LEWMAR®

A Lippert Components Company











Marine Equipment Guide

www.lewmar.com

















When Len Lewery started making Tufnol dinghy fittings back in 1946, not even his inventive mind could have foreseen that his small business would develop to become one of the leading marine equipment manufacturers in the world.

John Burton acquired Lewmar and embarked on a 20-year career, turning the company into a world leader in modern yacht equipment. Lewmar attacked the high-technology world of America's Cup racing, supplying the first AC winch package to Korura V in c.1966/68.

Through a series of acquisitions and mergers in the latter decades of the twentieth century, the Lewmar Range evolved to include rigging, windlass, steering, hatch and portlight. Innovations included the Wavegrip Jaw, which won the battle for the self-tailing winch market. Lewmar's distribution extended around the globe, and the expertise and success of the company won recognition with the attainment of three Queen's Awards.

Today Lewmar has transformed beyond recognition from the small company established by Len Lewery and Leslie Marsh in 1950. Yet the spirit of innovation and engineering excellence has remained constant. Today, Lewmar is the premier marine equipment supplier, designing, manufacturing, and distributing innovative, high-quality control solutions worldwide.

Manufacturing is located at two sites in the United Kingdom with sales offices in Europe and USA and a worldwide network of agents and distributors. Recent investments in sophisticated, state-of-the-art manufacturing equipment over the last few years has been undertaken to enable Lewmar to offer consistently the highest levels of quality in the industry.







With a portfolio of windlass, anchors, thrusters, hatches and portlights, glass & glazing, winches, hydraulics, hardware and steering systems, to suit every boat from the smallest day fisher to largest mega-yacht, Lewmar can supply a complete solution whatever your project and requirements.

Quality remains at the heart of everything we do. In these days of ever increasing offshore sourcing, this is just one sign of our total commitment to providing superior products to all our customers.

LEWMAR

UK & International Distribution

Southmoor Lane Havant Hampshire PO9 IJJ UK

Tel: +44 (0)23 9247 1841 Email: info@lewmar.com Tech Support: techsupport@lewmar.com

www.lewmar.com

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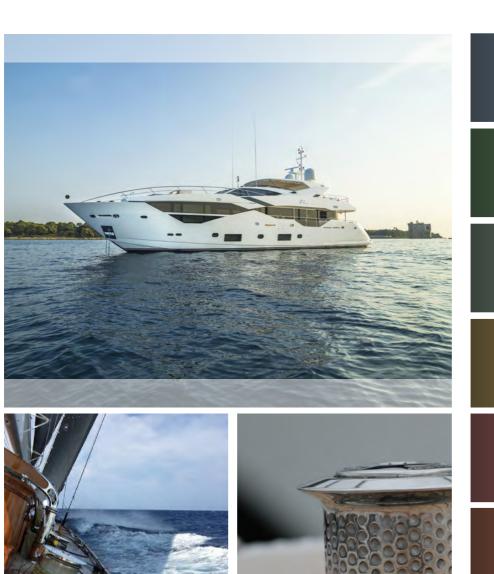
USA

351 New Whitfield Street Guilford, CT 06437 USA

Tel: +| 203 458 6200 Email: info@lewmar.com

Tech Support: ustechsupport@lewmar.com









2. Anchoring Pages 79-100



3.Thrusters Pages 101 - 130



4. Hatches & Portlights



Pages 131 - 187



5. Glass Pages 188 - 212



6.Winches Pages 213 - 268



7. Hydraulics



Pages 269 - 282

HE STEEL



8. Hardware Pages 283 - 354



9. Steering Pages 355 - 395







Since acquiring Simpson Lawrence many years ago, Lewmar has built a wealth of design and engineering knowledge and experience in anchoring systems. With ever-smaller fitting anchor winches, Lewmar has a wide product offering for boats between 18ft – 250ft. Using hard wearing, corrosion resistant materials on deck, coupled with powerful, under-deck motor solutions, our latest windlass designs focus on ease of use and reliability.

The Lewmar Windlass Range



















Page 9 VX Series

- New generation of vertical windlasses
- Utilises patented hybrid polymer gypsy
- Available in horizontal or in-line motorgearbox configurations

Page 20 CPX Series

- Alloy construction provides strength in a lightweight format
- Design based on proven V Series

Page 24 V Series

- Flagship vertical windlass range
- Stainless Steel construction
- For boats up to 240ft

Page 40 HX1 Windlass

- New generation horizontal windlass
- Featuring patented hybrid polymer gypsy
- Powerful gearbox provides superior performance

Page 42 Pro-Series Windlass

- Stainless body provides looks and strength Small footprint saves space
- Available with freefall attachment

Page 45 H Series

- Painted alloy body
- Powerful motor-gearbox
- Available in gypsy only, or gypsy-drum configurations

Page 46 C Series Capstan

- Stainless Steel construction complements V Series windlass
- Sleek and unobtrusive, it blends well into the stern area

Page 48 Captive Reel Windlass

- Innovative design provides discreet line storage solution
- · Designed for rode only

Page 49 Stern Windlass

- Rode windlass based on proven freefall design
- Designed to be hidden within the transom for bow-to mooring

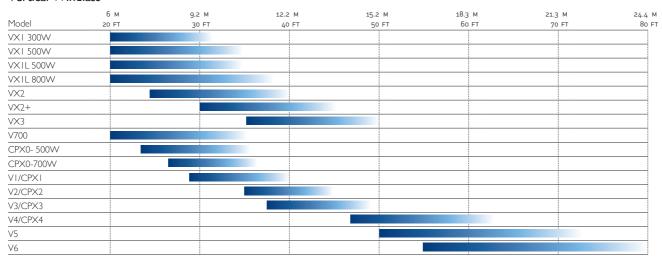
Page 50 Tender Garage Winch

- Drum-only design for taking in and storing tender retrieval line
 - Elegant solution for installation in tender garage

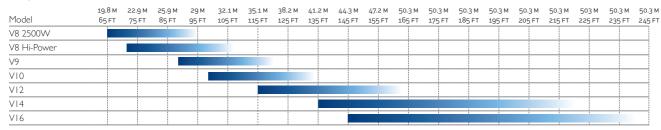
Whether you own a small fishing boat or a 160ft cruiser, Lewmar has a windlass designed to fit your exact needs. Integral to the designs are high-quality stainless steel components, providing longevity and reliability. Both our vertical and horizontal designs are sleek and attractive to complement your boat.

Vertical Windlass

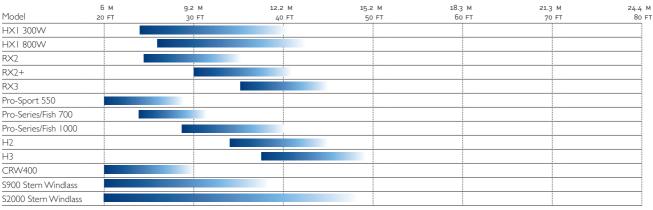
BOAT LENGTH OVERALL



Large Vertical Windlass

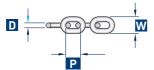


Horizontal Windlass



Many parameters have to be taken into account when selecting a windlass, such as displacement, windage, anchor weight etc. In the above chart the boat length corresponds to a vessel with average displacement. If your vessel is of heavy displacement, please consider using a larger windlass model. Lighter shading represents the upper limit of the model. If in doubt, move up a model.





| | | 6 MM DIN 766 | 6 MM ISO 4565 | 1/4" ACCO ISO G43 (G4) | 7MM DIN 766 | 1/4" ACCO BBB (3B) | 8MM DIN 766 | 8 MM ISO 4565 | 5/16" ACCO ISO 643 (64) | LEWMAR 9.5MM 640 | 3/8" CAMBELL S4 | 10MM ISO 4565 | 3/8" CAMPBELL S3 | 10MM DIN 766 | 3/8" ACCO ISO G43 (G4) | 11MM SHORT LINK | 11MM DIN766 | 7/16" ACCO ISO 643 (64) | LEWMAR 12MM G30/G40 12MM SHORT LINK | 13MM DIN 766 | 1/2" ACCO ISO G43 (G4) | LEWMAR 14MM G30/640 14 MM SHORT LINK | 14MM DIN 766 | 14MM STUDLINK | 16MM SHORT LINK | 16MM DIN 766 |
|----|------|--------------|---------------|------------------------|-------------|--------------------|-------------|---------------|-------------------------|------------------|-----------------|---------------|------------------|--------------|------------------------|-----------------|-------------|-------------------------|--|--------------|------------------------|---|--------------|---------------|-----------------|--------------|
| D | ММ | 6 | 6 | 7 | 7 | 7.14 | 8 | 8 | 8.4 | 9.5 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11.8 | 12 | 13 | 13.2 | 14 | 14 | 14 | 16 | 16 |
| U | INCH | 0.236 | 0.236 | 0.276 | 0.276 | 0.281 | 0.315 | 0.315 | 0.329 | 0.374 | 0.39 | 0.394 | 0.37 | 0.394 | 0.394 | 0.433 | 0.433 | 0.464 | 0.472 | 0.512 | 0.520 | 0.551 | 0.551 | 0.551 | 0.630 | 0.630 |
| D | MM | 18.5 | 18 | 21.3 | 22 | 22.1 | 24 | 24 | 26.2 | 31.5 | 29 | 30 | 35 | 28 | 31 | 33 | 31 | 35.5 | 36 | 36 | 40.4 | 42 | 41 | 56 | 48 | 45 |
| F | INCH | 0.728 | 0.709 | 0.840 | 0.866 | 0.870 | 0.945 | 0.945 | 1.030 | 1.240 | 1.15 | 1.181 | 1.36 | 1.102 | 1.220 | 1.299 | 1.22 | 1.4 | 1.417 | 1.417 | 1.591 | 1.654 | 1.614 | 2.205 | 1.890 | 1.772 |
| W | MM | 20.4 | 21.6 | 24.4 | 23.8 | 25.2 | 27.2 | 28.8 | 29.7 | 31.6 | 35 | 36 | 34 | 36 | 35 | 39 | 40 | 40.1 | 40.5 | 47 | 45.7 | 49 | 50 | 50.4 | 56 | 58 |
| VV | INCH | 0.803 | 0.85 | 0.962 | 0.937 | 0.992 | 1.07 | 1.134 | 1.168 | 1.244 | 1.3 | 1.417 | 1.31 | 1.417 | 1.378 | 1.535 | 1.575 | 1.578 | 1.594 | 1.850 | 1.799 | 1.929 | 1.969 | 1.984 | 2.205 | 2.283 |

How to choose the right windlass for your boat

There are three main considerations when selecting the correct windlass for your boat:

1 What size windlass would best suit my boat?

Use our windlass selection chart, found on page 6/7, to determine the general size of the windlass to be fitted to your boat by using length and displacement.

How long is the anchor rode I wish to use, and will the windlass put the entire rode into my locker?

Examine the depth of the anchor locker to determine the fall that is available.

The fall is the vertical distance between the top of the anchor locker and the top of the anchor rode when the entire rode is completely stored inside.

The windlass is a retrieval device. The windlass retrieves the anchor and rode.

The windlass does not stow the rode inside the anchor locker; gravity stows the rode.

You must know how much rode will fit into your locker by gravity. There has to be a free and clear area under the hawse pipe for the incoming rode. Otherwise, you will have to comb the rode back, keeping a clear and free space under the hawse pipe while retrieving the anchor.

A windlass is not a high-load bearing device. When at anchor your rode should be secured to a chain stopper, a cleat or other mooring point on the bow.

3 How much pulling power should my windlass have?

Having selected a vertical or horizontal windlass and determined the size required using the chart on page 6, you can cross-check by using the following formula:

Total weight of ground tackle (anchor and rode) x4**

Pulling power required by the windlass

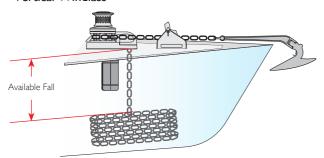
* Use x4 for all Horizontal windlass and Vertical windlass up to V5

[™] Use x2 for V6 Vertical Windlass and above

Working Load, designed to allow prolonged anchor laying and retrieving

Please note this is an indication only. If in doubt please contact your Lewmar representative.

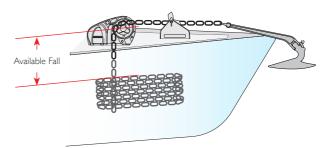
Vertical Windlass



Vertical Windlass Key Features

- More of the unit is hidden below deck
- Suitable for large anchor lockers
- Anchor rode makes a 180° wrap around the gypsy providing more security
- Minimum fall of 406mm (18") is recommended in order to have enough gravity to pull the rode down into the locker

Horizontal Windlass



Horizontal Windlass Key Features

- Most of the windlass unit is on the deck
- Easy installation
- Good for boats with small anchor lockers
- Anchor rode enters the gypsy, makes a 90° turn and feeds into the anchor locker
- Minimum fall of 304mm (12") is recommended in order to have enough gravity to pull the rode down into the locker

Note

The windlasses do not stow the anchor rode in the anchor locker. Gravity stows the rode in the anchor locker.

From time to time the pile of rode may have to be evacuated from under the windlasses hawse pipe entrance to make room for the remaining rode.

Windlass and anchor operation basic safety Always

- Always tie off anchor rode to a strong point while at anchor
- Always secure anchor rode/anchor when underway
- Always look before deploying your anchor
- Always motor up to anchor while retrieving
- Always shut off circuit breaker when working on windlass
- · Always shut off circuit breaker when windlass is not in use
- Always read the manual and follow safety instructions and warnings.

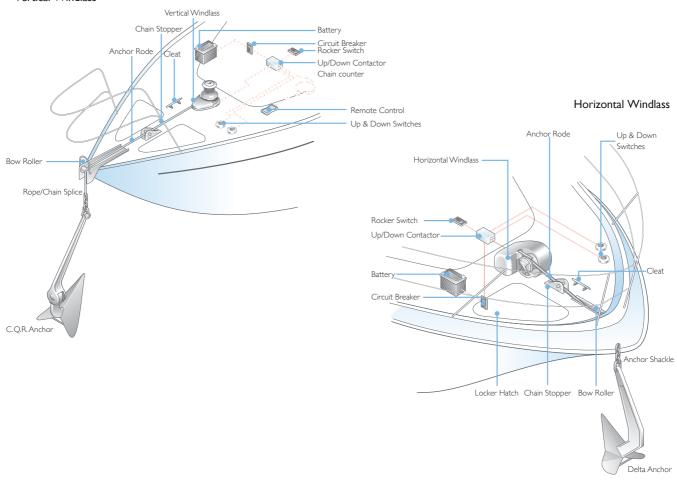
Never

- Never allow your windlass to hold the boat while at anchor
- Never use your windlass to pull or tow boat
- Never use your windlass to lift a person
- Never stick fingers in or around gypsy while operating
- Never allow loose clothing and hair to come close to windlass when operating

Windlass & Anchoring Know-How

Please see your owner's manual for complete installation diagrams.

Vertical Windlass



Specify your Windlass

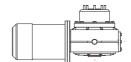
1 Deck Unit



Gypsy and drum

2 Motor Gearbox

Electric/hydraulic specification



3 Gypsy

· Chain specification



Switch kit and accessories

4 Circuit breaker



5 Contactor/ control box



6 Switch and accessories



Optional accessories

• A range of optional accessories are available for each model. Refer to the specific windlass model pages.



Hybrid Polymer Gypsy

Lewmar has developed a patented Hybrid Gypsy, which uses a metal anchor warp core together with a polymer chain wheel. This combination offers a lightweight and quiet solution that ensures a smooth operation, while still offering the long-life durability of a traditional metal gypsy and pulling power. The Lewmar patented Hybrid Gypsy offers a 15% reduction in weight, is 5% stronger and offers an endurance life comparable to all metal gypsies. The Hybrid Gypsy's greatest attribute is the quietness when operating. The composite surface means there is no grating sound from metal-on-metal contact.

Nickel-Plated Brass Core

A nickel-plated brass core is used for increased rope grip, utilising the proven design from our full windlass range.

Hybrid Polymer Composite

Our engineering team are continually exploring, evaluating and testing new materials to ensure we offer cutting-edge products that are lighter, stronger and optimised for best performance.

Chain Counter Magnet

Every Hybrid Gypsy is factory-fitted with a chain counter magnet, compatible with our full range of AutoAnchor products.

Testing

Our endurance life test of the Hybrid Gypsy consisted of 6000 operations/300Km at varying load over a test period of three weeks to represent five years of use. One hybrid and one traditional gypsy have acted against each other at varying loads and line speeds, using a loop of 8mm chain. Using the test tank, test equipment was subjected to varying weather conditions.



| GYPSY NUMBER | GYPSY | CHAIN DESCRIPTION | ROPE DES | CRIPTION IN | ROPE TYPE |
|--------------|--------------------|--|----------|----------------|----------------------|
| 68100034 | VX1 - 6/7MM 1/4" | 6мм DIN766, 6мм IS04565, 7мм DIN766, 7мм IS04565, 1/4" ACCO ISO G43 (G4)1/4" ACCO BBB (3B) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68100033 | VX1 - 8MM 5/16" | 8MM DIN766, 8MM ISO4565, 5/16" ACCO ISO G43 (G4) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68120040 | VX2/3 - 6/7MM 1/4" | 6мм IS04565, 7мм DIN766, 1/4" ACCO ISO G43 (G4)1/4" ACCO BBB (3B) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68120041 | vx2/3 - 8мм 5/16" | 8MM DIN766, 8MM ISO4565, 5/16" ACCO ISO G43 (G4) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68120042 | VX2/3 - 10MM DIN | 10MM DIN766, 5/16" CAMPBELL S3, 3/8" CAMPBELL S4, 9.5MM G40 | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68120043 | VX2/3 - 10MM ISO | 10MM IS04565, 5/16" CAMPBELL S3, LEWMAR 9.5MM G40 | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68140009 | HX1 - 6/7MM 1/4" | 6мм DIN766, 6мм ISO4565, 7мм DIN766, 7мм ISO4565, 1/4" ACCO ISO G43 (G4)1/4" ACCO ВВВ (ЗВ) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |
| 68140010 | нх1 - 8мм 5/16" | 8MM DIN766, 8MM ISO4565, 5/16" ACCO ISO 643 (64) | 12 - 16 | 1/2 - 5/8 | 3-STRAND AND 8-PLAIT |





VXI Vertical Windlass

The VXI is the first in the new generation of windlasses from Lewmar. Using cutting-edge moulding techniques, Lewmar is able to offer new technologies to refine windlass design and improve noise levels. Taking the tough and elegant lines of the V series, Lewmar have strived to remove excess weight - replacing heavy materials with modern composites - while retaining strength. A new motor-gearbox package has created our most efficient and powerful windlass, optimised for top anchoring performance. This makes our VX range lighter, stronger and more efficient than any competitor on the market.

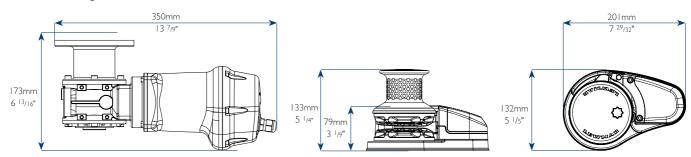
- The VXI offers a maximum pull of 675kg, for boats up to 40ft
- 2 Hybrid Gypsy options:
 6/7mm (1/4") & 8mm (5/16")
- 2 motor sizes: 300 & 500W
- Optimised motor-gearbox for enhanced performance
- Lightweight composite construction



VXI Specifications

| | | | | | | | NORMAL | | | | | |
|-------|-----|------|-----------|-----------|--------|---------|-----------------|--------------------|-------------|----|-------------|----|
| MODEL | MAX | PULL | WORKING I | OAD LIMIT | MAXLIN | E SPEED | CURRENT DRAW | CIRCUIT BREAKER | APPROX G | | APPROX G | |
| | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | KG | LB |
| 300W | 400 | 882 | 100 | 220 | 25 | 82 | 66 | 50 | 12.5 | 28 | 13.5 | 30 |
| 500W | 675 | 1488 | 169 | 373 | 25 | 82 | 126 | 70 | 12.5 | 28 | 13.5 | 30 |

Dimensions Diagram



VXI Features

Deck unit

The LewmarVX windlass range offers a new entry-level windlass product, giving the end user a stylish yet functional product at a competitive price point. Consisting of a cast aluminium core with composite outer and finished in a stainless steel pressing, giving the VXI its stylish design.

- Manual clutch release
- Drum option
- Stylish stainless steel and composite construction
- Same footprint as Lewmar VI model

IP67 Rated Motor Gearbox

This will be the first ingress protection (IP) cover that Lewmar has offered on a windlass of this size. The cover is standard on all the VX windlass range.

Features:

- Silicone sealant free assembly
- Orientation flexibility that can be set by the end user
- Self-certified to Ingress Protection level 67 and to (EN 60529)
- This new IP cover is not backwards compatible with any RMI40 gearbox and not available on the VI, CPX0 700w or CPXI windlasses.
- Motor sizes: 300W or 500W



| PART NUMBER | DESCRIPTION |
|-------------|--|
| 69100020 | VX1 GO DECK UNIT 6/7MM 1/4" ST/ST 300W |
| 69100021 | VX1 GO DECK UNIT 6/7MM 1/4" ST/ST 500W |
| 69100022 | VX1 GO DECK UNIT 8MM 5/16" ST/ST 300W |
| 69100023 | VX1 GO DECK UNIT 8MM 5/16" ST/ST 500W |
| 69100024 | VX1 GD DECK UNIT 6/7MM 1/4" ST/ST 300W |
| 69100025 | VX1 GD DECK UNIT 6/7MM 1/4" ST/ST 500W |
| 69100026 | VX1 GD DECK UNIT 8MM 5/16" ST/ST 300W |
| 69100027 | VX1 GD DECK UNIT 8MM 5/16" ST/ST 500W |

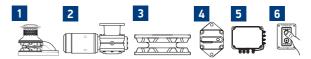
Standard windlass kit includes deck unit, motor gearbox, solenoid and gypsy



VXI Extended Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 69100030 | VX1 GO DECK UNIT 6/7MM 1/4" ST/ST 300W |
| 69100031 | VX1 GO DECK UNIT 6/7MM 1/4" ST/ST 500W |
| 69100032 | VX1 GO DECK UNIT 8MM 5/16" ST/ST 300W |
| 69100033 | VX1 GO DECK UNIT 8MM 5/16" ST/ST 500W |
| 69100034 | VX1 GD DECK UNIT 6/7MM 1/4" ST/ST 300W |
| 69100035 | VX1 GD DECK UNIT 6/7MM 1/4" ST/ST 500W |
| 69100036 | VX1 GD DECK UNIT 8MM 5/16" ST/ST 300W |
| 69100037 | VX1 GD DECK UNIT 8MM 5/16" ST/ST 500W |

Extended windlass kit includes deck unit, motor gearbox, solenoid, gypsy, rocker switch and circuit breaker



7 Optional Accessories

Deck Spacer Kits

Min. recommended deck thickness is 40mm. 15mm VX1 & VX2/3 deck spacer kit used for decks with a thickness of 10mm - 25mm.

| | PART NO. |
|---------|----------|
| VX1/2/3 | 66100143 |



Switch kit and accessories see page 52-60





VXIL Vertical Windlass

VXIL offers the same design features as the rest of the VX range, but with a compact in-line motor solution. The VXIL model is fitted with a refined motor and epicyclical gearbox combined with a small, compact and efficient motor. The VXIL is a great addition to our vertical windlass range, without compromising performance and freeing up space below deck.

The VXIL offers a maximum pull of 920kg, providing strong performance and robust design for boats up to 36ft.

- Manual clutch release
- Drum option
- Stylish stainless steel and composite construction
- 500W & 800W 12V motors available



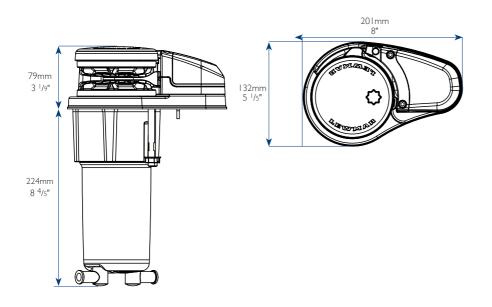
VXIL Specifications

| MODEL | MAX KG | PULL LB | WORKING I | LOAD LIMIT | MAX LIN | E SPEED FT/MIN | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APPROX G kg | | APPROX G KG | |
|-------|-----------|--------------|-----------|------------|---------|-------------------|---------------------------|--------------------|-------------------|-----|-------------------|----|
| | KG. | LB | KG. | LB | M/MIN | FI/MIN | AMP | AMP | KG | LBS | KG KG | LB |
| 500W | 650 | 1433 | 160 | 352 | 20 | 60 | 75 | 50 | 8 | 18 | 8.5 | 19 |
| 8oow | 920 | 2028 | 230 | 507 | 21 | 63 | 105 | 70 | 8 | 18 | 8.5 | 19 |

 $Windlass\ performance\ values\ are\ tested\ using\ -/+10\%\ 12\ voltage\ simulating\ the\ operation\ parameters\ of\ an\ installed\ battery\ system\ of\ a\ boat.$



Dimensions Diagram

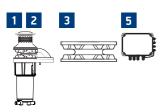




VXIL Standard Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|--------------------------------|
| 69100050 | VX1L GO 500 6/7MM 1/4" STD KIT |
| 69100051 | VX1L GO 800 6/7MM 1/4" STD KIT |
| 69100052 | VX1L GO 500 8MM 5/16" STD KIT |
| 69100053 | VX1L GO 800 8MM 5/16" STD KIT |
| 69100054 | VX1L GD 500 6/7MM 1/4" STD KIT |
| 69100055 | VX1L GD 800 6/7MM 1/4" STD KIT |
| 69100056 | VX1L GD 500 8MM 5/16" STD KIT |
| 69100057 | VX1L GD 800 8MM 5/16" STD KIT |

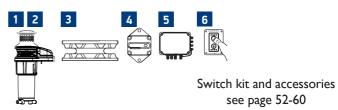
 $\ensuremath{\mathsf{VXIL}}$ Standard windlass kit includes deck unit and inline motor gearbox, solenoid and gypsy



VXIL Extended Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------------|
| 69100060 | VX1L GO 500 6/7MM 1/4" EXTD KIT |
| 69100061 | VX1L GO 8006/7MM 1/4" EXTD KIT |
| 69100062 | VX1L GO 500 8MM 5/16" EXTD KIT |
| 69100063 | VX1L G0 800 8MM 5/16" EXTD KIT |
| 69100064 | VX1L GD 500 6/7MM 1/4" EXTD KIT |
| 69100065 | VX1L GD 800 6/7MM 1/4" EXTD KIT |
| 69100066 | VX1L GD 500 8MM 5/16" EXTD KIT |
| 69100067 | VX1L GD 800 8MM 5/16" EXTD KIT |

Extended windlass kit includes deck unit and inline motor gearbox, solenoid, rocker switch, circuit breaker and gypsy





VX2/3 Vertical Windlass

Optimised for boats up to 48ft, the VX2/3 offers a maximum pull of 1175kg showing great performance and value. Built from the same principles of strength and durability as the V series, the VX2/3 units feature the same level of weight and performance optimisation as the VX1. The Hybrid Gypsy offers extended endurance under all conditions.

- 4 motor options: 700, 900, 1000 & 1500W
- IP67-rated motor housing as standard
- Maximum pull of 1175kg for boats up to 48ft
- 2 hybrid gypsy options: 6/7mm (1/4')' and 8mm (5/16")

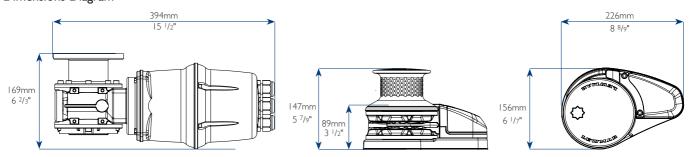


VX2/3 Specifications

| MODEL | MOTOR POWER | VOLTAGE | MAX | PULL | WORKING L | _OAD LIMIT | MAX LIN | E SPEED | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APPROX G | | APPROX G | |
|-------|----------------|---------|------|------|-----------|------------|---------|---------|---------------------------|--------------------|-------------|----|-------------|----|
| | | | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | KG | LB |
| VX2 | 700W | 12V | 850 | 1874 | 213 | 470 | 29 | 95 | 120 | 90 | 13.9 | 31 | 14.9 | 33 |
| VX2 | goow | 24V | 850 | 1874 | 213 | 470 | 29 | 95 | 60 | 50 | 13.9 | 31 | 14.9 | 33 |
| VX2+ | 1000W | 12V | 1025 | 2260 | 257 | 567 | 39 | 128 | 131 | 110 | 16.1 | 35 | 17.1 | 38 |
| VX2+ | 1000W | 24V | 1025 | 2260 | 257 | 567 | 39 | 128 | 74 | 90 | 16.1 | 35 | 17.1 | 38 |
| AX3 | 1500W | 12V | 1175 | 2590 | 294 | 648 | 40 | 131 | 132 | 110 | 16.1 | 35 | 17.1 | 38 |
| VX3 | 1500W | 24V | 1175 | 2590 | 294 | 648 | 40 | 131 | 70 | 90 | 16.1 | 35 | 17.1 | 38 |

Windlass performance values are tested using -/+10% 12 voltage simulating the operation parameters of an installed battery system of a boat

Dimensions Diagram



VX2 Standard Windlass Kits

VX2+ Standard Windlass Kits

VX3 Standard Windlass Kits

| PART NUMBER | DESCRIPTION | PART NUMBER | DESCRIPTION | PART NUMBER | DESCRIPTION |
|-------------|------------------------------------|-------------|-------------------------------------|-------------|------------------------------------|
| 69120020 | VX2 GO 6/7MM 1/4" GYPSY 12V | 69120030 | VX2+ G0 6/7MM 1/4" GYPSY 12V | 69120040 | VX3 GO 6/7MM 1/4" GYPSY 12V |
| 69120021 | VX2 GO 6/7MM 1/4" GYPSY 24V | 69120031 | VX2+ G0 6/7MM 1/4" GYPSY 24V | 69120041 | VX3 GO 6/7MM 1/4" GYPSY 24V |
| 69120022 | VX2 GO 8MM 5/16" GYPSY 12V | 69120032 | VX2+ GO 8MM 5/16" GYPSY 12V | 69120042 | VX3 GO 8MM 5/16" GYPSY 12V |
| 69120023 | VX2 GO 8MM 5/16" GYPSY 24V | 69120033 | VX2+ GO 8MM 5/16" GYPSY 24V | 69120043 | VX3 GO 8MM 5/16" GYPSY 24V |
| 69120024 | VX2 GO 10DIN 5/16 / 3/8" GYPSY 12V | 69120034 | VX2+ GO 10DIN 5/16 / 3/8" GYPSY 12V | 69120044 | VX3 GO 10DIN 5/16 / 3/8" GYPSY 12V |
| 69120025 | VX2 GO 10DIN 5/16 / 3/8" GYPSY 24V | 69120035 | VX2+ GO 10DIN 5/16 / 3/8" GYPSY 24V | 69120045 | VX3 GO 10DIN 5/16 / 3/8" GYPSY 24V |
| 69120026 | VX2 G0 10IS0 5/16" GYPSY 12V | 69120036 | VX2+ GO 10ISO 5/16" GYPSY 12V | 69120046 | VX3 GO 10ISO 5/16" GYPSY 12V |
| 69120027 | VX2 GO 10ISO 5/16" GYPSY 24V | 69120037 | VX2+ GO 10ISO 5/16" GYPSY 24V | 69120047 | VX3 GO 10ISO 5/16" GYPSY 24V |
| 69120050 | VX2 GD 6/7MM 1/4" GYPSY 12V | 69120060 | VX2+ GD 6/7MM 1/4" GYPSY 12V | 69120070 | VX3 GD 6/7MM 1/4" GYPSY 12V |
| 69120051 | VX2 GD 6/7MM 1/4" GYPSY 24V | 69120061 | VX2+ GD 6/7MM 1/4" GYPSY 24V | 69120071 | VX3 GD 6/7MM 1/4" GYPSY 24V |
| 69120052 | VX2 GD 8MM 5/16" GYPSY 12V | 69120062 | VX2+ GD 8MM 5/16" GYPSY 12V | 69120072 | VX3 GD 8MM 5/16" GYPSY 12V |
| 69120053 | VX2 GD 8MM 5/16" GYPSY 24V | 69120063 | VX2+ GD 8MM 5/16" GYPSY 24V | 69120073 | VX3 GD 8MM 5/16" GYPSY 24V |
| 69120054 | VX2 GD 10DIN 5/16 / 3/8" GYPSY 12V | 69120064 | VX2+ GD 10DIN 5/16 / 3/8" GYPSY 12V | 69120074 | VX3 GD 10DIN 5/16 / 3/8" GYPSY 12V |
| 69120055 | VX2 GD 10DIN 5/16 / 3/8" GYPSY 24V | 69120065 | VX2+ GD 10DIN 5/16 / 3/8" GYPSY 24V | 69120075 | VX3 GD 10DIN 5/16 / 3/8" GYPSY 24V |
| 69120056 | VX2 GD 10ISO 5/16" GYPSY 12V | 69120066 | VX2+ GD 10ISO 5/16" GYPSY 12V | 69120076 | VX3 GD 10ISO 5/16" GYPSY 12V |
| 69120057 | VX2 GD 10ISO 5/16" GYPSY 24V | 69120067 | VX2+ GD 10ISO 5/16" GYPSY 24V | 69120077 | VX3 GD 10ISO 5/16" GYPSY 24V |
| | | | | | |

VX2 Extended Windlass Kits

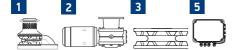
VX2+ Extended Windlass Kits

VX3 Extended Windlass Kits

| PART NUMBER | DESCRIPTION | PART NUMBER | DESCRIPTION | PART NUMBER | DESCRIPTION |
|-------------|------------------------------------|-------------|-------------------------------------|-------------|------------------------------------|
| 69120080 | VX2 GO 6/7MM 1/4" GYPSY 12V | 69120090 | VX2+ G0 6/7MM 1/4" GYPSY 12V | 69120100 | VX3 GO 6/7MM 1/4" GYPSY 12V |
| 69120081 | VX2 GO 6/7MM 1/4" GYPSY 24V | 69120091 | VX2+ G0 6/7MM 1/4" GYPSY 24V | 69120101 | VX3 GO 6/7MM 1/4" GYPSY 24V |
| 69120082 | VX2 GO 8MM 5/16" GYPSY 12V | 69120092 | VX2+ GO 8MM 5/16" GYPSY 12V | 69120102 | VX3 GO 8MM 5/16" GYPSY 12V |
| 69120083 | VX2 GO 8MM 5/16" GYPSY 24V | 69120093 | VX2+ G0 8MM 5/16" GYPSY 24V | 69120103 | VX3 GO 8MM 5/16" GYPSY 24V |
| 69120084 | VX2 GO 10DIN 5/16 / 3/8" GYPSY 12V | 69120094 | VX2+ GO 10DIN 5/16 / 3/8" GYPSY 12V | 69120104 | VX3 GO 10DIN 5/16 / 3/8" GYPSY 12V |
| 69120085 | VX2 GO 10DIN 5/16 / 3/8" GYPSY 24V | 69120095 | VX2+ GO 10DIN 5/16 / 3/8" GYPSY 24V | 69120105 | VX3 GO 10DIN 5/16 / 3/8" GYPSY 24V |
| 69120086 | VX2 GO 10ISO 5/16" GYPSY 12V | 69120096 | VX2+ G0 10IS0 5/16" GYPSY 12V | 69120106 | VX3 GO 10ISO 5/16" GYPSY 12V |
| 69120087 | VX2 GO 10ISO 5/16" GYPSY 24V | 69120097 | VX2+ G0 10IS0 5/16" GYPSY 24V | 69120107 | VX3 GO 10ISO 5/16" GYPSY 24V |
| 69120110 | VX2 GD 6/7MM 1/4" GYPSY 12V | 69120120 | VX2+ GD 6/7MM 1/4" GYPSY 12V | 69120130 | VX3 GD 6/7MM 1/4" GYPSY 12V |
| 69120111 | VX2 GD 6/7MM 1/4" GYPSY 24V | 69120121 | VX2+ GD 6/7MM 1/4" GYPSY 24V | 69120131 | VX3 GD 6/7MM 1/4" GYPSY 24V |
| 69120112 | VX2 GD 8MM 5/16" GYPSY 12V | 69120122 | VX2+ GD 8MM 5/16" GYPSY 12V | 69120132 | VX3 GD 8MM 5/16" GYPSY 12V |
| 69120113 | VX2 GD 8MM 5/16" GYPSY 24V | 69120123 | VX2+ GD 8MM 5/16" GYPSY 24V | 69120133 | VX3 GD 8MM 5/16" GYPSY 24V |
| 69120114 | VX2 GD 10DIN 5/16 / 3/8" GYPSY 12V | 69120124 | VX2+ GD 10DIN 5/16 / 3/8" GYPSY 12V | 69120134 | VX3 GD 10DIN 5/16 / 3/8" GYPSY 12V |
| 69120115 | VX2 GD 10DIN 5/16 / 3/8" GYPSY 24V | 69120125 | VX2+ GD 10DIN 5/16 / 3/8" GYPSY 24V | 69120135 | VX3 GD 10DIN 5/16 / 3/8" GYPSY 24V |
| 69120116 | VX2 GD 10ISO 5/16" GYPSY 12V | 69120126 | VX2+ GD 10IS0 5/16" GYPSY 12V | 69120136 | VX3 GD 10ISO 5/16" GYPSY 12V |
| 69120117 | VX2 GD 10ISO 5/16" GYPSY 24V | 69120127 | VX2+GD 10IS0 5/16" GYPSY 24V | 69120137 | VX3 GD 10ISO 5/16" GYPSY 24V |

Standard windlass kit includes deck unit, motor gearbox, solenoid and gypsy

Extended windlass kit includes deck unit, motor gearbox, solenoid, gypsy, rocker switch and circuit breaker





Switch kit and accessories see page 52-60

7 Optional Accessories

Deck Spacer Kits

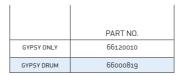
Min. recommended deck thickness for installation is 40mm. I5mm VXI &VX2/3 deck spacer kit used for decks with a thickness of I0mm - 25mm.

| | PART NO. |
|---------|----------|
| VX1/2/3 | 66100143 |

Manual Recovery Kits

Available for VX2/3

Kit compatible with gypsy only & gypsy drum







RX Horizontal Windlass

The RX offers a maximum pull of 775kg, offering great performance and value for the 30ft to 48ft market range. Designed as a discreet and compact unit, the RX is intended for use in confined chain lockers, where installation contraints prevent the use of a conventional horizontal unit.

- 4 hybrid gypsy options: 6/7mm (1/4"), 8mm (5/16"), 10mm DIN and 10mm ISO
- Stylish stainless steel and composite construction
- Motor gearbox outside sperate to the chain locker to prevent water ingress
- IP67 Ingress protection as standard
- Motor gearbox can be rotated for 360° mounting



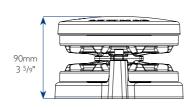
RX Specifications

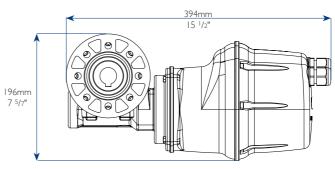
| MODEL | MOTOR EL POWER VOLTAGE MAX PULL WORKING LOAD LIMIT KG LB KG LB | | WORKING LOAD LIMIT MAX LINE SPEED DRAW BREAKER | | С | | APPROX WEIGHT GO KG LB | | APPROX G | D | | | | |
|-------|---|-----|--|------|-------|-----|------------------------|---------|-------------|-----|------|----|------|----|
| | | | KG | LB | KG KG | LB | M/MIN | F I/MIN | AMP | AMP | KG | LB | KG | LB |
| RX2 | 700W | 12V | 560 | 1235 | 140 | 310 | 29 | 95 | 120 | 90 | 12.9 | 28 | 13.9 | 30 |
| RX2 | goow | 24V | 560 | 1235 | 140 | 310 | 29 | 95 | 60 | 50 | 12.9 | 28 | 13.9 | 30 |
| RX2+ | 1000W | 12V | 675 | 1490 | 170 | 375 | 39 | 128 | 131 | 110 | 15.1 | 32 | 16.1 | 35 |
| RX2+ | 1000W | 24V | 675 | 1490 | 170 | 375 | 39 | 128 | 74 | 90 | 15.1 | 32 | 16.1 | 35 |
| RX3 | 1500W | 12V | 775 | 1710 | 195 | 427 | 40 | 131 | 132 | 110 | 15.1 | 32 | 16.1 | 35 |
| RX3 | 1500W | 24V | 775 | 1710 | 195 | 427 | 40 | 131 | 70 | 90 | 15.1 | 32 | 16.1 | 35 |

Windlass performance values are tested using -/+10% 12 voltage simulating the operation parameters of an installed battery system of a boat



Dimensions Diagram





RX Standard Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|------------------------------|
| 69120140 | RX2 GO 6/7MM 12V STD KIT |
| 69120141 | RX2 GO 6/7MM 24V STD KIT |
| 69120142 | RX2 GO 8MM 12V STD KIT |
| 69120143 | RX2 GO 8MM 24V STD KIT |
| 69120144 | RX2 GO 10MM DIN 12V STD KIT |
| 69120145 | RX2 GO 10MM DIN 24V STD KIT |
| 69120146 | RX2 GO 10MM ISO 12V STD KIT |
| 69120147 | RX2 GO 10MM ISO 24V STD KIT |
| 69120148 | RX2+ GO 6/7MM 12V STD KIT |
| 69120149 | RX2+ GO 6/7MM 24V STD KIT |
| 69120150 | RX2+ GO 8MM 12V STD KIT |
| 69120151 | RX2+ GO 8MM 24V STD KIT |
| 69120152 | RX2+ GO 10MM DIN 12V STD KIT |
| 69120153 | RX2+ GO 10MM DIN 24V STD KIT |
| 69120154 | RX2+ GO 10MM ISO 12V STD KIT |
| 69120155 | RX2+ GO 10MM ISO 24V STD KIT |
| 69120156 | RX3 GO 6/7MM 12V STD KIT |
| 69120157 | RX3 GO 6/7MM 24V STD KIT |
| 69120158 | RX3 GO 8MM 12V STD KIT |
| 69120159 | RX3 GO 8MM 24V STD KIT |
| 69120160 | RX3 GO 10MM DIN 12V STD KIT |
| 69120161 | RX3 GO 10MM DIN 24V STD KIT |
| 69120162 | RX3 GO 10MM ISO 12V STD KIT |
| 69120163 | RX3 GO 10MM ISO 24V STD KIT |

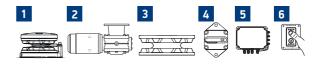
Basic windlass kit includes deck unit, motor gearbox, solenoid and gypsy $\,$



RX Extended Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|-------------------------------|
| 69120190 | RX2 GO 6/7MM 12V EXTD KIT |
| 69120191 | RX2 GO 6/7MM 24V EXTD KIT |
| 69120192 | RX2 GO 8MM 12V EXTD KIT |
| 69120193 | RX2 GO 8MM 24V EXTD KIT |
| 69120194 | RX2 GO 10MM DIN 12V EXTD KIT |
| 69120195 | RX2 GO 10MM DIN 24V EXTD KIT |
| 69120196 | RX2 GO 10MM ISO 12V EXTD KIT |
| 69120197 | RX2 GO 10MM ISO 24V EXTD KIT |
| 69120198 | RX2+ GO 6/7MM 12V EXTD KIT |
| 69120199 | RX2+ GO 6/7MM 24V EXTD KIT |
| 69120200 | RX2+ GO 8MM 12V EXTD KIT |
| 69120201 | RX2+ GO 8MM 24V EXTD KIT |
| 69120202 | RX2+ GO 10MM DIN 12V EXTD KIT |
| 69120203 | RX2+ GO 10MM DIN 24V EXTD KIT |
| 69120204 | RX2+ GO 10MM ISO 12V EXTD KIT |
| 69120205 | RX2+ GO 10MM ISO 24V EXTD KIT |
| 69120206 | RX3 GO 6/7MM 12V EXTD KIT |
| 69120207 | RX3 GO 6/7MM 24V EXTD KIT |
| 69120208 | RX3 GO 8MM 12V EXTD KIT |
| 69120209 | RX3 GO 8MM 24V EXTD KIT |
| 69120210 | RX3 GO 10MM DIN 12V EXTD KIT |
| 69120211 | RX3 GO 10MM DIN 24V EXTD KIT |
| 69120212 | RX3 GO 10MM ISO 12V EXTD KIT |
| 69120213 | RX3 GO 10MM ISO 24V EXTD KIT |

Extended windlass kit includes deck unit, motor gearbox, solenoid, gypsy, rocker switch and circuit breaker





VX Capstan

VX Captstan offers the same design features as the VXIL windlass, but in a capstan. The VX Capstan model is fitted with an in-line motor and epicyclical gearbox which combines with a small, compact and efficient motor.

The VX Capstan is a great addition to our capstan range, without compromising performance and freeing up space below decks.

- IP67 rated motor housing as standard.
- Manual clutch release
- Drum only
- Stylish stainless steel and composite construction
- 800W 12v motor



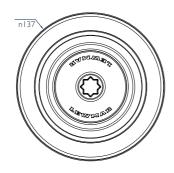
VX Capstan Specifications

| MODEL | MOTOR POWER | VOLTAGE | MAX | PULL | WORKING L | _OAD LIMIT | MAX LIN | E SPEED | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APPROX | WEIGHT |
|-------|----------------|---------|-----|------|-----------|------------|---------|---------|---------------------------|--------------------|--------|--------|
| | | | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB |
| VXC | 800W | 12 | 700 | 1543 | 175 | 385 | 21 | 63 | 58 | 70 | 7 | 15 |

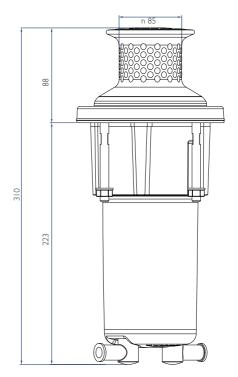
Windlass performance values are tested using -/+10% 12 voltage simulating the operation parameters of an installed battery system of a boat



Dimensions Diagram







VX Standard Capstan Kits

| PART NUMBER | DESCRIPTION |
|-------------|-----------------------------|
| 69100069 | VX CAPSTAN 12V 800W STD KIT |

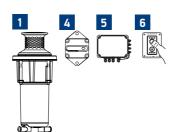
Basic windlass kit includes deck unit with motor gearbox and solenoid



VX Extended Capstan Kits

| PART NUMBER | DESCRIPTION |
|-------------|------------------------------|
| 69100068 | VX CAPSTAN 12V 800W EXTD KIT |

Extended windlass kit includes deck unit with motor gearbox, solenoid, rocker switch and circuit breaker $\,$



Switch kit and accessories see page 52-60



CPX0 Vertical Windlass

Lewmar's CPX vertical windlass range complements the current V Range. A lightweight alloy alternative, the CPX range uses quality materials throughout - hard-anodised aluminum for the base and cast stainless steel for the gypsy top cap and chain pipe cover. Precision-machined worm-wheel gearbox architecture ensures strength and performance.

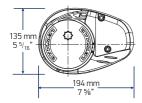
- Lightweight design
- Dual chain gypsy
- 500W or 700W motors
- Highly reliable gearbox design

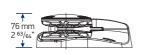


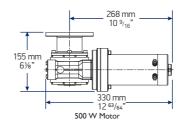
CPX0 Specifications

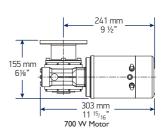
| MODEL | MAX | PULL | WORKING I | _OAD LIMIT | MAX LIN | E SPEED | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APP W GYPSY | | |
|-----------------|-----|------|-----------|------------|---------|---------|---------------------------|--------------------|----------------|------|--|
| | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | |
| CPX0 - 500W/12V | 410 | 900 | 103 | 226 | 14 | 46 | 75 | 70 | 9.5 | 20.9 | |
| CPX0 - 700W/12V | 600 | 1320 | 150 | 330 | 15.5 | 51 | 105 | 90 | 7.4 | 16.4 | |

Dimensions Diagram









CPX0 Standard Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|---|
| 66910422 | 500W 6MM-7MM-1/4" WITH CHAIN COUNTER SENSOR |
| 66910423 | 500W 6MM-7MM-1/4" NO SENSOR |
| 66910424 | 500W 8MM-5/16" WITH CHAIN COUNTER SENSOR |
| 66910425 | 500W 8MM-5/16" NO SENSOR |
| 66910426 | 700W 6MM-7MM-1/4" WITH CHAIN COUNTER SENSOR |
| 66910427 | 700W 6MM-7MM-1/4" NO SENSOR |
| 66910428 | 700W 8MM-5/16" WITH CHAIN COUNTER SENSOR |
| 66910429 | 700W 8MM-5/16" NO SENSOR |

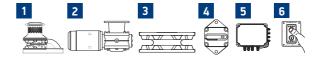
Standard windlass kit includes deck unit, motor gearbox, solenoid and gypsy



CPX0 Extended Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 66910437 | 500W 6MM-7MM-1/4" WITH CHAIN COUNTER SENSOR AND SWITCH KIT |
| 66910438 | 500W 8MM-5/16" WITH CHAIN COUNTER SENSOR AND SWITCH KIT |
| 66910439 | 700W 6MM-7MM-1/4" WITH CHAIN COUNTER SENSOR AND SWITCH KIT |
| 66910440 | 700W 8MM-5/16" WITH CHAIN COUNTER SENSOR AND SWITCH KIT |

Extended windlass kit includes deck unit, motor gearbox, solenoid, gypsy, rocker switch and circuit breaker $\,$





CPX 1/2/3/4/5 Vertical Windlass

As a lightweight and robust windlass solution, the CPX performs to its maximum potential. Based on the design of the V series, the use of alloy components reduces weight by 15% without affecting performance. Care has been taken in the choice of materials throughout the deck unit and motor-gearbox to ensure longevity and durability.

- 15% lighter than comparable all-stainless windlass
- New architecture with reduced parts
- Straightforward to service
- · Highly reliable, lightweight, high-performance windlass
- IP68 motor gearbox available on request







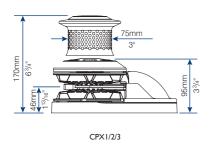
CPX Gypsy/Drum

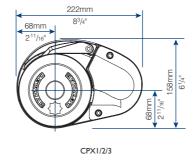
CPX I/2/3/4 Specifications

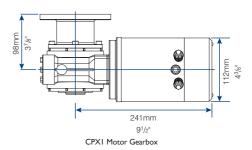
| MODEL | MOTOR POWER | MAX PULL | | WORKING LOAD LIMIT | | MAX LINE SPEED | | NORMAL CURRENT DRAW | CIRCUIT BREAKER | | | APP WEIGHT GYPSY/DRUM | |
|----------|----------------|----------|------|--------------------|-----|----------------|--------|---------------------------|--------------------|------|------|--------------------------|------|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | KG | LB |
| CPX1 12V | 700 | 454 | 1000 | 113 | 250 | 19 | 65 | 80 | 90 | 17.5 | 38.5 | - | - |
| CPX2 12V | 700 | 650 | 1433 | 163 | 358 | 21 | 69 | 80 | 90 | 17.5 | 38.5 | 20.5 | 45.1 |
| CPX2 24V | 900 | 760 | 1675 | 180 | 396 | 24 | 79 | 45 | 50 | 17.5 | 38.5 | 20.5 | 45.1 |
| CPX3 12V | 1000 | 890 | 1962 | 215 | 473 | 28 | 92 | 85 | 110 | 20.0 | 44.0 | 23.0 | 50.6 |
| CPX3 24V | 1000 | 1020 | 2248 | 243 | 535 | 30 | 98 | 60 | 90 | 20.0 | 44.0 | 23.0 | 50.6 |
| CPX4 12V | 1600 | 1250 | 2750 | 313 | 688 | 25 | 82 | 125 | 150 | 26.5 | 58.3 | 33.5 | 73.7 |
| CPX4 24V | 2000 | 1500 | 3300 | 375 | 825 | 27 | 90 | 70 | 110 | 26.5 | 58.3 | 33.5 | 73.7 |
| CPX5 12V | 2000 | 1450 | 3190 | 363 | 798 | 27 | 90 | 120 | 150 | 28.5 | 62.7 | 35.5 | 150 |
| CPX5 24V | 2000 | 1600 | 3520 | 400 | 880 | 29 | 97 | 60 | 110 | 28.5 | 62.7 | 35.5 | 110 |

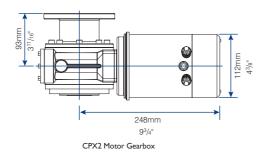
CPX Vertical Windlass

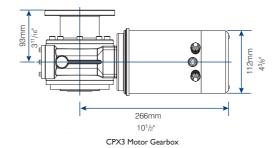
Dimensions Diagram CPX I/2/3



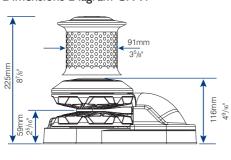


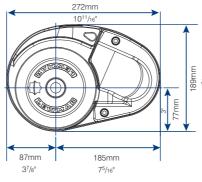


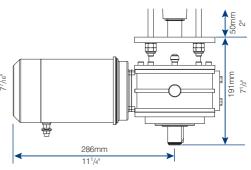




Dimensions Diagram CPX4



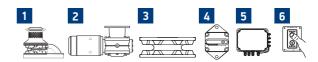




CPX1/2/3 Complete Kit

| PART N | JMBER | | | |
|------------|------------|-------|---|---------|
| GYPSY ONLY | GYPSY DRUM | MODEL | GYPSY NO- CHAIN DESCRIPTION | VOLTAGE |
| 6671011006 | - | CPX1 | 006- 6мм ISO 4565, 1/4" G40*, 1/4" ВВВ | 12V |
| 6671011000 | - | CPX1 | 000- 7ММ ISO 4565, 1/4" G40*, 1/4" ВВВ | 12V |
| 6671011001 | - | CPX1 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12V |
| 6672011006 | 6672021006 | CPX2 | 006- 6мм ISO 4565, 1/4" G40*, 1/4" ВВВ | 12V |
| 6672011000 | 6672021000 | CPX2 | 000-7MM ISO 4565, 1/4" G40*, 1/4" BBB | 12V |
| 6672011001 | 6672021001 | CPX2 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12V |
| 6672011002 | 6672021002 | CPX2 | 002-10MM DIN 766, CAMPBELL 3/8" S4 | 12V |
| 6672011003 | 6672021003 | CPX2 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 9.5MM G40 | 12V |
| 6672012001 | 6672022001 | CPX2 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 24V |
| 6672012002 | 6672022002 | CPX2 | 002-10MM DIN 766, CAMPBELL 3/8" S4 | 24V |
| 6672211000 | 6672221000 | CPX3 | 000- 7ММ ISO 4565, 1/4" G40*, 1/4" ВВВ | 12V |
| 6672211001 | 6672221001 | CPX3 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12V |
| 6672211002 | 6672221002 | CPX3 | 002-10MM DIN 766, CAMPBELL 3/8" S4 | 12V |
| 6672211003 | 6672221003 | CPX3 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 9.5MM G40 | 12V |
| 6672212001 | 6672222001 | CPX3 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 24V |
| 6672212002 | 6672222002 | срхз | 002-10MM DIN 766, CAMPBELL 3/8" S4 | 24V |
| 6672212003 | 6672222003 | срх3 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 9.5MM G40 | 24V |

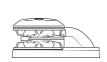
Windlass Kit includes deck unit, gypsy, motor gearbox, rocker switch, circuit breaker and contactor

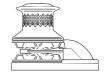


CPX1/2/3/4 Specify your Windlass

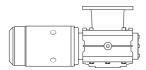
1 Deck Unit

| PART NO. | DESCRIPTION |
|----------|-------------------|
| 69000493 | CPX1 GYPSY ONLY |
| 69000480 | CPX2/3 GYPSY ONLY |
| 69000483 | CPX2/3 GYPSY DRUM |
| 69000494 | CPX4/5 GYPSY ONLY |
| 69000495 | CPX4/5 GYPSY DRUM |





2 Motor Gearbox



| PART NO. | DESCRIPTION |
|----------|-------------|
| 68001068 | CPX1 - 12V |
| 68001069 | CPX2 - 12V |
| 68001070 | CPX2 - 24V |
| 68001071 | CPX3 - 12V |
| 68001072 | CPX3 - 24V |
| 68001077 | CPX4 - 12V |
| 68001078 | CPX4 - 24V |

IP68 motor gearbox available for CPX2 & 3

- Water resistant unit won't be damaged even if No maintenance required submerged in water
- Robust composite IP68 Motor Case
- Compression cable clamps included
- Provide the best motor protection against the elements

| PART NO. | DESCRIPTION |
|----------|--|
| 68001073 | CPX2 12V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 68001074 | CPX2 24V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 68001075 | CPX3 12V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 68001076 | CPX3 24V IP68 MOTOR GEARBOX ASSY - NO CABLES |

3 Gypsy



| PART NO. | GYPSY NUMBER | =::=: | | ROPE MM | : SIZE IN | ROPE DESCRIPTION |
|----------|-----------------|----------|--|------------|----------------|---------------------------------|
| 68001047 | 006 | CPX1/2/3 | 6мм Iso 4565, 1/4" G40*, 1/4" ввв | 12-14 | 1/2 | 3-STRAND AND 8-PLAIT |
| 68001048 | | | CPX1/2/3 7MM ISO 4565, 1/4" G40*, 1/4" BBB | | | 3-STRAND AND 8-PLAIT |
| 68001049 | | | CPX1/2/3 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | | | 3-STRAND AND 8-PLAIT (5/8 ONLY) |
| 68001050 | 002 | CPX1/2/3 | 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 12-16 | 1/2-5/8 | 3-STRAND AND 8-PLAIT (5/8 ONLY) |
| 68001051 | 003 | CPX1/2/3 | 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 9.5MM G40 | 16 | 5/8 | 3-STRAND AND 8-PLAIT |
| 68001063 | 201 | CPX4 | 8MM DIN 766, 8MM ISO 4565, 5/16" G40, 5/16" CAMPBELL S4 | 12-14 | 1/2 | 3 STRAND |
| 68001064 | 202 | CPX4 | 10MM DIN 766, 5/16" CAMPBELL S3, 3/8" CAMPBELL S4, 9.5MM G30 | 16 | 5/8 | 3 STRAND |
| 68001065 | 203 | CPX4 | 10MM ISO 4565, 3/8" CAMPBELL S3, LEWMAR 9.5MM 640 | 16 | 5/8 | 3 STRAND |
| 68001066 | 204 | CPX4 | 12MM ISO 4565, 13MM DIN 766 | 18-20 | 3/4 | 3 STRAND |

^{*}G40 = Grade 40 Short Link Chain

Switch kit and accessories

4 Circuit breaker



7 Optional Accessories



Bulkhead Fittings 3 gland: 68000866

5 Contactor/ control box





Manual recovery kit for CPX I/2/3 Gypsy only: 66840056 Gypsy/Drum: 66840054

6 Switch and accessories





Manual Handle 29140017

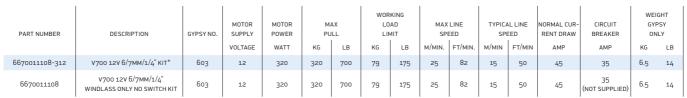


V700 Vertical Windlass

With 316 stainless steel housing and a sleek flush-mount design, the V700 is one of the most attractive and durable small windlasses on the market. It works at the push of a button and has two built-in features that make it unique – impact protection and a Fall Safe gypsy lock.

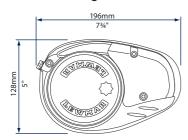
- 316 stainless steel deck unit
- IP67 rated (water resistant to I metre)
- Fall Safe gypsy lock prevents accidental deployment when under way
- Impact-resistant motor cover
- 5-year warranty
- For boats up to 10.5m (35 ft)

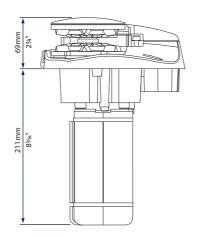




 $[\]ensuremath{\mbox{*}}$ Kit includes contactor and circuit breaker

Dimensions Diagram



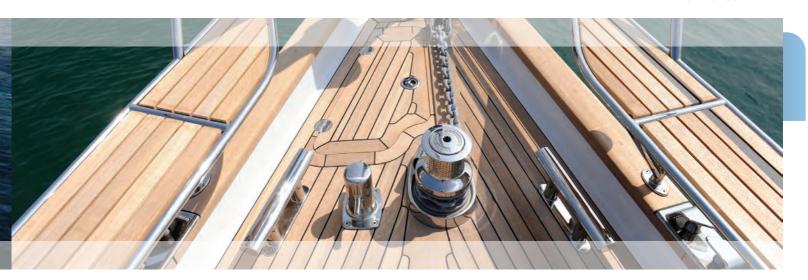


Dual Chain Gypsy

The V700 comes with a gypsy able to accept both 6mm and 7mm (1/4) inch chains.

- Fits calibrated chains: 6mm DIN766,
 1/4" G4 or BBB, 7mm DIN766
- Minimal parts for enhanced reliability





VI/V2/V3 Vertical Windlasses

The V Series represents the pinnacle of Lewmar's windlass development. Robust stainless steel deck units combined with powerful motors, the V Series is capable of withstanding the toughest conditions. Designed as the ideal anchoring companion for all serious boaters, the V Series windlasses are strong, beautiful and dependable.

- Rope-chain gypsy
- Manual chain release (Free Fall)
- Cone clutch for smooth, easy control
- Optional manual override motor gearbox
- W.A.R.P Drum
- Fall Safe anchor lock

- Worm gearbox
- FastFit[™] option for quicker installation and less hassle
- Emergency recovery kit available
- Water resistant IP68 kits available
- For boats up to 14m (48ft)



VI/V2/V3 Specifications

| MODEL | MOTOR POWER MAX PULL WORKING LOAD MAX LINE SPEED | | | | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APP W GYPSY | | APP W GYPSY | | | | |
|--------|--|------|------|-----|---------------------------|--------------------|----------------|-----|----------------|------|----|------|------|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | KG | LB |
| V1 | 700 | 750 | 1653 | 188 | 414 | 19 | 65 | 80 | 90 | 19 | 42 | - | - |
| V2 12V | 700 | 850 | 1874 | 213 | 470 | 21 | 69 | 80 | 90 | 19 | 42 | 22 | 48.5 |
| V2 24V | 900 | 850 | 1874 | 213 | 470 | 24 | 79 | 45 | 50 | 19 | 42 | 22 | 48.5 |
| V3 12V | 1000 | 1025 | 2260 | 257 | 567 | 28 | 92 | 85 | 110 | 21.5 | 47 | 24.5 | 54 |
| V3 24V | 1000 | 1025 | 2260 | 257 | 567 | 30 | 98 | 60 | 90 | 21.5 | 47 | 24.5 | 54 |

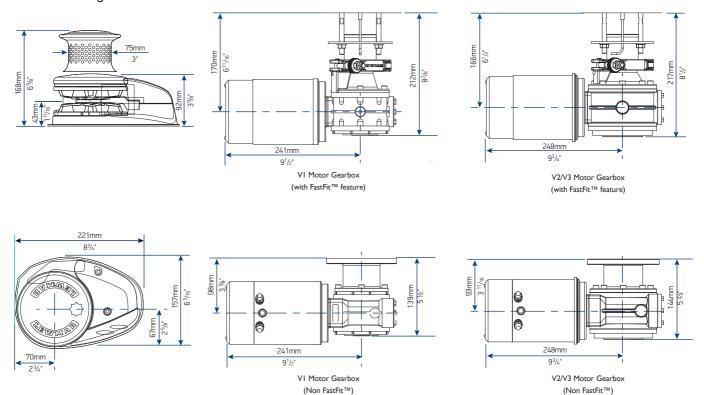
FastFit™ Feature

FastFit™ motor gearbox attachement enables the windlass to be fitted by one person. While the gearbox alignment to the deck unit is critical to a standard installation, the FastFit™ clamping system perfectly aligns the deck unit and motor-gearbox for a perfect fit first time.

- FastFit[™] enable the motor / gearbox to be rotated and fixed in increments of 45°
- To install your windlass, simply fix the deck unit to the deck and then slide the gearbox up the shaft, swing the FastFit™ clamp shut and tighten up the bronze nut.



Dimensions Diagram

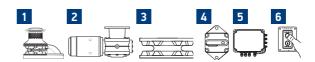


VI/V2/V3 Complete Kit - Include Fastfit™ feature

| GYPSY ONLY | GYPSY DRUM | MODEL | GYPSY NO- CHAIN DESCRIPTION | VOLTAGE |
|------------------------------|----------------|-------|---|---------|
| 6671011107-138 (USA ONLY) | - | V1 | 000-7MMIS0 4565, 1/4" G40*, 1/4" BBB | 12 |
| 6671011108-138 (USA ONLY) | - | V1 | 002-10MM DIN 766, CAMPBELL 3/8" 54, 5/16" 640 | 12 |
| 6671011196-138 | - | V1 | 006- 6мм ISO 4565, 1/4" G40*, 1/4" ВВВ | 12 |
| 6671011197-138 | - | V1 | 000- 7ММ ISO 4565, 1/4" G40*, 1/4" ВВВ | 12 |
| 6671011198-138 | - | V1 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12 |
| 6672011196-138 | 6672021196-138 | V2 | 006- 6мм ISO 4565, 1/4" G40*, 1/4" ВВВ | 12 |
| 6672011197-138 | 6672021197-138 | V2 | 000-7ММ ISO 4565, 1/4" G40*, 1/4" ВВВ | 12 |
| 6672011198-138 | 6672021198-138 | V2 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12 |
| 6672011108-138 | 6672021108-138 | V2 | 002- 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 12 |
| 6672011110-138 | 6672021110-138 | V2 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 3/8" G40 | 12 |
| 6672012198-140 | 6672022198-140 | V2 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 24 |
| 6672012108-140 | 6672022108-140 | V2 | 002- 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 24 |
| 6672211197-139 | 6672221197-139 | V3 | 000-7MM ISO 4565, 1/4" G40*, 1/4" BBB | 12 |
| 6672211198-139 | 6672221198-139 | V3 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12 |
| 6672211108-139 | 6672221108-139 | V3 | 002- 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 12 |
| 6672211110-139 | 6672221110-139 | V3 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 9.5MM G40 | 12 |
| 6672212198-142 | 6672222198-142 | V3 | 001- 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 24 |
| 6672212108-142 | 6672222108-142 | V3 | 002- 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 24 |
| 6672212110-142 | 6672222110-142 | V3 | 003- 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 3/8" G40 | 24 |

Above kits all feature Fastfit™ motor gearboxes

Windlass Kit includes deck unit, gypsy, motor gearbox, rocker switch, circuit breaker and contactor

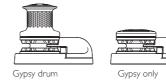


VI/V2/V3 Vertical Windlasses

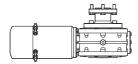
Specify your VI/V2/V3

1 Deck Unit

| PART NO. (NON FASTFIT) | PART NO. (FASTFIT) | DESCRIPTION |
|---------------------------|-----------------------|-----------------|
| 69000481 | 68000951 | V1 GYPSY ONLY |
| 69000484 | 68000828 | V2/3 GYPSY ONLY |
| 69000485 | 68000829 | V2/3 GYPSY DRUM |



2 Motor Gearbox



| PART NO. (NON FASTFIT) | PART NO. (FASTFIT) | DESCRIPTION |
|---------------------------|-----------------------|-------------|
| 68001055 | 66810065 | V1-12V |
| 68000527 | 68000813 | V2 - 12V |
| 68000538 | 68000814 | V2 - 24V |
| 66810007 | 68000815 | V3 - 12V |
| 66810008 | 68000816 | V3 - 24V |

IP68 motor gearbox available (non FastFit™)

- Water resistant unit will not be damaged even if submerged under water
- Robust composite case
- Compression cable clamps included
- No maintenance required
- Provide best motor protection against the elements

| PART NO. | DESCRIPTION |
|----------|--|
| 68001052 | V2 12V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 68001053 | V2 24V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 66810132 | V3 12V IP68 MOTOR GEARBOX ASSY - NO CABLES |
| 68001054 | V3 24V IP68 MOTOR GEARBOX ASSY - NO CABLES |

3 Gypsy



| PART NO. | GYPSY NUMBER | CHAIN DESCRIPTION | ROPE | SIZE | ROPE DESCRIPTION |
|----------|-----------------|---|-------|-------------------------|---------------------------------|
| | | | MM IN | | |
| 68000840 | 006 | 6MM ISO 4565, 1/4" G40*, 1/4" BBB | 12-14 | 1/2 | 3-STRAND AND 8-PLAIT |
| 68000360 | 000 | 7MM ISO 4565, 1/4" G40*, 1/4" BBB | 12-14 | 1/2 | 3-STRAND AND 8-PLAIT |
| 68000361 | 001 | 8MM DIN 766, 8MM ISO 4565, 5/16" G40 | 12-16 | $^{1}/_{2} - ^{5}/_{8}$ | 3-STRAND AND 8-PLAIT (5/8 ONLY) |
| 68000362 | 002 | 10MM DIN 766, CAMPBELL 3/8" S4, 5/16" G40 | 12-16 | $^{1}/_{2} - ^{5}/_{8}$ | 3-STRAND AND 8-PLAIT (5/8 ONLY) |
| 68000363 | 003 | 10MM ISO, CAMPBELL 3/8" S3, LEWMAR 3/8" G40 | 16 | 5/8 | 3-STRAND AND 8-PLAIT |

^{*}G40 = Grade 40 Short Link Chain

Switch kit and accessories

4 Circuit breaker

5 Contactor/ control box



6 Switch and accessories



Switch kit and accessories see page 52-60

7 Optional Accessories





Manual recovery kit Gypsy only: 66840054 Gypsy/Drum: 66840056



Bulkhead Fitting 3 gland: 68000866



Manual Handle 29140017



V4/V5 Vertical Windlasses

The V4/V5 vertical windlass features a lightweight and strong deck unit manufactured from precision cast 316 grade stainless steel with a robust drive train. Available as gypsy or gypsy drum in either 12 volt or 24 volt models.

- Rope-chain gypsy
- Cone clutch for smooth, easy control
- Manual Free Fall
- W.A.R.P Drum
- Robust and reliable drive train
- Manual override (optional)



V4/V5 Electric Specifications

| MODEL | MOTOR POWER | | | MOTOR | | NORMAL CURRENT DRAW | CIRCUIT BREAKER | APP W GYPSY | | APP W GYPSY | | | |
|--------|----------------|------|------|-------|-----|---------------------------|--------------------|----------------|-----|----------------|----|----|----|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | KG | LB |
| V4 12V | 1600 | 1250 | 2750 | 313 | 688 | 25 | 82 | 125 | 150 | 29 | 64 | 36 | 79 |
| V4 24V | 2000 | 1500 | 3306 | 375 | 798 | 27 | 90 | 70 | 110 | 29 | 64 | 36 | 79 |
| V5 12V | 2000 | 1450 | 3190 | 363 | 825 | 27 | 90 | 120 | 150 | 31 | 68 | 38 | 84 |
| V5 24V | 2000 | 1600 | 3520 | 400 | 880 | 29 | 97 | 60 | 110 | 31 | 68 | 38 | 84 |

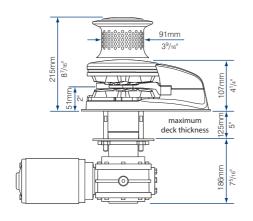


V4/V5 Hydraulic Specifications

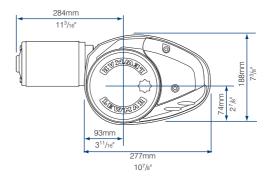
| PRODUCT | PRESSURE MAX | FLOW RATE | MAX. PULL | | MAX. LIN | IE SPEED | |
|----------|----------------------------|------------------------------------|--------------------|--------------------|-------------------|--------------------------|--|
| | | | KG | LB | M/MIN | FT/MIN | |
| V4/5 HYD | 175 BAR 2537 PSI (CONT) | 10-40 L/MIN 2.6-10.6 US GAL/MIN | 1100 AT 140 BAR | 2400 AT 203 PSI | 21 AT 40 L/MIN | 69 AT 10.6 US GAL/MIN | |

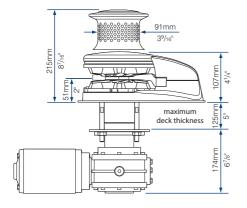
Hydraulic motor gearboxes are suitable for use with both V4/V5 and C4/C5.

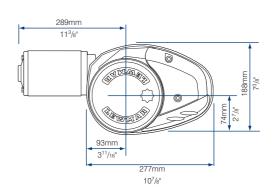
V4 Dimensions Diagram



V5 Dimensions Diagram







Specify your V4/V5

1 Deck Unit

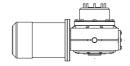
| | i de la companya de |
|----------|---|
| PART NO. | DESCRIPTION |
| 66810024 | V4/5 GYPSY ONLY |
| 66810025 | V4/5 GYPSY DRUM |





2 Motor Gearbox

| PART NO. | DESCRIPTION |
|----------|----------------|
| 68000534 | V4 - 12V |
| 68000535 | V4 - 24V |
| 66810011 | V5 - 12V |
| 66810012 | V5 - 24V |
| 68000294 | V4/5 HYDRAULIC |



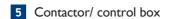
3 Gypsy



| PART NO. | GYPSY NUMBER | CHAIN DESCRIPTION | ROPE DES | CRIPTION | |
|----------|-----------------|--|----------|----------|----------|
| | | | ММ | IN | |
| 68000356 | 201 | 8mm din 766, 8mm iso 4565, 5/16" g40, 5/16" campbell s4 | 12-14 | 1/2 | 3 STRAND |
| 68000357 | 202 | 10MM DIN 766, 5/16" CAMPBELL S3, 3/8" CAMPBELL S4, 9.5MM G30 | 16 | 5/8 | 3 STRAND |
| 68000358 | 203 | 10MM ISO 4565, 3/8" CAMPBELL S3, LEWMAR 9.5MM (3/8") G40 | 16 | 5/8 | 3 STRAND |
| 68000359 | 204 | 12MM ISO 4565, 13MM DIN 766, 7/16" G40 | 18-20 | 3/4 | 3 STRAND |

Switch kit and accessories

4 Circuit breaker











Switch kit and accessories see page 52-60

7 Optional Accessories



Control arm kit: 66810031



Manual recovery kit Gypsy only: 66840003 Gypsy/Drum: 66840005



Bulkhead Fittings3 gland: 68000866
4 gland: 68000867





V6 Vertical Windlass

Designed for vessels of 60ft and above, the V6 Vertical Windlass has Lloyd's Type Approval, guaranteeing quality and performance. The windlass is available as gypsy only and gypsy drum in left and right-hand configuration. A host of features including 24V, hydraulic, wide range of gypsies, stainless steel W.A.R.P (Wear and Abrasion Resistant Pattern) drum and a cone clutch for smooth, easy control.

- All stainless steel deck unit
- Powered and manual chain release
- For boats up to 24m (80ft)
- Cone Clutch for smooth, easy control
- Left and right-hand versions
- Available in 24 V and Hydraulic power options
- Lloyd's Type Approval
- W.A.R.P. Drum (Wear and Abrasion Resistant Pattern)
- Remote chain-pipe version

For use with any size chain, but recomended when using 14mm chain





V6 Electric Specifications

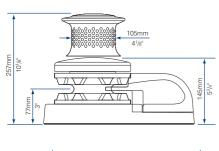
| MODEL | MOTOR POWER WATT | MAX KG | PULL LB | WORKING L | LOAD LIMIT | MAX LIN m/min | E SPEED FT/MIN | NORMAL CURRENT DRAW | CIRCUIT BREAKER AMP | WEI ĸg | GHT LB |
|--------|------------------------|-----------|------------|-----------|------------|------------------|-------------------|---------------------------|---------------------------|-----------|-----------|
| V6 24V | 2000 | 1800 | 3960 | 450 | 990 | 18 | 59 | 90 | 150 | 63 | 139 |

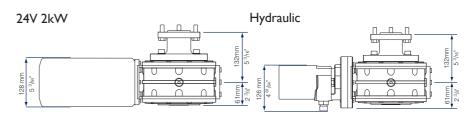
V6 Hydraulic Specifications

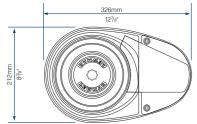
| PRODUCT | NORMAL PRESSURE | FLOW RATE | MAX. | MAX. PULL | | IE SPEED FT/MIN | WEI KG | WEIGHT KG LB | |
|--------------|--------------------------|------------------------------------|--------------------|---------------------|-------------------|---------------------------|-----------|-----------------|--|
| v6 hydraulic | 60 BAR 882 PSI (CONT) | 20-60 L/MIN 5.2-15.8 US GAL/MIN | 1450 AT 190 BAR | 3190 AT 2793 PSI | 34 AT 60 L/MIN | 110 AT 15.9 US GAL/MIN | 52 | 114 | |

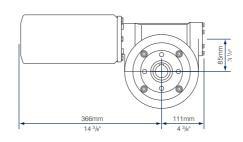
V6 Vertical Windlasses

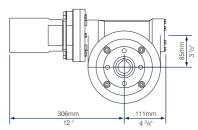
Dimensions Diagram











V6 Part Numbers

1 Deck Unit



| PART NO. | DESCRIPTION |
|----------|------------------------------|
| 69000400 | V6 DECK UNIT LH GYPSY DRUM |
| 69000401 | V6 DECK UNIT RH GYPSY DRUM |
| 69000402 | V6 DECK UNIT LH GYPSY ONLY |
| 69000403 | V6 DECK UNIT RH GYPSY ONLY |
| 69000404 | V6 DECK UNIT UNI GYPSY /DRUM |
| 69000405 | V6 DECK UNIT UNI GYPSY ONLY |

2 Motor Gearbox



| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| 69000407 | V6 - 24V MOTOR/GEARBOX ASSY |
| 69000408 | V6 - HYD MOTOR/GEARBOX |
| 69000409 | V6 HI-PRESSURE HYD MOTOR/GEARBOX |

3 Gypsy

| 17777 | <u> </u> |
|-------|----------|
| | |
| | |
| | |

| PART NO. | CHAIN DESCRIPTION |
|----------|---|
| 68000903 | 10ММ DIN 766, 3/8" ISO G4, LEWMAR 9.5ММ (3/8") G40 |
| 68000904 | 11MM SHORT LINK, LEWMAR 12MM G30/G40, 13MM DIN 766, 7/16" G40 |
| 68000905 | LEWMAR 14MM G30/G40, 14MM DIN 766, RECOMMEND REMOTE CHAIN PIPE VERSION |
| 68000906 | 1/2" ISO G4, LEWMAR 12MM G30/G40, LEWMAR 1/2" G30/G40 |

LH = Left Hand, RH = Right Hand, UNI = Universal (symetrical version)

Switch kit and accessories

4 Circuit breaker

5 Contactor/ control box



6 Switch and accessories



Switch kit and accessories see page 52-60

7 Optional Accessories





14-16mm Remote Chain Pipe 68000037



Blank cover and stripper kit 66000692



V8 Vertical Windlass

The V8 Vertical Windlass was the first of Lewmar's range of superyacht windlasses. The centre shaft has a support structure built to withstand high loads for larger vessels up to 120 feet. The V8 gypsy is driven by a solid dog clutch that can be easily disconnected for controlled anchor descent via a band break. The band brake can be operated with a winch handle or remotely by hand wheel. The V8 is available in many options including gypsy drum and gypsy only, both in left- and right-hand configuration and a full range of power options include AC, DC and hydraulic.

- All stainless steel deck unit
- Dog clutch
- A wide range of metric and imperial chain gypsies are available
- Close-coupled or remote band brake options available
- Full range of power options including AC, DC and hydraulic
- Independent capstan operation
- Powered or manual chain release
- W.A.R.P. Drum (Wear and Abrasion Resistant Pattern)
- Left and right-hand versions
- Remote chain pipe version
- For boats up to 33m (108ft)

ailable ulic Type APPROVAL SCHAME

V8 Electric Specifications

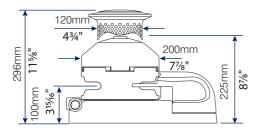
| MODEL | VOLTAGE | MOTOR POWER | MAX | PULL | WORKING I | LOAD LIMIT | MAX LIN | E SPEED | NORMAL CURRENT DRAW | CIRCUIT BREAKER | WEI | GHT |
|----------|---------|----------------|------|------|-----------|------------|---------|---------|---------------------------|--------------------|-----|-----|
| | | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB |
| v8 2500W | 24 | 2500 | 2273 | 5000 | 568 | 1250 | 24 | 79 | 150 | 200 | 101 | 222 |
| v8 3500W | 24 | 3500 | 2727 | 6000 | 682 | 1500 | 23 | 75 | 200 | 250 | 103 | 227 |
| v8 ac | 208 | | 2200 | 4840 | 625 | 1375 | 15.5 | 51 | 12 | 16 | 105 | 231 |
| v8 ac | 400 | | 2500 | 5500 | 550 | 1210 | 19 | 62 | 9 | 10 | 105 | 231 |

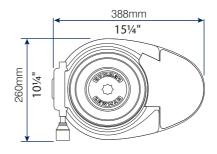
V8 Hydraulic Specifications

| MODEL | NORMAL F | PRESSURE | FLOW RATE | | MAX PULL | | MAX LIN | WEIGHT | | |
|-----------------------|----------|----------|-----------|------------|----------------|-----------------|---------------|----------------------|----|-----|
| | BAR | PSI | L/MIN | US GAL/MIN | KG | LB | M/MIN | FT/MIN | KG | LB |
| V8 HYD (165CC/REV) | 50 | 735 | 20-55 | 5.2-14.3 | 1818 @ 155 BAR | 4000 @ 2278 PSI | 18 @ 43 L/MIN | 59 @ 11.3 US GAL/MIN | 84 | 185 |
| V8 HYD (230CC/REV) | 50 | 735 | 20-55 | 5.2-14.3 | 2727 @ 155 BAR | 6000 @ 2278 PSI | 14 @ 40 L/MIN | 46 @ 10.6 US GAL/MIN | 84 | 185 |
| V8 HI-P HYD (IN-LINE) | 50 | 735 | 20-55 | 5.2-14.3 | 2727 @ 175 BAR | 6000 @ 2572 PSI | 21 @ 56 L/MIN | 69 @ 14.7 US GAL/MIN | 95 | 209 |

V8 Vertical Windlass

Dimensions Diagram



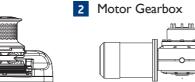


V8 Part Numbers













| PART NO. | PART NO. | DECEDIDITION |
|-----------|------------|--------------------------|
| PART NU. | PART NU. | DESCRIPTION |
| LEFT HAND | RIGHT HAND | |
| 69000377 | 69000378 | v8 deck unit gd, cb |
| 69000379 | 69000380 | v8 deck unit gd, hi-p cb |
| 69000381 | 69000382 | V8 DECK UNIT GO, CB |
| 69000387 | 69000388 | V8 DECK UNIT GO, HI-P CB |
| 69000390 | 69000391 | v8 deck unit gd, rb |
| 69000392 | 69000393 | V8 DECK UNIT GD, HI-P RB |
| 69000394 | 69000395 | V8 DECK UNIT GO, RB |
| 69000396 | 69000397 | V8 DECK UNIT GO, HI-P RB |

| PART NO. | DESCRIPTION |
|-----------|--|
| 69000383 | V8 24V 2.5KW MOTOR/GEARBOX |
| 69000383м | V8 24V 2.5KW M/GEARBOX MIRRORED |
| 69000384 | V8 24V 3.5KW MOTOR/GEARBOX |
| 69000384м | V8 24V 3.5KW M/GEARBOX MIRRORED |
| 69000385 | V8 HYD MOTOR/GEARBOX TE230 |
| 69000386 | V8 HYD HP MOTOR GEARBOX HIP ADAN 200 |
| 69000416 | V8 165CC/REV HYD MOTOR/GEARBOX TE165 |
| 69000444 | V8 4KW 400V 3 PH AC BRAKED M/GEARBOX |
| 69000444M | V8 4KW 400V AC BRAKED M/GEARBOX MIRRORED |
| 69000445 | V8 4KW 208V 3 PH AC BRAKED M/GEARBOX |
| 69000445М | V8 4KW 208V 3 PH AC BRAKED M/GBOX MIRRORED |

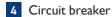
| PART NO. | GYPSY KIT | CHAIN DESCRIPTION |
|----------|---------------|--|
| 68000900 | 11MM | 11 MM DIN 766 |
| 68000877 | 12-13MM | 12 MM SHORT LINK, 13 MM DIN 766, 7/16" ISO G4 |
| 68000878 | 14MM | 14 MM SHORT LINK, 14 MM DIN 766 |
| 68000879 | 16мм | 16 MM SHORT LINK, 16 MM DIN 766 |
| 68000880 | 1/2" | 1/2" ISO G4 |
| 68000881 | 14MM STUDLINK | 14MM STUDLINK |



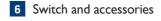


| PART NO. | VOLTAGE | MOTOR POWER | RATED CURRENT |
|----------|---------|-------------|---------------|
| 68000973 | 400 V | 4 KW | 9 A |
| 68000974 | 400 V | 5.5 KW | 12 A |
| 68000975 | 400 V | 7.5KW | 16 A |
| 68000981 | 200 V | 4 KW | 16 A |
| 68000982 | 200 V | 5.5 KW | 20 A |
| 68000983 | 200 V | 7.5KW | 27 A |

Switch kit and accessories













Switch kit and accessories see page 52-60

Description Abbreviations & Explanations

| LH | LEFT HAND ARE MAINLY FOR SINGLE INSTALLS | MIRRORED | MIRROR IMAGE TO ALLOW MOTOR TO BE ON OPPOSITE SIDE OF GEARBOX |
|------|---|----------|---|
| HI-P | HIGH-POWER DECK UNIT CAN ONLY BE USED WITH HP HYDRAULIC MOTOR GEARBOX | HP | HIGH-PERFORMANCE INLINE HYDRAULIC DRIVE |
| СВ | CLOSE COUPLED BAND BRAKE INCLUDED. IT IS OPERATED WITH A WINCH HANDLE OR WITH CLOSE COUPLED HANDWHEEL ASSEMBLY 68001023 | GD | GYPSY DRUM |
| RB | REMOTE BAND BRAKE VERSION READY TO ACCEPT THE BRAKE CABLE | GO | GYPSY ONLY |

7 Optional Accessories

Blank Cover

Blank cover and stripper kit can be used in installations where the chain pipe cover is not integrated to the windlass.

| PART NO. | DESCRIPTION |
|----------|------------------------------|
| 66000691 | BLANK COVER AND STRIPPER KIT |



Remote Chain Pipe

Remote chain pipes are efficient ways to deflect the chain in installation where the chain locker is offset.

| PART NO. | DESCRIPTION |
|----------|--------------------------|
| 68000024 | 8-13MM REMOTE CHAIN PIPE |



Band Brake Controls



| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| 68000897 | v8 horizontal remote brake |
| 68000876 | V8 REMOTE BRAKE ASSY |
| 68001023 | V8 CLOSED COUPLED HANDWHEEL ASSY |

Brake Cables - For use with remote handwheels

| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| 65001687 | V8 BRAKE CABLE 800MM (4MM WIRE) |
| 65001688 | V8 BRAKE CABLE 1000MM (4MM WIRE) |





V9/V10/V12 Vertical Windlasses

Offering a full suite of superyacht winches, the V9-V12 range caters for vessels from 95 to 160ft. Lewmar's cutting edge design includes large precision cast component assemblies. The casting allows optimised strength through FEA design, whilst offering significant weight saving over solid components.

- All stainless steel deck unit
- All sizes are available as gypsy only and gypsy drum in left hand, right hand and remote chain pipe configurations
- Full range of power options including AC, DC and hydraulic
- Independent capstan operation
- Powered or manual chain release
- W.A.R.P. Drum (Wear and Abrasion Resistant Pattern)
- A wide range of metric and imperial chain gypsies are available including 22mm Studlink
- For boats up to 50m (164ft)



V9/V10/V12 Gypsy/Drum



VI0/VI2 Only

V9/V10/V12 Electric Specifications

V9/V10/V12 Gypsy Only

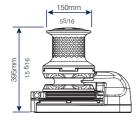
| MODEL | MOTOR POWER | | PULL | WORKING LOAD LIMIT | | MAX LINE SPEED | | NORMAL CURRENT DRAW | CIRCUIT BREAKER | WEIGHT | |
|-------------|----------------|------|-------|--------------------|------|----------------|--------|---------------------------|--------------------|--------|-----|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB |
| V9 400V AC | 4000 | 2250 | 4950 | 1125 | 2475 | 21 | 69 | 11 | 12 | 183 | 403 |
| V9 208V AC | 4000 | 2250 | 4950 | 1125 | 2475 | 21 | 69 | 13 | 14 | 183 | 403 |
| V9 400V AC | 5500 | 3182 | 7000 | 1591 | 3500 | 22 | 72 | 15 | 16 | 207 | 455 |
| V10 400V AC | 5500 | 4000 | 8800 | 2000 | 4400 | 18 | 59 | 12 | 13 | 301 | 662 |
| V10 208V AC | 5500 | 4000 | 8800 | 2000 | 4400 | 18 | 59 | 16 | 20 | 301 | 662 |
| V12 400V AC | 7500 | 5000 | 11000 | 2500 | 5500 | 20 | 66 | 15 | 16 | 357 | 785 |
| V12 208V AC | 7500 | 5000 | 11000 | 2500 | 5500 | 20 | 66 | 24 | 32 | 357 | 785 |

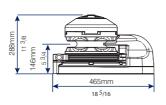
V9/V10/V12 Hydraulic Specifications

| MODEL | GEARBOX | MAX PRESSURE | | MAX PRESSURE | | MAX PRESSURE | | MAX PRESSURE | | FLOW | RATE | МАХ | PULL | WORKIN | IG LOAD | MAX LIN | E SPEED | WEI | GHT |
|------------------|---------|--------------|------|--------------|------------|--------------|-------|--------------|------|-------|--------|-----|------|--------|---------|---------|---------|-----|-----|
| | | BAR | PSI | L/MIN | US GAL/MIN | KG | LB | KG | LB | M/MIN | FT/MIN | KG | LB | | | | | | |
| v9 - 300 cc/REV | | 180 | 2646 | 20-60 | 5.2-15.6 | 3000 | 6600 | 1500 | 3300 | 30 | 96 | 153 | 337 | | | | | | |
| V9 - 230 CC/REV | | 180 | 2646 | 20-60 | 5.2-15.6 | 3000 | 6600 | 1500 | 3300 | 33 | 108 | 150 | 330 | | | | | | |
| V10 - 500 CC/REV | 5:1 | 155 | 2279 | 30-60 | 7.8-15.6 | 4000 | 8800 | 2000 | 4400 | 8-16 | 26-52 | 187 | 411 | | | | | | |
| V12 - 250 CC/REV | 13.5:1 | 155 | 2279 | 30-80 | 7.8-20.8 | 5000 | 11000 | 2500 | 5500 | 6-17 | 20-56 | 204 | 449 | | | | | | |

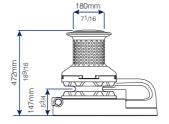
V9/V10/V12 Vertical Windlasses

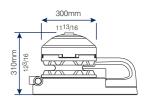
V9 Dimensions Diagram





V10/12 Dimensions Diagram





1 Deck Unit

| PART NO. | DESCRIPTION |
|----------|---------------------|
| 69000460 | V9 DECK UNIT LH GD |
| 69000461 | V9 DECK UNIT RH GD |
| 69000462 | V9 DECK UNIT UNI GD |
| 69000463 | V9 DECK UNIT LH GO |
| 69000464 | V9 DECK UNIT RH GO |
| 69000465 | V9 DECK UNIT UNI GO |
| | · |

LH = LEFT HAND, RH = RIGHT HAND, UNI = UNIVERSAL (SYMETRICAL VERSION), GO = GYPSY ONLY, GD = GYPSY DRUM

| PART NO. | DESCRIPTION |
|----------|------------------------------|
| 69000418 | V10/12 GD LH DECK UNIT |
| 69000419 | V10/12 GD RH DECK UNIT |
| 69000421 | V10/12 GD UNI PIPE DECK UNIT |
| 69000422 | V10/12 GO LH DECK UNIT |
| 69000423 | V10/12 GO RH DECK UNIT |
| 69000424 | V10/12 GO UNI PIPE DECK UNIT |

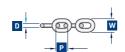
2 Motor Gearbox

| DESCRIPTION |
|---------------------------------------|
| V9 HYDRAULIC MOTOR/GEARBOX 230 CC/REV |
| V9 HYDRAULIC MOTOR/GEARBOX 300 CC/REV |
| Vg 208V AC 4KW DRIVE WITH BRAKE * |
| V9 400V AC 4KW DRIVE WITH BRAKE * |
| V9 400V AC 5.5KW DRIVE WITH BRAKE * |
| |

* MIRRORED VERSION AVAILABLE ADD M AT THE END OF THE PART NO

| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| 69000427 | V10 HYDRAULIC DRIVE WITH BRAKE |
| 69000448 | V10 208V 5.5KW DRIVE WITH BRAKE |
| 69000447 | V10 400V 5,5 KW DRIVE WITH BRAKE |
| 69000428 | V12 HYDRAULIC DRIVE WITH BRAKE |
| 69000450 | V10 208V 7.5KW DRIVE WITH BRAKE |
| 69000449 | V12 400V 7,5 KW DRIVE WITH BRAKE |





| | | | | ı | • | W | | |
|----------|--------------------------|------|-------|----|-------|------|-------|--|
| PART NO. | CHAIN DESCRIPTION | мм | IN | ММ | IN | ММ | IN | |
| | | V | 9 | | | | | |
| 66000738 | 12.5MM STUDLINK | 12.5 | 0.492 | 50 | 1.969 | 45 | 1.772 | |
| 66000775 | 14MM SHORTLINK GYPSY KIT | 14 | 0.551 | 41 | 1.614 | 50 | 1.969 | |
| 66000721 | 14MM STUDLINK | 14 | 0.551 | 56 | 2.205 | 50.4 | 1.984 | |
| 66000722 | 16MM STUDLINK | 16 | 0.630 | 64 | 2.520 | 57.6 | 2.268 | |
| 66000723 | 16MM SHORTLINK/DIN766 | 16 | 0.630 | 48 | 1.890 | 56 | 2.205 | |
| 66000724 | 17.5MM STUDLINK | 17.5 | 0.689 | 70 | 2.756 | 63 | 2.480 | |
| 66000725 | 18MM DIN 766 | 18 | 0.709 | 50 | 1.969 | 65 | 2.559 | |

| | | |) | | • | V | V |
|----------|--|------|-------|----|-------|------|-------|
| PART NO. | CHAIN DESCRIPTION | ММ | IN | мм | IN | мм | IN |
| | | V10/ | 12 | | | | |
| 68000944 | 16MM STUDLINK | 16 | 0.630 | 64 | 2.520 | 57.6 | 2.268 |
| 68000946 | 17.5MM STUDLINK | 17.5 | 0.689 | 70 | 2.756 | 63 | 2.480 |
| 68000943 | 19MM STUDLINK | 19 | 0.748 | 76 | 2.992 | 68.4 | 2.693 |
| 68000932 | 20.5MM STUDLINK | 20.5 | 0.807 | 82 | 3.228 | 73.8 | 2.906 |
| 68000945 | 22MM STUDLINK – V12 REMOTE HAWSE ONLY | 22 | 0.866 | 88 | 3.465 | 79.2 | 3.118 |

+ AC control boxes



| PART NO. | VOLTAGE | MOTOR POWER | RATED CURRENT |
|----------|---------|-------------|---------------|
| 68000973 | 400 V | 4 KW | 9 A |
| 68000974 | 400 V | 5.5 KW | 12 A |
| 68000975 | 400 V | 7.5KW | 16 A |
| 68000981 | 200 V | 4 KW | 16 A |
| 68000982 | 200 V | 5.5 KW | 20 A |
| 68000983 | 200 V | 7.5KW | 27 A |

7 Optional Accessories

Remote Hand wheel

68001025 - Suitable for V9

68000948 - Suitable for VI 0/VI 2

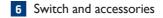
Custom brake control solutions are also available



Switch kit and accessories













Switch kit and accessories see page 52-60



VI4/16 Vertical Windlasses

The V14/16 is Lewmar's most powerful windlass for the superyacht market. Scaling our engineering principles to massive proportions, the V14/16 is immensely strong, reliable and suited to large-scale applications. Left- or right-hand configurations available with remote brake bands operated by wheel or winch handle.

- All 316 stainless steel drum and base.
- Gypsies for 19mm, 22mm, 24mm & 26mm studlink chain
- Integral chain stripper
- Remote hawse pipe with and without roller
- Gypsy Drum and Gypsy Only versions.
 Drum to accept 3 full turns of 50mm line
- Hydraulic and A.C. input
- Band brake operation via direct close coupled or remote hand wheel, with optional positions
- Handle deck thicknesses of up to 250mm
- · Chain counter pickup standard



VI4/VI6 Electric Specifications

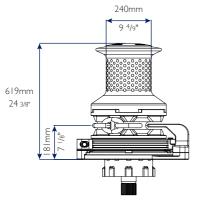
| MODEL | MOTOR POWER | MAX | PULL | WORKING I | LOAD LIMIT | MAX LIN | E SPEED | WEIGHT | | |
|-------------|----------------|------|-------|-----------|------------|---------|---------|--------|------|--|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | KG | LB | |
| V14 400V AC | 9.2 | 6000 | 13200 | 3000 | 6600 | 23.3 | 76.5 | 628 | 1383 | |
| V14 208V AC | 9.2 | 6000 | 13200 | 3000 | 6600 | 23.3 | 76.5 | 628 | 1383 | |
| V16 400V AC | 11 | 7000 | 15400 | 3500 | 7700 | 27.5 | 90.22 | 646 | 1420 | |
| V16 208V AC | 11 | 7000 | 15400 | 3500 | 7700 | 27.5 | 90.22 | 646 | 1420 | |

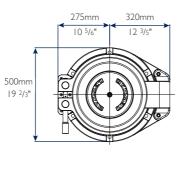
V14/16 Hydraulic Specifications

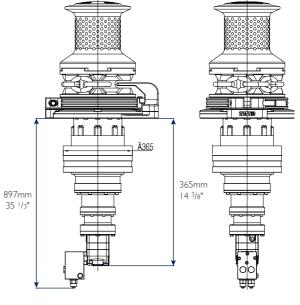
| MODEL | GEARBOX | MAX PRESSURE | | FLOW RATE | | MAX PULL | | WORKING LOAD | | MAX. LINE SPEED | | WEIGHT | |
|------------------|----------|--------------|------|-----------|------------|----------|-------|--------------|------|-----------------|--------|--------|-------|
| | | BAR | PSI | L/MIN | US GAL/MIN | KG | LB | KG | LB | M/MIN | FT/MIN | KG | LB |
| V14 - 400 CC/REV | 13.5 : 1 | 160 | 2352 | 90 | 24 | 6500 | 14300 | 3250 | 7150 | 19 | 62 | 329 | 725 |
| V16 - 300 CC/REV | 13.5 : 1 | 160 | 2352 | 90 | 24 | 7300 | 16060 | 3650 | 8030 | 17 | 56 | 328 | 722.5 |



V14/16 Dimensions Diagram







1 Deck Unit

| PART NO. | DESCRIPTION |
|----------|-------------------------|
| 69000643 | V14/16 GO RHB DECK UNIT |
| 69000644 | V14/16 GD RHB DECK UNIT |
| 69000645 | V14/16 GO LHB DECK UNIT |
| 69000646 | V14/16 GD LHB DECK UNIT |

 $\label{eq:local_local} LH = LEFT\ HAND,\ RH = RIGHT\ HAND,\ UNI = UNIVERSAL\ (SYMETRICAL\ VERSION),\ GO = GYPSY\ ONLY,\ GD = GYPSY\ DRUM$

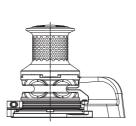
2 Motor Gearbox

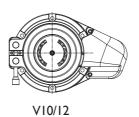
| PART NO. | DESCRIPTION |
|----------|-------------------------------|
| 69000641 | V14 HYDRAULIC MOTOR / GEARBOX |
| 69000642 | V16 HYDRAULIC MOTOR / GEARBOX |

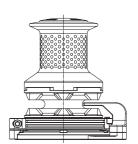
^{*} MIRRORED VERSION AVAILABLE ADD M AT THE END OF THE PART NO

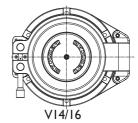


| | | | D | | Р | | W | |
|---------|----|-------------------|----|------|-----|------|------|------|
| PART NO | ١. | CHAIN DESCRIPTION | ММ | IN | ММ | IN | мм | IN |
| 6800116 | 5 | 19MM | 19 | 0.75 | 76 | 2.99 | 68.4 | 2.69 |
| 6800116 | 6 | 22MM | 22 | 0.86 | 88 | 3.46 | 79.2 | 3.11 |
| 6800116 | 7 | 24MM | 24 | 0.94 | 96 | 3.77 | 86.4 | 3.4 |
| 6800116 | В | 26мм | 26 | 1.02 | 104 | 4.09 | 93.6 | 3.68 |











HXI Horizontal Windlass

The HX range utilises a cast alloy and composite casing combined with a high-power drive train - using the latest inline motors and epicyclical gearboxes - resulting in a strong reliable design. HX features a strong and durable anodized aluminium chassis resulting in a strong, reliable design.

- Motor range 500W & 800W in 12V
- High efficiency epicyclical gearbox
- Sealed waterproof unit requires minimum maintenance
- Anodized aluminium chassis with a durable polymer cover
- IP67 rated as standard
- Quiet operation
- 2 gypsy models available to suit calibrated chain: 6/7mm (1/4"), 8mm

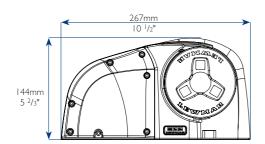


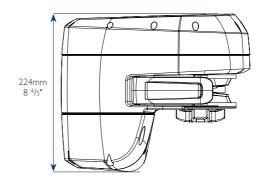
HXI Specifications

| MODEL | MAX | PULL | WORKING LOAD LIMIT | | MAX LINE SPEED | | NORMAL CURRENT CIRCUIT DRAW BREAKER | | APPROX G | | APPROX WEIGHT GD | | |
|-------|------|------|--------------------|-----|----------------|--------|-------------------------------------|-----|-------------|-----|---------------------|----|--|
| | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LBS | KG | LB | |
| 500W | 700 | 1543 | 175 | 383 | 20 | 60 | 75 | 50 | 9 | 20 | 9.5 | 21 | |
| 8oow | 1065 | 2348 | 266 | 586 | 21 | 63 | 105 | 70 | 9 | 20 | 9.5 | 21 | |

 $Windlass\ performance\ values\ are\ tested\ using\ -/+10\%\ 12\ voltage\ simulating\ the\ operation\ parameters\ of\ an\ installed\ battery\ system\ of\ a\ boat$

Dimensions Diagram





HXI Standard Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|-------------------------------|
| 69140001 | HX1 GO 500 6/7MM 1/4" STD KIT |
| 69140002 | HX1 GO 800 6/7MM 1/4" STD KIT |
| 69140003 | HX1 GO 500 8MM 5/16" STD KIT |
| 69140004 | HX1 GO 800 8MM 5/16" STD KIT |
| 69140005 | HX1 GD 500 6/7MM 1/4" STD KIT |
| 69140006 | HX1 GD 800 6/7MM 1/4" STD KIT |
| 69140007 | HX1 GD 500 8MM 5/16" STD KIT |
| 69140008 | HX1 GD 800 8MM 5/16" STD KIT |
| 69140009 | HX1 500 GF 6/7MM STD KIT |
| 69140010 | HX1 800 GF 6/7MM STD KIT |
| 69140011 | HX1 500 GF 8MM STD KIT |
| 69140012 | HX1 800 GF 8MM STD KIT |

 $\ensuremath{\mathsf{HXI}}$ Basic windlass kit includes $\ensuremath{\mathsf{HXI}}$ with intergrated motor gearbox, solenoid and gypsy









HXI Extended Windlass Kits

| PART NUMBER | DESCRIPTION |
|-------------|--------------------------------|
| 69140030 | HX1 GO 500 6/7MM 1/4" EXTD KIT |
| 69140031 | HX1 GO 800 6/7MM 1/4" EXTD KIT |
| 69140032 | HX1 GO 500 8MM 5/16" EXTD KIT |
| 69140033 | HX1 GO 800 8MM 5/16" EXTD KIT |
| 69140034 | HX1 GD 500 6/7MM 1/4" EXTD KIT |
| 69140035 | HX1 GD 800 6/7MM 1/4" EXTD KIT |
| 69140036 | HX1 GD 500 8MM 5/16" EXTD KIT |
| 69140037 | HX1 GD 800 8MM 5/16" EXTD KIT |
| 69140038 | HX1 500 GF 6/7MM EXTD KIT |
| 69140039 | HX1 800 GF 6/7MM EXTD KIT |
| 69140040 | HX1 500 GF 8MM EXTD KIT |
| 69140041 | HX1 800 GF 8MM EXTD KIT |

Extended windlass kit includes deck unit, motor gearbox, solenoid, gypsy, rocker switch and circuit breaker











Switch kit and accessories see page 52-60

7 Optional Accessories

HXI Free Fall Conversion Kit

Upgrade your Lewmar HXI with the Lewmar HXI Freefall Conversion Kit. An innovative design allows the windlass to automatically engage and disengage the gypsy clutch when needed, allowing great flexibility of anchoring possibilities.

The conversion kit allows simple retrofitting of the freefall mechanism.







Pro-Series + Pro-Fish Horizontal Windlasses

The Pro-Series Windlass is the ideal horizontal unit for on-deck installation. A beautiful stainless steel case combines robustness and strength. On the Pro-Fish edition, the automatic freefall mechanism means access to the windlass is not required to drop or retrieve anchor The gypsy has been specially designed to suit leaded lines up to 16mm in diameter and an optimised control arm. The new Pro-Guard plate prevents the rope from jumping out of the windlass or snagging during operation

- All stainless design
- Automatic freefall mechanism (Pro-Fish only)
- Manual emergency recovery equipped all you need is a common 1/2" socket wrench
- Maximum pulling power: 320kg (700 lb) for the 700 and 454kg (1,000 lb) for the 1000
- 5-year warranty
- For boats up to 12m (38ft)
- Free Fall conversion kits





Pro-Fish Features

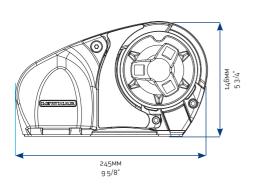
- Redesigned control arm features higher spring tension and modified profile to improve performance
- Closed cell neoprene gasket protects internals
- Unique Pro-Guard feature prevents rope jump and snags
- New gypsy designed specifically for up to 16mm leaded anchor rodes

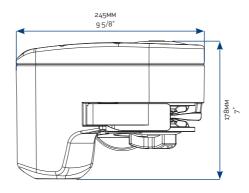
Pro-Series/Fish Specifications

| MODEL | 10DEL MAX.CHAIN | | MOTOR SUPPLY VOLTAGE | MOTOR POWER WATT | MAXIMUM PULL KG LB | | WORKING LOAD LIMIT KG LB | | MAXIMUM LINE SPEED M/MIN FT/MIN | | NORMAL CURRENT DRAW | CIRCUIT BREAKER AMP | WEI KG | GHT LB |
|-----------------|-----------------|------|----------------------------|------------------------|--------------------------|------|--------------------------------|-----|---------------------------------|-----|---------------------------|---------------------------|-----------|-----------|
| PRO-SERIES 700 | 7 | 1/4 | 12 | 500 | 320 | 700 | 79 | 175 | 32 | 105 | 35 | 50 | 8.5 | 19 |
| PRO-SERIES 1000 | 8 | 5/16 | 12 | 700 | 454 | 1000 | 114 | 250 | 32 | 105 | 50 | 70 | 9.5 | 21 |
| PRO-FISH 700 | 7 | 1/4 | 12 | 500 | 320 | 700 | 79 | 175 | 32 | 105 | 35 | 50 | 8.5 | 19 |
| PRO-FISH 1000 | 8 | 5/16 | 12 | 700 | 454 | 1000 | 114 | 250 | 32 | 105 | 50 | 70 | 9.5 | 21 |

Pro-Series + Pro-Fish Horizontal Windlasses

Dimensions Diagram





Pro-Series Kit

| PART NO. | DESCRIPTION | GYPSY SPECIFICATIONS | | | | | | | |
|----------------|--|---|---|--|--|--|--|--|--|
| | | CHAIN | ROPE | | | | | | |
| 6656011967-310 | PRO-SERIES 700 KIT | 6MM DIN 766, 7MM DIN 766, $1/4$ " ISO G4, $1/4$ " BBB | 12MM (1/2") 3-STRAND AND 8-PLAIT | | | | | | |
| 6657011967-311 | PRO-SERIES 1000, 6-7MM (1/4") KIT | 6MM DIN 766, 7MM DIN 766, 1/4" ISO G4, 1/4" BBB | 12MM (1/2") 3-STRAND AND 8-PLAIT | | | | | | |
| 6657011198-311 | PRO-SERIES 1000, 8MM (5/16") KIT | 8MM DIN 766 , $5/16$ " BBB, 8 MM ISO 4565 | 14-16MM (9/16-5/8") 3-STRAND AND 8-PLAIT (5/8 ONLY) | | | | | | |
| 6657011108-102 | PRO-SERIES 1000, 5/16" G40 KIT (US ONLY) | 5/16" G40 | 14-16MM (9/16-5/8") 3-STRAND AND 8-PLAIT (5/8 ONLY) | | | | | | |

Kits include: Windlass, base gasket seal, fast-mounting studs, installation wrench, circuit breaker, dual-direction solenoid and rocker switch.

















Pro-Fish Windlass Kit

| PART NO. | DESCRIPTION | GYPSY SPECIFICATIONS | | | | | | |
|----------------|--|---|---|--|--|--|--|--|
| | | ROPE | | | | | | |
| 6656211967-310 | PRO-FISH 700 KIT | 6MM DIN 766, 7MM DIN 766, $1/4"$ ISO G4, $1/4"$ BBB | 12MM (1/2") 3-STRAND AND 8-PLAIT | | | | | |
| 6656411198-311 | PRO-FISH 1000 KIT | 8MM DIN 766 , $5/16$ " BBB, 8 MM ISO 4565 | 14-16MM (9/16-5/8") 3-STRAND AND 8-PLAIT (5/8 ONLY) | | | | | |
| 6656411199-311 | PRO-FISH PB | 14-16 MM (9/16-5/8") LEAD-CORE LINE | | | | | | |
| 6657011108-102 | PRO-SERIES 1000, 5/16" G40 KIT (US ONLY) | 5/16" G40 | 14-16MM (9/16-5/8") 3-STRAND AND 8-PLAIT (5/8 ONLY) | | | | | |

Kits include: Windlass, base gasket seal, fast-mounting studs, installation wrench, circuit breaker, dual-direction solenoid and rocker switch

















7 Optional Accessories

Pro-Fish Conversion Kit

Converts Pro-Series to Pro-Fish



PART NO. 66000616

10. DESCRIPTION
16 CONVERSION KIT

Pro-Series/Fish Rope Guard and Control Arm Upgrade Kit

Compatible with all versions of Pro-Series and Pro-Fish units. However, windlasses fitted with a Ø118mm RC860 gpysy will need to replace the gypsy.

| 3mm RC860 gpysy will need to replace ypsy. | |
|--|--|
| | |

Pro-Fish PB Leaded Rope Gypsy Kit

Suits 14-16mm lead-core line

| PART NO. | DESCRIPTION |
|----------|-----------------------|
| 66000768 | PRO-FISH PB GYPSY KIT |

| PART NO. | DESCRIPTION |
|----------|--|
| 66000766 | PRO-SERIES/FISH ROPE GUARD AND CONTROL ARM UPGRADE KIT |



Pro-Sport Horizontal Windlass

Lewmar's Pro-Sport windlass is designed as an economical package for rope and chain applications, without compromising quality or performance. Pro-Sport is designed around a highly efficient spur gearbox, using smaller, more powerful permanent magnet motors. Its rugged aluminium centre case and durable composite side covers make Pro-Sport the perfect choice. Complete with push-button control, anchoring has never been easier.

- Low power consumption / current draw
- Dual direction powered operation
- Maximum pulling power: 250kg (550lb)
- Convenient above deck installation
- 3 year warranty
- For boats up to 12m (40ft)
- Manual freefall
- DIY ready



Pro-Sport 550 Windlass Kit Specifications

| 1 | PART NUMBER | CHAIN DESCRIPTION | | | MOTOR SUPPLY | | MAXIMUM PULL | | MAXIMUM LINE SPEED | | | | NORMAL CURRENT DRAW | | | CIRCUIT BREAKER | |
|---|----------------|---|------|-----|-------------------------|---------|--------------|-----|-----------------------|--------|---------|------|---------------------------|-----|-----|--------------------|----|
| | | | мм | IN | | VOLTAGE | WATT | KG | LB | M/MIN. | FT/MIN. | KG | LB | AMP | KG | LB | |
| 6 | 6656811967-303 | 6MM DIN766, 1/4" ISO G4, 1/4" BBB, 7MM DIN 766 | 12MM | 1/2 | 3-STRAND AND 8-PLAIT | 12 | 150 | 250 | 550 | 30 | 98 | 62.5 | 137.5 | 20 | 6.5 | 14 | 25 |





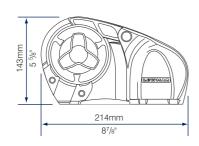


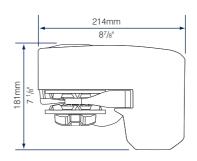




Kit includes: windlass, base gasket seal, fast mounting studs, installation wrench, contactor (68000939), guarded rocker switch (68000593) and circuit breaker

Dimensions Diagram







H-Series

The stylish, horizontal H-Series Windlass uses reliable worm gearbox technology. The integral contactor simplifies wiring and is protected by a durable maincase. The unit's waterproof seal requires minimum maintenance, and since you can install it in one piece, getting started is quick and easy.

- Stainless steel warping drum with unique W.A.R.P. (Wear and Abrasion Reduction Pattern) finish
- Robust horizontal worm motor-gearbox for reliable performance
- Integral contactor protected by maincase
- Sealed waterproof unit requires minimum maintenance
- Aluminium and composite maincase for reduced weight

H2 & H3 Specifications

| PART NUMBER | PART NUMBER | MODEL | MOTOR SUPPLY | GYPSY NO. | MOTOR POWER | MAX PL | IMUM JLL | | IMUM SPEED | WOR LOAD | KING LIMIT | NORMAL CURRENT DRAW | NOR LII SPE | ΝE | WEI GYPS\ | | WEI GYPSY | GHT /DRUM | CIRCUIT BREAKER |
|----------------|----------------|-------|-----------------|--------------|----------------|-----------|-------------|-------|---------------|-------------|---------------|---------------------------|-------------------|----|--------------|----|--------------|--------------|--------------------|
| GYPSY ONLY | GYPSY/DRUM | | VOLTAGE | | WATT | KG | LB | M/MIN | FT/MIN | KG | LB | AMP | М | FT | KG | LB | KG | LB | AMP |
| 69600533 | 69600537 | H2 | 12 | 505 | 700 | 650 | 1433 | 21 | 69 | 163 | 358 | 80 | 17 | 56 | 21.5 | 47 | 23.5 | 52 | 90 |
| 69600534 | 69600538 | H2 | 12 | 506 | 700 | 650 | 1433 | 21 | 69 | 163 | 358 | 80 | 17 | 56 | 21.5 | 47 | 23.5 | 52 | 90 |
| 69600541 | 69600545 | Н3 | 12 | 505 | 1000 | 890 | 1962 | 28 | 92 | 215 | 475 | 85 | 18 | 59 | 23.5 | 52 | 25.5 | 56 | 110 |
| 69600542 | 69600546 | Н3 | 12 | 506 | 1000 | 890 | 1962 | 28 | 92 | 215 | 475 | 85 | 18 | 59 | 23.5 | 52 | 25.5 | 56 | 110 |
| 69600544 | 69600548 | НЗ | 24 | 506 | 1000 | 1020 | 2248 | 30 | 98 | 243 | 535 | 60 | 20 | 66 | 23.5 | 52 | 25.5 | 56 | 90 |

H2 & H3 Gypsy Specifications

| PART NUMBER | GYPSY NUMBER | SIZE | CHAIN DESCRIPTION | | OPE RIPTION | |
|----------------|-----------------|------|---|-------|----------------|------------------------------------|
| | | ММ | | ММ | IN | |
| 66000007 | 505 | 8 | 5/16" BB, 5/16" ISO G4, 8MM DIN 766, 8MM ISO 4565 | 14-16 | 9/16-5/8 | 3-STRAND AND 8-PLAIT (5/8 ONLY) |
| 66000006 | 506 | 10 | 3/8" BBB, 10MM DIN 766, LEWMAR 9.5 G40 | 14-16 | 9/16-5/8 | 3-STRAND AND 8-PLAIT (5/8 ONLY) |

Kits include: Built-in-dual-direction contactor, breaker and rocker switch



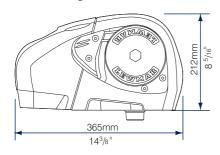


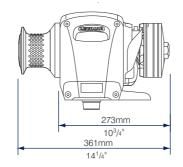






Dimensions Diagram





7 Optional AccessoriesManual Recovery Kit

Available on the H2/H3 as an optional extra, it remains fitted to the unit for user convenience

| PART NO. | DESCRIPTION |
|----------|---------------|
| 66840045 | M/R KIT H2/H3 |

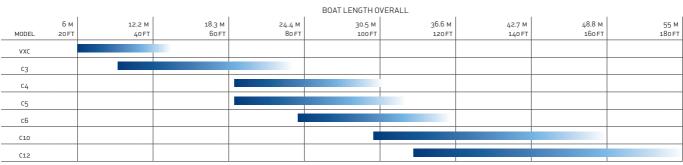


C Series Capstans

Lewmar's C Series Capstans provide effortless rope control at the press of a footswitch. The W.A.R.P. (Wear and Abrasion Resistant Pattern) finished drum optimises performance and reduces rope wear by up to 30%. Stainless steel components combine strength, corrosion resistance and durability with a beautiful polished finish. Installation of the C3 is quick and simple as it is fastened entirely from above deck.

- Beautifully crafted stainless steel components ensure enduring strength and performance
- W.A.R.P. finish drum unique Wear and Abrasion Resistant Pattern reduces rope wear by 30%
- C3 offers quick, easy on-deck installation, requiring only one person
- C4–C10s have worm gearbox-inherent anti-runback characteristics acting as a mechanical brake

Capstan Selection Guide



Lighter shading represents the upper limit of model. If in doubt, move up a model.

C Series Capstan Electric Specifications

| DESCRIPTION | MOTOR MAXIMU POWER PULL | | | | | | MUM SPEED | NORMAL CURRENT DRAW | CIRCUIT BREAKER | WEI | GHT |
|---------------|----------------------------|------|------|------|------|-------|--------------|---------------------------|--------------------|------|-----|
| | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB |
| VXC | 800 | 700 | 1543 | 175 | 385 | 21 | 63 | 58 | 70 | 7 | 15 |
| C3 - 12V | 1000 | 750 | 1650 | 188 | 414 | 12 | 39 | 65 | 70 | 12 | 26 |
| C3 - 24V | 1000 | 850 | 1870 | 213 | 470 | 12 | 39 | 40 | 50 | 12 | 26 |
| C4 - 12V | 1600 | 1250 | 2750 | 313 | 690 | 25 | 82 | 125 | 150 | 25 | 55 |
| C4 - 24V | 2000 | 1500 | 3300 | 375 | 827 | 27 | 89 | 70 | 110 | 25 | 55 |
| C4 - 400 AC | 2200 | 1500 | 3300 | 375 | 827 | 12.5 | 41 | 5 | 6 | 36 | 80 |
| C5 – 12V | 2000 | 1450 | 3190 | 363 | 800 | 27 | 89 | 120 | 150 | 27.5 | 60 |
| C5 - 24V | 2000 | 1600 | 3520 | 400 | 882 | 29 | 97 | 60 | 110 | 27.5 | 60 |
| c6 – 24V | 2000 | 1540 | 3388 | 770 | 1698 | 40 | 131 | 90 | - | 30 | 66 |
| C6 – 400V AC | 3000 | 1600 | 3520 | 800 | 1760 | 14 | 46 | 7.4 | - | 44 | 97 |
| C10 - 400V AC | 4000 | 2400 | 5280 | 1200 | 2640 | 20 | 66 | 9 | 10 | 107 | 236 |

C-Series Capstans

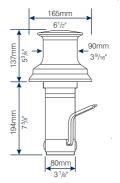
C Series Capstan Hydraulic Specifications

| MODEL | | MAL SURE | FLO | W RATE | MAX. | PULL | MAX. LINE SPEED | | |
|----------------------------------|-----|-------------|--------|------------|----------------|-----------------|-----------------|-----------------------|--|
| | BAR | PSI | L/MIN | US GAL/MIN | KG | LB | M/MIN | FT/MIN | |
| C4/5 HYDRAULIC | 175 | 2537 | 10 -40 | 2.6 -10.6 | 1100 AT 14 BAR | 2400 AT 203 PSI | 21 AT 40L/MIN | 69 AT 10.6 US GAL/MIN | |
| c6 hydraulic | 175 | 2573 | 10 -60 | 2.6 -15.8 | 1600 | 3520 | 8 TO 30 | 26 TO 98 | |
| C10 (200 CC/REV) | 175 | 2573 | 20 -55 | 5.2 - 14.3 | 2420 | 5324 | 8-23 | 26-75 | |
| C12 (250 CC/REV) 13.5:1 G/BOX | 155 | 2279 | 30 –80 | 7.8 – 20.8 | 5000 | 11000 | 6–17 | 20-56 | |

C3 Capstan Kits

| PART NO. | DESCRIPTION |
|------------|---|
| 6630331312 | C3 - 12V DECK UNIT ® MOTOR GEARBOX ASSEMBLY |
| 6630332312 | C3 - 24V DECK UNIT ® MOTOR GEARBOX ASSEMBLY |

C3 Dimensions Diagram



C3 Deck Unit and Motor Gearbox Assembly

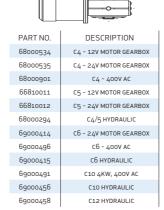
C4/5/6/10/12 Capstans



69000453

C10/12 DECK UNIT





3 Circuit Breakers



| PART NO. | DESCRIPTION |
|----------|----------------------|
| 68000350 | CIRCUIT BREAKER 110A |
| 68000351 | CIRCUIT BREAKER 150A |

4 Contactor



| PART NO. | DESCRIPTION | | | | | | | | | |
|--|-------------------|--|--|--|--|--|--|--|--|--|
| | SEALED CONTACTORS | | | | | | | | | |
| 68000933 | SINGLE 12V | | | | | | | | | |
| 68000934 | SINGLE 24V | | | | | | | | | |
| CONTACTORS IN BOXES | | | | | | | | | | |
| 18000301 | SINGLE 12V | | | | | | | | | |
| 18000302 | SINGLE 24V | | | | | | | | | |
| PRE-WIRED CONTACTORS IN BOXES WITH FUSE | | | | | | | | | | |
| 68000919 | SINGLE 12V | | | | | | | | | |
| 68000920 | SINGLE 24V | | | | | | | | | |
| 00000920 | 31140EE 244 | | | | | | | | | |

Suitable for C3, C4, C5 and C6

AC control boxes

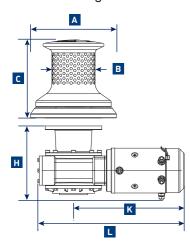
Suitable for C4, C5, C6 and C10



| PART NO. | VOLTAGE | MOTOR POWER | RATED CURRENT |
|----------|---------|-------------|---------------|
| 68000976 | 400 V | 2.2 KW | 5.5 A |
| 68000977 | 400 V | 3 KW | 7 A |
| 68000978 | 400 V | 4KW | 9 A |
| 68000979 | 400 V | 5.5 KW | 12 A |
| 68000980 | 400 V | 7.5 KW | 16 A |

| PART NO. | VOLTAGE | MOTOR POWER | RATED CURRENT | | |
|----------|---------|-------------|---------------|--|--|
| 68000984 | 200 V | 2.2 KW | 9.5 A | | |
| 68000985 | 200 V | 3 KW | 12 A | | |
| 68000986 | 200 V | 4KW | 16 A | | |
| 68000987 | 200 V | 5.5 KW | 20 A | | |
| 68000988 | 200 V | 7.5 KW | 27 A | | |

Dimensions Diagram



Above deck dimensions

| MODEL | 1 | A | E | 3 | (| |
|--------|-----|--------|-----|-------|-----|-------|
| | ММ | IN | ММ | IN | ММ | IN |
| c4/5 | 215 | 81/2 | 108 | 41/4 | 196 | 73/4 |
| с6 | 230 | 91/16 | 130 | 57/16 | 219 | 85/8 |
| C10/12 | 340 | 13 3/8 | 180 | 7 | 293 | 111/2 |

Below deck dimensions

| PART NO | MOTOR/ | | L | ŀ | (| Н | | |
|----------|-------------|-----|---------------------------------|-----|----------------------------------|-----|--------|--|
| | GEARBOX | ММ | IN | ММ | IN | ММ | IN | |
| 68000534 | C4 12V | 363 | 141/4 | 278 | 10 7/8 | 168 | 62/3 | |
| 68000535 | C4 24V | 363 | 141/4 | 278 | 10 7/8 | 168 | 62/3 | |
| 68000901 | C4 400V AC | 489 | 191/4 | 405 | 15 ¹⁵ / ₁₆ | 201 | 715/16 | |
| 66810011 | C5 12V | 390 | 151/3 | 298 | 112/3 | 173 | 63/4 | |
| 66810012 | C5 24V | 390 | 151/3 | 298 | 112/3 | 173 | 63/4 | |
| 68000294 | C4/C5 HYD. | 319 | 12 ⁹ / ₁₆ | 235 | 91/4 | 179 | 7 | |
| 69000414 | C6 24V | 400 | 153/4 | 299 | 113/4 | 172 | 65/8 | |
| 69000491 | C10 400V AC | 697 | 27 ⁷ /16 | 555 | 217/8 | 263 | 101/4 | |





Captive Reel Windlass CRW400

Lewmar's CRW400 windlass represents a step-change in engineering and design for small boat windlasses. Built around a stainless steel chassis with composite bearing technology and a robust UV-stabilised ABS shell, the CRW400 is salt-water resistant and suitable for boats up to 30ft. Lewmar's unique "level wind" feature ensures that the rode is always stowed neatly on the drum, ensuring tangle-free anchoring and maximum stowage capacity every time. In addition, the windlass features load detection, allowing effective "drift" fishing to be performed. An auto-stop is also included, ensuring a safe number of wraps remain on the drum when anchoring in deep water. An integrated switch is fitted to the rear of the housing, or optional remote controls can be fitted. A clear window means that correct functioning of the windlass can be observed, with no risk of trapping fingers or clothing in the winding drum.

- Rode stowage without the need for a locker
- Optional remote operation can be deployed and retrieved from the helm as well as the unit
- Self locking no need for cleat or chain stopper
- High-quality materials and construction
- Level-wind technology prevents spooled line bunching
- All stainless steel 316 chassis / ABS UV-stabilised case





Full UV-stabilised ABS housing incorporates clear viewing window, IP67-rated switchgear and integrated protected electronics housing.



Manufactured in robust acetal, a compact worm and wheel gear system powers the rode feeder arm, thereby neatly laying the rode on the drum.



The composite rode feeder arm includes a the unit from paying-out when the line is



Heavy-duty gears transfer the power of the sprung load-detecting device. This prevents 400W integrated motor-gearbox via the main shaft to the feeder arm mechanism.

Captive Reel Windlass Specifications

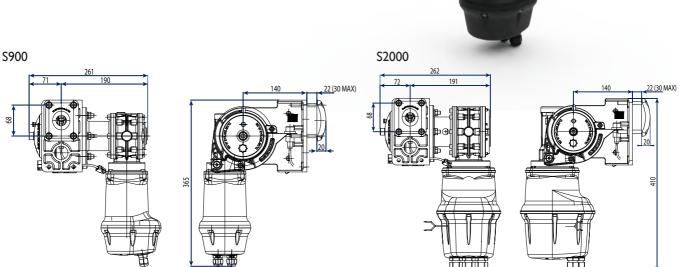
| | MOTOR | | | NORMAL CURRENT | | | | | | DIMEN | ISIONS | ı | |
|----------|-------|--------------------------|---------|-------------------|-------------------|--------------------|---------------------------|--------|--------|-------|----------|-----|-------|
| PART NO | POWER | MAXLIN | E SPEED | DRAW | MAX ANCHOR WEIGHT | | RODE TYPE | LENGTH | | WIDTH | | HEI | GHT |
| | WATT | WATT M/MIN FT/MIN AMP KG | | KG | LB | ROPE ONLY MAX DIMS | ММ | IN | ММ | IN | ММ | IN | |
| 66910441 | 400 | 25 | 82 | 15 | 16 | 40 | 35м (115FT) оғ 6мм (1/4") | 365 | 14 3/8 | 303 | 11 15/16 | 188 | 7 2/5 |



S900 & S2000 Stern Windlass

Lewmar's stern windlass range is designed specifically to suit the growing trend of stern-to anchoring. A robust stainless steel bracket allows for universal mounting on most sterns and transoms. Quick deployment of the anchor and line is easy with a new generation of Lewmar's Pro-Fish automatic free-fall mechanism. The proprietary 'auto-stop' system comes as standard in all models and helps prevent damage to the windlass, anchor and stern when stowing, allowing for hands free anchoring for the skipper.

- Specifically for stern anchoring
- Automatic Free-Fall & Auto-Stop as standard
- Robust universal bracket for secure and easy installation
- Single Gypsy allowing for 12-16mm diameter leaded line
- 6 models to suit boats up to 48ft
- Port & starboard mounting options avaiavble.



| | | | MOTOR | MAXI | MUM | WOR | KING | MAXI | | NORMAL CURRENT | CIRCUIT | | | GYPSY SPECIFICATIONS |
|----------|----------------|---------------------|-------|------|------|------------|------|------------|--------|-------------------|---------|--------|----|--------------------------------------|
| PART N | T NUMBER MODEL | | POWER | PU | LL | LOAD LIMIT | | LINE SPEED | | DRAW | BREAKER | WEIGHT | | |
| PORT | STBD | | WATT | KG | LB | KG | LB | M/MIN | FT/MIN | AMP | AMP | KG | LB | |
| 69000940 | 69000941 | sgoo - 600W / 12V | 600 | 409 | 900 | 200 | 440 | 17 | 56 | 85 | 90 | 11.6 | 26 | 12-16 MM (1/2 - 5/8") LEAD-CORE LINE |
| 69000942 | 69000943 | S2000 - 1000W / 12V | 1000 | 910 | 2000 | 420 | 924 | 18 | 59 | 100 | 110 | 19.9 | 44 | 12-16 MM (1/2 - 5/8") LEAD-CORE LINE |
| 69000944 | 69000945 | S2000 - 1000W / 24V | 1000 | 910 | 2000 | 420 | 924 | 18 | 59 | 50 | 60 | 19.9 | 44 | 12-16 MM (1/2 - 5/8") LEAD-CORE LINE |



Tender Garage Winch

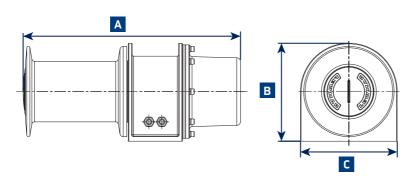
Lewmar have developed a new unit specifically to operate within a tender garage as an aid to stowing and deploying the tender.

The TW650 consists of an aluminium mounting frame and drum, hard anodised for durability and optimum protection against the harsh marine environment. The ABS motor cover is waterproof to IP68 standard.

The TW650 is C.E. Certified, conforming to EN28846:1993/A1:2000

Ignition Protection is included as standard for simple wiring installation in the stern garage.

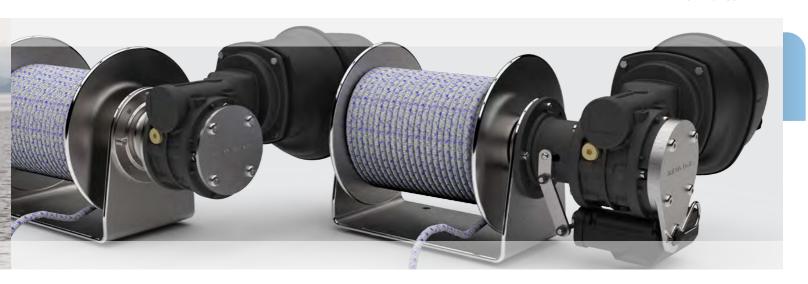
- Complies with EN 28846:1993/A1:2000
- Drum can accommodate 9m of 8mm line (2 layers of wrap on drum)
- Working load = 250kg at 11m/min line speed, drawing 45 amps
- Max working load = 750kg at 8m/min line speed, drawing 150 amps
- Complete with line/float/hook





Tender Garage Winch Specifications

| PART NO | MOTOR POWER WATT | MOTOR SUPPLY VOLTAGE | MAX LIN | E SPEED FT/MIN | NORMAL CURRENT DRAW | RODE TYPE ROPE ONLY MAX DIMS | A LENGTH MM | B HEIGHT MM | C WIDTH MM |
|----------|------------------------|----------------------------|---------|-------------------|---------------------------|---------------------------------|-------------------|-------------------|------------------|
| 66910553 | 1000 | 24V | 11 | 36 | 45 | gM OF 8MM | 337 | 152 | 150 |
| 69000807 | 1000 | 12V | 11 | 36 | 45 | 9M OF 8MM | 337 | 152 | 150 |



Drum Windlass

The Drum windlass is the newest addition to the Lewmar windlass range. Calling on our experience in windlass and winch line management we have designed the drum windlass for stern or bow anchoring for boats up to 8m(26ft).

Combining a full stainless body and our proven 1000w IP68 rated motors as standard has provided a new windlass range that is built for durability, performance and optimum protection against the harsh marine environment.

Small Drum

- Drum can accommodate 60m of 6mm line
- Plus 10m of chain 6mm chain
- Max line speed 41m/min
- Max working load = 1000kg

Large Drum

- Drum can accommodate 75m of 8mm line
- Plus 10m of chain 8mm chain
- Max line speed 41m/min
- Max working load = 1000kg







| | | В |
|-------|--|---|
| A | | |



| PART NO | FREE FALL | MOTOR POWER WATT | MOTOR SUPPLY VOLTAGE | MAX LIN | E SPEED FT/MIN | RODE TYPE ROPE ONLY MAX DIMS | LENGTH | B HEIGHT MM | C WIDTH MM |
|-----------|--------------|------------------------|----------------------------|---------|-------------------|---------------------------------|--------|-------------------|------------------|
| 690001015 | | 1000 | | 41 | 134 | 6MM 3-STRAND | 423 | 252 | 439 |
| 690001017 | | 1000 | | 41 | 134 | 6MM 3-STRAND | 423 | 252 | 439 |
| 690001016 | | 1000 | | 41 | 134 | 8MM 3-STRAND | 483 | 280 | 461 |
| 690001018 | | 1000 | | 41 | 134 | 8MM 3-STRAND | 483 | 280 | 461 |

Switch kit and accessories



4 Circuit Breakers

| PART NO. | DESCRIPTION | USE WITH WINDLASS MODEL |
|----------|----------------------|--|
| 68000603 | CIRCUIT BREAKER 25A | PRO-SPORT |
| 68000604 | CIRCUIT BREAKER 35A | V700 |
| 68000348 | CIRCUIT BREAKER 50A | PRO-SPORT/ PRO-FISH 700W - CPX2/V2 24V - C3 24V, VX1 300, VX2/RX2 24V, HX1 500 |
| 68000240 | CIRCUIT BREAKER 70A | PRO-SPORT/ PRO-FISH 1000W - CPX0 500W - C3 12V, VX1 500, HX1 800 |
| 68000349 | CIRCUIT BREAKER 90A | CPX0 700W/ CPX1/ V1 - CPX2/ V2 12V - CPX3/ V3 24V - H2 12V - H3 24V, VX2/RX2 12V, VX2+/RX2+ 24V, VX3/RX3 24V |
| 68000350 | CIRCUIT BREAKER 110A | CPX3/V3 12V - CPX4/V4/V5 24V - H3 12V - C4/C5 24V. VX2+/RX2+ 12V, VX3/RX3 12V |
| 68000351 | CIRCUIT BREAKER 150A | CPX4/ V4 12V - V5 12V - V6 24V - C4 / C5 12V |
| 68000894 | CIRCUIT BREAKER 200A | v8 2.5KW |
| 68000895 | CIRCUIT BREAKER 250A | v8 3.5kw |



5 Contactors





| PART NO. | DESCRIPTION | VX1 | VX/RX2/3 | VX1L | CPXo | CPX1 | CPX2/3 | CPX4 | V700 | V1 | V2/3 | ٧4 | V5 | N6 | V8 2.5KW | V8 3.5KW | HX ₁ | PRO-SERIES FISH 700 | PRO-SERIES FISH 1000 | PRO-SPORT | C3 TO C6 | CRW400 | Sgoo | 52000 |
|-----------|-------------------------------|-----|----------|------|------|------|--------|------|------|----|------|----|----|----|----------|----------|-----------------|------------------------|-------------------------|-----------|----------|--------|------|-------|
| | SEALED CONTACTORS | | | | | | | | | | | | | | | | | | | | | | | |
| 68000933 | SINGLE 12V | | | | | | | | | | | | | | | | | | | | | | | |
| 68000934 | SINGLE 24V | | | | | | | | | | | | | | | | | | | | • | | | |
| 68000937 | COMPACT DUAL 12V | | | | • | | • | | | • | | | | | | | | | | | | | | |
| 68000938 | COMPACT DUAL 24V | | | | | | • | | | | | | | | | | | | | | | | | |
| 68000318 | DUAL 12V | | | | | | | | | • | | | • | | | | | | | | | | | |
| 68000319 | DUAL 24V | | | | | | • | | | | | | • | | • | | | | | | | | | |
| 68000939 | COMPACT DUAL 12V | | | | | | | | | | | | | | | | | | | | | | | |
| 68000320 | DUAL 12V | | | | | | | | | | | • | | | | | | | | | | | | |
| 68000321 | DUAL 24V | | | | | | | | | | | • | | | | | | | | | | | | |
| | CONTACTORS IN BOXES | | | | | | | | | | | | | | | | | | | | | | | |
| 18000301 | SINGLE 12V | | | | | | | | | | | | | | | | | | | | | | | |
| 18000302 | SINGLE 24V | | | | | | | | | | | | | | | | | | | | | | | |
| 68000129 | DUAL 12V | | | | | | | | | | | | | | | | | | | | | | | |
| 68000130 | DUAL 24V | | • | | | | | | | | | | | | | | | | | | | | | |
| 18000200 | DUAL 12V | | | | | | | | | | | • | | | | | | • | | | | | | |
| 18000237 | DUAL 24V | | | | | | | | | | | • | | | | | | | | | | | | |
| PRE-WIRED | CONTACTORS IN BOXES WITH FUSE | | | | | | | | | | | | | | | | | | | | | | | |
| 68000919 | SINGLE 12V | | | | | | | | | | | | | | | | | | | | • | | | |
| 68000920 | SINGLE 24V | | | | | | | | | | | | | | | | | | | | • | | | |

6 Switches

CHSX Foot Switch

- Suitable for DC electric windlasses running on 12 or 24V
- IP67/5 rated for water resistance
- Twin sealed switch compartment
- Composite plastic body
- Available with polished stainless steel or composite plastic lid
- New lower-profile design with updated styling

| DESCRIPTION | BLACK PART NUMBER | STAINLESS STEEL PART NUMBER |
|-------------|----------------------|--------------------------------|
| CLOSED LID | 68001249 | 68001257 |
| OPEN LID | 68001256 | 68001258 |



Deck Foot Switch

- Suitable for DC electric windlasses running on 12 or 24V
- Single direction switch
- Hinged cover to prevent accidental operation
- Available in grey, white, or stainless steel
- Normally open contact, 5A (12 & 24V)
- Ready to install
- Must be used with a contactor or control box

| DESCRIPTION | GREY | WHITE | STAINLESS STEEL |
|---------------|-------------|-------------|-----------------|
| | PART NUMBER | PART NUMBER | PART NUMBER |
| WINDLASS DOWN | 68000883 | 68000918 | 68000888 |
| WINDLASS UP | 68000884 | 68000917 | 68000889 |
| BLANK | 68000928 | 68000930 | 68000929 |



68000883 Grey Foot Switch



68000930 White Foot Switch



68000888 Stainless Steel Foot Switch







Custom Deck Switches

Lewmar has developed a range of stylish Custom Deck Switches. The new Custom Deck Switch can be used for any winch or windlass application.

- Sealed switch with strong rubber button cover
- Stainless steel main body
- Polished or blasted finishes as standard (custom finishes available)
- Easy replacement of bellows
- Must be used with a contactor or control box

| DESCRIPTION | MIRROR POL (MIRROR FINISH) | BLASTED (MATTE FINISH) |
|-------------|-------------------------------|---------------------------|
| CLOSED | 48000257 | 48000259 |
| OPEN | 48000256 | 48000258 |





6 Remotes

Wireless RF Remote Control

- 3-Button Windlass Wireless Remote Control allows wireless remote up/down operation of any Lewmar windlass
- Wireless range of up to 20m (without obstruction)
- 5-Button Windlass & Thruster Remote Control allows wireless port/starboard thrust operations of any Lewmar Thruster, and wireless up/down operation of any Lewmar Windlass
- Easily retrofitted to existing installations
- Kit includes one wireless fob and one receiver that supports up to eight remote key fobs. Additional fobs sold separately.
- Include a replaceable battery
- The fobs float and are waterproof to IP67 (I metre deep)
- Using over I billion individual codes, a proprietary encryption scheme prevents false triggering from any other device or similar fob
- FCC & CE Compliant

3-Button Windlass Wireless Remote Kit

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------------------|
| 68000967 | 3-BUTTON WINDLASS WIRELESS REMOTE KIT |

5-Button Windlass & Thruster Wireless Remote Kit

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 68000968 | 5-BUTTON WINDLASS ® THRUSTER WIRELESS REMOTE KIT |





Kit includes a receiver and a 3 button wireless fob

Kit includes a receiver and a 5 button wireless fob



Additional Fobs

| PART NUMBER | DESCRIPTION |
|-------------|--------------------|
| 68001005 | 3-BUTTON SPARE FOB |
| 68001006 | 5-BUTTON SPARE FOB |

10m Remote Antenna Kit

| PART NUMBER | DESCRIPTION |
|-------------|------------------------|
| 68000969 | 10M REMOTE ANTENNA KIT |





When reception is poor or distance to the windlass/thruster is long, a remote antenna will improve reception.

Guarded Rocker Switch

| PART NUMBER | DESCRIPTION |
|-------------|-----------------------|
| 68000593 | DUAL DIRECTION SWITCH |



PART NUMBER DESCRIPTION 69000819 AA320 HAND HELD WIRED REMOTE CONTROL

- Ergonomic shape with rubber over-moulding for shock protection and grip
- Can operate in parallel with other control equipment

Hand held cable remote control

- Connect to DC, AC and Hydraulic systems
- Rugged cable connectors with moulded plug and socket rated to IP67





Wired Windlass Remote

The 2 button wired windlass remote is the latest design of IP rated hand-held remote from Lewmar. The new unit is designed for remote operation of all Lewmar windlasses. The wired remote is constructed with high-strength, glass-reinforced PP combined with a high-density rubber gasket to ensure robust durability and a secure grip whatever the conditions. These units are supplied complete with a connecting cable extendable up to 3 meters, a watertight deck fitting and socket, and a support bracket for stowing.

- IP67 plug & socket included
- Wall plate included
- 3m of cable (pre-fitted with plug)
- Waterproof to IP67 (EN 60529) handset
- Over-moulded soft touch rubber buttons
- Can be used on both 12V and 24V systems
- Flange mount socket and sealing cap included

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------|
| 66940002 | WIRED WINDLASS REMOTE KIT |





Chain Counters

A chain-counter allows the scope of chain/rope to be more accurately measured, ensuring quicker, safer anchoring under any conditions. Lewmar distribute the full range of AutoAnchor chain counters, varying from a basic panel-mounted chain counter to a full multi-station capable wireless control. The AutoAnchor product makes a great add-on to any of Lewmar's vertical windlasses. New plug and play cables reduces installation time.

AAI50 - Chain counter

Part No: 66830014

Displays the length of rode deployed through the windlass.

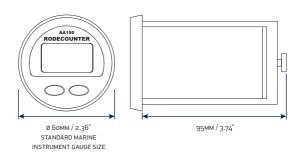
- LCD display shows at a glance how much anchor rode is out
- Docking alarm sounds when the anchor is close to docking
- Now plug and play AA sensor installation
- Works with rope/chain or all-chain rode
- Use with DC, AC and hydraulic windlasses
- Install up to 2 units or combine with the AA560, AA710 or AA300 series for multiple stations on the boat
- Standard 60mm (2.36") marine instrument console

Kit Includes:

- Console with sensor plug and fastening kit
- I magnet (I0mm × 8mm)
- Grey sensor with 2m sensor cable and plug (Use for all-chain or rope/chain installations)
- Motor load sensor terminators (Use for rope/ chain installations)
- Installation instructions and user manual



Dimensions



Specifications

| POWER SUPPLY | CURRENT CONSUMPTION | TEMPERATURE RANGE | MAXIMUM VOLTAGE | EMC PROTECTION/CE |
|-----------------|------------------------|-----------------------------|--------------------|-------------------|
| 12 OR 24V DC | 30MA | -5 TO 60°C (23 TO 140°F) | 30V DC | EN609945 |

AutoAnchor SmartBox - AA802 - NMEA Compatible

The world's most advanced chain counter has arrived. The core of the AutoAnchor range means fewer complications and greater control over your anchoring. SmartBox technology opens up myriad of anchor monitoring possibilities when combined with 3rd party information such as GPS and depth. AutoAnchor can now transform other anchor watch software into a more comprehensive anchoring tool.

- Very accurate chain and rope count
- Simplified installation, set up and calibration.
- Daisy-chain wiring to read outs with a single cable or via Bluetooth
- NMEA2000 for 3rd party displays and for integrated information
- Bluetooth Wireless for excellent wireless coverage and links to smartphone apps or plotters
- Improved sensor technology





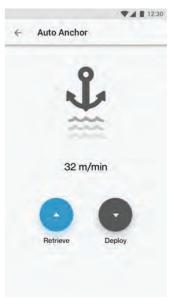
SmartSensor - AA001

- 3-Axis Reading gives Auto Directional Detection; no need for up/ down input signal
- Rope/chain auto detection
- No need for load wires
- High sensitivity for improved sensing distance

SmartConsole - AA870 / Smart Remote - AA810

- Interface wirelessly with 3rd-party hardware, including direct to your phone via the AutoAnchor app
- Reliable wireless or NMEA2000 connectivity
- Effortless addition of multiple counters



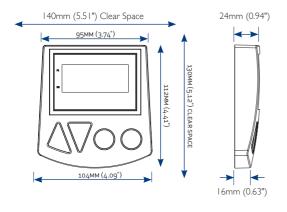


Chain counter AA560 / AA570

Controls the windlass from the helm station and shows at a glance how much anchor rode is deployed.

- "One touch" automatic function deploys and retrieves a preset length of anchor rode making anchoring easier and safer
- Docking alarm and preset stopping point help protect the boat during anchor retrieval
- Use with DC, AC and hydraulic windlasses

Dimensions



- Install up to 2 units or combine with the AA150, AA710 or AA300 series for multiple stations on the boat
- The new AA570 wireless panel-mount rode counter is a wireless version of the AA560



Specifications

| POWER SUPPLY | CURRENT CONSUMPTION | TEMPERATURE RANGE | MAX. VOLTAGE | EMC PROTECTION/CE |
|--------------|------------------------|-----------------------------|----------------|----------------------|
| 12 OR 24V DC | 70МА | -5 TO 60°C (23 TO 140°F) | 30 v DC | EN609945 |

AA560 Part No 66830015 Kit Includes:

- Console with sensor plug and fastening kit
- Grey sensor with 2m sensor cable and plug (Use for all-chain or rope/ chain installations)
- I magnet (I0mm x 8mm)
- Motor load sensor terminators (Use for rope/chain installations)
- Installation instructions and user manual

AA570 Part No 66830041 Kit Includes:

- Console with sensor plug and fastening kit
- Base Station (AA702A) with male sensor plug
- Grey sensor with 2m sensor cable and plug (Use for all-chain or rope/ chain installations)
- I magnet (10mm x 8mm)
- Motor load sensor terminators (Use for rope/chain installations)
- Installation instructions and user manual

AA730 - Wired Remote control with LCD and chain counter

Part No: 66830040

Waterproof control for windlass or thruster with chain counter

- Full windlass control and chain counting
- Controls bow and/or stern thrusters
- 4 metres spiral cable
- Stowage on cradle
- Use with DC, AC and Hydraulic systems
- Operates in parallel with other control equipment eg toggle switches, foot switches and other electronic controllers.

47.4. 47.4.

Kit Includes:

One handheld console unit with cradle, one base station, a deck socket with 2m lead, a socket sealing cap, one sensor, 2 magnets, screws for the cradle and socket, installation and operation instructions.

AA710 - Wireless windlass control and chain counter

Part No: 66830011

Handheld device to control the windlass and other devices with integrated chain counter feature.

- Full windlass control and chain counting
- Controls bow and/or stern thrusters
- Preset the length of rode to deploy
- Auto stop and docking alarm when the anchor is close to
- High level wireless transmission security includes unique ID and registration for every unit

- Safety lock reduces unwanted operation
- Displays signal strength and battery
- Use with DC, AC and Hydraulic systems
- Operates in parallel with other control equipment eg toggle switches, foot switches and other electronic controllers.





Kit Includes:

- Hand Held Radio Remote Control Unit (AA710)
- Base Station (AA702A) with male sensor plug
- Grey sensor with 2m sensor cable and plug (Use for all-chain or rope/chain installations)
- I Magnet (I0mm x 8mm)
- Motor load sensor terminators (Use for rope/chain installations)
- Installation instructions and user manual

AA601 - Rode counter for glass bridge PC or PLC display Part No: 66830035

The AA601 connects to the onboard computer for monitoring the length of rode deployed through the windlass.

- Rode length monitoring from the An alarm warns skipper when onboard computer.
- Connection via RS485 serial port Use with DC, AC and Hydraulic or USB direct.
- Pre-programmed calibrations for rope/chain rodes
- anchor is close to docking
- systems

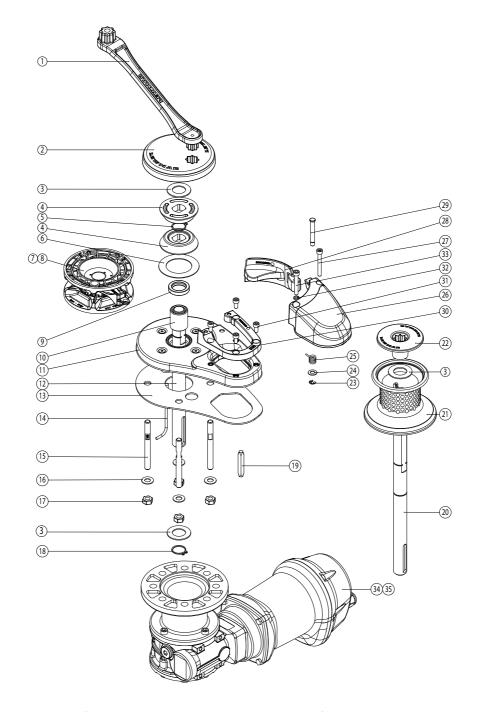


Spare cables and accessories

- For easy installation the cables have male connectors at both ends (M-M).
- The sensors and console have female connectors.
- Chain counters use 3 wire shielded cables to meet the EN 60945 EMC requirements.

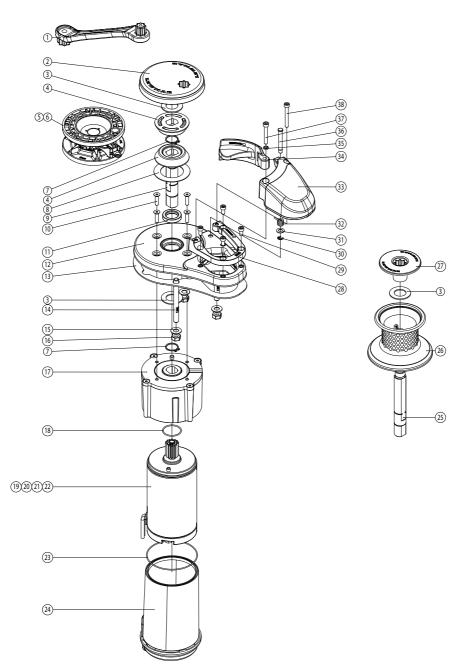
| PART NUMBER | DESCRIPTION |
|-------------|--------------------------------------|
| 66830025 | 2M DUAL INSTRUMENT CABLE |
| 66830026 | DUAL INSTRUMENT T-JUNCTION CONNECTOR |
| 66830030 | SENSOR MALE FIELD CONNECTOR |
| 66830031 | SENSOR FEMALE FIELD CONNECTOR |
| 66830032 | SENSOR CABLE GENDER CHANGE |
| 66830016 | ANTENNA EXTENSION 10M |
| 66000639 | SENSOR AND MAGNET KIT |

| PLUG ® PLAY SENSOR EXTENSION CABLES | | |
|-------------------------------------|-------------|--|
| PART NUMBER | DESCRIPTION | |
| 66830021 | 6.5M CABLE | |
| 66830027 | 10M CABLE | |
| 66830022 | 15M CABLE | |
| 66830023 | 20M CABLE | |
| 66830028 | 25M CABLE | |
| 66830029 | 35M CABLE | |
| | | |



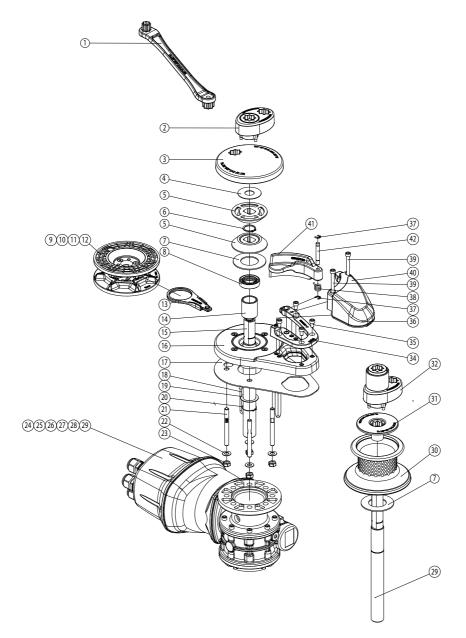
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|--|---|
| 66000799 | WINDLASS HANDLE | 1(1) |
| 66100120 | VX1 GYPSY ONLY TOP CAP KIT | 2(1) |
| 66100121 | VX1 BASE KIT | 9(1), 10(1), 11(1), 30(1), 31(4) |
| 66100123 | VX1 CHAIN COVER AND CONTROL ARM KIT | 23(1), 24(1), 25(1), 26(1), 27(1), 28(1), 29(1), 32(1), 33(1) |
| 66100124 | VX1 DRUM KIT | 3(1), 21(1), 22(1), |
| 66100125 | VX1 GYPSY ONLY DRIVE KIT | 2(1), 3(1), 5(1), 12(1), 18(1), 19(1) |
| 66100126 | VX1 GYPSY DRUM DRIVE KIT | 2(1), 3(2), 5(1), 18(1), 19(1), 20(1), 21(1), 22(1) |
| 66100127 | VX1 MANUAL AND KIT | 1(1), 13(1), 15(4), 16(4), 17(4) |
| 68100033 | VX18MM GYPSY & STRIPPER ASSEMBLY | 3(1), 4(2), 6(1), 7(1) |
| 68100034 | VX16/7MM1/4" GYPSY & STRIPPER ASSEMBLY | 3(1), 4(2), 6(1), 8(1) |
| 68100035 | VX1 12V 300W IP67 RMU40 M/GB0X | 34(1) |
| 68100036 | VX1 12V 500W IP67 RMU40 M/GBOX | 35(1) |

VXIL Parts list



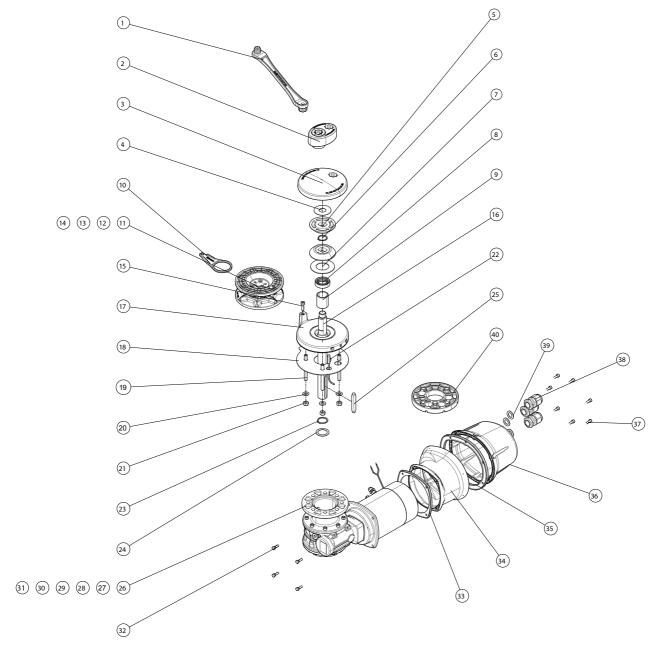
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|-----------------------------------|---|
| 66000799 | WINDLASS HANDLE | 1(1) |
| 66100120 | VX1 GO TOP CAP KIT | 2(1) |
| 66100122 | VX1L BASE UNIT | 10(4), 11(1), 12(1), 28(1), 29(4) |
| 66100123 | VX1 CHAIN COVER ® C/ARM KIT | 30(1), 31(1), 32(1), 33(1), 34(1), 35(1), 36(1), 37(1), 38(1) |
| 66100124 | VX1 DRUM KIT | 3(1), 26(1), 27(1) |
| 66100128 | VX1L MANUAL AND KIT | 1(1), 13(1), 14(3), 15(3), 16(3) |
| 66100129 | VX1L GO DRIVE KIT | 2(1), 3(1), 7(2), 9(1) |
| 66100130 | VX1L GD DRIVE KIT | 3(2), 7(2), 25(1), 26(1), 27(1) |
| 66100135 | VX1L 12V 500 M/G-B0X ASSY | 17(1), 18(1), 19(1), 23(1), 24(1) |
| 66100136 | VX1L 24V 500 M/G-B0X ASSY | 17(1), 18(1), 20(1), 23(1), 24(1) |
| 66100137 | VX1L 12V 800 M/G-B0X ASSY | 17(1), 18(1), 21(1), 23(1), 24(1) |
| 66100138 | VX1L 24V 800 M/G-B0X ASSY | 17(1), 18(1), 22(1), 23(1), 24(1) |
| 66100139 | VX1L/HX1 12V 500 MOTOR ASSY | 19(1) |
| 66100140 | VX1L/HX1 24V 500 MOTOR ASSY | 20(1) |
| 66100141 | VX1L/HX1 12V 800 MOTOR ASSY | 21(1) |
| 66100142 | VX1L/HX1 24V 800 MOTOR ASSY | 22(1) |
| 68100033 | VX1 8MM GYPSY ST/ST STRIPPER ASSY | 3(1), 4(2), 5(1), 8(1) |
| 68100034 | VX1 6/7MM 1/4" GYPSY ASSY ST/ST | 3(1), 4(2), 6(1), 8(1) |

VX2/3 Parts List

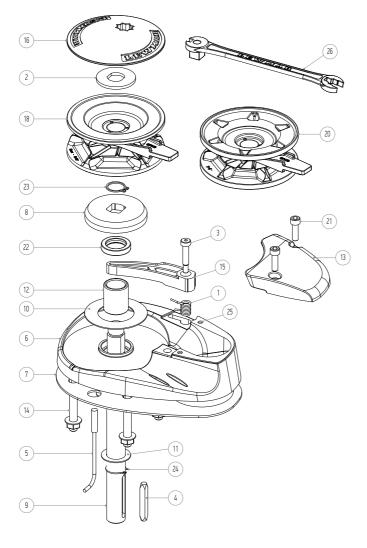


| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|---|---|
| 66000799 | WINDLASS HANDLE | 1(1) |
| 66120001 | VX2/3 GO TOP CAP REPLACEMENT | 3(1) |
| 66120002 | VX2/3 BASE KIT | 8(1), 14(1), 16(1), 18(1), 34(1), 35(4), 37(1), 42(1) |
| 66120003 | VX2/3 CHAIN COVER KIT | 39(2), 40(1) |
| 66120004 | VX2/3 CONTROL ARM KIT | 37(2), 38(1), 41(1), 42(1) |
| 66120005 | VX2/3 DRUM KIT | 7(1), 30(1), 31(1) |
| 66120006 | VX2/3 GYPSY ONLY DRIVE KIT | 3(1), 6(1), 15(1), 19(1), 20(1) |
| 66120007 | VX2/3 DRUM DRIVE KIT | 6(1), 19(1), 20(1), 29(1) |
| 66120008 | VX2/3 MANUAL ℚ KIT | 1(1), 17(1), 21(4), 22(4), 23(4) |
| 66120009 | VX2/3 GO MANUAL RECOVERY RETAIL KIT | 2(1) |
| 66120010 | VX2/3 GD MANUAL RECVOERY RETAIL KIT | 32(1) |
| 66120011 | VX2/3 STRIPPER RING REPLACEMENT | 13(1) |
| 68120031 | VX2 MOTOR G/BOX 700W 12V SZ50 IP ASSY | 24(1) |
| 68120032 | VX2 MOTOR G/BOX 900W 24V SZ50 IP ASSY | 25(1) |
| 68120033 | VX2+ MOTOR G/BOX 1000W 24V SZ50 IP ASSY | 26(1) |
| 68120034 | VX2+ MOTOR G/BOX 1000W 12V SZ50 IP ASSY | 27(1) |
| 68120035 | VX3 1500W 12V M/G-BOX | 28(1) |
| 68120036 | VX3 MOTOR G/BOX 1500W 24V SZ50 IP ASSY | 28(1) |
| 68120040 | GYPSY ASSY 6/7MM VX2/3 ST/ST | 4(1), 5(2), 7(1), 9(1), 13(1) |
| 68120041 | GYPSY ASSY 8MM VX2/3 ST/ST | 4(1), 5(2), 7(1), 9(1), 14(1) |
| 68120042 | GYPSY ASSY10MM DIN VX2/3 ST/ST | 4(1), 5(2), 7(1), 9(1), 15(1) |
| 68120043 | GYPSY ASSY 10MM ISO VX2/3 ST/ST | 4(1), 5(2), 7(1), 9(1), 16(1) |

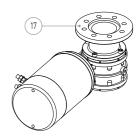
RX Parts list



| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|---|---|
| 66000799 | WINDLASS HANDLE | 1(1) |
| 66100143 | VX THIN DECK SPACER | 40(1) |
| 66120001 | VX2/3 GO TOP CAP REPLACEMENT | 3(1) |
| 66120006 | VX2/3 GYPSY ONLY DRIVE KIT | 3(1), 6(1), 16(1), 23(1), 24(1), 25(1) |
| 66120009 | VX2/3 GO MANUAL RECOVERY RETILA KIT | 2(1) |
| 66120011 | VX2/3 STRIPPER RING REPLACEMENT | 10(1) |
| 66120012 | RMU50 IP COVER KIT | 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 66120013 | RX DECK UNIT KIT | 8(1), 9(1), 15(1), 17(1), 22(1) |
| 66120014 | RX MANUAL AND KIT | 1(1), 18(1), 19(4), 20(4), 21(4) |
| 68120031 | VX2 MOTOR G/BOX 700W 12V SZ50 IP ASSY | 26(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120032 | VX2 MOTOR G/BOX 900W 24V SZ50 IP ASSY | 27(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120033 | VX2+ MOTOR G/BOX 1000W 24V SZ50 IP ASSY | 28(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120034 | VX2+ MOTOR G/BOX 1000W 12V SZ50 IP ASSY | 29(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120035 | VX3 MOTOR G/BOX 1500W 12V SZ50 IP ASSY | 30(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120036 | VX3 MOTOR G/BOX 1500W 24V SZ50 IP ASSY | 31(1), 32(4), 33(1), 34(1), 35(1), 36(1), 37(7), 38(3), 39(3) |
| 68120040 | GYPSY ASSY 6/7MM VX2/3 ST/ST | 4(1), 5(2), 7(1), 10(1), 11(1) |
| 68120041 | GYPSY ASSY 8MM VX2/3 ST/ST | 4(1), 5(2), 7(1), 10(1), 12(1) |
| 68120042 | GYPSY ASSY 10MM DIN VX2/3 ST/ST | 4(1), 5(2), 7(1), 10(1), 13(1) |
| 68120043 | GYPSY ASSY 10MM ISO VX2/3 ST/ST | 4(1), 5(2), 7(1), 10(1), 14(1) |

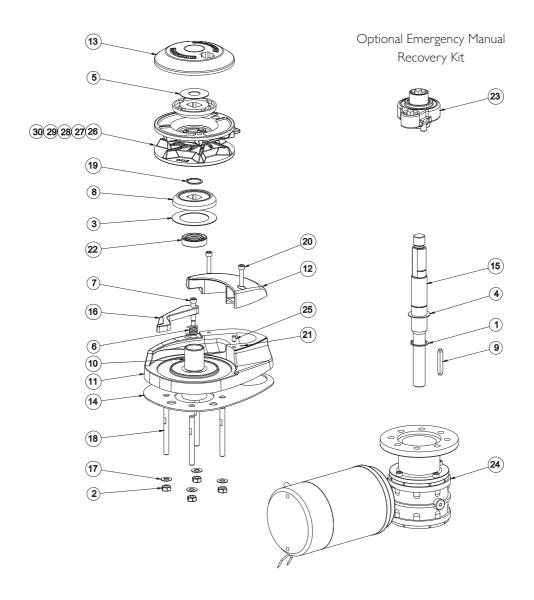






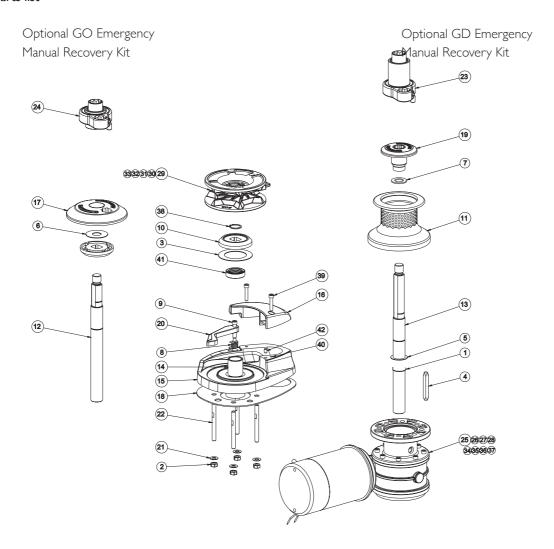
| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|--|---------------------------------|
| 66000770 | BASE KIT | 6(1), 12(1), 22(1), 25(2) |
| 66000771 | CHAIN COVER KIT | 13(1), 21(2) |
| 66000601 | GYPSY CAP KIT | 2(1), 16(1) |
| 66000772 | CONE AND WASHER KIT | 2(1), 8(1), 10(1) |
| 66000600 | CONTROL ARM KIT | 1(1), 3(1), 15(1) |
| 66000773 | MOUNTING KIT | 7(1),14(1) |
| 66000774 | DRIVESHAFT KIT | 4(1), 9(1), 11(1), 23(1), 24(1) |
| 68001123 | 8MM - 5/16" GYPSY AND STRIPPER KIT | 18(1) |
| 68001126 | 6MM -7MM -1/4" GYPSY AND STRIPPER KIT | 20(1) |
| 68001125 | 12V, 500W MGB AND CONTACTOR | 19(1) |
| 68001035 | 12V, 700W MGB AND CONTACTOR | 17(1) |
| 66000805 | CLUTCH LEVER | 26 (1) |

CPXI Parts list



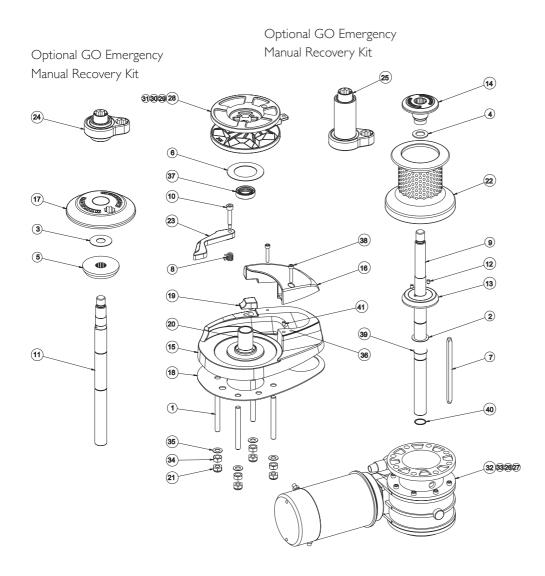
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|-------------------------------|---|
| 66000791 | BASE KIT | 3(1), 6(1), 7(1), 10(1), 11(1), 12(1), 16(1), 20(2), 21(2), 22(1), 25(1) |
| 66000792 | CHAIN COVER KIT | 12(1), 20(2) |
| 66000741 | GYPSY ONLY TOP NUT KIT | 5(1), 13(1) |
| 66000720 | CONES ® WASHER KIT | 3(1), 5(1), 8(2) |
| 66810030 | CONTROL ARM KIT | 6(1), 7(1), 16(1) |
| 66000793 | MOUNTING KIT | 2(4), 14(1), 17(4), 18(4) |
| 66000743 | DRIVESHAFT KIT | 1(1), 4(1), 9(1), 15(1), 19(1) |
| 68001042 | 12V MOTOR GEARBOX ® CONTACTOR | 24(1) |
| 66840084 | GYPSY ONLY EMERGENCY KIT | 23(1) |
| 68001047 | GYPSY ® STRIPPER KIT (006) | 26(1) |
| 68001048 | GYPSY ® STRIPPER KIT (000) | 27(1) |
| 68001049 | GYPSY ® STRIPPER KIT (001) | 28(1) |
| 68001050 | GYPSY ® STRIPPER KIT (002) | 29(1) |
| 68001051 | GYPSY ® STRIPPER KIT (003) | 30(1) |

CPX2/3 Parts list

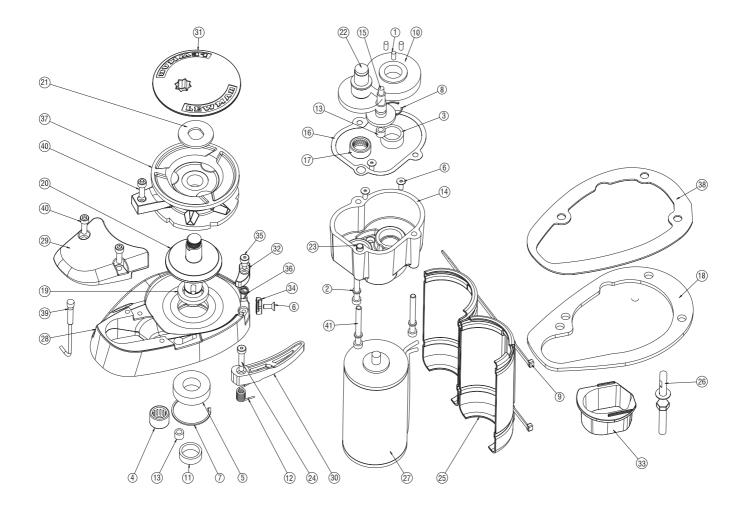


| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|------------------------------------|---|
| 66000791 | BASE KIT | 3(1), 8(1), 9(1), 14(1), 15(1), 16(1), 20(1), 39(2), 40(2), 41(1), 42(1) |
| 66000792 | CHAIN COVER KIT | 16(1), 39(2) |
| 66000741 | GYPSY ONLY TOP NUT KIT | 6(1), 17(1) |
| 66000744 | GYPSY/DRUM TOP NUT KIT | 7(1), 19(1) |
| 66000745 | DRUM KIT | 7(1), 11(1), 19(1) |
| 66000720 | CONES ® WASHER | 3(1), 6(1), 10(2) |
| 66810030 | CONTROL ARM KIT | 8(1), 9(1), 20(1) |
| 66000713 | MOUNTING KIT | 2(4), 18(1), 21(4), 22(4) |
| 66000746 | GYPSY ONLY DRIVESHAFT KIT | 1(1), 4(1), 5(1), 12(1), 38(1) |
| 66000747 | GYPSY/DRUM DRIVESHAFT KIT | 1(1), 4(1), 5(1), 13(1), 38(1) |
| 66840056 | GYPSY/DRUM EMERGENCY KIT | 23(1) |
| 66840084 | GYPSY ONLY EMERGENCY KIT | 24(1) |
| 68001048 | GYPSY ® STRIPPER KIT (000) | 30(1) |
| 68001049 | GYPSY ® STRIPPER KIT (001) | 31(1) |
| 68001050 | GYPSY ® STRIPPER KIT (002) | 32(1) |
| 68001051 | GYPSY ® STRIPPER KIT (003) | 33(1) |
| 68001047 | GYPSY ® STRIPPER KIT (006) | 29(1) |
| 68001043 | CPX2 12V MOTOR GEARBOX ® CONTACTOR | 25(1) |
| 68001044 | CPX2 24V MOTOR GEARBOX ® CONTACTOR | 26(1) |
| 68001045 | CPX3 12V MOTOR GEARBOX ® CONTACTOR | 27(1) |
| 68001046 | CPX3 24V MOTOR GEARBOX ® CONTACTOR | 28(1) |
| 68001073 | CPX2 12V IP68 MGB - NO CABLES | 34(1) |
| 68001074 | CPX2 24V IP68 MGB - NO CABLES | 35(1) |
| 68001075 | CPX3 12V IP68 MGB - NO CABLES | 36(1) |
| 68001076 | CPX3 24V IP68 MGB - NO CABLES | 37(1) |

CPX4/5 Parts list

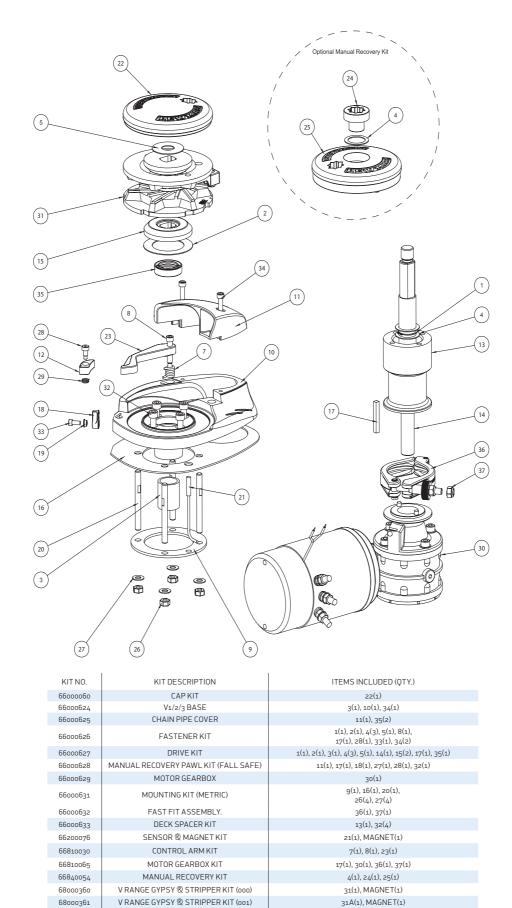


| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|----------------------------|---|
| 66000794 | BASE KIT | 15(1), 16(1),19(1), 20(1), 36(2), 37(1), 38(2), 41(1). |
| 66000795 | CHAIN COVER KIT | 16(1), 38(2) |
| 66000750 | TOP NUT KIT GYPSY ONLY | 3(1), 17(1) |
| 66000744 | TOP NUT KIT GUPSY DRUM | 4(1), 14(1) |
| 66000751 | DRUM KIT | 4(1), 14(1), 22(1) |
| 66000752 | CONES ® WASHER | 3(1), 5(1), 6(1), 12(2), 13(1) |
| 66810031 | CONTROL ARM KIT | 8(1), 10(1), 23(1) |
| 66000796 | MOUNTING KIT | 1(4), 18(1), 21(4), 34(4), 35(4) |
| 66000754 | DRIVESHAFT KIT GYPSY ONLY | 2(1), 7(1), 11(1), 12(2), 13(1), 39(1), 40(1) |
| 66000755 | DRIVESHAFT KIT GUPSY DRUM | 2(1), 7(1), 9(1), 12(2), 13(1), 39(1), 40(1) |
| 66840003 | EMERGENCY KIT GYPSY ONLY | 24(1) |
| 66840005 | EMERGENCY KIT GUPSY DRUM | 25(1) |
| 68001063 | GYPSY ® STRIPPER KIT (201) | 28(1) |
| 68001064 | GYPSY ® STRIPPER KIT (202) | 29(1) |
| 68001065 | GYPSY ® STRIPPER KIT (203) | 30(1) |
| 68001066 | GYPSY ® STRIPPER KIT (204) | 31(1) |
| 68001077 | CPX4 12V MGB | 32(1) |
| 68010878 | CPX4 24V MGB | 33(1) |



| | I | 1 |
|----------|---------------------------|--|
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
| 66000099 | CLUTCH LEVER | CLUTCH LEVER (1) |
| 66000600 | CONTROL ARM KIT | 12(1), 24(1), 30(1) |
| 66000601 | GYPSY CAP KIT | 21(1), 31(1) |
| 66000602 | MOUNTING KIT 5/16" USA | 18(1), 26A(1), 33(1), 38(1) |
| 68001024 | GYPSY RC 1/4"G4 ® 7MM KIT | 37A(1), 40(1) |
| 68001024 | GYPSY RC 6 MM DIN 766 KIT | 37B(1), 40(1) |
| 66000605 | MOUNTING KIT METRIC | 18(1), 26B(1), 33(1), 38(1) |
| 66000606 | CHAIN PIPE COVER | 29(1), 40(2) |
| 66000607 | FALL SAFE KIT | 6(1), 32(1), 34(1), 35(1), 36(1) |
| 66000608 | BEARING/SEAL KIT | 3(1), 4(1), 5(1), 7(1), 13(2), 16(1), 17(1), 19(1) |
| 66000609 | DRIVESHAFT KIT | 1(3), 8(1), 11(1), 16(1), 20(1), 21(1) |
| 66000610 | MOTOR KIT | 6(3), 9(2), 16(1), 25(1), 27(1) |
| 66000611 | GEARCASE COMPLETE | 2(3), 3(1), 13(1), 14(1), 16(1), 17(1), 23(1), 41(3) |
| 66000612 | GEAR SET | 1(3), 8(1), 10(1), 15(1), 16(1), 22(1) |
| 66000613 | COMPOUND GEAR ASSY. | 16(1), 22(1) |
| 66000614 | 1ST COMPOUND GEAR | 15(1), 16(1) |
| 66000615 | MAGNET ® SENSOR KIT | 39(1) |
| | | |

VI Parts list



68000361

68000362

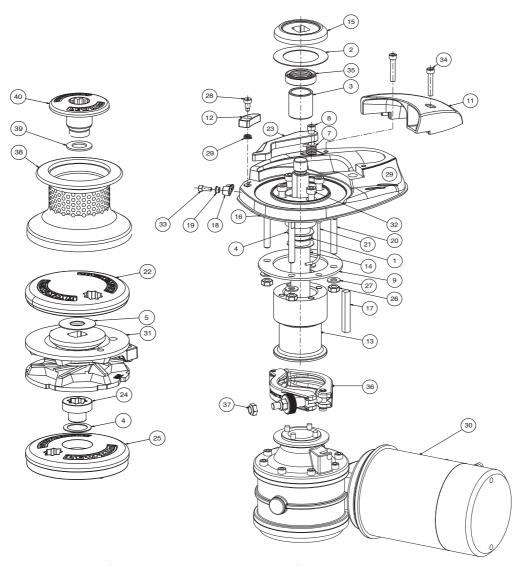
68000840

V RANGE GYPSY ⊗ STRIPPER KIT (002)

V RANGE GYPSY & STRIPPER KIT (006)

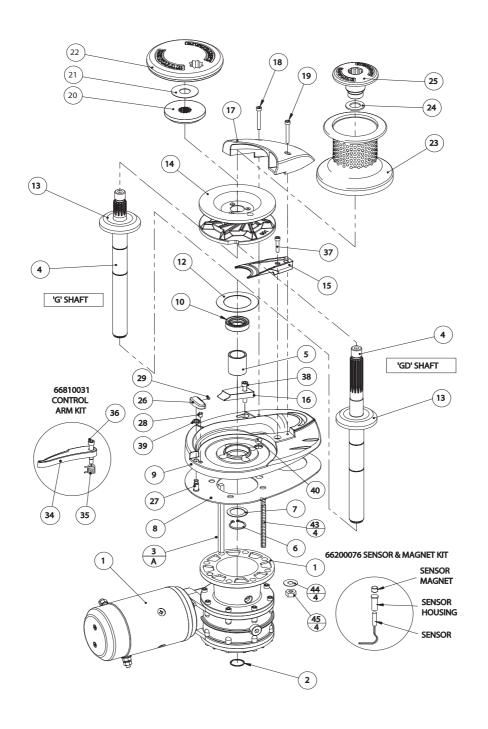
31B(1), MAGNET(1)

31C(1), MAGNET(1)

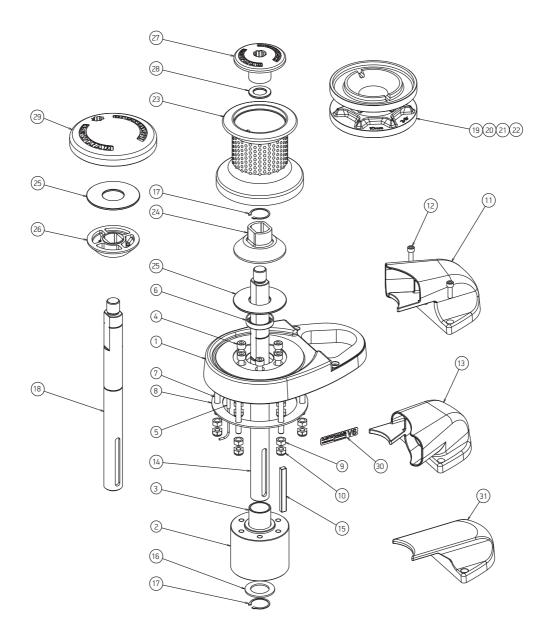


| KIT NO. | DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|---|---|
| 66000060 | CAPKIT | 22(1), 5(1) |
| 66000624 | V ₁ /V ₂ /V ₃ BASE | 3(1), 10(1), 35(1) |
| 66000625 | CHAIN PIPE COVER | 11(1), 34(2) |
| 66000626 | FASTENER KIT | 1(1), 2(1), 4(3), 5(1), 6(1), 8(1), 17(1), 28(1), 33(1), 34(2 |
| 66000641 | DRIVE KIT V2/V3 GYPSY ONLY | 1(1), 2(1), 3(1), 4(3), 5(1), 14(1), 15(2), 17(1), 35(1) |
| 66000628 | MANUAL RECOVERY PAWL KIT (FALL SAFE) | 12(1), 18(1), 19(1), 28(1), 29(1), 33(1) |
| 66000640 | DRUM KIT V2/V3 FAST FIT | 38(1), 39(1), 40(1) |
| 66000065 | DRUM TOP NUT | 39(1), 40(1) |
| 66000642 | DRIVE KIT V2/V3 GYPSY DRUM | 1(1), 2(1), 3(1), 4(3), 5(1), 14(1), 15(2), 17(1), 35(1) |
| 66000631 | MOUNTING KIT (METRIC) | 9(1), 16(1), 20(1), 26(4), 27(4) |
| 66000632 | FAST FIT ASSEMBLY | 36(1), 37(1) |
| 66000633 | DECK SPACER KIT | 13(1), 32(4) |
| 66200076 | SENSOR ® MAGNET KIT | 21(1), MAGNET(1) |
| 66810030 | CONTROL ARM KIT | 7(1), 8(1), 23(1) |
| 66840054 | MANUAL RECOVERY KIT (GYPSY ONLY) | 4(1), 24(1), 25(1) |
| 68000360 | V RANGE GYPSY & STRIPPER KIT (000) | 31(1), MAGNET(1) |
| 68000361 | V RANGE GYPSY & STRIPPER KIT (001) | 31(1), MAGNET(1) |
| 68000362 | V RANGE GYPSY & STRIPPER KIT (002) | 31(1), MAGNET(1) |
| 68000363 | V RANGE GYPSY & STRIPPER KIT (003) | 31(1), MAGNET(1) |
| 68000813 | 12V V2 FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 68000814 | 24V V2 FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 68000815 | 12V V3 FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 68000816 | 24V V3 FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 68000527 | 12V V2 NON -FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 68000538 | 24V V2 NON-FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 66810007 | 12V V3 NON-FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 66810008 | 24V V3 NON-FAST-FIT MOTOR GEARBOX ASSEMBLY | 30(1), 36(1), 37(1) |
| 66840056 | V2/V3 GYPSY/DRUM MANUAL RECOVERY KIT | NOT SHOWN |

V4/5 Parts list



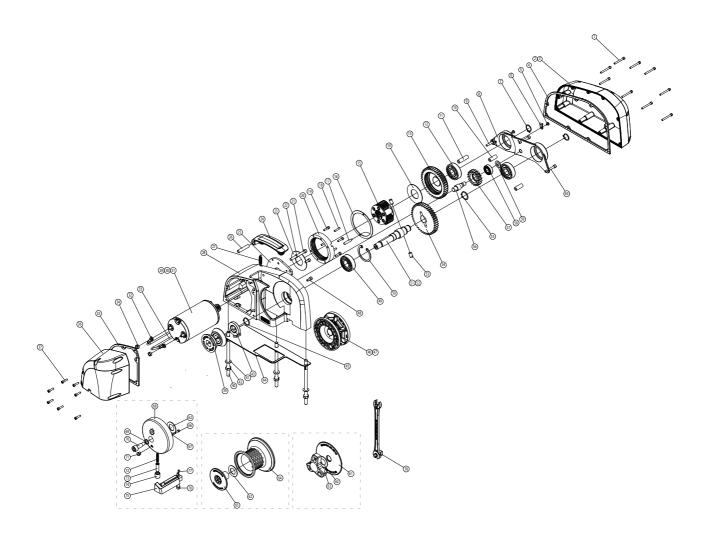
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
|----------|--------------------------------|---|
| 66000065 | DRUM TOP NUT | 24(1), 25(1) |
| 66000070 | FASTENER/DRIVE | 2(1), $3A(1)$, $3B(1)$, $6(1)$, $7(1)$, $18(1)$, $19(1)$, $21(1)$, $24(1)$, $28(1)$, $29(1)$, $32(4)$, $33(8)$, $37(1)$, $38(1)$, $40(5)$, $43(4)$, $44(4)$, $45(4)$, HEX KEYS 2, 4, 5 \otimes 6 MM |
| 66000071 | MAINSHAFT ASSEMBLY, GYPSY/DRUM | 4A(1), 13(1) |
| 66000072 | MAINSHAFT ASSEMBLY, GYPSY ONLY | 4B(1), 13(1) |
| 66000073 | BEARING/SEAL | 5(1), 8(1), 12(1), 12A(1) |
| 66000075 | STRIPPER/PAWL | 15(1), 16(1), 26(1), 28(1), 29(1), 37(1), 38(1), 39(1), HEX KEYS 2, 4, 5 & 6 MM |
| 66000076 | BASE | 5(1), 9(1) |
| 66000077 | CHAIN PIPE COVER | 17(1), 18(1), 19(1), HEX KEY 5 MM |
| 66000079 | SPACER | 3B(1), 30(1), 31(1), 32(4), 33(8) |
| 66810031 | CONTROL ARM KIT | 34(1), 35(1), 36(1), HEX KEYS 4, 5 & 6 MM |
| 66200076 | OPTIONAL SENSOR & MAGNET | SENSOR(1), MAGNET(1) ® HOUSING(1) |



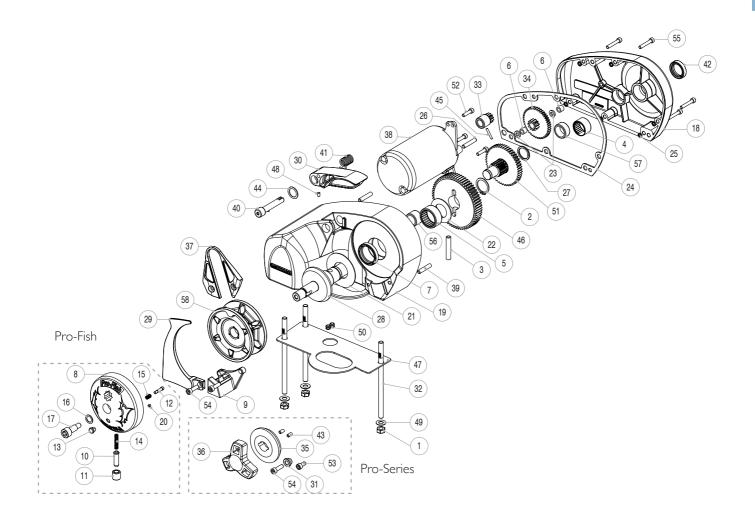
| | | l |
|----------|-------------------------------------|------------------------------------|
| KIT NO. | KIT DESCRIPTION | ITEMS INCLUDED (QTY.) |
| 66000692 | BLANK COVER WITH STRIPPER | 31(1), 12(2) |
| 66000688 | TOP CAP (GYPSY ONLY) | 29(1), 25(1) |
| 66000687 | TOP NUT (GYPSY/DRUM) | 27(1), 28(1) |
| 66000686 | CONE (GYPSY ONLY) | 24(1), 25(2), 26(1) |
| 66000685 | CONE (GYPSY DRUM) | 24(1), 25(1) |
| 66000684 | DRUM | 23(1) |
| 66000683 | 14 MM GYPSY | 22(1) |
| 66000682 | ¹ / ₂ " GYPSY | 21(1) |
| 66000681 | 12 MM GYPSY | 20(1) |
| 66000680 | 10 MM GYPSY | 19(1) |
| 66000679 | MAINSHAFT (GYPSY ONLY) | 18(1), 15(1), 16(1), 17(2) |
| 66000678 | MAINSHAFT (GYPSY/DRUM) | 14(1), 15(1), 16(1), 17(2) |
| 66000677 | R/H CHAIN COVER | 13(1), 12(2) |
| 66000676 | L/H CHAIN COVER | 11(1), 12(2) |
| 66000675 | MOUNTING | 7(6), 8(1), 9(6), 10(6) |
| 66000674 | BASE | 1(1), 2(1), 3(1), 4(6), 5(1), 6(1) |

I. Windlasses

HXI Parts list



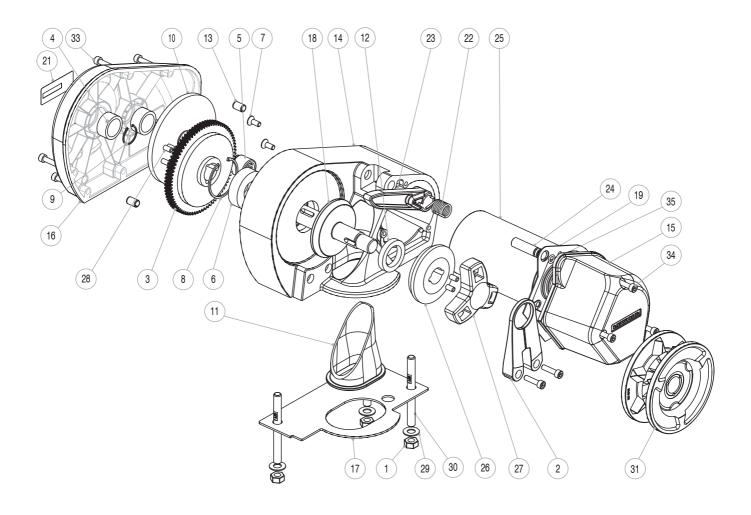
| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|------------------------------|--|
| 66100124 | VX1 DRUM KIT | 62(1), 63(1), 64(1), |
| 66100139 | VX1L/HX1 12V 500 MOTOR ASSY | 29(1) |
| 66100141 | VX1L/HX1 12V 800 MOTOR ASSY | 29(1) |
| 66100142 | VX1L/HX1 24V 800 MOTOR ASSY | 31(1) |
| 66140001 | HX1 GASKET KIT | 4(1), 35(1), 43(1) |
| 66140002 | HX1 DRIVE GO/GF KIT | 12(1), 45(1), 49(1), 50(1), 51(1), 53(2), 54(1), 55(1), |
| 66140003 | HX1 DRIVE GD KIT | 12(1), 45(1), 49(1), 50(1), 52(1), 53(2), 54(1), 55(1), |
| 66140004 | HX1 GEAR TRAIN ASSY 500W 12V | $7(2), 8(1), 9(1), 10(2), 11(1), 12(1), 13(1), 14(1), 15(1), 16(1), 18(2), 19(4), 20(1), 23(1), 25(1), \\29(1), 32(1), 33(1), 34(2), 56(1), 57(1), 58(1), 59(1), 60(2)$ |
| 66140005 | HX1 GEAR TRAIN ASSY 800W 12V | $7(2), 8(1), 9(1), 10(2), 11(1), 12(1), 13(1), 14(1), 15(1), 16(1), 18(2), 19(4), 20(1), 23(1), 25(1), \\ 30(1), 32(1), 33(1), 34(2), 56(1), 57(1), 58(1), 59(1), 60(2)$ |
| 66140006 | HX1 GEAR TRAIN ASSY 800W 24V | $7(2),8(1),9(1),10(2),11(1),12(1),13(1),14(1),15(1),16(1),18(2),19(4),20(1),23(1),25(1),\\31(1),32(1),33(1),34(2),56(1),57(1),58(1),59(1),60(2)$ |
| 66140007 | HX1 GYPSY CAP KIT | 61(1), 62(1), 63(1) |
| 66140008 | HX1 FISH KIT | 62(1), 66(1), 67(1), 68(1), 69(1), 70(1), 71(1), 72(1), 73(1), 74(1), 75(1), 76(1), 77(2) |
| 66140009 | HX1 CONTROL ARM KIT | 21(1), 22(1), 24(1), 26(1) |
| 66140010 | HX1 POLYMER COVER KIT | 2(1), 4(1), 35(1), 36(1) |
| 66140011 | HX1 ALLOY COVER KIT | 3(1), 4(1), 35(1), 37(1) |
| 66140012 | HX1 BASE MATT ® KIT | 40(3), 41(3), 42(3), 44(1), 78(1), |
| 68140009 | HX1 6/7MM 1/4" GYPSY ASSY | 39(2), 46(1) |
| 68140009 | HX18MM GYPSY ASSY | 39(2), 47(1) |



| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|----------------------------------|---|
| 66000096 | PRO-SERIES STRIPPER ARM KIT | 37(1), 53(1), 54(2) |
| 66000098 | PRO-SERIES CLUTCH NUT ⊗ CONE KIT | 35(1), 36(1), 43(2) |
| 66000099 | CLUTCH LEVER | CLUTCH LEVER (NOT SHOWN) |
| 66000101 | 504 GYPSY RC 8MM (5/16") | 58A(1) |
| 66000102 | 516 GYPSY RC 5/16" G4 | 58B(1) |
| 66000768 | PB GYPSY (14-16MM LEADED LINE) | 58C(1) |
| 66000769 | DUAL GYPSY RC 6MM - 7MM -1/4" | 58(1) |
| 66000634 | BEARING KIT | 2(1), 4(1), 5(1), 6(2), 56(1), 57(1) |
| 66000616 | PRO-FISH CONVERSION KIT | 8(1), 9(1), 10(1), 11(1), 12(1), 13(1), 14(1), 15(1), 16(1), 17(1), 20(1), 54(2) |
| 66000617 | PRO-FISH STOPPER KIT | 9(3), 54(2) |
| 66000620 | PRO-FISH DRIVE CAP ASSEMBLY KIT | 8(1), 10(1), 11(1), 12(1), 13(1), 14(1), 15(1), 16(1), 17(1), 20(1) |
| 66000758 | PRO-SERIES WASHER KIT | 21(1), 22(1), 23(2), 27(1) |
| 66000759 | PRO-SERIES GASKET KIT | 24(1), 25(6) |
| 66000760 | PRO-SERIES COUMPOUND GEAR KIT | 5(1) |
| 66000761 | PRO-SERIES GEARS ® SHAFT KIT | 2(1), 3(1), 6(2), 23(2), 28(1), 33(1), 34(1), 45(1), 46(1), 51(1) |
| 66000762 | PRO-SERIES GEAR TRAIN COVER KIT | 4(1), 18(1), 24(1), 25(6). 42(1), 55(6), 57(1) |
| 66000763 | PRO-SERIES 12V MOTOR KIT | 26(1), 33(1), 38(1), 45(1), 50(2), 52(3) |
| 66000764 | PRO-SERIES SEALS ® SCREW KIT | 2(1), 3(1), 7(1), 24(1), 25(6), 26(1), 39(2), 42(1), 43(2), 45(1), 52(3), 53(2), 54(3), 55(6) |
| 66000766 | PRO-GUARD / CONTROL ARM KIT | 29(1), 30(1), 31(1), 41(1), 44(1), 48(1), 54(3) |

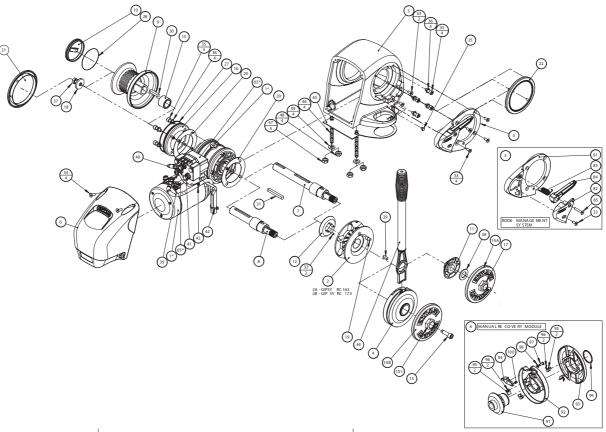
I. Windlasses

Pro-Sport Parts list



| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|-------------------------------|--|
| 66000098 | CLUTCH NUT & CONE KIT | 26(1), 27(1), 28(2) |
| 66000099 | CLUTCH LEVER KIT | CLUTCH LEVER (NOT SHOWN) |
| 66000769 | GYPSY DUAL | 31(1) |
| 6052907 | FLEMING, ROPE / CHAIN | 2(1) |
| 6052904 | 12V / 150W ELECTRIC MOTOR | 25(1), 7(3) |
| 6052945 | COMPOUND GEAR AS- SEMBLY | 10(1) |
| 66000643 | P-SPORT FASTNER KIT | 1(3), 7(3), 8(1), 9(1), 13(2), 24(1), 33(8), 34(3) |
| 66000644 | P-SPORT MOUNTING KIT | 1(3), 17(1), 29(3), 30(3) |
| 66000645 | P-SPORT BEARING & SEAL KIT | 4(2), 5(1), 6(1), 12(1), 35(1) |
| 66000646 | P-SPORT MAIN SHAFT KIT | 9(1), 18(1), 28(5) |
| 66000647 | P-SPORT GEAR CASE KIT | 4(2), 16(1) |
| 66000648 | P-SPORT MOTOR COVER KIT | 15(1), 19(1) |
| 66000649 | CONTROL ARM KIT | 22(1), 23(1), 24(1), 35(1) |
| 66000650 | P-SPORT GEAR KIT | 3(1), 10(1), 28(3) |
| 66000651 | P-SPORT MAIN CASE | 5(1), 6(1), 8(1), 12(1), 14(1), |
| 529-075 | CHAIN PIPE SLEEVE | 11(1) |

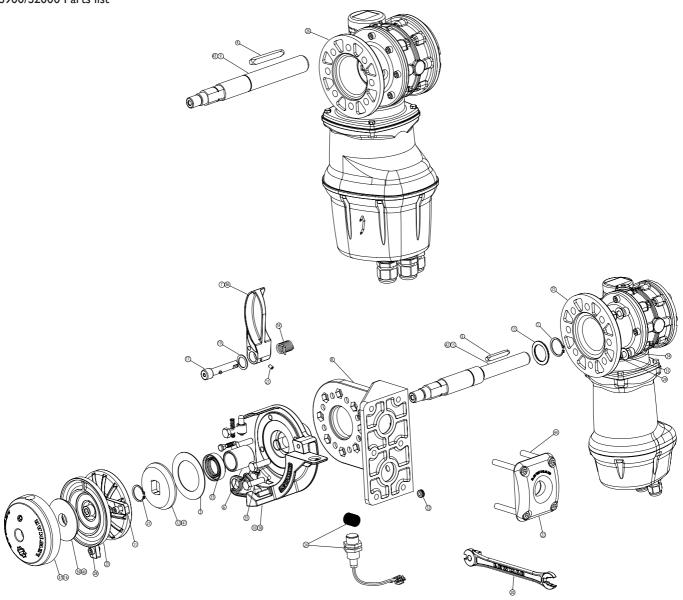
H2/H3 Parts list



| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|--|---|
| 66000002 | MOTOR/GEARBOX 12V H2 ASSEMBLY | 1A, 68 (3), 69 (3) |
| 66000003 | MOTOR/GEARBOX 24V H2 ASSEMBLY 1B, | 1B, 68 (3), 69 (3) |
| 66000004 | MOTOR/GEARBOX 12V H3 ASSEMBLY | 1C, 68 (3), 69 (3) |
| 66000005 | MOTOR/GEARBOX 24V H3 ASSEMBLY | 1D, 68 (3), 69 (3) |
| 66000006 | RC 10MM GYPSY ASSEMBLY (RC163) | 2A |
| 66000007 | RC 8MM GYPSY ASSEMBLY (RC173) | 2B |
| 66000008 | RMS MODULE | 33 (5), 81, 82, 83, 84, 85 |
| 66000009 | MANUAL RECOVERY MODULE | 91, 92, 93, 94, 95 (4), 96 (4), 97, 98, 99, 100 |
| 66000010 | FRONT CASE KIT | 5, 45 |
| 66000011 | REAR CASE | 6 |
| 66000012 | MAINSHAFT, GYPSY/DRUM | 7 |
| 66000013 | MAINSHAFT, GYPSY ONLY | 8 |
| 66000014 | DRUM | 9 |
| 66000015 | DRUM CAP | 10 |
| 66000016 | DRIVE CONE KIT | 11, 12 |
| 66000017 | GYPSY CAP ℚ CLUTCH NUT ASSEMBLY, STANDARD | 14A, 17 |
| 66000018 | GYPSY CAP & CLUTCH NUT ASSEMBLY, MANUAL RECOVERY VERSION | 14B, 101 |
| 66000019 | GEARBOX SUPPORT | 16 |
| 66000020 | COVERPLATE KIT | 21,22 |
| 66000021 | MANUAL RECOVERY OPERATING HANDLE | 44 |
| 66000022 | CONTACTOR KIT 12V | 63A, 64 |
| 66000023 | CONTACTOR KIT 24V | 63B, 64 |
| 66000024 | LINK SET KIT | 64, 65A (PR), 65B (PR) |
| 66000025 | CONTROL ARM KIT | 33, 83, 84, 85 |
| 66840045 | MANUAL RECOVERY DRIVE KIT | 13, 19, 94, 95 (4), 96 (4), 97, 98, 99, 100 |
| 66000027 | FASTENER KIT | 18, 33 (7), 34 (4), 35 (8), 36 (8), 37, 38, 45, 46 (4), 47 (4), 48 (4), 49 (4), 68 (3), 69 (3), 85 |
| 66000028 | DRIVE KEY KIT | 15, 29, 30, 31, 32 (2) |
| 66000029 | SEAL KIT | 20 (2), 25, 27, 28 |
| 66000030 | CABLE KIT | 39, 40, 41, 42 (3) |
| | OPTIONAL UPGRADE KIT TO ADD | MANUAL RECOVERY |
| 66840045 | MANUAL RECOVERY UPGRADE KIT | 4, 13, 14B, 19, 44, |
| | | |

I. Windlasses

S900/S2000 Parts list



| KIT NO | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|--|-----------------------------------|
| 6600842 | GEN 2 PORT CONTROL ARM KIT | 7(1), 17(1), 18(1), 19(1), 21(1) |
| 66000843 | GEN ≥ STBD CONTROL ARM KIT | 36(1), 17(1), 18(1), 19(1), 21(1) |
| 6600099 | CLUTCH LEVER | 20(1) |
| 66000833 | GEN 2 PORT DRIVE CAP | 16(1) |
| 66000832 | GEN 2 STBD DRIVE CAP | 37(1) |
| 66000834 | GEN 2 BULKHEAD UNIT | 22(1), 44(4) |
| 66000835 | GEN 2 MOUNTING BRACKET KIT | 8(1), 32(2), 35(4) |
| 66000844 | GEN 2 PORT STOPPER CAM/ ROPE GUIDE KIT | 6(1), 10(1), 33(1), 35(4) |
| 66000845 | GEN 2 STBD STOPPER CAM/ ROPE GUIDE KIT | 38(1), 6(1), 33(1), 35(4) |
| 66000810 | GYPSY | 23(1) |
| 66000811 | STRIPPER KIT | 11(1), 28(2) |
| 66000836 | GEN 2 PORT DRIVE CONE KIT | 3(1), 12(1), 27(1), 39(1) |
| 66000837 | GEN 2 STBD DRIVE CONE KIT | 40(1), 41(1), 3(1), 27(1) |
| 66000839 | Sgoo PORT DRIVESHAFT KIT | 1(1), 5(1), 13(1), 15(1) |
| 66000838 | Sgoo STBD DRIVESHAFT KIT | 42(1), 1(1), 5(1), 13(1) |
| 66000841 | S2000 PORT DRIVESHAFT KIT | 1(1), 4(1), 43(1), 13(1) |
| 66000840 | S2000 STBD DRIVESHAFT KIT | 4(1), 9(1), 1(1), 13(1) |
| 66001190 | AUTOSTOP | 24(1) |
| 66000816 | Sgoo MOTOR/ GEARBOX | 25(1), 35(4), 29(4), 31(4), 34(4) |
| 66000817 | S2000 MOTOR/GEARBOX | 26(1), 35(4), 29(4), 31(4), 34(4) |



With a wide range styles available, Lewmar anchors cater for all boat types including power and sail

from 18ft - 250ft. Smaller boats can utilise our folding designs for ease of storage; larger vessels can fit an integrated Lewmar anchor and bow roller solution.



The Lewmar Anchor Range



Page 82 Epsilon Anchor

Lewmars new Epsilon anchor builds upon the iconic Delta® anchor's robust design and overall quality. Available in both manganese steel for the galvanised version and 316/2205 duplex steel combination for the stainless version. This new anchor is fully compatible with Lewmar bow rollers and is available in a range of sizes.



Page 84 LFX Anchor

The new LFX anchor has been developed to complement our existing range of anchors, offering a stylish and practical design. The LFX features large alloy flukes to ensure high holding power at a greatly reduced

Foldable for easy stowage, the LFX is an ideal solution for smaller vessels.



Page 86 Delta® Anchor



The Delta® anchor is constructed of high-grade manganese steel and duplex stainless steel for maximum tensile strength. Its unique shank profile and ballasted tip make it self-launching, and its low centre of gravity and self-righting geometry ensure that it will set immediately.

Consistent and reliable in performance, the Delta® anchor is guaranteed for life against breakage¹, is Lloyd's Register, high holding power approved² and is specified as the primary anchor used by numerous National Lifeboat organizations.



Page 88 DTX anchor

Lewmar's DTX anchor fills the gap between the galvanised and stainless Delta® anchors, allowing boat owners to choose a stainless anchor.

The DTX brings the improved aesthetics and anti-corrosion qualities of stainless steel anchors to the mass market.





Page 90 CQR® Anchor

The $CQR^{(0)}$ anchor has gained an industry-leading reputation for its superior performance. The original drop-forged construction of the $CQR^{(0)}$ anchor increases its strength and reliability under load. Its hinged shank delivers consistent setting and holding even in the very worst conditions. The $CQR^{(0)}$ anchor is guaranteed for life against breakage¹ and is Lloyd's Register, high holding power approved².



Page 92 Claw Anchor

Design based on anchors used to secure oil rigs in the North Sea. The Claw anchor is constructed of high-grade galvanised or stainless steel cast in a single piece. It sets effortlessly, holds in a variety of seabeds and stows easily on the bow roller of most boats.



Page 94 LFF Anchor

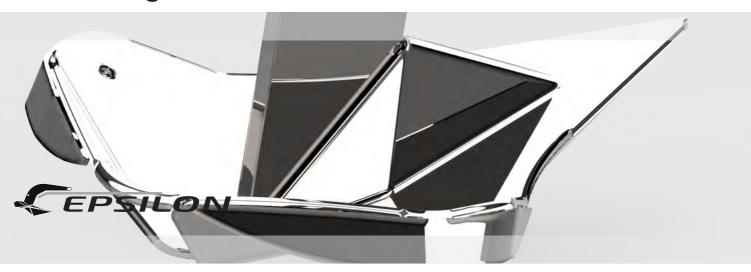
Being a lightweight simple anchor, the LFF anchor is a strong secondary anchor to have on-board. A folding design provides simple stowage and different anchoring possibilities.



Page 96 Kedge Anchor

Our Lewmar Kedge anchors are available in a range of sizes and galvanised or stainless steel. For larger yachts, the Kedge anchor is seen in twin, through-hull installations.

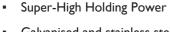
 $^{^{\}rm I}$ Damage by deformation or bending is not covered by this guarantee. $^{\rm 2}$ Lloyd's Test Certificate is available for individual anchors by arrangement.



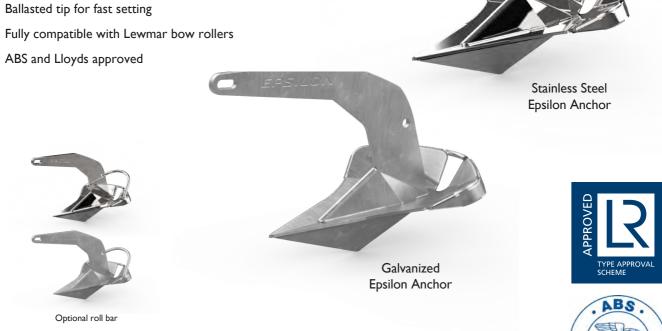
Epsilon Anchor

The Epsilon super-high holding power anchor builds upon the legendary Delta® anchor's robustness and quality. Its concave fluke and ballast keel ensure market-leading holding power and rapid setting, while maintaining self-launching characteristics with Lewmar bow rollers and retaining the same shank geometry as the original Delta[®].

Time-proven materials are used throughout the range: manganese steel or 316 stainless steel for maximum strength.



- Galvanised and stainless steel versions
- Anti-snagging design
- Optional roll bar for sailboat application
- Full range from 6kg 63kg



 $\ensuremath{^{\text{I}}}\xspace\mathrm{Damage}$ by deformation or bending is not covered by this guarantee ${}^2\text{Lloyd's Test Certificate available of individual Epsilon anchors by arrangement} - please speak to your Lewmar representative and the property of the$

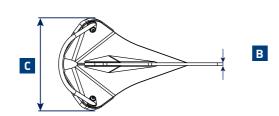


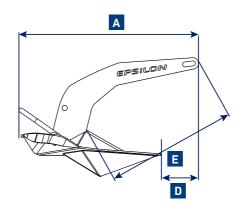
Selection guide

| | o | | | | | | | | | |
|--------|----------|-------|---------------------|--------|--------|-------|-------|-------|--------|--|
| ANCHOR | R WEIGHT | | BOAT LENGTH OVERALL | | | | | | | |
| | | 6 м | 9.2 M | 12.2 M | 15.2 M | | | | 27.4 M | |
| KG | LB | 20 FT | 30 FT | 40 FT | 50 FT | 60 FT | 70 FT | 80 FT | 90 FT | |
| 6 | 14 | | | | | | | | | |
| 10 | 22 | | | | | | | | | |
| 16 | 35 | | | | | | | | | |
| 20 | 44 | | | | | | | | | |
| 25 | 55 | | | | | | | | | |
| 32 | 70 | | | | | | | | | |
| 40 | 88 | | | | | | | | | |
| 50 | 110 | | | | | | | | | |
| 63 | 140 | | | | | | | | | |

Lighter shading represents the upper limit of model. If in doubt, move up a model. This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.

Dimensions Diagram

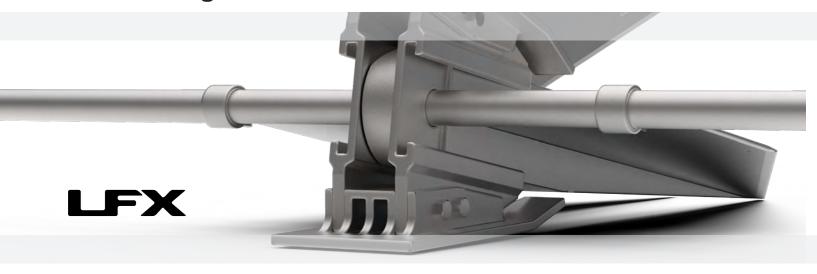




Epsilon™ Anchor Specifications

| GALVANIZED | STAINLESS | ANCHOR | WEIGHT | RECOMMENDE | D CHAIN SIZE | A | A | E | В | 0 | | 0 | | E | |
|------------|-----------|--------|--------|------------|--------------|------|--------------------|----|------|-----|--------------------------------|-----|--------------------------------|-----|--------------------|
| PART NO. | PART NO. | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 0057606 | 0057506 | 6 | 14 | 6-7 | 1/4 | 483 | 19 | 8 | 5/16 | 271 | 10 ² /3 | 258 | 10 1/6 | 337 | 13 1/4 |
| 0057610 | 0057510 | 10 | 22 | 8 | 5/16 | 573 | 22 ⁵ /9 | 10 | 3/8 | 332 | 13 | 306 | 12 | 401 | 15 4/5 |
| 0057616 | 0057516 | 16 | 35 | 8 | 5/16 | 670 | 26 ³ /8 | 12 | 1/2 | 376 | 14 4/5 | 358 | 14 | 469 | 18 1/2 |
| 0057620 | 0057520 | 20 | 44 | 10 | 3/8 | 720 | 28 1/3 | 12 | 1/2 | 406 | 16 | 387 | 15 1/4 | 505 | 19 ⁷ /8 |
| 0057625 | 0057525 | 25 | 55 | 10 | 3/8 | 778 | 30 5/8 | 16 | 5/8 | 438 | 17 1/4 | 417 | 16 ³ / ₇ | 545 | 21 1/2 |
| 0057632 | 0057532 | 32 | 70 | 10 | 3/8 | 839 | 33 | 16 | 5/8 | 474 | 18 ² / ₃ | 452 | 17 4/5 | 590 | 23 ² /9 |
| 0057640 | 0057540 | 40 | 88 | 10 | 3/8 | 907 | 35 ^{5/7} | 20 | 3/4 | 512 | 20 1/6 | 486 | 19 1/7 | 636 | 25 |
| 0057650 | 0057550 | 50 | 110 | 12 | 1/2 | 974 | 38 1/3 | 20 | 3/4 | 550 | 21 ² /3 | 519 | 20 3/7 | 680 | 26 ⁷ /9 |
| 0057663 | 0057563 | 63 | 140 | 12 | 1/2 | 1049 | 41 2/7 | 22 | 7/8 | 595 | 23 3/7 | 562 | 22 1/8 | 736 | 29 |

Dimensions may subject to change



LFX Anchor

The new LFX anchor has been developed to complement our existing range, offering style with practicality. Made from high-grade anodised aluminium, the LFX anchor demonstrates exceptional anti-corrosion performance with enhanced aesthetics. The large flukes perform superbly under high loads while being extremely lightweight, making the LFX easy to handle and use. The anchor has the additional feature of being simple to disassemble and store in a locker.

- Made from lightweight and strong, high-grade aluminium alloy
- Tough, durable and corrosion-resistant anodised finish
- Performs at its best in mud and sand environments
- Super high holding power
- Adjustable fluke angle for different conditions
- Easily detachable for locker storage (minimal tools required)
- Weight range 4lb, 7lb, 10lb, 15lb and 21lb
- ABS and Lloyds approved

| PART NO. | DESCRIPTION |
|----------|--------------------|
| 0058102 | LFX-4 1.8KG/4LBS |
| 0058103 | LFX-7 3.2KG/7LBS |
| 0058105 | LFX-10 4.5KG/10LBS |
| 0058107 | LFX-15 6.8KG/15LBS |
| 0058110 | LFX-21 9.5KG/21LBS |



Certification:

Type approved with the ABS (American Bureau of Shipping).



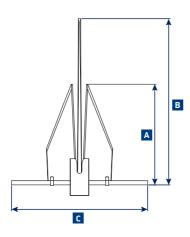
Selection guide

| ANCH | OR WEIGHT | | BOAT LENGTH OVERALL | | | | | |
|------|-----------|--------------|---------------------|---------------|---------------|---------------|--|--|
| KG | LB | 5 M 16 FT | 8 M 28 FT | 10 M 33 FT | 12 M 39 FT | 14 M 46 FT | | |
| 1.8 | 4 | | | | | | | |
| 3.2 | 7 | | | | | | | |
| 4.5 | 10 | | | | | | | |
| 6.8 | 15 | | | | | | | |
| 9.5 | 21 | | | | | | | |

Lighter shading represents the upper limit of model. If in doubt, move up a model.

This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.

Dimensions Diagram



LFX Anchor Specifications

| PART NUMBER | BAG PARTO NUMBER | ANCHOR | WEIGHT | RECOMMENDED CHAIN SIZE | | Α | | В | | С | |
|-------------|---------------------|--------|--------|---------------------------|------|-----|--------|-----|--------|-----|--------|
| | | KG | LB | ММ | IN | мм | IN | ММ | IN | мм | IN |
| 0058102 | 0058302 | 1.8 | 4 | 6 | 1/4 | 342 | 13 1/2 | 565 | 22 1/4 | 462 | 18 1/5 |
| 0058103 | 0058303 | 3.2 | 7 | 6 то 7 | 1/4 | 407 | 16 | 672 | 26 4/9 | 550 | 21 2/3 |
| 0058105 | 0058305 | 4.5 | 10 | 8 | 5/16 | 452 | 17 4/5 | 746 | 29 3/8 | 610 | 24 |
| 0058107 | 0058307 | 6.8 | 15 | 10 | 3/8 | 517 | 20 1/3 | 853 | 33 4/7 | 699 | 27 1/2 |
| 0058110 | 0058310 | 9.5 | 21 | 10 | 3/8 | 579 | 22 4/5 | 954 | 37 4/7 | 781 | 30 3/4 |

Dimensions subject to +/- 5% tolerance



Delta® Anchor

The market-leading Delta[®] anchor is constructed of high-grade manganese steel or Duplex stainless steel for maximum strength. Its unique shank profile and ballasted tip make it self-launching, and its low centre of gravity and self-righting geometry ensure that it will set immediately. Consistent and reliable in performance, the Delta® anchor is guaranteed for life against breakage¹ along with Lloyd's Register high holding power accreditation².

- Proven performance
- Lead ballasted tip for fast setting
- High Holding Power
- Suited to a wide range of sea beds
- Available in Galvanized and Stainless steel
- Full range from 4kg-63kg



²Lloyd's Test Certificate is available for individual Delta® anchors by arrangement.

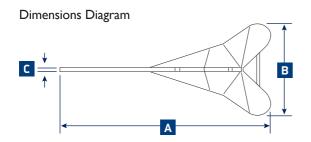


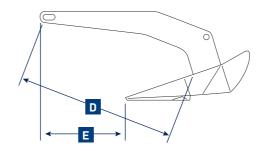
Selection guide

| ANCHOR | R WEIGHT | | BOAT LENGTH OVERALL | | | | | | | |
|--------|----------|--------------|---------------------|-------|-----------------|-------|-------|-----------------|-----------------|--|
| KG | LB | 6 M 20 FT | 9.2 M 30 FT | | 15.2 M 50 FT | | | 24.4 M 80 FT | 27.4 M 90 FT | |
| 4 | 9 | 20 F1 | 30 F1 | 40 11 | 20 11 | 00 F1 | 70 F1 | 00 F1 | 90 F1 | |
| 6 | 14 | | | | | | | | | |
| 10 | 22 | | | | | | | | | |
| 16 | 35 | | | | | | | | | |
| 20 | 44 | | | | | | | | | |
| 25 | 55 | | | | | | | | | |
| 32 | 70 | | | | | | | | | |
| 40 | 88 | | | | | | | | | |
| 50 | 110 | | | | | | | | | |
| 63 | 140 | | | | | | | | | |

Lighter shading represents the upper limit of model. If in doubt, move up a model.

This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.





Delta® Anchor Stainless and Galvanised Specifications

| GALVANIZED | STAINLESS | ANCHOR | WEIGHT | RECOMMENDE | ED CHAIN SIZE | A | A | E | 3 | 0 | | | | E | 3 |
|------------|-----------|--------|--------|------------|------------------|------|--------|-----|--------|----|------|-----|--------|-----|--------|
| PART NO. | PART NO. | KG | LB | мм | IN | ММ | IN | ММ | IN | мм | IN | ММ | IN | ММ | IN |
| 0057404 | - | 4 | 9 | 6-7 | 1/4 | 514 | 20 1/4 | 228 | 9 | 8 | 5/16 | 387 | 15 1/4 | 210 | 8 1/4 |
| 0057406 | 0057306 | 6 | 14 | 6-7 | 1/4 | 595 | 23 3/8 | 263 | 10 3/8 | 10 | 3/8 | 450 | 17 5/8 | 241 | 9 1/2 |
| 0057410 | 0057310 | 10 | 22 | 8 | ⁵ /16 | 695 | 27 3/8 | 308 | 12 1/8 | 12 | 1/2 | 526 | 20 5/8 | 283 | 11 1/8 |
| 0057416 | 0057316 | 16 | 35 | 8 | ⁵ /16 | 812 | 32 | 360 | 14 1/8 | 12 | 1/2 | 614 | 24 1/8 | 334 | 13 |
| 0057420 | 0057320 | 20 | 44 | 10 | 3/8 | 877 | 34 1/2 | 389 | 15 1/4 | 16 | 5/8 | 663 | 26 1/8 | 361 | 14 1/4 |
| 0057425 | 0057325 | 25 | 55 | 10 | 3/8 | 945 | 37 1/4 | 417 | 16 3/8 | 16 | 5/8 | 713 | 28 | 384 | 15 1/8 |
| 0057432 | 0057332 | 32 | 70 | 10 | 3/8 | 1026 | 40 3/8 | 455 | 17 7/8 | 16 | 5/8 | 774 | 30 1/2 | 417 | 16 3/8 |
| 0057440 | 0057340 | 40 | 88 | 10 | 3/8 | 1099 | 43 1/4 | 489 | 19 1/4 | 20 | 3/4 | 835 | 32 7/8 | 446 | 17 1/2 |
| 0057450 | 0057350 | 50 | 110 | 12 | 1/2 | 1175 | 46 1/4 | 520 | 20 1/2 | 20 | 3/4 | 890 | 35 | 479 | 18 7/8 |
| 0057463 | 0057363 | 63 | 140 | 12 | 1/2 | 1278 | 50 1/4 | 568 | 22 3/8 | 22 | 7/8 | 973 | 38 1/4 | 518 | 20 3/8 |

Dimensions subject to +/- 2% tolerance



DTX Anchor

The DTX anchor fills the gap between the existing galvanised and stainless Delta[®] anchors, allowing boat owners and builders to specify a more cost-effective stainless steel anchor.

Made from 316 stainless steel, the DTX anchors feature exceptional anti-corrosion performance and enhanced aesthetics. Utilising lead ballast encapsulated within the tip of the anchor to achieve the perfect centre of gravity, the DTX offers the initial bite and holding reliability that users of our Delta® anchors have come to expect.

- 316 stainless steel
- Proven performance
- Lead-ballasted tip for fast setting
- 3 year warranty
- Ordinary Holding Power
- Full range from 6kg-63kg





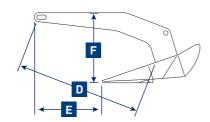
Selection guide

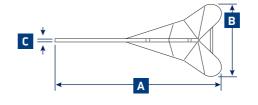
| ANCHOR | R WEIGHT | | | | BOAT LENG | TH OVERALL | | | |
|--------|----------|-------|-------|-------|-----------|------------|-------|-------|--------|
| | | 6 м | | | 15.2 M | | | | 27.4 M |
| KG | LB | 20 FT | 30 FT | 40 FT | 50 FT | 60 FT | 70 FT | 80 FT | 90 FT |
| 6 | 14 | | | | | | | | |
| 10 | 22 | | | | | | | | |
| 16 | 35 | | | | | | | | |
| 20 | 44 | | | | | | | | |
| 25 | 55 | | | | | | | | |
| 32 | 70 | | | | | | | | |
| 40 | 88 | | | | | | | | |
| 50 | 110 | | | | | | | | |
| 63 | 140 | | | | | | | | |

Lighter shading represents the upper limit of model. If in doubt, move up a model.

This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.

Dimensions Diagram





DTX Anchor Specifications

| PART NUMBER | ANCHOR WEIGHT RECOMMENDED CHAIN SIZE | | | A | | В | | С | | D | | E | | | F | |
|-------------|--------------------------------------|-----|-----|------|------|---------|-------|---------|----|-----|-----|--------|-----|--------|-----|--------|
| | KG | LB | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | мм | IN |
| 0057206 | 6 | 14 | 6-7 | 1/4 | 593 | 23 3/8 | 265 | 10 7/16 | 10 | 3/8 | 450 | 17 5/8 | 243 | 9 1/2 | 254 | 10 |
| 0057210 | 10 | 22 | 8 | 5/16 | 695 | 27 3/8 | 310 | 12 7/32 | 13 | 1/2 | 526 | 20 5/8 | 282 | 11 1/8 | 292 | 11 1/2 |
| 0057216 | 16 | 35 | 8 | 5/16 | 812 | 32 | 362 | 14 1/4 | 13 | 1/2 | 614 | 24 1/8 | 328 | 13 | 339 | 13 3/8 |
| 0057220 | 20 | 44 | 10 | 3/8 | 877 | 34 1/2 | 392 | 15 7/16 | 16 | 5/8 | 663 | 26 1/8 | 357 | 14 | 368 | 14 1/2 |
| 0057225 | 25 | 55 | 10 | 3/8 | 945 | 37 1/4 | 415 | 16 3/8 | 16 | 5/8 | 713 | 28 | 387 | 15 1/4 | 398 | 15 5/8 |
| 0057232 | 32 | 70 | 10 | 3/8 | 1023 | 40 1/4 | 453.5 | 17 7/8 | 20 | 3/4 | 775 | 30 1/2 | 425 | 16 3/4 | 432 | 17 |
| 0057240 | 40 | 88 | 10 | 3/8 | 1103 | 43 7/16 | 489 | 19 1/4 | 20 | 3/4 | 883 | 32 3/4 | 437 | 17 1/4 | 461 | 18 1/8 |
| 0057250 | 50 | 110 | 12 | 1/2 | 1175 | 46 1/4 | 523 | 20 5/8 | 20 | 3/4 | 890 | 35 | 479 | 18 7/8 | 486 | 19 1/8 |
| 0057263 | 63 | 140 | 12 | 1/2 | 1270 | 50 | 567 | 22 5/16 | 25 | 1 | 963 | 38 | 508 | 20 | 537 | 21 1/8 |

Dimensions subject to +/- 2% tolerance

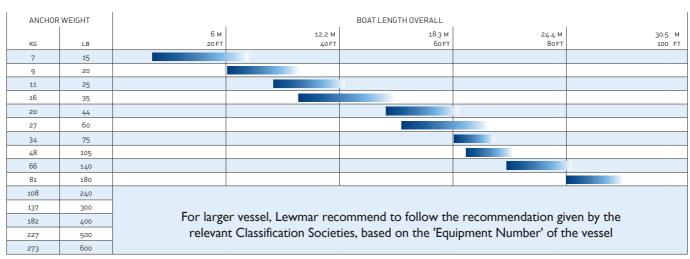


CQR® Anchor

The $CQR^{\$}$ anchor has gained legendary status for its superior performance. The construction of the $CQR^{\$}$ anchor increases its strength and reliability under load – a genuine $CQR^{\$}$ anchor will not break. Its hinged shank delivers consistent setting and holding even in the very worst conditions. The $CQR^{\$}$ anchor is guaranteed for life against breakage and has Lloyd's Register General Approval of an Anchor Design as a High Holding Power anchor.



Selection guide

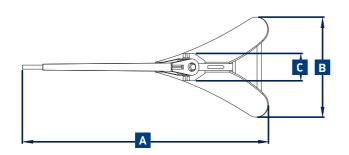


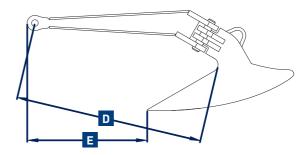
Lighter shading represents the upper limit of model. If in doubt, move up a model.

This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.



Dimensions Diagram





CQR® Anchor Stainless and Galvanised Specifications

| GALVANIZED | STAINLESS | ANCHOR | WEIGHT | | RECOMMENDED CHAIN SIZE | | 4 | E | 3 | | | | | E | 3 |
|------------|-----------|--------|--------|------|---------------------------|------|--------|-----|--------|-----|-------|------|--------|-----|--------|
| PART NO. | PART NO. | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 0056503W | - | 7 | 15 | 6 | 1/4 | 626 | 24 5/8 | 253 | 10 | 82 | 3 1/4 | 439 | 17 1/4 | 287 | 11 1/4 |
| 0056504W | - | 9 | 20 | 8 | 5/16 | 690 | 27 1/8 | 279 | 11 | 86 | 3 3/8 | 484 | 19 | 313 | 12 3/8 |
| 0056505W | - | 11 | 25 | 8 | 5/16 | 740 | 29 1/8 | 299 | 116/8 | 90 | 3 1/2 | 522 | 20 1/2 | 336 | 13 1/4 |
| 0056506W | - | 16 | 35 | 8 | 5/16 | 827 | 32 1/2 | 335 | 13 2/8 | 94 | 3 3/4 | 584 | 23 | 373 | 14 5/8 |
| 0056507W | - | 20 | 44 | 10 | 3/8 | 901 | 11 7/8 | 366 | 14 3/8 | 100 | 3 7/8 | 635 | 25 | 405 | 16 |
| 0056508W | 0056205 | 27 | 60 | 10 | 3/8 | 989 | 38 7/8 | 402 | 15 7/8 | 106 | 4 1/8 | 700 | 27 1/2 | 445 | 17 1/2 |
| 0056509W | 0056206 | 34 | 75 | 11 | 7/16 | 1071 | 42 1/8 | 435 | 17 1/8 | 112 | 4 3/8 | 754 | 29 5/8 | 481 | 18 7/8 |
| 0056510W | 0056207 | 48 | 105 | 11 | 7/16 | 1196 | 47 | 485 | 19 | 120 | 4 3/4 | 843 | 33 1/8 | 530 | 20 7/8 |
| 0056511W | 0056208 | 63 | 140 | 12.5 | 1/2 | 1337 | 52 5/8 | 537 | 21 1/8 | 128 | 5 | 933 | 36 3/4 | 583 | 23 |
| 0056513W | 0056209 | 81 | 180 | 12.5 | 1/2 | 1450 | 57 | 582 | 23 | 138 | 5 1/2 | 1010 | 39 3/4 | 634 | 25 |
| 0056515W | 0056210 | 108 | 240 | 14 | 9/16 | 1560 | 61 1/2 | 641 | 25 1/4 | 146 | 5 3/4 | 1105 | 43 1/2 | 694 | 27 3/8 |
| 0056530W | 0056211 | 137 | 300 | 14 | 9/16 | 1682 | 66 1/4 | 693 | 27 1/4 | 154 | 6 | 1194 | 47 | 746 | 29 3/8 |
| 0056540W | - | 182 | 400 | 16 | 5/8 | 1865 | 73 1/2 | 763 | 30 | 164 | 6 1/2 | 1319 | 52 | 828 | 32 1/2 |
| 0056550W | - | 227 | 500 | 17.5 | 11/16 | 2109 | 83 | 825 | 32 1/2 | 174 | 6 7/8 | 1430 | 56 1/4 | 875 | 34 1/2 |
| 0056560W | - | 273 | 600 | 17.5 | 11/16 | 2138 | 84 1/8 | 870 | 34 1/4 | 184 | 7 1/4 | 1511 | 59 1/2 | 949 | 37 3/8 |

Dimensions subject to +/- 2% tolerance

 $[\]ensuremath{^{\text{I}}\text{Damage}}$ by deformation or bending is not covered by this guarantee

²Lloyd's Test Certificate available of individual CQR anchors by arrangement – please speak to your Lewmar representative



Claw Anchor

Design based on anchors used to secure oil rigs in the North Sea. The Claw anchor is constructed of high-grade steel cast in a single piece. It sets effortlessly, holds in a variety of seabeds and stows easily on the bow roller of most boats. Also ideal for twin-stacked installations.



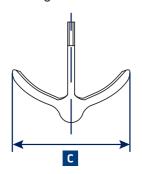
Selection guide

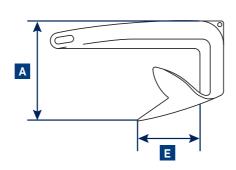
| ANCHO | R WEIGHT | | | | BOAT LENGT | TH OVERALL | | | |
|-------|----------|-------|-------|--------|------------|------------|--------|--------|--------|
| | | 6 м | 9.2 M | 12.2 M | 15.2 M | 18.3 M | 21.3 M | 24.4 M | 27.4 M |
| KG | LB | 20 FT | 30 FT | 40 FT | 50 FT | 60 FT | 70 FT | 80 FT | 90 FT |
| 1 | 2.2 | | | | | | | | |
| 2 | 4.4 | | | | | | | | |
| 5 | 11 | | | | | | | | |
| 7.5 | 16.5 | | | | | | | | |
| 10 | 22 | | | | | | | | |
| 15 | 33 | | | | | | | | |
| 20 | 44 | | | | | | | | |
| 30 | 66 | | | | | | | | |
| 50 | 110 | | | | | | | | |
| 80 | 176 | | | | | | | | |

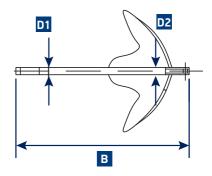
LIGHTER SHADING REPRESENTS THE UPPER LIMIT OF MODEL. IF IN DOUBT, MOVE UP A MODEL.
THIS INFORMATION IS FOR GUIDANCE DAILY PLASE CONCILL THE PELEVANT OF ASSISTATION SOCIETY FOR SPECIFIC CERTIFICATION PROTUBEMENTS



Dimensions Diagram





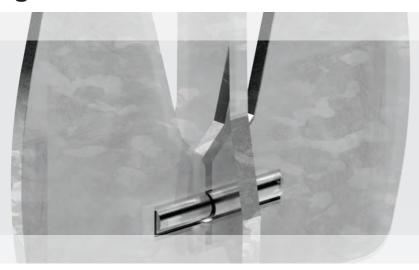


Claw Anchor Galvanised Specifications

| GALVANIZED | | ANCHOR WEIGHT | | RECOMMENDED CHAIN SIZE | | Α | | В | | С | | D1 | | Ē |
|------------|-----|------------------|----|---------------------------|---------|---------------------------------|----------|----------------------------------|---------|----------|---------|-------|---------|---------------------------------|
| PART NO. | KG | LB | ММ | IN | ММ | IN | мм | IN | мм | IN | мм | IN | мм | IN |
| 0057901 | 1 | 2.2 | 5 | 3/16 | 133 ±8 | 5 1/4 | 295 ±4 | 11 5/8 | 182 ±8 | 7 3/16 | 7.5 ±2 | 5/16 | 95 ±6 | 3 3/4 |
| 0057902 | 2 | 4.4 | 5 | 3/16 | 182 ±8 | 7 3/16 | 361 ±4 | 14 3/16 | 240 ±8 | 9 7/16 | 9 ±2 | 3/8 | 123 ±6 | 4 13/16 |
| 0057905 | 5 | 11 | 5 | 3/16 | 227 ±10 | 8 ¹⁵ / ₁₆ | 468 ±5 | 18 7/16 | 295 ±8 | 11 5/8 | 12 ±3 | 1/2 | 150 ±6 | 5 7/8 |
| 0057907 | 7.5 | 16.5 | 6 | 1/4 | 263 ±10 | 10 3/8 | 499 ±5 | 19 5/8 | 324 ±10 | 12 3/4 | 15 ±3 | 9/16 | 151 ±8 | 5 ¹⁵ / ₁₆ |
| 0057910 | 10 | 22 | 8 | 5/16 | 282 ±10 | 11 1/8 | 540 ±6 | 21 1/4 | 360 ±10 | 14 3/16 | 15 ±4 | 9/16 | 182 ±8 | 7 3/16 |
| 0057915 | 15 | 33 | 8 | 5/16 | 342 ±12 | 13 7/16 | 630 ±6 | 24 13/16 | 435 ±10 | 17 1/8 | 16.5 ±4 | 10/16 | 206 ±12 | 8 1/8 |
| 0057920 | 20 | 44 | 10 | 3/8 | 343 ±12 | 13 1/2 | 703 ±8 | 27 11/16 | 452 ±12 | 17 13/16 | 25 ±5 | 1 | 238 ±12 | 9 3/8 |
| 0057930 | 30 | 66 | 10 | 3/8 | 397 ±12 | 15 5/8 | 812 ±8 | 31 ¹⁵ / ₁₆ | 515 ±12 | 20 1/4 | 24 ±5 | 5/16 | 283 ±12 | 11 1/8 |
| 0057950 | 50 | 110 | 12 | 1/2 | 465 ±12 | 18 5/16 | 943 ±10 | 37 1/8 | 625 ±12 | 24 5/8 | 25.5 ±5 | 1 | 313 ±12 | 12 5/16 |
| 0057980 | 80 | 176 | 12 | 1/2 | 528 ±12 | 20 13/16 | 1074 ±10 | 42 5/16 | 699 ±12 | 27 1/2 | 26 ±5 | 1 | 365 ±12 | 14 3/8 |

Claw Anchor Stainless Specifications

| STAINLESS STEEL | ANC WEI | HOR GHT | RECOMN CHAIN | | 1 | A | E | 3 | 0 | | D | 1 | D | 2 | E | 3 |
|--------------------|------------|------------|-----------------|------------------------------|---------|----------------------|--------|----------------------------------|---------|---------------------------------|---------|-------------------------------|---------|-------------------------------|---------|---------------------------------|
| PART NO. | KG | LB | ММ | IN | ММ | IN | ММ | IN | мм | IN | мм | IN | мм | IN | ММ | IN |
| 0058901 | 1 | 2.2 | 5 | ³ / ₁₆ | 135 ±8 | 5 5/16 | 292 ±4 | 11 1/2 | 195 ±8 | 7 ¹¹ / ₁₆ | 8+ | ⁵ / ₁₆ | 10 ±2 | 1/2 | 106 ±6 | 4 ³ / ₁₆ |
| 0058902 | 2 | 4.4 | 5 | ³ / ₁₆ | 177 ±8 | 6 ¹⁵ /16 | 358 ±4 | 14 | 240 ±8 | 9 ⁷ / ₁₆ | 7 ±2 | 1/4 | 9.5 ±2 | 3/8 | 127 ±6 | 5 |
| 0058905 | 5 | 11 | 5 | ³ / ₁₆ | 230 ±10 | 9 ¹ /16 | 453 ±5 | 17 7/8 | 305 ±8 | 12 | 9 ±3 | 1/4 | 14.5 ±3 | 5/8 | 146 ±6 | 5 ³ / ₄ |
| 0058907 | 7.5 | 16.5 | 6 | 1/4 | 267 ±10 | 10 ¹ /2 | 481 ±5 | 18 ¹⁵ / ₁₆ | 345 ±10 | 13 9/16 | 12.5 ±3 | 1/2 | 18 ±3 | 11/16 | 138 ±8 | 5 ⁷ /16 |
| 0058910 | 10 | 22 | 8 | ⁵ / ₁₆ | 288 ±10 | 11 5/16 | 540 ±6 | 21 1/4 | 377 ±10 | 14 13/16 | 13 ±4 | 1/2 | 19 ±4 | 3/4 | 165 ±8 | 6 1/2 |
| 0058915 | 15 | 33 | 8 | ⁵ / ₁₆ | 332 ±12 | 13 ¹ /16 | 625 ±6 | 24 5/8 | 448 ±10 | 17 3/4 | 15 ±4 | 9/16 | 22 ±4 | ¹⁴ / ₁₆ | 203 ±12 | 8 |
| 0058920 | 20 | 44 | 10 | 3/8 | 357 ±12 | 14 ¹ /16 | 661 ±8 | 26 | 465 ±12 | 18 ⁵ /16 | 17 ±5 | 3/4 | 25 ±5 | 1 | 220 ±12 | 8 ¹¹ / ₁₆ |
| 0058930 | 30 | 66 | 10 | 3/8 | 405 ±12 | 15 ¹⁵ /16 | 782 ±8 | 30 ³ /16 | 540 ±12 | 21 1/4 | 18 ±5 | ¹¹ / ₁₆ | 26 ±5 | 1 | 265 ±12 | 10 7/16 |
| 0058950 | 50 | 110 | 12 | 1/2 | 454 | 17 7/8 | 950 | 37 2/5 | 607 | 23 7/8 | 25 | 1 | 45 | 1 3/4 | 325 | 12 13/16 |
| 0058980 | 80 | 176 | 12 | 1/2 | 545 | 21 7/16 | 1080 | 42 1/2 | 740 | 29 1/8 | 25 | 1 | 45 | 1 3/4 | 356 | 14 |



LFF Anchor

For smaller yachts, the LFF anchor is ideally used as a secondary anchor as it provides great holding power, easy stowage and can be used in a number of mooring applications.

The Lewmar LFF anchor is a simple design which folds flat. It is mainly used as a secondary or stern anchor, manufactured from galvanised materials. Sizes ranging from 6-25kg.

- Folds flat for easy stowage
- Proven performance
- Mainly used as a secondary anchor
- Ordinary Holding Power
- Full range from 6kg 25kg







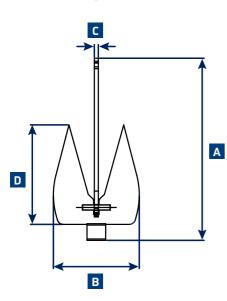
Selection guide

| ANCH | HOR WEIGHT | BOAT LENGTH OVERALL | | | | | | | | | | | |
|------|------------|---------------------|-------|--------|--------|--------|--|--|--|--|--|--|--|
| | | 6м | 9.2 M | 12.2 M | 15.2 M | 18.3 M | | | | | | | |
| KG | LB | 20 FT | 30 FT | 40 FT | 50 FT | 60 FT | | | | | | | |
| 6 | 2.2 | | | | | | | | | | | | |
| 8 | 4.4 | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | |
| 12 | 16.5 | | | | | | | | | | | | |
| 14 | 22 | | | | | | | | | | | | |
| 16 | 33 | | | | | | | | | | | | |
| 20 | 44 | | | | | | | | | | | | |
| 25 | 66 | | | | | | | | | | | | |

Lighter shading represents the upper limit of model. If in doubt, move up a model.

This information is for guidance only, please consult the relevant Classification Society for specific certification requirements.

Dimensions Diagram



LFF Anchor Specifications

| PART NUMBER | ANCHOR | WEIGHT | / | Ą | E | В | (| | D | | |
|-------------|--------|--------|-----|----------|-----|----------|----|-------|-----|----|--|
| | KG | LB | мм | MM IN | | IN | мм | IN | мм | IN | |
| 0057806 | 6 | 13.2 | 548 | 21 9/16 | 271 | 10 11/16 | 14 | 9/16 | 310 | | |
| 0057808 | 8 | 17.6 | 645 | 25 3/8 | 312 | 12 5/16 | 14 | 9/16 | 360 | | |
| 0057810 | 10 | 22 | 732 | 28 13/16 | 348 | 13 11/16 | 16 | 5/8 | 400 | | |
| 0057812 | 12 | 26.4 | 785 | 30 7/8 | 348 | 13 11/16 | 18 | 11/16 | 395 | | |
| 0057814 | 14 | 30.8 | 788 | 31 | 369 | 14 1/2 | 18 | 11/16 | 425 | | |
| 0057816 | 16 | 35.2 | 840 | 33 1/16 | 369 | 14 1/2 | 20 | 13/16 | 420 | | |
| 0057820 | 20 | 44 | 910 | 35 13/16 | 414 | 16 5/16 | 22 | 7/8 | 460 | | |
| 0057825 | 25 | 55.1 | 972 | 38 1/4 | 451 | 17 3/4 | 22 | 7/8 | 495 | | |

Dimensions subject to +/- 2% tolerance





Kedge Anchor

Our Lewmar Kedge anchors are available in a variety of sizes and can be used in a number of ways. For larger yachts, the Kedge anchor is used on bow pocket installations primarily seen on superyachts. When bow anchoring the two anchors can be deployed in a Y pattern to form dual holding performance. They can also be stowed away in the bow anchor pocket, flush against the hull.

- Available in sizes 105kg 280kg
- Proven performance
- Galvanised or stainless steel available
- Good Holding Power
- Can be used in a variety of sea beds
- Able to stow away in the bow neatly





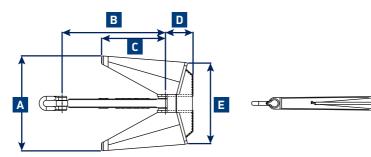


Selection guide

| | ANCHOR | WEIGHT |
|----|----------|--------|
| К | G | LB |
| 10 | 5 | 232 |
| 12 | :5 | 276 |
| 15 | 0 | 331 |
| 16 | io | 353 |
| 18 | ю | 397 |
| 21 | .0 | 463 |
| 23 | O | 507 |
| 28 | ю | 617 |

Lewmar recommend to follow the relevant Classification Societies' specifications, based on the Equipment Number of the vessel

Dimensions Diagram



Kedge Anchor Stainless and Galvanised Specifications

| GALVANIZED | STAINLESS | ANCHOR | WEIGHT | RECOMMENDE | ED CHAIN SIZE | | Ą | I | 3 | | | | 0 | I | | I | F |
|------------|-----------|--------|--------|------------|---------------|-----|----------|-----|----------|-----|----------|-----|---------|-----|---------|-----|---------|
| PART NO. | PART NO. | KG | LB | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | мм | IN |
| 69000544 | 69000545 | 105 | 232 | 14 | 9/16 | 655 | 25 13/16 | 712 | 28 1/16 | 440 | 17 5/16 | 190 | 7 1/2 | 555 | 21 7/8 | 320 | 12 5/8 |
| 69000560 | 69000561 | 125 | 276 | 14 | 9/16 | 705 | 27 3/4 | 766 | 30 3/16 | 472 | 18 9/16 | 204 | 8 1/16 | 598 | 23 9/16 | 345 | 13 9/16 |
| 69000546 | 69000547 | 150 | 331 | 16 | 5/8 | 760 | 29 15/16 | 830 | 32 11/16 | 510 | 20 1/16 | 220 | 8 11/16 | 645 | 25 3/8 | 365 | 14 3/8 |
| 69000548 | 69000549 | 160 | 353 | 16 | 5/8 | 765 | 30 1/8 | 835 | 32 7/8 | 516 | 20 5/16 | 223 | 8 3/4 | 650 | 25 9/16 | 370 | 149/16 |
| 69000550 | 69000551 | 180 | 397 | 16 | 5/8 | 795 | 31 5/16 | 860 | 33 7/8 | 536 | 21 1/8 | 230 | 9 1/16 | 675 | 26 9/16 | 385 | 15 3/16 |
| 69000585 | 69000586 | 210 | 463 | 17.5 | 11/16 | 838 | 33 | 899 | 35 3/8 | 554 | 21 13/16 | 238 | 9 3/8 | 711 | 28 | 406 | 16 |
| 69000552 | 69000553 | 230 | 507 | 17.5 | 11/16 | 856 | 33 11/16 | 923 | 36 5/16 | 569 | 22 3/8 | 246 | 9 11/16 | 724 | 28 1/2 | 415 | 16 5/16 |

Dimensions subject to +/- 2% tolerance



Devil's Claw Chain Stoppers

The Devil's Claw Chain Stopper units are designed to be used with Lewmar V8 to V12 windlass range.

- Paddles hold the load of the anchor and chain when at anchor, taking the load off the windlass
- Devil's Claw is used for tensioning the anchor chain when the anchor is stowed, preventing it from moving when under way.
- Required by classification societies at 80%, Lewmar exceed the breaking load of these units which is calculated at 125% of the breaking load of the chain.
- Stopper paddles made from high tensile 17-4PH Stainless Steel, and the main bodies are made from 316 Stainless Steel, combined with an integral high tensile 17-4PH Stainless Steel stopper block.
- Available in horizontal & vertical configurations and a wide range of chain size from 12.5 to 22mm.
- Vertical units have the Devil's Claw operating vertically, while horizontal units have the Devil's Claw operating horizontally.
- The height of chain operation is designated by windlass size. For example, it is possible to use a V8 size unit with a V9 windlass if the Devil's Claw is mounted on a plinth to raise it to the correct height.
- Custom options available. Contact custom@lewmar.com for more information.













| PART NO. | DESCRIPTION |
|-----------|------------------------------------|
| TAILTING. | |
| 69000499 | 12.5MM STUDLINK VERTICAL DCRS (V8) |
| 69000412 | 14MM SHORTLINK VERTICAL DCRS (V8) |
| 69000507 | 14MM STUDLINK VERTICAL DCRS (V8) |
| 69000508 | 14MM STUDLINK VERTICAL DCRS (V9) |
| 69000500 | 16MM STUDLINK VERTICAL DCRS (V8) |

Anchor Safety Straps

- Lewmar recommends securing the anchor to the boat when not in use
- Prevents the anchor from deploying unintentionally
- Simply clipped on the chain, shackle, or anchor
- The windlass is not designed to hold the anchor to the boat when not in use

| PART NUMBER | DESCRIPTION | SAFE WOR | KING LOAD |
|------------------|------------------------------|----------|-----------|
| (NON PVC COATED) | | KG | LB |
| 66840027 | ANCHOR SAFETY STRAP 3MM WIRE | 70 | 154 |
| 66840028 | ANCHOR SAFETY STRAP 4MM WIRE | 140 | 309 |
| | ' | | |



SS180007 (Available in the USA only)

> 3mm diameter wire. PVC coated

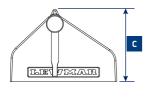


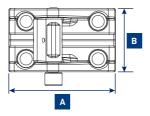
Standard Chain Stoppers

- A stylish range of cast stainless chain stoppers
- Made from 316 stainless steel
- Windlasses are not designed to hold high loads while a boat is at anchor
- When the windlass is not in use and the boat is at anchor, the chain should be secured using a chain stopper, or the rope rode should be attached to a load-bearing point such as a cleat
- Perfect for sleep-filled nights and lazy lunches



Dimensions Diagram





Chain Stoppers with Claw



Chain Stopper Specifications

| PART NUMBER | CHAIN | N SIZE | 1 | A | E | 3 | С | | | |
|-----------------------|-------|------------------------------|-----|--------------------------------|-----|---------------------------------|-----|---------------------------------|--|--|
| | мм | IN | ММ | IN | ММ | IN | ММ | IN | | |
| 66840077 | 8 | ⁵ / ₁₆ | 110 | 4 5/16 | 65 | 2 1/2 | 79 | 3 1/8 | | |
| 66840079 | 10 | 3/8 | 110 | 4 5/16 | 65 | 2 1/2 | 79 | 3 1/8 | | |
| 66840080 | 12-13 | 1/2 | 148 | 5 7/8 | 88 | 3 1/2 | 101 | 4 | | |
| 66840081 | 13-14 | 9/16 | 160 | 6 ⁵ / ₁₆ | 100 | 3 ¹⁵ / ₁₆ | 106 | 4 3/16 | | |
| 66840083 | 16 | 5/8 | 184 | 7 1/4 | 116 | 4 ⁹ /16 | 122 | 4 ¹³ / ₁₆ | | |
| 66840069 ¹ | 6-10 | 1/4-3/8 | 79 | 3 1/8 | 60 | 2 3/8 | 57 | 2 1/4 | | |

| ¹ STAINLESS STEEL DELUXE ANCHOR SAFETY DEVICE (USA ONLY) |
|---|
|---|

| PART NUMBER | CHAIN | N SIZE | A | A | E | 3 | С | | |
|----------------|-------|--------|-----|-----|----|-----|-----|------|--|
| | ММ | IN | мм | IN | ММ | IN | мм | IN | |
| 69000608 | 8 | 5/16 | 110 | 4-3 | 65 | 2.5 | 95 | 3.75 | |
| 69000609 | 10 | 3/8 | 110 | 4-3 | 65 | 2.5 | 95 | 3.75 | |
| 69000610 | 12 | 1/2 | 148 | 5-8 | 88 | 3-5 | 124 | 4.8 | |

Swivels

- Heavy-duty anchor rode swivel
- Attach between line and chain or between chain and anchor
- Material: 316 Stainless Steel
- Stainless steel screw pins



| PART NUMBER | DESCRIPTION |
|-------------|---|
| 66840329 | ANCHOR SWIVEL (8MM CHAIN) |
| 66840078 | ANCHOR SWIVEL (10MM CHAIN) |
| 66840082 | ANCHOR SWIVEL (12MM CHAIN) |
| 65003097 | ANCHOR SWIVEL (14MM CHAIN) |
| 66840111 | ANCHOR SWIVEL (16MM CHAIN) |
| SWIVEL6* | ANCHOR SWIVEL (6MM CHAIN) |
| SWIVEL312F* | ANCHOR SWIVEL (FIXED 1/4"® 5/16" CHAIN) |
| SWIVEL500F* | ANCHOR SWIVEL (FIXED 3/8",1/2,7/16"CHAIN) |

*USA ONLY

Anchor Accessories

Anchor Rodes

- Designed to complement the rope-chain gypsies fitted to all Lewmar windlasses
- Calibrated for even pitch
- Hot dip galvanised to minimise corrosion
- Welded for high strength
- Smooth rope-to-chain transition
- Helps your windlass operate smoothly
- Hand-sewn whipping guarantees against unravelling



Premium 3 Strand Rodes (USA only)

| 69000331 5 ¹ /4 G4 X 100 ¹ /2 WITH ⁵ /16 SHACKLE 69000332 10 ¹ /4 G4 X 150 ¹ /2 WITH ⁵ /16 SHACKLE |
|---|
| 69000332 10 ¹ / ₄ G ₄ X 150 ¹ / ₂ WITH ⁵ / ₁ 6 SHACKLE |
| -333 /4-4/3- /- / / |
| 69000334 15 ¹ /4 G4 X 200 ¹ /2 WITH ⁵ /16 SHACKLE |
| 69000335 15 ¹ /4 64 X 300 ¹ /2 WITH ⁵ /16 SHACKLE |
| 69000339 20 ⁵ /16 G4 X 200 ⁹ /16 WITH ³ /8 SHACKLE |

Premium 8 Plait Rodes (USA only)

| PART NUMBER | DESCRIPTION | |
|-------------|-------------|---|
| HM10HT200PX | | 10 ¹ / ₄ G ₄ – 200 ¹ / ₂ 8PLT WITH SHACKLE |
| HM15HT300PX | | 15 1 /4 G4 $^{-}$ 300 1 /2 8PLT WITH SHACKLE |
| HM15H300PX | | 15 ⁵ /16 G4 – 300 ⁵ /8 8PLT WITH SHACKLE |
| | | |

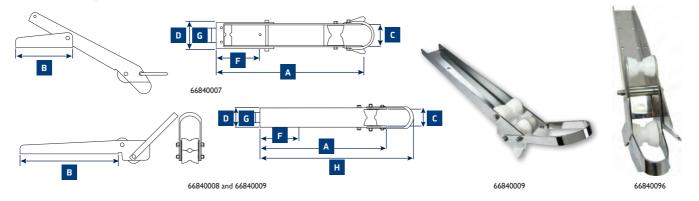
Bow Rollers

- Friction-free surface to make dropping and retrieving anchor easier
- Will not damage the deck or topsides
- Allows you to safely stow anchor while cruising and deploy at short notice
- Constructed of 304 stainless steel

Range of rollers to fit the most common combinations of anchor, mounting style and boat



Dimension Diagram



Bow Rollers Specification

| PART NUMBER | WEI | EIGHT ANCHOR TYPE | | EIGHT ANCHOR TYPE | | | A | | В | (| | | | | F | (| 3 | | Н |
|----------------|-----|-------------------|---|-------------------|--------|-----|----------|-----|--------|-----|-------|-----|---------|----|---------|-----|----------|--|---|
| PART NO. | KG | LB | | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | | |
| 66840007 | 3.6 | 8 | ANY FLUKE STYLE TO 35LB/16KG | 524 | 20 | 103 | 8 | 76 | 3 | 99 | 3 7/8 | 153 | 6 | 51 | 2 | - | - | | |
| 66840008 | 4 | 9 | 14, 22 $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | 495 | 19 1/2 | 376 | 14 13/16 | 67 | 2 5/8 | 80 | 31/8 | 153 | 6 | 38 | 1 1/2 | 602 | 23 11/16 | | |
| 66840009 | 4.5 | 10 | 14, 22 $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | 597 | 231/2 | 478 | 18 13/16 | 67 | 25/8 | 80 | 31/8 | 153 | 6 | 38 | 11/2 | 704 | 27 11/16 | | |
| 66840060 | 0.5 | 1 | SMALL BOW ROLLER | - | - | 102 | 4 | 51 | 2 | - | - | - | - | - | - | 159 | 6 1/4 | | |
| 66840085 | 5 | 11 | 22, 35 $\%$ 45LB (10, 16 $\%$ 20KG) DELTA $^{\! \otimes}$ AND DTX ANCHORS | - | - | 400 | 15 3/4 | 77 | 3 | 80 | 3 1/7 | 242 | 9 1/2 | 46 | 1 13/16 | 577 | 22 11/16 | | |
| 66840096 | 8.2 | 18 | 35-55DTX/DELTA PIVOTING R1 | | | 510 | 20 1/16 | 113 | 4 7/16 | 123 | 4 7/8 | 466 | 18 5/16 | 47 | 16/7 | 730 | 28 3/4 | | |



3. Thrusters

The Lewmar Thruster Range



Page 104 TT Electric Thruster

- Available from 1.5kW to 15kW (20HP)
- High performance 5-blade propellers give equal thrust in both directions
- No reservoir to install, no leaks, and low maintenance
- Complete range of TT Electric Thruster accessories available



Page 110 Retracting Thruster

- Electronic box with waterproof connectors
- Strong actuator with safety shear pin for rapid deployment
- Unique 'low-pivot' mechanism enables deeper immersion while inhabiting a smaller space
- Customised boat-specific flange versions available for volume requirement
- Dual propellers on 185 & 250 models as standard



Page 112 Lewmar Proportional Thrusters

- Limitless running the only restriction is your battery capacity
- Ultimate control proportional throttling allows Retro-fit kits compatible with existing thrusters delicate maneuveuring
- Zero maintenance longer life without a need



Page 116 TT Hydraulic Thruster

- Enables significant flexibility of vessel movement
- Increased thrust over equivalent DC Electric version
- 250 and 300 models available with bronze or aluminium hub



Page 118 Custom Thrusters

- Unique Swing and Vertical Retracting Hydraulic Available with bronze or aluminium legs Thruster offers a completely fair hull section



Page 120 Accessories and Spares

- Thruster Tunnels
- Stern Kits
- Support brackets

- Anodes
- Propellers

How to choose the right thruster for your boat

The boat's wind area, the 'lateral wind draft area', and the thruster's tunnel position in the hull determine the thruster's performance on a boat. By knowing these factors we can calculate the wind pressure on the boat and the centre point of this wind pressure. From these calculations we can determine what thrust is needed to counter the wind pressure with the given thruster position. To gain total control of your boat, install both a bow and stern thruster, leaving the main engines to propel the boat forward and backward.

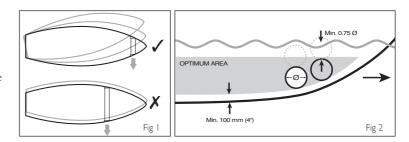
The main factors that decide correct thruster sizing are:

Position of the thruster

The actual position of the thruster will depend on the internal & external construction of the vessel.

For optimal performance the thruster should be mounted within the following parameters:

- As far forward as possible to maximise the lever effect. (Fig I)
- I x Ø (0.75 x Ø minimum) below the waterline to prevent air being sucked into the tunnel. (Fig. 2). Ø=Tunnel Diameter.
- Minimum suggested tunnel length $2 \times \emptyset$.



Boat size, type and shape



Light displacement / low windage

Light control / light displacement



Medium displacement / Medium windage

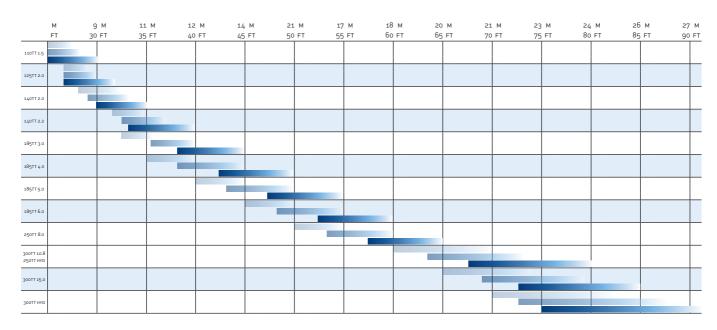




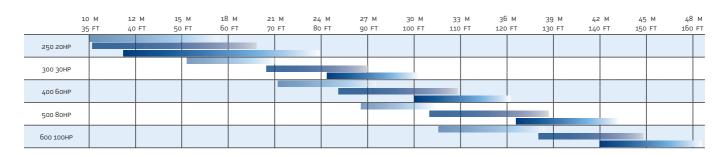
Heavy displacement / High windage

High control / Heavy boat

Boat length overall



Vertical Retracting and Swing Thrusters Size Guide

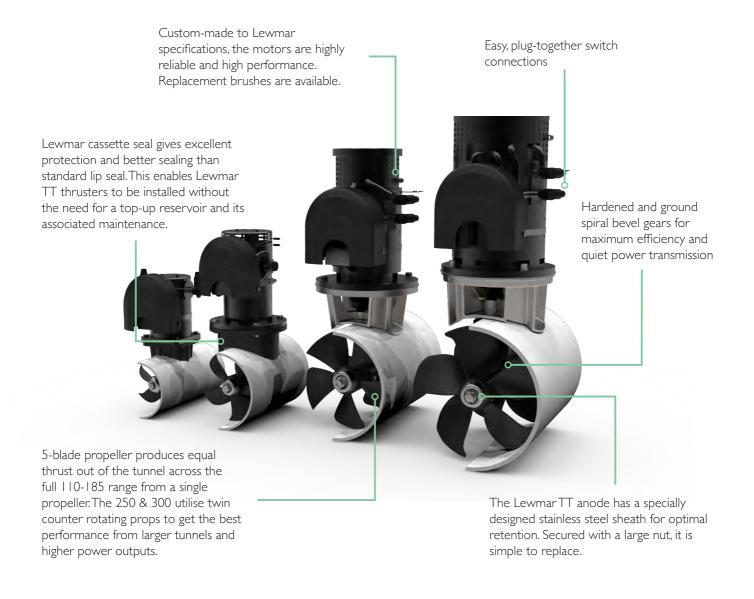


3. Thrusters



Lewmar TT Thrusters

Great care and attention to detail goes into the design and manufacture of every Lewmar thruster. High performance, ease-of-use and reliability are our priorities. In order to achieve that, every thruster we make includes the features below.



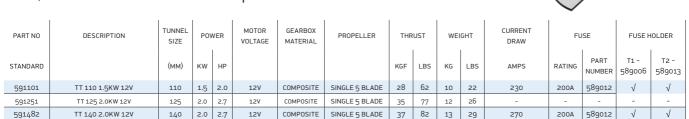


Small Boat TT Electric Thruster

The 110TT, 125TT and 140TT 2.0kW are also available without a blue box ICU. The simplified system provides a flexible and easy installation solution, without compromising on performance.

Simple System on its own





110TT, 125TT and 140TT 2.0 kW Simple Joystick

- Ideal entry level control of thrusters
- Features On/Off illumination
- Easy installation connection
- Auto-Shut off not available
- For use with 591101 and 591482 only

Simple Joystick Connecting Leads and Y Connectors

- Simply measure the distance from the thruster to the panel to choose the suitable lead
- If you are installing a second or third panel, use a Y Connector to divert power back to the thruster
- For connecting an additional panel, order an extra control loom for the distance to the extra panel
- Not compatible with GEN 2 systems



Cable Specifications

| • | |
|--------------|---------------|
| 4-WIRE CABLE | LENGTH |
| 589021 | 2M |
| 589016 | 7М |
| 589017 | 10M |
| 589018 | 14M |
| 589019 | 18M |
| 589206 | 'Y' CONNECTOR |

3. Thrusters



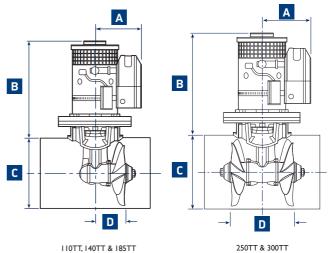
GEN 2TT Electric Thruster

TT Thruster Specifications

| PAR | T NO | DESCRIPTION | TUNNEL SIZE | POV | WER | MOTOR VOLTAGE | GEARBOX MATERIAL | PROPELLER | THR | UST | WEI | GHT | FL | ISE | FUSE H | HOLDER |
|-------------|------------|----------------------|----------------|------|------|------------------|---------------------|-----------------|-----|-----|-----|-----|--------|----------------|----------------|----------------|
| STANDARD | IP RATED | | (MM) | KW | HP | | | | KGF | LBS | KG | LBS | RATING | PART NUMBER | T1 - 589006 | T2 - 589013 |
| 590000 | 590001 | TT 110 12V | 110 | 1.5 | 2.0 | 12V | COMPOSITE | SINGLE 5 BLADE | 28 | 62 | 10 | 22 | 200A | 589012 | √ | √ |
| 590101 | 590102 | TT 125 2.0KW 12V | 125 | 2.0 | 2.7 | 12V | COMPOSITE | SINGLE 5 BLADE | 35 | 77 | 12 | 26 | - | - | - | - |
| 590002 | 590004 | TT 140 2.0KW 12V | 140 | 2.0 | 2.7 | 12V | COMPOSITE | SINGLE 5 BLADE | 37 | 82 | 13 | 29 | 200A | 589012 | √ | √ |
| 590003 | 590005 | TT 140 2.2KW 12V | 140 | 2.2 | 3.0 | 12V | COMPOSITE | SINGLE 5 BLADE | 42 | 93 | 13 | 29 | 200A | 589012 | √ | √ |
| 590006 | 590014 | TT 185 3.0KW 12V | 185 | 3.0 | 4.0 | 12V | ST/ST | SINGLE 5 BLADE | 58 | 128 | 20 | 43 | 250 | 589008 | √ | √ |
| 590007 | 590015 | TT 185 3.0KW 24V | 185 | 3.0 | 4.0 | 24V | ST/ST | SINGLE 5 BLADE | 58 | 128 | 20 | 43 | 130A | 589007 | √ | √ |
| 590008 | 590016 | TT 185 4.0KW 12V | 185 | 4.0 | 5.4 | 12V | ST/ST | SINGLE 5 BLADE | 65 | 143 | 20 | 43 | 400A | 589010 | | √ |
| 590009 | 590017 | TT 185 4.0KW 24V | 185 | 4.0 | 5.4 | 24V | ST/ST | SINGLE 5 BLADE | 65 | 143 | 20 | 43 | 130A | 589007 | √ | √w |
| 590010 | 590018 | TT 185 5.0KW 12V | 185 | 5.0 | 6.7 | 12V | ST/ST | SINGLE 5 BLADE | 82 | 181 | 27 | 59 | 400A | 589010 | | √ |
| 590011 | 590019 | TT 185 5.0KW 24V | 185 | 5.0 | 6.7 | 24V | ST/ST | SINGLE 5 BLADE | 82 | 181 | 27 | 59 | 130A | 589007 | √ | √ |
| 590012 | 590020 | TT 185 6.0KW 12V | 185 | 6.0 | 8.0 | 12V | ST/ST | SINGLE 5 BLADE | 97 | 214 | 27 | 59 | 500A | 589011 | | √ |
| 590013 | 590021 | TT 185 6.0KW 24V | 185 | 6.0 | 8.0 | 24V | ST/ST | SINGLE 5 BLADE | 97 | 214 | 27 | 59 | 325A | 589009 | √ | √ |
| 590022 | | TT 250 8.0KW 24V AL | 250 | 8.0 | 10.8 | 24V | ALUMINIUM | TWIN CR 5 BLADE | 140 | 308 | 46 | 206 | 400A | 589010 | | √ |
| 590024 | | TT 250 8.0KW 24V | 250 | 8.0 | 10.8 | 24V | BRONZE | TWIN CR 5 BLADE | 140 | 308 | 46 | 206 | 400A | 589010 | | √ |
| 590030 | | TT 300 10.8KW 24V AL | 300 | 10.8 | 14.5 | 24V | ALUMINIUM | TWIN CR 5 BLADE | 250 | 550 | 65 | 143 | 500A | 589011 | | √ |
| 590031 | | TT 300 15.0KW 48V AL | 300 | 15.0 | 20.0 | 24V | ALUMINIUM | TWIN CR 5 BLADE | 280 | 616 | 68 | 150 | 400A | 58910 | | √ |
| 590032 | | TT 300 17.0KW 48V AL | 300 | 17.0 | 22.7 | 48V | ALUMINIUM | TWIN CR 5 BLADE | 235 | | | | 400A | 589011 | | √ |
| 590033 | | TT 300 10.8KW 24V | 300 | 10.8 | 14.5 | 24V | BRONZE | TWIN CR 5 BLADE | 250 | 550 | 65 | 143 | 500A | 589011 | | √ |
| 590034 | | TT 300 15.0KW 48V | 300 | 15.0 | 20.0 | 24V | BRONZE | TWIN CR 5 BLADE | 280 | 616 | 38 | 150 | 400A | 589011 | | √ |
| 590035 | | TT 300 17.0KW 48V | 300 | 17.0 | 22.7 | 48V | BRONZE | TWIN CR 5 BLADE | 235 | 518 | 87 | 192 | 400A | 589011 | | √ |
| CR = COUNTE | R ROTATING | | | | | | | | | | | | | | | |

TT Dimensions

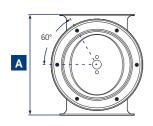
| MODEL | A | A | | 3 | | | D | | | |
|-----------------------|-----|-------------------------------|-----|--------------------------------|-----|----------------------------------|-----|---------------------------------|--|--|
| | ММ | IN | ММ | IN | ММ | IN | ММ | IN | | |
| 110TT 1.5 | 123 | 4 ⁵ / ₆ | 208 | 8 ³ / ₁₆ | 110 | 41/3 | 64 | 21/2 | | |
| 125TT 2.0 | 123 | 4 ⁵ / ₆ | 209 | 8 1/4 | 125 | 5 | 71 | 21/2 | | |
| 140TT 2.0 | 123 | 4 ⁵ /6 | 213 | 8 ³ / ₈ | 140 | 5 1/2 | 71 | 2 ¹³ / ₁₆ | | |
| 140TT 2.2 | 123 | 4 ⁵ / ₆ | 235 | g ¹ / ₄ | 140 | 5 1/2 | 71 | 2 ¹³ / ₁₆ | | |
| 185TT 3.0 / 185TT 4.0 | 148 | 5 7/8 | 293 | 11 1/2 | 185 | 7 ⁵ /16 | 83 | 3 ¹ / ₄ | | |
| 185TT 5.0 | 162 | 6 ³ / ₈ | 315 | 12 3/8 | 185 | 7 ⁵ /16 | 83 | 3 1/4 | | |
| 185TT 5.0 | 162 | 6 ³ / ₈ | 315 | 12 3/8 | 185 | 7 ⁵ /16 | 83 | 3 1/4 | | |
| 185TT 6.0 | 161 | 6 ³ / ₈ | 343 | 13 1/2 | 185 | 7 ⁵ / ₁₆ | 83 | 3 1/4 | | |
| 185TT 6.0 | 161 | 6 ³ / ₈ | 343 | 13 1/2 | 185 | 7 ⁵ /16 | 83 | 3 ¹ / ₄ | | |
| 250TT 8.0 | 165 | 6 ¹ / ₂ | 422 | 16 5/8 | 250 | 9 ¹³ /16 | 256 | 10 1/16 | | |
| 300TT 10.8/300TT 15 | 203 | 8 | 450 | 17 11/16 | 300 | 11 ¹³ / ₁₆ | 320 | 12 7/8 | | |

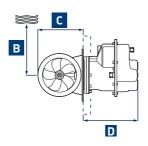


250TT & 300TT



IPThruster Dimensions





| MODEL | 1 | A | | В | 0 | | D | | |
|-----------------|-----|-------------------------------|-----|----------|-----|-------------------------------|-----|--------|--|
| | ММ | IN | ММ | IN | ММ | IN | ММ | IN | |
| 140 IP THRUSTER | 225 | 8 ⁷ / ₈ | 210 | 8 1/4 | 190 | 7 1/2 | 273 | 10 3/4 | |
| 185 IP THRUSTER | 320 | 12 5/8 | 278 | 10 15/16 | 248 | g ³ / ₄ | 298 | 11 3/4 | |

Blue Box Systems

The Lewmar blue box system is the new design of ICU in our next-generation thruster system. The main electronic components of the system have been completely redesigned to increase reliability and functionality.

The configuration has been designed to be as simple and reliable as possible while incorporating today's technological trends. The blue box system is used on all Gen 2 thrusters from 110 to 300TT.



- Health-check LED and on-board fuse
- Powers and provides logic for panel controller
- Phoenix contact for power and neutral
- One ICU per thruster
- Compatible with ABS and power switches

| PART NUMBER | DESCRIPTION |
|-------------|----------------|
| 589274 | TT TRUSTER ICU |
| 589296 | RT TRUSTER ICU |

3. Thrusters



Thruster Control Panels

Lewmar's new range of thruster control panels provide superior tactile control of single or dual thruster installations.

The panels are designed for all Lewmar TT, RT, SRT & VRT thrusters fitted with a blue box and can be fitted to thrusters fitted with a black-box using a controller adaptor.

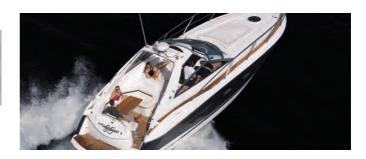
The control panels are installed without the need for rear access and feature a snap-on bezel to neatly hide the mounting screws. A cover (Pad only) is also included, providing additional security against accidental use and giving extra environmental protection. If replacing a previous generation touch panel, joystick panel or dual joystick panel, the existing mounting hole can be reused.

- Ergonomic control 'pad' gives tactile feedback
- Membrane switch panel sealed from dust and moisture ingress
- Single and dual controllers available
- Dual controllers give total control of vessel via multi-axis function pad
- 12-24V dual voltage supply
- Multi-function LED indicator displays system deployment, thruster operation, low voltage, motor temperature warnings & fault conditions.
- Upgrade kit allows installation of single or dual controllers into a thruster system with previous generation controllers
- Fit existing cut-out of Lewmar joysticks
- Removable cover on pad controllers





| PART NUMBER | DESCRIPTION |
|-------------|-----------------|
| 589268 | SINGLE JOYSTICK |
| 589223 | SINGLE PAD |
| 589267 | DUAL JOYSTICK |
| 589222 | DUAL PAD |



Single/Dual Controller Connecting Leads and Splitter

- Simply measure the distance from the Thruster to the Panel to choose th suitable lead
- If you are installing a second or third panel, use a Y Connector to divert power back to the Thruster
- Y connectors can only be used with like for like panels (Dual with dual / Single with single)

| Y LOOM MX | |
|-----------|--|
| 589800 | |
| | |
| | |
| | |
| | |

| AUX LOOM MX | LENGTH |
|-------------|--------|
| 589801 | 2M |
| 589802 | 7М |
| 589803 | 10M |
| 589804 | 18M |
| 589805 | 22M |





Lewmar Retractable Thrusters

Lewmar's range of retractable thrusters have been developed in conjunction with boat owners and their needs. Particular care and attention to the detail of the installation process was taken into consideration while retaining the proven components from the Lewmar TT thruster range. Lewmar thrusters achieve even thrust in both directions for maximum control and manoeuvrability. All Lewmar thrusters have been extensively tested, resulting in a smooth, efficient and reliable operation.

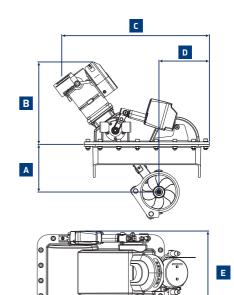
- The patented 'low pivot' mechanism minimises internal space requirements yet permits maximum tunnel immersion
- Flange mounting as standard for easy installation. The universal flange can be adjusted to any given hull shape
- Robust GRP construction
- 140, 185 and 250mm tunnel diameters available
- Auto-retract function after 5 minutes of non-use
- Dual propellers on 185 & 250 models as standard





RT Thruster Dimensions

| 1 | | | | | | | | | | _ | |
|------------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|--|
| | / | Ą | L | 3 | С | | L | ס | E | | |
| THRUSTER | ММ | IN | |
| 140TT 2.0KW 12V | 196 | 7 23/32 | 315 | 12 13/32 | 612 | 24 3/32 | 207 | 8 5/32 | 310 | 12 13/64 | |
| 140TT 2.2KW 12V | 196 | 7 23/32 | 315 | 12 13/32 | 612 | 24 3/32 | 207 | 8 5/32 | 310 | 12 13/64 | |
| 185TT 4.0KW 12V | 220 | 8 21/32 | 360 | 14 11/64 | 690 | 27 11/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 4.0KW 24V | 220 | 8 21/32 | 360 | 14 11/64 | 690 | 27 11/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 5.0KW 12V | 220 | 8 21/32 | 385 | 15 5/32 | 690 | 27 11/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 5.0KW 24V | 220 | 8 21/32 | 385 | 15 5/32 | 710 | 27 61/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 6.0KW 12V | 220 | 8 21/32 | 410 | 16 9/64 | 710 | 27 61/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 6.0KW 24V | 220 | 8 21/32 | 410 | 16 9/64 | 730 | 27 61/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 185TT 7.0KW HYD | 220 | 8 21/32 | 250 | 9 27/32 | 730 | 27 61/64 | 242 | 9 17/32 | 346 | 13 5/8 | |
| 250TT 8.0KW 12V | 303 | 11 59/64 | 505 | 19 7/8 | 940 | 37 1/64 | 306 | 12 3/64 | 468 | 18 27/64 | |
| 250TT 15.0KW HYD | 303 | 11 59/64 | 310 | 12 13/64 | 810 | 31 57/64 | 306 | 12 3/64 | 468 | 18 27/64 | |



| PART NUMBER | IP PART NUMBER | DESCRIPTION | TUNNEL SIZE | ACTU. | ATOR | POV | VER | ١ | иотоі | R | POWER SWITCH | GEARBOX MATERIAL | PROPELLER | THR | UST | WEI | БНТ | FU | ISE | FUSE I | HOLDER |
|----------------|-------------------|---------------------|----------------|-------|--------------|------|------|-----|-------|-----|-----------------|---------------------|-----------------|-----|-----|------|-----|--------|----------------|----------------|----------------|
| | | | | 12V | 24V | ĸw | HP | 12V | 24V | HYD | 12 TO 24 | | | KGF | LBS | KG | LBS | RATING | PART NUMBER | T1 - 589006 | T2 - 589013 |
| 59111001 | 59111003 | RT140 2.0KW 12V | 140 | √ | | 2.0 | 2.7 | √ | | | | COMPOSITE | SINGLE 5 BLADE | 37 | 82 | 29.2 | 65 | 200A | 589012 | √ | √ |
| 59111002 | 59111004 | RT140 2.2KW 12V | 140 | √ | | 2.2 | 3.0 | √ | | | | COMPOSITE | SINGLE 5 BLADE | 42 | 93 | 29.2 | 65 | 200A | 589012 | √ | √ |
| 59112004 | 59112019 | RT185 4.0KW 12V | 185 | √ | | 4.0 | 5.4 | √ | | | | BRASS | DUAL 5 BLADE | 65 | 143 | 44.8 | 99 | 400A | 589010 | | √ |
| 59112005 | 59112020 | RT185 4.0KW 24V/12V | 185 | √ | | 4.0 | 5.4 | | √ | | √ | BRASS | DUAL 5 BLADE | 65 | 143 | 43 | 95 | 130A | 589007 | | √ |
| 59112006 | 59112021 | RT185 4.0KW 24V | 185 | | √ | 4.0 | 5.4 | | √ | | | BRASS | DUAL 5 BLADE | 65 | 143 | 43 | 95 | 130A | 589007 | | √ |
| 59112007 | 59112022 | RT185 5.0KW 12V | 185 | √ | | 5.0 | 6.7 | √ | | | | BRASS | DUAL 5 BLADE | 82 | 181 | 53.4 | 118 | 400A | 589010 | | √ |
| 59112008 | 59112023 | RT185 5.0KW 24V/12V | 185 | √ | | 5.0 | 6.7 | | √ | | √ | BRASS | DUAL 5 BLADE | 82 | 181 | 51.4 | 114 | 130A | 589007 | √ | √ |
| 59112009 | 59112024 | RT185 5.0KW 24V | 185 | | √ | 5.0 | 6.7 | | √ | | | BRASS | DUAL 5 BLADE | 82 | 181 | 51.4 | 114 | 130A | 589007 | √ | √ |
| 59112010 | 59112025 | RT185 6.0KW 12V | 185 | √ | | 6.0 | 8.0 | √ | | | | BRASS | DUAL 5 BLADE | 97 | 214 | 53 | 117 | 500A | 589011 | | √ |
| 59112011 | 59112026 | RT185 6.0KW 24V/12V | 185 | √ | | 6.0 | 8.0 | | √ | | √ | BRASS | DUAL 5 BLADE | 97 | 214 | 51.5 | 114 | 325A | 589009 | √ | √ |
| 59112012 | 59112027 | RT185 6.0KW 24V | 185 | | √ | 6.0 | 8.0 | | √ | | | BRASS | DUAL 5 BLADE | 97 | 214 | 51.5 | 114 | 325A | 589009 | √ | √ |
| 59112013 | | RT185 HYD 12V | 185 | √ | | 7.0 | 10.0 | | | √ | | BRASS | DUAL 5 BLADE | 100 | 220 | 33 | 73 | | | | |
| 59112014 | | RT185 HYD 24V | 185 | | \checkmark | 7.0 | 10.0 | | | √ | | BRASS | DUAL 5 BLADE | 100 | 220 | 33 | 73 | | | | |
| 59113001 | | RT250 8.0KW 24V/12V | 250 | √ | | 8.0 | 10.8 | | √ | | √ | BRONZE | TWIN CR 5 BLADE | 140 | 308 | 107 | 236 | 400A | 589010 | | √ |
| 59113002 | | RT250 8.0KW 24V | 250 | | √ | 8.0 | 10.8 | | √ | | | BRONZE | TWIN CR 5 BLADE | 140 | 308 | 107 | 236 | 400A | 589010 | | √ |
| 59113005 | | RT250 HYD 12V | 250 | √ | | 15.0 | 20.0 | | | √ | | BRONZE | TWIN CR 5 BLADE | 200 | 440 | 74 | 163 | | | | |
| 59113006 | | RT250 HYD 24V | 250 | | √ | 15.0 | 20.0 | | | √ | | BRONZE | TWIN CR 5 BLADE | 200 | 440 | 74 | 163 | | | | |



Lewmar Proportional Thrusters

The new Proportional thrusters from Lewmar have unlimited run-time, are very quiet in use, maintenance free and suitable for 24V installation. The proportional series can be controlled by one of the four new proportional control panels developed for this new type of motor.

The proportional thrusters motor is a nearly silent motor and has unlimited runtime. The induction motor is controlled by the Lewmar Curtis controller. This in-house engineered motor controller can control 24V inputs. With this new system, Brushless wmotors have been chosen for their efficiency and unlimited runtime, and their ability to withstand tough sailing.

Retrofitting the Lewmar proportional series is also very easy. The proportional thrusters are backwards compatible to replace existing Lewmar bow thrusters installations.

- Limitless running the only restriction is your battery capacity
- Ultimate control proportional throttling allows delicate maneuveuring





Proportional Thrusters Kits

| PART NO | DESCRIPTION | TUNNEL SIZE | POWER | SHEAR PIN | AMPS | KGF |
|----------|----------------------------------|----------------|-------|--------------|--------------|----------------------------|
| 24V | | | KW | | CURRENT DRAW | THRUST @ 100% THROTTLE KGF |
| 59092000 | 140 TT 2.2 KW PROPORTIONAL | 140 | 22 | ST/ST | 100 | 21 |
| 59092001 | 140 TT 2.2 KW PROPORTIONAL BRASS | 140 | 2.2 | ST/ST | 100 | 21 |
| 59093000 | 185 TT 3.0KW PROPORTIONAL ST/ST | 185 | 3.0 | ST/ST | 150 | 45 |
| 59093001 | 185 TT 3.0KW PROPORTIONAL ALLOY | 185 | 3.0 | ST/ST | 150 | 45 |
| 59093002 | 185 TT 4.0KW PROPORTIONAL ST/ST | 185 | 4.0 | ST/ST | 180 | 60 |
| 59093003 | 185 TT 4.0KW PROPORTIONAL ALLOY | 185 | 4.0 | ST/ST | 180 | 60 |
| 59093004 | 186 TT 5.0KW PROPORTIONAL ST/ST | 185 | 5.0 | ST/ST | 215 | 67 |
| 59093005 | 186 TT 5.0KW PROPORTIONAL ALLOY | 185 | 5.0 | ST/ST | 215 | 67 |
| 59093006 | 186 TT 6.0KW PROPORTIONAL ST/ST | 185 | 6.0 | ST/ST | 240 | 76 |
| 59093007 | 186 TT 6.0KW PROPORTIONAL ALLOY | 185 | 6.0 | ST/ST | 240 | 76 |
| 59094001 | 250 TT 8.0KW 24V PROPORTIONAL | 250 | 8.0 | ST/ST | 360 | 119 |

Retro Fit Proportional Motor Kits

| PART NO | DESCRIPTION | TUNNEL SIZE | POWER | MOTOR VOLTAGE | SHEAR PIN | AMPS | KGF |
|----------|---|----------------|-------|------------------|--------------|--------------|----------------------------|
| 24V | | (MM) | KW | | | CURRENT DRAW | THRUST @ 100% THROTTLE KGF |
| 59092003 | 140 TT 2.2KW PROPORTIONAL RETRO KIT | 140 | 2.2 | 24 | ST/ST | 100 | 21 |
| 59092004 | 140 TT 2.0KW PROPORTIONAL BRASS RETRO KIT | 140 | 2.2 | 24 | ST/ST | 100 | 21 |
| 59093020 | 185 TT 3.0KW PROPORTIONAL ST/ST RETRO KIT | 185 | 3.0 | 24 | ST/ST | 150 | 45 |
| 59093021 | 185 TT 3.0KW PROPORTIONAL ALLOY RETRO KIT | 185 | 3.0 | 24 | ST/ST | 150 | 45 |
| 59093022 | 185 TT 4.0KW PROPORTIONAL ST/ST RETRO KIT | 185 | 4.0 | 24 | ST/ST | 180 | 60 |
| 59093023 | 185 TT 4.0KW PROPORTIONAL ALLOY RETRO KIT | 185 | 4.0 | 24 | ST/ST | 180 | 60 |
| 59093024 | 186 TT 5.0KW PROPORTIONAL ST/ST RETRO KIT | 185 | 5.0 | 24 | ST/ST | 215 | 67 |
| 59093025 | 186 TT 5.0KW PROPORTIONAL ALLOY RETRO KIT | 185 | 5.0 | 24 | ST/ST | 215 | 67 |
| 59093026 | 186 TT 6.0KW PROPORTIONAL ST/ST RETRO KIT | 185 | 6.0 | 24 | ST/ST | 240 | 76 |
| 59093027 | 186 TT 6.0KW PROPORTIONAL ALLOY RETRO KIT | 185 | 6.0 | 24 | ST/ST | 240 | 76 |
| 59094003 | 250 TT 8.0KW 24V PROPORTIONAL RETRO KIT | 250 | 8.0 | 24 | ST/ST | 360 | 119 |

Wiring Loom Kits

The proportional thruster systems and kits DO NOT include loom or control panel. For each install, we RECOMMEND selecting the length of the control panel loom carefully.

Control loom available in 7m, 10m, 14m, 18m, 22m.

| PART NUMBER | DESCRIPTION |
|-------------|--------------------------|
| 58090009 | CONTROL PANEL LOOM - 7M |
| 58090010 | CONTROL PANEL LOOM - 10M |
| 58090011 | CONTROL PANEL LOOM - 14M |
| 58090012 | CONTROL PANEL LOOM - 18M |
| 58090013 | CONTROL PANEL LOOM - 22M |
| 58090019 | SPLITTER ASSY |



Proportional Retracting Thrusters

The new proportional thrusters from Lewmar are also available for our Retracting thruster range. The proportional thrusters motor is a nearly silent motor and has unlimited runtime. The induction motor is controlled by the Lewmar Curtis controller. This in-house engineered motor controller can control 24V inputs.

Retrofitting the Lewmar proportional motor is also very easy. The proportional motor are backwards compatible to replace existing Lewmar retracing thrusters motors. The retrofit kits also include a pre-wired tunnel actuator.

- Flange mounting as standard for easy installation. The universal flange can be adjusted to any given hull shape and the captive nut allows effortless fastening from the top of the unit only
- Robust GRP construction
- 140, 185 and 250mm tunnel diameters available
- Auto-retract function after 5 minutes of non-use
- Dual propellers on 185 & 250 models as standard



| PART NO | DESCRIPTION | TUNNEL SIZE | POWER | MOTOR VOLTAGE | SHEAR PIN | AMPS | KGF |
|----------|-------------------------------|----------------|-------|------------------|--------------|--------------|----------------------------|
| 24V | | (MM) | KW | | | CURRENT DRAW | THRUST @ 100% THROTTLE KGF |
| 59092002 | 140 RT 2.2KW PROPORTIONAL | 140 | 2.2 | 24 | ST/ST | 110 | 18 |
| 59093010 | 185 RT 4.0KW PROPORTIONAL | 185 | 4.0 | 24 | ST/ST | 190 | 50 |
| 59093011 | 185 RT 5.0KW PROPORTIONAL | 185 | 5.0 | 24 | ST/ST | 220 | 60 |
| 59093012 | 185 RT 6.0KW PROPORTIONAL | 185 | 6.0 | 24 | ST/ST | 250 | 72 |
| 59094002 | 250 RT 8.0KW 24V PROPORTIONAL | 250 | 8.0 | 24 | N/A | 375 | 110 |

| PART NO | DESCRIPTION | TUNNEL SIZE | POWER | MOTOR VOLTAGE | SHEAR PIN | AMPS | KGF |
|----------|---|----------------|-------|------------------|--------------|--------------|----------------------------|
| STANDARD | | (MM) | KW | | | CURRENT DRAW | THRUST @ 100% THROTTLE KGF |
| 59092005 | 140 RT 2.2KW PROPORTIONAL RETRO KIT | 140 | 2.2 | 24 | ST/ST | 110 | 18 |
| 59093013 | 185 RT 4.0KW PROPORTIONAL RETRO KIT | 185 | 4.0 | 24 | ST/ST | 190 | 50 |
| 59093014 | 185 RT 5.0KW PROPORTIONAL RETRO KIT | 185 | 5.0 | 24 | ST/ST | 220 | 61 |
| 59093015 | 185 RT 6.0KW PROPORTIONAL RETRO KIT | 185 | 6.0 | 24 | ST/ST | 250 | 72 |
| 59094004 | 250 RT 8.0KW 24V PROPORTIONAL RETRO KIT | 250 | 8.0 | 24 | N/A | 375 | 110 |



Proportional Control Thrusters

The combination of Lewmar's DC digital brushless motors and proportional control panels provide ultimate control over your boat.

Designed to mimic the experience of a hydraulic system, an adjustable throttle allows delicate and refined maneuveuring. Brushless motors have been chosen for their efficiency and extended runtime and their ability to withstand tough sea conditions. Lewmar's deep-rooted engineering experience gives you the ability to dock in the most difficult situations.

- Superior runtime over traditional brush motors
- Ultimate control proportional throttling allows delicate maneuveuring
- Zero maintenance with no brushes to replace, our new motors have a longer life without a need for servicing
- · Control panels available in single and dual arrangements, with composite or high-quality aluminium bezel
- Compatible with existing thruster installations





TT Hydraulic Thrusters

When longer duration is required or weight and space are critical, the hydraulic TT Thrusters are the ideal solution.

- Increased thrust in comparison to equivalent Electric TT Thruster
- Hydraulic thrusters typically powered by main engine or generator PTO pump
- Lewmar offers a custom tailored hydraulic solution
- 250TTH and 300TTH available with bronze or aluminium hub
- Proportional control available



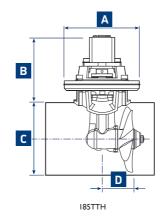
TT Hydraulic Thruster Specifications

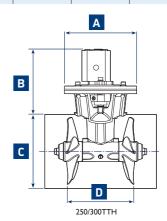
| , | | | | | | | | | | | | |
|---------|--------|--------|-----------|----|------|-----|------|--------|-----------|------------|-------|-------------|
| PART NO | MODEL | TUNNEL | PROPELLER | WE | GHT | POV | WER | THRUST | GEARBOX | MOTOR SIZE | FLOW | PRESSURE |
| | | | | KG | LB | HP | кw | KGF | | CC/REV | L/MIN | BAR [DELTA] |
| 591820 | 185ТТН | 185 | SINGLE | 8 | 17.6 | 10 | 7 | | BRONZE | 6 | 25 | 210 |
| 591821 | 185ТТН | 185 | SINGLE | 8 | 17.6 | 10 | 7 | | BRONZE | 5 | 21 | 250 |
| 592522 | 250ТТН | 250 | TWIN CR | 13 | 28.6 | 20 | 15 | 200 | BRONZE | 14 | 44 | 230 |
| 592521 | 250ТТН | 250 | TWIN CR | 13 | 28.6 | 20 | 15 | 200 | BRONZE | 17 | 53 | 190 |
| 592511 | 250ТТН | 250 | TWIN CR | 13 | 28.6 | 20 | 15 | 200 | ALUMINIUM | 17 | 53 | 190 |
| 592520 | 250ТТН | 250 | TWIN CR | 13 | 28.6 | 20 | 15 | 200 | BRONZE | 26 | 82 | 122 |
| 592510 | 250ТТН | 250 | TWIN CR | 13 | 28.6 | 20 | 15 | 200 | ALUMINIUM | 26 | 82 | 122 |
| 593023 | Зооттн | 300 | TWIN CR | 17 | 37-4 | 30 | 22.5 | 300 | BRONZE | 19 | 52 | 290 |
| 593022 | Зооттн | 300 | TWIN CR | 17 | 37-4 | 30 | 22.5 | 300 | BRONZE | 22 | 62 | 245 |
| 593021 | 300ТТН | 300 | TWIN CR | 17 | 37-4 | 30 | 22.5 | 300 | BRONZE | 26 | 72 | 210 |
| 593011 | Зооттн | 300 | TWIN CR | 17 | 37.4 | 30 | 22.5 | 300 | ALUMINIUM | 26 | 72 | 210 |
| 593020 | Зооттн | 300 | TWIN CR | 17 | 37-4 | 30 | 22.5 | 300 | BRONZE | 30 | 82 | 182 |
| 593010 | 300ТТН | 300 | TWIN CR | 17 | 37-4 | 30 | 22.5 | 300 | ALUMINIUM | 30 | 82 | 182 |

CR = COUNTER ROTATING

Dimensions

| MODEL | MODEL | | | В | | С | D | | |
|--------|-------|---------|-----|---------------------------------|-----|---------------------------------|-----|--------------------------------|--|
| | ММ | IN | ММ | IN | ММ | IN | ММ | IN | |
| 185ТТН | 200 | 7 7/8 | 202 | 7 ¹⁵ / ₁₆ | 185 | 7 9/32 | 83 | 3 ⁹ / ₃₂ | |
| 250TTH | 258 | 10 5/32 | 227 | 8 ¹⁵ / ₁₆ | 250 | g ²⁷ / ₃₂ | 257 | 10 1/8 | |
| 300TTH | 258 | 10 5/32 | 256 | 10 1/16 | 300 | 11 13/16 | 320 | 12 19/32 | |







Hydraulic Thruster Control Panels

Lewmar's new range of thruster controls provides stylish and reliable control in all situations.

Our hydraulic controllers are designed to be integrated with a full hydraulic solution. They provide simple and dynamic control of Lewmar thruster units and offer a stylish alternative to the standard control panel range. Created to blend with the most advanced yacht consoles, Lewmar hydraulic controllers are robust, sensitive and striking.

- Single and dual controllers available
- Installed as part of a custom Lewmar hydraulic solution
- Stainless steel bezel provides strength and style

| PART NUMBER | DESCRIPTION |
|-------------|-----------------|
| 589845 | SINGLE JOYSTICK |
| 589846 | DUAL JOYSTICK |



Custom Thrusters

Manoeuvring larger vessels in the confines of a busy harbour or marina can challenge the most skilled crew. Cross winds and tides can be difficult to overcome with conventional propulsion and steering gear, particularly when mooring 'stern to'.

Lewmar Custom Thrusters can help provide additional control just when you need it, at the touch of a button or the move of a joystick. The Lewmar range of thrusters is suitable for sail or power vessels up to 164ft.

Vertical Retracting Tunnel Thruster

- Suitable for vessels up to 164ft (50m)
- When not in use, the Thruster retracts into the hull leaving a clean line, so there is no drag
- The 300 VRTT Hydraulic is capable of developing more than 30HP
- Bronze or Aluminium hub option
- Custom extended stroke available

- Better thruster immersion
- Can be mounted further forward
- Better performance per HP than standard tunnel Thruster
- Manual override
- 250/300 VRTT 24V DC electric raise/lower





Vertical Retracting Thruster Electric Specifications

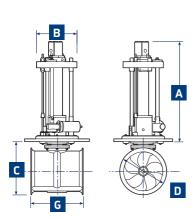
| PART NO | MODEL | TUNNEL | PROPELLER | WEI ĸg | GHT LB | POV HP | VER kw | THRUST KGF | GEARBOX | VOLTAGE | |
|----------|----------|--------|-----------|-----------|-----------|-----------|-----------|---------------|---------|---------|--|
| 59127100 | 250VRTTE | 250 | TWIN CR | 98 | 216 | 10.7 | 8 | 160 | BRONZE | 24VDC | |
| 59127110 | 250VRTTE | 250 | TWIN CR | 102 | 224.9 | 13 | 9.6 | 170 | BRONZE | 48VDC | |

Vertical Retracting Thruster Hydraulic Specifications

| P/N | MODEL | TUNNEL | PROP | WEI KG | GHT LB | PO\ HP | VER | THRUST KGF | GEARBOX | MOTOR SIZE cc/rev | FLOW L/MIN | PRESSURE BAR [DELTA] |
|----------|----------|--------|---------|-----------|-----------|-----------|------|---------------|-----------|-------------------------|---------------|-------------------------|
| 59127002 | 250VRTTH | 250 | TWIN CR | 65 | 143.3 | 20 | 15 | 200 | BRONZE | 26 | 82 | 122 |
| 59127004 | 250VRTTH | 250 | TWIN CR | 65 | 143.3 | 20 | 15 | 200 | BRONZE | 17 | 53 | 190 |
| 59137001 | 300VRTTH | 300 | TWIN CR | 75 | 165.3 | 30 | 22.5 | 300 | ALUMINIUM | 30 | 82 | 182 |
| 59137002 | 300VRTTH | 300 | TWIN CR | 75 | 165.3 | 30 | 22.5 | 300 | BRONZE | 30 | 82 | 182 |
| 59137003 | 300VRTTH | 300 | TWIN CR | 75 | 165.3 | 30 | 22.5 | 300 | ALUMINIUM | 26 | 72 | 210 |
| 59137004 | 300VRTTH | 300 | TWIN CR | 75 | 165.3 | 30 | 22.5 | 300 | BRONZE | 26 | 72 | 210 |

⁴⁰⁰SVTH/ 500SVTH and 600SVTH available. Contact custom@lewmar.com for more information

Dimensions





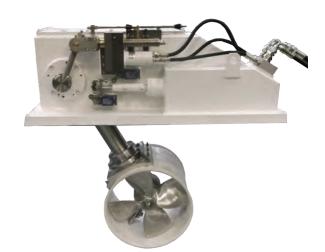


| MODEL | A B | | В | (| 2 | | D | | E | | F | (| 3 | | DARD OKE | |
|----------|-----|---------------------------------|-----|----------------------|-----|--------------------------------|-----|----------------------------------|-----|---------------------------------|-----|----------------------------------|-----|--------|-------------|---------------------------------|
| | мм | IN | ММ | IN | ММ | IN | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 250VRTTH | 721 | 28 ³ / ₈ | 310 | 12 7/32 | 353 | 13 7/8 | 300 | 11 ¹³ / ₁₆ | 450 | 17 ²³ /32 | 400 | 15 ³ / ₄ | 350 | 13 3/4 | 300 | 11 13/16 |
| 250VRTTE | 911 | 35 ⁷ /8 | 310 | 12 7/32 | 353 | 13 7/8 | 300 | 11 13/16 | 450 | 17 ²³ /32 | 400 | 15 ³ / ₄ | 350 | 13 3/4 | 300 | 11 13/16 |
| 300VRTTH | 765 | 30 ¹ / ₈ | 310 | 12 7/32 | 407 | 16 | 360 | 14 3/16 | 500 | 19 11/16 | 450 | 17 23/32 | 400 | 15 3/4 | 350 | 13 3/4 |
| 400SVTH | 548 | 21 ⁹ / ₁₆ | 400 | 15 3/4 | 533 | 21 | 430 | 16 ¹⁵ / ₁₆ | 580 | 22 ²⁷ /32 | 520 | 20 ¹⁵ / ₃₂ | 340 | 13 3/8 | 500 | 19 11/16 |
| 500SVTH | 575 | 22 5/8 | 400 | 15 3/4 | 645 | 25 ³ / ₈ | 533 | 21 | 700 | 27 ⁹ / ₁₆ | 640 | 25 ³ / ₁₆ | 480 | 18 7/8 | 650 | 25 ¹⁹ /32 |
| 6oosvTH | 795 | 31 ⁵ / ₁₆ | 480 | 18 ²⁹ /32 | 801 | 31 ⁹ /16 | 650 | 25 ¹⁹ /32 | 850 | 33 ¹⁵ /32 | 850 | 33 ¹⁵ /32 | 550 | 21 5/8 | 700 | 27 ⁹ / ₁₆ |

Swing Retracting Hydraulic Thruster

- Ideal for higher performance sailing yachts, fast-planing or semi-displacement hulls
- Raised position offers a completely fair hull section causing minimum drag
- No hydraulic motors or hoses are immersed in the water
- Can be mounted further forward in the vessel without additional space intrusion into the forepeak
- Enhanced thrust performance from a lesser power input
- Better performance per HP than standard tunnel Thruster

- Bronze or Aluminium hub
- Manual override
- 500 series has an extended leg section that provides deeper thruster immersion
- 500 series can be mounted further forward than standard model, offering greater manoeuvrability

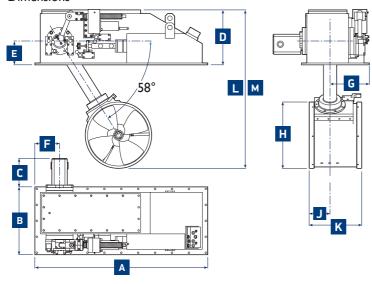


Swing Retracting Hydraulic Thruster Selection Guide

| PAF | RT NUMBER | MODEL | MATERIAL POWER TYPICAL VESSEL SIZE | | | | THRUST |
|-----|-----------|--|------------------------------------|-------|-------|--------|---------------------------|
| | | | ALUMINIUM | HP | М | FT | |
| 5 | 51000370 | 400 S SWING RETRACTING HYDRAULIC THRUSTER SERIES | 400 SAH | 30-60 | 20-37 | 65-120 | 8-10 KG/KW (18-22 LBS/HP) |
| 5 | 51000470 | 500 S SWING RETRACTING HYDRAULIC THRUSTER SERIES | 500 SAH | 65-75 | 25-43 | 80-140 | 8-10 KG/KW (18-22 LBS/HP) |
| | | | | | | | |

Contact custom@lewmar.com for more information

Dimensions



Dimensions

| MODEL | ļ | A | E | 3 | (| | 0 | | E | | | F | (| 5 | ŀ | 1 | | J | I | (| L | | N | A |
|----------------|------|--------------------------------|-----|---------------------------------|-------|---------------------------------|-----|--------------------------------|-------|--------------------------------|-----|--------------------------------|-----|---------------------------------|-----|----------------------------------|-----|--------------------------------|-----|----------------------------------|-----|--------------------------------|------|----------|
| | ММ | INS | ММ | INS | мм | INS | ММ | INS | ММ | INS | ММ | INS | ММ | INS | ММ | INS | ММ | INS | ММ | INS | ММ | INS | мм | INS |
| 400 SWING 40HP | 1120 | 44 1/8 | 440 | 17 5/16 | 184 | 7 1/4 | 390 | 15 ³ / ₈ | 154.5 | 6 ³ / ₃₂ | 160 | 6 ⁵ / ₁₆ | 255 | 10 1/32 | 430 | 16 ¹⁵ / ₁₆ | 135 | 5 ⁵ / ₁₆ | 340 | 13 3/8 | 603 | 23 3/4 | 1027 | 40 7/16 |
| 400 SWING 50HP | 1120 | 44 1/8 | 440 | 17 ⁵ / ₁₆ | 190 | 7 ¹⁵ / ₃₂ | 390 | 15 ³ /8 | 154.5 | 6 ³ / ₃₂ | 160 | 6 ⁵ / ₁₆ | 255 | 10 1/32 | 430 | 16 ¹⁵ / ₁₆ | 135 | 5 ⁵ / ₁₆ | 340 | 13 3/8 | 603 | 23 3/4 | 1027 | 40 7/16 |
| 400 SWING 60HP | 1120 | 44 1/8 | 440 | 17 ⁵ / ₁₆ | 196.5 | 7 3/4 | 390 | 15 3/8 | 154.5 | 6 ³ / ₃₂ | 160 | 6 ⁵ / ₁₆ | 255 | 10 1/32 | 430 | 16 ¹⁵ / ₁₆ | 135 | 5 ⁵ / ₁₆ | 340 | 13 3/8 | 603 | 23 3/4 | 1027 | 40 7/16 |
| 500 SWING | 1255 | 49 ¹ / ₂ | 590 | 231/4 | 116 | 4 ⁹ /16 | 438 | 17 ¹ /4 | 154.5 | 6 ³ / ₃₂ | 160 | 6 ⁵ / ₁₆ | 250 | 9 ²⁷ / ₃₂ | 545 | 21 ¹⁵ /32 | 285 | 117/32 | 480 | 18 ²⁹ / ₃₂ | 680 | 26 ³ / ₄ | 1200 | 471/4 |

Electric Thruster Accessories

Black Box Controller Adaptor

Lewmar's range of thruster controllers provides reliable control of single or dual thruster installations.

The controllers can be fitted to all LewmarTT thrusters fitted with a blue box and to the previous generationTT thrusters fitted with a black box using a controller converter.

- Upgrade kit allows the retrofit of the new generation controller with original black box systems
- Easy-fitting / Existing boat wiring can be used
- Needs to be installed next to the controller

| PART NUMBER | DESCRIPTION |
|-------------|-------------|
| 589865 | SINGLE PAD |
| 589864 | DUAL PAD |
| 589867 | SINGLE JOY |
| 589866 | DUAL JOY |



Gen 2 Thruster Accessories

Single/Dual Controller Connecting Leads and Splitter

- Simply measure the distance from the Thruster to the Panel to choose th suitable lead
- If you are installing a second or third panel, use a Y Connector to divert power back to the Thruster
- Y only to be used on like for like panels (Single with single / Dual with dual)

Cable Specifications Gen 2

| ı | Y LOOM MX | AUX LOOM MX | LENGTH |
|---|-----------|-------------|--------|
| | 589800 | 589801 | 2M |
| | | 589802 | 7М |
| | | 589803 | 10M |
| | | 589804 | 18M |
| ĺ | | 589805 | 22M |

589006 TI Fuse Holder

- Designed for ANL fuses
- Comes complete with a polycarbonate safety cover



589013 T2 Fuse Holder

- Higher specification fuse holder for ANL
- Allows for easy fuse replacement
- Cable is clamped independently, so a fuse can be changed without disturbing the cable



Automatic Battery Switch

- Compatible with 140TT 2.2kW and above
- Easy to install
- Installed close to the batteries, it will prevent power from reaching the Thruster until the Panel is activated
- Manual override to disable system

| PART NUMBER | DESCRIPTION |
|-------------|------------------|
| 589810 | GEN2 ABS 12V |
| 589830 | GEN2 ABS 24V |
| 58090023 | PROPORTIONAL ABS |

- Automatically activates power when Panel is operated



- Switch Box
 - Enables safe usage of a 24V Thruster on a 12V boat
- Enables safe usage of 48V Thruster on a 24V boat

| PART NUMBER | DESCRIPTION |
|-------------|-------------------|
| 589811 | GEN2 PS 24/12V |
| 589813 | GEN2 PS 48/24V |
| 559033 | GEN2 PS 12/24V HD |

- Additional batteries required
- For suitability, see selection chart on next page



Electric Tunnel Thruster Accessories and Spares

| Accessories a | es Selector | 110TT | 125 | 5TT | 140 | πT | | | | 18 | 5TT | | | | 250 | σTΤ | | 300TT | | |
|---------------------------|------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------------|--|----------------------------------|------------------------------|----------------------------------|----------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------|---------------------|----------------------|--------------------|----------------------|
| | | | | | | İ | I | o. | 0. | o. | 1 | 1 | 0. | o. | 0. | | | > | | |
| | | | 29000 | 29000 | P 2.0 | 59000 W 12 | P - 2. | P - 3.0 | P- 3. | P - 4.0 | P - 4. | P - 5.0 | . 5. | P - 6. | P - 6. | V 24V | / 24V | N 24\ | 590035 - 15 KW 48V | N 24\ |
| | DECCDIE | OTION | V 12V | PLE/g N 12\ | 12V | 2.0 K | 005 l | 014 12V | 015 24V | 12V | 1017 24V | 018 12V | 019 24V | 020 12V | 021 24V | o. KV | o. X | .8 K | 5 KW | 78 K |
| | DESCRIP | TION | SIMF 5 KV | SIMF S.o.5 | 1/590 KW | SIME | 3/590 KW |)/590 KW | 7/590 KW | 3/590 KW | 3/590017 KW 24V |)/590 KW | 1/590 KW | 2/590 KW | 3/590 KW | 8 - 47 | 22 - 8 | 4 - 10 | 35 - 1 | 3 - 10 |
| | | | 591101 SIMPLE /590000 1.5 KW 12V | 591251 SIMPLE/590002 2.0 KW 12V | 590101/590102 IP ; KW 12V | 591482 SIMPLE/590002 590004 IP - 2.0 KW 12V | 590003/590005 IP - 2.2 KW 12V | 590006/590014 IP - KW 12V | 590007/590015 IP - 3.0 KW 24V | 590008/590016 IP KW 12V | 590009/590017 IP - 4.0 KW 24V | 590010/590018 IP - KW 12V | 590011/590019 IP - 5.0 KW 24V | 590012/590020 IP - 6.0 KW 12V | 590013/590021 IP - 6.0 KW 24V | 590024 - 8.0 KW 24V | 590022 - 8.0 KW 24V | 590034 - 10.8 KW 24V | 2900 | 590033 - 10.8 KW 24V |
| | | | | | | | | r. | L) | 2 | - CJ | 2 | Ln . | J. | L) | | | 6, | | |
| | COMPOSITE | | • | • | • | • | • | | | | | | | | | | | | | |
| GEARBOX MATE- RIAL | BRONZE | | | | | | | | | | | | | | | • | | ٠ | • | |
| MAE | STAINLESS | | | | | | | | | | | | | | | | | | | · |
| | 589454 | | • | | | | | - | | | | | | | | | | | | |
| | 582010 | | | | | | | | | | | | | | | | | | | |
| | 589156 | | | | | | • | | | | | | | | | | | | | |
| GEARBOX | 583051 | | | | | | | | | | | | | | | | | | | |
| | 83052 | | | | | | | | | • | • | • | • | • | • | | | | | |
| | 589557 | | | | | | | | | | | | | | | ٠ | ٠ | | | |
| | 559775 | | | | | | | | | | | | | | | | | • | • | • |
| | 589007 | 130A | | | | | | | • | | | | | | | | | | | |
| | 589008 | 250A | | | | | | • | | | • | | • | | | | | | | |
| FUCE | 589009 | 325A | | | | | | | | | | | | | • | | | | | |
| FUSE | 589010 | 400A | | | | | | | | • | | • | | | | • | • | | • | |
| | 589011 | 500A | | | | | | | | | | | | • | | | | • | | • |
| | 589012 | 200A | • | | | • | • | | | | | | | | | | | | | |
| FUSE HOLDER | 589006 | T1 | • | | | • | • | • | • | | • | | | | • | | | | | |
| FUSE HOLDER | 589013 | T2 | • | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | 589223 | SINGLE PAD | | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | 589222 | DUAL PAD | | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| CONTROLLER | 589268 | SINGLE JOYSTICK | | | • | | • | • | ٠ | • | • | ٠ | • | • | ٠ | ٠ | ٠ | ٠ | • | ٠ |
| | 589267 | DUAL JOYSTICK | | | • | | • | • | • | • | • | • | • | • | • | • | • | | • | • |
| | 589094 | SIMPLE JOYSTICK | • | • | | • | | | | | | | | | | | | | | |
| POWER SWITCH | 559036 | 12V/24V | | | | | | | • | | • | | • | | • | • | • | | | |
| BOX | 559037 | 24V/48V | | | | | | | | | | | | | | | | | • | |
| | 559038 | 12V/24V H | | | | | | | | | | | | | • | | | • | | |
| SPARE ANODES | 589350 | 185TT ANODE 250/300TT ANODE | | | | | | | | | | | | | Ť | | | | | |
| | 589550 589451 | 110TT PROPELLER | | | | | | | | | | | | | | | - | - | - | - |
| | 589455 | 125TT PROPELLER | | | | | | | | | | | | | | | | | | |
| | 589151 | 140TT PROPELLER | | | | | | | | | | | | | | | | | | |
| 604.05 | 589351 | 185TT PROPELLER | | | | | | | | | | | | | | | | | | |
| SPARE PROPELLERS | 589551 | 250TT RH PROPELLER | | | | | | | | | | | | | | | | | | |
| | 589552 | 250TT LH PROPELLER | | | | | | | | | | | | | | | | | | |
| | 589751 | 300TT LH PROPELLER | | | | | | | | | | | | | | | | • | • | • |
| | 589750 | 300TT RH PROPELLER | | | | | | | | | | | | | | | | | | |
| | 559107 | 110TT DRIVE PIN | | | | | | | | | | | | | | | | | | |
| SPARE | 559018 | 125TT DRIVE PIN | | | | | | | | | | | | | | | | | | |
| DRIVE PINS | 559018 | 140TT DRIVE PIN | | | | | • | | | | | | | | | | | | | |
| | 559017A | 185TT DRIVE PIN | | | | | | | | | | | | | | | | | | |
| | 589096 | 125TT SUPPORT BKT | | • | • | • | • | | | | | | | | | | | | | |
| SPARE MOTOR | 589096 | 140TT SUPPORT BKT | | | | | | | | | | | | | | | | | | |
| SUPPORT | 589064 | 185TT SUPPORT BKT | | | | | | • | • | • | ٠ | • | • | • | • | | | | | |
| BRACKETS | 589066 | 250TT SUPPORT BKT | | | | | | | | | | | | | | • | • | | | |
| | 589065 | 300TT SUPPORT BKT | | | | | | | | | | | | | | | | • | • | • |
| | B15279 | 2.0/2.2KW 12VBRUSH KIT | | • | • | • | • | | | | | | | | | | | | | |
| | B15282 | 3.0/4.0KW 12V BRUSH KIT | | | | | | • | | • | | | | | | | | | | |
| DEDI ASSISSI | B15283 | 3.0/4.0KW 24V BRUSH KIT | | | | | | | ٠ | | ٠ | | | | | | | | | |
| REPLACEMENT BRUSH KITS | B17198 | 5.0 / 6.0KW 12V/ 24V BRUSH KIT | | | | | | | | | | • | • | • | ٠ | | | | | |
| | B15284 | 8.0KW 24V BRUSH KIT | | | | | | | | | | | | | | ٠ | ٠ | | | |
| | В13336 | 10.8KW 24V BRUSH KIT | | | | | | | | | | | | | | | | • | | • |
| | B12373 | 15.0KW 48V BRUSH KIT | | | | | | | | | | | | | | | | | • | |

Thruster Accessories and Spares

Thruster Tunnels

- Range of high-quality filament-wound GRP tunnels
- Manufactured to Lewmar specifications

- · Available in a variety of cut lengths
- Limited range of steel tubes available

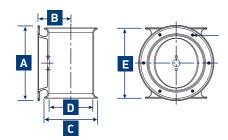
| TUNNEL | LENGTH | GRP Ø110mm | GRP Ø125mm | GRP Ø140mm | GRP Ø185mm | STEEL Ø185mm | GRP Ø250mm | GRP Ø300mm |
|--------|--------|------------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------|
| СМ | FT | (4 1/3") | (5") | (5 ¹ / ₂ ") | (7 ² / ₇ ") | (7 ² / ₇ ") | (9 ⁵ / ₆ ") | (11 ⁴ /5") |
| 60 | 1'12" | 589401 | | | | | | |
| 75 | 2' 6" | 589402 | 589410 | 589101 | 589300 | | | |
| 100 | 3' 3" | 589403 | 589411 | 589102 | 589301 | 589321 | 589501 | 589700 |
| 150 | 4' 11" | | 589412 | 589103 | 589302 | 589321 | 589502 | 589701 |
| 200 | 6' 7" | | | | 589303 | | 589503 | 589702 |
| 300 | 9' 10" | | | | | | | 589703 |



Stern Kits

To gain total control of your boat, install both a bow and stern thruster, leaving the main engines to propel the boat forward and backward.

- Sturdy stern kits manufactured from durable GRP
- Available to match LewmarThrusters, from 140TT to 300TT





| | | / | 4 | E | 3 | | | 1 | | E | 3 | NO OF FIX- | FIXINGS | FIXIN | G PCD |
|------------|----------|-----|---------|-----|--------------------------------|-----|---------------------------------|-----|---------------------------------|-----|---------------------------------|------------|---------|-------|---------------------------------|
| KIT NUMBER | THRUSTER | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | INGS | ММ | ММ | IN |
| 589110 | 140TT | 240 | 9 7/16 | 105 | 4 1/8 | 170 | 6 ¹¹ / ₁₆ | 140 | 5 ¹ / ₂ | 225 | 8 ⁷ / ₈ | 6 | м8 | 206 | 8 ¹ / ₈ |
| 589310 | 185TT | 290 | 11 7/16 | 130 | 5 ¹ / ₈ | 235 | g ¹ / ₄ | 185 | 7 ⁵ / ₁₆ | 320 | 12 5/8 | 6 | M10 | 251 | 9 ⁷ /8 |
| 589510 | 250TT | 350 | 13 3/4 | 175 | 6 ⁷ / ₈ | 310 | 12 3/16 | 250 | 9 ¹³ / ₁₆ | 380 | 14 15/16 | 6 | M10 | 312 | 12 ⁵ / ₁₆ |
| 589710 | 300TT | 384 | 15 1/8 | 215 | 8 ⁷ / ₁₆ | 375 | 14 3/4 | 300 | 11 13/16 | 420 | 16 ⁹ / ₁₆ | 8 | M12 | 334 | 13 1/8 |

Recommended Spares

| | 140TT | 185TT | 250TT/300TT |
|--------|----------|----------|-------------|
| ANODES | 589150 | 589350 | 589550 |
| | RT140 | RT185 | RT250 |
| ANODES | 56110026 | 56110027 | 56110028 |

| | 110TT | 125TT | 140TT | 185TT |
|------------|----------|----------|----------|---------|
| DRIVE PINS | 559107 | 559018 | 559018 | 559017A |
| | | | | l |
| | RT140 | RT185 | RT250 | |
| DRIVE PINS | 56110032 | 56110033 | 56110034 | |

| | 140TT | 125TT | 185TT | 250TT | 300TT |
|------------------|--------|--------|--------|--------|--------|
| SUPPORT BRACKETS | 589096 | 589096 | 589064 | 589066 | 589065 |

| | 110TT | 125TT | 140TT/RT | 185TT/RT | 250TT/RT LH | 250TT/RT RH | 300TT LH | 300TT RH |
|------------|--------|--------|----------|----------|-------------|-------------|----------|----------|
| PROPELLERS | 589451 | 589455 | 589151 | 589351 | 589552 | 589551 | 589751 | 589750 |

Anode Kit



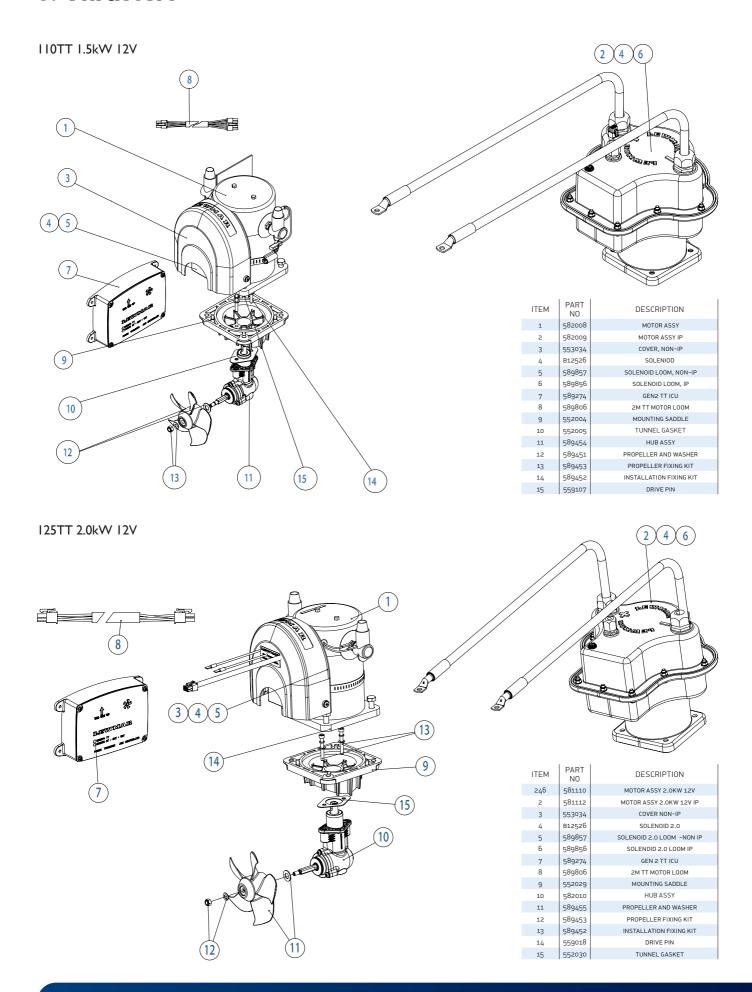
Propellers



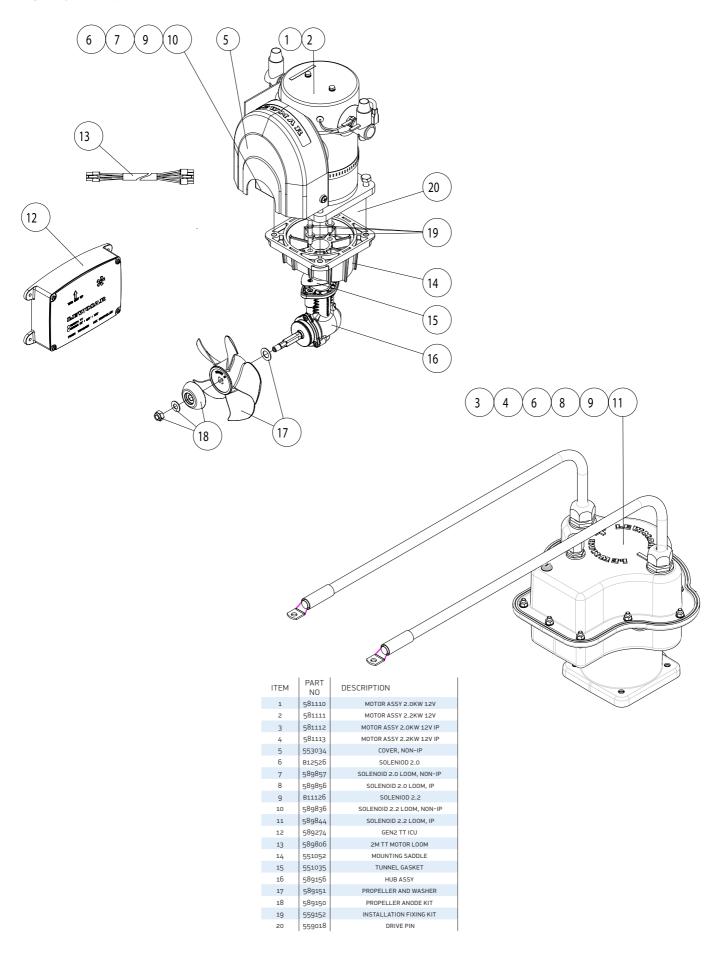
Electric Retractable Thruster Accessories and Spares

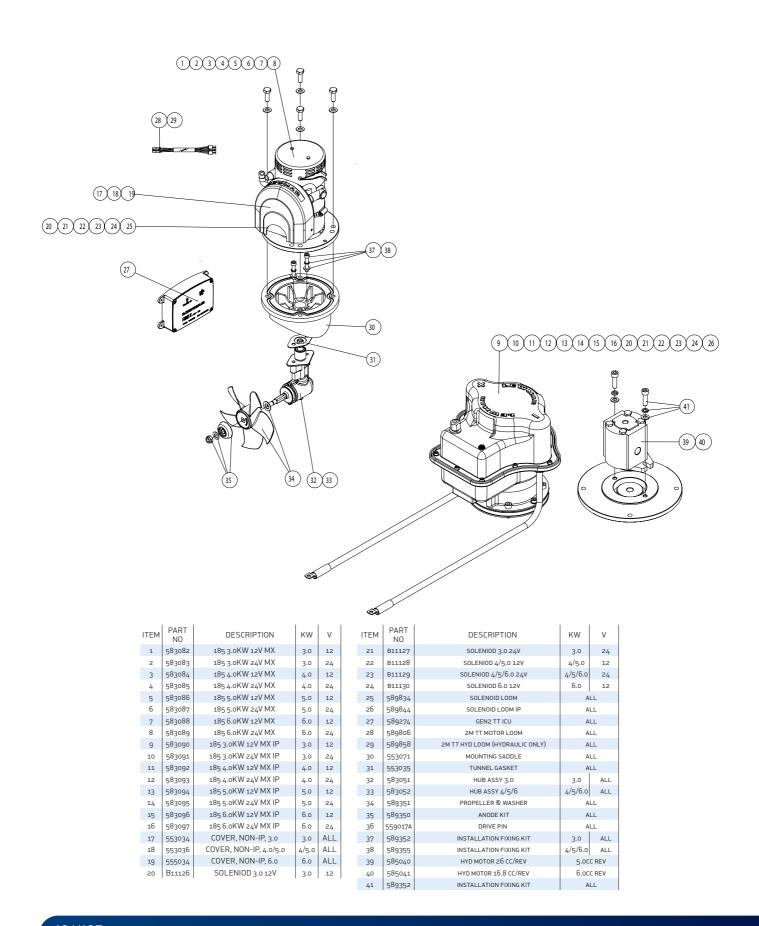
Accessories and Spares Selector

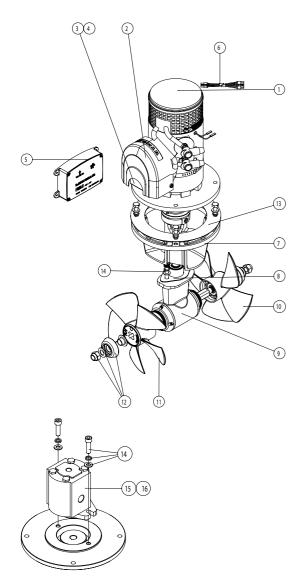
| | | RT | 140 | | | | | RT185 | | | | | RT: | 250 |
|----------------------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|---|----------------------------------|--------------------------|-----------------------|
| Di | ESCRIPTION | 59111001/59111003 IP - 2.0 KW 12V | 59111002/59111004 IP - 2.2 KW 12V | 59112004/59112019 IP - 4.0 KW 12V | 59112005/59112020 IP - 4.0 KW 12/24V | 59112006/59112021 IP - 4.0 KW 24V | 59112007/59112022 IP - 5.0 KW 12V | 59112008/59112023 IP - 5.0 KW 12/24V | 59112009/59112024 IP - 5.0 KW 24V | 59112010/59112025 IP - 6.0 KW 12V | 59112011/59112026 IP - 6.0 KW 12/24V | 59112012/59112027 IP - 6.0KW 24V | 59113001 - 8.0 KW 12/24V | 59113002 - 8.0 KW 24V |
| | 589007 130A | | | | • | • | | • | • | | | | | |
| | 589008 250A | | | | | | | | | | | | | |
| FUSE | 589009 325A | | | | | | | | | | • | • | | |
| FUSE | 589010 400A | | | • | | | • | | | | | | • | • |
| | 589011 500A | | | | | | | | | • | | | | |
| | 589012 200A | | • | | | | | | | | | | | |
| FUCE HOLDED | 589006 T1 | • | • | | | • | | | • | | | • | | |
| FUSE HOLDER | 589013 T2 | | • | • | • | • | • | • | • | • | • | • | • | • |
| | 589223 SINGLE PAD | • | • | • | • | • | • | • | • | • | • | • | • | • |
| CONTROLLER | 589222 DUAL PAD | | • | • | | • | • | • | • | • | • | • | • | • |
| CONTROLLER | 589268 SINGLE JOYSTICK | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | 589267 DUAL JOYSTICK | | • | • | | • | • | | • | • | | • | • | • |
| | 56110026 RT 140 ANODE KIT | • | • | | | | | | | | | | | |
| SPARE ANODES | 56110027 RT 185 ANODE KIT | | | • | | • | • | • | • | • | | | | |
| | 56110028 RT 250 ANODE KIT | | | | | | | | | | | • | • | • |
| | 589151 140TT PROPELLER | • | • | | | | | | | | | | | |
| CDARE BRODELLERS | 589351 185TT PROPELLER | | | • | • | ٠ | ٠ | • | ٠ | • | • | • | | |
| SPARE PROPELLERS | 589551 250TT RH PROPELLER | | | | | | | | | | | | • | • |
| | 589552 250TT LH PROPELLER | | | | | | | | | | | | • | • |
| | 56110032 RT 140 SHEAR PIN KIT | | • | | | | | | | | | | | |
| SHEAR PIN KITS | 56110033 RT 185 SHEAR PIN KIT | | | • | • | • | ٠ | • | • | • | • | • | | |
| | 56110034 RT 250 PIN @ DRIVE KEY | , | | | | | | | | | | | • | • |
| | 56110010 RT 140 BKT ® TUNNEL | • | • | | | | | | | | | | | |
| TUNNEL AND BRACKET KITS | 56110011 RT 185 BKT ® TUNNEL | | | • | | • | • | | • | • | | • | | |
| BRACKETRITS | 56110012 RT 250 BKT ® TUNNEL | | | | | | | | | | | | • | • |
| | 56110001 RT 140 SHAFT KIT | | • | | | | | | | | | | | |
| DRIVE SHAFT KIT | 56110002 RT 185 SHAFT KIT | | | • | • | • | • | • | • | • | • | • | | |
| | 56110003 RT 250 SHAFT KIT | | | | | | | | | | | | • | • |
| | 56110004 RT 140 GBOX | • | • | | | | | | | | | | | |
| GEARBOX | 56110005 RT 185 GBOX | | | • | | • | • | | • | • | | • | | |
| | 56110006 RT 250 GBOX | | | | | | | | | | | | • | • |
| | 56110007 RT 140 KIT | | • | | | | | | | | | | | |
| CAM MECH & LINK | 56110008 RT 185 KIT | | | • | • | • | ٠ | • | • | ٠ | | • | | |
| | 56110009 RT 250 KIT | | | | | | | | | | | | | |
| | 56110019 RT 140/185 SWITCH KIT | | • | • | • | • | • | • | • | • | | • | | |
| MICROSWITCH | 56110020 RT 250 SWITCH KIT | | | | | | | | | | | | | |
| | L. | | | | | | | | | | | | | |



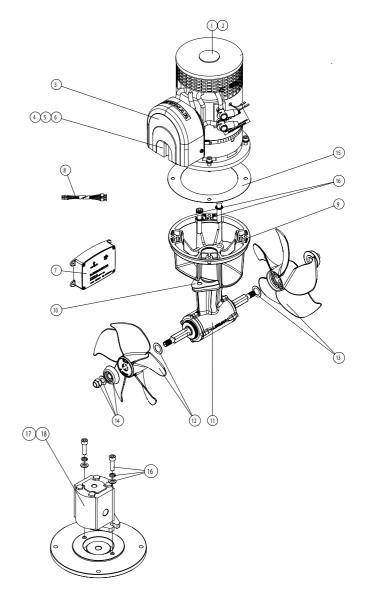
140TT 2.2kW 12V



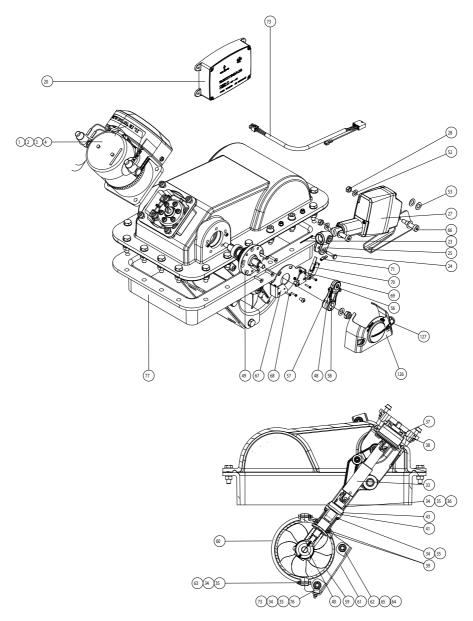




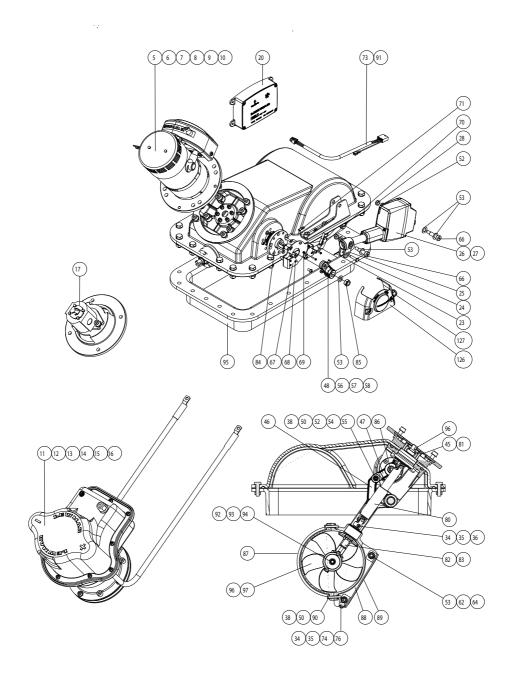
| ITEM | PART NO | DESCRIPTION |
|------|------------|---------------------------------|
| 1 | 585029 | MOTOR ASSY 8.0KW 24V |
| 2 | 553036 | COVER, NON-IP |
| 3 | B11129 | SOLENIOD 8.0 |
| 4 | 589834 | SOLENOID LOOM |
| 5 | 589834 | GEN2 TT ICU |
| 6 | 589806 | 2M TT MOTOR LOOM |
| О | 589858 | 2M TT HYD LOOM (HYDRAULIC ONLY) |
| 7 | 555025 | MOUNTING SADDLE |
| 8 | 555035 | TUNNEL GASKET |
| 9 | 589557 | HUB ASSY |
| 10 | 589551 | RIGHT HAND PROPELLER ® WASHER |
| 11 | 589552 | LEFT HAND PROPELLER ® WASHER |
| 12 | 589150 | ANODE KIT |
| 13 | 555038 | PLASTIC WASHER |
| 14 | 559152 | INSTALLATION FIXING KIT |
| 15 | 585040 | HYD MOTOR 26 CC/REV |
| 16 | 585041 | HYD MOTOR 16.8 CC/REV |



| ITEM | PART NO | DESCRIPTION |
|------|------------|---------------------------------|
| 1 | 587032 | MOTOR ASSY 10.8KW 24V |
| 2 | 557030 | MOTOR ASSY 15KW 48V |
| 3 | 555034 | COVER, NON-IP |
| 4 | B8429 | SOLENIOD 10.8KW |
| 5 | B11762 | SOLENIOD 15KW |
| 6 | 589834 | SOLENOID LOOM |
| 7 | 589274 | GEN2 TT ICU |
| 8 | 589806 | 2M TT MOTOR LOOM |
| 0 | 589858 | 2M TT HYD LOOM (HYDRAULIC ONLY) |
| 9 | 557025 | MOUNTING SADDLE |
| 10 | 557035 | TUNNEL GASKET |
| 11 | 559755 | HUB ASSY |
| 12 | 589750 | RIGHT HAND PROPELLER ® WASHER |
| 13 | 589751 | LEFT HAND PROPELLER ® WASHER |
| 14 | 589150 | ANODE KIT |
| 15 | 555038 | PLASTIC WASHER |
| 16 | 589752 | INSTALLATION FIXING KIT |
| 17 | 585040 | HYD MOTOR 26 CC/REV |
| 18 | 585041 | HYD MOTOR 16.8 CC/REV |

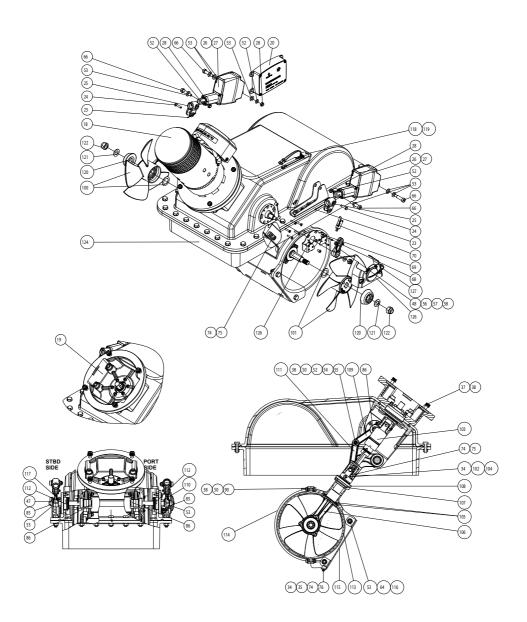


| PART NO. | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|---|--|
| 581111 | 140 2.0 KW 12V | 1(1) |
| 581112 | 140 2.2 KW 12V | 2(1) |
| 581113 | 140 2.0 KW 12V IP | 3(1) |
| 581114 | 140 2.2 KW 12V IP | 4(1) |
| 589151 | 140 PROPELLOR | 29(1) |
| 589157 | 140 THRUSTER PROP FIXING KIT | 30(1), 31(1), 32(1) |
| 589296 | RT GEN₂ I.C.U. ASSY | 20(1) |
| 589808 | GEN2 RT MOTOR LOOM 2M | 21(1) |
| 589809 | GEN ₂ RT MOTOR LOOM ₅ M | 22(1) |
| 56110001 | RT 140 DRIVE SHAFT KIT | 33(1), 34(1), 35(1), 36(1) , 37(6), 38(6) |
| 56110004 | RT 140 GEARBOX | 34(4), 35(8), 39(1), 40(1) , 42(4), 43(2), 44(1) , 45(1) |
| 56110007 | RT 140 CAM MECH WITH LINK | 38(2), 46(1), 47(1), 48(1), 49(1), 50(2), 51(2), 52(1), 53(2), 54(3), 55(2), 56(1), 57(2), 58(2) |
| 56110010 | RT 140 TUNNEL ASSY WITH BRACKET | 34(6), 35(6), 59(1), 60(1), 61(1), 62(4), 63(6), 64(4), 65(8) |
| 56110013 | RT ACTUATOR SHEAR PIN KIT | 23(1), 24(1) |
| 56110014 | RT 140 ACTUATOR 12V KIT | 23(1), 24(1), 25(1), 27(1), 28(2), 52(2), 53(4), 66(2) |
| 56110019 | RT 140 / 185 MICRO SWITCH ASSY | 66(1), 67(2), 68(2), 69(2), 70(1), 71(2) |
| 56110021 | RT MICRO SWITCH COVER | 126(1), 127(1) |
| 56110022 | RT 140 / 185 WIRE LOOM | 73(1) |
| 56110026 | RT 140 ANODE KIT | 34(2), 35(2), 74(3), 75(4), 76(2) |
| 56110029 | RT 140 LOWER FLANGE | 77(1) |
| 56110032 | RT 140 SHEAR PIN KIT | 23(1), 24(1), 34(1), 35(1), 36(1), 44(2) |



| PART NO. | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|------------------------|--|
| 583041 | 185 HYD MOTOR | 17(1) |
| 583084 | 185 4.0KW 12V MX | 5(1) |
| 583085 | 185 4.0KW 24V MX | 6(1) |
| 583086 | 185 5.0KW 12V MX | 7(1) |
| 583087 | 185 5.0KW 24V MX | 8(1) |
| 583088 | 185 6.0KW 12V MX | 9(1) |
| 583089 | 185 6.0KW 24V MX | 10(1) |
| 583092 | 185 4.0KW 12V MX IP | 11(1) |
| 583093 | 185 4.0KW 24V MX IP | 12(1) |
| 583094 | 185 5.0KW 12V MX IP | 13(1) |
| 583095 | 185 5.0KW 24V MX IP | 14(1) |
| 583096 | 185 6.0KW 12V MX IP | 15(1) |
| 583097 | 185 6.0KW 24V MX IP | 16(1) |
| 589351 | 185 PROPELLOR | 96(1), 97(1) |
| 589296 | RT GEN2 I.C.U. ASSY | 20(1) |
| 589808 | GEN2 RT MOTOR LOOM 2M | 21(1) |
| 589809 | GEN2 RT MOTOR LOOM 5M | 22(1) |
| 56110002 | RT 185 DRIVE SHAFT KIT | 34(1), 35(1), 36(1), 45(6), 80(1), 81(6) |

| PART NO. | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|---------------------------------|--|
| 56110005 | RT 185 GEARBOX | 82(1), 83(2) |
| 56110008 | RT 185 CAM MECH WITH LINK | 46(1), 47(1), 48(1), 50(2), 52(1), 53(1), 54(3), 55(2), 56(1), 57(2), 58(2), 84(1), 85(1), 86(1) |
| 56110011 | RT 185 TUNNEL ASSY WITH BRACKET | 38(12), 50(6), 53(8), 62(4), 64(4), 87(1), 88(1), 89(1), 90(1) |
| 56110013 | RT ACTUATOR SHEAR PIN KIT | 23(1), 24(1) |
| 56110014 | RT ACTUATOR 12V KIT | 23(1), 24(1), 25(1), 27(1), 28(2), 52(2), 53(4), 66(2) |
| 56110015 | RT ACTUATOR 24V KIT | 23(1), 24(1), 25(1), 26(1), 28(2), 52(2), 53(4), 66(2) |
| 56110019 | RT 140 / 185 MICRO SWITCH ASSY | 66(1), 67(2), 68(2), 69(2), 70(1), 71(2) |
| 56110021 | RT MICRO SWITCH COVER | 126(1), 127(1) |
| 56110022 | RT 140 / 185 WIRE LOOM | 73(1) |
| 56110023 | RT 140 / 185 HYD WIRE LOOM | 91(1) |
| 56110027 | RT 185 ANODE KIT | 34(2), 35(2), 74(3), 75(4), 76(2), 92(2), 93(2), 94(2) |
| 56110030 | RT 185 LOWER FLANGE | 95(1) |
| 56110029 | RT 185 SHEAR PIN KIT | 23(1), 24(1), 36(1), 34(1), 35(1), 96(2) |



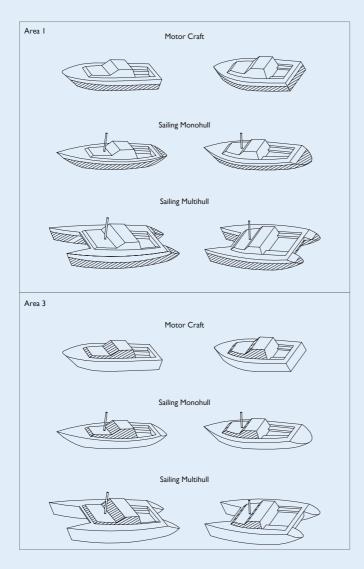
| PART NO. | DESCRIPTION | ITEMS INCLUDED (QTY) |
|----------|----------------------------------|--|
| 585029 | 250 8.0KW 24V MOTOR ASSY MX | 18(1) |
| 585041 | 250 HYD MOTOR ASSY | 19(1) |
| 589296 | RT GEN2 I.C.U. ASSY | 20(1) |
| 589551 | 250 STBD PROPELLOR + WASHER | 100(1) |
| 589552 | 250 PORT PROPELLOR + WASHER | 101(1) |
| 589808 | GEN2 RT MOTOR LOOM 2M | 21(1) |
| 589809 | GEN2 RT MOTOR LOOM 5M | 22(1) |
| 56110003 | RT 250 DRIVE SHAFT KIT | 23(2), 34(1), 37(6), 38(6), 102(1), 103(1), 104(1), 125(2) |
| 56110006 | RT 250 GEARBOX | 105(2), 106(1), 107(1), 108(5) |
| 56110009 | RT 250 CAM MECH WITH LINK PORT | 38(2), 47(1), 50(2), 52(1), 53(1), 54(3), 55(2), 56(1), 57(2), 58(2), 85(1), 86(1), 109(1), 110(1), 111(1), 112(1) |
| 56110012 | RT 250 TUNNEL ASSY WITH BRACKET | 38(16), 50(8), 53(8), 64(4), 90(8), 113(1), 114(1), 115(1), 116(1) |
| 56110013 | RT ACTUATOR SHEAR PIN KIT | 23(1), 24(1) |
| 56110016 | RT 250 ACTUATOR 12V KIT | 23(1), 24(1), 25(1), 27(1), 28(2), 52(2), 53(4), 66(2) |
| 56110017 | RT 250 CAM MECH WITH LINK STBD | 38(2), 47(1), 50(2), 52(1), 53(1), 54(3), 55(2), 56(1), 85(1), 86(1), 109(1), 111(1), 112(1), 117(1) |
| 56110018 | RT 250 ACTUATOR 24V KIT | 23(1), 24(1), 25(1), 26(1), 28(2), 52(2), 53(4), 66(2) |
| 56110020 | RT 250 MICRO SWITCH ASSY | 66(2), 68(4), 69(4), 70(2) 71(1), 126(1) |
| 56110021 | RT MICRO SWITCH COVER | 126(1), 127(1) |
| 56110024 | RT 250 WIRE LOOM | 118(1) |
| 56110025 | RT 250 HYD WIRE LOOM | 119(1) |
| 56110028 | RT 250 ANODE KIT | 34(2), 35(2), 74(3), 75(4), 76(2), 120(2), 121(2), 123(2) |
| 56110031 | RT 250 LOWER FLANGE | 124(1) |
| 56110034 | RT 250 SHEAR PIN ® DRIVE KEY KIT | 23(3), 24(1), 34(1), 102(1), 104(1), 125(2) |

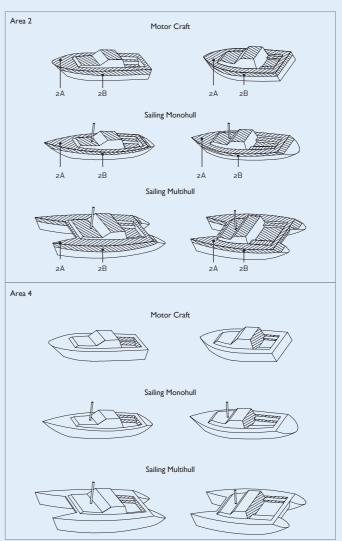


CE Regulations

The CE Regulations apply to craft up to 24m in length that are sold in the European Union. Although the Regulations may not apply to your boat, they are a useful guide for small craft throughout the world.

- The Regulations have Design Categories for boats based on their intended usage and propulsion (sail or power). Boats built to CE Regulations are fitted with a plate showing the Design Category.
- All Lewmar hatches and portlights are for Design Category A (Ocean Sailing) or Design Category B (Offshore Sailing).
- The Regulations divide up the hull and deck into four specific 'areas'. These are shown below.
- For craft with a freeboard greater than 1/12 of its overall length, the hull is split into Area 1 and Area 2B. Please refer to the Recreational Craft Directive 94/25/EC.
- A product that is suitable for fitting to an area for which it is approved is suitable for all the areas below its category. For example, a portlight that is approved for Area 2A may also be fitted to Areas 3 and 4, but not Areas 1 or 2B.
- All the hatches and portlights in this publication are CE Approved for the areas indicated on the product pages.
- Lewmar warranties are invalid if the product is installed in an area where it
 is not intended, and if the installation fails to meet the requirements of the
 CE Regulations.





Hatches

| DESCRIPTION | SIZES | CATEGORY | AREA |
|----------------|-------|----------|-----------|
| LOW PROFILE | ALL | А | 2A, 3 ® 4 |
| MEDIUM PROFILE | ALL | А | 2A, 3 ® 4 |
| OCEAN HATCH | ALL | А | 2A, 3 ® 4 |
| FLUSH HATCH | ALL | А | 2A, 3 ® 4 |
| PILOT HATCH | ALL | А | 3 & 4 |

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| DESCRIPTION | SIZES | CATEGORY | AREA | DESCRIPTION | SIZES | CATEGORY | AREA |
|-------------|---------------|----------|-------------|-------------|---------------|----------|---------------|
| STANDARD | ALL | Α | 2A, 3 ® 4 | STAINLESS | 0,1,1RE,7RE,8 | В | 1, 2, 3 ® 4 |
| ATLANTIC | 10, 30, 32 | А | 1, 2, 3 🛭 4 | STAINLESS | ROUND | А | 1, 2, 3 & 4 |
| ATLANTIC | 40,60 | А | 2A, 3 ® 4 | FLUSH MITRE | 0, 1, 3 & 4 | А | 2A, 2B, 3 ® 4 |
| STAINLESS | 0,1,1RE,7RE,8 | А | 2A, 3 ® 4 | | | | |

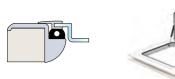
The Lewmar Hatch Range





















Flush Hatches

Page 134 Flush Hatch 2G

- Sleek, modern look
- Fits seamlessly into a specially designed recess in the deck
- Seal mounted on the acrylic
- Acrylic has band of paint to conceal deck & frame when installed
- Custom configuration available including stainless steel hinge, handle and stay.

Page 136 Flush Hatch 3G

- All the benefits of the flush hatch
- Lower frame mounted seal
- All external fittings flush to the acrylic

Page 140 Custom Flush Hatches

- Stainless Flush Hatch 2G
- Horizon Hatch Acrylic curved to match deck camber
- GRP Frame Hatch Bonded directly onto the deck

Framed Hatches

Page 143 Ultra-Low Profile Hatch

- 6mm above-deck height
- Easy to retrofit for flush aesthetic

Page 133 Low Profile Hatch

- Soft styling and sleek looks
- Does not require deck recess to install
- Available in Round and D-Hatch configuration

Page 146 Medium Profile Hatch

- Ideal as a foredeck hatch on larger offshore yachts
- Provides greater strength and durability
- Thicker acrylic and deeper frame sections
- Medium Profile styled to match Low Profile for mixed deck specifications

Page 148 Ocean Hatch

- Ultimate protection against the elements
- Classical styling and rugged construction
- Fitted to thousands of boats throughout the world
- 2 profiles available with or without flange

Page 150 Custom Hatches

- Stainless Hatch
- · Integral Privacy Blind
- Flybridge Hatch
- Pilot Hatch

- Powerboat Hatch
- Washboard Hatch
- Companionway Door
- Crew Door

Page 161 Hatch Spares and Accessories

- Flyscreens
- Spare acrylics

- Hinge spares
- Hatch Identification Guide



Flush Hatch 2G

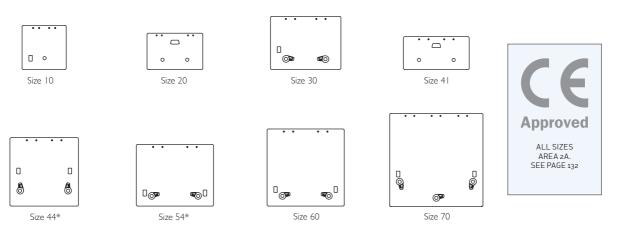
Lewmar pioneered the production flush hatch platform back in 2006, bringing superyacht styling into volume boat production. The precision of the fit makes for a sleek, modern look and means no more stubbed toes for boat owners.

- Clean aesthetics
- EPDM seal provide completely watertight structure
- Water drained effortlessly away by deck-moulded channels
- Strong, stylish handles and hinges
- Trimkit fit all standard sizes
- Dark grey acrylic option keeps cabin cooler

- Custom sizes available
- Available with stainless steel hatch furniture
- Full range of spare parts available on-line www.lewmar.com



Flush Hatch Standard Sizes



^{*} Minimum size for ISO 9094 escape hatches.

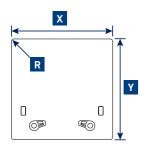


Flush Hatch 2G Standard Specifications

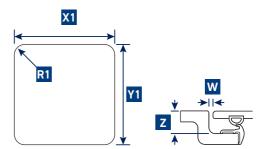
- White lower frame
- Black exterior moulding
- Grey Interior moulding
- Acrylic colours: Grey or Dark Grey
- Size 20 and 41 supplied with friction lever
- Other sizes use I or 2 stays

- Hatches should be fitted to a flat surface with a maximum tolerance of +/-I mm
- Cutout dimensions changes if a trim is used: Add 4mm to XI &YI and 2mm to RI.
- Fastening size: for lower frame section use
 5mm CSK screws No. 10 UNC 2BA
- Fastening size: at the hinge section use M6 (1/4")

Flush Hatch Dimensions



Flush Hatch Cut-outs



| | | | | A./ | | | | OVERAL | L DIME | NSIONS | | | | | | CUT | Γ-OUT D | IMENSIO | NS | | | | | |
|-----------------|----------|------|-----|-------------------|-----|-----------|-----|----------------------------------|--------|---------------------------------|-----|----------|---------|-----|-----|----------------------------------|---------|---------------------------------|------|---------|----------------------|------|-----|------|
| PART NO GREY | PART NO | | FRA | VER AME NGE | HII | NGE AP | | X DTH | | Y IGTH | DEF | Z PTH | F RA | _ | WII | 1 | Y | 1 | RA | .DII | ACR WINI THICK | DOW | WEI | GHT |
| ACRYLIC | ACRYLIC | SIZE | ММ | IN | ММ | IN | MM | IN | MM | IN | MM | IN | ММ | IN | MM | IN | MM | IN | MM | IN | ММ | IN | KG | LB |
| 39910012 | 39910812 | 10 | 15 | 9/16 | 11 | 11/64 | 330 | 13 | 330 | 13 | 31 | 1 1/4 | 10 | 3/8 | 260 | 10 1/4 | 260 | 10 1/4 | 42.5 | 1 11/16 | 12 | 1/2 | 2.3 | 5 |
| 39920012 | 39920812 | 20 | 15 | 9/16 | 11 | 11/64 | 417 | 16 ⁷ / ₁₆ | 272 | 10 11/16 | 31 | 1 1/4 | 10 | 3/8 | 347 | 13 11/16 | 202 | 7 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 12 | 1/2 | 2.4 | 5.3 |
| 39930012 | 39930812 | 30 | 15 | 9/16 | 11 | 11/64 | 527 | 20 3/4 | 397 | 15 ⁵ /8 | 31 | 1 1/4 | 10 | 3/8 | 457 | 18 | 327 | 12 7/8 | 42.5 | 1 11/16 | 12 | 1/2 | 4.7 | 10.3 |
| 39941012 | 39941812 | 41 | 15 | 9/16 | 11 | 11/64 | 491 | 19 ⁵ / ₁₆ | 246 | g ¹ / ₁₆ | 31 | 1 1/4 | 10 | 3/8 | 421 | 16 ⁹ / ₁₆ | 176 | 6 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 12 | 1/2 | 2.6 | 5.8 |
| 39944012 | 39944812 | 44 | 15 | 9/16 | 11 | 11/64 | 512 | 20 ³ / ₁₆ | 512 | 20 3/16 | 31 | 1 1/4 | 10 | 3/8 | 442 | 17 3/8 | 442 | 17 3/8 | 42.5 | 1 11/16 | 12 | 1/2 | 5.4 | 12 |
| 39954012 | 39954812 | 54 | 15 | 9/16 | 11 | 11/64 | 577 | 22 ¹¹ / ₁₆ | 462 | 18 ³ / ₁₆ | 31 | 1 1/4 | 10 | 3/8 | 507 | 19 ¹⁵ / ₁₆ | 392 | 15 7/16 | 42.5 | 1 11/16 | 12 | 1/2 | 5.5 | 12.1 |
| 39960012 | 39960812 | 60 | 15 | 9/16 | 11 | 11/64 | 577 | 22 11/16 | 577 | 22 11/16 | 31 | 1 1/4 | 10 | 3/8 | 507 | 19 15/16 | 507 | 19 15/16 | 42.5 | 1 11/16 | 15 | 9/16 | 7.1 | 16 |
| 39970012 | 39970812 | 70 | 15 | 9/16 | 11 | 11/64 | 697 | 27 1/2 | 697 | 27 1/2 | 31 | 1 1/4 | 10 | 3/8 | 627 | 24 11/16 | 627 | 24 11/16 | 42.5 | 1 11/16 | 15 | 9/16 | 11 | 24 |



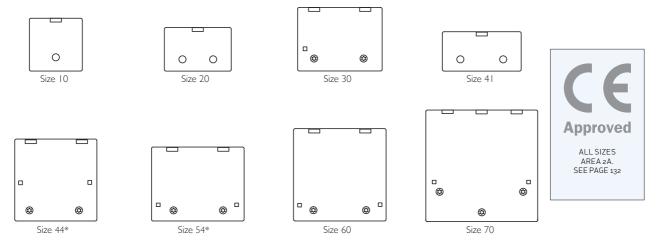
Flush Hatch 3G

With improved manufacturing techniques, the Flush Hatch 3G continues to push the envelope of hatch design and has quickly become a staple design element in many new yachts. A tough, tinted acrylic panel is all that can be seen on deck.

- Lower frame mounted seal
- Strengthened, extruded aluminium frame hidden discreetly below deck
- Completely flush fittings
- Exterior handle available for foredeck use
- Interchangeable with Flush Hatch 2G
- Built in locking mechanism

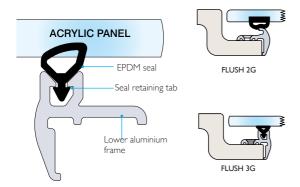


Flush 3G Hatch Standard Sizes

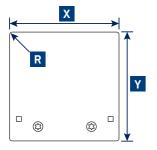


^{*} Minimum size for ISO 9094 escape hatches. Hatch must have external handle option for use in ISO 9094





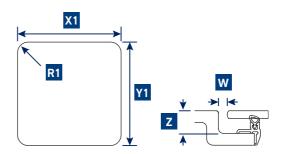
Flush Hatch 3G Dimensions



Flush Hatch 3G Standard Specifications

- White lower frame
- Black mouldings
- Acrylic colours grey or dark grey
- Size 10, 20 and 41 supplied with friction hinges and plain flush exterior handle caps.
- Size 30, 44, 54, 60 and 70 supplied with 1 or 2 stays and winch handle opening handles

Flush Hatch 3G Cut-outs



| | | | V | N/ | | | | OVERAL | L DIMEI | NSIONS | | | | | | CUT | -OUT D | IMENSIO | NS | | | | | |
|-----------------|----------------------|------|------------|------------------------------|-----|-----------|-----|---------------------------------|---------|---------------------------------|-----|-------|---------|-----|----------|----------------------------------|--------|---------------------------------|------|---------|---------------------|-----|-----|------|
| PART NO GREY | PART NO DARK GREY | | LOV FRA | VER | HII | NGE AP | | X DTH | LEN | Y IGTH | DEF | | F RA | _ | X WII | 1 | LEN | 1 | RA | DII | ACR WIN THICK | | WEI | GHT |
| ACRYLIC | ACRYLIC | SIZE | ММ | IN | MM | IN | MM | IN | MM | IN | MM | IN | ММ | IN | MM | IN | MM | IN | MM | IN | ММ | IN | KG | LB |
| 399104996 | 399104924 | 10 | 15 | 9/16 | 11 | 11/64 | 330 | 13 | 330 | 13 | 31 | 1 1/4 | 10 | 3/8 | 260 | 10 1/4 | 260 | 10 1/4 | 42.5 | 1 11/16 | 10 | 3/8 | 2.1 | 4.6 |
| 399204996 | 399204924 | 20 | 15 | ⁹ /16 | 11 | 11/64 | 417 | 16 ⁷ / ₁₆ | 272 | 10 11/16 | 31 | 1 1/4 | 10 | 3/8 | 347 | 13 11/16 | 202 | 7 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 10 | 3/8 | 2.2 | 4.8 |
| 399304995 | 399304923 | 30 | 15 | 9/16 | 11 | 11/64 | 527 | 20 3/4 | 397 | 15 ⁵ /8 | 31 | 1 1/4 | 10 | 3/8 | 457 | 18 | 327 | 12 7/8 | 42.5 | 1 11/16 | 10 | 3/8 | 3.9 | 8.6 |
| 399414996 | 399414924 | 41 | 15 | ⁹ /16 | 11 | 11/64 | 491 | 19 ⁵ /16 | 246 | 9 ¹ / ₁₆ | 31 | 1 1/4 | 10 | 3/8 | 421 | 16 ⁹ / ₁₆ | 176 | 6 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 10 | 3/8 | 2.3 | 5.0 |
| 399444995 | 399444923 | 44 | 15 | ⁹ / ₁₆ | 11 | 11/64 | 512 | 20 3/16 | 512 | 20 3/16 | 31 | 1 1/4 | 10 | 3/8 | 442 | 17 3/8 | 442 | 17 3/8 | 42.5 | 1 11/16 | 10 | 3/8 | 4.5 | 9.9 |
| 399544995 | 399544923 | 54 | 15 | ⁹ / ₁₆ | 11 | 11/64 | 577 | 22 11/16 | 462 | 18 ³ / ₁₆ | 31 | 1 1/4 | 10 | 3/8 | 507 | 19 ¹⁵ / ₁₆ | 392 | 15 7/16 | 42.5 | 1 11/16 | 10 | 3/8 | 4.6 | 10.1 |
| 399604995 | 399604923 | 60 | 15 | 9/16 | 11 | 11/64 | 577 | 22 11/16 | 577 | 22 11/16 | 31 | 1 1/4 | 10 | 3/8 | 507 | 19 15/16 | 507 | 19 15/16 | 42.5 | 1 11/16 | 12 | 1/2 | 6.2 | 13.7 |
| 399704995 | 399704923 | 70 | 15 | ⁹ /16 | 11 | 11/64 | 697 | 27 1/2 | 697 | 27 1/2 | 31 | 1 1/4 | 10 | 3/8 | 627 | 24 11/16 | 627 | 24 11/16 | 42.5 | 1 11/16 | 12 | 1/2 | 9.0 | 19.8 |

PLEASE NOTE WINCH HANDLE OPENING DOES NOT MEET THE REQUIREMENTS OF DESIGNATED FIRE EXITS IN THE DRAFT FOR THE NEW VERSION OF ISOg094



Flush Hatch 2G with Stainless Steel furniture

At Lewmar, we are constantly seeking to improve our product range to suit evolving design trends. The new range of stainless steel hatch fittings are designed for the Flush Hatch Range, offering a stylish interior and exterior aesthetic.

- Hatch can be opened from the outside using a standard winch handle
- Locking mechanism contained in interior handle
- Effortless operation
- Closer fit to the deck along the hinge edge
- All the features of the Flush Hatch Range
- White aluminium lower frame
- Stainless Steel handles, hinges and stay
- Grey or Dark Grey Acrylic









| | | | | | | | OV | ERALL D | IMENSIC | INS | | | | CU. | T-OUT D | IMENSIO | NS | | | |
|--------------|----------------------|------|-------------------|------------------------------|-----|----------|-----|-----------|---------|----------|----|------|-----|----------|----------|----------------------------------|---------|---------|-----------------------|------------------------------|
| PART NO | PART NO DARK GREY | | LOV FRA FLA | | WII | X DTH | LEN | Y IGTH | DE | Z PTH | RA | .DII | WII | 1 | Y LEN | 1 | R RA | | ACR' WINI THICK | DOW |
| GREY ACRYLIC | ACRYLIC | SIZE | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | MM | IN | ММ | IN |
| 399441999 | 399441910 | 44 | 15 | 9/16 | 512 | 20 3/16 | 512 | 20 3/16 | 31 | 1 1/4 | 10 | 3/8 | 442 | 17 3/8 | 442 | 17 3/8 | 42.5 | 1 11/16 | 12 | 1/2 |
| 399601999 | 399601910 | 60 | 15 | ⁹ / ₁₆ | 577 | 22 11/16 | 577 | 22 11/16 | 31 | 1 1/4 | 10 | 3/8 | 507 | 19 15/16 | 507 | 19 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 15 | ⁹ / ₁₆ |
| 399701999 | 399701910 | 70 | 15 | ⁹ / ₁₆ | 697 | 27 1/2 | 697 | 27 1/2 | 31 | 1 1/4 | 10 | 3/8 | 627 | 24 11/16 | 627 | 24 11/16 | 42.5 | 1 11/16 | 15 | ⁹ / ₁₆ |

PLEASE NOTE WINCH HANDLE OPENING DOES NOT MEET THE REQUIREMENTS OF DESIGNATED FIRE EXITS IN THE DRAFT FOR THE NEW VERSION OF ISO9094



Custom Sized Flush Hatches

Lewmar manufacture custom size hatches in high volume for many boat builders.

The table below list the most common sizes. Please note that trimkits are not available on custom size hatches.

Standard Specifications

- Silver lower frame
- Grey exterior moulding
- Grey Interior moulding
- · Grey Acrylic

White Specifications

- White lower frame
- Black exterior moulding
- Grey Interior moulding
- Grey Acrylic

| | | V | A./ | | | | 0 | VERALL | DIMENSI | ONS | | ı | | | CU ⁻ | Γ-OUT D | IMENSIO | NS | | ı | |
|----------|---------------|----|------------|-----|-----------|-----|--------|--------|----------------------------------|-----|----------|----|----------|----------|-----------------|----------|----------------------------------|------|---------|-----------------------|-----|
| PART | | _ | VER AME | 1IH | NGE AP | WIE | | | Y IGTH | DEF | Z PTH | RA | R DII | X WIE | | Y LEN | 1 GTH | RA | _ | ACR' WINI THICK | DOW |
| NUMBER | SPECIFICATION | мм | IN | мм | IN | ММ | IN | ММ | IN | ММ | IN | мм | IN | мм | IN | ММ | IN | ММ | IN | мм | IN |
| 30190400 | STANDARD | 15 | 9/16 | 11 | 11/64 | 575 | 22 5/8 | 284 | 11 3/16 | 31 | 1 1/4 | 10 | 3/8 | 505 | 19 7/8 | 214 | 8 ⁷ / ₁₆ | 42.5 | 1 11/16 | 12 | 1/2 |
| 30190500 | STANDARD | 15 | 9/16 | 11 | 11/64 | 575 | 22 5/8 | 551 | 21 11/16 | 31 | 1 1/4 | 10 | 3/8 | 505 | 19 7/8 | 481 | 18 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 12 | 1/2 |
| 30190600 | STANDARD | 15 | 9/16 | 11 | 11/64 | 575 | 22 5/8 | 773 | 30 7/16 | 31 | 1 1/4 | 10 | 3/8 | 505 | 19 7/8 | 703 | 27 11/16 | 42.5 | 1 11/16 | 12 | 1/2 |
| 30195400 | STANDARD | 15 | 9/16 | 11 | 11/64 | 330 | 13 | 329 | 12 ¹⁵ / ₁₆ | 31 | 1 1/4 | 10 | 3/8 | 260 | 10 1/4 | 259 | 10 3/16 | 42.5 | 1 11/16 | 12 | 1/2 |
| 30193500 | WHITE | 15 | 9/16 | 11 | 11/64 | 210 | 8 1/4 | 400 | 15 3/4 | 31 | 1 1/4 | 10 | 3/8 | 140 | 5 1/2 | 330 | 13 | 42.5 | 1 11/16 | 12 | 1/2 |

Custom Flush Hatch Design Options

Custom Radius Corners

As a further styling aid, Lewmar can manufacture flush hatches with custom radii on the corners.



Bent Flush

Lewmar has the capability to bend the framework and acrylic panel to match coachroof curvatures.



Chamfered Acrylic Edges

The edges of flush hatch acrylics can be chamfered. This achieves a flush look when the deck recess cannot be made to exact specification.



Alloy Lid

Lewmar can supply flush hatches with a plain aluminium panel in place of the acrylic. Teak, or other deck finishes, can then be applied over the top and appropriate handles fitted.



White Acrylic

Opaque white acrylic can be specified. This is particularly useful on heads' ventilation hatches, deck lockers or where privacy is a prime concern.





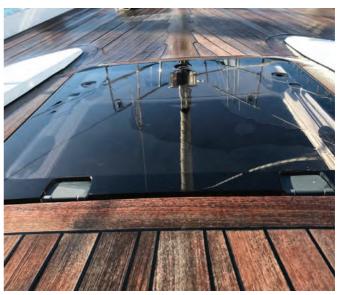
Horizon Hatch

The Horizon Hatch has a lid that is curved to match the camber of the deck. This results in a cleaner aesthetic, especially on sailing boat decks where it is often more difficult to use a conventional flat hatch. Innovative design ensures that sealing and watertight integrity are not compromised.

Horizon Hatches are customised to individual yacht designs. Please contact your Lewmar representative at an early stage in the design process to discuss your requirements.

- Machined and polished acrylic to match cambered decks
- Acrylic mounted seal
- Strong, flat aluminium frame
- Completely flush exterior fittings
- Exterior handle available for foredeck use
- Built-in locking mechanism







GRP Frame Hatch

Lewmar's premium flush composite hatch offers a flexible solution with sizing to match OEM requirements, providing an ultimate flush finish from the outside and sleek smooth finish from the inside.

The frame is bonded into the deck structure during the boat building process.

- Fitted with stainless steel handles and gas-strut supports
- Concealed heavy duty stainless steel hinges for a durable sturdy hatch that closes flush while allowing the acrylic to have sharper angles allowing a tighter fit with the deck aperture
- Lower frame made of GRP (glass-reinforced plastic) can be bonded into the boat to achieve a fully flush effect
- Lower frame configured to accept customer's preferred drainage positions
- Acrylic, Cambered acrylic or Glass lid options available.





Ultra-Low Profile Hatch

Following trends towards flush, clean lines, Lewmar have developed a robust, elegant, ultra-slim hatch to minimise impact on deck aesthetics while following the design principles of the proven low profile system.

Conceived as a product for boat builders and owners, the Ultra-low Profile Hatch can be incorporated into new designs with ease while also offering a retrofit solution in current Lewmar installations. As the perfect blend of utility and elegance, the design uses multiple seal profiles to guarantee compression and excellent water-shedding capability.

The Ultra-low Profile Hatch is a revolutionary approach to framed hatch design, supplying strength, beauty and safety.





Low Profile Hatch

Size 44*

The Low Profile Hatch has soft styling and sleek looks, ideal for use on a powerboat. Smaller ventilation hatches are suitable for any deck location on sailboats, while the larger sizes can be used as foredeck hatches on smaller to mid size yachts.

- Outside handles allow the hatch to be opened from on deck if it is not locked
- Low profile hatches open up to 180° (round hatches open to 170°)
- Friction levers hold the lid open in any position up to 95°
- Anodised aluminium frame for corrosion resistance
- Curved upper frame profile for strength as well as modern styling
- Available in Round and D-Hatch configuration, with grey or white acrylic
- Full range of spare parts available on-line www.lewmar.com



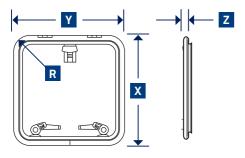




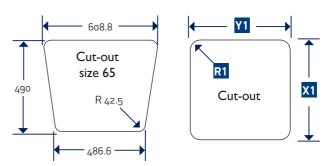
Low Profile Hatch Standard Specifications

- Grey mouldings
- Acrylic colours grey, clear or white
- Size 30 65 supplied with friction hinges as standard
- Simple and easy maintenance on parts

Low Profile Hatch Dimensions



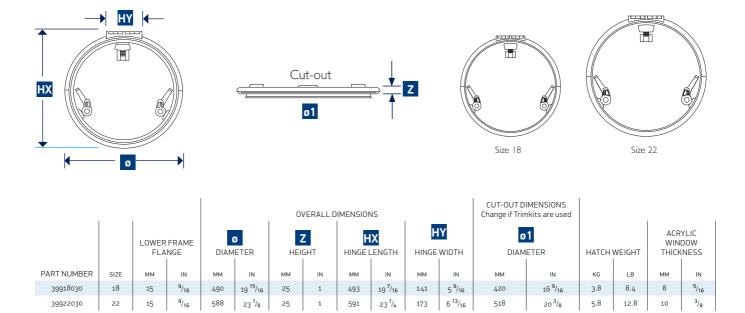
Low Profile Hatch Cut-outs



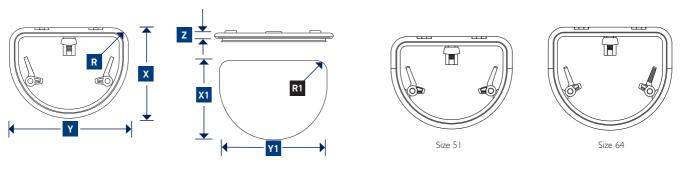
| | | 1 | | | | | | OVE | RALL DIMEN | ISIONS | | ı | | | CUT | | DIMENSIO MKITS AF | | D | | | | |
|---|--------------------------------------|-----------------------------------|------|-------------------|------------------------------|-----|---------------------------------|--------------------|---|--------|----|------|-------------------|-----|----------------------------------|--------|----------------------------------|------|---------|------------------------|------|-----------------------|------|
| ı | PART NUMBER FRICTION LEVER LID | PART NUMBER HATCH WITH STAY | SIZE | LOV FRA FLA | AME | _ | X NGTH | | Y IDTH | HEI | | RA | .DII | | K1 NGTH | | /1 | _ | R1 | HA ⁻ WEI | | ACR' WINE THICK | DOW |
| | | | | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | KG | LB | ММ | IN |
| | 39900030 | | 00 | 15 | 9/16 | 281 | 11 ¹ / ₁₆ | 281 | 11 11/16 | 25 | 1 | 72.5 | 2 7/8 | 211 | 8 ⁵ / ₁₆ | 211 | 8 ⁵ / ₁₆ | 42.5 | 1 11/16 | 1.6 | 3.5 | 8 | 5/16 |
| | 39903030 | | 03 | 15 | 9/16 | 246 | 9 ¹¹ / ₁₆ | 301 | 11 7/8 | 25 | 1 | 72.5 | 2 7/8 | 176 | 6 ¹⁵ / ₁₆ | 231 | g ¹ / ₈ | 42.5 | 1 11/16 | 1.6 | 3.5 | 8 | 5/16 |
| | 39910030 | 399100303 | 10 | 15 | ⁹ / ₁₆ | 330 | 13 | 330 | 13 | 25 | 1 | 72.5 | 2 7/8 | 260 | 10 1/4 | 260 | 10 1/4 | 42.5 | 1 11/16 | 2.2 | 4.9 | 8 | 5/16 |
| | 39920030 | | 20 | 15 | 9/16 | 272 | 10 11/16 | 417 | 16 ⁷ / ₁₆ | 25 | 1 | 72.5 | 2 7/8 | 202 | 7 ¹⁵ / ₁₆ | 347 | 13 11/16 | 42.5 | 1 11/16 | 2.3 | 5.1 | 8 | 5/16 |
| | 39930030 | 399300303 | 30 | 15 | 9/16 | 397 | 15 ⁵ /8 | 527 | 20 ³ / ₄ | 25 | 1 | 72.5 | 2 7/8 | 327 | 12 7/8 | 457 | 18 | 42.5 | 1 11/16 | 4.2 | 9.3 | 8 | 5/16 |
| | 39940030 | 399400303 | 40 | 15 | ⁹ / ₁₆ | 491 | 19 ⁵ /16 | 491 | 19 ⁵ / ₁₆ | 25 | 1 | 72.5 | 2 ⁷ /8 | 421 | 16 ⁹ / ₁₆ | 421 | 16 ⁹ / ₁₆ | 42.5 | 1 11/16 | 4.6 | 10.1 | 8 | 5/16 |
| | 39941030 | | 41 | 15 | 9/16 | 246 | 9 ¹¹ / ₁₆ | 491 | 19 5/16 | 25 | 1 | 72.5 | 2 7/8 | 176 | 6 ¹⁵ / ₁₆ | 421 | 16 ⁹ / ₁₆ | 42.5 | 1 11/16 | 2.5 | 5.5 | 8 | 5/16 |
| | 39944030 | 399440303 | 44 | 15 | ⁹ / ₁₆ | 512 | 20 3/16 | 512 | 20 ³ / ₁₆ | 25 | 1 | 72.5 | 2 7/8 | 442 | 17 ³ /8 | 442 | 17 3/8 | 42.5 | 1 11/16 | 4.8 | 10.6 | 8 | 5/16 |
| | 39950030 | 399500303 | 50 | 15 | ⁹ / ₁₆ | 447 | 17 ⁵ /8 | 577 | 22 11/16 | 25 | 1 | 72.5 | 2 7/8 | 377 | 14 13/16 | 507 | 19 15/16 | 42.5 | 1 11/16 | 4.8 | 10.6 | 8 | 5/16 |
| | 39954030 | 399540303 | 54 | 15 | ⁹ / ₁₆ | 462 | 18 ³ / ₁₆ | 577 | 22 11/16 | 25 | 1 | 72.5 | 2 7/8 | 392 | 15 7/16 | 507 | 19 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 4.9 | 10.8 | 8 | 5/16 |
| | 39960030 | 399600303 | 60 | 15 | ⁹ / ₁₆ | 577 | 22 11/16 | 577 | 22 11/16 | 25 | 1 | 72.5 | 2 7/8 | 507 | 19 ¹⁵ / ₁₆ | 507 | 19 15/16 | 42.5 | 1 11/16 | 6.4 | 14.1 | 10 | 3/8 |
| | 39965030 | | 65 | 15 | 9/16 | 560 | 22 11/16 | 560 MIN 675 MAX | 22 ¹¹ / ₁₆ 26 ⁹ / ₁₆ | 25 | 1 | 72.5 | 2 7/8 | | SEE DRAWI | NG ABO | VE | 42.5 | 1 11/16 | 6.5 | 14.3 | 10 | 3/8 |



Low Profile Round Hatch Dimensions & Cut-out



Low Profile D-Hatch Dimensions & Cut-out



| | | | | | | OV | ERALL D | IMENSIC |)NS | | | | | | IMENSIO nkits are | | | | | | |
|-------------|------|----|------------------------------|-----|----------------------------------|-----|-----------------|---------|-----------------|----------|----------|----------|----------------------------------|-----|-----------------------|------|---------|------------------------|------|----------------------|----------|
| | | | FRAME NGE | LEN | X IGTH | WIE | Y DTH | HEI | Z GHT | F | R DII | X LEN | 1 GTH | Y | <mark>1</mark> DTH | RA | ADII | HA ⁻ WEI | | ACR' WINDOV NE | V THICK- |
| PART NUMBER | SIZE | ММ | IN | ММ | IN | мм | IN | ММ | IN | мм | IN | ММ | IN | ММ | IN | ММ | IN | KG | LB | мм | IN |
| 39951030 | 51 | 15 | 9/16 | 448 | 17 5/8 | 588 | 23 1/8 | 25 | 1 | 72.5 | 2 7/8 | 378 | 14 7/8 | 518 | 20 3/8 | 42.5 | 1 11/16 | 5.5 | 12.1 | 8 | 5/16 |
| 30067300 | 64 | 15 | ⁹ / ₁₆ | 500 | 19 ¹¹ / ₁₆ | 600 | 23 5/8 | 25 | 1 | 72.5 | 2 7/8 | 430 | 16 ¹⁵ / ₁₆ | 530 | 20 7/8 | 42.5 | 1 11/16 | 6.4 | 14.1 | 8 | 5/16 |

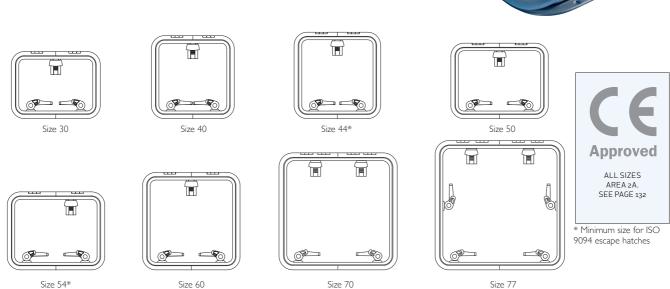


Medium Profile Hatch

Ideal as a foredeck hatch on larger offshore yachts, the Medium Profile has thicker acrylic and deeper frame sections for greater strength and durability. It features Lewmar's unique sealing system, allowing for easy acrylic replacement. The Medium Profile Hatch blends ruggedness with the smooth, modern lines of the Low Profile Hatch.

- Outside handles allow the hatch to be opened from on deck if it is not locked
- Friction levers hold the lid open in any position up to 95°
- Anodised aluminium frame for corrosion resistance
- Curved upper frame profile for strength as well as modern styling
- Full range of spare parts available on-line www.lewmar.com





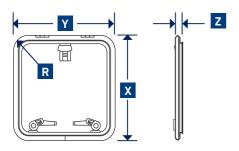




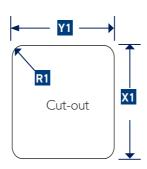
Medium Profile Hatch Standard Specifications

- Grey mouldings
- Acrylic colours grey, clear or white
- Size 30 65 supplied with friction hinges as standard
- Simple and easy maintenance

Medium Profile Hatch Dimensions



Medium Profile Hatch Cut-out

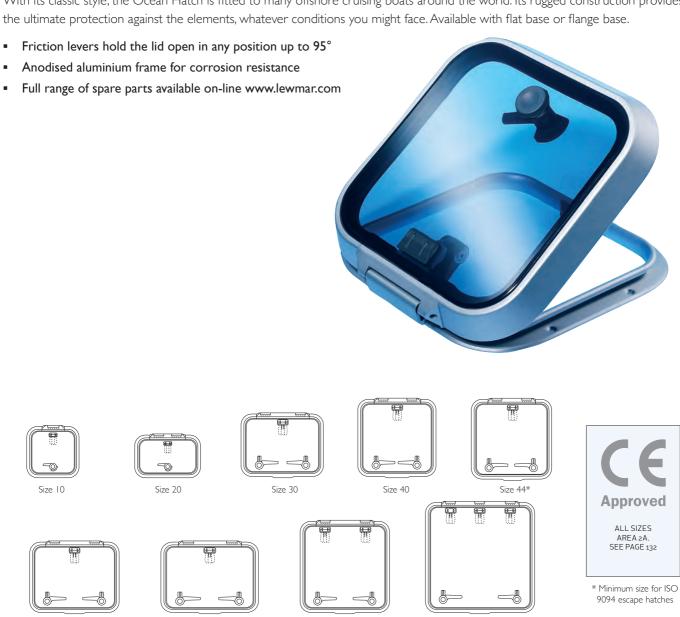


| | | | | | | OV | ERALL D | IMENSIO | NS | | | | | | IMENSION | | | | | | |
|----------|------|-------------------|------------------------------|-----|---------------------------------|-----|---------------------------------|---------|-------|----|--------------------------------|-----|----------------------------------|-----|----------------------------------|------|---------|------------------------|------------|------------------------|-----|
| PART | | LOV FRA FLA | | _ | K IGTH | | Y | HEI | | _ | R IDII | _ | (1 IGTH | Y | 1 | RA | | HA ⁻ WEI | ГСН GHT | ACRY WIND THICKI | woo |
| NUMBER | SIZE | ММ | IN | ММ | IN | MM | IN | ММ | IN | ММ | IN | ММ | IN | MM | IN | MM | IN | KG | LB | ММ | IN |
| 39930020 | 30 | 15 | 9/16 | 398 | 15 ⁵ /8 | 528 | 20 3/4 | 32 | 1 1/4 | 78 | 3 1/16 | 327 | 12 7/8 | 457 | 18 | 42.5 | 1 11/16 | 5 | 11.1 | 12 | 1/2 |
| 39940020 | 40 | 15 | ⁹ / ₁₆ | 492 | 19 ³ /8 | 492 | 19 ³ /8 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 421 | 16 ⁹ / ₁₆ | 421 | 16 ⁹ / ₁₆ | 42.5 | 1 11/16 | 5.9 | 13 | 12 | 1/2 |
| 39944020 | 44 | 15 | ⁹ / ₁₆ | 513 | 20 3/16 | 513 | 20 3/16 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 442 | 17 3/8 | 442 | 17 ³ /8 | 42.5 | 1 11/16 | 6.4 | 14.1 | 12 | 1/2 |
| 39950020 | 50 | 15 | ⁹ / ₁₆ | 448 | 17 ⁵ /8 | 578 | 22 3/4 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 377 | 14 13/16 | 507 | 19 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 6.3 | 13.9 | 12 | 1/2 |
| 39954020 | 54 | 15 | ⁹ / ₁₆ | 463 | 18 1/4 | 578 | 22 3/4 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 392 | 15 7/16 | 507 | 19 15/16 | 42.5 | 1 11/16 | 6.5 | 14.3 | 12 | 1/2 |
| 39960020 | 60 | 15 | ⁹ / ₁₆ | 578 | 22 3/4 | 578 | 22 3/4 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 507 | 19 ¹⁵ / ₁₆ | 507 | 19 ¹⁵ / ₁₆ | 42.5 | 1 11/16 | 7.8 | 17.2 | 12 | 1/2 |
| 39970020 | 70 | 15 | 9/16 | 698 | 27 1/2 | 698 | 27 1/2 | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 627 | 24 11/16 | 627 | 24 11/16 | 42.5 | 1 11/16 | 10.6 | 23.4 | 12 | 1/2 |
| 39977020 | 77 | 15 | ⁹ / ₁₆ | 770 | 30 ⁵ / ₁₆ | 770 | 30 ⁵ / ₁₆ | 32 | 1 1/4 | 78 | 3 ¹ / ₁₆ | 699 | 27 1/2 | 699 | 27 1/2 | 42.5 | 1 11/16 | 12.7 | 28 | 12 | 1/2 |



Ocean Hatch

With its classic style, the Ocean Hatch is fitted to many offshore cruising boats around the world. Its rugged construction provides



Size 60

Size 70

Size 50

Size 54





Ocean Hatch Standard Specifications

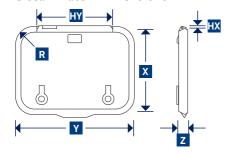
Simple and easy maintenance

- Grey mouldings
- Acrylic colour: grey
- Size 30 65 supplied with friction hinges as standard

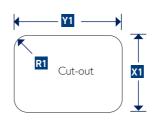


Flat Base profile

Ocean Hatch Dimensions



Ocean Hatch Cut-out



| | | | | | OVE | RALL D | IMENSI | ONS | | | | | | | | | | IMENSIO nkits are | | | | | | |
|----------------------|------|---------------------|-----|---------------------------------|-----|---------------------------------|--------|----------|----|---------------------------------|------------|------|------------|--------------------------------|------------|--|------------|---|------------|---|------|------------|-----------------------|-----|
| PART | | LOWER | LEN | K IGTH | WIE | Y DTH | HEI | Z GHT | RA | R ADII | HIN LEN | IGE | HIN WIE | IGE | | K1 | | /1 DTH | RA | 1 DII | | TCH GHT | ACR\ WINE THICK | woo |
| NUMBER | SIZE | FRAME | ММ | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM | IN | KG | LB | MM | IN |
| 39610050 39610070 | 10 | FLAT BASE FLANGE | 324 | 12 3/4 | 324 | 12 3/4 | 39.5 | 1 9/16 | 75 | 2 ¹⁵ / ₁₆ | 5 | 3/16 | 138 | 5 ⁷ / ₁₆ | 255 260 | 10 ¹ / ₁₆ | 255 260 | 10 1/16 | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 2.26 | 5.77 | 10 | 3/8 |
| 39620050 39620070 | 20 | FLAT BASE FLANGE | 266 | 10 1/2 | 411 | 16 ³ / ₁₆ | 39.5 | 19/16 | 69 | 2 ¹¹ / ₁₆ | 5 | 3/16 | 225 | 8 7/8 | 197 202 | 7 ³ / ₄ 7 ¹⁵ / ₁₆ | 342 347 | 13 ⁷ / ₁₆ 13 ¹¹ / ₁₆ | 34 36.5 | 1 ⁵ / ₁₆ 1 ⁷ / ₁₆ | 2.74 | 6.04 | 10 | 3/8 |
| 39630050 39630070 | 30 | FLAT BASE FLANGE | 391 | 15 3/8 | 521 | 20 1/2 | 39.5 | 1 9/16 | 75 | 2 ¹⁵ / ₁₆ | 5 | 3/16 | 335 | 13 3/16 | 322 327 | 12 ¹¹ / ₁₆ | 452 457 | 17 ¹³ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 4.5 | 9.9 | 10 | 3/8 |
| 39640050 39640070 | 40 | FLAT BASE FLANGE | 485 | 19 1/8 | 485 | 19 1/8 | 39.5 | 1 9/16 | 75 | 2 ¹⁵ / ₁₆ | 5 | 3/16 | 299 | 11 3/4 | 416 421 | 16 ³ / ₈ 16 ⁹ / ₁₆ | 416 421 | 16 ³ / ₈ 16 ⁹ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 4.76 | 10.5 | 10 | 3/8 |
| 39644050 39644070 | 44 | FLAT BASE FLANGE | 509 | 20 1/16 | 509 | 20 1/16 | 43 | 1 11/16 | 76 | 3 | 4 | 3/16 | 302 | 11 7/8 | 437 442 | 17 ³ / ₁₆ 17 ³ / ₈ | 437 442 | 17 ³ / ₁₆ 17 ³ / ₈ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 5 | 11 | 12 | 1/2 |
| 39650050 39650070 | 50 | FLAT BASE FLANGE | 444 | 17 1/2 | 574 | 22 5/8 | 43 | 1 11/16 | 76 | 3 | 4 | 3/16 | 367 | 14 7/16 | 372 377 | 14 ⁵ / ₈ 14 ¹³ / ₁₆ | 502 507 | 19 ³ / ₄ 19 ¹⁵ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 7.3 | 16.1 | 12 | 1/2 |
| 39654050 39654070 | 54 | FLAT BASE FLANGE | 459 | 18 ¹ / ₁₆ | 574 | 22 5/8 | 43 | 1 11/16 | 76 | 3 | 4 | 3/16 | 367 | 14 7/16 | 387 392 | 15 ¹ / ₄ 15 ⁷ / ₁₆ | 502 507 | 19 ³ / ₄ 19 ¹⁵ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 7.6 | 16.7 | 12 | 1/2 |
| 39660050 39660070 | 60 | FLAT BASE FLANGE | 574 | 22 5/8 | 574 | 22 5/8 | 43 | 1 11/16 | 76 | 3 | 4 | 3/16 | 367 | 14 7/16 | 502 507 | 19 ³ / ₄ 19 ¹⁵ / ₁₆ | 502 507 | 19 ³ / ₄ 19 ¹⁵ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 8 | 17.6 | 12 | 1/2 |
| 39670050 39670070 | 70 | FLAT BASE FLANGE | 694 | 27 ⁵ / ₁₆ | 694 | 27 ⁵ / ₁₆ | 43 | 1 11/16 | 76 | 3 | 4 | 3/16 | 487 | 19 3/16 | 622 627 | 24 ¹ / ₂ 24 ¹¹ / ₁₆ | 622 627 | 24 ¹ / ₂ 24 ¹¹ / ₁₆ | 40 42.5 | 1 ⁹ / ₁₆ 1 ¹¹ / ₁₆ | 10.8 | 23.8 | 12 | 1/2 |



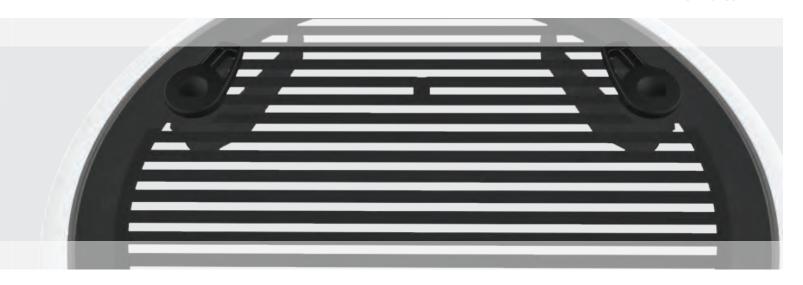
Stainless Steel Hatch

Using Lewmar's proven hatch technology, Lewmar are now able to offer stainless steel deck hatches. The stainless hatch complements and matches other stainless fittings on a high specification deck.

The hatches have a similar profile to the highly successful Medium Profile Hatch and are directly interchangeable. This flexibility allows boat builders to tailor deck specification to individual customer requirements without retooling.

- High-polished stainless steel upper frame and hinges
- High-polished stainless or black fittings
- CE approved Area 2A
- Gas struts available as an option
- White lower frame





Integral Privacy Blind

The Lewmar Integral Privacy Blind provides a low-cost blind solution.

The blind is permanently installed under the hatch lens. When the shutter is open a pattern of stripes across the lens provides a moderate level of privacy. When the slider is operated, the lens is completely obscured to ensure that no one can see into the cabin. This system is ideal for cabins and heads compartments where there is no room to fit a Roller Shade.

The Integral Privacy Blind can be specified on any Lewmar hatch to suit an OEM's specific requirements.

- Clean aesthetics
- Simple operation with effective blackout

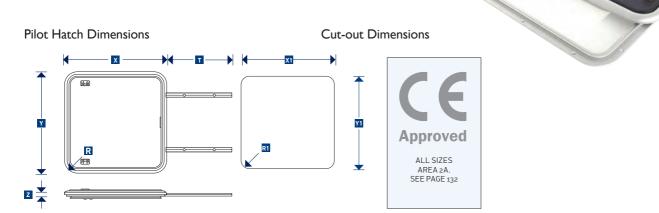




Pilot Hatch

The Pilot Hatch is designed for use on the wheelhouse or cockpit canopy of a power craft, and the styling complements the Low Profile and Medium Profile Hatch Ranges.

- Opens up enclosed steering positions
- Sliding technology from Lewmar's hardware track systems, ensuring minimum friction
- The Pilot Hatch uses Lewmar's unique seal system for improved sealing and easy servicing
- Operated with a single handlebar that rotates to seal down the hatch
- Can be secured with a 5cm opening when full ventilation is not required



| | | | | | | | OVE | RALL DI | IMENSIO | DNS | | | | _ | | | | IMENSIO nkits are i | | | | |
|----------|------|-------------|-----|-------------------|-----|--------|-----|-----------------|---------|-------|----|-------|-----|-------------|-----|---------------------------------|----------|---------------------------------|------|---------|-----------------------|------|
| PART | | ACRYL IC | FRA | VER AME NGE | WIE | | LEN | / GTH | HEI | | RA | | | ACK IGTH | WII | 1 | Y LEN | 1 GTH | RA | _ | ACR' WINI THICK | woo |
| NUMBER | SIZE | COLOUR/TINT | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 30211300 | 40 | SMOKE GREY | 15 | 9/16 | 495 | 19 1/2 | 491 | 19 5/16 | 29 | 1 1/8 | 73 | 2 7/8 | 284 | 11 3/16 | 421 | 16 ⁹ / ₁₆ | 421 | 16 ⁹ / ₁₆ | 42.5 | 1 11/16 | 8 | 5/16 |
| 30074000 | 60 | SMOKE GREY | 15 | 9/16 | 581 | 22 7/8 | 577 | 22 11/16 | 29 | 1 1/8 | 73 | 2 7/8 | 373 | 142/3 | 507 | 19 15/16 | 507 | 19 15/16 | 42.5 | 1 11/16 | 10 | 3/8 |
| 30229100 | 70 | SMOKE GREY | 15 | 9/16 | 701 | 27 5/8 | 697 | 27 7/16 | 29 | 1 1/8 | 73 | 2 7/8 | 486 | 19 1/8 | 627 | 24 11/16 | 627 | 24 11/16 | 42.5 | 1 11/16 | 10 | 3/8 |
| 30069900 | 78 | SMOKE GREY | 15 | 9/16 | 844 | 33 1/4 | 790 | 31 1/8 | 29 | 1 1/8 | 73 | 2 7/8 | 638 | 25 1/8 | 770 | 30 ⁵ / ₁₆ | 720 | 28 1/4 | 42.5 | 1 11/16 | 10 | 3/8 |

Trim Kits are not available for size 78, normal Trim Kit fits size 40, 60 and 70.

Hatches should be fitted to a flat surface with a maximum tolerance of $\pm\,$ I mm.

The Pilot Hatch is only for use on wheel houses and cockpit canopies. It is not suitable for use on normal decks and coachroof applications. Fastening size for lower frame and sliding track use 5mm CSK screws No. 10 UNC 2BA

The pilot hatch cannot be operated from the outside.



Powered Pilot Hatch

Following market demands for more sophisticated systems, Lewmar have used their considerable design experience to create an innovative powered pilot hatch for simple ventilation control.

Effortless operation is achieved through a range of switching options. The full mechanism and railings are contained within the aperture of the hatch and the above-deck profile is only 35mm, ensuring the visual impact is minimal.

Lewmar have developed a truly premium product, blending effortless utility with stunning design.

- Compact mechanism utilises spiral cables for smooth operation
- Load sensing closure provides protection from entrapment
- Can be retrofitted to same aperture as the standard pilot hatch
- Can be held in any position to allow varying degrees of ventilation
- Available in Grey or Dark Grey acrylic

Frame finishes include Matte clear anodized, Bright clear anodized,
 Black powder coat White powder coat



| | | | | | | | | | OVE | RALLD | IMENS | IONS | | | | | | | | iMENSi nkits ar | | | | |
|--------------|------|--------------------|--------------------------|--------|----|-------------------------------|-----|--------------------|-----|----------------------------------|-------|----------|----|-------------------|-----|--------------------|-----|----------|----------|--------------------|------|-------------------------------|-----------------------|-----|
| BASE PART | | ACRYLIC COLOUR/ | UPPER/ LOWER FRAME | POWER | | VER AME NGE | | X DTH | LEN | / GTH | HEI | Z GHT | RA | R IDII | | ACK GTH | WI | 1 | Y LEN | 1 | RA | | ACRY WINE THICK | DOW |
| NUMBER | SIZE | TINT | FINISH | 12/24V | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 30320600 | 60 | | | | 45 | 1 3/4 | 581 | 22 7/8 | 577 | 22 ¹¹ / ₁₆ | 29 | 1 1/8 | 73 | 2 7/8 | 373 | 14 ² /3 | 510 | 20 | 510 | 20 | 42.5 | 1 2/3 | 10 | 3/8 |
| 30307400 | 70 | | NTACT YOUR LEWN | | 45 | 1 ³ / ₄ | 701 | 27 ⁵ /8 | 697 | 27 ⁷ /16 | 29 | 1 1/8 | 73 | 2 ⁷ /8 | 486 | 19 1/8 | 630 | 24 3/4 | 630 | 24 3/4 | 42.5 | 1 ² / ₃ | 10 | 3/8 |
| 30307500 | 78 | | NEI NESENTATIVE | • | 45 | 1 ³ / ₄ | 844 | 33 1/4 | 790 | 31 1/8 | 29 | 1 1/8 | 73 | 2 7/8 | 638 | 25 1/8 | 773 | 30 7/16 | 723 | 28 1/2 | 42.5 | 1 2/3 | 10 | 3/8 |



Flybridge Hatch

Lewmar's flybridge hatches offer a safe and attractive way of accessing to the helm station on flybridge vessels.

Lewmar can customise the shape and size to match OEM requirements. They can be built around the low profile, medium profile or flush hatch platforms.

As with other products acrylic colour, frame finish, lid-support mechanisms etc can be customised to suit.

Contact your Lewmar representative for further information.

Elegant access point to different levels



The flybridge hatches are intended for use between two wet areas. Therefore ISO I 22 I 6 certification is not required.



Powered Hatches

In reponse to shifting design priorities, Lewmar has designed a powered hatch platform for a range of installation possibilities.

Powered hatches are ideal for areas that are difficult to reach by hand, or for hatches too heavy for easy manual operation. Activated at the touch of a button, the smooth opening action is powered by durable, marinised actuators. Internal sensors prevent over-opening and ensure uncompromised seal compression.

Contact your Lewmar representative to discuss our bespoke design process.

- Clean aesthetics based on our proven hatch platforms
- Durable components
- Available in a range of finishes and sizes, custom specified
- Smooth and stable operation





Powerboat Hatch

The Lewmar power boat hatch is a premium product; customisable to suit individual tastes and finished to the highest standards.

316 stainless fittings and polished bevelled edges exude quailty and the painted acrylic hides the seal, framework and deck fixings from view.

- Clean aesthetics
- EPDM seal and gas struts provide high-quality operation
- A range of exterior styling options available
- Painted acrylic to hide seal, lower frame and fixings
- A selection of handle variations available from plastic to stainless steel
- · Highly polished bevelled edge to give a premium finish
- Stainless hinges available
- · Flexible length and strength options





Washboard Hatch

Lewmar's washboard hatch offers a complete turnkey solution to boat-builders who have traditionally fabricated their own washboard solutions in-house.

Lewmar's solution is highly flexible; as long as the sides of the companionway are parallel, Lewmar can produce a washboard to suit.

- Lockable from inside and out
- Simple one-handed operation
- Sprung panels
- Choice of I or 2 acrylic panels
- Choice of acrylic colour
- Optional air vents
- Comes with hard anodised side runners

Contact your Lewmar representative for more information.







Access Doors

Building on 50 years of hatch design, Lewmar are constantly developing platforms to offer more onboard solutions. The introduction of watertight doors in various applications is a display of our continued commitment to boat management and safety.

Crew Door

Developed as a discreet solution for concealing crew accommodation, the crew door concept provides a robust closure without interrupting sleek transom lines.

- Locking handles ensure high seal compression
- Available with white or stainless furniture
- Integrated privacy shutter allows enhanced crew concealment
- Sturdy aluminium construction powder-coated to customer specification



Companionway Door

Lewmar strive to identify solutions that follow market trends. The companionway door is a powerboat-focussed solution that combines elegance with functionality to generate unmatched attention to customer desires.



- Custom-shaped acrylic to customer specification, encouraging innovative design concepts
- Flexible solution to a host of varying design scenarios
- Based on proven hatch and hardware platforms
- Secure and watertight entry point to saloon



Soft Roofs and Sun Canopies

In recent years solar shading and sliding roof systems have significantly increased in popularity. Utilising proprietary aluminium extrusions Lewmar is able to offer a range of soft roofs and canopies to match the OEMs specific requirements.

Our sliding roofs are built on the backbone of Lewmar's proven hardware range and are available in both manual and powered options. They can be supplied complete with fabric ready for installation or the OEM can fit their own choice of fabric.

Lewmar's folding arm sun canopies are custom-sized to suit the boat's requirements. Available in stainless steel or aluminium and powered for ease of use. As with our sliding roofs, the fabric can be supplied with the roof or can be customer-sourced. Remote control is available as an option.

- Soft canvas retractable roof
- Can be scaled/sized to fit most boats
- Manual and motorised version is available
- Roof can be locked in various open positions, which are customisable
- Main beams have individual tensioning system to ensure canvas is taut over length and width
- Canvas locking system allows for easy canvas removal for maintenance





Aft Retracting Sun Canopy

A recent addition to the Lewmar range, the electric retractable canopy offers a sleek sunshade, most commonly used in aft areas while not under way.

Built from stylish oval stainless steel tubing and investment-cast end fittings, the canopy can be deployed via its single electric motor at the touch of a button. Gas springs within the folding arms keep the canopy under constant tension at various stages of deployment.

An aluminium valance is available in a custom range of colours, providing a seamless finish to the superstructure when in the fully stowed position.

- Soft canvas or mesh fabric
- 316 Stainless Construction
- I2V or 24V Power Options
- Simple installation and fabric replacement
- A built-in mechanism allows for height adjustment post installation
- Carbon or Stainless Steel poles for supports whilst underway
- Custom sizes upon request
- Valances can be custom formed to suit superstructure





Hatch Accessories

ABS Plastic Trim and Flyscreen

- Easy and stylish way of finishing a hatch installation inside the cabin
- Trim kits come complete with a flyscreen
- Can only be fitted to boats with a headlining

Will fit all standard hatches featured in this catalogue except flat base Ocean Hatches or unless otherwise stated

Cut Out Dimensions and Deck Thickness Requirements

| CUT OUT DIMENSION INCREASE ¹ | ADD 4MM TO X1 ® Y1 AND 2MM TO R1 |
|---|---|
| OCEAN | MIN HULL THICKNESS = 25MM MAX HULL THICKNESS = 72MM |
| FLUSH HATCH / LOW AND MEDIUM PROFILE | MIN HULL THICKNESS = 15MM MAX HULL THICKNESS = 62MM |
| | • |

I Cut Out dimensions for hatches are shown on their relevant pages

| PART NUMBER | HATCH SIZE |
|-------------|-----------------|
| 367400252 | 00 ² |
| 367403252 | 03 |
| 367410252 | 10 |
| 367618252 | 18 ROUND |
| 367420252 | 20 2 |
| 367620252 | 20 OCEAN |

| PART NUMBER | HATCH SIZE |
|-------------|------------|
| 367622252 | 22 ROUND |
| 367630252 | 30 |
| 367640252 | 40 |
| 367441252 | 41 |
| 367644252 | 44 |
| 367650252 | 50 |

| HATCH SIZE |
|------------|
| 51 |
| 54 |
| 60 |
| 65 |
| 70 |
| |

Telescopic Stay

- Features excellent lid positioning and rigid control
- Allows hatch opening up to 95°

Black: 360918992 360918999

• An advantage on smaller to mid size yachts where deck space is at a premium



Retro-Fit Vent

- Vent can be fitted to the acrylic lens of any Lewmar hatch or to the deck
- Made from the same rugged composite used in many Lewmar hatch and winch parts
- Styled to match the Low and Medium Profile hatches

Grey: 361041990 Mini Grey: 361899990 Black: 361041992 Mini Black: 361899991

- Captive bung to close the ventilator it cannot be lost
- Fits deck thickness to 100mm
- Tested to CE ISO 12216 and leak tested
- No sealant required for hatch fitting



Retro-Fit Lock and Key Kit

- Can be fitted to any Lewmar Hatch by drilling a hole through the acrylic and riveting a catch block to the
- Lock and key are marinised to prevent corrosion

Part No 360259990

Flyscreen Hinge

- Makes it easier to access the handles when the flyscreen is in place
- Only necessary to undo two tabs and the
- flyscreen will hinge $\operatorname{down}-\operatorname{and}$ not fall out
- Flyscreen can be removed and stowed separately if required
- Hinges are also available as retro fit items
- Kit includes all tabs, screws, screw cap etc.





² Does not fit Ocean, Rollstop or Superhatch

4. Hatch & Portlight Hatch Spares

Hinge Caps



| PART NO | КІТ |
|-----------|--|
| 361027999 | LOW AND MEDIUM PROFILE HINGE CAP X 10 |
| 261077000 | LOW AND MEDILIM PROFILE HINGE CARP X 100 |

Catch Block



| PART NO | KIT |
|-----------|--------------------------------------|
| 360924990 | LOW AND MEDIUM PROFILE SPARE (GREY) |
| 360924992 | LOW AND MEDIUM PROFILE SPARE (BLACK) |
| 360060990 | OCEAN CATCH BLOCK SPARE |

Straight Joint Inserts



| PART NO | КІТ |
|-----------|-------------------------------------|
| 360925999 | UPPER FRAME JOINT INSERT (STRAIGHT) |

Round Joint Inserts



| PART NO | КІТ |
|-----------|----------------------------------|
| 360926999 | UPPER FRAME JOINT INSERT (ROUND) |

Handle kits



| PART NO | КІТ |
|-----------|----------------------------------|
| 361680990 | LP / MP / OCEAN HANDLE KIT GREY |
| 36168099* | LP / MP / OCEAN HANDLE KIT BLACK |
| 361680992 | FLUSH 2G / 3G HANDLE KIT BLACK |
| 36168099* | FLUSH 2G / 3G HANDLE KIT GREY |
| 360255990 | SMALL LH HANDLE KIT GREY |
| 360255992 | SMALL LH HANDLE KIT BLACK |
| 360256990 | SMALL RH HANDLE KIT GREY |
| 360256992 | SMALL RH HANDLE KIT BLACK |

Outside Handles



| PART NO | КІТ |
|-----------|-----------------------------------|
| 360919990 | LP / MP EXTERNAL HANDLE GREY X 5 |
| 360919992 | LP / MP EXTERNAL HANDLE BLACK X 5 |

LP/MP Hatch Hinge Kit (Friction)



| PART NO | KIT |
|-----------|---------------------------------|
| 361263999 | LP / MP MK2 ALLOY LID HINGE KIT |

Friction Lever



| PART NO | KIT |
|-----------|-------------------------------------|
| 360917990 | LP / MP GREY F-LEVER SPARE |
| 360271990 | OCEAN 00-20 GREY F-LEVER SPARE |
| 360272990 | OCEAN 30-40 / CL30-60 F-LEVER SPARE |
| 360273990 | OCEAN 50 / CL65+ F-LEVER SPARE |

Friction Lever Gaskets



| PART NO | КІТ |
|-----------|-----------------------------|
| 361206999 | GASKET - SMALL F-LEVER X 20 |
| 361207999 | GASKET - LARGE F-LEVER X 20 |

Low Profile Seal



| PART NO | LOW PROFILE HATCH SIZE |
|-----------|------------------------|
| 360860999 | 00 |
| 360861999 | 03 |
| 360862999 | 05 |
| 360863999 | 10 |
| 360864999 | 20 |
| 360865999 | 21 |
| 360866999 | 30 |
| 360867999 | 40 |
| 360868999 | 41 |
| 360869999 | 44 |
| 360870999 | 50 |
| 360871999 | 54 |
| 360872999 | 60 |
| 360873999 | 61 |
| 360874999 | 65 (TRAPEZOID) |
| 360875999 | 18 (ROUND) |
| 360876999 | 22 (ROUND) |

Medium Profile Seal



| | PARTNO | MEDIUM PROFILE HATCH SIZE |
|----|-----------|---------------------------|
| | 360959999 | 30 |
| : | 360960999 | 40 |
| | 360961999 | 44 |
| : | 360962999 | 50 |
| | 360963999 | 54 |
| : | 360964999 | 60 |
| | 360965999 | 66 |
| : | 360966999 | 70 |
| : | 360968999 | 77 |
| Ve | Vent Seal | |

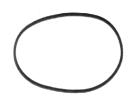
| vent Seai | |
|-----------|----------------|
| PART NO | DESCRIPTION |
| 361446999 | VENT SEALS KIT |

Ocean Hatch Seal



| PART NO | OCEAN HATCH SIZE |
|-----------|------------------|
| 360370999 | 00 |
| 360371999 | 10 |
| 360372999 | 20 |
| 360373999 | 30 |
| 360374999 | 40 |
| 360381999 | 44 |
| 360375999 | 50 |
| 360382999 | 54 |
| 360376999 | 60 |
| 360377999 | 63 |
| 360378999 | 65 |
| 360379999 | 70 |
| 360380999 | 75 |
| 360383999 | 77 |
| | |

Flush Hatch IG/2G Seal



| PART NO | FLUSH HATCH SIZE |
|-----------|------------------|
| 361590999 | 10 |
| 361597999 | 20 |
| 361598999 | 30 |
| 361591999 | 44 |
| 361592999 | 60 |
| 361592999 | 70 |
| 361594999 | 18 (ROUND) |
| 361595999 | 22 (ROUND) |
| 361596999 | 27 (ROUND) |

Misc. Flush Hatch 3G Spares

| PART NO | KIT |
|-----------|----------------------------|
| 360918299 | F3G STAY TOP CAP KIT BLACK |
| 361894999 | F3G STAY UPPER HINGE KIT |

Low Profile Acrylic

For Mk2 (post-2000) hatches with friction lever



| PART NO | SIZE |
|-----------|----------------|
| 361050900 | 00 |
| 361051900 | 03 |
| 361052900 | 10 |
| 361053900 | 20 |
| 361054900 | 21 |
| 361055900 | 30 |
| 361056900 | 40 |
| 361057900 | 41 |
| 361058900 | 44 |
| 361059900 | 50 |
| 361060900 | 54 |
| 361061900 | 60 |
| 361062900 | 61 |
| 361063900 | 65 (TRAPEZOID) |
| 361064900 | 18 (ROUND) |
| 361065900 | 22 (ROUND) |
| | |

Medium Profile Acrylic

For hatches with friction lever



| PART NO | SIZE |
|-----------|------|
| 361130900 | 30 |
| 361131900 | 40 |
| 361132900 | 44 |
| 361133900 | 50 |
| 361134900 | 54 |
| 361135900 | 60 |
| 361136900 | 70 |
| 361137900 | 77 |

How to identify your Lewmar hatch

Spares are specific to certain ranges of hatch, so identification is essential for ensuring correct parts are used. Hatches produced after October 1997 have information stamped in the acrylic which will identify them - please quote this when ordering spares.

| IDENTIFYING FEATURES | SUPERHATCH | ROLLSTOP | TRIMLINE | COASTLINE ® TRANSPORT | OCEAN | CONCEPT | LOW PROFILE | MEDIUM PROFILE |
|---|------------|----------|--------------|--------------------------|------------|---------|-----------------|-----------------|
| PRODUCTION DATES | 1980-87 | 1986-92 | 1988-99 | 1991-99 | 1991 - NOW | 1994-00 | 1998 -NOW | 1999 - NOW |
| HEIGHT ABOVE DECK (MM) | 50 | 39-42 | 21 | 21 | 40-43 | 19 | 25 | 32 |
| LID IS HELD OPEN BY A STAY | | • | EARLY MODELS | | | | RETROFIT OPTION | RETROFIT OPTION |
| ACRYLIC NOT BONDED INTO AN ALLOY FRAME | | | | | | • | • | • |
| AS THE LID IS LIFTED, IT CLICKS THROUGH A SERIES OF POSITIONS AT WHICH THE HATCH WILL HOLD OPEN | • | • | | | | | | |
| CATCH BLOCKS IN CORNERS OF THE LOWER FRAME | • | | | | | | | |
| LARGE INSIDE HANDLES HAVE RED OR GREY LOCKING BUTTONS INSIDE HANDLE | | • | • | • | • | | • | • |
| HINGE HAS A BLACK METAL STRAP EXTENDING A SHORT WAY OVER THE ACRYLIC. | • | | | | | | | |

Superhatch

- Produced 1980 1987.
- Catch blocks in corners of the lower frame
- Spares no longer available

Rollstop

- Produced 1986 1992.
- Red locking button in larger handles
- Spares no longer available

Trimline

- Produced 1988-1999
- Red locking button in larger handles
- Fastenings inside lip
- Metal sliding stay
- Seals and handles available as spares.



Coastline

- Produced 1991 1999
- Locking button in larger handles
- Fastenings inside lip
- Friction lever
- Seals, friction lever and handles available as spares



Ocean Hatch

- Produces 1991 now
- Locking button in larger handles
- Inverted "J" profile lower frame
- Friction lever
- High profile lid
- Full range of spares available



Low Profile Hatch

- Produced 1998 now
- Replaceable acrylic panel
- Small handles bonded on
- Mark I and Mark 2
- Quote acrylic marking when ordering spares



Medium Profile Hatch

- Produced 1999 now
- Replaceable acrylic panel
- Mark I and Mark 2



Flush 2G

- Produces 2006 now
- Painted arcylic lid
- Seal attahced to acrylic
- Full range of spares available
- Quote acrylic marking when ordering spares



Flush 3G

- Produced 2010 now
- Seal attached to lower frame
- Full range of spares available
- Quote acrylic marking when ordering spares







How to find your lens code

All Lewmar hatches and portlights (except old Standard) produced since October 1997 have had identification information stamped on the acrylic. On Portlights and Fixedlights the information is under the LEWMAR branding. On hatches the information is between the right hand handle and the edge of the acrylic.

Identifying the range name & hatch size

For Hatches: Ocean, Coastline, Trimport, Trimline or Concept

For Portlights: Standard (New Standard only), Atlantic, Ocean or ASTAR (Hallberg Rassy only)

There are three different formats:



On some Lewmar hatches you may need to peel back the seal slightly to reveal the code.

The size is abbreviated as **SZXX**, for example:

SZ60 = Size 60 hatch

For portlights the 2 digits used are the 4th and 5th digits of the part number. The 1st digit denotes the size, the 2nd the configuration. For example:

SZ42 = Size 4 New Standard opening portlight

SZ41 = Size 1 New Standard Fixed light

A number in the form 399SSXR

SS is the hatch size

X is the acrylic colour: 0 - grey, 2 - clear, 3 - white, 4 - green, 6 - frosted, 8 - dark grey

R is the Range: 3 is Low Profile and 2 is Medium Profile

On Mark 2 Low & Medium Profile hatches the number is preceded by 'A'.

A number in the form **300XXX**. This is the first 6 digits of a hatch or portlight custom product part number.

Identifying the date of manufacture

This appears at the end of the code, in the form **DDMY** (for example 11]7) where the letter code for the month is:

 A - January
 G - July

 B - February
 H - August

 C - March
 J - September

 D - April
 K - October

 E - May
 L - November

 F - June
 M - December

The letter I "India" is not used

There are some features that the coding does not identify. For example:

- Frame finish / colour
- Friction Lever or power boat Stay
- If accessories such as Lock & Key Kit and Vent are fitted

This information, and an acrylic code identifier, are available at lewmar.com/find-my-hatch



The Lewmar Portlight Range





Page 168 Flush Mitre Portlight

- Number of textures, angles and levels is minimised in order to minimise the visual impact of the portlight on the boat
- Acrylic almost flush with the mounting surface
- 12mm acrylic is used in order to achieve the flush effect
- Flat outer frame
- Outer frame powder-coated black to camouflage with the acrylic lens





Page 170 Stainless Steel Portlight

- Polished stainless outer frame with no joint
- Handles and hinges are fitted to the edge of the Friction hinges hold the window open lens to allow clear visibility
- ABS plastic inside trim can be cut to length





Page 172 Standard Portlight

- The Standard Portlight is fitted to thousands of boats throughout the world
- Aluminium external frame
- Handles and hinges are fitted to the edge of the lens to allow clear visibility
- Quick-action handles
- ABS plastic inside trim can be cut to length
- Friction hinges hold the window open





Page 174 Atlantic Portlight

- Stronger aluminium outer frame with single welded join
- Lens bonded into alloy frame for additional stiffness
- Stainless 316 handles

- Aluminium inside trim
- Small opening sizes (10,30 & 32) CE Approved for in-hull installation
- Friction hinges hold the window open



Page 176 Custom Portlight Solutions

- Concept 3 Portlight Designed to be installed into larger expanses of acrylic. A ventilation solution that does not compromise aesthetics
- Trimports Flush lines and large apertures. An almost limitless solution for coachroof design



Page 178 Portlight Spares and Accessories

- Flyscreens
- Spare acrylics, hinges, handles etc.
- Portlight Identification Guide



Page 180 Shades

- A selection of flyscreen and blackout shade solutions
- Surface-mounted and flush solutions available
- Easy installation and operation



Flush Mitre Portlight

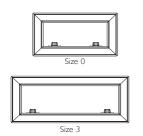
Complementing the styling of the Lewmar Flush Hatch, the Flush Mitre Portlight offers a seamless line from the hull across the portlight. When installed into acrylic, the Flush Mitre Portlight offers a ventilation solution within the illusion of a larger opening.

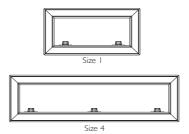
- Development of Lewmar Standard Portlight
- Flat outer frame powder-coated black for minimal visual impact
- Acrylic almost flush with the mounting surface
- Flyscreen not supplied as standard

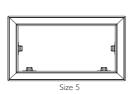
Specifications options:

- Handles: clip (standard) / twist (option)
- Acrylic window 12mm (1/2") colour: grey or dark grey
- Frame colour: Powder-coated black







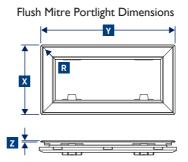


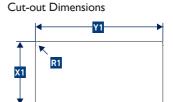
Portlight Valance & Fastening Required

| HULL THICKNESS | FAS | STENING |
|----------------|------------------------|----------------|
| 3.5 то 6.5 мм | 361799999 | M5 X 12MM LONG |
| 7 то 9 мм | 361800999 ¹ | м5 X 16мм LONG |

Standard valance suit hull thickness 3.5 to 9mm. Other valance type available for thicker hull up to 17.5mm. Contact Lewmar for more information

I Supplied as standard with portlight listed below Fastenings supplied in bags of 100







Flush Mitre Portlight Specifications

| | | | | · | 0 | VERALL D | IMENSION | NS. | | | | С | UT-OUT D | IMENSION | S | | | |
|----------------|----------------|------|-----|-------------------|-----|-----------|----------|-----------------|--|------------------------------|-----|-------------------------------|----------|----------------------------------|----|------------------------------|--------------|-----|
| PART NUMBER | PART NUMBER | | WIE | X DTH | | Y IGTH | HEI | Z GHT | | | _ | | | | | | PORTI WEI | |
| GREY | DARK GREY | SIZE | ММ | IN | мм | IN | ММ | IN | мм | IN | мм | IN | ММ | IN | ММ | IN | KG | LB |
| 393029800 | 393029802 | 0 | 175 | 6 ⁷ /8 | 322 | 12 11/16 | 4 | 5/32 | 5 | 3/16 | 156 | 6 ¹ / ₈ | 303 | 11 ¹⁵ / ₁₆ | 5 | ³ / ₁₆ | 1.3 | 2.9 |
| 393129800 | 393129802 | 1 | 190 | 7 1/2 | 366 | 14 7/16 | 4 | 5/32 | 5 | 3/16 | 171 | 6 ³ / ₄ | 347 | 13 11/16 | 5 | ³ / ₁₆ | 1.6 | 3.5 |
| 393329800 | | 3 | 190 | 7 1/2 | 448 | 17 11/16 | 4 | 5/32 | 5 | ³ / ₁₆ | 171 | 6 ³ / ₄ | 429 | 16 ⁷ /8 | 5 | ³ / ₁₆ | 2.0 | 4.4 |
| 393429800 | | 4 | 190 | 7 1/2 | 645 | 25 7/16 | 4 | 5/32 | 5 | 3/16 | 171 | 6 ³ / ₄ | 626 | 24 11/16 | 5 | ³ / ₁₆ | 2.8 | 6.2 |
| 393529800 | | 5 | 263 | 10 11/32 | 448 | 17 5/8 | 4 | 5/32 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | ³ / ₁₆ | 2.6 | 5.7 | | | | | | |

Flush Mitre Custom Size Portlight Specifications

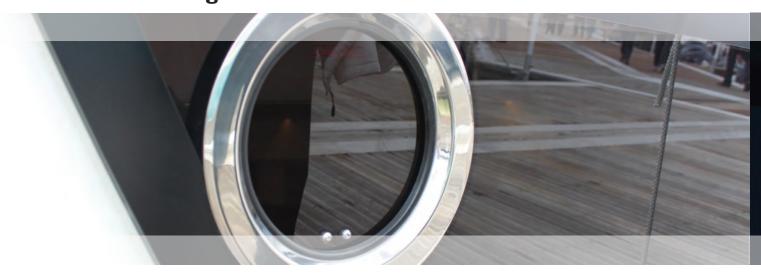
| | | | | | 0 | VERALL D | IMENSION | NS. | | | | CI | JT-OUT D | IMENSION | S | |
|----------------|----------------|-----------|-----|----------|-----|----------------------------------|----------|------|---------|------------------------------|-----|----------------------------------|----------|----------------------------------|----|------------------------------|
| PART NUMBER | PART NUMBER | | | Х ОТН | | Y IGTH | HEI | | F RA | R.DII | WIE | 1 OTH | Y LEN | 1 | _ | ADII |
| GREY | DARK GREY | FLYSCREEN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 30216000 | | 30277800 | 115 | 4 1/2 | 322 | 12 43/64 | 4 | 5/32 | 5 | ³ / ₁₆ | 96 | 3 ²⁵ / ₃₂ | 303 | 11 15/16 | 5 | ³ / ₁₆ |
| | 30179600 | | 180 | 75/64 | 490 | 19 9/32 | 4 | 5/32 | 5 | 3/16 | 161 | 6 ¹¹ / ₃₂ | 471 | 18 ³⁵ / ₆₄ | 5 | 3/16 |
| 30183700 | | 30222000 | 150 | 5 29/32 | 600 | 23 5/8 | 4 | 5/32 | 5 | 3/16 | 131 | 5 ⁵ / ₃₂ | 581 | 22 7/8 | 5 | 3/16 |
| | 30184900 | | 200 | 7 7/8 | 490 | 19 9/32 | 4 | 5/32 | 5 | 3/16 | 181 | 7 1/8 | 471 | 18 ³⁵ / ₆₄ | 5 | 3/16 |
| 30187100 | | | 270 | 10 5/8 | 900 | 35 ⁷ /16 | 4 | 5/32 | 5 | 3/16 | 251 | 9 7/8 | 881 | 34 11/16 | 5 | 3/16 |
| 30196200 | | 30206400 | 360 | 14 11/64 | 500 | 19 11/16 | 4 | 5/32 | 5 | 3/16 | 341 | 13 27/64 | 481 | 18 ¹⁵ / ₁₆ | 5 | 3/16 |
| 30196300 | | 30206500 | 300 | 11 13/16 | 564 | 22 16/64 | 4 | 5/32 | 5 | 3/16 | 281 | 11 ¹ / ₁₆ | 545 | 21 29/64 | 5 | 3/16 |
| 30196400 | | 30206600 | 360 | 14 11/64 | 680 | 26 ⁴⁹ / ₆₄ | 4 | 5/32 | 5 | 3/16 | 341 | 13 27/64 | 661 | 26 | 5 | 3/16 |
| 30198700 | | 30206300 | 338 | 13 19/64 | 360 | 14 11/64 | 4 | 5/32 | 5 | 3/16 | 319 | 12 ⁹ / ₁₆ | 341 | 13 27/64 | 5 | 3/16 |
| 30203300 | | | 440 | 17 21/64 | 354 | 13 15/16 | 4 | 5/32 | 5 | ³ / ₁₆ | 421 | 16 ³⁷ / ₆₄ | 335 | 13 3/16 | 5 | 3/16 |

FLYSCREEN NOT SUPPLIED AS STANDARD
CE APPROVAL TO CATEGORY A, AREA 2B FOR SIZES UP TO 200X600.

Flush Mitre Fixedlight Specifications

| usii i iid e i | ixediigiit spe | Cilications | | | | | | | | | | | | | | |
|--------------------|----------------|----------------|-----|---------------------------------|-----|----------------------------------|----------|------|----|------------------------------|-----|---------------------------------|----------|----------------------------------|----|------|
| | | | | | 0' | VERALL D | IMENSION | 1S | I | | | Cl | JT-OUT D | MENSION | 5 | |
| PART NUMBER | PART NUMBER | PART NUMBER | WI | ТН | LEN | / GTH | HEI | | RA | .DII | WIE | 1 DTH | _ | 1 IGTH | RA | |
| GREY | DARK GREY | CLEAR | MM | IN | ММ | IN | MM | IN | ММ | IN | ММ | IN | ММ | IN | MM | IN |
| 30192000 | 30183800 | 30192200 | 150 | 5 ²⁹ / ₃₂ | 600 | 23 5/8 | 4 | 5/32 | 5 | ³ / ₁₆ | 131 | 5 ⁵ / ₃₂ | 581 | 22 7/8 | 5 | 3/16 |
| 30212200 | | | 174 | 6 7/8 | 423 | 16 ²¹ / ₃₂ | 4 | 5/32 | 5 | ³ / ₁₆ | 155 | 6 ⁷ / ₆₄ | 404 | 15 ²⁹ /32 | 5 | 3/16 |
| | 30211800 | | 193 | 7 ¹⁹ / ₃₂ | 648 | 25 ³³ / ₆₄ | 4 | 5/32 | 5 | ³ / ₁₆ | 174 | 6 ³⁵ / ₆₄ | 629 | 24 49/64 | 5 | 3/16 |
| 30212200 | | | 240 | g ²⁹ /64 | 700 | 27 ⁹ / ₁₆ | 4 | 5/32 | 5 | ³ / ₁₆ | 221 | 8 ⁴⁵ / ₆₄ | 681 | 26 ¹³ / ₁₆ | 5 | 3/16 |

CE APPROVAL TO CATEGORY A, AREA 1 ON SIZE 150X600



Stainless Steel Portlight

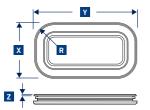
With its highly polished stainless outer frame, the Stainless Portlight offers a clean, modern look. The handles and hinge system are designed to leave the lens clear of obstructions, giving an uncluttered view.

- ABS plastic trim
- Easily fitted by clamping the cabin sides between inner and outer frame with screws provided that are fastened into the outer frame
- Can be installed with sealant or closed cell PVC tape
- Trim with clean styling
- Full range of spare parts available online at www.lewmar.com

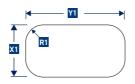
Specifications options:

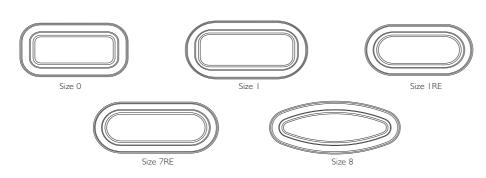
- Handles: clip (standard) / twist (option)
- Moulding colour: grey
- Acrylic colour: grey (standard), other colours available
- Frame colour: stainless steel
- Comes complete with trim and flyscreen





Stainless steel Portlight Cut-out











| | | | | | | 0\ | /ERALL DI | MENSIO | NS | | | | Cl | JT-OUT I | DIMENSION | NS. | | | | | |
|-----------|------|--------|---------|-----|---------------------------------|-----|--------------------------------|--------|------|------|--------------------------------|----------|-------------------------------|----------|----------------------------------|------|--------------------------------|--------------|------|-----------------------|-----|
| PART | | TRIM | | LEN | K IGTH | | Y IDTH | HEI | | RA | .DII | X LEN | 1 GTH | _ | Y1 IDTH | RA | | PORTI WEI | | ACR' WINI THICK | DOW |
| NUMBER | SIZE | COLOUR | VERSION | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | KG | LB | ММ | IN |
| 393020262 | 0 | WHITE | OPENING | 176 | 6 ¹⁵ / ₁₆ | 323 | 12 11/16 | 4 | 5/32 | 62.0 | 2 7/16 | 156 | 6 ¹ / ₈ | 303 | 12 | 52.0 | 2 ¹ / ₁₆ | 1.5 | 3.30 | 8 | 1/2 |
| 393010262 | 0 | WHITE | FIXED | 176 | 6 ¹⁵ / ₁₆ | 323 | 12 11/16 | 4 | 5/32 | 62.0 | 2 7/16 | 156 | 6 ¹ / ₈ | 303 | 12 | 52.0 | 2 ¹ / ₁₆ | 1.5 | 3.30 | 10 | 3/8 |
| 393120262 | 1 | WHITE | OPENING | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 62.0 | 2 7/16 | 171 | 6 ³ / ₄ | 347 | 13 5/8 | 52.0 | 2 ¹ / ₁₆ | 1.7 | 3.80 | 8 | 1/2 |
| 393110262 | 1 | WHITE | FIXED | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 171 | 6 ³ / ₄ | 347 | 13 5/8 | 52.0 | 2 ¹ / ₁₆ | 1.7 | 3.80 | 10 | 3/8 |
| 393180262 | 1RE | WHITE | OPENING | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 95.5 | 3 3/4 | 171 | 6 ³ / ₄ | 347 | 13 5/8 | 85.5 | 3 ³ /8 | 1.7 | 3.74 | 10 | 3/8 |
| 393170262 | 1RE | WHITE | FIXED | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 95.5 | 3 3/4 | 171 | 6 ³ / ₄ | 347 | 13 5/8 | 85.5 | 3 3/8 | 1.7 | 3.74 | 10 | 3/8 |
| 393780262 | 7RE | WHITE | OPENING | 191 | 7 1/2 | 425 | 16 ³ / ₄ | 4 | 5/32 | 95.5 | 3 3/4 | 171 | 6 ³ / ₄ | 405 | 15 ¹⁵ / ₁₆ | 85.5 | 3 3/8 | 1.9 | 4.18 | 10 | 3/8 |
| 393770262 | 7RE | WHITE | FIXED | 191 | 7 1/2 | 425 | 16 ³ / ₄ | 4 | 5/32 | 95.5 | 3 ³ / ₄ | 171 | 6 ³ / ₄ | 405 | 15 ¹⁵ / ₁₆ | 85.5 | 3 ³ /8 | 1.9 | 4.18 | 10 | 3/8 |
| 393820862 | 8 | CHROME | OPENING | 196 | 7 11/16 | 452 | 17 13/16 | 4 | 5/32 | N/A | N/A | | SEE | DRAWIN | IG ON WEB | | 1.9 | 4.18 | 10 | 3/8 | |
| 393810862 | 8 | CHROME | FIXED | 196 | 7 11/16 | 452 | 17 13/16 | 4 | 5/32 | N/A | N/A | | SEE | DRAWIN | IG ON WEB | SITE | | 1.9 | 4.18 | 10 | 3/8 |

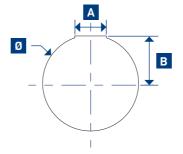
Round Stainless Steel Portlight

Round stainless steel Portlight Dimensions

Cut-out Dimensions







Round Stainless Steel Portlight Specifications

| | | | OVER | ALLØ | | CI | JT-OUT I | DIAMETE | R | | | | | | |
|----------------|----------------|---------|------|----------|-----|----------|----------|---------------------------------|-----|--------|-----------|-----------|-------|------|--|
| PART NUMBER | TRIM COLOUR | VERSION | мм | IN IN | ММ | 0 | MM | A IN | мм | B IN | WEI KG | GHT LB | THICK | NESS | |
| 30209800 | CHROME | OPENING | 250 | 9 7/8 | 230 | 9 1/16 | 76 | 3 | 113 | 4 7/16 | 1.4 | 3 | 10 | 3/8 | |
| 30209900 | CHROME | OPENING | 296 | 11 5/8 | 277 | 10 7/8 | 100 | 3 ¹⁵ / ₁₆ | 136 | 5 3/8 | 2.0 | 4 | 10 | 3/8 | |

Maximum hull thickness 24mm

Minimum hull thickness 8mm

All portlights are supplied with M5 \times 12 fastenings

Flyscreen available for the Round Stainless Portlights

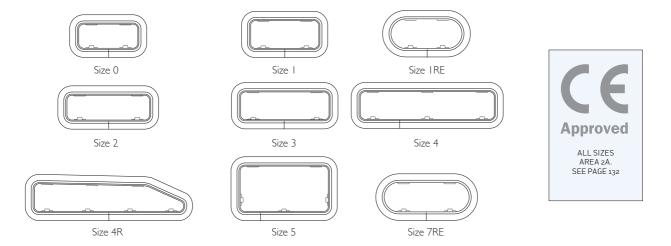


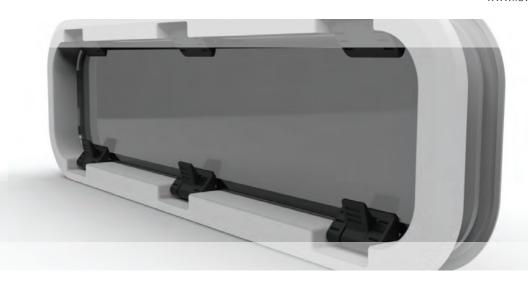
Standard Portlight

A perfect match for any hatch in the Lewmar range, the Standard Portlight is stylish, competitively priced and easy to use and install.

- Easily fitted by clamping the cabin sides between inner and outer frame with screws that are fastened into the outer frame
- Can be installed with sealant or closed cell PVC tape
- White ABS Plastic Trim
- Cut out shape available from www.lewmar.com
- Supplied complete with flyscreen (except sizes 4L and 4R)
- Full range of spare parts available on-line www.lewmar.com





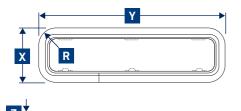


Specifications options:

- Handles: clip (standard) / twist (option)
- Moulding colour: grey
- Acrylic colour: grey (standard), other colours available
- Frame colour: Silver anodized (standard), other finishes available
- Come complete with trim and flyscreen



Standard Portlight Dimensions



Standard Portlight Cut-out





| | | | | 0\ | VERALL D | IMENSION | NS | | | | CI | JT-OUT D | IMENSION | IS | | | | | | |
|-----------|------|-----|---------------------------------|-----|--------------------------------|----------|------|------|--------------------------------|----------|-------------------------------|----------|----------------------|------|--------------------------------|-------------|------|----|-----------------|--|
| PART | | LEN | K IGTH | WIE | Y DTH | HEI | | RA | R ADII | X LEN | 1 GTН | Y WI | 1 DTH | RA | .DII | PORT WEI | | | WINDOW (NESS | |
| NUMBER | SIZE | ММ | IN | мм | IN | мм | IN | мм | IN | мм | IN | мм | IN | мм | IN | KG | LB | ММ | IN | |
| 393020200 | 0 | 176 | 6 ¹⁵ / ₁₆ | 323 | 12 11/16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 156 | 6 ¹ / ₈ | 303 | 11 15/16 | 52.0 | 2 ¹ / ₁₆ | 1.1 | 2.42 | 6 | 1/4 | |
| 393120200 | 1 | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 171 | 6 ³ / ₄ | 347 | 13 11/16 | 52.0 | 2 ¹ / ₁₆ | 1.3 | 2.86 | 6 | 1/4 | |
| 393180200 | 1RE | 191 | 7 1/2 | 367 | 14 7/16 | 4 | 5/32 | 95.5 | 3 3/4 | 171 | 6 ³ / ₄ | 347 | 13 11/16 | 85.5 | 3 3/8 | 1.3 | 2.86 | 8 | 5/16 | |
| 393220200 | 2 | 176 | 6 ¹⁵ / ₁₆ | 425 | 16 ³ / ₄ | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 156 | 6 ¹ / ₈ | 405 | 15 ⁵ /16 | 52.0 | 2 ¹ / ₁₆ | 1.4 | 3.08 | 8 | 5/16 | |
| 393320200 | 3 | 191 | 7 1/2 | 449 | 17 11/16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 171 | 6 ³ / ₄ | 429 | 16 ⁷ /8 | 52.0 | 2 ¹ / ₁₆ | 1.7 | 3.74 | 10 | 3/8 | |
| 393420200 | 4 | 191 | 7 1/2 | 646 | 25 ⁷ /16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 171 | 6 ³ / ₄ | 626 | 24 11/16 | 52.0 | 2 ¹ / ₁₆ | 2.4 | 5.28 | 8 | 5/16 | |
| 393440200 | 4R | 195 | 7 11/16 | 708 | 27 7/8 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 175 | 6 ⁷ / ₈ | 688 | 27 1/16 | 52.0 | 2 ¹ / ₁₆ | 2.4 | 5.28 | 8 | 5/16 | |
| 393460200 | 4L | 195 | 7 11/16 | 708 | 27 7/8 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 175 | 6 ⁷ / ₈ | 688 | 27 1/16 | 52.0 | 2 ¹ / ₁₆ | 2.4 | 5.28 | 8 | 5/16 | |
| 393520200 | 5 | 264 | 10 3/8 | 449 | 17 11/16 | 4 | 5/32 | 62.0 | 2 ⁷ / ₁₆ | 244 | 9 ⁵ /8 | 429 | 16 ⁷ /8 | 52.0 | 2 ¹ / ₁₆ | 2.3 | 5.15 | 10 | 3/8 | |
| 393780200 | 7RE | 191 | 7 ¹ /2 | 425 | 16 ³ / ₄ | 4 | 5/32 | 95.5 | 3 3/4 | 171 | 6 ³ / ₄ | 405 | 15 ¹⁵ /16 | 85.5 | 3 ³ /8 | 2.4 | 5.28 | 8 | 5/16 | |

Maximum hull thickness 34mm

Minimum hull thickness 7mm

All portlights are supplied with 12 off M5 \times 25 screws for hull thickness 17-25mm

Portlights should be fitted to a flat surface +/-Imm



Atlantic Portlight

The Atlantic Portlight has clean lines and proven offshore pedigree.

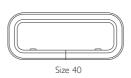
- Extensive range
- Flyscreens provided as standard
- Friction hinges
- Screw handles available as an option
- Full range of spare parts available on-line www.lewmar.com













Specifications options:

- Clip handles standard / Screw handles optional
- Acrylic colour: Grey (standard) other colour optional
- Frame colour: Silver anodized (standard) other finish available
- Come complete with alloy valance and flyscreen
- Portlights and fixed lights come complete with fastenings as indicated in the table

Portlight Valance & Fastening

| HULL THICKNESS MM | VALANCE TYPE | FAST | ENING |
|-------------------|--------------------|------------------------|----------------|
| 8-10 | THIN HULL VALANCE | 360360999 ¹ | M5 X 12MM LONG |
| 11-15 | THIN HULL VALANCE | 360361999 | M5 X 16MM LONG |
| 16-19 | THICK HULL VALANCE | 360362999 | M5 X 20MM LONG |
| 20-24 | THICK HULL VALANCE | 360363999 ² | M5 X 25MM LONG |

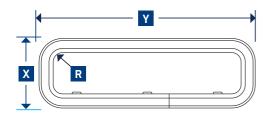
I Supplied as standard with thin hull valances

 $^{2\ \}mbox{Supplied}$ as standard with thick hull valances

Fastenings supplied in bags of 100



Atlantic Portlight Dimensions



Atlantic Portlight Cut-out

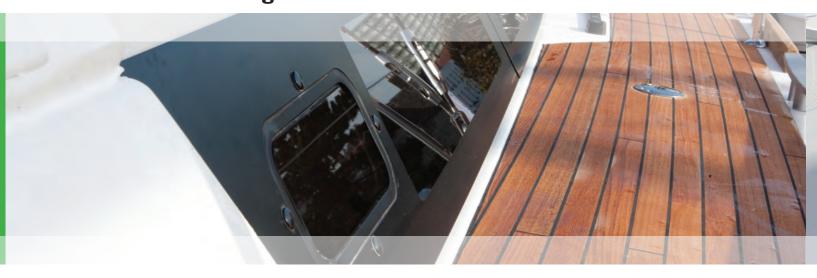


| | | | | · | OV | ERALL D | IMENSI0 | NS | | | | CU | T-OUT D | IMENSIO | NS | | | | | |
|--------------|---------------|------|-----|---------------------------------|-----|--------------------------------|---------|-----|----|---------------------------------|----------|--------------------------------|---------|----------------------------------|----|-------------------|-------------|-----|----|---------|
| PARTI | NUMBER | | LEN | K IGTH | | Y Z WIDTH HEIGH | | | _ | R ADII | X LEN | 1 IGTH | Y | 1 DTH | RA | | PORT WEI | | | IC WIN- |
| THIN VALANCE | THICK VALANCE | SIZE | мм | IN | мм | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | KG | LB | ММ | IN |
| 39110090 | 39110070 | 10 | 174 | 6 ¹⁵ / ₁₆ | 304 | 12 | 6 | 1/4 | 71 | 2 ¹³ / ₁₆ | 154 | 6 ¹ / ₁₆ | 284 | 11 3/16 | 61 | 2 ³ /8 | 1.6 | 3.5 | 8 | 5/16 |
| 39130090 | 39130070 | 30 | 200 | 7 7/8 | 400 | 15 ³ / ₄ | 6 | 1/4 | 71 | 2 ¹³ / ₁₆ | 180 | 7 ¹ / ₁₆ | 380 | 14 15/16 | 61 | 2 ³ /8 | 2.2 | 4.8 | 8 | 5/16 |
| 39132090 | 39132070 | 32 | 198 | 7 13/16 | 401 | 15 13/16 | 6 | 1/4 | 99 | 3 7/8 | 178 | 7 | 381 | 15 | 89 | 3 ¹ /2 | 2.1 | 4.6 | 8 | 5/16 |
| 39140090 | 39140070 | 40 | 200 | 7 7/8 | 480 | 18 7/8 | 6 | 1/4 | 71 | 2 ¹³ / ₁₆ | 180 | 7 ¹ / ₁₆ | 460 | 18 ¹ / ₈ | 61 | 2 ³ /8 | 2.5 | 5.5 | 8 | 5/16 |
| 39160090 | 39160070 | 60 | 200 | 7 7/8 | 600 | 23 5/8 | 6 | 1/4 | 71 | 2 ¹³ / ₁₆ | 180 | 7 ¹ / ₁₆ | 580 | 22 ¹³ / ₁₆ | 61 | 2 ³ /8 | 3.0 | 6.6 | 8 | 5/16 |

Specifications options:

- Smoke grey acrylic and silver anodise frames
- Should be fitted to a flat surface with a max tolerance of ± 1mm
- Come complete with fastenings as indicated on above table
- Portlight opening is restricted on very thick hulls.
- At 24mm hull thickness opening angle is 115°



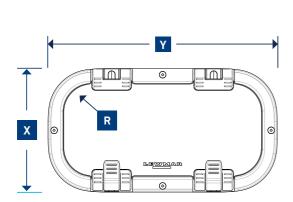


Concept 3 Portlight

The Concept 3 portlight enables the integration of an opening portlight into larger expanses of acrylic. Discreet fastenings and a thin exterior frame minimise the aesthetic compromise as much as possible.

Supplied as a discrete unit, the Concept 3 provides an additional option for boat builders to offer their customers who desire additional ventilation without compromising design or watertight integrity.

- Supply ventilation into the cabin without compromising sleek design lines
- Portlight designed to sit flush in a 8mm thick panel/coachroof
- Seal design based on our proven New Standard platform





| | | OVERALL DIMENSIONS | | | | CUT-OUT DIMENSIONS | | | | | | | | | | | |
|-------------|-----------|--------------------|-----------|-----|-----------------|--------------------|-------|-----|--------|----------|---------|----|-------|----|----------------------|---------------------|--|
| | | LEN | K IGTH | WIE | / DTH | RA | .DII | LEN | IGTH | Y WIE | | RA | _ | | YLIC DOW (NESS | CE CERTIFICATION | |
| PART NUMBER | FLYSCREEN | ММ | IN | MM | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | | |
| 30193600 | 30204400 | 319 | 12 1/2 | 172 | 6 3/4 | 61 | 2 1/2 | 280 | 11 | 133 | 5 1/4 | 39 | 1 1/2 | 25 | 1 | CATEGORY A, AREA 2B | |
| 30216100 | | 360 | 14 3/16 | 162 | 6 3/8 | 61 | 2 1/2 | 321 | 12 5/8 | 123 | 4 13/16 | 39 | 1 1/2 | 25 | 1 | CATEGORY B, AREA 1 | |

FLYSCREEN NOT SUPPLIED AS STANDARD
CE APPROVAL TO CATEGORY A, AREA 2B FOR SIZES UP TO 200X600



Flush Trimports

The Flush Trimport provides yacht designers with an alternative way of styling the coachroof coaming.

The trimport is a long, thin, outward opening hatch. On the outside of the yacht a long, uninterrupted panel provides a supremely smooth aesthetic. The outward opening removes the issue experienced with conventional portlights of water running off the lens and into the boat.

Flush Trimports must be integrated into the vessel at the design stage as custom shapes are required for each boat model.

- Based on flush hatch platform
- Flexible sizing to suit OEM requirements
- Flyscreen not supplied as standard
- Contact Lewmar for further information





Portlight Accessories and Spares

Portlight Flyscreen

Portlight Flyscreen provides easy installation and removal. Note: Portlight cannot be closed with flyscreen in place



Standard Portlight Clip Flyscreens



Atlantic Portlight Clip Flyscreens



Stainless Portlight Flyscreens



| PART NUMBER | TO SUIT STANDARD PORTLIGHT | | |
|-------------|-------------------------------|--|--|
| 367302936 | SIZE 0 | | |
| 367312936 | SIZE 1 | | |
| 367318936 | SIZE 1RE | | |
| 367322936 | SIZE 2 | | |
| 367332936 | SIZE 3 | | |
| 367342936 | SIZE 4 | | |
| 367352936 | SIZE 5 | | |
| 367378936 | SIZE 7RE | | |

| PART NUMBER | TO SUIT ATLANTIC PORTLIGHT | | |
|-------------|-------------------------------|--|--|
| 367110936 | SIZE 10 | | |
| 367130936 | SIZE 30 | | |
| 367132936 | SIZE 32 | | |
| 367140936 | SIZE 40 | | |
| 367160936 | SIZE 60 | | |
| | | | |

| PART NUMBER | TO SUIT STAINLESS PORTLIGHT | | | |
|-------------|--------------------------------|--|--|--|
| 367318966 | SIZE 1RE | | | |
| 367378966 | SIZE 7RE | | | |
| 367382966 | SIZE 8 ELLIPTICAL | | | |
| | | | | |
| PART NUMBER | TO SUIT ROUND STAINLESS | | | |

| PART NUMBER | TO SUIT ROUND STAINLESS PORTLIGHT |
|-------------|--------------------------------------|
| 30204300 | SIZE 250 |
| 30205100 | SIZE 296 |

Portlight Fastenings

| | | HULL THICKNESS mm | | | | | |
|--------------------------------------|--|--|--|--|---|--|--|
| DADT | | STANDARD | PORTLIGHT | STAINLESS STEEL PORTLIGHT | | | |
| NUMBER | SCREW SIZE | MIN | MAX | MIN | MAX | | |
| 19899000 | M5 X 12 | 7 | 9 | 7 | 9 | | |
| 19899100 | M5 X 16 | 8 | 13 | 8 | 13 | | |
| 19899200 | M5 X 20 | 12 | 17 | 12 | 17 | | |
| 19899300 | M5 X 25 | 17 | 22 | 17 | 22 | | |
| 19899400 | M5 X 30 | 22 | 27 | 22 | 27 | | |
| 19899500 | M5 X 35 | 27 | 32 | 27 | 32 | | |
| 19899600 | M5 X 40 | 32 | 34 | 32 | 34 | | |
| Screws supplied in quantities of 100 | | | | | | | |
| | 19899000 19899100 19899200 19899300 19899400 19899500 19899600 | NUMBER SCREW SIZE 19899000 M5 X 12 19899100 M5 X 16 19899200 M5 X 20 19899300 M5 X 25 19899400 M5 X 30 19899500 M5 X 35 19899600 M5 X 40 | PART NUMBER SCREW SIZE MIN 19899000 M5 X 12 7 19899100 M5 X 16 8 19899200 M5 X 20 12 19899300 M5 X 25 17 19899400 M5 X 30 22 19899500 M5 X 35 27 19899600 M5 X 40 32 | PART NUMBER SCREW SIZE MIN MAX 19899000 M5 X 12 7 9 19899100 M5 X 16 8 13 19899200 M5 X 20 12 17 19899300 M5 X 25 17 22 19899400 M5 X 30 22 27 19899500 M5 X 35 27 32 19899600 M5 X 40 32 34 | PART NUMBER SCREW SIZE MIN MAX MIN 19899000 M5 X 12 7 9 7 19899100 M5 X 16 8 13 8 19899200 M5 X 20 12 17 12 19899300 M5 X 25 17 22 17 19899400 M5 X 30 22 27 22 19899500 M5 X 35 27 32 27 19899600 M5 X 40 32 34 32 | | |

SIZE o (GREY)

1 (GREY)

4 (GREY)

5 (GREY)

O (DARK GREY)

1 (DARK GREY)

3 (DARK GREY)

4 (DARK GREY)

New Standard Seal

| PART NO | PORTLIGHT SIZE |
|-----------|----------------|
| 360758999 | 0 |
| 360759999 | 1 |
| 360760999 | 2 |
| 360761999 | 3 |
| 360762999 | 4 |
| 360763999 | 4L |
| 360763999 | 4R |
| 360765999 | 5 |
| 361010999 | 7RE |

Flush Mitre Acrylic

For over cam handles

PART NO

361724029

361725029 361726029 361727029

361728029

361724829

361725829

361726829

361727829

New Standard Acrylic

For Mk 2 (post-2000) portlights with over cam handles

| PART NO | SIZE |
|-----------|------|
| 360750009 | 0 |
| 360751009 | 1 |
| 360752009 | 2 |
| 360753009 | 3 |
| 360754009 | 4 |
| 360755009 | 4L |
| 360756009 | 4R |
| 360757009 | 5 |
| 361009009 | 7RE |

Atlantic Portlight Lid Spare

For opening portlights

| PART NO | SIZE |
|-----------|------|
| 360532009 | 10 |
| 360533009 | 30 |
| 360534009 | 32 |
| 360684009 | 40 |
| 360686009 | 60 |

How To Identify Your Lewmar Portlight

Portlights Produced after October 1997 (with the exception of the Old Standard) have Lewmar, the name of the range, the portlight size, and a date code stamped on the acrylic.

All models available in opening, Portlights, or non-opening versions, Fixedlights.

| IDENTIFYING FEATURES | OLD STANDARD | NEW STANDARD | ATLANTIC MK.1 | OCEAN |
|---|--------------|--------------|---------------|-------------|
| PRODUCTION DATES | 1982 - 1998 | 1997 - NOW | 1994 - NOW | 1990 - 2000 |
| ALLOY FRAME AROUND ACRYLIC | | | * | * |
| PLASTIC HANDLES TURN LIKE KEYS TO OPEN | * | | | |
| PLASTIC HANDLES PUSH TO CLOSE | | * | | * |
| METAL HANDLES PUSH TO CLOSE | | | * | |
| PORTLIGHT CLICKS THROUGH POSTIONS AT WHICH WILL STAY OPEN | * | | | * |

(Old) Standard Portlight

- Produced 1982-1998
- No frame around acrylic
- Plastic handles and hinges fastened through acrylic
- Plastic turn to close handles
- 2 frame joins on outside of portlight

New Standard Portlight

- Produced 1997 to date
- No frame around acrylic
- Plastic handles and hinges glued to acrylic
- Plastic push to close handles
- I frame join on outside of portlight
- Interior ABS trim clips into place
- Interior ABS trim fitted with velcro type strips.
- Seals, Hinges & Acrylics s still available for standard sizes

Atlantic Portlight

- Produced 1994 to date
- Alloy frame around acrylic
- Metal push to close handles
- I frame joint in outside of portlight
- Alloy interior trim

Ocean Portlight

- Produced 1990 to 2000
- One size available
- Alloy frame around acrylic
- Plastic handles push sideways to close handles
- Cast frame no joins on outside of portlight
- Interior ABS trim fitted with velcro type strips.
- Deadlights available











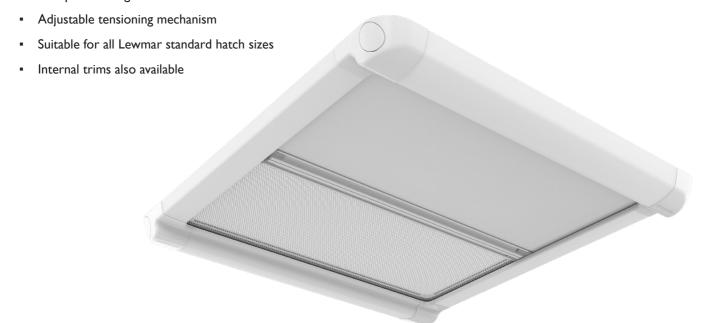
Roller Shade

Designed for the perfect fit to our existing range of hatches, the new modular blind system complements todays stylish interiors. Easy to assemble, fit, maintain and adjust, our new shade range is the perfect addition to our great hatch & portlight range.

All components have been specially selected for their suitability in withstanding the harsh marine environment. The chosen polymers and fabrics are designed to look good within the interior of any boat and are easy to keep clean and offer excellent resistance to damp conditions. Simple and clean in design, our range will complement the internal styling of your boat and provide you with a perfect solution to insect and light protection.

Finding a hatch or port shade to match what you need has never been easier.

- Easy to install 4 simple parts
- 100% blackout material that is UV stable, wipe clean and water repellent
- Durable flyscreen mesh, providing protection and airflow
- Low profile design





Design

Modular joining system for simple installation and maintenance

Connectors

Magnetic connectors for easy stowing and operation

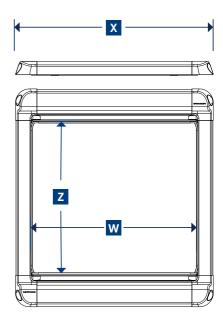
Fabrics

Moisture- and mould-resistant fabrics make up the blackout solar shade & Lewmar flyscreen



| | ı | I | ı | ı | I |
|-------------|------|------------------|-------------------------------|------------------|------------------------|
| PART NUMBER | SIZE | OPENING WIDTH | Z OPENING HEIGHT | OVERALL WIDTH | Y OVERALL HEIGHT |
| 367710100 | 10 | 262 | 262 | 344 | 398 |
| 367720100 | 20 | 349 | 204 | 431 | 340 |
| 367730100 | 30 | 459 | 329 | 541 | 465 |
| 367740100 | 40 | 423 | 423 | 505 | 559 |
| 367741100 | 41 | 423 | 178 | 505 | 314 |
| 367744100 | 44 | 444 | 444 | 526 | 580 |
| 367750100 | 50 | 509 | 379 | 591 | 515 |
| 367754100 | 54 | 509 | 394 | 591 | 530 |
| 367760100 | 60 | 509 | 509 | 591 | 645 |
| 367770100 | 70 | 629 | 629 | 711 | 765 |
| 367780100 | 78 | 721 | 771 | 803 | 907 |





4. Hatch & Portlight



Pleated Shade

Designed on the Lewmar platform, the pleated design offers the reliable modular configuration of the roller shade combined with stylish & contemporary pleated fabrics.

From size 10 to 70, Pleated shade is an elegantly pleated flyscreen and 100% blackout blind. While the blackout blind provides absolute darkness, the flyscreen yields atmospheric and pest free conditions. Simple and clean in design, the pleated shade can be mounted directly to the headlining of any vessel or can be mounted in the headlining as a flush pleated solution.

- Easy to install surface or flush mount option
- 100% honeycomb black out material, UV stable
- Low profile design
- Suitable for all Lewmar standard hatch sizes
- Internal trims also available





Design

Modular design that can be mounted direct to the headlining or in a flush application

Connectors

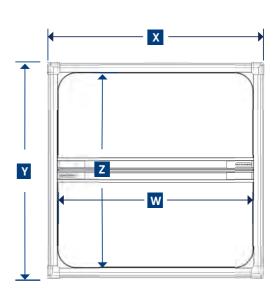
Magnetic connectors for simple, easy stowing and movement between screens

Fabrics

Moisture- and mould-resistant fabrics with pleated 100% blackout solar shade & Lewmar pleated flyscreen



| PART NUMBER | SIZE | OPENING WIDTH | Z OPENING HEIGHT | X OVERALL WIDTH | Y OVERALL HEIGHT |
|-------------|------|------------------|-------------------------------|-----------------------|------------------------|
| 367710400 | 10 | 263 | 263 | 306 | 306 |
| 367720400 | 20 | 350 | 205 | 393 | 248 |
| 367730400 | 30 | 460 | 330 | 503 | 373 |
| 367740400 | 40 | 424 | 424 | 467 | 467 |
| 367744400 | 44 | 445 | 445 | 488 | 488 |
| 367750400 | 50 | 381 | 510 | 424 | 553 |
| 367754400 | 54 | 510 | 395 | 553 | 438 |
| 367760400 | 60 | 510 | 510 | 553 | 553 |
| 367770400 | 70 | 630 | 630 | 673 | 673 |



4. Hatch & Portlight



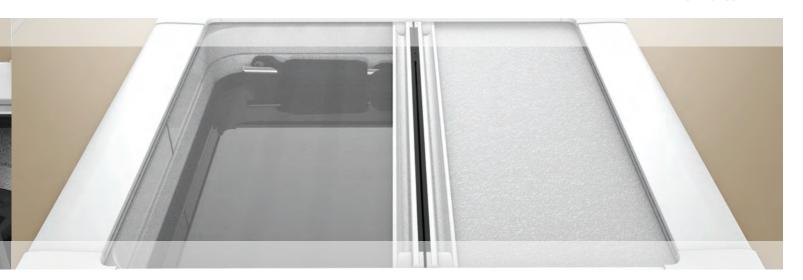
Flush Roller Shade

The Lewmar Flush Roller Shade is available as a integrated OEM solution, designed to offer the reliable modular configuration of the Lewmar Roller Shade in a stylish and contemporary flush solution.

Designed to sit flush within a yacht's headlining, the Flush Roller is a design for the fast-paced OEM market. With a durable and stylish composite extrusion, the shade is fitted with a Lewmar flyscreen and blackout shade. Designed to match Lewmar hatch sizes 10 to 70, this new flush design offers a seamless look in your cabin while retaining all the benefits of the Lewmar Roller Shade systems.

- Easy to install 4 simple parts
- 100% black out material that is UV stable, wipe clean and water repellent
- Durable flyscreen mesh, providing protection and airflow
- Adjustable tensioning mechanism
- Flush design
- Suitable for all Lewmar standard hatch sizes
- Internal trims also available





Design

Flush modular joining system for simple installation and maintenance

Connectors

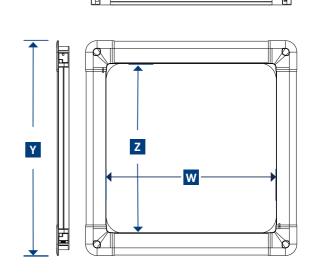
Magnetic connectors for easy stowing and movement of screens

Fabrics

Moisture- and mould-resistant fabrics with blackout solar shade and Lewmar flyscreen







4. Hatch & Portlight



Portshade

Designed for the perfect fit to our existing range of portlights, the Portshade system complements our range of shades.

Quick and simple to install, the Lewmar Portshade is a low profile cassette roller blind, suitable for Lewmar portlight sizes 0 to 5. Portshades can be mounted vertically or horizontal, with the added advantage of being perfectly suited for the curved surface application.

- Easy to install 2 simple parts
- 100% black out material that is UV stable, wipe clean and water repellent
- Compatible with standard Lewmar portlight sizes

Design

Simple fitting with 2 screw installation, sutiable for vertical or horizontal mounting

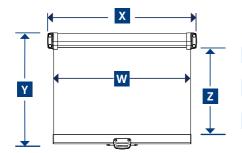
Fabric

100% black out material that is UV stable, wipe clean and water repellent

Fixing

Stylish pull down tabs and easy-locking catch





| | | X | Y | W | Z |
|-------------|--------------|---------------|----------------|-------------|--------------|
| PART NUMBER | SIZE | OVERALL WIDTH | OVERALL HEIGHT | SHADE WIDTH | SHADE HEIGHT |
| 367700300 | SIZE 0 | 409 | 422 | 340 | 280 |
| 367710300 | SIZE 1 / 1RE | 449 | 422 | 380 | 280 |
| 367730300 | SIZE 2/3/5 | 529 | 462 | 460 | 320 |
| 367740300 | SIZE 4 | 729 | 462 | 660 | 320 |
| 367745300 | SIZE 4R / 4L | 789 | 462 | 720 | 320 |



Trim Kits

Complements and covers any gaps between the shade and hatch frame. The trim clips into the shades, simply cut down to adjust to fit any hatch depth.

- Accommodates all Lewmar hatch sizes
- Minimalist and stylish design, hard wearing and easy to clean
- UV resistant material, durable, light reflective and light weight



| PART NO. | SIZE |
|-----------|------|
| 367710150 | 10 |
| 367720150 | 20 |
| 367730150 | 30 |
| 367740150 | 40 |
| 367744150 | 44 |
| 367750150 | 50 |
| 367754150 | 54 |
| 367760150 | 60 |
| 367770150 | 70 |

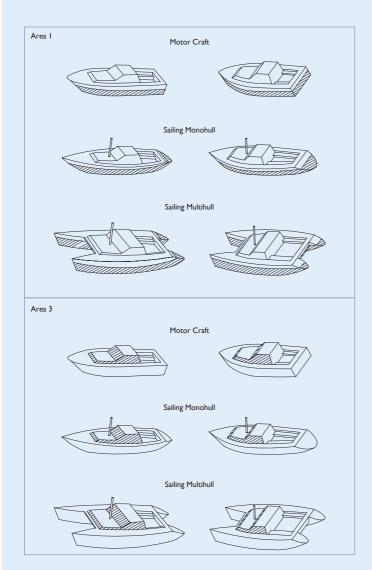


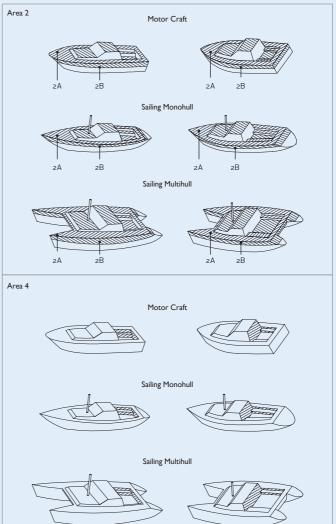


CE Regulations

The CE Regulations apply to craft up to 24m in length that are sold in the European Union. Although the Regulations may not apply to your boat, they are a useful guide for small craft throughout the world.

- The Regulations have Design Categories for boats based on their intended usage and propulsion (sail or power). Boats built to CE Regulations are fitted with a plate showing the Design Category.
- All Lewmar glass products are for Design Category A (Ocean Sailing) or Design Category B (Offshore Sailing).
- The Regulations divide up the hull and deck into four specific 'areas'. These
 are shown below.
- For craft with a freeboard greater than 1/12 of its overall length, the hull is split into Area 1 and Area 2B. Please refer to the Recreational Craft Directive 94/25/EC.
- A product that is suitable for fitting to an area for which it is approved is suitable for all the areas below its category. For example, a portlight that is approved for Area 2A may also be fitted to Areas 3 and 4, but not Areas 1 or 2B.
- All the hatches and portlights in this publication are CE Approved for the areas indicated on the product pages.
- Lewmar warranties are invalid if the product is installed in an area where it is not intended, and if the installation fails to meet the requirements of the CE Regulations.









With 70 years of marine industry experience and knowledge Lewmar is recognised around the world as the leading supplier of hatches and portlights. Since 2014 Lewmar has invested significantly in manufacturing equipment to bring glass and glazing production to our UK factory. Our capabilities include flat, curved, monolithic and laminated glass panels which can be enhanced with pre-assembled stylish manual and electric opening platforms or flush portlights.



Lewmar's commitment to the latest technology is demonstrated via its two industry-leading, full-colour, I440 DPI digital printers. Efficient in-house manufacturing allows the ultimate flexibility and control. Unlike with traditional production methods, there is no heavy up-front tooling cost for either custom curved panels or individually designed frit or graphic design. This capability allows Lewmar to collaborate closely with clients from unique one off designs to high-volume production builders.









With a proven track record in the industry, Lewmar's engineering team develop their standard products to ISO12216. Our team includes specialists on regulatory matters who work closely with key clients to optimise their glazing design and specification, maximising internal light and minimising weight.





At its Havant, UK headquarters, Lewmar offers full in-house testing capabilities and works closely with a wide range of classification societies and notified bodies, including RINA, Lloyds, DNV-GL, ABS, IMCI & HPI. This ensures regulatory compliance for the vessel and peace of mind for the builder and owner.







In-Hull Glazing

Monolithic

Using high-quality raw materials from Pilkington & AGC, Lewmar offers a full range of monolithic glass solutions. Standard thickness sizes range from 4 to 19mm with others available on request. Available colors include clear, European grey and super silver (mirrored finish).





Laminated

Alongside monolithic panels, Lewmar has full in-house lamination capabilities. Operating in a strict pressure and temperature controlled clean room environment, our TEMA oven is optimised to work with market-leading EVA interlayers.







Curved

Lewmar offers curved glass in both monolithic and laminated forms. Using industry-leading technology allows us to produce single radius curved glass with no expensive up-front tooling charges. More complex 3D curves can be produced on our in-house Press Bending machine.





Pre-Installed Portlights

Lewmar have led the market in integrated, pre-mounted flush portlight solutions. This has removed the risk of installation for the boat builder and provides a clean exterior finish to the boat. A wide range of sizes, including round and rectangular portlights, in standard sizes from 112mm to 300mm. Designed to Area 1, 2B or 3 compliance and pre-approved to ISO12216.

PinG

Lewmar's standard integrated flush portlight. Alloy or high-impact acrylic, low-profile internal frame. Fully adjustable, glass-filled nylon hinges and handles. Available in frosted acrylic for use in the heads.





Super PinG

Lewmar's intermediate integrated flush portlight. Minimal visual intrusion with black alloy or high-impact acrylic low-profile internal frame. Stainless steel hinges and handles. Soft-touch rubber handle inserts.







Stainless Super PinG

Lewmar's premium integrated flush portlight. Highly polished, full stainless steel, low-profile internal frame. Stainless steel hinges and handles. Soft-touch rubber handle inserts.

Portlight X

Featuring a glass lens this premium portlight is available with a variety of internal finishes including highly polished stainless steel or black aluminium. Designed to meet the requirements of ISO12216 Area I or Classification Society regulations this is the portlight of choice for Superyacht applications.

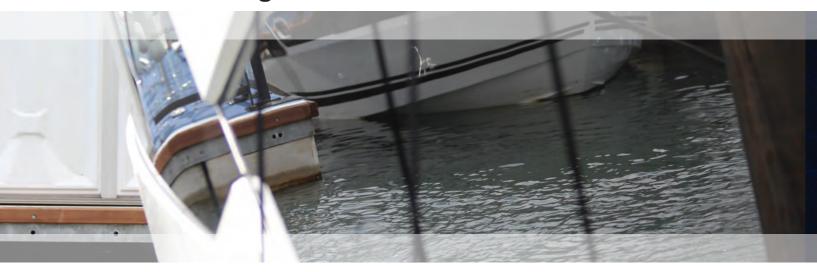
- Available in monolithic or laminated lens
- Alloy, acrylic or stainless frame options





SpunPing

Lewmar's premium flush portlight. Highly polished, full stainless steel, low-profile internal frame. Stainless steel hinges and handles. Soft-touch rubber handle inserts. The Spun Ping perfectly complements the Stainless Super Ping allowing a mix of in hull and integrated portlights to be used on the same vessel.



Butterfly Portlight

Lewmar's butterfly glass in glass portlight offers an integrated, flush portlight solution that seamlessly blends into the vessel's glazing. The port is supplied pre-bonded into a bespoke glass panel, saving on installation time. With its low-profile black anodised or stainless steel frame it offers a minimal interior profile to complement its flush exterior. Ideal for topside ventilation on smaller vessels.



Glass in Glass Hatch

Lewmar's market-leading flush Glass in Glass Hatch combines our extensive knowledge in hatch design with our innovative approach to glazing. Developed as a large - yet unobtrusive - method of ventilation.







Topside Glazing and Glass Openers

The majority of our topside glass is flat; either monolithic or laminated with a UV-inhibiting interlayer. For front screen applications, 2D or 3D curved glass is available.

Designers and builders are increasingly working to generate natural ventilation to minimise the need to run air conditioning while afloat. Modern trends in architectural design have seen a shift towards open-plan living, integrating inside and outside spaces. Recent technological advancements have led to a wide range of manual and powered doors and windows to facilitate a modern lifestyle aboard.



Simple Slider

Market changes have led to the inclusion of opening windows on ever smaller vessels. Platforms traditionally seen on boats of over 40ft are now appearing on boats in the 18/20ft range. This has demanded the requirement for a simple, self-draining sliding window often situated in the helm area.

Lewmar offers both horizontal and vertical solutions for this application.

Powered Vertical Pop & Slide

Typically seen on boats in the 45 to 60 foot range Lewmar's integrated Pop & Slide window allows airflow to the helm station as well as improved external visibility when docking. As with all glass products our design team will work with the customer to optimise the best solution for the vessel and the unit is supplied "ready to fit".







Pop & Slide

Alongside the development in flush, in-hull portlights, Lewmar has introduced a complementary range of sliding windows that are fully flush when in the closed position. These add to the sleek external styling of the vessel yet still fulfil the ever-present need for ventilation.

Typically, smaller boats are fitted with a manual version whereas boats of 50ft and above will opt for a powered window. Lewmar's powered Pop & Slide platform features a proprietary anti-trap, load sensing control solution. Each Pop & Slide is pre-tested, wired and assembled onto the glass panel for easy installation by the boat builder. This has been proven to save 4 to 5 hours of installation time per boat.



Powered fly

Utilising Lewmar's proven aluminium and stainless steel frame designs, a range of glass powered flybridge designs have been created. Using powerful electric linear actuators, these can be powered by motion sensors or manually operated buttons.







Vista

As electrical sliding systems become increasingly common Lewmar has developed a number of design solutions that allow a large expanse of glass to be smoothly lowered, making it possible to remove the barrier between inside and outside spaces. Powered by electric linear actuators or proven worm drive cables, designs exist to allow straight vertical drops or more complex pop in and slide systems. Typical panel sizes are between 2 and 3.5m.



Powered Vista drop

With inside/outside space being a common theme in modern boat design we have solutions to suit a variety of installations. Working with the builder Lewmar's team will maximise opening size whilst minimising the visual intrusion of any framing. A typical installation would see the glass dropping to below deck level to allow uninterrupted panoramic views. As an additional benefit these large openings allow easy airflow which can reduce the requirement for running air conditioning systems.









Patio Doors

Utilising 50 years experience of working with aluminium and stainless extrusions, Lewmar have developed a wide range of Patio Door platforms. Key design features include a hard-coat anodised finish and flush-bonded glass exterior panels with minimal outer frames, providing smooth exterior doors. The sliding systems are a ball-raced stainless steel design for smooth sliding, with movement being controlled by a single-handed, integrated latch bolt design, spring-loaded to positively lock the doors in position.

We can also offer a series of integrated blind solutions, reducing OEM installation times and offering clean lines to the internal space.



Frames

Alloy

A modular design allows for multiple configurations of fixed and sliding panels with minimum visual intrusion. Modern 5-axis machine centres, and common assembly components, ensure a cost-effective platform for volume-driven OEM designs.



Structural Alloy

Predominantly developed with the catamaran market in mind, catamaran doors provide a specific challenge in terms of overall stiffness and movement in the boat structure. The frame design offers 2 key features: a wide I beam design that offers neccessary support and stability, together with a deep recess for the sliding door sections. These are hung from the top of the I beam section, allowing for smooth operation even if there is some flex in the boat structure.



Hybrid

Conceived as an upgrade to our high volume OEM aluminium platform the Hybrid patio door platform features a 2mm highly polished stainless steel visual trim. The end result is a visually stunning door which offers the weight benefit of aluminium with the premium finish of stainless.





Stainless

A premium offering, which utilises a folded 316 stainless steel outer frame. Using the latest folding technology we can produce a stiff, yet relatively lightweight, frame to provide an all stainless steel look, both internally and externally.





Door Designs

Sliding





Bi-fold

Bi-fold doors can be folded neatly to one side of the patio door maximising the opening when required. Utilising a proven triple hinge mechanism, the system provides robust support to the doors in the open and closed position.



Patio Door Window Openers

With stern galley/bar areas becoming increasingly common in many modern designs, there is a requirement for large opening panels to be integrated in patio doors. These can be catagorised by two main designs:

Flip Up

More commonly found on smaller sport top or flybridge models. A glass panel is lifted up by either manual gas struts or electric linear actuators to allow a completely open space where food and drink can be served to the outside living space.

A minimalist alloy frame provides a stiff structure that remains lightweight.



Powered Drop

More commonly found on boats above 50 feet. Lewmar offer both a framed and frameless solution where the glass disappears vertically into the lower door section. This in turn is often integrated into the boat's furniture. A smooth, worm-wheel cable drive system ensures reliable and quiet operation.



Gullwing Door

Opening and folding upwards the Gullwing door offers an elegant solution where space constraints don't allow a traditional Flip Up window to be installed. The design allows for easy installation by the yard via a variety of fastening methods. A typical Gullwing would allow easy access from saloon out onto the side decks.





Roof Glazing

Fixed Glass Roof

Available as standard fit, this is a bonded, fixed panel which is fully interchangeable with the powered roof, ideal for late configuration into production. The fixed panel is designed to keep the basic package price of the boat competitive, with the option of an owner upgrade to the powered solution





Sliding Roof

With a depth of experience in bending, sealing and shaping aluminium hatch platforms, Lewmar has developed a full range of sliding glass sunroof systems. Three standard sizes are available with a 2D curve. Bespoke sizing and custom 3D curved solutions are also possible in low batch runs. A proven electrical worm wheel drive system ensures smooth operation.





Carbon Shutter

Using our in house carbon facility together with the best materials and cutting edge FEA we're able to offer carbon and glass roof shutters of the highest quality. Each roof frame is specifically designed and engineered for that particular boat model and coated in a clear lacquer to emphasise the outstanding finish.

- Bespoke panels and drive systems
- Layup of tools in resin-infused carbon
- Component panels in pre-preg
- Top surface glass or carbon





LEWMAR®

TrendMarine

A Lippert Components Company









www.trendmarine.com



Trend Marine Glass and Glazing

For more than 40 years Trend Marine have been supplying high quality marine glass and glazing solutions to Motor and Sail vessels ranging from 7m to 130m. Now that Trend Marine is a subsidiary business of Lewmar we can offer a wider range of products than ever before from our two UK manufacturing facilities.

Trend's extensive glazing portfolio includes: flat and curved thermally toughened glass, sag bent chemically toughened curved panels, laminated glass, integrated flush portlights in glass, carbon powered electric shutter roofs, sliding hardtop roofs, fabric soft-top systems, framed and unframed flybridge screens as well as patio doors & companionway doors in both stainless steel and aluminium.

Working in collaboration with the industry's most prestigious designers, OEMs and Superyacht builders we offer cutting edge product solutions to suit each individual project. In recent times a key design driver has been the increasing requirement for fresh air in the cabin space to be available at the touch of a button. These powered openers now allow boat owners to enjoy combined inside-outside space with the added benefit of uninterrupted panoramic views.

Our in house compliance team have many years of experience working with the World's leading classification societies and notified bodies. They will assist with optimising your glass specification and thickness within the framework of the relevant regulations whether to Class or ISO12216. If any testing is required this can be carried out on site using our calibrated and approved test rigs.

From our base in Norfolk, UK we can despatch innovative glazing solutions World-wide.



We recognise that refits often require special attention and that speed of response is key. Every refit is individually project managed in-house to ensure each phase progresses as quickly and smoothly as possible. We can offer the complete package from survey through design to build, delivery and finally installation.

For boats where CAD data is unreliable or unavailable the first step is for our team to laser scan survey on site capturing size, shape and curvature of the glass before designing the replacements. Once the glass is built and delivered our experienced glass fitting professionals will attend to carry out the installation



Thermally Toughened Laminated Glass

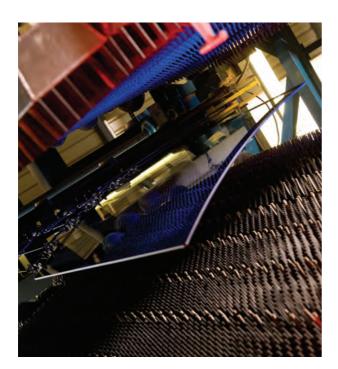
Benefits of Trend Marine toughened and laminated glass:

Choose the best options in interlayer technology

- EVA or DuPont Sentry Glass

Strength of interlayer options means significant weight savings can be achieved compared to traditional glass specifications.

- Flat or curved
- UV protection
- Thermal insulation
- Switchable options
- Coloured film options
- Heated options





Sag Bent Chemically Toughened Laminated Glass

Typically used for large front screens or complex shapes where ultimate optical clarity is required. The glass is initially sag bent over precision engineered stainless tooling before being chemically toughened. Finally the plies are laminated together using the finest interlayers.





Curved Glazing

Trend Marine have two high capacity thermal press bend toughening lines set up for batch production. Typically these are utilised for windscreen manufacture on boats up to 100 feet and offer a cost effective solution to OEM customers.

Our sag bending furnace is utilised when a Superyacht level of finish is required. This technology allows glass to be formed to a tight radius with double curvature and conicity.

Other Glazing Solutions

Roofs

Individually designed sliding roof solutions are available in a range of materials including carbon fibre.

Doors

Electric and manual patio doors are tailored to each yacht's needs. Other door solutions include companionway doors and watertight doors.

Windows

Electric and manual opening side window solutions are designed to offer functionality and style.









www.lippertcomponents.eu



Lippert Components Bed Systems

New for the marine market

Our powered bed systems were originally designed, engineered and built in Italy by our colleagues at Lippert Components. With subtle tweaks by Lewmar to suit the marine environment you can now configure your cabin for sleeping, reading, or day use with the touch of a button. A powered bed system can fundamentally change the use of interior space aboard.

Utilizing a unique nylon strap-based system the modular platform is adaptable to suit a broad range of sail and motorboat applications including saloons, guest rooms and crew cabins. The straps retract into the bed base, concealing the lifting system while in the retracted position and allowing OEMs a new found freedom in floorplan design. The virtually silent operation is controlled by a single motor to raise and lower the bed. The system can be customized in both size and configuration to ensure optimum space utilization.

Smart Bunk Bed

Electronic Bed Lifting System for Bunk Beds

Provides up and down lift for the two bunk beds. This configuration is ideal for use in crew cabins where space is always at a premium.

- Unlimited stroke
- Powerful motor with integrated encoder
- Manual override in case of electrical failure
- Delivered complete with mounting cables
- 400 kg maximum loading capacity (static)





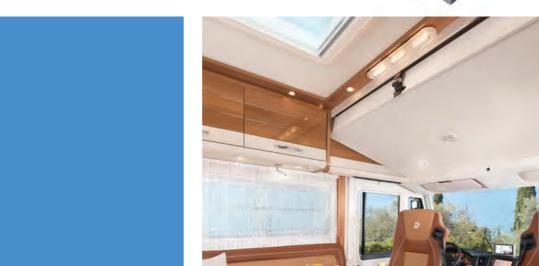


Two-In-One

Electric Bed Lifting System with extendable bed frame

- Designed for vertical lifting and lowering movement
- Locks horizontally or in slant position under the ceiling
- Maximum extension approximately 80% of the width of the bed base
- Electrically operated
- Lightweight, quiet system
- Includes manual emergency system
- Maximum carrying capacity 300 kg







6. Winch



Lewmar winches are designed with both cruising sailors and racing crews in mind. The EVO® range of winches meets the needs of sailors and boat builders with a perfect blend of looks, functionality, and reliability. We have a range of new race-inspired winches and, for short-handed crews, the revolutionary REVO® backwinding winch makes sail handling a breeze.

Constant evolution results in Lewmar winches being fitted to numerous sailing boats: from high-volume OEMs to some of the world's biggest superyachts.

6. Winch

Winch Selection Guide

Efficient sail handling begins with the selection of the correct winch. To help you choose your desired winch, the chart below is designed as a quick reference to match application, yacht size and winch. Cross reference your yacht size (for masthead rigs) or sail area (fractional rigs) with application, to ascertain the correct winch. You can also send your deck and sail plans to your Lewmar representative, they will be pleased to make individual recommendations. REMEMBER runner winch and mainsheet winch selection depends on the purchase system fitted, and expected loads. Dynamic sail loads can easily increase the loads dramatically. Multihulls generally have a higher righting moment than monohulls of equivalent lengths, resulting in higher dynamic loading, therefore, winch size needs to be larger – consult your Lewmar representative or rigger for further guidance.

| Sail Area | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|-----|-------------|-------------|----|-----------|---------------------|----------|--------------------|------|--------------|--------------|-----|------|---------------|------|--------------------|------|--------------------|-----------------------|--------------|------|----------------|
| | | | | | | | BOAT LENGTH OVERALL | | | | | | | | | | | | | ı | | ı | |
| APPLICATION | M FT | | -7.6 -25 | 7.6- 25- | | | 8.8-10.1 29-33 | | 10.1–10.7 33–35 | | -11.3 -37 | 11.3- 37- | | | -12.5 -41 | | 12.8-14.6 42-48 | | 14.6-16.8 48-55 | | -18.9 -62 | | 9-21.6 2-71 |
| GENOA (FT ² /M ²) | | 200 | 19 | 300 | 28 | 350 | 33 | 470 | 70 44 550 51 | | 600 | 56 750 | | 70 | 900 | 84 | 1500 139 | | 1900 177 | | 2300 | 214 | |
| SPINNAKER (FT ² /M ²) | | 300 | 28 | 400 | 37 | 600 | 56 | 800 | 74 | 1000 | 93 | 1200 | 111 | 1400 | 130 | 1600 | 149 | 3000 | 279 | 3800 | 353 | 4600 | 427 |
| main (ft²/m²) | | 120 | 11 | 150 | 14 | 180 | 17 | 210 | 20 | 230 | 21 | 260 | 24 | 300 | 28 | 350 | 33 | 750 | 70 | 875 | 81 | 1000 | 93 |
| | | | 1 | | | | | | • | | | ' | | | | | | | | | | | - |
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| APPLICATION | SIZ | E M | 6.1 20 | 7.6 25 | | 8.8 29 | 10.1 33 | | 10.7 35 | 11.3 | | 11.9 39 | 12 | | | | 5.8 i5 | | | 24. <i>1</i> 71 80 | | | |
| GENOA SHEET | 7 | | | | | | | 33 | | | | | | | | | | | | | | | |
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| | 40 | | | | | | | | | | | | | | | | | | | | | | |
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| SPINNAKER SHEET | 6 | | | | | | | | | | | | | | | | | | | | | | |
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| MAIN SHEET | 7 | | | | | | | | | | | | | | | | | | | | | | |
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| GENOA HALYARD | 6 | | | | | | | | | | | | | | | | | | | | | | |
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| MOININERS | 50 | | | | | | | | | | | | | | | | | | | | | | |
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LIGHTER SHADING REPRESENTS THE UPPER LIMIT OF THE MODEL. IF IN DOUBT, MOVE UP A MODEL.

USE AS GUIDE ONLY

The Lewmar Winch Range













Page 216 EVO® Winch

- Available from size 6 to size 80
- Easy Servicing no tools required
- Convertable to electric from size 40 up
- Choice of multiple styles and finishes
- 7 year warranty

Page 219 Electric Winches

- Purchase complete or retrofit
- Push button power control
- Features manual override

Page 226 Ocean Self-Tailing Winches

- Easy Servicing no tools required
- Convertable to electric from size 40 up
- Available in size 16 to size 65

Page 230 Hydraulic Winches

- Ideal for craft over 15m (50ft)
- Minimal space and weight
- · Quiet operation
- Features manual override

Page 232 REVO™ Winch

- Available in five sizes (40, 45, 50, 55,65)
- Uses proven winch internals so retains all the benefits of the EVO® Winch
- Most suitable for genoa sheeting

Page 238 Custom Winches

- Cutting edge performance
- Wide range of finish and style
- Superior strength
- Easy to service

Page 244 Racing Pedestal and GP Winches

- Lightweight I-beam carbon shell
- Unique belt drive ensures maximum efficiency
- Removable pedestal option for fast cruising market

Page 248 Line Management System

- Up to 25% lighter than previous models
- Up to 3 speed options

- Unique stowing system ensures low line tension
- Emergency high-load release feature

Page 251 Winch Handles

- Award-winning OneTouch offers easy onehanded removal
- Lightweight, forged construction
- PowerGrip makes initial one-handed fast cranking easy
- Corrosion resistant

6. Winch



EVO® Self-Tailing Winches

An evolution of the renowned Lewmar Ocean winch, the EVO® Self-Tailing Winch draws on a wealth of design and manufacturing experience to produce a state-of-the-art product. With a wide choice of sizes and styles, there is a versatile EVO® for any style or application.

Simple Servicing

No tools are required to service a Lewmar EVO® winch. Simply unscrew the top cap with your fingers to remove the drum and provide access to the gear train.

Multiple Styles and Finishes

EVO® winches are available in black or grey alloy and chrome bronze for the cruising sailor. Manual winches feature single speed or two speed, while size 40 to size 80 are available with electric or hydraulic operation.

Wave Spring Jaw and Feeder Arm

The integrated, investment-cast, stainless steel feeder arm completely covers the top of the winch, preventing a rope trap above the Wavespring jaws. The feeder arm position can be adjusted to smoothly feed the rope out of the jaws and into the cockpit.

Engineering Excellence

For Lewmar customers, there is no such thing as "just a winch". That's because inside every winch you will find materials developed over many years, designed using the latest techniques, and machined using CNC equipment. When we machine the winches we are looking for the maximum in efficiency, durability, and strength to weight ratio.

Electric Winches (40 and above)

Whatever sailing you do, short handed or long distance cruising, the decision to install electric winches or upgrade your existing winches with one of our conversion kits is simple.

7-Year Warranty

We are so confident about the quality of the EVO $^{\circledR}$ winch range that we are supporting it with a 7-year warranty.

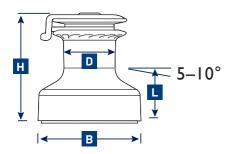




Expert Advice

When installing a winch, Lewmar recommends the winch must be mounted on a flat surface and that the rope enters the drum at an angle of 5° to 10° to the base axis of the winch. This angle can be achieved by using a base wedge when mounting the winch.

Dimensions Diagram EVO® Self-Tailing Winch



Mounting Instructions

| 15ST | 5 X M6 ($_{1}$ / $_{4}$ IN) C'SK HEAD SCREWS ON 94 MM ($_{3}$ 7 / $_{10}$ IN) PCD |
|-----------|--|
| 30ST | 5 X M6 ($_1$ / $_4$ IN) C'SK HEAD SCREWS ON 113MM ($_4$ ¹⁵ / $_{32}$ IN) PCD |
| 40ST | 5 X M6 (1 /4 IN) C'SK HEAD SCREWS ON 121MM (43/4 IN) PCD |
| 45ST | 5 X M8 ($^{5}/_{16}$ IN) C'SK HEAD SCREWS ON 136MM ($5^{11}/_{32}$ IN) PCD |
| 50ST | 5 X M8 $(^5/_{16}$ IN) C'SK HEAD SCREWS ON 150MM $(5^{29}/_{32}$ IN) PCD |
| 55ST | 6 X M8 (5 / $_16$ IN) C'SK HEAD SCREWS ON 165MM ($_{61}$ / $_2$ IN) PCD |
| 65SТ | 5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (71/4 IN) PCD |
| 70-70/3ST | $6\mathrm{X}\mathrm{M10}(_{3}/_{8}\mathrm{IN})$ C'SK HEAD SCREWS ON 241MM ($_{91}/_{2}\mathrm{IN})$ PCD |
| 80-80/3ST | 6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (91/2 IN) PCD |

EVO® Self-Tailing Winch Specifications

| PART NO | MODEL | FINISH | GE RA | | POV RA | VER TIO | W | LL | WEI | GHT | DR D | UM | BA D | SE | HEI | | LII EN | NE | | NE ZE |
|----------|-------|---------------|----------|--------|-----------|------------|------|------|------|------|---------|---------------------------------|---------|---------------------------------|--------|---------------------------------|-----------|---------------------------------|------|---|
| | | | 1ST | 2ND | 1ST | 2ND | KG | LB | KG | LB | ММ | IN | ММ | IN | ММ | IN | MM | IN | ММ | IN |
| 49515055 | 15ST | ALLOY BLACK | 2:1 | - | 15.8:1 | - | 570 | 1257 | 2.6 | 5.7 | 66.8 | 2 ⁵ / ₈ | 121 | 43/4 | 119 | 4 ¹¹ / ₁₆ | 58 | 2 ⁵ / ₁₆ | 8-12 | 5/16-1/2 |
| 49515057 | 15ST | ALLOY GREY | 2:1 | - | 15.8:1 | - | 570 | 1257 | 2.6 | 5.7 | 66.8 | 2 ⁵ /8 | 121 | 43/4 | 119 | 4 ¹¹ / ₁₆ | 58 | 2 ⁵ / ₁₆ | 8-12 | 5/16-1/2 |
| 49515056 | 15ST | CHROME BRONZE | 2:1 | - | 15.8:1 | - | 570 | 1257 | 3.9 | 8.6 | 66.8 | 2 ⁵ / ₈ | 121 | 43/4 | 119 | 4 ¹¹ / ₁₆ | 58 | 25/16 | 8-12 | 5/16-1/2 |
| 49530055 | 30ST | ALLOY BLACK | 2:1 | 4.2:1 | 13.8:1 | 29.2:1 | 685 | 1510 | 4 | 8.8 | 74 | 2 ¹⁵ / ₁₆ | 138 | 5 ⁷ /16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49530057 | 30ST | ALLOY GREY | 2:1 | 4.2:1 | 13.8:1 | 29.2:1 | 685 | 1510 | 4 | 8.8 | 74 | 2 ¹⁵ / ₁₆ | 138 | 5 ⁷ /16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49530056 | 30ST | CHROME BRONZE | 2:1 | 4.2:1 | 13.8:1 | 29.2:1 | 685 | 1510 | 5.4 | 11.9 | 74 | 2 ¹⁵ / ₁₆ | 138 | 5 ⁷ /16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49540055 | 40ST | ALLOY BLACK | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ / ₁₆ | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49540057 | 40ST | ALLOY GREY | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49540056 | 40ST | CHROME BRONZE | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 6.5 | 14.3 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49545055 | 45ST | ALLOY BLACK | 2.4:1 | 7.6:1 | 13.9:1 | 44.8:1 | 1200 | 2646 | 7.1 | 15.6 | 87 | 3 ⁷ /16 | 168 | 65/8 | 177.7 | 7 | 84 | 3 ⁵ ⁄16 | 8-14 | 5/16-9/16 |
| 49545057 | 45ST | ALLOY GREY | 2.4:1 | 7.6:1 | 13.9:1 | 44.8:1 | 1200 | 2646 | 7.1 | 15.6 | 87 | 3 ⁷ /16 | 168 | 6 ⁵ / ₈ | 177.7 | 7 | 84 | 3 ⁵ /16 | 8-14 | 5/16-9/16 |
| 49545056 | 45ST | CHROME BRONZE | 2.4:1 | 7.6:1 | 13.9:1 | 44.8:1 | 1200 | 2646 | 9.7 | 21.3 | 87 | 3 ⁷ /16 | 168 | 6 ⁵ / ₈ | 177.7 | 7 | 84 | 3 ⁵ ⁄16 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ |
| 49550055 | 50ST | ALLOY BLACK | 2.6:1 | 9:1 | 13.9:1 | 48.6:1 | 1250 | 2756 | 9 | 19.8 | 93 | 3 ⁵ /8 | 181 | 7 ¹ /8 | 197 | 73/4 | 90 | 31/2 | 8-14 | 5/16-9/16 |
| 49550057 | 50ST | ALLOY GREY | 2.6:1 | 9:1 | 13.9:1 | 48.6:1 | 1250 | 2756 | 9 | 19.8 | 93 | 3 ⁵ /8 | 181 | 7 ¹ /8 | 197 | 73/4 | 90 | 31/2 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ |
| 49550056 | 50ST | CHROME BRONZE | 2.6:1 | 9:1 | 13.9:1 | 48.6:1 | 1250 | 2756 | 12.3 | 27 | 93 | 3 ⁵ /8 | 181 | 7 ¹ /8 | 197 | 73/4 | 90 | 31/2 | 8-14 | 5/16-9/16 |
| 49555055 | 55ST | ALLOY BLACK | 2.8:1 | 11.2:1 | 13.8:1 | 54:1 | 1480 | 3263 | 12.2 | 26.9 | 105 | 4 ¹ /8 | 205 | 8 ¹ / ₁₆ | 233 | 9 ¹¹ / ₃₂ | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49555057 | 55ST | ALLOY GREY | 2.8:1 | 11.2:1 | 13.8:1 | 54:1 | 1480 | 3263 | 12.2 | 26.9 | 105 | 4 ¹ /8 | 205 | 8 ¹ / ₁₆ | 233 | 911/32 | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49555056 | 55ST | CHROME BRONZE | 2.8:1 | 11.2:1 | 13.8:1 | 54:1 | 1480 | 3263 | 18 | 39.6 | 105 | 4 ¹ /8 | 205 | 8 ¹ / ₁₆ | 233 | 9 ¹¹ / ₃₂ | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49565055 | 65ST | ALLOY BLACK | 3.1:1 | 14.8:1 | 13.4:1 | 64:1 | 1700 | 3748 | 16.6 | 36.5 | 118 | 4 ⁵ /8 | 228 | 9 | 251 | 9 ⁷ /8 | 119 | 4 ¹¹ / ₁₆ | 8-18 | 5/16-11/16 |
| 49565057 | 65ST | ALLOY GREY | 3.1:1 | 14.8:1 | 13.4:1 | 64:1 | 1700 | 3748 | 16.6 | 36.5 | 118 | 4 ⁵ /8 | 228 | 9 | 251 | 97/8 | 119 | 4 ¹¹ / ₁₆ | 8-18 | 5/16-11/16 |
| 49565056 | 65ST | CHROME BRONZE | 3.1:1 | 14.8:1 | 13.4:1 | 64:1 | 1700 | 3748 | 23.8 | 52.4 | 118 | 4 ⁵ /8 | 228 | 9 | 251 | 97/8 | 119 | 4 ¹¹ / ₁₆ | 8-18 | 5/16-11/16 |



Custom EVO® Winches

Lewmar Evo winches extend to size 80, 3 speed.

Evo® Winch Electric Conversion Kit

- Upgrade your manual winch to an electric model with the Evo upgrade kit.
- The kit contains all you need to convert to an electric winch.
- Option for sizes 40 to 50 to have the contactor pre-mounted to the motor gearbox removing any complicated wiring for a tidier and easier installation. It only requires connecting the battery and the switch supplied.

| WINCH SIZE | 12V CONVERSION KIT CONTACTOR PRE-MOUNTED | 12V CONVERSION KIT WITH SEPARATE CONTACTOR |
|------------|---|---|
| 40ST | 48540301 | 48540300 |
| 45ST | 48545301 | 48545300 |
| 50ST | 48550301 | 48550300 |
| 55ST | - | 48555300 |







Power Drive



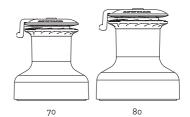
Motor Gearbox and Contactor



Circuit Breaker p234



Switch p235



Custom EVO® Self-Tailing Winch Specifications

| | 1 | | _ | | • | | | | I. | | | | | | | | | | | | | 1 |
|----------|--------|---------------|-----|---------------|------|-----|----------------|------|------|------|------|-------|---------|--------------------|---------|--------------------|-----|--------------------|-----------|-------------------------------|---------|-----------|
| PART NO | MODEL | FINISH | | GEAR RATIO | | | POWER RATIO | | w | LL | WEI | GHT | DR D | UM | BA D | SE | HEI | | LII EN | | | NE ZE |
| | | | 1ST | 2ND | 3RD | 1ST | 2ND | | KG | LB | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 49570055 | 70ST | ALLOY BLACK | | 5.8 | 18.8 | | 20.9 | 67.6 | 3000 | 6600 | 20.5 | 45.1 | 141 | 5 9/16 | 282 | 11 1/8 | 277 | 10 7/8 | 142 | 5 ⁵ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49570057 | 70ST | ALLOY GREY | | 5.8 | 18.8 | | 20.9 | 67.6 | 3000 | 6600 | 20.5 | 45.1 | 141 | 5 9/16 | 282 | 11 ¹ /8 | 277 | 10 ⁷ /8 | 142 | 5 ⁵ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49570056 | 70ST | CHROME BRONZE | | 5.8 | 18.8 | | 20.9 | 67.6 | 3000 | 6600 | 30.9 | 67.98 | 141 | 5 ⁹ /16 | 282 | 11 1/8 | 277 | 10 7/8 | 142 | 5 ⁵ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49570065 | 70/3ST | ALLOY BLACK | 2.8 | 8 | 19.3 | 9.9 | 29.1 | 69.3 | 3000 | 6600 | 33 | 72.6 | 141 | 5 ^{9/} 16 | 282 | 11 1/8 | 321 | 12 5/8 | 142 | 5 ⁵ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49570067 | 70/3ST | ALLOY GREY | 2.8 | 8 | 19.3 | 9.9 | 29.1 | 69.3 | 3000 | 6600 | 33 | 72.6 | 141 | 5 ^{9/} 16 | 282 | 11 1/8 | 321 | 12 5/8 | 142 | 5 5/8 | 12 - 22 | 1/2 - 7/8 |
| 49570066 | 70/3ST | CHROME BRONZE | 2.8 | 8 | 19.3 | 9.9 | 29.1 | 69.3 | 3000 | 6600 | 37 | 81.4 | 141 | 5 ⁹ /16 | 282 | 11 1/8 | 321 | 12 5/8 | 142 | 5 ⁵ / ₈ | 12 - 22 | 1/2 - 7/8 |
| CONTACT | 8ost | ALLOY BLACK | | 8 | 27 | | 23 | 77 | 3500 | 7700 | 39 | 85.8 | 178 | 7 | 294 | 11 ⁵ /8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |
| | 8ost | ALLOY GREY | | 8 | 27 | | 23 | 77 | 3500 | 7700 | 39 | 85.8 | 178 | 7 | 294 | 11 ⁵ /8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |
| LEWMAR | 8ost | CHROME BRONZE | | 8 | 27 | | 23 | 77 | 3500 | 7700 | 42.8 | 94.16 | 178 | 7 | 294 | 11 ⁵ /8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49580065 | 8o/3ST | ALLOY BLACK | 2.8 | 8 | 27 | 7.9 | 23 | 77 | 3500 | 7700 | 43 | 94.6 | 178 | 7 | 294 | 11 ⁵ /8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49580067 | 8o/3ST | ALLOY GREY | 2.8 | 8 | 27 | 7.9 | 23 | 77 | 3500 | 7700 | 43 | 94.6 | 178 | 7 | 294 | 11 5/8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |
| 49580066 | 8o/3ST | CHROME BRONZE | 2.8 | 8 | 27 | 7.9 | 23 | 77 | 3500 | 7700 | 44.5 | 97.9 | 178 | 7 | 294 | 11 5/8 | 321 | 12 5/8 | 174 | 6 ⁷ / ₈ | 12 - 22 | 1/2 - 7/8 |



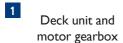
EVO® Electric Winches

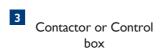
A Self-Tailing EVO® Winch that works at the push of a button is exactly what you will find with Lewmar's electric winch range. Whether you buy an electrically-operated winch complete or retrofit the compact electric motor/controller unit, the electric EVO® provides improved sail control.

- Push button power
- Quiet operation
- Manual override
- Easy to install
- Featuring powerful series wound motors
- Choice of two levels of control: E Series or Electric Load Sensing (ELS)

EVO® Electric Winch Kit

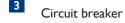
The kit contains all you need to install your electric winch.

















EVO® Electric Winch Kits

| PART N | UMBER | DESCRIPTION |
|----------|----------|--|
| 12 VOLTS | 24 VOLTS | |
| 49540219 | - | 40EST ALLOY BLACK ELECTRIC WINCH KIT |
| 49540218 | - | 40EST CHROME BRONZE ELECTRIC WINCH KIT |
| 49540217 | - | 40EST ALLOY GREY ELECTRIC WINCH KIT |
| 49545219 | - | 45EST ALLOY BLACK ELECTRIC WINCH KIT |
| 49545218 | - | 45EST CHROME BRONZE ELECTRIC WINCH KIT |
| 49545217 | - | 45EST ALLOY GREY ELECTRIC WINCH KIT |
| 49550219 | - | 50EST ALLOY BLACK ELECTRIC WINCH KIT |
| 49550218 | - | 50EST CHROME BRONZE ELECTRIC WINCH KIT |
| 49550217 | - | 50EST ALLOY GREY ELECTRIC WINCH KIT |
| 49555210 | 49555230 | 55EST ALLOY BLACK ELECTRIC WINCH KIT |
| 49555201 | 49555221 | 55EST CHROME BRONZE ELECTRIC WINCH KIT |
| 49555200 | 49555220 | 55EST ALLOY GREY ELECTRIC WINCH KIT |
| 49565210 | 49565230 | 65EST ALLOY BLACK ELECTRIC WINCH KIT |
| 49565201 | 49565221 | 65EST CHROME BRONZE ELECTRIC WINCH KIT |
| 49565200 | 49565220 | 65EST ALLOY GREY ELECTRIC WINCH KIT |
| - | 49570230 | 70EST ALLOY BLACK ELECTRIC WINCH KIT |
| - | 49570221 | 70EST CHROME BRONZE ELECTRIC WINCH KIT |
| - | 49570220 | 70EST ALLOY GREY ELECTRIC WINCH KIT |
| - | 49570211 | 70/3EST ALLOY BLACK ELECTRIC WINCH KIT |
| - | 49570212 | 70/3EST CHROME BRONZE ELECTRIC WINCH KIT |
| - | 49570213 | 70/3EST ALLOY GREY ELECTRIC WINCH KIT |
| - | 49580230 | 80EST ALLOY BLACK ELECTRIC WINCH KIT |
| - | 49580221 | 80EST CHROME BRONZE ELECTRIC WINCH KIT |
| - | 49580220 | 80EST ALLOY GREY ELECTRIC WINCH KIT |
| - | 49580211 | 80/3EST ALLOY BLACK ELECTRIC WINCH KIT |
| - | 49580212 | 80/3EST CHROME BRONZE ELECTRIC WINCH KIT |
| - | 49580213 | 80/3EST ALLOY GREY ELECTRIC WINCH KIT |

Specify Your Own Electric Winch

- 1 Deck Unit
- 2 Motor Gearbox
- 3 Contactor/Control Box
- 4 Accessories







Circuit Breaker p234



Switch p235

1 Electric Winch Deck Unit

Electric Winch

| PART NUMBER | MODEL | FINISH | WEI | GHT |
|-------------|--------|-------------|------|------|
| | | | KG | LB |
| 48540210 | 40 EST | ALLOY BLACK | 17.8 | 39.3 |
| 48540201 | 40 EST | CHROME | 19.5 | 43.0 |
| 48540200 | 40 EST | ALLOY GREY | 17.8 | 39.3 |
| 48545210 | 45 EST | ALLOY BLACK | 22.1 | 48.6 |
| 48545201 | 45 EST | CHROME | 24.6 | 54.1 |
| 48545200 | 45 EST | ALLOY GREY | 22.1 | 48.6 |
| 48550210 | 50 EST | ALLOY BLACK | 24.7 | 54.3 |
| 48550201 | 50 EST | CHROME | 28.1 | 61.8 |
| 48550200 | 50 EST | ALLOY GREY | 24.7 | 54-3 |
| 48555210 | 55 EST | ALLOY BLACK | 29.0 | 63.8 |
| 48555201 | 55 EST | CHROME | 34.8 | 76.5 |
| 48555200 | 55 EST | ALLOY GREY | 29.0 | 63.8 |
| 48565210 | 65 EST | ALLOY BLACK | 33.6 | 73.9 |
| 48565201 | 65 EST | CHROME | 40.8 | 89.7 |
| 48565200 | 65 EST | ALLOY GREY | 33.6 | 73.9 |
| | | | | |

Custom Electric Winch

| PART NUMBER | MODEL | FINISH | WEI | GHT |
|-------------|----------|-------------|------|-------|
| | | | KG | LB |
| 48570210 | 70 EST | ALLOY BLACK | 42.0 | 92.6 |
| 48570201 | 70 EST | CHROME | 48.8 | 107.6 |
| 48570200 | 70 EST | ALLOY GREY | 42.0 | 92.6 |
| 48570208 | 70/3 EST | ALLOY BLACK | 48.0 | 105.8 |
| 48570207 | 70/3 EST | CHROME | 54.8 | 120.8 |
| 48570206 | 70/3 EST | ALLOY GREY | 48.0 | 105.8 |
| 48580210 | 80 EST | ALLOY BLACK | 49.3 | 108.7 |
| 48580201 | 80 EST | CHROME | 55.3 | 121.9 |
| 48580200 | 80 EST | ALLOY GREY | 49.3 | 108.7 |
| 48580208 | 80/3 EST | ALLOY BLACK | 51.3 | 113.1 |
| 48580207 | 80/3 EST | CHROME | 57.3 | 126.3 |
| 48580206 | 80/3 EST | ALLOY GREY | 51.3 | 113.1 |

NOTES: WEIGHTS SHOWN ABOVE INCLUDES THE WEIGHT OF MOTOR GEARBOX $\ensuremath{\mathtt{@}}$ Control box.

2 Motor Gearbox

| PART NUMBER | DESCRIPTION | MOTOR (Watt) | 40ST | 45ST | 50ST | 55ST | 655т | 70-70/3 | 80-80/3 |
|----------------|-----------------------|-----------------|------|------|------|------|------|---------|---------|
| 48000116 | 40-50 12V M/GBOX ASSY | 700 | • | | | | | | |
| 48000117 | 40-50 24V M/GBOX ASSY | 900 | • | | | | | | |
| 48000075 | 55-65 12V M/GBOX ASSY | 1600 | | | | • | • | | |
| 48000076 | 55-65 24V M/GBOX ASSY | 2000 | | | | • | | | |
| 48000077 | 70-80 12V M/GBOX ASSY | 1600 | | | | | | • | |
| 48000078 | 70-80 24V M/GBOX ASSY | 2000 | | | | | | | |



Electric motor including contactor

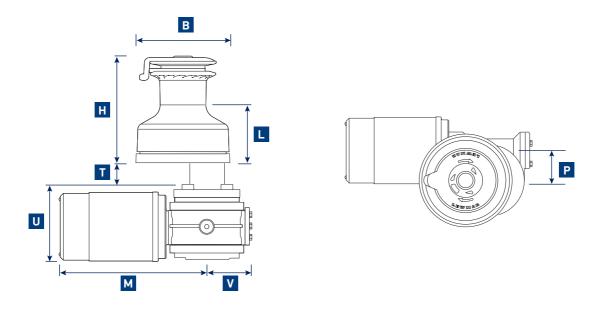
Lewmar can also supply motor gearboxes with the E-series contactor pre-mounted. This convenient solution removes any complicated wiring for an easier installation. The complete wiring is reduced to connecting the battery and the switch.

| PART NUMBER | DESCRIPTION | MOTOR (Watt) | 40ST | 45ST | 50ST |
|----------------|----------------------|-----------------|------|------|------|
| 48000211 | 12V PRE-WIRED M/GBOX | 700 | | | • |
| 48000212 | 24V PRE-WIRED M/GBOX | 900 | | | • |



Electric Winch Dimensions

When installing a winch, Lewmar recommends the winch be mounted on a level surface and that the rope enters the drum at an angle of 5° to 10° to the base axis of the winch. This angle can be achieved by using a base wedge when mounting the winch.



| WINCH SIZE | HEIGHT | | LINE E | | N | 1 | F | • | 1 | Γ | U | J | ١ | / | BASI | B DIA |
|---------------|--------|----------------------------------|--------|---------------------------------|-----|---------------------------------|----|---------|------|---------------------------------|-------|-------|------|---------------------------------|------|---------------------------------|
| | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 40EST | 175 | 6 %10 | 95 | 3 49/64 | 239 | 9 ²⁵ / ₆₄ | 50 | 1 31/32 | 34.4 | 1 23/64 | 120.7 | 2 3/4 | 72.5 | 2 ⁵⁵ / ₆₄ | 154 | 6 1/16 |
| 45EST | 194 | 7 5/8 | 100 | 3 ⁶¹ / ₆₄ | 239 | 9 ²⁵ /64 | 50 | 1 31/32 | 64.4 | 2 ¹⁷ / ₃₂ | 120.7 | 2 3/4 | 72.5 | 2 ⁵⁵ /64 | 174 | 6 ⁵⁵ / ₆₄ |
| 50EST | 247 | 9 ² / ₃ | 105 | 4 9/64 | 239 | 9 ²⁵ / ₆₄ | 50 | 1 31/32 | 64.4 | 2 17/32 | 120.7 | 2 3/4 | 72.5 | 2 55/64 | 186 | 7 21/64 |
| 55EST | 258 | 10 1/8 | 136 | 5 ³ /8 | 290 | 11 7/16 | 62 | 2 1/16 | 59.5 | 2 ⁵ ⁄16 | 160 | 6 1/4 | 80 | 3 1/8 | 209 | 8 1/4 |
| 65EST | 274 | 10 3/4 | 142 | 5 ⁹ ⁄16 | 290 | 11 7/16 | 62 | 2 1/16 | 59.5 | 2 ⁵ ⁄ ₁₆ | 160 | 6 1/4 | 80 | 3 1/8 | 234 | 9 1/4 |
| 70EST | 274 | 10 ¹³ / ₁₆ | 142 | 5 ⁵ /8 | 290 | 11 7/16 | 62 | 2 1/16 | 67.5 | 2 ¹¹ / ₁₆ | 160 | 6 1/4 | 80 | 3 1/8 | 282 | 11 1/8 |
| 70/3EST | 319 | 12 1/16 | 186 | 7 5/16 | 290 | 11 7/16 | 62 | 2 1/16 | 67.5 | 2 11/16 | 160 | 6 1/4 | 80 | 3 1/8 | 294 | 11 1/16 |
| 80EST | 320 | 12 10/16 | 174 | 6 % | 290 | 11 7/16 | 62 | 2 1/16 | 67.5 | 2 11/16 | 160 | 6 1/4 | 80 | 3 1/8 | 294 | 11 1/16 |
| 80/3EST | 320 | 12 10/16 | 174 | 6 % | 290 | 11 7/16 | 62 | 2 1/16 | 67.5 | 2 11/16 | 160 | 6 1/4 | 80 | 3 1/8 | 294 | 11 %16 |
| 90EST | 327 | 12 1/8 | 160 | 6 1/4 | 290 | 11 7/16 | 62 | 2 1/16 | - | - | - | - | - | - | 326 | 12 3/4 |

Mounting Instructions

| 40EST | 5 X M6 (1/2 IN) C'SK HEAD SCREWS ON 121MM (4 $^3\!\!/_4$ IN) PCD |
|---------|---|
| 45EST | 5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (5 $^{11}\!\!/_{32}$ IN) PCD |
| 50EST | 6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 150MM (5 $^{29}\!\!/_{32}$ IN) PCD |
| 55EST | 6 x m8 (5/16 in) c'sk head screws on 165mm (6 $^1\!\!/_2$ in) PCD |
| 65EST | 5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (7 $^1\!\!/_{\!\!4}$ IN) PCD |
| 70EST | 6 x m10 (3/8 in) c'sk head screws on 241mm (9 $^{1}\!\!/_{\!2}$ in) PCD |
| 70/3EST | 6 x m10 (3/8 IN) c'sk HEAD SCREWS ON 241MM (9 $^1\!\!/_2$ IN) PCD |
| 80EST | 6 x m10 (3/8 IN) c'sk HEAD SCREWS ON 241MM (9 $^1\!\!/_2$ IN) PCD |
| 80/3EST | 6 x m10 (3/8 in) c'sk head screws on 241mm (9 $^{1}\!\!/_{\!2}$ in) PCD |
| 90/3EST | 8 x m10 (3/8 in) c'sk head screws on 270mm (10 $^{5}\!\!/_{8}$ in) PCD |

NOTE: NOT ALL HOLES ARE SYMMETRICAL ON ALL MODELS

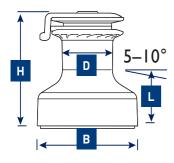


EVO® Race Winches

The new EVO® Race winches combine EVO® architecture with all-new top components to offer a sleek, race look. Significant weight savings are made through the use of an aluminium drum.

- No tools required for servicing
- Cast aluminium feeder arm
- Black anodised drum
- Carbon fibre top inlay feature
- Silver trim band and white decals

Dimensions Diagram EVO® Race Winch





EVO® Race Self-Tailing Winch Specifications

| PART NO | SIZE | | AR TIO | POV RA | | w | WLL | | GHT | DR D | UM | BA D | .SE | HEI | | L LINE ENTRY | | | NE ZE |
|----------|------|-------|-----------|-----------|--------|------|------|------|------|---------|---------------------------------|---------|---------------------------------|--------|---------------------------------|--------------------|---------------------------------|------|-----------|
| | | 1ST | 2ND | 1ST | 2ND | KG | LB | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 49730055 | 30ST | 2:1 | 4.2:1 | 13.8:1 | 29.2:1 | 685 | 1510 | 4 | 8.8 | 74 | 2 ¹⁵ / ₁₆ | 138 | 5 ⁷ /16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49740055 | 40ST | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ / ₁₆ | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49745055 | 45ST | 2.4:1 | 7.6:1 | 13.9:1 | 44.8:1 | 1200 | 2646 | 7.1 | 15.6 | 87 | 3 ⁷ /16 | 168 | 65/8 | 177.7 | 7 | 84 | 3 ⁵ ⁄16 | 8-14 | 5/16-9/16 |
| 49750055 | 50ST | 2.6:1 | 9:1 | 13.9:1 | 48.6:1 | 1250 | 2756 | 9 | 19.8 | 93 | 3 ⁵ /8 | 181 | 7 ¹ /8 | 197 | 73/4 | 90 | 31/2 | 8-14 | 5/16-9/16 |
| 49755055 | 55ST | 2.8:1 | 11.2:1 | 13.8:1 | 54:1 | 1480 | 3263 | 12.2 | 26.9 | 105 | 4 ¹ /8 | 205 | 8 ¹ / ₁₆ | 233 | 9 ¹¹ / ₃₂ | 115 | 41/2 | 8-16 | 5/16-5/8 |



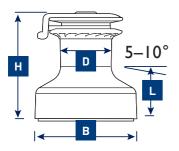
Lewmar EVO® Race+™ Winch

Lewmar's EVO® Race+™ winches use a lightweight cast aluminium base stem and machined aluminium upper stem, together with other advanced material choices, to offer significant weight savings over standard EVO® winches.

- Lightweight centre stem
- Lightened main spindle
- Cast aluminium feeder arm Silver trim stripe
- Composite bearing technology
- "No tools" servicing
- Carbon fibre inlay
- White pad-printed decals
- Black anodised drum



Dimensions Diagram EVO® Race+™ Winch



EVO[®] Race+™ Self-Tailing Winch Specifications

| PART | NO | SIZE | GE RA | AR TIO | POV RA | VER TIO | W | LL | WEI | GHT | DR D | UM IA | | SE IA | HEI | | LII EN | NE TRY | | NE ZE |
|-------|------|------|----------|-----------|-----------|------------|------|------|-----|------|---------|---------------------------------|-----|--------------------------------|-------|---------------------------------|-----------|--------------------|------|-----------|
| | | | 1ST | 2ND | 1ST | 2ND | KG | LB | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 49940 | 0055 | 40ST | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 3.6 | 7.9 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49945 | 5055 | 45ST | 2.4:1 | 7.6:1 | 13.9:1 | 44.8:1 | 1200 | 2646 | 4.8 | 10.5 | 87 | 3 ⁷ /16 | 168 | 6 ⁵ / ₈ | 177.7 | 7 | 84 | 3 ⁵ ⁄16 | 8-14 | 5/16-9/16 |
| 49950 | 0055 | 50ST | 2.6:1 | 9:1 | 13.9:1 | 48.6:1 | 1250 | 2756 | 6.3 | 13.9 | 93 | 3 ⁵ /8 | 181 | 7 ¹ /8 | 197 | 73/4 | 90 | 31/2 | 8-14 | 5/16-9/16 |
| 49955 | 5055 | 55ST | 2.8:1 | 11.2:1 | 13.8:1 | 54:1 | 1480 | 3263 | 8.3 | 18.3 | 105 | 4 1/8 | 205 | 8 ¹ / ₁₆ | 250 | 9 ¹³ / ₁₆ | 115 | 4 1/2 | 8-16 | 5/16-5/8 |

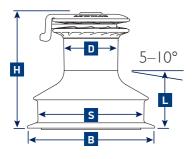


EVO® Speed Ring Winch

EVO® Speed Ring racing winches offer all the features of the EVO® Range with the additional benefit of two drum diameters. The larger drum offers increased line speeds associated with fast asymmetric spinnaker gybes or hoists while the standard size drum allows fine tuning, removing the need for additional winches.

- Easy servicing no tools required
- Available in black or grey alloy finish
- Features two drum diameters for greater control

Dimensions Diagram EVO® Speed Ring Winch





EVO® Speed Ring Winch Specifications

| PART NO | SIZE | FINISH | GE RA | AR TIO | POV RA | VER TIO | | D RING R RATIO | W | LL | WEI | GHT | DR DI | UM IA | SPEEL D | D RING | BA Di | SE IA | HEIG | I GHT | LII EN | NE TRY | | NE ZE |
|----------|------|--------|----------|-----------|-----------|------------|-------|-------------------|------|------|-----|------|----------|---------------------------------|---------|-------------------------------|----------|---------------------------------|-------|-------------------------------|-----------|--------------------------------|------|----------|
| | | | 1ST | 2ND | 1ST | 2ND | 1ST | 2ND | KG | LB | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 49540085 | 40 | BLACK | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 6.6:1 | 20.3:1 | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 145.5 | 5 ³ / ₄ | 148 | 5 ¹³ / ₁₆ | 158.5 | 61/4 | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49540087 | 40 | GREY | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 6.6:1 | 20.3:1 | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 145.5 | 5 ³ / ₄ | 148 | 5 ¹³ / ₁₆ | 158.5 | 6 ¹ / ₄ | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49545085 | 45 | BLACK | 2.36:1 | 8.0:1 | 13.86:1 | 46.8:1 | 7:1 | 22.6:1 | 1200 | 2643 | 7.6 | 16.7 | 86.8 | 3 ⁷ /16 | 170.5 | 63/4 | 205 | 8 | 177.5 | 7 | 84.5 | 3 ⁵ / ₁₆ | 8-12 | 5/16-1/2 |
| 49545087 | 45 | GREY | 2.36:1 | 8.0:1 | 13.86:1 | 46.8:1 | 7:1 | 22.6:1 | 1200 | 2643 | 7.6 | 16.7 | 86.8 | 3 ⁷ /16 | 170.5 | 63/4 | 205 | 8 | 177.5 | 7 | 84.5 | 3 ⁵ / ₁₆ | 8-12 | 5/16-1/2 |

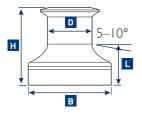


EVO® Sport Winch

The EVO® Sport complements the EVO® Winch Range. Best suited for sport boats requiring constant trimming, and where weight consideration is a premium. The EVO® Sport is also suitable as a mast mounted winch.

- Architecture based on self tailing EVO® Winch
- Tool-free servicing
- Size 30 and 40 can be converted into an EVO® Self tailing winch retrospectively
- Size 40 convertible to electric
- Choice of finishes: Black alloy or Chrome bronze
- Available in size 6 to size 40

Dimensions Diagram EVO® Sport Winch





EVO® Sport Winch Specifications

| PART NO | MODEL | FINISH | GE RA | | | VER TIO | W KG | LL _{LB} | WEI KG | GHT LB | DR D MM | UM | BA D MM | SE | HEIG | | LII EN ⁻ | ΝE | MOUNTING INSTRUCTIONS |
|----------|-------|-------------|----------|-------|--------|------------|---------|-----------------------|-----------|-----------|---------------|---------------------------------|---------------|---------------------|--------|-------|------------------------|---------------------------------|--|
| 49006075 | 6 | ALLOY BLACK | 1:1 | - | 6.8:1 | - | 341 | 752 | 0.5 | 1.1 | 59 | 25/16 | 94 | 3 ¹¹ /16 | 83 | 31/4 | 35.5 | 13/8 | 4 X M6 (1/4 IN) C'SK HEAD SCREWS ON |
| 19006100 | 6 | CHROME | 1:1 | - | 6.8:1 | - | 341 | 752 | 1.1 | 2.4 | 59 | 25/16 | 94 | 3 ¹¹ /16 | 83 | 31/4 | 35.5 | 13/8 | 66мм (2 ¹⁹ / ₃₂ IN) PCD |
| 49507075 | 7 | ALLOY BLACK | 1:1 | - | 7.9:1 | - | 341 | 752 | 0.8 | 1.8 | 65 | 29/16 | 108 | 41/4 | 102 | 4 | 40 | 19/16 | 5 X M6 (1/4 IN) C'SK HEAD SCREWS ON |
| 49507076 | 7 | CHROME | 1:1 | - | 7.9:1 | - | 341 | 752 | 1.7 | 3.7 | 65 | 29/16 | 108 | 41/4 | 102 | 4 | 40 | 19/16 | 8омм (3 ⁵ / ₃₂ IN) РСD |
| 49508075 | 8 | ALLOY BLACK | 1:1 | - | 7.9:1 | - | 455 | 1003 | 1.4 | 3.1 | 65 | 29/16 | 108 | 41/4 | 103 | 41/16 | 40 | 19/16 | 5 X M6 (1/4 IN) C'SK HEAD SCREWS ON |
| 49508076 | 8 | CHROME | 1:1 | - | 7.9:1 | - | 455 | 1003 | 2.3 | 5.1 | 65 | 29/16 | 108 | 41/4 | 103 | 41/16 | 40 | 19/16 | 8омм (3 ⁵ / ₃₂ IN) РСD |
| 49516075 | 15 | ALLOY BLACK | 1:1 | 2:1 | 7.9:1 | 16:1 | 570 | 1257 | 2.1 | 4.6 | 67 | 25/8 | 120 | 43/4 | 112 | 47/16 | 55 | 23/16 | 5 X M6 (1/4 IN) C'SK HEAD SCREWS ON |
| 49516076 | 15 | CHROME | 1:1 | 2:1 | 7.9:1 | 16:1 | 570 | 1257 | 3.2 | 7.0 | 67 | 25/8 | 120 | 43/4 | 112 | 47/16 | 55 | 23/16 | 94MM (3 ¹¹ / ₁₆ IN) PCD |
| 49530075 | 30 | ALLOY BLACK | 2:1 | 4.2:1 | 13.8:1 | 29.21 | 685 | 1510 | 3.9 | 8.6 | 74 | 2 ¹⁵ / ₁₆ | 138 | 57/16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 5 X M6 (1/2 IN) C'SK HEAD SCREWS ON |
| 49530076 | 30 | CHROME | 2:1 | 4.2:1 | 13.8:1 | 29.21 | 685 | 1510 | 5.8 | 12.8 | 74 | 2 ¹⁵ / ₁₆ | 138 | 57/16 | 145.85 | 53/4 | 69 | 2 ¹¹ / ₁₆ | 113MM (4 ¹⁵ / ₃₂ IN) PCD |
| 49540075 | 40 | ALLOY BLACK | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 5.5 | 12.1 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 158.5 | 61/4 | 79 | 31/8 | 5 X M6 (1/2 IN) C'SK HEAD SCREWS ON |
| 49540076 | 40 | CHROME | 1.9:1 | 5.8:1 | 13.2:1 | 40.2:1 | 795 | 1753 | 7 | 15.4 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 158.5 | 61/4 | 79 | 31/8 | 121MM (4 ³ / ₄ IN) PCD |



Ocean Self-Tailing Winches

Lewmar's Ocean winch range is the most popular winch ever made. Its styling still attracts boat builders looking for a classic look, or boat owners looking to upgrade or replace their existing winches.

- Easy Servicing no tools required
- Bronze finish also available contact your retailer
- Convertable to electric from size 40 upwards
- Available in Size 16 to Size 65
- Solid construction respected by boat builders and sailors for generations

Ocean Self-Tailing Winch Specifications

| PART | MODEL | FINISH | GE | AR RAT | 10 | POV | WER RA | TIO | W | LL | WEI | GHT | DRUI | M DIA | BASI | EDIA | HEI | GHT | ENTR' | Y LINE | LINE | SIZE |
|----------|--------|---------------|-------|--------|--------|--------|--------|--------|------|------|-------|------|------|---------------------------------|------|---------------------------------|-------|----------------------------------|-------|---------------------------------|-------|--|
| NO | | | 1ST | 2ND | 3RD | 1ST | 2ND | 3RD | KG | LB | KGW | LB | мм | IN | ММ | IN | мм | IN | ММ | IN | мм | IN |
| 49016000 | 16ST | ALLOY GREY | 2:1 | - | | 15.8:1 | - | | 570 | 1257 | 2.9 | 6.4 | 65.7 | 2 ⁹ / ₁₆ | 121 | 43/4 | 145.5 | 53/4 | 58 | 25/16 | 8-12 | 5/16-1/2 |
| 49016001 | 16ST | CHROME BRONZE | 2:1 | - | | 15.8:1 | - | | 570 | 1257 | 3.9 | 8.6 | 65.7 | 2 ⁹ / ₁₆ | 121 | 43/4 | 145.5 | 5 ³ / ₄ | 58 | 25/16 | 8-12 | 5/16-1/2 |
| 49030000 | 30ST | ALLOY GREY | 2:1 | 4.2:1 | | 13.8:1 | 29.2:1 | | 685 | 1510 | 4.2 | 9.2 | 74 | 2 ¹⁵ / ₁₆ | 138 | 57/16 | 160.5 | 6 ⁵ ⁄ ₁₆ | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49030001 | 30ST | CHROME BRONZE | 2:1 | 4.2:1 | | 13.8:1 | 29.2:1 | | 685 | 1510 | 5.6 | 12.3 | 74 | 2 ¹⁵ / ₁₆ | 138 | 57/16 | 160.5 | 6 ⁵ ⁄ ₁₆ | 69 | 2 ¹¹ / ₁₆ | 8-12 | 5/16-1/2 |
| 49040055 | 40ST | ALLOY GREY | 1.9:1 | 5.8:1 | | 13.2:1 | 40.2:1 | | 795 | 1753 | 4.9 | 10.7 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ / ₁₆ | 173 | 6 ¹³ / ₁₆ | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49040056 | 40ST | CHROME BRONZE | 1.9:1 | 5.8:1 | | 13.2:1 | 40.2:1 | | 795 | 1753 | 6.5 | 14.3 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 173 | 6 ¹³ / ₁₆ | 79 | 31/8 | 8-12 | 5/16-1/2 |
| 49046055 | 46ST | ALLOY GREY | 2.4:1 | 7.6:1 | | 13.9:1 | 44.8:1 | | 1200 | 2646 | 7.2 | 15.8 | 87 | 37/16 | 168 | 6 ⁵ / ₈ | 192 | 7 ⁹ ⁄16 | 84 | 3 ⁵ /16 | 8-14 | 5/16-9/16 |
| 49046056 | 46ST | CHROME BRONZE | 2.4:1 | 7.6:1 | | 13.9:1 | 44.8:1 | | 1200 | 2646 | 9.7 | 21.3 | 87 | 37/16 | 168 | 65/8 | 192 | 7 ⁹ ⁄16 | 84 | 35/16 | 8-14 | 5/16-9/16 |
| 49048055 | 48ST | ALLOY GREY | 2.6:1 | 9:1 | | 13.9:1 | 48.6:1 | | 1250 | 2756 | 8.8 | 19.4 | 93 | 35/8 | 181 | 71//8 | 208 | 8 ³ / ₁₆ | 86 | 33/8 | 8-14 | 5/16-9/16 |
| 49048056 | 48ST | CHROME BRONZE | 2.6:1 | 9:1 | | 13.9:1 | 48.6:1 | | 1250 | 2756 | 12.1 | 26.7 | 93 | 35/8 | 181 | 71/8 | 208 | 8 ³ ⁄ ₁₆ | 86 | 33/8 | 8-14 | 5/16-9/16 |
| 49050000 | 50ST | ALLOY GREY | 2.8:1 | 10.5:1 | | 13.8:1 | 50.6:1 | | 1250 | 2756 | 11.3 | 24.9 | 105 | 41/8 | 200 | 7 1/8 | 238 | 93/8 | 106 | 4 ³ /16 | 8-16 | 5/16-5/8 |
| 49050001 | 50ST | CHROME BRONZE | 2.8:1 | 10.5:1 | | 13.8:1 | 50.6:1 | | 1250 | 2756 | 16.3 | 35.9 | 105 | 41/8 | 200 | 7 1/8 | 238 | 93/8 | 106 | 4 ³ /16 | 8-16 | 5/16-5/8 |
| 49054000 | 54ST | ALLOY GREY | 2.8:1 | 11.2:1 | | 13.8:1 | 54:1 | | 1480 | 3263 | 12.0 | 26.4 | 105 | 41/8 | 205 | 81/16 | 250 | 9% | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49054001 | 54ST | CHROME BRONZE | 2.8:1 | 11.2:1 | | 13.8:1 | 54:1 | | 1480 | 3263 | 17.0 | 37.5 | 105 | 41/8 | 205 | 81/16 | 250 | 9% | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49058000 | 58ST | ALLOY GREY | 3.1:1 | 13.5:1 | | 13.5:1 | 58.1:1 | | 1600 | 3524 | 14.3 | 31.5 | 118 | 45/8 | 228 | 9 | 266 | 101/2 | 118.5 | 4 ¹¹ / ₁₆ | 8-18 | ⁵ / ₁₆ -11/ ₁₆ |
| 49058001 | 58ST | CHROME BRONZE | 3.1:1 | 13.5:1 | | 13.5:1 | 58.1:1 | | 1600 | 3524 | 20.8 | 45.8 | 118 | 45/8 | 228 | 9 | 266 | 101/2 | 118.5 | 4 ¹¹ / ₁₆ | 8-18 | 5/16-11/16 |
| 49065000 | 65ST | ALLOY GREY | 3.1:1 | 15.3:1 | | 13.4:1 | 66:1 | | 1700 | 3748 | 16.6 | 36.5 | 118 | 45/8 | 231 | 91/8 | 271 | 10 ¹¹ / ₁₆ | 121.5 | 4 ¹³ / ₁₆ | 8-18 | ⁵ / ₁₆ - ¹¹ / ₁₆ |
| 49065001 | 65ST | CHROME BRONZE | 3.1:1 | 15.3:1 | | 13.4:1 | 66:1 | | 1700 | 3748 | 23.8 | 52.4 | 118 | 4 ⁵ /8 | 231 | 91/8 | 271 | 10 ¹¹ / ₁₆ | 121.5 | 4 ¹³ /16 | 8-18 | ⁵ / ₁₆ -11/ ₁₆ |
| 49066000 | 68sT | ALLOY GREY | 5.8:1 | 18.8:1 | | 20.9:1 | 67.6:1 | | 3000 | 6614 | 20 | 44 | 141 | 5 ⁹ ⁄16 | 282 | 111/8 | 302 | 117/8 | 142 | 55/8 | 10-20 | 3/8-3/4 |
| 49066001 | 68sT | CHROME BRONZE | 5.8:1 | 18.8:1 | | 20.9:1 | 67.6:1 | | 3000 | 6614 | 26.8 | 59 | 141 | 5 ⁹ ⁄16 | 282 | 111/8 | 302 | 117/8 | 142 | 55/8 | 10-20 | 3/8-3/4 |
| 49066005 | 68st 3 | ALLOY GREY | 2.8:1 | 8:1 | 19.3:1 | 9.9:1 | 29:1 | 69.3:1 | 3000 | 6614 | `22.0 | 48.4 | 141 | 5 ⁹ ⁄16 | 294 | 115/8 | 348 | 133/4 | 186.4 | 73/8 | 10-20 | 3/8-3/4 |
| 49066006 | 68st 3 | CHROME BRONZE | 2.8:1 | 8:1 | 19.3:1 | 9.9:1 | 29:1 | 69.3:1 | 3000 | 6614 | 28.8 | 63.4 | 141 | 5 ⁹ ⁄16 | 294 | 115/8 | 348 | 133/4 | 186.4 | 73/8 | 10-20 | 3/8-3/4 |
| 49077000 | 77ST | ALLOY GREY | 8:1 | 27:1 | | 23:1 | 77:1 | | 3500 | 7716 | 23.8 | 52.4 | 178 | 7 | 294 | 115/8 | 348 | 133/4 | 174 | 67/8 | 12-22 | 1/2-7/8 |
| 49077001 | 77ST | CHROME BRONZE | 8:1 | 27:1 | | 23:1 | 77:1 | | 3500 | 7716 | 30.6 | 67.3 | 178 | 7 | 294 | 115/8 | 348 | 133/4 | 174 | 67/8 | 12-22 | 1/2-7/8 |
| 49077005 | 77ST 3 | ALLOY GREY | 2.8:1 | 8:1 | 27:1 | 7.9:1 | 23:1 | 77:1 | 3500 | 7716 | 25.8 | 56.8 | 178 | 7 | 294 | 115/8 | 348 | 133/4 | 174 | 67/8 | 12-22 | 1/2-7/8 |
| 49077006 | 77ST 3 | CHROME BRONZE | 2.8:1 | 8:1 | 27:1 | 7.9:1 | 23:1 | 77:1 | 3500 | 7716 | 32.8 | 72.2 | 178 | 7 | 294 | 115/8 | 348 | 133/4 | 174 | 67/8 | 12-22 | 1/2-7/8 |



Mounting Instructions

| OCEAN 16ST | 5 X M6 ($^{1}\!/_{\!4}$ IN) C'SK HEAD SCREWS ON 94 MM ($3^{11}\!/_{16}$ IN) PCD |
|------------|---|
| OCEAN 30ST | 5 X M6 ($^{1}\!/_{\!4}$ IN) C'SK HEAD SCREWS ON 113MM ($^{15}\!/_{\!32}$ IN) PCD |
| OCEAN 40ST | 5 X M6 (1 /4 IN) C'SK HEAD SCREWS ON 121MM (4 3 /4 IN) PCD |
| OCEAN 46ST | 5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (511/32 IN) PCD |

| OCEAN 48ST | 5 X M8 (5 / $_{16}$ IN) C'SK HEAD SCREWS ON 150MM (5^{29} / $_{32}$ IN) PCD |
|---------------|--|
| OCEAN 50-54ST | $6\mathrm{x}$ M8 $(^5/_{16}$ IN) C'SK HEAD SCREWS ON 165MM $(6^1/_2$ IN) PCD |
| OCEAN 58-65ST | 5 X M10 $(^3/_8$ IN) C'SK HEAD SCREWS ON 184MM $(7^1/_4$ IN) PCD |



Custom Options

Custom engraving option available on the upper crown for special one-off projects.

Please contact custom@lewmar.com for more details

Ocean Winch Electric Conversion Kit

Upgrade your manual winch to an electric model with the Ocean upgrade kit. The kit contains all you need to convert your existing manual winch to an electric powered version.

| PART NUMBER | DESCRIPTION |
|-------------|-------------------------------|
| 48040300 | 40ST 12V 'E' CONVERSION KIT |
| 48046300 | 46ST 12V 'E' CONVERSION KIT |
| 48048300 | 48ST 12V 'E' CONVERSION KIT |
| 48050300 | 50ST 12V 'ELS' CONVERSION KIT |
| 48054300 | 54ST 12V 'ELS' CONVERSION KIT |
| 48058300 | 58ST 12V 'ELS' CONVERSION KIT |
| 48065300 | 65ST 12V 'ELS' CONVERSION KIT |

Kit includes



Drive



Motor Gearbox



Contactor



Circuit Breaker



Switch



High Performance Winch Range

40-65 EVO® High Performance Electric Range

With sailboat market trends focussed on easier sail handling and operation, there has been a significant increase in the quantity of electric winches being used on board.

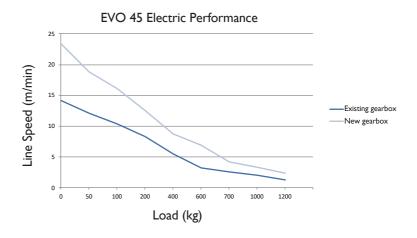
Lewmar have developed a new, high performance solution, combining our EVO® deck unit with an optimised and upgraded motor gearbox package. In its high performance configuration, the EVO® can achieve an increase of up to 35% in line speed with up to 20% higher max pull.

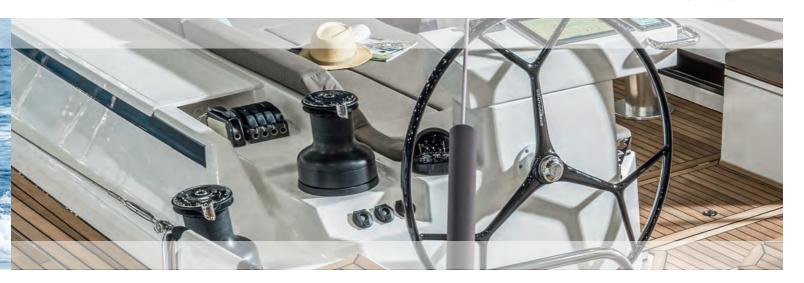
The winch range is available in a variety of finishes including aluminium and chrome designs, offering tool-free servicing.

The high performance power unit is fully compatible with the existing EVO $^{\$}$ electric range and is available as an optional upgrade from either manual winch or the conversion of an existing electric EVO $^{\$}$.









65 EVO® High Performance 2-Speed Electric Winch

Lewmar have further expanded our winch capabilities by developing a revolutionary 2-speed electric winch. Using innovative gearing design, Lewmar have built upon the strong EVO^{\circledR} platform to create a performance product with incredible versatility. In both electric and manual modes, the 65 EVO^{\circledR} 2-speed is designed for smoother trimming under high loads at faster line speeds.

- Increased line speed (43m/min)
- Increased pulling loads (2200kg WLL)
- Optional twin or single button fast sheet and slow trimming controls



EVO 65 Electric Performance

60
50
40
40
New gearbox
New gearbox

Load (kg)

1200





Hydraulic Winches

Lewmar's hydraulic powered winches combine the benefits of electric winches with system integration. The installation of a cost-effective, multi-function hydraulic system on boats over 15m (50ft) enables short-handed sailing through push-button control of winches and other integrated deck functions.

- Suitable for craft over 15m (50ft)
- Minimal internal space required for compact motor
- Low weight
- Manual override facility
- Quiet operation
- Push button control
- Choice of styling Ocean traditional style available as well as the modern lines of the EVO® range

Push button control

Combining Lewmar's push button operation and Lewmar's Wavespring self-tailer produces simple hands free sailing whatever sheeting operation is to be carried out.

Manual override

Manual override can be effected simply and quickly through winch handle insertion.

Minimal space and weight

The hydraulic motor is extremely compact ensuring minimal internal space used, while being less obtrusive below deck. All achieved without compromising power.

Quiet operation

By using hydraulic power the winch operation is performed in near silence, adding to your sailing experience.



Hydraulic EVO® winch

Hydraulic Winch Specifications

| OCEAN WINCH PART NO | EVO WINCH PART NO | MODEL | FINISH | APPROXIMA KG | TE WEIGHT | | NE IZE IN | MOUNTING INSTRUCTIONS |
|------------------------|----------------------|-----------------------------|-----------------|-----------------|-----------|-------|--|--|
| 49046155 | 49545100 | 46HST OCEAN / 45HST EVO | ALLOY GREY | 16 | 34 | 8-14 | 5/16-9/16 | |
| 49046156 | 495451** | 46HST OCEAN / 45HST EVO | CHROME | 18 | 41 | 8-14 | 5/16-9/16 | |
| | 495451** | 45HST EV0 | ALLOY BLACK | 16 | 34 | 8-14 | 5/16-9/16 | 5 X M8 (⁵ / ₁₆ IN) C'SK HEAD SCREWS ON |
| 49046158 | | 46HST OCEAN | STAINLESS STEEL | 18 | 40 | 8-14 | 5/16-9/16 | 136MM (5 ^{11/} 32 IN) PCD |
| 49046159 | | 46HST OCEAN | ALL CHROME | 19 | 42 | 8-14 | 5/16-9/16 | |
| 490481** | 49550100 | 48HST OCEAN / 50HST EVO | ALLOY GREY | 17 | 38 | 8-14 | 5/16-9/16 | |
| 49048156 | 49550101 | 48HST OCEAN / 50HST EVO | CHROME | 21 | 46 | 8-14 | 5/16-9/16 | |
| | 49550110 | 50HST EV0 | ALLOY BLACK | 17 | 38 | 8-14 | 5/16-9/16 | 6 x m8 (⁵ / ₁₆ in) c'sk head screws on |
| 49048158 | | 48HST OCEAN | STAINLESS STEEL | 20 | 45 | 8-14 | 5/16-9/16 | 165мм (6 ¹ / ₂ IN) РСD |
| 49048159 | | 48HST OCEAN | ALL CHROME | 22 | 48 | 8-14 | 5/16-9/16 | |
| 490501** | | 50HST OCEAN | ALLOY GREY | 20 | 44 | 8-16 | 5/16-5/8 | |
| 49050101 | | 50HST OCEAN | CHROME | 25 | 54 | 8-16 | 5/16-5/8 | _ |
| 490501** | | 50HST OCEAN | STAINLESS STEEL | 25 | 55 | 8-16 | 5/16-5/8 | 6 x m8 ($\frac{5}{16}$ in) c'sk HEAD screws on 165mm ($6^{1}/_{2}$ in) PCD |
| 49050103 | | 50HST OCEAN | ALL CHROME | 25 | 56 | 8-16 | 5/16-5/8 | |
| 49054100 | 49555100 | 54HST OCEAN / 55HST EVO | ALLOY GREY | 21 | 45 | 8-16 | 5/ ₁₆ -5/ ₈ | |
| 49054101 | 49555101 | 54HST OCEAN / 55HST EVO | CHROME | 26 | 58 | 8-16 | 5/16-5/8 | |
| 49054101 | | | ALLOY BLACK | 21 | | 8-16 | ⁵ / ₁₆ - ⁵ / ₈ | 6 x m8 (⁵ / ₁₆ in) c'sk head screws on |
| / OOF / 1** | 495551** | 55HST EVO | STAINLESS STEEL | | 45 | 8-16 | | 165MM (6½ IN) PCD |
| 490541** | | 54HST OCEAN | | 31 | 67 | | ⁵ / ₁₆ - ⁵ / ₈ | |
| 49054103 | | 54HST OCEAN | ALL CHROME | 27 | 60 | 8-16 | 5/ ₁₆ -5/ ₈ | |
| 49058100 | | 58HST OCEAN | ALLOY GREY | 23 | 50 | 8-18 | 5/ ₁₆ -11/ ₁₆ | |
| 49058101 | | 58HST OCEAN | CHROME | 30 | 67 | 8-18 | 5/16-11/16 | 5 X M10 (³ / ₈ IN) C'SK HEAD SCREWS ON 184MM (7 ¹ / ₄ IN) PCD |
| 49058104 | | 58HST OCEAN | STAINLESS STEEL | 29 | 63 | 8-18 | 5/16-11/16 | |
| 49058103 | | 58HST OCEAN | ALL CHROME | 31 | 73 | 8-18 | 5/16-11/16 | |
| 49065100 | 495651** | 65HST OCEAN / EVO | ALLOY GREY | 25 | 55 | 8-18 | 5/16-11/16 | |
| 49065101 | 49565101 | 65HST OCEAN / EVO | CHROME | 32 | 71 | 8-18 | 5/16-11/16 | 2, , , |
| | 495651** | 65HST EV0 | ALLOY BLACK | 25 | 55 | 8-18 | 5/16-11/16 | 5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (71/4 IN) PCD |
| 49065104 | | 65HST OCEAN | STAINLESS STEEL | 32 | 70 | 8-18 | 5/16-11/16 | |
| 49065103 | | 65HST OCEAN | ALL CHROME | 31 | 73 | 8-18 | 5/16-11/16 | |
| 49068100 | 495701** | 68HST OCEAN / 70HST EVO | ALLOY GREY | 29 | 63 | 10-20 | 3/8-3/4 | |
| 49068101 | 495701** | 68HST OCEAN / 70HST EVO | CHROME | 35 | 78 | 10-20 | 3/8-3/4 | |
| | 495701** | 70HST EV0 | ALLOY BLACK | 29 | 63 | 10-20 | 3/8-3/4 | 6 X M10 (3 / ₈ IN) C'SK HEAD SCREWS ON 241MM (9 / ₂ IN) PCD |
| 49068104 | | 68HST OCEAN | STAINLESS STEEL | 34 | 75 | 10-20 | 3/8-3/4 | 1 32 |
| 49068103 | | 68HST OCEAN | ALL CHROME | 36 | 80 | 10-20 | 3/8-3/4 | |
| 49068105 | 495701** | 68/3HST OCEAN / 70/3HST EVO | ALLOY GREY | 40 | 88 | 10-20 | 3/8-3/4 | |
| 49068106 | 495701** | 68/3HST OCEAN / 70/3HST EVO | CHROME | 42 | 93 | 10-20 | 3/8-3/4 | |
| | 495701** | 70/3HST EV0 | ALLOY BLACK | 40 | 88 | 10-20 | 3/8-3/4 | 6 X M10 ($\frac{3}{8}$ IN) C'SK HEAD SCREWS ON 241MM ($\frac{9}{2}$ IN) PCD |
| 49068109 | | 68/3HST OCEAN | STAINLESS STEEL | 40 | 88 | 10-20 | 3/8-3/4 | 241MM (9/2 IN) PCD |
| 49068108 | | 68/3HST OCEAN | ALL CHROME | 42 | 93 | 10-20 | 3/8-3/4 | |
| 49077100 | 495801** | 77HST OCEAN / 80HST EVO | ALLOY GREY | 36 | 79 | 12-22 | 1/2-7/8 | |
| 49077101 | 49580101 | 77HST OCEAN / 80HST EVO | CHROME | 49 | 107 | 12-22 | 1/2-7/8 | |
| | 495801** | 80HST EVO | ALLOY BLACK | 36 | 79 | 12-22 | 1/2-7/8 | 6 X M10 (³ / ₈ IN) C'SK HEAD SCREWS ON |
| 49077104 | | 77HST OCEAN | STAINLESS STEEL | 41 | 89 | 12-22 | 1/2-7/8 | 241MM ($9\frac{1}{2}$ IN) PCD |
| 49077103 | | 77HST OCEAN | ALL CHROME | 49 | 107 | 12-22 | 1/2-7/8 | |
| 49077105 | 49580102 | 77/3HST OCEAN / 80/3HST EVO | ALLOY GREY | 42 | 92 | 12-22 | 1/2-7/8 | |
| 49077106 | 495801** | 77/3HST OCEAN / 80/3HST EVO | CHROME | 50 | 110 | 12-22 | 1/2-7/8 | |
| | 495801** | 8o/3HST EVO | ALLOY BLACK | 42 | 92 | 12-22 | 1/2-7/8 | 6 X M10 (3/8 IN) C'SK HEAD SCREWS ON |
| 49077109 | | 77/3HST OCEAN | STAINLESS STEEL | 42 | 92 | 12-22 | 1/2-7/8 | 241MM (9 ¹ / ₂ IN) PCD |
| 49077108 | | 77/3HST OCEAN | ALL CHROME | 50 | 110 | 12-22 | 1/2-7/8 | |
| .3.,, | | | l <u>-</u> | | | | '` ' | |

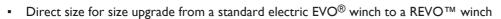


REVO™ Backwinding Winch

Lewmar introduces a complete range of electrically-operated, backwinding winches. With the touch of a button, sailors are able to trim sails both in and out. Push one button and the winch sheets in quickly to the working load limit.

A well-specified motor removes the added complication of switching between slow and fast forward gears. Simply push another button to allow the winch to pay out line. The insertion of a winch handle automatically changes to a familiar two-speed manual operation.

- Available in five sizes (40, 45, 50, 55, 65)
- No modification to the standard bolting pattern and deck cut-outs

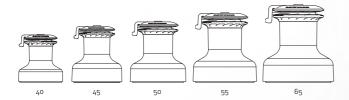


Uses proven winch internals to retain all the benefits of the $\mathsf{EVO}^{\texttt{®}}$ Winch

• Simple two button operation, one to pull sheet in and another to pay out

Operates as a normal two speed manual winch when a winch handle is inserted





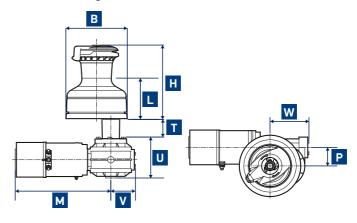


When back-winding, the REVOTM relies on load to strip the rope off the drum, thus avoiding tangles and ensuring rope is only released in the right circumstance.

In order to maximise the performance of the REVO™ winch, applications with minimal mechanical advantage are best, such as genoa/gennaker sheets. Purchase mainsheet systems may present too little load for the backwind feature to work.

In addition, small diameter, hi-tech lines are recommended.

Dimensions Diagram REVO™ Winch



| SIZE | N | 4 | F | | | 3 | U | J | | / | V | V |
|------|-----|----------|----|---------|----|---------|-----|---------|----|--------|-----|---------|
| | ММ | IN | ММ | IN | ММ | IN | мм | IN | ММ | IN | ММ | IN |
| 40 | 306 | 12 1/16 | 50 | 1 31/32 | 35 | 1 3/8 | 127 | 5 | 73 | 2 7/8 | 111 | 4 3/8 |
| 45 | 306 | 12 1/16 | 50 | 1 31/32 | 65 | 2 9/16 | 127 | 5 | 73 | 2 7/8 | 115 | 4 17/32 |
| 50 | 306 | 12 1/16 | 50 | 1 31/32 | 65 | 2 9/16 | 127 | 5 | 73 | 2 7/8 | 117 | 4 5/8 |
| 55 | 325 | 12 13/16 | 63 | 2 15/32 | 61 | 2 13/32 | 139 | 5 15/32 | 84 | 3 5/16 | 133 | 5 1/4 |
| 65 | 325 | 12 13/16 | 63 | 2 15/32 | 61 | 2 13/32 | 139 | 5 15/32 | 84 | 3 5/16 | 137 | 5 13/32 |

REVO™ Winch Specifications

| SIZE | ALLOY BLACK | ALLOY GREY | CHROME | W KG | LL LB | WEI ALI KG | GHT LOY LB | WEI CHR KG | GHT OME LB | MTR/GB0X | MOTOR WATTS | BA | ASE IIA IN | HEI MM | _ | | NE TRY |
|------|----------------|---------------|----------|---------|----------|------------------|------------------|------------------|------------------|----------|----------------|-----|------------------|-----------|---------|-----|-----------|
| 40 | 48340210 | 48340200 | 48340201 | 795 | 1749 | 18.8 | 41.4 | 20.5 | 45.1 | 48300014 | 700 | 154 | 6 1/16 | 179 | 6 15/16 | 98 | 3 7/8 |
| 45 | 48345210 | 48345200 | 48345201 | 1200 | 2640 | 23.1 | 50.8 | 25.6 | 56.3 | 48300014 | 700 | 174 | 6 27/32 | 193 | 7 19/32 | 103 | 4 1/16 |
| 50 | 48350210 | 48350200 | 48350201 | 1250 | 2750 | 25.7 | 56.5 | 29.1 | 64.0 | 48300014 | 700 | 186 | 7 11/32 | 215 | 8 15/32 | 109 | 49/32 |
| 55 | 48355210 | 48355200 | 48355201 | 1480 | 3256 | 30 | 66.0 | 35.8 | 78.8 | 48300016 | 1600 | 209 | 8 1/4 | 253 | 9 31/32 | 140 | 5 1/2 |
| 65 | 48365210 | 48365200 | 48365201 | 1700 | 3740 | 34.6 | 76.1 | 41.8 | 92.0 | 48300016 | 1600 | 234 | 9 7/32 | 268 | 10 9/16 | 144 | 5 11/16 |



Contactors & Control Boxes

E-series

The E-series contactor is equipped with a thermal trip to monitor the motor temperature, which ensures a cut out if the heat builds up to an unacceptable level.

Available on the EVO® electric winch range 40, 45 & 50.

Electric load sensing - ELS

Pioneered by Lewmar, ELS (Electric Load Sensing) electric winches are controlled by an Overload Protection Control Box, which allows the winch to be operated up to a set current relative to the working load limit of the specific winch. Once this current is exceeded, the winch automatically cuts out. Once the current drops to below the working load limit, the winch can be restarted. The ELS features the additional safety function of a motor thermal trip, which ensures that the motor cuts out in the event of excessive heat build up. ELS is available on the EVO® Electric Winch Range Size 40 to 80.

| PART NUMBER | DESCRIPTION | 40ST | 45ST | 50ST | 55ST | 65ST | 70-70/3 | 80-80/3 |
|----------------|-------------------------------|------|------|------|------|------|---------|---------|
| 68000933 | CONTACTOR 12V "E" | | • | | | | | |
| 68000934 | CONTACTOR 24V "E" | | | | | | | |
| 18000301 | CONTACTOR BOX 12V "E" | • | • | | | | | |
| 18000302 | CONTACTOR BOX 24V "E" | | | | | | | |
| 48000217 | ELS CONTROL BOX TYPE 1-3 | 24V | | | | | | |
| 48000220 | ELS CONTROL BOX TYPE 1-6 | | 24V | | | | | |
| 48000221 | ELS CONTROL BOX TYPE 1-7 | | | 24V | 24V | | | |
| 48000222 | ELS CONTROL BOX TYPE 1-8 | 12V | | | | 24V | | |
| 48000224 | ELS CONTROL BOX TYPE 2-2 | | 12V | | | | | |
| 48000225 | ELS CONTROL BOX TYPE 2-3 | | | 12V | | | | |
| 48000227 | ELS CONTROL BOX TYPE 2-5 | | | | 12V | | | |
| 48000229 | ELS CONTROL BOX TYPE 2-7 | | | | | 12V | | |
| 48000178 | 70-70/3 CONTROL BOX 12V "ELS" | | | | | | | |
| 48000179 | 70-70/3 CONTROL BOX 24V "ELS" | | | | | | | |
| 48000180 | 80-80/3 CONTROL BOX 12V "ELS" | | | | | | | • |
| 48000181 | 80-80/3 CONTROL BOX 24V "ELS" | | | | | | | |



Contactor "E"



"ELS" Electric Load Sensing Control Box

Circuit Breaker

| | | | | | , | WINCH SIZE | | | | |
|-------------|------|-----|-----|-----|-----|------------|-----|-----|-----|-----|
| CIRCUIT BRE | AKER | 40 | 45 | 50 | 55 | 65 | 70 | 80 | 90 | 110 |
| 68000542 | 40A | 24V | | | | | | | | |
| 68000348 | 50A | | 24V | | | | | | | |
| 68000240 | 70A | | | 24V | | | 24V | 24V | | 24V |
| 68000349 | 90A | 12V | | | 24V | 24V | | | 24V | |
| 68000350 | 110A | | 12V | | | | | | | |
| 68000239 | 120A | | | 12V | | | 12V | | | 12V |
| 68000351 | 150A | | | | | | | 12V | 12V | |
| 68000894 | 200A | | | | 12V | 12V | | | | |





4 Accessories

Switches

CHSX Foot Switch

- Suitable for DC electric winches running on 12 or 24v
- IP67/5 rated for water resistance
- Twin sealed switch compartment
- Composite plastic body
- Available with polished stainless steel or composite plastic lid
- New lower-profile design with updated styling

| DESCRIPTION | BLACK | STAINLESS STEEL |
|-------------|----------|-----------------|
| CLOSED LID | 68001249 | 68001257 |
| OPEN LID | 68001256 | 68001258 |



Custom Deck Switches

Lewmar has developed a new range of stylish Custom deck switches. The new Custom deck switch can be used for any winch or windlass application.

- Sealed switch with strong rubber button cover
- Stainless steel main body
- Polished or blasted finishes as standard (custom finishes available)



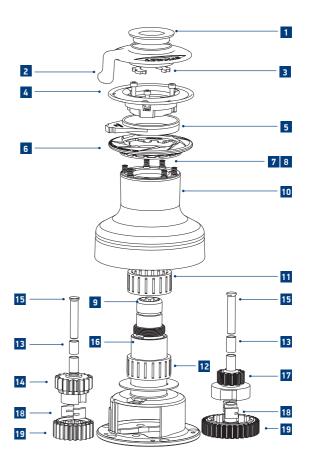
Custom Deck Switch Dimensions

Servicing Your Winch



- 1.Тор Сар
- 2. Feeder arm
- 3. Collet
- 4. Upper crown
- 5. Stripper ring
- 6. Lower crown
- 7. Spring
- 8. Spring cup
- 9. Main spindle

- 10. Drum
- II. Roller bearing assembly
- 12. Drum washer
- 13. Gear spindle sleeve
- 14. Pawl gear
- 15. Gear spindle
- 16 Centre stem
- 17. Pawl spring (not shown)
- 18. Pawl
- 19. Ratchet gear



Frequency of servicing

Lewmar winches must be serviced regularly. Winches are required to carry deceptively high loads. Regular servicing, with attention to correct assembly and condition of parts, is vital to the safety and performance of your boat.

When?

- 1. Two or three times during active sailing season winches should be stripped, cleaned and re-lubricated.
- At the end of each sailing season and before starting the new sailing season all Lewmar winches should be completely stripped, cleaned, thoroughly checked for damage and lubricated. (see the latest issue of the Lewmar Winch Service Manual available at www.lewmar.com)

External cleaning of the drum.

Chromed and stainless steel winches — wash drum regularly with fresh water and dry with a cloth. Non-abrasive liquid chrome cleaner can be used occasionally to remove dirt spots.

Alloy winches – wash drum regularly with fresh water and dry with a cloth. ${\sf DO}$ NOT use polishes or abrasives.

Servicing Winches

All components should be removed and cleaned in a paraffin bath during the course of servicing. If you do not have access to a paraffin bath, use half of an old plastic container with an old toothbrush. Even a cotton cloth soaked in paraffin or white spirit will suffice.

Caution

Some Lewmar winches contain plastic components which may be damaged by inappropriate cleaning agents. Always check the manufacturers directions before using any cleaning agents.

Greasing

Never use grease to lubricate your pawls, as this can lead to pawls sticking in their pockets and disabling the winch. Instead, lubricate with a light engine oil.

Use only a light smear of winch grease when lubricating ratchet tracks, gear teeth and bearings. Otherwise excess grease will be forced out and collect in potentially dangerous areas, such as pawl pockets.

Assembly

Winches must be re-assembled in the reverse sequence to the order of dismantling. After re-assembly, immediately check the winch functions correctly.

Mounting

Winches must be fitted as explained in the product manual (supplied with every winch and downloadable from www.lewmar.com).

Winches are self-draining and care should be taken to ensure the drain holes are not obstructed.

Ratchet Gears - Pawl Engagement

When assembling ratchet gears, check pawl engagement as shown below. Incorrect assembly will lead to back winding of the winch. This is very dangerous, so extreme care should be taken.







√ Correct

Winch Maintenance Kits

Lewmar offers a full range of winch spares. Service kits include all common servicable spares including pawls, springs, sleeves, o-rings etc.

Full details of winch spares, including exploded diagrams to aid identification, are available from the spares section of www.lewmar.com



48000014

Suitable for

- Ocean Standard winch sizes 6-40
- Ocean ST winch sizes 14 & 16
- EVO ST winch size 15



48000019

Suitable for

- Ocean ST winch sizes 30-48
- EVO ST winch sizes 30-50



48000017

Suitable for

- Ocean ST winch sizes 50-65
- EVO ST winch sizes 55-65



48000018

Suitable for

- Ocean ST winch size 68
- EVO ST winch size 70



19701500 Winch Maintenance **Pack**



19701000 Grease — 100g



19701100 Grease - 300g



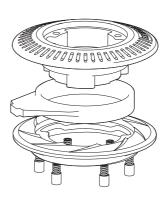
19701600 Race Lube -55ml

Winch Spares Kits

A full range of spares kits are also available, from bearing packages to jaw kits and everything in between. Contact your local Lewmar supplier or visit the spares section of www.lewmar.com



Drum Bearing Kit



Jaw Kit



Pawl Gear Kit



Custom Winches

For 50 years, Lewmar has been at the forefront of winch design and manufacture, featuring on cruisers to superyachts and Grand Prix racing boats.

Lewmar winches can be customised to suit individual aesthetic and functional requirements, with options including ceramic drum coatings, self-tailing jaws, custom top cleats, multiple speeds, free-spinning or ratcheting sheave base additions, and anticlockwise rotations. Each Lewmar winch is available in a choice of polished stainless steel, aluminium, or an individually specified finish, subject to discussion with your Lewmar representative.

- Cutting edge performance combined with classic styling
- Choice of styling includes rolex and bespoke engraving
- Individual functions to suit requirements, including sheave base, cleat or flat-top and self-tailing configurations
- Compatible with load-pin technology
- Ability to customise gear ratio and hydraulic motors to specific line requirements
- Electric or hydraulic operation options
- Available in bronze-effect finish
- Available in size 68 to size 150



Custom Winch Specifications

| PART NO | MODEL | FINISH | LII SI | NE ZE |
|----------|-------------------|-----------------|-----------|----------|
| | | | ММ | IN |
| 49088104 | 88HST OCEAN WINCH | STAINLESS STEEL | 12-25 | 1/2-1 |
| 49088248 | 88 FLAT TOP WINCH | STAINLESS STEEL | 12-25 | 1/2-1 |
| 49088109 | 88/3HST OCEAN | STAINLESS STEEL | 12-25 | 1/2-1 |
| 49111104 | 111HST OCEAN | STAINLESS STEEL | 16-38 | 5/8-11/2 |
| 49111109 | 111/3HST OCEAN | STAINLESS STEEL | 16-38 | 5/8-11/2 |
| 49111255 | 111/3 FLAT TOP | STAINLESS STEEL | 16-38 | 5/8-11/2 |
| 49122104 | 122HST OCEAN | STAINLESS STEEL | 16-38 | 5/8-11/2 |
| 49122121 | 122/3 FLAT TOP | STAINLESS STEEL | 16-38 | 5/8-11/2 |

As superyacht design trends evolve, so too must the look and feel of the equipment fitted to them. With current design tastes in mind, Lewmar has redesigned its custom range of winches to offer a cleaner, more streamlined look.

This parts list table contains just a fraction of the custom winches available. To assist with individual projects, our team of experts are on hand to help in selecting the perfect winch for the specific requirements.

Please email custom@lewmar.com with any enquiries.



ASTOR Custom Winches

Lewmar manufactures cutting-edge alloy winches for larger yachts in which ultra-modern features and technical innovation are combined with classical looks.

ASTOR winches utilise a strong centre stem made of steel and aluminium and highly rigid Torlon® roller bearings. Lewmar has the capability to produce winch drums with specially milled surfaces to increase the grip. ASTOR winches are up to 30% lighter than a traditionally built winch of alloy and steel.

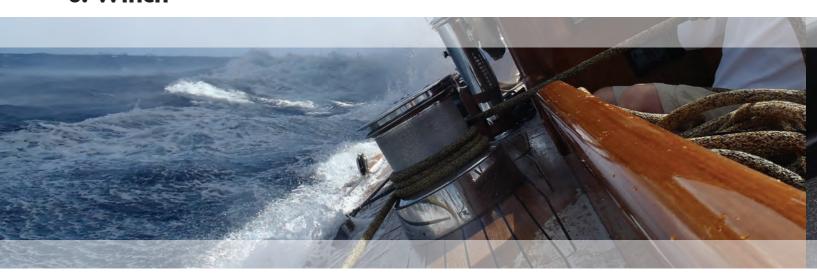
- Drive train based upon the proven Lewmar Ocean Range
- Available in size 40 to size 150
- Electric and hydraulic options available
- Lightweight aluminium construction

For further details contact custom@lewmar.com





| PART NO | MODEL | FINISH | | GE/ RA1 | | | | POW RAT | | | WE | GHT | DF | D RUM IIA | В | ASE DIA | | Н | LIN ENT | ١E | | INE IZE |
|----------|----------|---------------|-------|------------|--------|--------|--------|------------|--------|--------|------|------|-----|---------------------------------|-----|----------------------------------|-----|----------------------------------|------------|---------------------------------|-------|------------|
| | | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | KG | LB | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 49040050 | 40STR | BLACK | 1.9:1 | 5.8:1 | - | - | 13.2:1 | 40.2:1 | - | - | 3.4 | 7.5 | 74 | 2 ¹⁵ / ₁₆ | 148 | 5 ¹³ /16 | 173 | 6 ¹³ / ₁₆ | 80 | 31/8 | 8-12 | 5/16-1/2 |
| 49044050 | 44STR | BLACK | 2.4:1 | 7.6:1 | - | - | 13.9:1 | 44.8:1 | - | - | 4.9 | 10.8 | 87 | 37/16 | 168 | 6 ⁵ / ₈ | 192 | 7 ⁹ /16 | 84 | 3 ⁵ ⁄16 | 8-14 | 5/16-9/16 |
| 49044014 | 44/3AOR | GREY | 1:1 | 3:1 | 8.7:1 | - | 5.1:1 | 15.2:1 | 44:1 | - | 5.5 | 12.1 | 100 | 3 ¹⁵ /16 | 184 | 71/4 | 169 | 65/8 | 83 | 31/4 | 8-14 | 5/16-9/16 |
| 49048050 | 48STR | BLACK | 2.6:1 | 9:1 | - | - | 13.9:1 | 48.6:1 | - | - | 5.9 | 13.0 | 93 | 3 ¹¹ / ₁₆ | 181 | 71/8 | 208 | 8 ³ / ₁₆ | 86 | 33/8 | 8-14 | 5/16-9/16 |
| 49048015 | 48/3AOR | BLACK | 1:1 | 3.6:1 | 10.6:1 | - | 4.5:1 | 16.3:1 | 48:1 | - | 6.8 | 14.9 | 112 | 47/16 | 207 | 81/8 | 196 | 73/4 | 102 | 4 | 8-14 | 5/16-9/16 |
| 49050050 | 50STR | BLACK | 2.8:1 | 10.5:1 | - | - | 13.8:1 | 50.6:1 | - | - | 7.8 | 17.2 | 105 | 41/8 | 200 | 7% | 238 | 93/8 | 106 | 4 ³ / ₁₆ | 8-16 | 5/16-5/8 |
| 49050015 | 50/3AOR | BLACK | 1:1 | 5.4:1 | 12.8:1 | - | 31.1:1 | 20.9:1 | 49.9:1 | - | 8.4 | 18.4 | 130 | 51/8 | 225 | 87/8 | 223 | 83/4 | 120 | 43/4 | 8-16 | 5/16-5/8 |
| 49054050 | 54STR | BLACK | 2.8:1 | 11.2:1 | - | - | 13.8:1 | 54:1 | - | - | 8.3 | 18.3 | 105 | 41/8 | 205 | 8 ¹ / ₁₆ | 250 | 9 ¹³ / ₁₆ | 115 | 41/2 | 8-16 | 5/16-5/8 |
| 49058050 | 58STR | BLACK | 3.1:1 | 13.5:1 | - | - | 13.5:1 | 58.1:1 | - | - | 10.2 | 22.4 | 118 | 45/8 | 228 | 9 | 266 | 101/2 | 118.5 | 4 ¹¹ / ₁₆ | 8-18 | 5/16-11/16 |
| 49060015 | 60/3AOR | BLACK | 1:1 | 5.4:1 | 9:1 | - | 3.1:1 | 16.7:1 | 59.4:1 | - | 13.6 | 26.9 | 162 | 63/8 | 238 | 93/8 | 315 | 123/8 | 164 | 67/16 | 8-18 | 5/16-11/16 |
| 49062050 | 62STR | BLACK | 3.1:1 | 14.5:1 | - | - | 13.5:1 | 62.6:1 | - | - | 10.8 | 23.8 | 118 | 45/8 | 231 | 91/8 | 271 | 10 ¹¹ / ₁₆ | 121.5 | 43/4 | 8-18 | 5/16-11/16 |
| 49077035 | 77/3STR | GREY | 2.8:1 | 8:1 | 27:1 | - | 7.9:1 | 23:1 | 77:1 | - | 22.3 | 49.1 | 178 | 7 | 294 | 119/16 | 348 | 83/4 | 174 | 6% | 12-22 | 1/2-7/8 |
| 49088245 | 88/3STR | GREY FLAT TOP | 3.8:1 | 8:1 | 40:1 | - | 8.4:1 | 17.8:1 | 89:1 | - | 24.7 | 54.5 | 228 | 9 | 324 | 123/4 | 333 | 131/8 | 151 | 5 ¹⁵ /16 | 12-25 | 1/2-1 |
| 40000901 | 111/4AOR | GREY | 1:1 | 3.6:1 | 8:1 | 45.2:1 | 1.8:1 | 6.5:1 | 14.6:1 | 89.2:1 | 29.1 | 64.2 | 280 | 11 | 404 | 15 ¹⁵ / ₁₆ | 317 | 121/2 | 163 | 67/16 | 12-25 | 1/2-1 |



850/1150/1450 Backwind Winch

Lewmar has developed a full range of high-load, backwinding superyacht winches to cater for line loads up to 14.5T pull and 18T hold. Boats such as the awe-inspiring J-Class have long relied on Lewmar for their winch requirements and, as they continue to push the performance envelope, our design and engineering team have been challenged to keep up.

The range now includes the 1450, 1150 & 850 Backwind Winches, all featuring the same groundbreaking architecture. Twin output gears offer precise trimming and stability at high loads while the optimised gear ratios ensure high line speeds for manoeuvring. With the addition of the 850 to the range, performance cruisers of 80-100ft can now fit a backwinding primary.





850 Backwind

- 8.5T Max pull
- IOT Max hold



1150 Backwind

- II.5T Max pull
- I5T Max hold



1450 Backwind

- 14.5T Max pull
- 18T Max hold



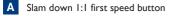
Lewmar Race Winches

Lewmar Racing Winches have been at the forefront of the world's premier races for the last 60 years, including the America's Cup, Vendee Globe, MedCup, and the Volvo Ocean Race. Features such as aluminium and carbon fibre construction, Torlon® polymer bearings, and optional titanium gears, are the result of close relationships with race crews and cutting-edge research and design. Lewmar Racing Winches are the first choice for lightweight performance boats that want a winch they can rely on, whether round the cans or around the world.

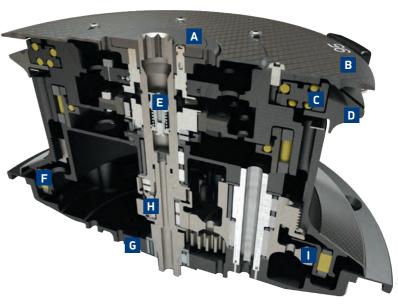
Grand Prix racing winches can be driven by grinding pedestals or by hydraulic or electric motors. With modern racing rules evolving all the time, the Lewmar winch range has evolved to meet these challenges.

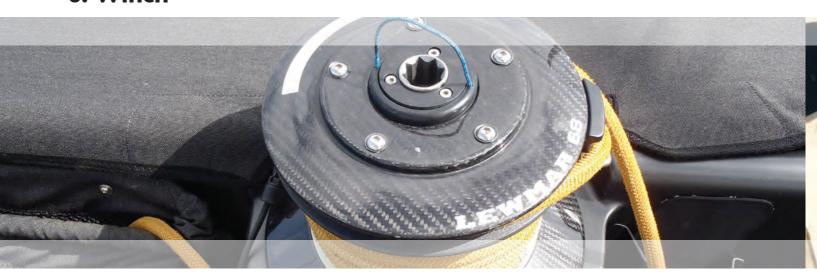
Pedestal-drive winch systems are used for applications demanding speed and power. One or more crew can grind from a powerful optimised standing position. Pedestal systems are customised to meet the specific needs of each boat.

- Latest Finite Element Analysis (FEA) and simulation software ensures designs are the lightest and most efficient winch systems
- Carbon power range available in Size 50 GPST through to the Size 120-4 GPST, with patented integral four-speed system
- Available with electric or hydraulic operation
- Operated by top handle or bottom pedestal drive
- Many custom options available, including ceramic drum coatings, custom top cleats, and free-spinning or ratcheting sheave base additions.
- Range available in 2 or 3 speed, or with Lewmar's patented integral 4-speed system
- State of the art carbon fibre finish offers weight saving
- Internal components crafted from aerospace industry materials
- Superior strength
- Developed through extensive research and development
- Custom speed and power ratios for ultimate flexibility
- Wavespring self-tailer
- Extensive range self-tailing, cleat top, sheave base combinations



- B Carbon Tops & Skirts Reducing weight
- C Torlon Balls More balls than any other winch!
- D Wave Grip self-tailer Proven, simple & effective design
- Drum Release Unique single release button, for quick maintenance and servicing
- F Large Torlon Bearings
- G Sunk Base Option For lower windage and flusher decks
- H Internal Roller Bearings For maximum efficiency
- Optimised Gear Design Skeletal but strong





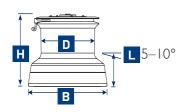
Small Grand Prix Race Winches

Lightweight and strong, Lewmar's race winches offer the serious racer outstanding performance and power. Using the best features of our standard range, combined with the technology used on Fast 40+, Small Grand Prix Racing Winches offer performance and flexibility in lower-load applications.

All 3-Speed Grand Prix winches are available in either self-tailing, cleat top or sheave base configurations.

- Developed in conjunction with some of the top racing classes including, Fast 40+ and Kerr designs
- Range of finishes, including milled and keronite surfaces
- Driven manually, by power or through a pedestal

Dimensions Diagram Grand Prix Racing Winch





Grand Prix Racing Winch Specifications

| PART NO | MODEL | 1ST | | AR TIO | 4ТН | 1ST | POV RA 2ND | | 4тн | WEI KG | GHT LB | DR D | UM | ВА | ASE IIA | HEI MM | GHT | LII EN | ΝE | | INE IZE | MOUNTING INSTRUCTIONS |
|----------|-----------|-------|--------|-----------|-----|--------|------------------|--------|-----|-----------|-----------|---------|------|-----|----------------------------------|-----------|---------------------------------|-----------|------|------|---|---|
| 49050125 | 50GPST | 3.4:1 | 11.3:1 | | | 15.2:1 | 50:1 | | | 4.7 | 10.3 | 115 | 41/2 | 188 | 7 ³ /8 | 168 | 65/8 | 62 | 21/2 | 8-14 | 5/16-9/16 | 5 X M8 ($\frac{5}{16}$ IN) C'SK HEAD SCREWS ON 170MM ($\frac{65}{8}$ IN) PCD |
| 49050130 | 50GPST SR | 3.4:1 | 11.3:1 | | | 15.2:1 | 50:1 | | | 5.1 | 11.2 | 115 | 41/2 | 217 | 8½ | 168 | 65/8 | 62 | 21/2 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ | 5 X M8 ($^5\!\!/_{16}$ IN) C'SK HEAD SCREWS ON 170MM ($6^5\!\!/_{8}$ IN) PCD |
| 49060000 | 6o/3GPST | 1:1 | 4.3:1 | 15.4:1 | | 3.9:1 | 16.8:1 | 60.2:1 | | 7.8 | 17.2 | 130 | 51/8 | 214 | 81/2 | 186 | 73/8 | 67 | 25/8 | 8-14 | 5/16-9/16 | 6 X M8 ($^5\!\!/_{16}$ IN) C'SK HEAD SCREWS ON 195MM ($7^5\!\!/_{8}$ IN) PCD |
| 49060009 | 60/3GP SB | 1:1 | 4.3:1 | 15.4:1 | | 3.9:1 | 16.8:1 | 60.2:1 | | 8.2 | 18 | 130 | 51/8 | 236 | 9 ⁵ /16 | 186 | 7 ³ / ₈ | 67 | 25/8 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ | 6 X M8 ($^5\!\!/_{16}$ IN) C'SK HEAD SCREWS ON 195MM ($7^5\!\!/_{8}$ IN) PCD |
| 49068001 | 68ACSTR | 3.5 | 19.2:1 | | | 12:1 | 67:1 | | | 9.5 | 20.9 | 150 | 5 % | 250 | 9 ¹³ / ₁₆ | 213 | 83/8 | 99 | 31/8 | 8-14 | 5/16-9/16 | $6\mathrm{X}\mathrm{M10}(^3\!/_8\mathrm{IN})\mathrm{C'SK}\mathrm{HEAD}\mathrm{SCREWS}$ ON 200MM $(7^7\!/_8\mathrm{IN})\mathrm{PCD}$ |
| 49068160 | 68/3ACSTR | 1:1 | 3.4:1 | 19.2:1 | | 3.5:1 | 12:1 | 67:1 | | 10.6 | 23.3 | 146 | 53/4 | 250 | 9 ¹³ / ₁₆ | 227 | 8 ¹⁵ / ₁₆ | 97 | 31/8 | 8-14 | 5/16-9/16 | 6 X M10 ($^3/_8$ IN) C'SK HEAD SCREWS ON 200MM ($^7/_8$ IN) PCD |
| 49068021 | 68/3GP SB | 1:1 | 3.5:1 | 19.3:1 | | 3.5:1 | 12:1 | 67:1 | | 10.5 | 23.1 | 146 | 53/4 | 275 | 10 ¹³ / ₁₆ | 227 | 8 ¹⁵ / ₁₆ | 95 | 33/4 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ | $6\mathrm{X}\mathrm{M10}(^3\!/_8\mathrm{IN})\mathrm{C'SK}\mathrm{HEAD}\mathrm{SCREWS}$ ON 200MM $(7^7\!/_8\mathrm{IN})\mathrm{PCD}$ |

SR - SPEED RING | ST- SELF TAILING | SB - SHEAVE BASE

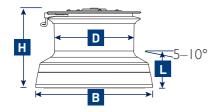


Large Grand Prix Race Winches

What's inside makes all the difference. In every Lewmar Grand Prix Winch, you will find materials developed for the aerospace industry, precision CNC machined for maximum efficiency, durability and strength-to-weight ratio. Once the winch is assembled, we use an aggressive in-house testing program to ensure maximum performance on the world's toughest racecourses.

- Developed in conjunction with some of the top racing classes including GP42, Class 40, TP52, Open 60, Volvo 70, IACC, I 00ft Supermaxis and offshore Maxi-Multihulls
- Range available in 2, 3 or with Lewmar's integral 4-speed system

Dimensions Diagram Grand Prix Racing Winch







| PART NO | MODEL | 1ST | GE RA | | 4 TH | 1ST | POV RA | | 4TH | WEI KG | GHT LB | DRI DI | UM | BA | ASE IA | HEI MM | | LII EN | | | NE IZE | MOUNTING INSTRUCTIONS |
|----------|-------------|-----|----------|--------|-------------|-------|-----------|--------|--------|-----------|-----------|-----------|-------|-----|----------------------|-----------|-------|-----------|---------------------|-------|---|--|
| 49082000 | 82GPST | 1:1 | 8.5:1 | 29:1 | | 2.5:1 | 24:1 | 82:1 | | 14.7 | 32.4 | 182 | 71/6 | 290 | 117/16 | 215 | 87/16 | 79.5 | 31/8 | 12-16 | 1/2-5/8 | 8 x m10 (³ / ₈ in) c'sk head screws on 266mm (10 ¹ / ₂ in) pcd |
| 49099000 | 99/3GPST | 1:1 | 9.4:1 | 40.9:1 | | 2.5:1 | 23:1 | 101:1 | | 17.5 | 38.5 | 204 | 8 | 320 | 125/8 | 234 | 91/4 | 90 | 3½ | 10-16 | 3/8-5/8 | 8 X M10 ($^3\!/_8$ IN) C'SK HEAD SCREWS ON 296MM ($^{11}\!/_8$ IN) PCD |
| 49099009 | 99/3GP SB | 1:1 | 9.4:1 | 40.9:1 | | 2.5:1 | 23:1 | 101:1 | | 19.2 | 42.2 | 204 | 8 | 328 | 12 ¹⁵ /16 | 234 | 91/4 | 92 | 3 ⁹ ⁄16 | 12-16 | 1/2-5/8 | $8 \times M10 (\frac{3}{8} \text{ IN}) \text{ c'SK HEAD SCREWS}$ ON 281MM (11 $\frac{1}{16} \text{ IN}) \text{ PCD}$ |
| 49095001 | 95/4GPST | 1:1 | 3.8:1 | 8:1 | 40:1 | 2:1 | 7.6:1 | 16:1 | 80:1 | 20.5 | 45.1 | 254 | 10 | 370 | 145/8 | 225 | 81/8 | 98 | 37/8 | 10-16 | 3/8-5/8 | $6 \text{ x m12 } (\frac{1}{2} \text{ in}) \text{ c'sk head screws on}$ 288mm (11 $\frac{3}{32} \text{ in}) \text{ pcd}$ |
| 49095004 | 95/4GPST SB | 1:1 | 3.8:1 | 8:1 | 40:1 | 2:1 | 7.6:1 | 16:1 | 80:1 | 21.8 | 48 | 254 | 10 | 370 | 145/8 | 225 | 81/8 | 98 | 37/8 | 10-16 | 3/8-5/8 | $6 \text{ x m12 } (\frac{1}{2} \text{ in}) \text{ c'sk head screws on}$ 288mm (11 $\frac{3}{32} \text{ in}) \text{ pcd}$ |
| 40005066 | 105/3STR | 1:1 | 8.3:1 | 39.6:1 | | 1.6:1 | 13.6:1 | 64.8:1 | | 18.5 | 40.7 | 280 | 11 | 360 | 149/32 | 225 | 81/8 | 93.7 | 3 ¹¹ /16 | 8-14 | ⁵ / ₁₆ - ⁹ / ₁₆ | $6 \times M12 (\frac{1}{2} \text{ IN}) \text{ c'SK HEAD SCREWS ON}$ 288MM (11 $\frac{3}{32} \text{ IN}$) PCD |
| 49105002 | 105/4GPST | 1:1 | 3.8:1 | 8:1 | 40:1 | 1.8:1 | 6.9:1 | 14.5:1 | 72.6:1 | 21.6 | 47.5 | 280 | 11 | 370 | 145/8 | 237 | 93/8 | 90 | 3½ | 10-16 | 3/8-5/8 | $6 \text{ x m12 } (\frac{1}{2} \text{ in}) \text{ c'sk head screws on}$ 288mm $(11^3/_{32} \text{ in}) \text{ pcd}$ |
| 49105006 | 105/4GP SB | 1:1 | 3.8:1 | 8:1 | 40:1 | 1.8:1 | 6.9:1 | 14.5:1 | 72.6:1 | 23.4 | 51.5 | 280 | 11 | 370 | 145/8 | 220 | 85/8 | 90 | 31/2 | 10-16 | 3/8-5/8 | 6 X M12 ($\frac{1}{2}$ IN) C'SK HEAD SCREWS ON 288MM (11 $\frac{3}{32}$ IN) PCD |
| 49115000 | 115/3ACSTR | 1:1 | 8:1 | 45.2:1 | | 1.8:1 | 14.8:1 | 82.2:1 | | 39.3 | 86.5 | 282 | 111/8 | 432 | 17 | 327 | 12% | 152 | 5 ⁵ /16 | 12-18 | 1/2-3/4 | 10 X M12 ($^{1}\!\!/_{2}$ IN) C'SK HEAD SCREWS ON 365MM (14 $^{3}\!\!/_{8}$ IN) PCD |
| 49120001 | 120/4ACSTR | 1:1 | 3.6:1 | 8:1 | 45.2:1 | 1.7:1 | 6:1 | 13.5:1 | 75.3:1 | 47.3 | 104.1 | 305 | 12 | 450 | 173/4 | 312 | 121/4 | 143 | 55/8 | 14-20 | 9/16-3/4 | 10 X M12 ($^{1}\!\!/_2$ IN) C'SK HEAD SCREWS ON 365MM (14 $^{3}\!\!/_8$ IN) PCD |



Lewmar Pedestal Systems

Lewmar has been making pedestal systems for over 40 years working closely with some of the best teams and sailors, over this time we have gained a great knowledge and understanding – we know what it takes to get you over the line. Our design engineers can develop bespoke tailored systems to your exact requirements.

- Optimised layup schedule ensures maximum stiffness and efficiency
- Drive components manufactured in hard anodised aluminium and titanium or 17-4 PH stainless steel
- Ceramic and Torlon[®] bearings along with carbon-reinforced drive belts provide lightweight, maximum efficiency

Drive Shafts

Lewmar offers two types of drive shafts, either extruded splined aluminium drive shafts, or the more popular custom made carbon tubular drive shafts with bonded end fittings. The drive shaft choice is determined by load, cost, and weight considerations.

Disconnect Foot Switches

Pedestal system disconnects can be activated with either levers, control lines or a two-position push button. The most popular method is operation via a foot switch.

Clutches

The unique Lewmar dog drive clutches ensure consistent and smooth operation. This allows engagement and disengagement even while the grinders are hard at work spinning the handles.

| PRODUCT | WEIGHT | | | | | | |
|--------------------------------|--------|-----|--|--|--|--|--|
| | KG | LB | | | | | |
| MODULAR SELF SEEKING CLUTCH | 2.4 | 5.3 | | | | | |
| INTEGRATED SELF SEEKING CLUTCH | 0.75 | 1.6 | | | | | |

Overdrive Box

The overdrive box can be used to increase line speeds or heighten power, ideal for fast leeward mark rounding, or short handed sailing if you need more power. The Lewmar overdrive box is modular and can be fitted to any pedestal drive system.

| PRODUCT | WEI | GHT | | |
|---------------|-----|-----|--|--|
| | KG | LB | | |
| OVERDRIVE BOX | 3.1 | 6.8 | | |

Rotor Pedestal

The new rotor pedestal is over 2kg lighter and is stiffer than its predecessor thanks to the more aggressive I-beam section and use of high-modulus carbon fibre. Large diameter Torlon[®] roller bearings have been used in the top end to support the high torque and axial loading which occurs during grinding. The top end is removable, making it easy to service from above deck. The complete internals can be dissembled, serviced and put back together within 30 minutes. This also means that the gear ratio can be easily changed on the water to suit the type of racing on the day.

Universal Joints

Gear boxes are connected to other gear boxes and pedestals by drive shafts fitted with either a universal joint or a coupling at each end. Our CV couplings are extremely light but may only be used where the shafts are in-line. Our high-angle universal joint is made of aluminium with 17-4 stainless pins, making it very strong and able to operate efficiently at shaft angles up to 15 degrees.

CV Joints



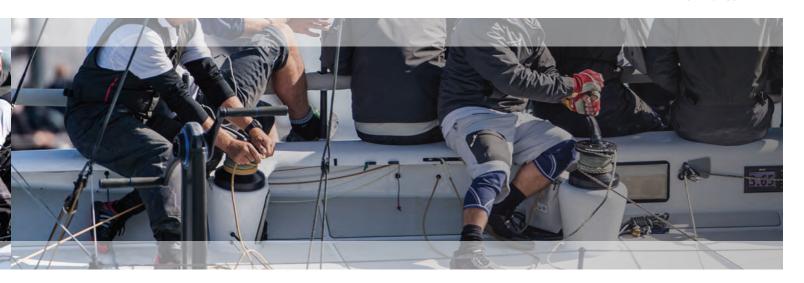


Lewmar Rotor Pedestal

The new rotor pedestal is over 2kg lighter and is stiffer than its predecessor thanks to the more aggressive I-beam section and use of high modulus carbon fibre. Large diameter Torlon[®] roller bearings have been used in the top end to support the high torque and axial loading which occurs during grinding. The top end is removable, making it easy to service from above deck. The complete internals can be dissembled, serviced and put back together within 30 minutes. This also means that the gear ratio can be easily changed on the water to suit the type of racing on the day.

- Lightweight carbon shell
- Developed using high-strength low-weight pre-preg carbon fibre composites from the FI industry
- Clear coat UV-stable protective lacquer is standard (painted options available)
- Internal composite bearing systems
- Double bearing systems on handle housing
- Carbon or composite racing grip handles





Oil-Filled Bevel Box

Our new oil-filled bevel boxes are 15% lighter and considerably smaller than its predecessor. By using very hard precision roller bearings, and thin oil lubrication, the bevel boxes are very efficient, requiring very little maintenance due to the high-quality internal bearings and magnetic drain plugs. Integrated clutches can be mounted directly to the bevel box housings to save the weight of additional brackets in the installation.



Overdrive Boxes

The overdrive units come with two ratio options: [1:1.8] and [1:2.8]

The box can be engaged to speed up the winches (less power) or in slow down the winches (more power). This feature allows optimal load management in different applications and conditions. These overdrive boxes can be mounted on the pedestal or in line, next to the first bevel box.



The clutches have been simplified to make them lighter and easier to service with fewer parts. The small assemblies can be mounted to the bevel boxes, winches or pedestal to disconnect/connect exactly where needed in the system.









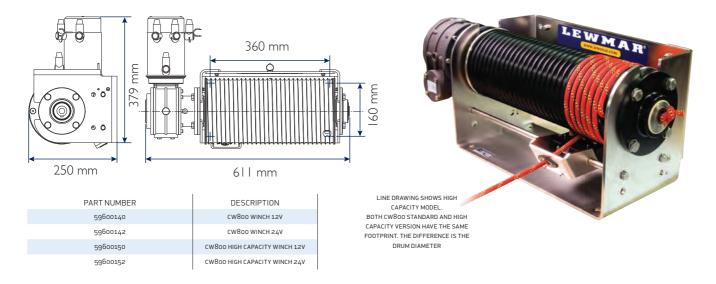
CW 800 – The Captive Winch For The Smaller Yacht

The CW 800 winch is ideal for the main halyard or mainsheet on yachts. The CW 800 offers safe, remote-controlled line handling and storage on yachts up to 48ft (14.6m).

If you wish to have powered winches but do not have the space on the cabin top, using a CW 800 will allow the halyards to be hauled and stored in a convenient place on board for a very efficient use of space on smaller yachts.

Available in 12V and 24V options, the CW 800 is a viable alternative to managing halyards, or main sheets, dependent on the line speed required.

Dimensions Diagram CW 800



CW 800 Standard Specification

| SPECIFICATION | METRIC | IMPERIAL |
|-----------------------|------------|-----------------------------|
| MAX LINE LENGTH | 10.3 M | 34 FT |
| LINE SIZE | 10 – 12 MM | $^{3}/_{8} - ^{7}/_{16}$ IN |
| MAXIMUM LINE SPEED | 33.5 M/MIN | 110 FT/MIN |
| MAXIMUM PULL | 800 KG | 1760 LB |
| MAXIMUM HOLDING POWER | 1500 KG | 3307 LB |
| WEIGHT | 38.5 KG | 85E LB |

CW 800 High Capacity Specification

| SPECIFICATION | METRIC | IMPERIAL |
|-----------------------|------------|-----------------------------|
| MAX LINE LENGTH | 14.6 M | 48 FT |
| LINE SIZE | 10 - 12 MM | $^{3}/_{8} - ^{7}/_{16}$ IN |
| MAXIMUM LINE SPEED | 45 M/MIN | 148 FT/MIN |
| MAXIMUM PULL | 500 KG | 1102 LB |
| MAXIMUM HOLDING POWER | 1500 KG | 3307 LB |
| WEIGHT | 39.3 KG | 87 LB |

LMS - Captive Winch Line Management System

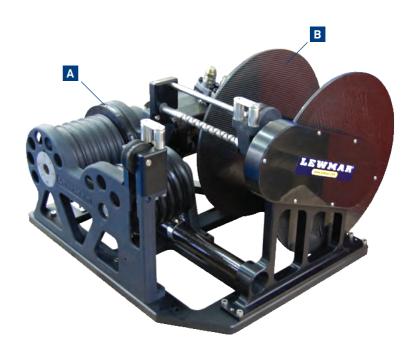
The Lewmar Captive Winch Line Management System offers safe, remote-controlled line handling and storage for yachts in the 22m (72ft) to 91m (300ft) range. The unique separate hauling drum eliminates the need for long lead entries, while storing the rope at low tension on a separate drum prevents damage to the rope. For small boats where space under the cabin top is limited, we have designed the CW800.

- Up to 25% lighter than previous models
- Compact size
- Up to 3 speed options
- Carbon stowage drum
- Eliminates long lead entry angles

- Can be used with proportional or non proportional hydraulic control systems
- Self sustaining no load 'drop back' when the brakes are applied
- Pulls from 2.5 to 18 tons

A separate hauling drum eliminates the need for long lead entries while storing the rope to the separate storage drum, allowing the rope to be stored neatly at low tension and preventing damage to the rope and the possibility of riding turns.

- A Unique V groove sheave improves grip and reduces rope damage
- B Line stowing system ensures low line tension and good line lay
- Automatic hauling system
- Separate hauling and stowing drums, allows more rope storage for a given size
- Emergency high-load release feature

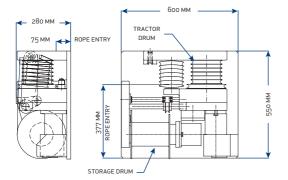


LMS Standard Specifications

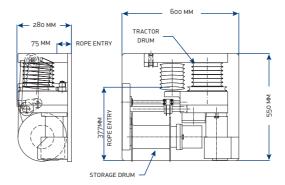
| | SPEEDS | MAXI LINE | IMUM PULL | MAXIMUM LINE SPEED IN EACH GEAR | | FLOW F MAX LINE | RATE AT E SPEEDS | | NE ETER | MAXIMUM PRES | WORKING SURE | WEIGHT | |
|---------|--------|--------------|--------------|------------------------------------|-----------|--------------------|---------------------|-------|------------|-----------------|-----------------|--------|------|
| | | KG | LB | M/MIN | FT/MIN | L/MIN | US GAL/MIN | ММ | IN | BAR | PSI | KG | LB |
| CW2500 | 1 | 2500 | 5512 | 28 | 92 | 60 | 15.9 | 12-16 | 1/2-5/8 | 160 | 2321 | 120 | 265 |
| CW3500 | 2 | 3500 | 7716 | 31/15 | 102/49 | 55 | 14.5 | 12-16 | 1/2-5/8 | 150 | 2176 | 120 | 265 |
| cw6000 | 2 OR 3 | 6000 | 13228 | 60/24/15 | 197/79/49 | 45 | 11.9 | 14-22 | 9/16-7/8 | 235 | 3408 | 150 | 331 |
| cw9000 | 2 OR 3 | 9000 | 19842 | 60/22/10 | 197/72/33 | 70 | 18.5 | 22-28 | 7/8-11/8 | 200 | 2901 | 285 | 628 |
| CW12000 | 2 OR 3 | 12000 | 26455 | 60/20/13 | 197/66/43 | 95 | 25.1 | 26-30 | 1-13/16 | 230 | 3336 | 480 | 1058 |
| CW18000 | 2 OR 3 | 18000 | 39683 | 60/16/10 | 197/52/33 | 110 | 29.1 | 30-38 | 13/16-11/2 | 220 | 3191 | 600 | 1323 |

| MODEL | CW2500 | CW3500 | CW6000 | CW9000 | CW12000 | CW18000 |
|-------------------|---------------------------------------|---------------------------------------|---|---|---|---|
| LINE STORAGE (M) | Ø12MM: 38 | Ø12MM: 38 | Ø14MM:110 | Ø20MM: 110 | ø26мм : 65 | øзомм : 65 |
| | Ø14MM:29 | Ø14MM:29 | Ø16MM: 90 | Ø22MM : 85 | Ø28MM: 55 | Ø32MM:55 |
| | Ø16MM: 27 | Ø16MM: 27 | Ø18MM:75 | ø24MM : 65 | Ø30MM: 50 | Ø34MM:50 |
| | | | Ø20MM : 60 | ø26мм : 6o | Ø32MM: 40 | ø36мм : 45 |
| | | | Ø22MM:50 | Ø28MM: 50 | | |
| LINE STORAGE (FT) | 0 ¹ / ₂ " : 125 | ø ¹ / ₂ " : 125 | ø ⁹ / ₁₆ " : 361 | Ø ¹³ / ₁₆ " : 361 | Ø1 ⁵ / ₁₆ " : 213 | Ø1 ³ / ₁₆ ":213 |
| | ø ⁹ / ₁₆ " : 95 | ø ⁹ / ₁₆ " : 95 | ø ⁵ / ₈ " : 295 | ø ⁷ / ₈ " : 279 | Ø1 ⁵ / ₁₆ ": 180 | Ø1 ¹ / ₄ " : 180 |
| | ø ⁵ / ₈ " : 89 | ø ⁵ / ₈ " : 89 | ø ¹¹ / ₁₆ " : 246 | Ø ¹⁵ / ₁₆ " : 213 | Ø1 ³ / ₁₆ ": 164 | Ø1 ⁵ / ₁₆ " : 164 |
| | | | Ø ¹³ / ₁₆ " : 197 | Ø ¹⁵ / ₁₆ " : 197 | Ø1 ¹ / ₄ " : 148 | Ø1 ⁷ / ₁₆ ": 148 |
| | | | ø ⁷ /8" : 164 | Ø ¹⁵ / ₁₆ " : 164 | | |

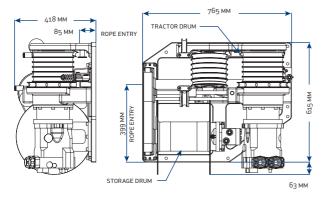
CW 2500



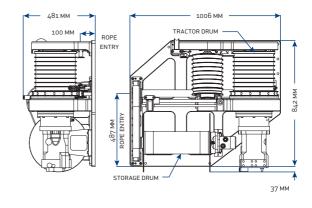
CW 3500



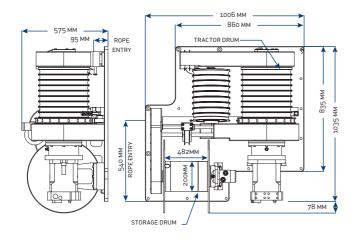
CW 6000



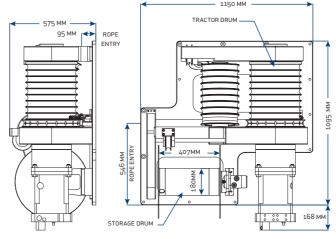
CW 9000



CW 12000



CW 18000



Custom Line Storage

Custom line storage options available.

Contact custom@lewmar.com for more information





Winch Handles

OneTouch Winch Handle

The award-winning OneTouch allows you to lock in and remove the winch handle with one hand. Simply squeeze the release lever, which runs the entire length of the handle, and pull to unlock in one quick, easy motion.

• 8" and 10" Alloy Handle

29140040

29140042

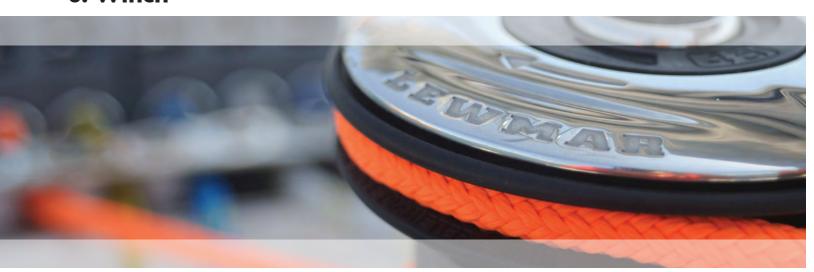
200

- Release lever runs entire length of the handle
- Easy one-handed removal just squeeze and lift
- Lightweight, forged construction
- Corrosion resistant for years of performance under harsh conditions
- Available in Standard Grip and Power Grip



ALLOY HANDLE, LOCK-IN, SINGLE GRIP

ALLOY HANDLE, LOCK-IN, POWER GRIP



Lewmar Winch Handles

- Ball bearings provide maximum efficiency
- Manufactured in durable, lightweight alloy
- 250mm (10") available in chrome
- Optional Power Grip makes initial fast cranking easy and comfortable, with space for a second hand once the load comes on

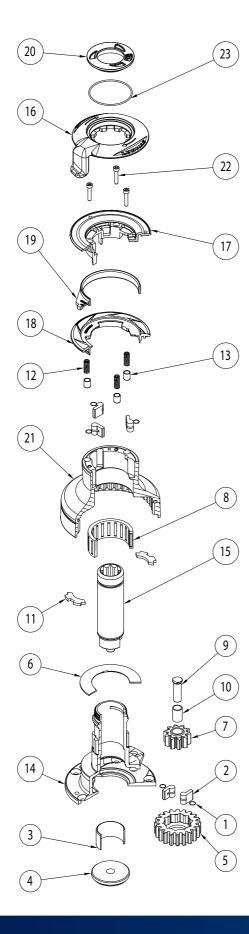


Titan Winch Handles

- Strong composite construction
- Very light-weight
- Handle floats if dropped overboard
- Engineered to withstand rigours of saltwater environment.

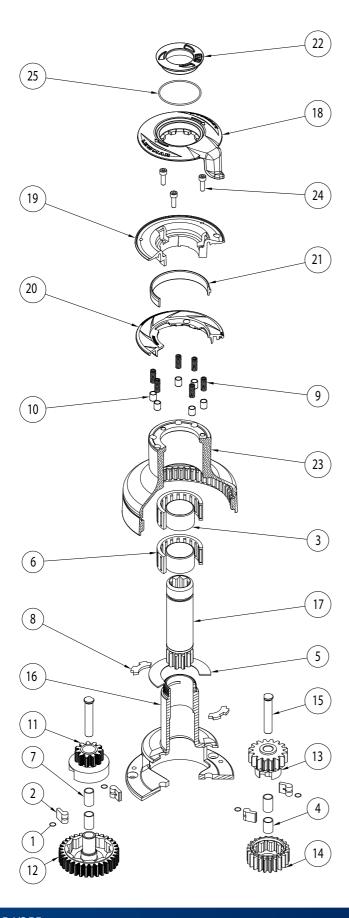
| PART NUMBER | SI | ZE | DESCRIPTION |
|-------------|-----|----|--|
| | ММ | IN | |
| 29145301 | 200 | 8 | TITAN WINCH HANDLE, RED, LOCKING |
| 29145311 | 250 | 10 | TITAN WINCH HANDLE, RED, LOCKING |
| 29140017 | 200 | 8 | LEWMAR WINCH HANDLE, BLUE, NON-LOCKING |



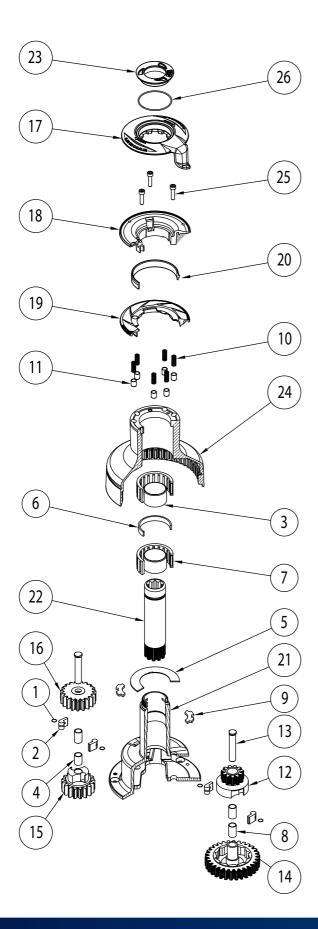


| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|------------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 5 | 48000014 |
| 2 | 1260/8 | PAWL SMALL | 5 | 48000014 |
| 3 | 15000377 | BEARING SLEEVE | 1 | 48000014 |
| 4 | 15000461 | GEAR RETAINER | 1 | 48300060 |
| 5 | 15000464 | RATCHET GEAR | 1 | 15000464 |
| 6 | 15000466 | DRUM WASHER | 1 | 48000454 |
| 7 | 15000827 | IDLER GEAR | 1 | 15000827 |
| 8 | 15008007 | NEEDLE BEARING | 1 | 48000454 |
| 9 | 45000023 | GEAR SPINDLE | 1 | 45000023 |
| 10 | 45000033 | GEAR SPINDLE SLEEVE | 1 | 48300060 |
| 11 | 45000102 | COLLET | 2 | 48000446 |
| 12 | 45000112 | SPRING | 3 | 48500016 |
| 13 | 45000113 | SPRING CUP | 3 | 48500016 |
| 14 | 48515017 | CENTRE STEM | 1 | CONTACT DEALER |
| 15 | 45500004 | MAIN SPINDLE | 1 | CONTACT DEALER |
| 16 | 45500005 | FEEDER ARM | 1 | 48500005 |
| 17 | 45500006 | UPPER CROWN | 1 | 48500016 |
| 18 | 45500007 | LOWER CROWN | 1 | 48500016 |
| 19 | 45500008 | STRIPPER RING | 1 | 48500016 |
| 20 | 45500009 | TOP CAP | 1 | 48500015 |
| 21 | 455000** | DRUM | 1 | CONTACT DEALER |
| 22 | | M4X20LNG SKT HD CAP SCREW A2 | 3 | 48500016 |
| 23 | B12988 | 0 RING 50 X 1.5 | 1 | 48500015 |

30ST EVO® Winch spares

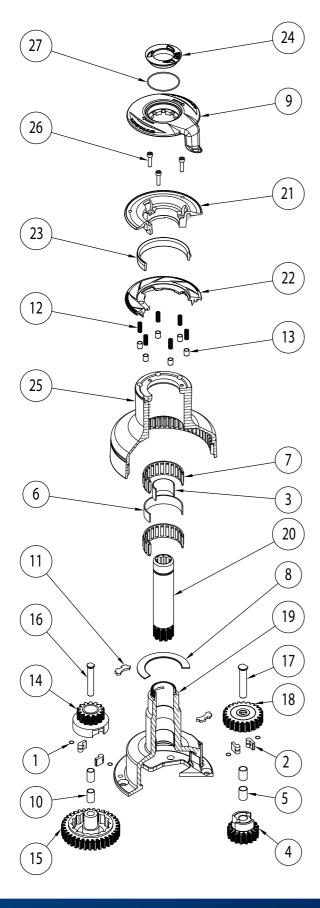


| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000378 | GEAR SPINDLE SLEEVE | 1 | 48000465 |
| 5 | 15000466 | DRUM WASHER | 1 | 48000455 |
| 6 | 15008007 | NEEDLE BEARING | 2 | 48000455 |
| 7 | 45000029 | GEAR SPINDLE SLEEVE | 3 | 48000465 |
| 8 | 45000102 | COLLET | 2 | 48000446 |
| 9 | 45000112 | SPRING | 6 | 48500031 |
| 10 | 45000113 | SPRING CUP | 6 | 48500031 |
| 11 | 45000119 | PAWL GEAR | 1 | 48000465 |
| 12 | 45000120 | RATCHET GEAR | 1 | 45000120 |
| 13 | 45000121 | PAWL GEAR | 1 | 48000465 |
| 14 | 45000122 | RATCHET GEAR | 1 | 48000465 |
| 15 | 45000123 | GEAR SPINDLE | 2 | 48300027 |
| 16 | 48530017 | CENTRE STEM | 1 | 48530017 |
| 17 | 45500104 | MAIN SPINDLE | 1 | 45500104 |
| 18 | 45500105 | FEEDER ARM | 1 | 48500105 |
| 19 | 45500106 | UPPER CROWN | 1 | 48500031 |
| 20 | 45500107 | LOWER CROWN | 1 | 48500031 |
| 21 | 45500108 | STRIPPER RING | 1 | 48500031 |
| 22 | 45500109 | TOP CAP | 1 | 48500030 |
| 23 | 455001** | DRUM | 1 | CONTACT DEALER |
| 24 | | M5X16 SKT HD CAP SCREW A2 | 3 | 48500031 |
| 25 | B12987 | 0-RING 48X1.5 | 1 | 48500030 |

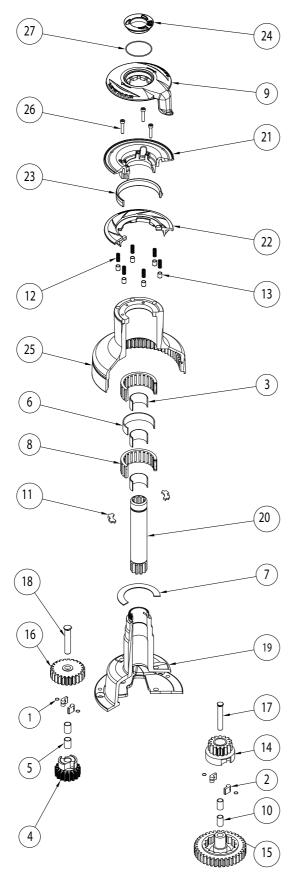


| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000378 | GEAR SPINDLE SLEEVE | 1 | 48000467 |
| 5 | 15000466 | DRUM WASHER | 1 | 48000456 |
| 6 | 15000491 | BEARING SPACER | 1 | 48000456 |
| 7 | 15008007 | NEEDLE BEARING | 2 | 48000456 |
| 8 | 45000029 | GEAR SPINDLE SLEEVE | 3 | 48000464 |
| 9 | 45000102 | COLLET | 2 | 48000446 |
| 10 | 45000112 | SPRING | 6 | 48500031 |
| 11 | 45000113 | SPRING CUP | 6 | 48500031 |
| 12 | 45000119 | PAWL GEAR | 1 | 48000464 |
| 13 | 45000123 | GEAR SPINDLE | 2 | 48300027 |
| 14 | 45000220 | RATCHET GEAR | 1 | 48300029 |
| 15 | 45000221 | PAWL GEAR | 1 | 48000467 |
| 16 | 45000222 | RATCHET GEAR | 1 | 45000222 |
| 17 | 45500105 | FEEDER ARM | 1 | 48500105 |
| 18 | 45500106 | UPPER CROWN | 1 | 48500031 |
| 19 | 45500107 | LOWER CROWN | 1 | 48500031 |
| 20 | 45500108 | STRIPPER RING | 1 | 48500031 |
| 21 | 48540017 | CENTRE STEM | 1 | 48540017 |
| 22 | 45500204 | MAIN SPINDLE | 1 | 45500204 |
| 23 | 45500209 | TOP CAP | 1 | 48500040 |
| 24 | 455002** | DRUM | 1 | CONTACT DEALER |
| 25 | | M5X20 SKT HD CAP SCREW A2 | 3 | 48500031 |
| 26 | B12987 | 0-RING 48X1.5 | 1 | 48500040 |

45ST EVO® Winch spares

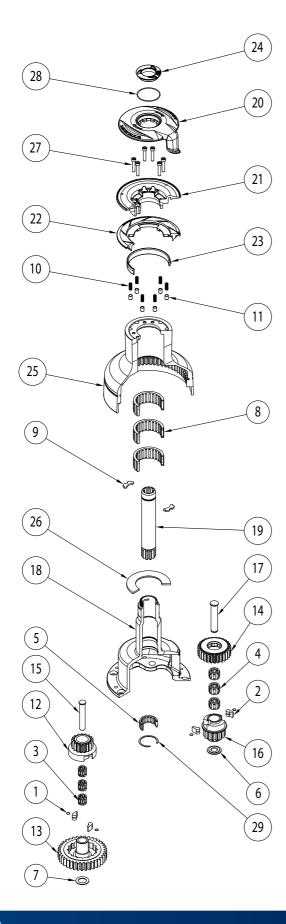


| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000397 | PAWL GEAR | 1 | 48000468 |
| 5 | 15000398 | SPINDLE SLEEVE | 2 | 48000468 |
| 6 | 15000404 | SPACER | 1 | 48000457 |
| 7 | 15010007 | ROLLER BEARING | 2 | 48000457 |
| 8 | 15044116 | DRUM WASHER | 1 | 48000457 |
| 9 | 43500305 | FEEDER ARM | 1 | 48500305 |
| 10 | 45000029 | GEAR SPINDLE SLEEVE | 2 | 48000469 |
| 11 | 45000102 | COLLET | 2 | 48000446 |
| 12 | 45000112 | SPRING | 6 | 48500046 |
| 13 | 45000113 | SPRING CUP | 6 | 48500046 |
| 14 | 45000319 | PAWL GEAR | 1 | 48000469 |
| 15 | 45000320 | RATCHET GEAR | 1 | 48300036 |
| 16 | 45000323 | GEAR SPINDLE | 1 | 45000323 |
| 17 | 45000324 | GEAR SPINDLE | 1 | 45000324 |
| 18 | 45000333 | RATCHET GEAR | 1 | 45000333 |
| 19 | 48545017 | CENTRE STEM | 1 | 48545017 |
| 20 | 45500304 | MAIN SPINDLE | 1 | 45500304 |
| 21 | 45500306 | UPPER CROWN | 1 | 48500046 |
| 22 | 45500307 | LOWER CROWN | 1 | 48500046 |
| 23 | 45500308 | STRIPPER RING | 1 | 48500046 |
| 24 | 45500309 | TOP CAP | 1 | 48500045 |
| 25 | 455003** | DRUM | 1 | CONTACT DEALER |
| 26 | | M5X20 SKT HD CAP SCREW A2 | 3 | 48500046 |
| 27 | B12987 | 0-RING 48X1.5 | 1 | 48500045 |

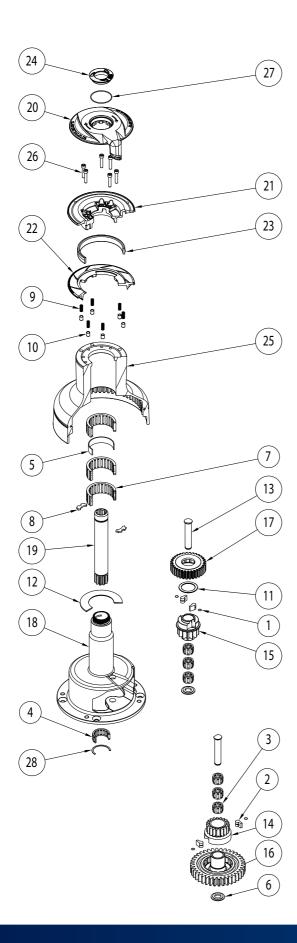


| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------------|-----|---------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 3 | 48000019 |
| 4 | 15000397 | PAWL GEAR | 1 | 48000468 |
| 5 | 15000398 | SPINDLE SLEEVE | 2 | 48000468 |
| 6 | 15000404 | SPACER | 1 | 48000458 |
| 7 | 15044116 | DRUM WASHER | 1 | 48000458 |
| 8 | 15044121 | ROLLER BEARING | 2 | 48000458 |
| 9 | 43500405 | FEEDER ARM | 1 | 48500405 |
| 10 | 45000029 | GEAR SPINDLE SLEEVE | 2 | 48000470 |
| 11 | 45000102 | COLLET | 2 | 48000446 |
| 12 | 45000112 | SPRING | 6 | 48500051 |
| 13 | 45000113 | SPRING CUP | 6 | 48500051 |
| 14 | 45000419 | PAWL GEAR | 1 | 48000470 |
| 15 | 45000420 | RATCHET GEAR | 1 | 48300043 |
| 16 | 45000422 | RATCHET GEAR | 1 | 45000422 |
| 17 | 45000423 | GEAR SPINDLE | 1 | 45000423 |
| 18 | 45000424 | GEAR SPINDLE | 1 | 45000424 |
| 19 | 48550017 | CENTRE STEM | 1 | 48550017 |
| 20 | 45500404 | MAIN SPINDLE | 1 | 45500404 |
| 21 | 45500406 | UPPER CROWN | 1 | 48500051 |
| 22 | 45500407 | LOWER CROWN | 1 | 48500051 |
| 23 | 45500408 | STRIPPER RING | 1 | 48500051 |
| 24 | 45500409 | TOP CAP | 1 | 48500050 |
| 25 | 455004** | DRUM | 1 | CONTACT DEALE |
| 26 | | M5X20 SKT HD CAP SCREW A2 | 3 | 48500051 |
| 27 | B12987 | 0-RING 48X1.5 | 1 | 48500050 |

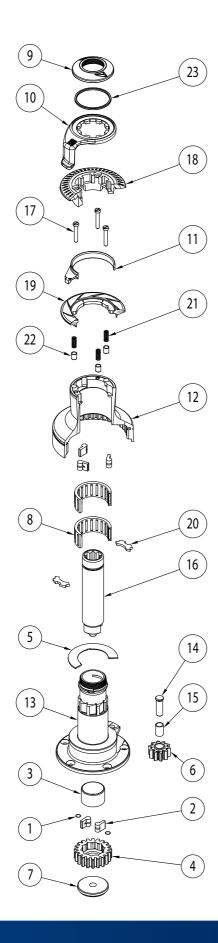
55ST EVO® Winch spares



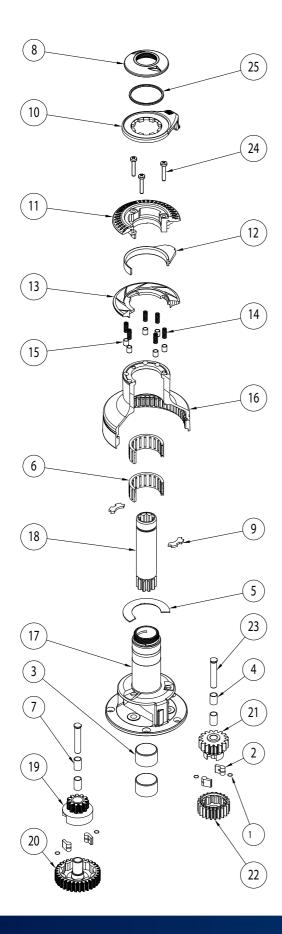
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000017 |
| 2 | 1264/8 | PAWL | 4 | 48000017 |
| 3 | 1300-SA2 | BEARING ASSY | 3 | 48000017 |
| 4 | 15000017 | ROLLER BEARING | 3 | 48000473 |
| 5 | 15000019 | ROLLER BEARING | 1 | 48000019 |
| 6 | 15000646 | WASHER | 1 | 48000473 |
| 7 | 15000981 | WASHER | 1 | 48000017 |
| 8 | 15044121 | ROLLER BEARING | 3 | 48000460 |
| 9 | 45000102 | COLLET | 2 | 48000446 |
| 10 | 45000112 | SPRING | 6 | 48500056 |
| 11 | 45000113 | SPRING CUP | 6 | 48500056 |
| 12 | 45000519 | PAWL GEAR | 1 | 48000472 |
| 13 | 45000520 | RATCHET GEAR | 1 | 45000520 |
| 14 | 45000522 | RATCHET GEAR | 1 | 45000522 |
| 15 | 45000523 | GEAR SPINDLE | 1 | 45000523 |
| 16 | 45000621 | PAWL GEAR | 1 | 48000473 |
| 17 | 45000624 | GEAR SPINDLE | 1 | 45000624 |
| 18 | 48555017 | CENTRE STEM | 1 | 48555017 |
| 19 | 45500504 | MAIN SPINDLE | 1 | 45500504 |
| 20 | 45500505 | FEEDER ARM | 1 | 48500405 |
| 21 | 45500506 | UPPER CROWN | 1 | 48500056 |
| 22 | 45500507 | LOWER CROWN | 1 | 48500056 |
| 23 | 45500508 | STRIPPER RING | 1 | 48500056 |
| 24 | 45500509 | TOP CAP | 1 | 48500055 |
| 25 | 455005** | DRUM | 1 | CONTACT DEALER |
| 26 | 45500513 | DRUM WASHER | 1 | 48000460 |
| 27 | | SKT HD CAP SCREW M6X30 | 6 | 48500056 |
| 28 | B12988 | 0 RING 50X1.5 | 1 | 48500055 |
| 29 | B2092 | CIRCLIP | 1 | 48000017 |



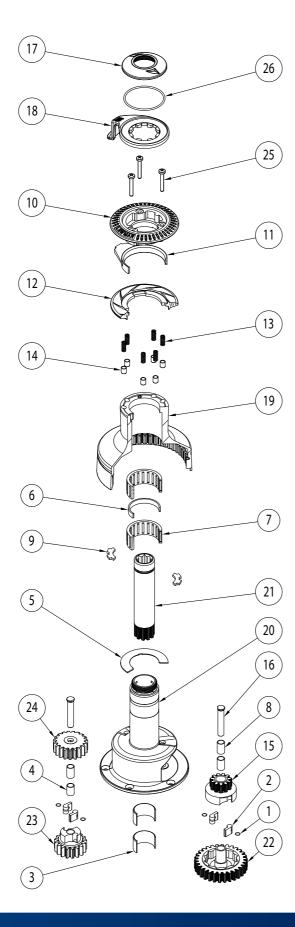
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000017 |
| 2 | 1264/8 | PAWL | 4 | 48000017 |
| 3 | 15000017 | ROLLER BEARING | 6 | 48000017 |
| 4 | 15000019 | ROLLER BEARING | 1 | 15000019 |
| 5 | 15000404 | SPACER | 1 | 48000017 |
| 6 | 15000646 | WASHER | 1 | 48000017 |
| 7 | 15044121 | ROLLER BEARING | 3 | 48000462 |
| 8 | 45000102 | COLLET | 2 | 48000446 |
| 9 | 45000112 | SPRING | 6 | 48500066 |
| 10 | 45000113 | SPRING CUP | 6 | 48500066 |
| 11 | 45000533 | WASHER | 1 | 48000476 |
| 12 | 45000534 | DRUM WASHER | 1 | 48000462 |
| 13 | 45000624 | GEAR SPINDLE | 2 | 45000624 |
| 14 | 45000719 | PAWL GEAR | 1 | 48000475 |
| 15 | 45000821 | PAWL GEAR | 1 | 48000476 |
| 16 | 45000851 | RATCHET GEAR | 1 | 45000851 |
| 17 | 45005183 | RATCHET GEAR | | 48000476 |
| 18 | 48565017 | CENTRE STEM | 1 | 48565017 |
| 19 | 45500604 | MAIN SPINDLE | 1 | 45500604 |
| 20 | 45500605 | FEEDER ARM | 1 | 48500605 |
| 21 | 45500606 | UPPER CROWN | 1 | 48500066 |
| 22 | 45500607 | LOWER CROWN | 1 | 48500066 |
| 23 | 45500608 | STRIPPER RING | 1 | 48500066 |
| 24 | 45500609 | TOP CAP | 1 | 48500065 |
| 25 | 455006** | DRUM | 1 | CONTACT DEALER |
| 26 | | SKT HD CAP SCREW M6X30 | 6 | 48500066 |
| 27 | B12987 | 0 RING 48X1.5 | 1 | 48500065 |
| 28 | B2092 | CIRCLIP | 1 | 48000017 |



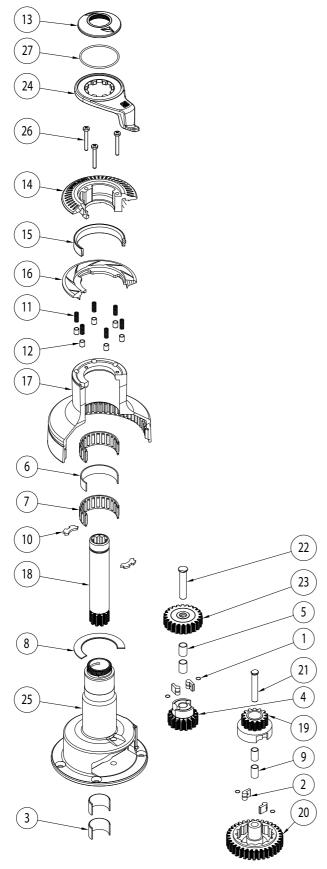
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 5 | 48000014 |
| 2 | 1260/8 | PAWL SMALL | 5 | 48000014 |
| 3 | 15000377 | BEARING SLEEVE | 1 | 48000014 |
| 4 | 15000464 | RATCHET GEAR | 1 | 15000464 |
| 5 | 15000466 | DRUM WASHER | 1 | 48000454 |
| 6 | 15000827 | IDLER GEAR | 1 | 15000827 |
| 7 | 15000461 | GEAR RETAINER | 1 | 48300060 |
| 8 | 15008007 | NEEDLE BEARING | 2 | 48000454 |
| 9 | 450000** | TOP CAP | 1 | CONTACT DEALER |
| 10 | 45000003 | FEEDER ARM | 1 | 48000478 |
| 11 | 45000008 | STRIPPER RING | 1 | 48000447 |
| 12 | 450000** | DRUM | 1 | CONTACT DEALER |
| 13 | 48016017 | CENTRE STEM | 1 | 48016017 |
| 14 | 45000023 | GEAR SPINDLE | 1 | 45000023 |
| 15 | 45000033 | GEAR SPINDLE SLEEVE | 1 | 48500060 |
| 16 | 45000037 | MAIN SPINDLE | 1 | 45000037 |
| 17 | | M5X30 SLT CHS HD | 3 | 48000447 |
| 18 | 45000085 | UPPER CROWN | 1 | 48000447 |
| 19 | 45000089 | LOWER CROWN | 1 | 48000447 |
| 20 | 45000102 | COLLET | 2 | 48000446 |
| 21 | 45000112 | SPRING | 3 | 48000447 |
| 22 | 45000113 | SPRING CUP | 3 | 48000447 |
| 23 | B**** | 0 RING | 1 | 48000014 |



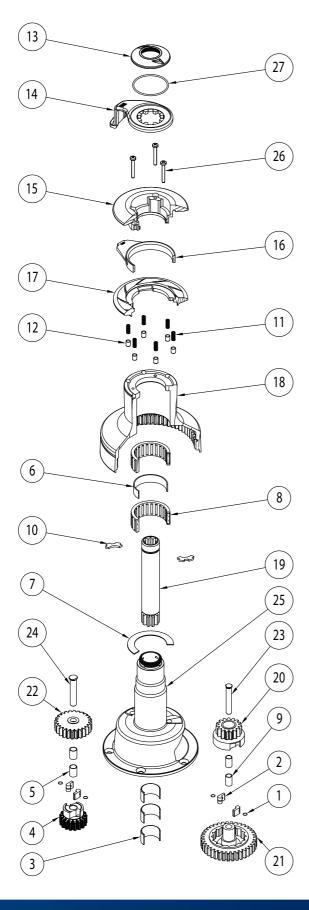
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000378 | GEAR SPINDLE SLEEVE | 1 | 48000465 |
| 5 | 15000466 | DRUM WASHER | 1 | 48000455 |
| 6 | 15008007 | NEEDLE BEARING | 2 | 48000455 |
| 7 | 45000029 | GEAR SPINDLE SLEEVE | 3 | 48000465 |
| 8 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 9 | 45000102 | COLLET | 2 | 48000446 |
| 10 | 45000103 | FEEDER ARM | 1 | 48000480 |
| 11 | 45000105 | UPPER CROWN | 1 | 48000448 |
| 12 | 45000108 | STRIPPER RING | 1 | 48000448 |
| 13 | 45000109 | LOWER CROWN | 1 | 48000448 |
| 14 | 45000112 | SPRING | 6 | 48000448 |
| 15 | 45000113 | SPRING CUP | 6 | 48000448 |
| 16 | 4500011* | DRUM | 1 | CONTACT DEALER |
| 17 | 48030017 | CENTRE STEM | 1 | 48030017 |
| 18 | 45000118 | MAIN SPINDLE | 1 | 45000118 |
| 19 | 45000119 | PAWL GEAR | 1 | 48000465 |
| 20 | 45000120 | RATCHET GEAR | 1 | 45000120 |
| 21 | 45000121 | PAWL GEAR | 1 | 48000465 |
| 22 | 45000122 | RATCHET GEAR | 1 | 48000465 |
| 23 | 45000123 | GEAR SPINDLE | 2 | 48300027 |
| 24 | | PAN HEAD SCREW | 3 | 48000448 |
| 25 | B**** | O RING | 1 | 48000019 |



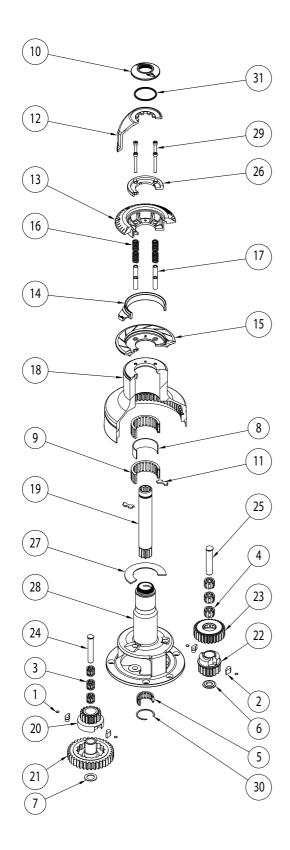
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000378 | GEAR SPINDLE SLEEVE | 1 | 48000467 |
| 5 | 15000466 | DRUM WASHER | 1 | 48000456 |
| 6 | 15000491 | BEARING SPACER | 1 | 48000456 |
| 7 | 15008007 | NEEDLE BEARING | 2 | 48000456 |
| 8 | 45000029 | GEAR SPINDLE SLEEVE | 3 | 48000464 |
| 9 | 45000102 | COLLET | 2 | 48000446 |
| 10 | 45000105 | UPPER CROWN | 1 | 48000449 |
| 11 | 45000108 | STRIPPER RING | 1 | 48000449 |
| 12 | 45000109 | LOWER CROWN | 1 | 48000449 |
| 13 | 45000112 | SPRING | 6 | 48000449 |
| 14 | 45000113 | SPRING CUP | 6 | 48000449 |
| 15 | 45000119 | PAWL GEAR | 1 | 48000464 |
| 16 | 45000123 | GEAR SPINDLE | 2 | 48300027 |
| 17 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 18 | 45000203 | FEEDER ARM | 1 | 48000482 |
| 19 | 4500021* | DRUM | 1 | CONTACT DEALER |
| 20 | 48040040 | CENTRE STEM | 1 | 48040040 |
| 21 | 45000218 | MAIN SPINDLE | 1 | 45000218 |
| 22 | 45000220 | RATCHET GEAR | 1 | 45000222 |
| 23 | 45000221 | PAWL GEAR | 1 | 48000467 |
| 24 | 45000222 | RATCHET GEAR | 1 | 48300029 |
| 25 | | PAN HEAD SCREW | 3 | 48000449 |
| 26 | B**** | O RING | 1 | 48000019 |



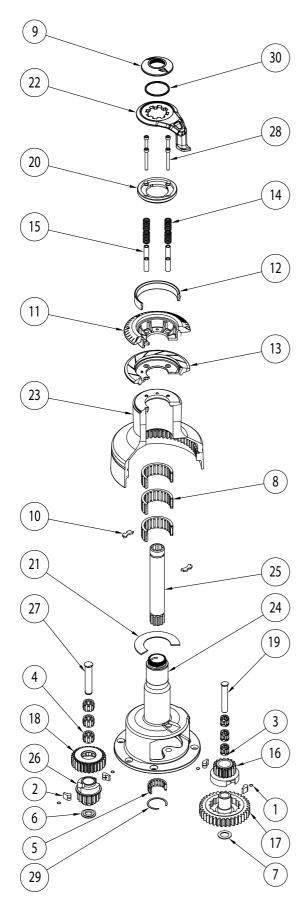
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 2 | 48000019 |
| 4 | 15000397 | PAWL GEAR | 1 | 48000468 |
| 5 | 15000398 | SPINDLE SLEEVE | 2 | 48000468 |
| 6 | 15000404 | SPACER | 1 | 48000457 |
| 7 | 15010007 | ROLLER BEARING | 2 | 48000457 |
| 8 | 15044116 | DRUM WASHER | 1 | 48000457 |
| 9 | 45000029 | GEAR SPINDLE SLEEVE | 2 | 48000469 |
| 10 | 45000102 | COLLET | 2 | 48000446 |
| 11 | 45000112 | SPRING | 6 | 48000450 |
| 12 | 45000113 | SPRING CUP | 6 | 48000450 |
| 13 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 14 | 45000305 | UPPER CROWN | 1 | 48000450 |
| 15 | 45000308 | STRIPPER RING | 1 | 48000450 |
| 16 | 45000309 | LOWER CROWN | 1 | 48000450 |
| 17 | 4500031* | DRUM | 1 | CONTACT DEALER |
| 18 | 45000318 | MAIN SPINDLE | 1 | 45000318 |
| 19 | 45000319 | PAWL GEAR | 1 | 48000469 |
| 20 | 45000320 | RATCHET GEAR | 1 | 48300036 |
| 21 | 45000323 | GEAR SPINDLE | 1 | 45000323 |
| 22 | 45000324 | GEAR SPINDLE | 1 | 45000324 |
| 23 | 45000333 | RATCHET GEAR | 1 | 45000333 |
| 24 | 45000355 | FEEDER ARM | 1 | 48000484 |
| 25 | 48046017 | CENTRE STEM | 1 | 48046017 |
| 26 | | PAN HEAD SCREW | 3 | 48000450 |
| 27 | B**** | O RING | 1 | 48000019 |



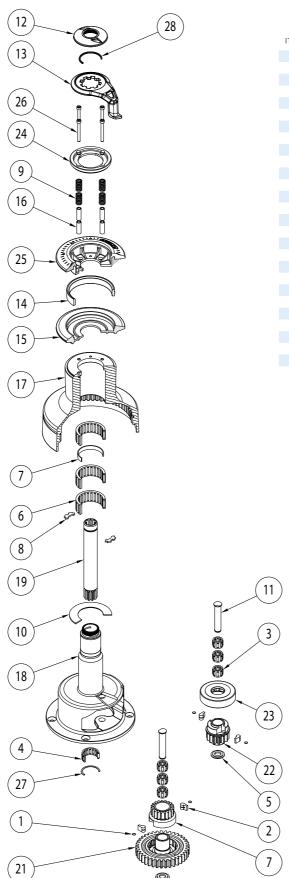
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|---------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000019 |
| 2 | 1260/8 | PAWL SMALL | 4 | 48000019 |
| 3 | 15000377 | BEARING SLEEVE | 3 | 48000019 |
| 4 | 15000397 | PAWL GEAR | 1 | 48000468 |
| 5 | 15000398 | SPINDLE SLEEVE | 2 | 48000468 |
| 6 | 15000404 | SPACER | 1 | 48000458 |
| 7 | 15044116 | DRUM WASHER | 1 | 48000458 |
| 8 | 15044121 | ROLLER BEARING | 2 | 48000458 |
| 9 | 45000029 | GEAR SPINDLE SLEEVE | 2 | 48000470 |
| 10 | 45000102 | COLLET | 2 | 48000446 |
| 11 | 45000112 | SPRING | 6 | 48000451 |
| 12 | 45000113 | SPRING CUP | 6 | 48000451 |
| 13 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 14 | 45000403 | FEEDER ARM | 1 | 48000485 |
| 15 | 45000405 | UPPER CROWN | 1 | 48000451 |
| 16 | 45000408 | STRIPPER RING | 1 | 48000451 |
| 17 | 45000409 | LOWER CROWN | 1 | 48000451 |
| 18 | 4500041* | DRUM | 1 | CONTACT DEALER |
| 19 | 45000418 | MAIN SPINDLE | 1 | 45000418 |
| 20 | 45000419 | PAWL GEAR | 1 | 48000470 |
| 21 | 45000420 | RATCHET GEAR | 1 | 48300043 |
| 22 | 45000422 | RATCHET GEAR | 1 | 45000422 |
| 23 | 45000423 | GEAR SPINDLE | 1 | 45000423 |
| 24 | 45000424 | GEAR SPINDLE | 1 | 45000424 |
| 25 | 48048040 | CENTRE STEM | 1 | 48048040 |
| 26 | | PAN HEAD SCREW | 3 | 48000451 |
| 27 | B**** | O RING | 1 | 48000019 |



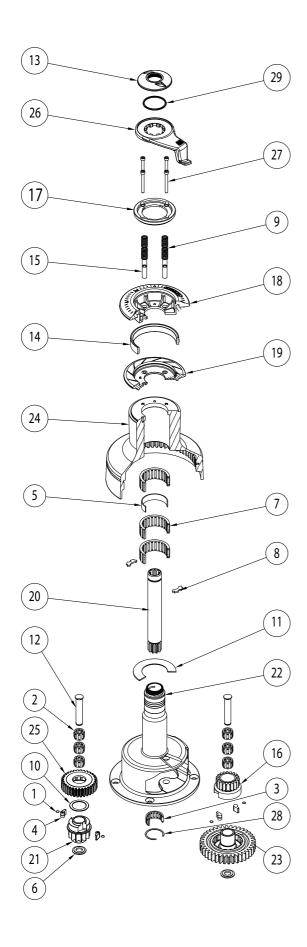
| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|--------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000017 |
| 2 | 1264/8 | PAWL | 4 | 48000017 |
| 3 | 1300/SA2 | BEARING ASSY | 3 | 48000017 |
| 4 | 15000017 | ROLLER BEARING | 3 | 48000473 |
| 5 | 15000019 | ROLLER BEARING | 1 | 48000019 |
| 6 | 15000646 | WASHER | 1 | 48000473 |
| 7 | 15000981 | WASHER | 1 | 48000017 |
| 8 | 15042012 | SPACER | 1 | 48000459 |
| 9 | 15044121 | ROLLER BEARING | 2 | 48000459 |
| 10 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 11 | 45000102 | COLLET | 2 | 48000446 |
| 12 | 45000503 | FEEDER ARM | 1 | 48000486 |
| 13 | 45000505 | UPPER CROWN | 1 | 48000452 |
| 14 | 45000508 | STRIPPER RING | 1 | 48000452 |
| 15 | 45000509 | LOWER CROWN | 1 | 48000452 |
| 16 | 45000512 | SPRING | 4 | 48000452 |
| 17 | 45000513 | SPACER | 4 | 48000452 |
| 18 | 4500051* | DRUM | 1 | CONTACT DEALER |
| 19 | 45000518 | SPINDLE | 1 | 45000518 |
| 20 | 45000519 | PAWL GEAR | 1 | 48000470 |
| 21 | 45000520 | RATCHET GEAR | 1 | 48300043 |
| 22 | 45000521 | PAWL GEAR | 1 | 48000473 |
| 23 | 45000522 | RATCHET GEAR | 1 | 45000422 |
| 24 | 45000523 | GEAR SPINDLE | 1 | 45000423 |
| 25 | 45000524 | GEAR SPINDLE | 1 | 45000424 |
| 26 | 48000452 | SPRING RETAINER | 1 | 45000525 |
| 27 | 45000534 | DRUM WASHER | 1 | 48000459 |
| 28 | 45000517 | CENTRE STEM | 1 | 45000517 |
| 29 | | SKT HD CAP SCREW M6 X 50 | 4 | 48000452 |
| 30 | B2092 | CIRCLIP | 1 | 48000017 |
| 31 | B**** | O RING | 1 | 48000055 |



| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|-------------|--------------------------|-----|----------------|
| 1 | 1260/7 | PAWL SPRING | 4 | 48000017 |
| 2 | 1264/8 | PAWL | 4 | 48000017 |
| 3 | 1300/SA2 | BEARING ASSY | 3 | 48000017 |
| 4 | 15000017 | ROLLER BEARING | 3 | 48000473 |
| 5 | 15000019 | ROLLER BEARING | 1 | 48000019 |
| 6 | 15000646 | WASHER | 1 | 48000473 |
| 7 | 15000981 | WASHER | 1 | 48000017 |
| 8 | 15044121 | ROLLER BEARING | 3 | 4000460 |
| 9 | 450001** | TOP CAP | 1 | CONTACT DEALER |
| 10 | 45000102 | COLLET | 2 | 48000446 |
| 11 | 45000505 | UPPER CROWN | 1 | 48000452 |
| 12 | 45000508 | STRIPPER RING | 1 | 48000452 |
| 13 | 45000509 | LOWER CROWN | 1 | 48000452 |
| 14 | 45000512 | SPRING | 4 | 48000452 |
| 15 | 45000513 | SPACER | 4 | 48000452 |
| 16 | 45000519 | PAWL GEAR | 1 | 48000472 |
| 17 | 45000520 | RATCHET GEAR | 1 | 45000520 |
| 18 | 45000522 | RATCHET GEAR | 1 | 45000522 |
| 19 | 45000523 | GEAR SPINDLE | 1 | 45000523 |
| 20 | 45000525 | SPRING RETAINER | 1 | 48000452 |
| 21 | 45000534 | DRUM WASHER | 1 | 4000460 |
| 22 | 45000603 | FEEDER ARM | 1 | 48000487 |
| 23 | 4500061* | DRUM | 1 | CONTACT DEALER |
| 24 | 45000617SPA | CENTRE STEM | 1 | 45000617SPA |
| 25 | 45000618 | SPINDLE | 1 | 45500504 |
| 26 | 48000473 | PAWL GEAR | 1 | 45000621 |
| 27 | 45000624 | GEAR SPINDLE | 1 | 45000624 |
| 28 | | SKT HD CAP SCREW M6 X 50 | 4 | 48000452 |
| 29 | B2092 | CIRCLIP | 1 | 48000017 |
| 30 | B**** | O RING | 1 | 48000017 |



| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|--------------------|--------------------------|-----|----------------|
| 1 | 1260/7 PAWL SPRING | | 4 | 48000017 |
| 2 | 1264/8 | PAWL | 4 | 48000017 |
| 3 | 15000017 | ROLLER BEARING | 6 | 48000017 |
| 4 | 15000019 | ROLLER BEARING | 1 | 48000019 |
| 5 | 15000646 | WASHER | 2 | 48000473 |
| 6 | 15044121 | ROLLER BEARING | 3 | 48000461 |
| 7 | 15065115 | SPACER | 1 | 48000461 |
| 8 | 45000102 | COLLET | 2 | 48000446 |
| 9 | 45000512 | SPRING | 4 | 48000453 |
| 10 | 45000534 | WASHER | 1 | 48000461 |
| 11 | 45000624 | GEAR SPINDLE | 2 | 45000523 |
| 12 | 450007** | TOP CAP | 1 | CONTACT DEALER |
| 13 | 45000703 | FEEDER ARM | 1 | 48000488 |
| 14 | 45000708 | STRIPPER RING | 1 | 48000453 |
| 15 | 45000709 | LOWER CROWN | 1 | 48000453 |
| 16 | 45000713 | SPACER | 4 | 48000453 |
| 17 | 4500071* | DRUM | 1 | CONTACT DEALER |
| 18 | 45000717 | CENTRE STEM | 1 | 45000717 |
| 19 | 45000718 | SPINDLE | 1 | 45000718 |
| 20 | 45000719 | PAWL GEAR | 1 | 48000472 |
| 21 | 45000720 | RATCHET GEAR | 1 | 45000520 |
| 22 | 45000721 | PAWL GEAR | 1 | 48000473 |
| 23 | 45000722 | RATCHET GEAR | 1 | 45000522 |
| 24 | 45000725 | SPRING RETAINER | 1 | 48000453 |
| 25 | 45000785 | UPPER CROWN | 1 | 48000453 |
| 26 | | SKT HD CAP SCREW M6 X 55 | 4 | 48000453 |
| 27 | B2092 | CIRCLIP | 1 | 48000017 |
| 28 | B**** | O RING | 1 | 48000017 |



| ITEM | PART NO | DESCRIPTION | QTY | KIT NO |
|------|----------|------------------------|-----|----------------|
| 1 | 1260_7 | PAWL SPRING | 4 | 48000017 |
| 2 | 15000017 | ROLLER BEARING | 6 | 48000017 |
| 3 | 15000019 | ROLLER BEARING | 1 | 48000017 |
| 4 | 15000301 | SUPER PAWL LARGE | 4 | 15000301 |
| 5 | 15000404 | SPACER | 1 | 48000462 |
| 6 | 15000646 | WASHER | 2 | 48000017 |
| 7 | 15044121 | ROLLER BEARING | 3 | 48000462 |
| 8 | 45000102 | COLLET | 2 | 48000446 |
| 9 | 45000512 | SPRING | 4 | 48500066 |
| 10 | 45000533 | WASHER | 1 | 48000476 |
| 11 | 45000534 | DRUM WASHER | 1 | 48000462 |
| 12 | 45000624 | GEAR SPINDLE | 2 | 45000624 |
| 13 | 450007** | TOP CAP | 1 | CONTACT DEALER |
| 14 | 45000708 | STRIPPER RING | 1 | 48000453 |
| 15 | 45000713 | SPACER | 4 | 45000713 |
| 16 | 45000719 | PAWL GEAR | 1 | 48000475 |
| 17 | 45000725 | TBD | 1 | 48000453 |
| 18 | 45000785 | UPPER CROWN | 1 | 48000453 |
| 19 | 45000789 | LOWER CROWN | 1 | 48000453 |
| 20 | 45000818 | MAIN SPINDLE | 1 | 45000818 |
| 21 | 45000821 | PAWL GEAR | 1 | 48000476 |
| 22 | 45000850 | CENTRE STEM 64ST | 1 | 45000850 |
| 23 | 45000851 | RATCHET GEAR | 1 | 45000851 |
| 24 | 4500085* | DRUM | 1 | CONTACT DEALER |
| 25 | 45005183 | RATCHET GEAR | 1 | 48000476 |
| 26 | 48000490 | RATCHET GEAR | 1 | 45005184 |
| 27 | Bo756 | M6X55 SKT HD CAP SCREW | 4 | 48000453 |
| 28 | B2092 | CIRCLIP | 1 | 48000017 |
| 29 | B6061 | O_RING | 1 | 48000017 |



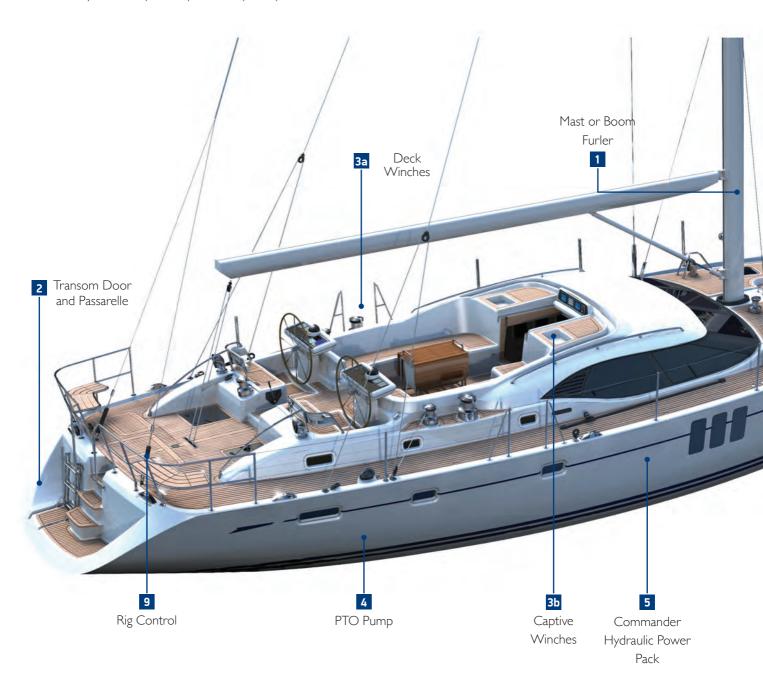
Hydraulic Integrated Engineering Systems

A hydraulic power system can be engineered to perform many tasks, from hauling up the anchor to furling the sails. With over 30 years of experience, Lewmar can design a bespoke solution to suit your particular vessel.

With our range of power packs and control systems we can offer simple single function packs, to multi-function and multi-source systems for yachts up to 90m (300 ft).

Selection of the most suitable system will depend on a number of factors, but the following pages will provide valuable information which will enable owners, designers and builders to construct a working solution specifically to suit their requirements.

For more details please contact custom@lewmar.com





1 Mast or Boom Furler

Lewmar have a hydraulic system that can control any of the world's furler manufacturer's units.

Transom Door and Passarelle

Lewmar can provide control systems for different actuator methods, whether they are cylinders of rotary actuators, balanced, or unbalanced systems.

3a Deck Winches

Sail handling winches whether conventional or self-tailing.

3b Captive Winches

Powered Line Management System below deck.

4 PTO Pump

Pumps fitted to either main engine or generator, or both. Primarily to power thrusters but also to power all hydraulic systems.

5 Commander Hydraulic Power Pack

A variety of power packs are available. Single/Multiple motor, various voltages, custom reservoirs, the list is endless.

6 Bow Thrusters

Lewmar offer a wide range of thrusters (See Thruster section for details). The thruster can be powered from main engine or generator.

7 Anchor Windlass

The Lewmar anchor windlass is an ideal addition to the system, and offers an excellent level of performance.

8 Headsail Furlers

Hydraulic headsail furlers from various manufacturers are a stylish and reliable way to control the size of the headsail. Valves and control systems are available for headsails.

g Rig Control

The sail handling system can be also integrated with rig control cylinders such as back stay and boom vang for rapid take-up facility.



Vortex Reservoir

The patent pending Vortex Hydraulic Reservoir actively removes air from a vessels hydraulic system during any hydraulic product operation using the internally created spiralling, high-speed vortex. As only a small amount of air remains entrapped in the oil, a smaller oil reserve is required - up to 95% less stored oil is required with a Vortex Reservoir. With minimal air in the system, hydraulic motor performance is improved by 20%.

The unique internal flow pattern, created where the returned oil enters the reservoir, removes both free and dissolved air within the hydraulic system. Once the system is installed and bled, no air can be reintroduced into the system, therefore giving a higher performance between oil changes

The bellow allows for thermal expansion of the system and acts as an oil reserve when cylinders are used. The small space envelope required for 'Vortex' means it will fit into boats as small as 40ft.

- Reservoir weight reduction of 63% 93%
- Huge reductions of up to 93% of required oil volume
- Smaller pump and suction lines can be used, significantly reducing installed system weight
- Higher system efficiency leads to increased hydraulic motor performance of up to 20%
- Stronger sheet winch and windlass pulls, and more powerful thrust can be achieved
- Superior pump protection with the removal of entrapped air
- Closed systems means no chance of air and oil mixing once the system is primed and commissioned



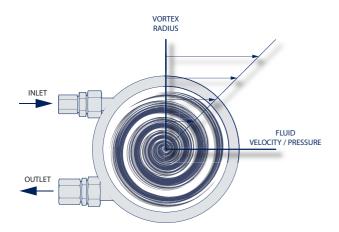


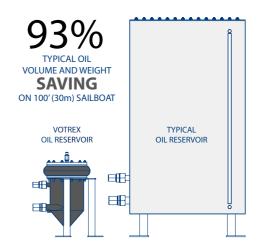




Weight Saving

Weight reduction is a key element in all modern boat design - power and sail - as such, removing excess quantities of heavy stored oil is an efficient way to save weight. The storage tank is only used to cool oil within the system and reduce cavitation. Using Lewmar's Vortex can reduce the hydraulic powerpack weight by as much as 93% while improving running efficiency.





Typical Weight for Reservoir and Hydraulic Oil

| | | 60FT | 90FT | 120FT | 150 |
|---|---------------------------|------|-------|-------|-------|
| VORTEX RESERVOIR AND OIL 13KG 16KG 32KG 36K | TYPICAL RESERVOIR AND OIL | 35KG | 244KG | 431KG | 508KG |
| | VORTEX RESERVOIR AND OIL | 13KG | 16KG | 32KG | 36KG |
| % WEIGHT REDUCTION 63% 93% 92% 93 | % WEIGHT REDUCTION | 63% | 93% | 92% | 93% |

The evolution of global superyacht regattas has moved the superyacht sailboat market from a predominantly cruising market to high-performance designs. The revolutionary Vortex powerpack design significantly reduces the amount of air within the oil. Usual systems run at 12% air in the oil, but the Vortex design can reduce this to less than 3% - leading to increased efficiency in the pulls of sheet winches, vital in race situations.









Lewmar Hydraulic Cylinders

Lewmar now offer a range of hydraulic cylinders specifically designed and optimised for marine use. Available in black anodized Aluminium or full Stainless Steel our cylinders can be single or double-acting. Choose from a range of standard cylinders or specify a custom stroke to suit your application.

Designed and built in our UK factory, end fittings and attachments can be tailor made to suit your installation and to match the full range of Lewmar hardware.

- Stoke length to 2800mm
- -10 to -90 as standard
- Custom larger cylinders on request
- Custom mounting
- Integrated ends
- Position indicating option
- Locking option







Hydraulic Integrated Engineering Systems

Four main assemblies need to be carefully considered to enable the system to be correctly specified.

- Power pack suitably sized to match hydraulic functions such as winches, windlasses, furlers, cylinder etc.
- **Directional control valve** stations, these can be on one manifold block with one to six valves, or in any combination of manifolds and valves. A range of valve assemblies are available to suit operating requirement of hydraulic functions.
- **Control System** is a bespoke control system with customised operator interface and helm controls, with additional optional extras such as stainless steel mounting panel.
- **Return line oil filter** maintains a good level of oil cleanliness which is essential to the performance and reliability to the hydraulic system.



Panels

Control panels designed and manufactured in a variety of weather resistant materials and components provide overall system and individual function control, from a helm station or other location as desired.

Features multicoloured indicating push buttons and switching or proportional joysticks for control of thrusters, captive winches and sail furling systems.

PowerPack

When a system has more than one electric motor-pump, the control system will tailor the operation of each motor to start and stop individually or in conjunction in order to meet the hydraulic requirements efficiently and to reduce motor wear and strain on the power supply. All motors are thermally monitored and made safe in case of overheating. Both AC & DC motors can be provided with an option with variable speed control giving soft starting and idle speed control to improve response times, further reducing wear.

PTO Pump Control

The control system can monitor the main engine speed or a generator status to engage a pump on the PTO when power is available and automatically disengage to reduce wear and power wastage.



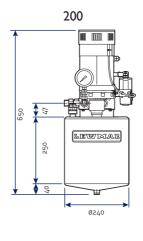


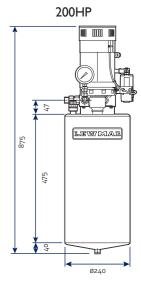
Commander 200 & 200HP

The concept of the Commander system is flexibility, its modular ordering format allows the required specification to be suited to each vessel as necessary.

The Commander 200 is a compact hydraulic power unit capable of operating winches, anchor windlasses, furling systems and auxiliary functions one at a time. Both 12 and 24 volt versions feature a fan cooled electric motor, offering high pressure and flow performance coupled to a long duration running time, together with thermal protection safety switches.







Hydraulic Specification

| | 200 | 200 HI-PRESSURE |
|--------------------|------------------------|--------------------------|
| OPERATING PRESSURE | 140 BAR (2030 P.S.I.) | 230 BAR (3300 P.S.I.) |
| MAX FLOW | 16L/MIN (4.3 US GAL) | gL/MIN (2.3 US GAL) |
| RESERVOIR CAPACITY | 9 LITRES (2.4 US GAL) | 19.5 LITRES (5.2 US GAL) |
| HYDRAULIC OIL TYPE | ISO VISCOSITY GRADE 32 | ISO VISCOSITY GRADE 32 |

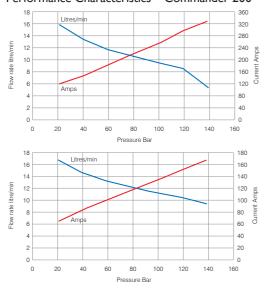
Electrical Specification

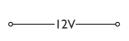
12 and 24 Volt motors nominally rated to 3kW. Supply voltage limits, \pm 15%

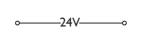
At extreme tolerances the unit will operate with de-rated performance.

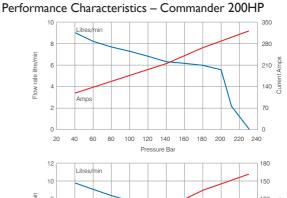
Small and large tank capacity versions available - contact custom@lewmar.com for details

Performance Characteristics – Commander 200







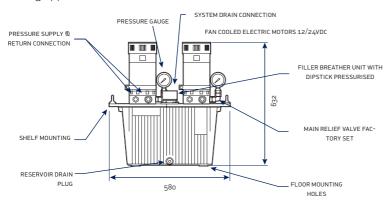




Commander 400

The Commander 400 continues the flexibility of the Commander 200 but with increased power. It is available in 12 or 24 volt versions, both are fan cooled. The Commander 400 is ideal for vessels which require high flow for sailing functions.

Variations of this Commander using high pressure (230 bar/3250 psi) motor-pumps are available, typically suitable for cylinder sheeting applications.

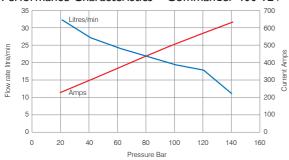




Hydraulic Technical Specification - Commander 400

| OPERATING PRESSURE | 140 BAR (2030 P.S.I.) |
|--------------------|------------------------|
| MAX FLOW | 32L/MIN (8.4 US GAL) |
| RESERVOIR CAPACITY | 27 LITRES (7.1 US GAL) |
| HYDRAULIC OIL TYPE | ISO VISCOSITY GRADE 32 |

Performance Characteristics - Commander 400 12V

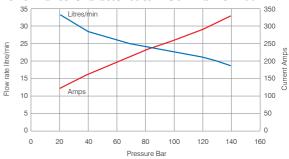


Electrical Specification

12 and 24 volt motors nominally rated to 3kW and fan cooled. Supply voltage limits, \pm 15%

At extreme tolerances the unit will operate with de-rated performance.

Performance Characteristics – Commander 400 24V



Commander 400HP also available. Contact your Lewmar representative for more information.



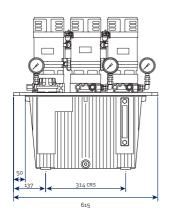
Commander 600

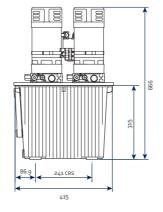
The Commander 600 is an increased step up from the Commander 400, where the addition of a third motor-pump which provides greater flexibility in multifunction use.

For example, tacking/gybing where hydraulic furlers are used in conjunction with winches.

12V DC version and custom tank designs available on request.

Variations of this Commander using high pressure (230 bar/3250 psi) motor-pumps are available, typically suitable for cylinder sheeting applications.







Hydraulic Technical Specification - Commander 600

| OPERATING PRESSURE | 140 BAR (2030 P.S.I.) |
|--------------------|-------------------------|
| MAX FLOW | 48L/MIN (12.7 US GAL) |
| RESERVOIR CAPACITY | 40 LITRES (10.6 US GAL) |
| HYDRAULIC OIL TYPE | ISO VISCOSITY GRADE 32 |

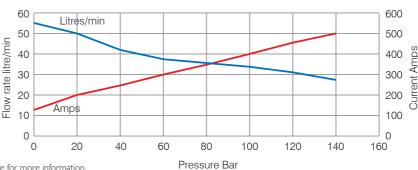
Electrical Specification

12 and 24 volt motors nominally rated to 3kW and fan cooled.

Supply voltage limits, ± 15%

At extreme tolerances the unit will operate with de-rated performance.

Performance Characteristics - Commander 600 24V



 $Commander\ 600 HP\ also\ available.\ Contact\ your\ Lewmar\ representative\ for\ more\ information.$



Custom Commander Systems

The Lewmar range of Custom Commanders is very comprehensive. This type of system allows the design of a fully integrated hydraulic package to be installed and ensures the builder has a fully engineered package. Custom commander systems can be fully integrated with Lewmar Thrusters powered by PTO Pumps. This allows the use of a single reservoir, saving valuable space.

- DC motors from 3–15 kW
- Multi motor combinations
- 3 phase AC versions up to 15kW •
- AC/DC versions
- Custom designed reservoirs
- Remote valve groups
- Proportional control
- PLC control
- Enclosure HMI showing alarms and operating conditions

- Field bus control
- Electric soft start / speed control
- Various alarm outputs
- Fan cooled motors
- Thermal overload protection
- Custom program design
- Supported by Lewmar for the lifespan of the system
- Modbus interface

It also allows the use of the Thruster pump to act as an additional power source for the sailing system hydraulics. This can offer considerable benefits in the reduction of battery charging and provide a more efficient power source. Lewmar Custom Commander Systems have been used on over 200 yachts in the last 15 years, a testament to the popularity, and reliability of the product.





Custom Power Packs & Reservoirs



- Reservoir sized to match the requirements of the hydraulic system to store and condition the oil while shaped to fit into the space available in the yacht.
- Multiple electric motor pump sets can be mounted onto the reservoir to provide a compact power solution using various sizes of AC or DC motor pump units to match the power requirements of the hydraulic system in the most efficient way.
- Bulkhead or Foot mounted reservoirs are available for PTO or stand alone pump only hydraulic systems.

Pump Drives

The real art of achieving an integrated system installation that is efficient and trouble-free is the design of the pump drive system. Lewmar have hundreds of designs that have been giving reliable service for years.

The design of such a system is a very careful balance between the performance characteristics of the power source (main engine, gearbox or generator), choice of thruster drive motor, and set up of the control system.

Lewmar specify variable displacement pump and fixed displacement pump drive systems dependant on system requirements.

These systems offer fingertip control of power selection, are extremely energy efficient as you only generate the power demanded and generate less noise. The various types of drive offer different benefits, but all depend on correct engineering.

A range of modular valve solutions are available to tailor the hydraulic power for precise control of any individual hydraulic function





Main Engine Pump Drive - PTO (Power Take Off)

Careful consultation between Lewmar and the engine manufacturer will assure a pump drive that will give a good spread of power from idle to higher RPM. Obviously some engines are better suited than others but most of the higher torque models will offer good results. Lewmar recommend the fitment of an electromagnetic clutch in order that the pump can be disconnected when not required. This saves energy, heat and noise. A speed trip can also be fitted to ensure that the engine is not stalled at low RPM, or the pump is not damaged at high RPM.

Gearbox Drive

Some gearbox manufacturers can provide a PTO output if specified. Some are clutched and some are direct coupled. Again, with careful consultation we can provide a pump drive to suit. Even without a clutch we can provide a speed sensor that will allow the pump to run at standby if the RPM are too low or too high.

Generator Drive

If the generator can provide sufficient usable power, this is an excellent way of achieving thrust without disturbing the main engine. The major generator manufacturers can provide a clutched PTO output if specified. Lewmar can then match a pump to suit. The advantage of this system is that the generator runs at a constant high RPM, so the pump size can be smaller for the same horsepower. No speed trip is required, as the RPM is constant.

- Simple on-off or fully proportional control is available
- Valves can control pressure ranges up to 350 bar (5000 psi)
- In the case of specialist hydraulic functions a custom designed valve manifold can be supplied.

Valves









Control System

A control system is required for the correct and safe operation of the hydraulic system. It is used to make sure that when a deck switch or joystick is pushed, the right amount of hydraulic power is supplied to the hydraulic function from the correct power source.

The control system design is tailored to the needs of the customer and the requirements of the hydraulic system. Depending on complexity, the package can range from a barebone system as available with the Commander 200/400 to a PLC (Programmable Logic Controller) system, with the option to extend to a FieldBus control network for comprehensive control and automation.

Oil Status

The control system monitors the system oil levels, filtration and temperature providing user feedback with audible alarms and indicators and will disable the system should the oil level reach minimum to prevent damage.

PLC Control

Programmable controller, extremely robust and reliable, simple to install. Every PLC system custom designed to match the complexity and needs of the hydraulic system.

- Easy to troubleshoot using built in input & output indicators
- Each PLC is individually programmed & tested. Lewmar keeps a copy of the program for ongoing support purposes

Remote Access and Upgrades

Display screen showing up to date information, any faults and fault history, along with an event log. The screen aids in troubleshooting any problems that may occur with ease. Remote access allows Lewmar to update programs accordingly.

PLC Field Bus

This is a more advanced PLC control system which controls the hydraulics using an ASi (Actuator Sensor Interface) network. This is a simple, robust and reliable network which distributes control of the hydraulic system throughout the yacht using simple wiring and IP65 connection modules making it a perfect match for the environment.







Case Study

A typical hydraulic system which can be found on a 60-70ft yacht featuring a custom-designed Commander 400 and a pump from a generator-clutched PTO output. The PTO pump is sized to match the thruster and powers the thruster only in docking mode while the Commander powers the rest of the system. However, when sailing the PTO pump will power all non thruster functions leaving the Commander as backup and for night/quiet operation.

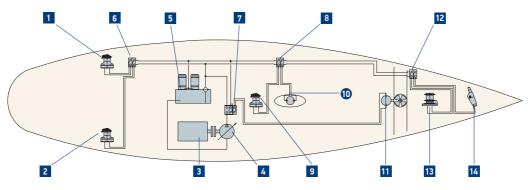
The control system is designed to use a barebones Commander 3/8 control box and a custom stainless control panel with a proportional paddle joystick giving fine thruster control.











18m (60ft) Typical Hydraulic Schematic

| POSITION | DESCRIPTION | TYPE | PRESSURE FLOW |
|----------|---------------------------------|-----------------------|---------------------------------------|
| 1 | PRIMARY WINCH | LEWMAR 70/3 | 140 BAR - 20 L/MIN |
| 2 | PRIMARY WINCH | LEWMAR 70/3 | 140 BAR - 20 L/MIN |
| 3 | GENERATOR SET WITH CLUTCHED PTO | VARIOUS | |
| 4 | VARIABLE DISPLACEMENT PUMP | 41 CC/REV | 210 BAR - 53 L/MIN |
| 5 | 24 V DC HYDRAULIC POWER PACK | CUSTOM COMMANDER 400 | 140 BAR - 30 L/MIN |
| 6 | AFT WINCH VALVE GROUP | 2 STATION VALVE GROUP | |
| 7 | PTO BACKUP/THRUSTER VALVE | 2 STATION VALVE GROUP | 190 BAR – 53 L/MIN 140 BAR – 30 L/MIN |
| 8 | MAST WINCH/FURLER VALVE GROUP | 2 STATION VALVE GROUP | |
| 9 | HALYARD/OUTHAUL WINCH | LEWMAR 55SHST | 140 BAR - 20 L/MIN |
| 10 | IN MAST MAIN FURLER | VARIOUS | 140 BAR - 20 L/MIN |
| 11 | 15HP TUNNEL THRUSTER | LEWMAR 250TTH | 190 BAR - 53 L/MIN |
| 12 | FWD WINDLASS/FURLER VALVE GROUP | 2 STATION VALVE GROUP | |
| 13 | GYPSY CAPSTAN ANCHOR WINDLASS | LEWMAR V6 | 140 BAR - 30 L/MIN |
| 14 | HEADSAIL FURLER | VARIOUS | 140 BAR - 15 L/MIN |



8. Hardware

Lewmar Block Range



Page 291 Control Blocks - Control lines & hand loads

- Long glass-fibre reinforced composite cheeks
- Stainless steel ball bearings



Page 296 Synchro Cruising blocks

- Stainless steel straps and glass-fibre reinforced cheeks
- · High density, free-spin plain bearing

- Easy to use, patented shackle post lock
- Sheave / bearing / pin & line size optimised for efficiency



Page 301 HTX Range - Racing and Cruising Blocks

- · Alloy cheeks
- Side thrust ball bearings
- Head design inspired by racing blocks

- · High load capacities
- Stainless Steel Range Available



Page 305 Racing Range

- Monocoque alloy construction
- Ball and roller bearings

- Light weight High strength to weight ratio
- High level of type optimisation webbing, runner: Halyard blocks etc



Page 314 Special Application Blocks

- Snatch Blocks
- · Pivoting Lead Blocks

• Loop Blocks



Page 317 Custom Hardware for Superyacht Projects

- Performance hardware suitable for high loads generated on superyachts
- Designed to meet individual functional specification
- Customised to blend with overall design aesthetic



Page 318 Soft Loop Blocks

- Lightweight, ultra-tough continous loop blocks
- Designed for high-performance sailing

Note: Lewmar blocks are intended for sail control line handling on sail boats only.

Buyers intending to use them for any other purpose should seek independent professional advice as to their suitability. Lewmar accepts no liability arising from such other uses.



Technical Reference - Choosing the right purchase system

Lewmar manufactures a diverse range of blocks to suit all marine applications. This guide aims to help you to choose the best purchase system and the appropriate Lewmar products to suit your application.

Why do we need purchase systems?

As a guide, the average person can:

- Pull vertically down a force equivalent to their body weight (for a short period)
- When fully braced, pull intermittently sideways with one hand to 25kg and with two hands to 50kg
- Adjust control lines frequently loaded to 25kg
- Exert 15kg single-handed and 25kg double-handed on a winch handle

Human force can be multiplied through a purchase system made up of block systems and/or winches, enabling comfortable operation of high-loaded sailboat controls.





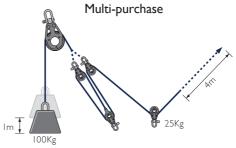
Which purchase system?

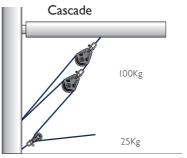
Multi-Purchase System

- Ideal for mainsheet traveller systems
- · Provides full range of adjustment

Cascade System

- Ideal for a vang, backstay or outhaul
- Achieves a smaller range of adjustment
- Provides high purchase with minimum blocks
- Line type and diameter can be specified in line with load on each part of system
- Enables control lines to be led to either side of the boat, for example, with a backstay adjustor
- All blocks must be free to travel their full working length without danger of catching





Some typical systems in use on current boats

| | | BACKSTAY | MAINSHEET TRAVELLER | MAINSHEET COARSE TUNE | EXTRA PURCHASE FOR MAINSHEET FINE TUNE | JIB TRAVELLER | VANG | CUNNINGHAM |
|---|--------------------|------------------|------------------------|-----------------------|--|-------------------|--------------------|-----------------|
| | RACING DAYBOAT | 16:1 CASCADE | 2:1 | 2:1 | 4:1 MULTI-PURCHASE | PLUNGER | 8:1 COMBINATION | 4:1 CASCADE |
| | SMALL CRUISER | FIXED | 2:1 | 4:1 MULTI-PURCHASE | - | PLUNGER | 4:1 MULTI-PURCHASE | N/A |
| S | SMALL RACING YACHT | 16:1 COMBINATION | 8:1 MULTI-PURCHASE | 6:1 MULTI-PURCHASE | 4:1 MULTI-PURCHASE | 8:1 COMBINATION | 20:1 COMBINATION | 4:1 CASCADE |
| | MEDIUM CRUISER | FIXED | 4:1 | 4:1 | N/A | 2:1 WITH PLUNGER | 5:1 | N/A |
| М | EDIUM RACING YACHT | HYDRAULIC | 12:1 COMBINATION | 2:1 WINCHED | N/A | 12:1 COMBINATION | 36:1 COMBINATION | 6:1 COMBINATION |
| | LARGE CRUISER | HYDRAULIC | 6:1 | 4:1 WINCHED | N/A | 2:1 WITH PLUNGERS | 8:1 | 4:1 |
| L | ARGE RACING YACHT | HYDRAULIC | 2:1 WINCHED | 2:1 WINCHED | N/A | 2:1 WINCHED | HYDRAULIC | 6:1 COMBINATION |

8. Hardware

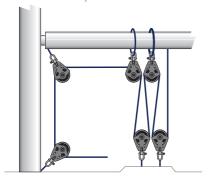
Combination Cascade/Multi-Purpose System

- Achieves compromise between power and range requirements
- Ideal for use on backstay, jib, and mainsheet controls





4:1 purchase on Mainsheet



Coarse/Fine Tune System

- Coarse purchase ideal for racing mainsheet systems
- Used for moving large amounts of unloaded mainsheet during mark rounding
- Combination fine purchase perfect for playing the mainsheet when beating



5:I Coarse System Reverse Purchase

- Ideal for an asymmetric pole launch system
- Offers fast movement and a greater range on lightly-loaded systems
- Cleat is located on control line, which is loaded to twice the pole launch rope



How much purchase power is needed?

To identify the amount of purchase power required, carry out the following calculation:

Output Force

Output Force

Purchase Required
$$\frac{200 \text{kg}}{25 \text{kg}} = 8$$
:

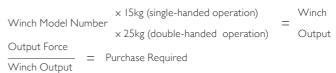
The table gives some examples of typical purchases used by Lewmar customers.

Typical purchase systems

| ,, , | | | | | | | |
|---------------------|---------|---------|---------|----------|----------|----------------|----------------|
| BOAT SIZE | 4M/13FT | 6M/20FT | 8м/26FT | 10M/33FT | 12M/39FT | 14M/45FT | 16M/53FT |
| MAINSHEET - HAND | 3:1 | 4:1 | 4:1 | 5:1-10:1 | 8:1-24:1 | - | - |
| MAINSHEET - WINCHED | - | - | - | 3:1 | 4:1 | 4:1 | 4:1 |
| VANG - CRUISING | 4:1 | 4:1 | 4:1 | 6:1 | 8:1 | 10:1 | 10:1 |
| VANG RACING | 5:1 | 6:1 | 8:1 | 12:1 | 24:1 | 36:1 | 48:1 |
| CAR TOW - CRUISING | - | - | 2:1 | 2:1 | 2:1 | 3:1 | 3:1 |
| CAR TOW - RACING | - | 2:1 | 3:1 | 6:1 | 10:1 | 2:1 (WINCH) | 2:1 (WINCH) |

Winched purchases

To identify the amount of purchase power required in winched purchase, first calculate the winch output:



The table suggests the pulling power that can be generated.

Typical winch output loads

| 7, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
|--|-------|-------|--------|--------|--------|
| WINCH SIZE | 30 | 40 | 45 | 50 | 55 |
| ONE HANDED INPUT — 15 KG ON HANDLE = WINCH OUTPUT LOAD | 450KG | 600КG | 66okg | 720KG | - |
| TWO HANDED INPUT – 25 KG ON HANDLE = WINCH OUTPUT LOAD | - | - | 1100KG | 1200KG | 1350KG |

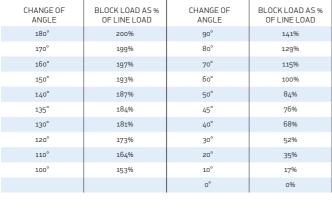
Which Bearing?

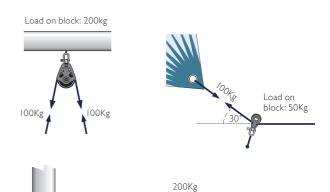
| APPLICATION | BEARING | RECOMMENDED LEWMAR RANGE |
|--|--|--------------------------|
| FREQUENTLY ADJUSTED, FREE, FAST-RUNNING SYSTEMS SUCH AS SHEETS OR CONTROL LINES | BALL BEARING SHEAVE | CONTROL BLOCK |
| HIGH-STATIC LOADINGS, ADJUSTED LESS FREQUENTLY AND MAINLY CLEATED, SUCH AS HALYARDS | FREE SPIN BEARING | SYNCHRO BLOCK |
| FREQUENTLY ADJUSTED, HIGH LOADED SYSTEMS, USING MODERN LINE TECHNOLOGY WITH HIGH LOAD ON REDUCED LINE DIAMETERS. | FREE SPIN BEARING WITH BALL BEARING SIDE THRUST. | HTX BLOCK |
| A COMBINATION OF THE ABOVE | TORLON ROLLER BEARING | RACING BLOCK |

Which Size/Load Block?

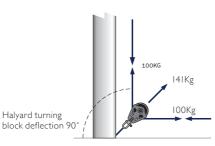
- Each Lewmar block has a specified Working Load Limit (WLL), listed in the product specification table
- Match the input from Control Line/Winch to the WLL of the block

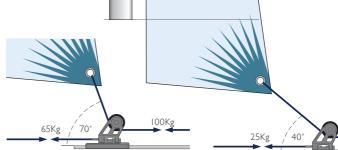
 Note that the line's angle of deflection around the sheave affects the load exerted on the block (see table below)





Vang turning block deflection 180°





100Kg

100Kg

| VERTICAL GENOA SHEET ANGLE | TOW LOAD AS % OF SHEET LOAD | |
|---------------------------------|-----------------------------|--|
| 70° | 65% | |
| 60° | 50% | |
| 50° | 35% | |
| 40° | 25% | |
| MAINSHEET TRAVELLER TOWING LOAD | | |
| GUIDE % OF MAINSHEET LOAD | 25% | |

Additional Recommendations

- Always choose a sheave diameter at least 7x the line diameter.
- Ensure that blocks are always fitted so they align with the lines passing through them, particularly on multiple blocks and where lines are periodically slack.
- All Lewmar products have been designed, tested, and developed to achieve best possible efficiency; however, no purchase system is 100% efficient. The force achieved at the working end of the purchase will be slightly less than the human load multiplied by the purchase. When calculating the purchase required to achieve a known load, we would recommend allowing a factor of 1.05 per block. Multiply by the number of 180° turns in the rope make in a system to be certain of 'fingertip' control.

100Kg

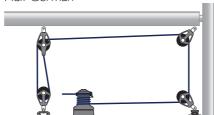
8. Hardware

Mainsheet Systems – Typical Arrangement

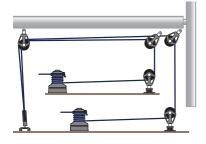
4:1 Dedicated Winch



Half German



Double German



4:1 Fiddle



6:1 Triple



6:1/24:1

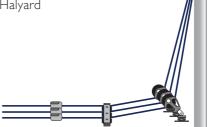


Halyards

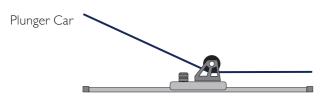




3 Halyard



Genoa Systems







2:1



Boom Vang

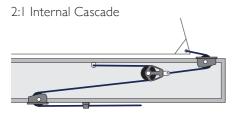




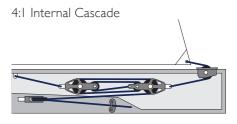
6:1 Double Ended



Outhaul







Traveller Systems

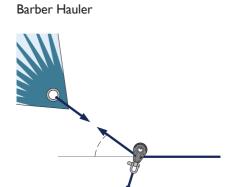




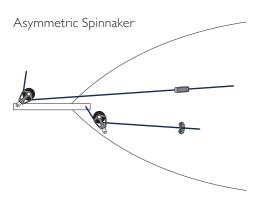
Cunningham







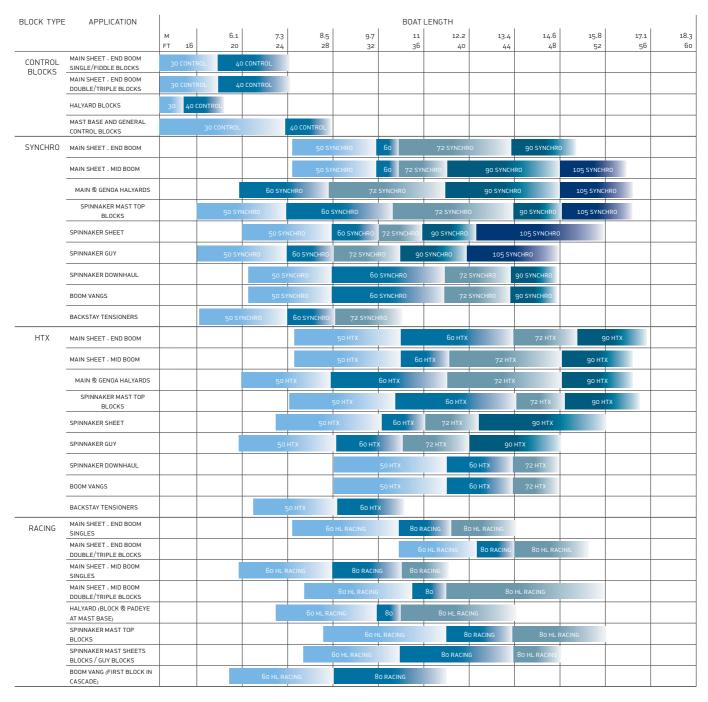
Miscellaneous







Blocks - Selection Guide



Footblock - Selection Guide





Control Blocks

Ideal for use with hand-held loads, Lewmar's Control Blocks feature lightweight, performance load-bearing capacity. MRT (Metal Replacement Technology) and a stainless steel central race and balls provide a weight advantage, while Long Fibre Technology offers exceptional strength and durability. The open design allows sand and salt to be flushed out easily, keeping maintenance simple.

- Lightweight
- Very high strength
- Impact resistant
- Reduced friction
- Easy maintenance
- Optimised for hand control
- A Long fibre cheek
- B High strength glass-filled sheave
- Marked sheave Showing line size and safe working load
- Stainless steel balls and ball groove Avoids deformation and loss of performance

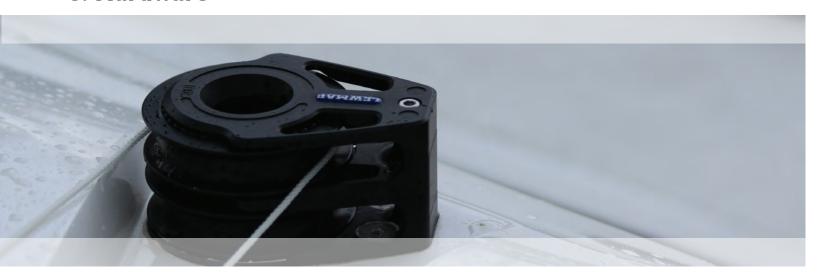


Applications

Ball bearing blocks are typically used for medium and dynamic loads in:

- Control line applications
- Mainsheets for dinghies and keelboats
- Spinnaker sheets, barber haulers
- Genoa sheets
- Dinghy applications





Control Blocks





| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|-----|--------|-----|
| | | KG | LB | G | OZ |
| 29901320BK | 30 | 200 | 440 | 30 | 1 |
| 29901420BK | 40 | 240 | 528 | 54 | 1.9 |

Single



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | | GHT |
|------------|-------------|-----------------------|-----|----|------|-----|
| | | KG | LB | G | OZ | |
| 29901321BK | 30 | 200 | 440 | 28 | 1 | |
| 29901421BK | 40 | 240 | 528 | 52 | 1.83 | |

Double



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | | GHT |
|------------|-------------|-----------------------|------|-------|------|-----|
| | | KG | LB | G | oz | |
| 29901322BK | 30 | 300 | 660 | 47 | 1.65 | |
| 29901422BK | 40 | 480 | 1056 | 112.5 | 3.97 | |

Triple



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901323BK | 30 | 500 | 1100 | 85 | 3 |
| 29901423BK | 40 | 720 | 1584 | 187.5 | 6.61 |

Single & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | | GHT |
|------------|-------------|-----------------------|-----|------|------|-----|
| | | KG | LB | G | oz | |
| 29901324BK | 30 | 200 | 440 | 33 | 1.16 | |
| 29901424BK | 40 | 240 | 528 | 56.5 | 1.99 | |

Double & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | OZ |
| 29901325BK | 30 | 300 | 660 | 50 | 1.76 |
| 29901425BK | 40 | 480 | 1056 | 116.5 | 4.11 |

Control Blocks

Triple & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901326ВК | 30 | 500 | 1100 | 90 | 3.17 |
| 29901426BK | 40 | 720 | 1584 | 192.5 | 6.79 |

Single Fixed Strap



| PART NO | SHEAVE WORKING LOAD LIMIT | | | | GHT |
|------------|---------------------------|-----|-----|----|------|
| | | KG | LB | G | oz |
| 29901341BK | 30 | 200 | 440 | 26 | 0.92 |
| 29901441BK | 40 | 240 | 528 | 44 | 1.55 |

Shackle Post Dimensions



| | POST DIAMETER | | TO FIT MAX PIN | |
|----------------------|---------------|------------------------------|----------------|------------------|
| | ММ | IN | ММ | IN |
| 30MM SINGLE / DOUBLE | 7.1 | 2/7 | 4 | 5/32 |
| 30MM TRIPLE | 9.25 | 3/8 | 5 | ³ /16 |
| 40MM SINGLE / DOUBLE | 8.0 | ⁵ / ₁₆ | 4 | 5/32 |
| 40MM TRIPLE | 11.5 | ⁷ / ₁₆ | 6 | 1/4 |

Line Size



| | MAXLI | NE SIZE |
|--------------|-------|---------|
| | ММ | IN |
| 30MM CONTROL | 8 | 5/16 |
| 40MM CONTROL | 10 | 3/8 |

Suitable Block Upstand

30 and 40mm Control blocks fit block upstand part no 29904046

For more info refer to p. 315



Fit Snap Shackle



| | FIT SNAP SHACKLE |
|------------------------------|------------------|
| 30MM CONTROL SINGLE / DOUBLE | 29925040 |
| 30MM CONTROL TRIPLE | 29926040 |
| 40MM CONTROL SINGLE / DOUBLE | 29925040 |
| 40MM CONTROL TRIPLE | 29927240 |

For more info refer to p. 316

Single Fixed Strap - St. Steel Sheave



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|-----|-----|-----|
| | | KG | LB | G | oz |
| 29901301BK | 30 | 240 | 528 | 36 | 1.2 |
| 29901401BK | 40 | 400 | 890 | 76 | 2.5 |



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|-----|--------|------|
| | | KG | LB | G | oz |
| 29901314BK | 30 | 200 | 440 | 31 | 1.09 |

Single with Becket & Cleat



| | PART NO | SHEAVE Ø | WOR LOAD | | WEIGHT | | |
|---|---------------------------------------|-------------|-------------|-----|--------|------|--|
| | | | KG | LB | G | OZ | |
| | 29901428вк | 40 | 240 | 528 | 56.5 | 1.99 | |
| * | * Plack \\/ L. clast \\/ L. 120kg | | | | | | |

^{*} Block WLL, cleat WLL 120kg

Triple & Cleat



| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT* | | WEIGHT | |
|------------|-------------|-----|------------------------|-------|--------|--|
| | | KG | LB | G | oz | |
| 29901328вк | 30 | 500 | 1100 | 135 | 4.76 | |
| 29901429BK | 40 | 720 | 1584 | 247.5 | 8.73 | |

* Block WLL, cleat WLL 120kg

Cleat Used

Control blocks with cam use the following cleats



| | USE CLEAT | WORKING LOAD LIMI | |
|-------------------|------------|-------------------|-----|
| | | KG | LB |
| 30 / 40MM CONTROL | 29104100BK | 120 | 264 |
| | | | |

Pad Eyes





Wide range of pad eyes available, refer to page 320 for more information

Control Blocks

Triple with Becket & Cleat



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT* | | WEIGHT | |
|------------|-------------|------------------------|------|--------|------|
| | | KG | LB | G | OZ |
| 29901330BK | 30 | 500 | 1100 | 140 | 5 |
| 29901430BK | 40 | 720 | 1584 | 252.5 | 8.91 |

Single Web



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | | | | |
|------------|-------------|-----------------------|-----|--------|------|--|--|--|
| | | KG | LB | G | OZ | | | |
| 29901447BK | 40 | 240 | 528 | 39.5 | 1.39 | | | |
| | | | | | | | | |

Thru-Deck Block



| Tandem | | | | | | | |
|------------|-------------|-----------------------|-----|----|------|-----|--|
| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | | GHT | |
| | | KG | LB | G | oz | | |
| 29901361ВК | 30 SINGLE | 200 | 440 | 26 | 0.92 | | |
| 29901362ВК | 30 TANDEM | 200 | 440 | 45 | 1.59 | | |

Cheekblock



| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----|-----------------------|------|--------|--|
| | | KG | LB | G | oz | |
| 29901360ВК | 30 | 200 | 440 | 18.5 | 0.65 | |
| 29901460ВК | 40 | 240 | 528 | 43 | 1.52 | |

Vertical Lead Block



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | |
|-------------|-------------|-----------------------|-----|----|------|
| | | KG | LB | G | oz |
| 29901363ВК* | 30 | 200 | 440 | 48 | 1.69 |
| 29901463ВК | 40 | 240 | 528 | 70 | 2.4 |

^{* 30}mm has no fairlead

Pivoting Exit Block



| PART NO | SHEAVE Ø | | RKING LIMIT* | WEI | GHT |
|------------|-------------|-----|-----------------|-----|------|
| | | KG | LB | G | oz |
| 29901365ВК | 30 | 200 | 440 | 80 | 2.82 |

^{*} Block WLL, cleat WLL 120kg

Linked Blocks



| PART NO | SHEAVE Ø | WOR LOAD | | WEIGHT | |
|------------|-------------|-------------|-----|--------|-----|
| | | KG | LB | G | OZ |
| 29901411BK | 40 | 240 | 528 | 88 | 3.1 |

Footblock



| PART NO | SHEAVE Ø | WOR LOAD | KING LIMIT | WEIGHT | |
|----------|-----------|-------------|---------------|--------|------|
| | | KG | LB | G | OZ |
| 29194061 | 40 SINGLE | 750 | 1653 | 66 | 2.33 |
| 29194062 | 40 DOUBLE | 750 | 1653 | 121 | 4.27 |

COMES WITH A STAINLESS STEEL BASE PLATE AND CAN BE USED AS MINIATURE ORGANISERS OR DEFLECTORS FOR LINES BEING RETURNED TO THE COCKPIT.

USE M8 (5/16) FIXINGS - NOT INCLUDED

Tweaker Block



| PART NO | SHEAVE Ø | WOR LOAD | | WEI | GHT |
|----------|-------------|-------------|-----|-----|-----|
| | | KG | LB | G | oz |
| 29900240 | 30 | 120 | 265 | 28 | 1 |
| 29900340 | 40 | 140 | 309 | 76 | 3 |

^{*} Block WLL, cleat WLL 120kg

60mm Ratchet Blocks

Only suitable to use with hand loads. For winched loads, refer to the Synchro, HTX or Racing ranges.



Single Ratchet PART NO SHEAVE WORKING WEIGHT LOAD LIMIT KG LB 882 29901661BK 60

Shackle Post Dimensions



| | POST DI | AMETER | TO FIT M | AX PIN Ø |
|---------------------|---------|--------|----------|------------------|
| | мм | IN | ММ | IN |
| 60MM RATCHET SINGLE | 9.5 | 3/8 | 5 | ³ /16 |
| 60MM RATCHET TRIPLE | 10.0 | 2/5 | 6 | 1/4 |

Line Size



| MAX LINE SIZE | | | | | |
|---------------|-----|--|--|--|--|
| мм | IN | | | | |
| 10 | 3/8 | | | | |

Fit Snap Shackle

| | FIT SNAP SHACKLE |
|---------------------|---------------------|
| 60MM RATCHET SINGLE | 29926040 |
| 60MM RATCHET TRIPLE | 29927240 |



For more info refer to p. 316



| | FIT TRAVELLER UPSTAND |
|---------------------|-----------------------|
| 60MM SINGLE RATCHET | SIZE 1 NTR |
| 60MM TRIPLE RATCHET | SIZE 2 NTR ® HTX |

Single Ratchet & Becket



| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT | | 'EIGHT | |
|------------|-------------|-----|-----------------------|-----|--------|--|
| | | KG | LB | G | oz | |
| 29901665ВК | 60 | 400 | 882 | 141 | 4.8 | |

Single Ratchet & Cleat



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT* | | WEI | GHT |
|------------|-------------|------------------------|-----|-----|------|
| | | KG | LB | G | oz |
| 29901667ВК | 60 | 400 | 882 | 288 | 10.1 |

^{*} Refers to block WLL, cleat WLL 180kg

Triple Ratchet, Becket & Cleat



| S. Contraction of the Contractio | | | | | |
|--|-------------|------------------------|------|------|------|
| PART NO | SHEAVE Ø | WORKING LOAD LIMIT* | | WEIG | SHT |
| | | KG | LB | G | oz |
| 29901670ВК | 60 | 1000 | 2204 | 538 | 18.2 |

^{*} Refers to block WLL, cleat WLL 180kg

Suitable Block Upstand

60mm triple ratchet blocks fit upstand part no 29904050 For more info refer to p. 315



Cleat



Pad Eyes



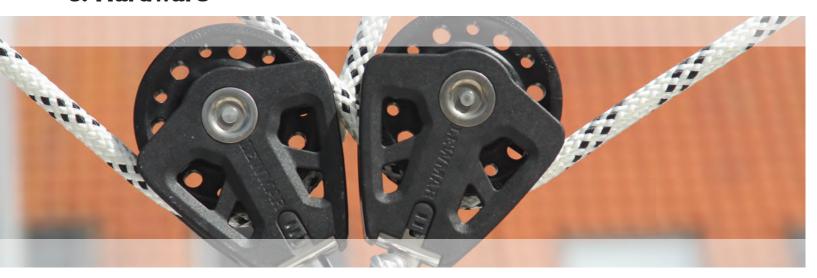
Wide range of pad eyes available, refer to page 320 for more information

Triple Ratchet & Cleat



| PART NO | SHEAVE Ø | | KING WEIGHT LIMIT* | | |
|------------|-------------|------|-----------------------|-----|------|
| | | KG | LB | G | oz |
| 29901668вк | 60 | 1000 | 2204 | 524 | 17.7 |

* Refers to block WLL, cleat WLL 180kg



Synchro Blocks

Lewmar Synchro blocks are engineered for speed, efficiency and superior handling. We use a combination of scientifically optimised block geometry, a Free-Spin bearing and self-aligning head to reduce friction and increase efficiency by up to 40% over budget blocks on mainsheet systems.

Each component is perfectly synchronised with the movement of the rope, providing you with an easier, smoother transfer of power from deck to sail and less wear on your rope.

- Stainless steel strap for improved strength and longer service life
- Stiff glass fibre reinforced cheeks to prevent lines from wedging
- Simple switch to change from swivelling to fixed shackle

- Easy to use shackle post lock
- Shackle post Fits travellers
- Lock mechanism enables 30° float
- Larger sheave diameter Minimises rope friction
- High density free-spin bearing reduces axle diameter for superior efficiency

Applications

Plain bearing blocks are typically used for heavy and static loads in:

- Halyard tuning
- Mainsheet systems
- Mast foot blocks
- Mast head blocks
- Boom vang



Synchro Blocks

Head Design

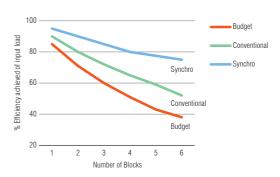
Head can be positioned for use in line or at 90 degrees – or left to rotate freely when in unlocked position. When locked allows 30° "float" on shackle post to improve alignment of block.



Higher efficiency – for faster sail handling and less rope wear

Independent tests show Synchro blocks offer increased efficiency over conventional designs.
Calculations over a 6-block mainsheet system, indicated Synchro blocks can deliver up to 40% greater efficiency than budget products – resulting in better responsiveness and improved sailing performance.

Efficiency improvements in multi block systems



Shackle Post Dimensions



| | | | | _ |
|--------------|---------------|-------|----------|-----------|
| | POST DIAMETER | | TO FIT M | IAX PIN Ø |
| | ММ | IN | мм | IN |
| 50MM SYNCHRO | 7.9 | 5/16 | 4 | 5/32 |
| 6омм ѕүлснго | 9.4 | 3/8 | 5 | 3/16 |
| 72MM SYNCHRO | 11.9 | 15/32 | 6 | 1/4 |
| домм synchro | 16.5 | 21/32 | 9.8 | 3/8 |

Suitable Traveller Upstand



| | FIT TRAVELLER UPSTAND |
|--------------|------------------------|
| 50MM SYNCHRO | |
| 60MM SYNCHRO | SIZE 1 NTR |
| 72MM SYNCHRO | SIZE 1 HTX/ SIZE 2 NTR |
| домм synchro | SIZE 2 HTX/ SIZE 3 NTR |

Suitable Snap Shackles



| | FIT SNAP SHACKLE |
|--------------|------------------|
| 50MM SYNCHRO | 29925040 |
| 60MM SYNCHRO | 29926040 |
| 72MM SYNCHRO | 29927240 |
| 90MM SYNCHRO | 29929040 |

Cleat Used

| | USE CLEAT | | RKING LIMIT LB |
|--------------|------------|-----|----------------------|
| 50MM SYNCHRO | 29104100BK | 120 | 264 |
| 60MM SYNCHRO | 29104110BK | 180 | 396 |
| 72MM SYNCHRO | 29104110BK | 180 | 396 |

Line Size

| 5519 | OPTIMUM | LINE SIZE | MAXLI | NE SIZE |
|--------------|---------|-----------|-------|---------|
| | мм | IN | мм | IN |
| 50MM SYNCHRO | 6 | 1/4 | 10 | 3/8 |
| 6омм synchro | 8 | 5/16 | 10 | 3/8 |
| 72MM SYNCHRO | 10 | 3/8 | 12 | 1/2 |
| домм synchro | 12 | 1/2 | 14 | 9/16 |

Suitable Block Upstands



Rubber boot upstand kit 29195065 fits 60mm Synchro 29196065 fits 72mm Synchro 29197265 fits 90mm Synchro



Spring upstand 29904050 fits 50mm Synchro

Pad Eyes







Wide range of pad eyes available, refer to page 320 for more information

Synchro Blocks

Single



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925001BK | 50 | 450 | 990 | 67 | 2.36 |
| 29926001ВК | 60 | 800 | 1760 | 115 | 4.06 |
| 29927201BK | 72 | 1100 | 2420 | 190 | 6.69 |
| 29929001BK | 90 | 2000 | 4400 | 413 | 14.57 |

Double



| PART NO | SHEAVE Ø | | KING LIMIT | WEI | GHT |
|------------|-------------|------|---------------|-----|-------|
| | | KG | LB | G | oz |
| 29925002BK | 50 | 450 | 990 | 142 | 5.01 |
| 29926002ВК | 60 | 800 | 1760 | 251 | 8.84 |
| 29927202BK | 72 | 1100 | 2420 | 406 | 14.29 |
| 29929002ВК | 90 | 2000 | 4400 | 966 | 34.00 |

Triple



| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT | | GHT |
|------------|-------------|------|-----------------------|------|-------|
| | | KG | LB | G | OZ |
| 29925003ВК | 50 | 450 | 990 | 226 | 7.96 |
| 29926003ВК | 60 | 800 | 1760 | 371 | 13.06 |
| 29927203BK | 72 | 1100 | 2420 | 618 | 21.75 |
| 29929003BK | 90 | 2000 | 4400 | 1389 | 48.89 |

Single & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925004BK | 50 | 450 | 990 | 81 | 2.85 |
| 29926004ВК | 60 | 800 | 1760 | 127 | 4.48 |
| 29927204BK | 72 | 1100 | 2420 | 210 | 7.41 |
| 29929004BK | 90 | 2000 | 4400 | 458 | 16.15 |
| | | | | | |

Double & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925005BK | 50 | 450 | 990 | 164 | 5.77 |
| 29926005ВК | 60 | 800 | 1760 | 261 | 9.19 |
| 29927205BK | 72 | 1100 | 2420 | 415 | 14.61 |

Single Becket & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|-----|-----|------|
| | | KG | LB | G | oz |
| 29925009ВК | 50 | 450 | 990 | 123 | 4.30 |

* Block WLL, cleat WLL shown p297

Triple, Becket & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT * | | WEI | GHT |
|------------|-------------|-------------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925010BK | 50 | 450 | 990 | 282 | 9.93 |
| 29926010ВК | 60 | 800 | 1760 | 447 | 15.73 |
| 29927210BK | 72 | 1100 | 2420 | 820 | 28.86 |

^{*} Block WLL, cleat WLL shown p297

Single Fiddle



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-------|
| | | KG | LB | G | OZ |
| 29925031BK | 50 | 450 | 990 | 94 | 3.31 |
| 29926031ВК | 60 | 800 | 1760 | 156 | 5.50 |
| 29927231BK | 72 | 1100 | 2420 | 250 | 8.80 |
| 29929031BK | 90 | 2000 | 4400 | 544 | 19.19 |

Synchro Blocks

Single Fiddle & Becket



| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT | | GHT |
|------------|-------------|------|-----------------------|-----|-------|
| | | KG | LB | G | oz |
| 29925034BK | 50 | 450 | 990 | 98 | 3.45 |
| 29926034ВК | 60 | 800 | 1760 | 166 | 5.85 |
| 29927234BK | 72 | 1100 | 2420 | 275 | 9.70 |
| 29929034BK | 90 | 2000 | 4400 | 589 | 20.77 |

Single Fiddle & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT* | | WEI | GHT |
|------------|-------------|------------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925037ВК | 50 | 450 | 990 | 139 | 4.89 |
| 29926037ВК | 60 | 800 | 1760 | 221 | 7.78 |
| 29927237BK | 72 | 1100 | 2420 | 339 | 11.93 |

^{*} Block WLL, cleat WLL shown p.297

Single Fiddle, Becket & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT* | | WEI | GHT |
|------------|-------------|------------------------|------|-----|-------|
| | | KG | LB | G | oz |
| 29925039ВК | 50 | 450 | 990 | 145 | 5.10 |
| 29926039ВК | 60 | 800 | 1760 | 234 | 8.24 |
| 29927239BK | 72 | 1100 | 2420 | 356 | 12.53 |
| 29929039ВК | 90 | 2000 | 4400 | 879 | 27.12 |

^{*} Block WLL, cleat WLL shown p.297

Halyard Block



The toggle head of the halyard blocks is designed to fit on the studs commonly found at mast bases – check the diameter of the stud against the width of the block jaws (A) and pin diameter (B)





Synchro Footblocks

Synchro Footblocks feature alloy cheeks, fixing isolators, and a moulded base plate to prevent sealant ingress into the sheave.

Jamming footblocks are designed to hold light hand loads only.

- Standard and jammer options can be double stacked
- Two-step jammer action keeps lever close to side of the block
- Optimised jammer shape holds line central on the sheave
- Tough alloy cheeks
- Synchro sheave loads match the same sized blocks

- Twin fixings with inserts
- Wide head for a solid base, block will not "roll" on the deck
- Moulded base plate with recess to hold sealant around fixing screws and prevent ingress onto the bearing and sheave

Aluminium Footblock



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|-------|
| | | KG | LB | G | oz |
| 29926061ВК | 60 | 800 | 1764 | 162 | 5.70 |
| 29927261ВК | 72 | 1200 | 2645 | 229 | 8.10 |
| 29929061ВК | 90 | 2000 | 4409 | 430 | 15.20 |

USE M8 (5/16) FIXINGS FOR THE 60/72MM SHEAVES AND M10 FOR THE 90MM SHEAVES - NOT INCLUDED

Aluminium Footblock with Jammer

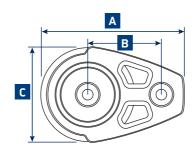


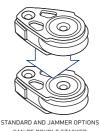
| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|-------|
| | | KG | LB | G | oz |
| 29926064ВК | 60 | 800 | 1764 | 190 | 6.70 |
| 29927264ВК | 72 | 1200 | 2645 | 250 | 8.80 |
| 29929064ВК | 90 | 2000 | 4409 | 480 | 16.90 |

USE M8 (5/16) FIXINGS FOR THE 60/72MM SHEAVES AND M10 FOR THE 90MM SHEAVES - NOT INCLUDED

Synchro Footblock Footprint

| PART NO | | A | E | 3 | | |
|----------------|-------|--------------------|------|--------|----|---------------------------------|
| | ММ | IN | мм | IN | ММ | IN |
| 60MM FOOTBLOCK | 98.0 | 3 ⁷ /8 | 51.0 | 2 | 59 | 25/16 |
| 72MM FOOTBLOCK | 110.6 | 4 ⁵ /16 | 58.0 | 25/16 | 71 | 2 ¹³ / ₁₆ |
| домм гоотвьоск | 134.0 | 5 ⁴ ⁄16 | 69.0 | 211/16 | 89 | 3½ |





STANDARD AND JAMMER OPTIONS
CAN BE DOUBLE STACKED
THE UPPER SHEAVE SHOULD NOT BE
LOADED BEYOND 60% OF WLL



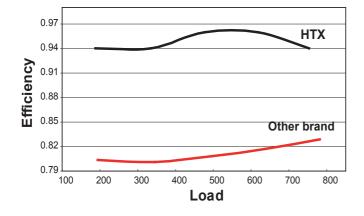
HTX Blocks

Years of design and manufacturing experience, combined with collaboration with boat builders, designers, and sailors, has resulted in the Lewmar HTX Hardware Range. Drawing upon the design of the racing range, the HTX blocks are constructed simply from high quality materials, providing enhanced reliability. Ideal for frequently adjusted, highly loaded systems using modern line technology and reduced line diameters.

- Strong aluminium side cheeks
- Central plain bearing for efficiency at high loads
- Side thrust Delrin ball bearings
- Head design inspired by Lewmar Racing Range, complete with grub screw swivel head locking mechanism



- Head pin design inspired by Lewmar Racing series block
- E High Load capacity and large line size



Higher efficiency – for faster sail handling and less rope wear.

HTX blocks are more efficient than alternative brand using similar material due to machined bearing pin surface.

HTX block efficiency improves above 450kg as acetal sheaves become self-lubricating at this point.

HTX Blocks

Single



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|----------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29195001 | 50 | 800 | 1762 | 135 | 4.7 |
| 29196001 | 60 | 1100 | 2422 | 215 | 7.5 |
| 29197201 | 72 | 2000 | 4405 | 445 | 15.6 |
| 29199001 | 90 | 3500 | 7709 | 735 | 25.8 |

Double



| PART NO | SHEAVE Ø | WOR LOAD | | WEIGHT | |
|----------|-------------|-------------|------|--------|------|
| | | KG | LB | G | oz |
| 29195002 | 50 | 800 | 1762 | 217 | 7.6 |
| 29196002 | 60 | 1100 | 2422 | 331 | 11.6 |
| 29197202 | 72 | 2000 | 4405 | 552 | 19.3 |

Triple



| PART NO | SHEAVE Ø | WOR LOAD | | WEI | GHT |
|----------|-------------|-------------|------|-----|------|
| | | KG | LB | G | OZ |
| 29195003 | 50 | 800 | 1762 | 305 | 10.7 |
| 29196003 | 60 | 1100 | 2422 | 426 | 14.9 |

Single & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|----------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | OZ |
| 29195004 | 50 | 800 | 1762 | 150 | 5.3 |
| 29196004 | 60 | 1100 | 2422 | 226 | 7.9 |
| 29197204 | 72 | 2000 | 4405 | 482 | 16.9 |
| 29199004 | 90 | 3500 | 7709 | 936 | 32.8 |

Double & Becket



| P | ART NO | SHEAVE Ø | | WORKING LOAD LIMIT | | WEIGHT | |
|----|---------|-------------|------|-----------------------|-----|--------|--|
| | | | KG | LB | G | oz | |
| 29 | 9195005 | 50 | 800 | 1762 | 232 | 8.1 | |
| 29 | 9196005 | 60 | 1100 | 2422 | 319 | 11.2 | |

Single Becket & Cam



| PART NO | SHEAVE Ø | WOR LOAD | | WEI | GHT |
|----------|-------------|-------------|------|-----|------|
| | | KG | LB | G | oz |
| 29195009 | 50 | 800 | 1762 | 320 | 11.2 |
| 29196009 | 60 | 1100 | 2422 | 414 | 14.5 |

^{*} Block WLL, cleat WLL shown p.303

Triple, Becket & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT * | | WEIGHT | |
|----------|-------------|-------------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29195010 | 50 | 800 | 1762 | 511 | 17.9 |
| 29196010 | 60 | 1100 | 2422 | 710 | 24.9 |
| | | | | | |

^{*} Block WLL, cleat WLL shown p.303



Web Single

| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | |
|----------|-------------|-----------------------|------|-----|-----|
| | | KG | LB | G | oz |
| 29195047 | 50 | 800 | 1762 | 80 | 2.8 |
| 29196047 | 60 | 1100 | 2422 | 148 | 5.2 |
| 29197247 | 72 | 2000 | 4405 | 283 | 9.9 |

HTX Blocks

Fiddle



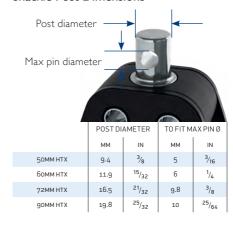
| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|----------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29195031 | 50 | 800 | 1762 | 165 | 5.8 |
| 29196031 | 60 | 1100 | 2422 | 257 | 9.0 |
| 29197231 | 72 | 2000 | 4405 | 530 | 18.5 |

Fiddle & Becket



| PART NO | SHEAVE Ø | E WORKING LOAD LIMIT | | WEI | GHT |
|----------|-------------|-------------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29195034 | 50 | 800 | 1762 | 175 | 6.1 |
| 29196034 | 60 | 1100 | 2422 | 269 | 9.4 |
| 2010723/ | 72 | 2000 | 4405 | 560 | 10 6 |

Shackle Post Dimensions



Line Size

| | MAX SIZ MM | |
|----------|------------------|------------------------------|
| 50ММ НТХ | 10 | 3/8 |
| 6омм нтх | 12 | 1/2 |
| 72MM HTX | 14 | ⁹ / ₁₆ |
| домм нтх | 16 | 5/8 |

Cleat Used

| | USE CLEAT | | RKING LIMIT LB |
|----------|------------|-----|----------------------|
| 50ММ НТХ | 29104100BK | 120 | 264 |
| 6омм нтх | 29104110BK | 180 | 396 |
| 72MM HTX | - | 230 | 507 |

Fiddle & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT * | | WEI | GHT |
|----------|-------------|-------------------------|------|-----|------|
| | | KG | LB | G | OZ |
| 29195037 | 50 | 800 | 1762 | 335 | 11.7 |
| 29197237 | 72 | 2000 | 4405 | 748 | 26.2 |

^{*} Block WLL, cleat WLL shown on the right

Fiddle, Becket & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT * | | WEI | GHT |
|----------|-------------|-------------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29195039 | 50 | 800 | 1762 | 346 | 12.1 |
| 29196039 | 60 | 1100 | 2422 | 460 | 16.1 |
| 29197239 | 72 | 2000 | 4405 | 776 | 27.2 |

^{*} Block WWL, cleat WLL shown on the right

Suitable Traveller Upstand



| FIT TRAVELLER UPSTAND |
|---------------------------|
| SIZE 1 NTR |
| SIZE 1 HTX |
| SIZE 2 NTR AND SIZE 2 HTX |
| SIZE 3 NTR |
| |

Pad Eyes



Wide range of pad eyes available, refer to page 320 for more information

HTX Blocks

Single Stand-Up Block



| | | | | | | | | BASE D | ETAILS | |
|----------|----------|-----------|-----------|------|-----------|-----------|--------------------------------|-----------|----------------|----------------|
| PART NO | SHEAVE Ø | WORKING L | OAD LIMIT | WEI | GHT oz | OVERALL I | DIAMETER IN | FIXINGS E | DIAMETER IN | FIXINGS TYPE |
| 29195011 | 50 | 800 | 1762 | 280 | 10 | 58 | 2 ⁵ / ₁₆ | 40 | 1 37/64 | 4 X M6 (1/4") |
| 29196011 | 60 | 1100 | 2422 | 350 | 12.4 | 58 | 2 ⁵ / ₁₆ | 40 | 1 37/64 | 4 X M6 (1/4") |
| 29197211 | 72 | 2000 | 4405 | 645 | 22.8 | 73 | 2 7/8 | 50 | 1 31/32 | 4 X M8 (5/16") |
| 29199011 | 90 | 3500 | 7709 | 1115 | 39.3 | 76 | 3" | 55 | 2 11/64 | 4 X M8 (5/16") |

HTX Footblock



Use M8 (5/16") fixings for the 60/72mm sheaves and M10 (3/8") for the 90mm sheaves (not included)

| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|----------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | OZ |
| 29195061 | 50 | 800 | 1762 | 145 | 5.1 |
| 29196061 | 60 | 1100 | 2422 | 158 | 5.5 |
| 29197261 | 72 | 2000 | 4405 | 283 | 9.9 |
| 29199061 | 90 | 3500 | 7709 | 672 | 23.5 |

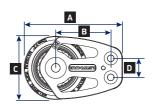
HTX Footblock With Jammer



*Jammer intended to hold hand loads only Use M8 (5/16") fixings for the 60/72mm sheaves and M10 (3/8") for the 90mm sheaves (not included)

| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|----------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29195064 | 50 | 800 | 1762 | 107 | 3.7 |
| 29196064 | 60 | 1100 | 2422 | 170 | 6.0 |
| 29197264 | 72 | 2000 | 4405 | 320 | 11.2 |

HTX Footblock Footprint





STANDARD AND JAMMER OPTIONS CAN BE DOUBLE STACKED
THE UPPER SHEAVE SHOULD NOT BE LOADED BEYOND 60% OF
WORKING LOAD LIMIT (WLL)

| SHEAVE Ø | Α | В | С | D |
|----------|-------|----|----|----|
| | ММ | ММ | ММ | мм |
| 50 | 78.7 | 44 | 50 | 16 |
| 60 | 93.2 | 52 | 60 | 18 |
| 72 | 111.2 | 62 | 72 | 22 |
| 90 | 140.5 | 78 | 90 | 24 |

Suitable Block Upstand



Rubber boot upstand kit:

29195065 fits 50mm HTX 29196065 fits 60mm HTX 29197265 fits 72mm HTX

For more info refer to page 315

Fit Snap Shackle



| | FIT SNAP SHACKLE |
|----------|------------------|
| 50ММ НТХ | 29926040 |
| 6омм нтх | 29927240 |
| 72MM HTX | 29929040 |

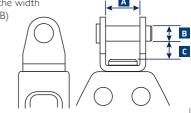
For more info refer to page 316

Halyard Block



The toggle head is designed to fit on the studs commonly found at mast bases.

Check the diameter of the stud against the width of the block jaws (A) and pin diameter (B)



| | | | | | | | | HEAD D | ETAILS | | |
|----------|---------|------|----------------|-----|------|-----|-------------------|--------|-------------------------------|-------|-------|
| PART NO | SHEAVEØ | LIN | IG LOAD MIT | WEI | | WIE |)TH | PI | N | SPACE | |
| | ММ | KG | LB | G | OZ | MM | IN | MM | IN | MM | IN |
| 29195021 | 50 | 800 | 1762 | 160 | 5.6 | 15 | 37/64 | 6 | 7/32 | 8 | 5/16 |
| 29196021 | 60 | 1100 | 2422 | 227 | 7.9 | 18 | 45/64 | 8 | 5/16 | 10 | 37/94 |
| 29197221 | 72 | 2000 | 4405 | 410 | 14.4 | 23 | 67 _{/74} | 10 | ³⁷ / ₉₄ | 9.5 | 3/8 |



HTX Stainless Steel Blocks

Following the popularity of the HTX blocks, Lewmar have responded to market trends by developing a high-polished, stainless steel edition of the range. Providing a stylish alternative to ubiquitous Lewmar hardware, HTX Stainless Steel Blocks feature all the performance characteristics of the standard range while carrying additional glamour.



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|----------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 27196001 | 60 | 1100 | 2422 | 270 | 9.5 |
| 27197201 | 72 | 2000 | 4405 | 560 | 19.8 |
| 27199001 | 90 | 3500 | 7709 | 920 | 35.5 |

Double



| PARTNU | Ø | | DAD LIMIT WEIGH | | GHI | |
|----------|----|------|-----------------|-----|------|--|
| | | KG | LB | G | oz | |
| 27196002 | 60 | 1100 | 2422 | 415 | 14.6 | |
| 27197202 | 72 | 2000 | 4405 | 690 | 4.3 | |
| | | | | | | |

Web Single



| PART NO | SHEAVE Ø | | | WEI | GHT |
|----------|-------------|-----|------|-----|-----|
| | | KG | LB | G | oz |
| 27195047 | 50 | 800 | 1762 | 100 | 3.5 |

Single Stand-Up Block



| | | | | | | | | BASE D | ETAILS | |
|----------|----------|-----------|------------|-----|------|----------|--------------------------------|-----------|---------|----------------|
| PART NO | SHEAVE Ø | WORKING L | _OAD LIMIT | WEI | GHT | OVERALLI | DIAMETER | FIXINGS D | IAMETER | FIXINGS TYPE |
| | ММ | KG | LB | G | oz | ММ | IN | ММ | IN | |
| 27196011 | 60 | 1100 | 2422 | 440 | 15.5 | 58 | 2 ⁵ / ₁₆ | 40 | 1 37/64 | 4 X M6 (1/4") |
| 27197211 | 72 | 2000 | 4405 | 810 | 28.6 | 73 | 2 7/8 | 50 | 1 31/32 | 4 X M8 (5/16") |

HTX Stainless Steel Blocks

Single & Becket



| PART NO | SHEAVE Ø | WOR LOAD | KING LIMIT | WEI | GHT | |
|----------|-------------|-------------|---------------|-----|------|--|
| | | KG | LB | G | oz | |
| 27196004 | 60 | 1100 | 2422 | 285 | 10.1 | |
| 27197204 | 72 | 2000 | 4405 | 605 | 21.5 | |

Fiddle



| PART NO | SHEAVE Ø | WOR LOAD | | WEI | GHT | |
|----------|-------------|-------------|------|-----|------|--|
| | | KG | LB | G | oz | |
| 27196031 | 60 | 1100 | 2422 | 325 | 11.5 | |

Fiddle & Cam



| PART NO | SHEAVE Ø | | KING LIMIT * | WEI | GHT |
|----------|-------------|------|-----------------|-----|------|
| | | KG | LB | G | oz |
| 27196038 | 60 | 1100 | 2422 | 500 | 17.6 |

^{*} Block WWL, cleat WLL shown on p303

Fiddle, Becket & Cam



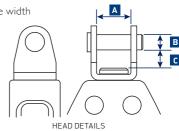
| PART NO | SHEAVE Ø | | WORKING LOAD LIMIT * | | GHT |
|----------|-------------|------|-------------------------|-----|------|
| | | KG | LB | G | oz |
| 27196039 | 60 | 1100 | 2422 | 575 | 20.3 |

Halyard Block



The toggle head is designed to fit on the studs commonly found at mast bases. Check the diameter of the stud against the width

of the block jaws (A) and pin diameter (B)



| | | | | | | | | HEAD D | ETAILS | | |
|----------|---------|------|----------------|-----|------|-----|-------|--------|-------------------|-------|--------|
| PART NO | SHEAVEØ | | IG LOAD VIT | WEI | GHT | WIE | | PI | | SPACE | TO PIN |
| | мм | KG | LB | G | oz | ММ | IN | мм | IN | мм | IN |
| 27196021 | 60 | 1100 | 2422 | 285 | 10.1 | 18 | 45/64 | 8 | 5/16 | 10 | 37/94 |
| 27197221 | 72 | 2000 | 4405 | 515 | 18.2 | 23 | 67/74 | 10 | ³⁷ /94 | 9.5 | 3/8 |

HTX Footblock



Use M8 (5/16") fixings for the 60/72mm sheaves.

| PART NO | SHEAVE Ø | | | WEI | GHT |
|----------|-------------|------|------|-----|------|
| | | KG | LB | G | OZ |
| 27196061 | 60 | 1100 | 2422 | 200 | 7.1 |
| 27197261 | 72 | 2000 | 4405 | 355 | 12.5 |

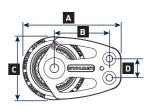
HTX Footblock With Jammer



*Jammer intended to hold hand loads only Use M8 (5/16") fixings for the 60/72mm sheaves

| PART NO | SHEAVE Ø | | KING LIMIT | WEI | GHT |
|----------|-------------|------|---------------|-----|------|
| | | KG | LB | G | OZ |
| 27197264 | 72 | 2000 | 4405 | 480 | 16.8 |

HTX Footblock Footprint





STANDARD AND JAMMER OPTIONS CAN BE DOUBLE STACKED
THE UPPER SHEAVE SHOULD NOT BE LOADED BEYOND 60% OF
WORKING LOAD LIMIT (WLL)

| SHEAVE Ø | Α | В | С | D |
|----------|-------|----|----|----|
| | ММ | мм | ММ | ММ |
| 60 | 93.2 | 52 | 60 | 18 |
| 72 | 111.2 | 62 | 72 | 22 |

^{*} Block WWL, cleat WLL shown on p303



Racing Blocks

Lewmar Racing Blocks represent the pinnacle of Lewmar's standard block range. Manufactured from the best materials, they offer incredible strength to weight ratios.

- Lockable head pin
- Highly efficient central bearing
- Delrin thrust balls
- Ratchet fiddle blocks feature alloy ratchet sheaves and recessed ratchet lever



Single



PART NO SHEAVE WORKING LOAD LIMIT K6 LB G OZ
29901611BK 60 800 1763 162 5.7
29901811BK 80 1000 2204 251 8.8

Single & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|-----|
| | | KG | LB | G | oz |
| 29901614BK | 60 | 800 | 1763 | 170 | 6.0 |
| 29901814BK | 80 | 1000 | 2204 | 278 | 9.8 |

Single Stand Up



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | OZ |
| 29901600ВК | 60 | 800 | 1763 | 283 | 10.0 |
| 29941800ВК | 80 | 2400 | 5280 | 518 | 18.0 |

For fixing details refer to the website

Racing Blocks

Shackle Post Dimensions



| | POSTØ | | ТО FIT M | AX PIN Ø |
|-----------------------|-------|-------|----------|------------------------------|
| | ММ | IN | ММ | IN |
| 60MM FIDDLES | 10.0 | 3/8 | 5 | ³ / ₁₆ |
| 60MM SINGLES | 11.0 | 3/8 | 6 | 1/4 |
| 60MM DOUBLES | 13.8 | 1/2 | 8 | ⁵ / ₁₆ |
| 80MM SINGLES/ FIDDLES | 12.5 | 1/2 | 6 | 1/4 |
| 80MM DOUBLE/ TRIPLE | 14 | 9/16 | 8 | ⁵ / ₁₆ |
| 175MM | 31.8 | 1 1/4 | 16 | 5/8 |
| 200MM | 34.7 | 13/8 | 16 | 5/8 |
| 225MM | 38 | 1 1/2 | 20 | 3/4 |
| 250ММ | 46 | 1 3/4 | 24.5 | 1 |

Single Ratchet



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | | |
|------------|-------------|-----------------------|------|--------|------|--|
| | | KG | LB | G | oz | |
| 29901821BK | 80 | 800 | 1764 | 291 | 10.3 | |

Single Ratchet & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901825BK | 80 | 800 | 1764 | 318 | 11.2 |

Single Ratchet, Becket & Cam

MAX LINE SIZE

3/8

1/2 7/8

7/8

¹⁵/₁₆



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901829ВК | 80 | 800 | 1764 | 503 | 17.7 |

Double



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | | | GHT |
|------------|-------------|-----------------------|------|-----|------|-----|
| | | KG | LB | G | OZ | |
| 29901612BK | 60 | 1440 | 3175 | 291 | 10.3 | |
| 29901812BK | 80 | 1800 | 3968 | 487 | 17.2 | |

Double & Becket

6о/ 8омм

175MM

200MM

225MM 250MM

Line Size



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901615ВК | 60 | 1440 | 3175 | 299 | 10.5 |
| 29901815BK | 80 | 1800 | 3968 | 514 | 18.1 |

Triple



| PART NO | SHEAVE Ø | WOR LOAD | KING LIMIT | WEIGHT . | |
|------------|-------------|-------------|---------------|----------|------|
| | | KG | LB | G | oz |
| 29901813ВК | 80 | 2200 | 4849 | 724 | 25.5 |

Triple Ratchet & Cam



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29901828ВК | 80 | 2200 | 4849 | 949 | 33.5 |

Racing Blocks

Triple & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEIGHT | |
|------------|-------------|-----------------------|------|--------|------|
| | | KG | LB | G | oz |
| 29901816вк | 80 | 2200 | 4849 | 751 | 26.5 |

Triple Ratchet, Becket & Cam



| • | | | | | | | | | | | | |
|------------|---------------------------------|------|------|-----|------|--|--|--|--|--|--|--|
| PART NO | SHEAVE WORKING WEIGHT DAD LIMIT | | | | GHT | | | | | | | |
| | | KG | LB | G | oz | | | | | | | |
| 29901830BK | 80 | 2200 | 4849 | 976 | 34.4 | | | | | | | |

Fiddle



| PART NO | SHEAVE Ø | WOR LOAD | | WEI | GHT |
|------------|-------------|-------------|------|-----|------|
| | | KG | LB | G | OZ |
| 29901631ВК | 60 | 400 | 882 | 174 | 6.1 |
| 29901831BK | 80 | 1000 | 2204 | 356 | 12.6 |

Fiddle Ratchet & Cam



| PART NO | SHEAVE Ø | | KING LIMIT | WEIGHT | | | |
|------------|-------------|-------|---------------|--------|------|--|--|
| | | KG LB | | G | oz | | |
| 29901822BK | 80 | 1000 | 2204 | 567 | 20.0 | | |

Fiddle Becket



| PART NO | SHEAVE WORKING WEIGHT | | | | | |
|------------|-----------------------|------|------|-----|------|--|
| | | KG | LB | G | oz | |
| 29901634ВК | 60 | 400 | 882 | 190 | 6.7 | |
| 29901834BK | 80 | 1000 | 2204 | 382 | 13.5 | |

Fiddle, Becket & Cam



| PART NO | SHEAVE Ø | SHEAVE WORKING WEIGHT 0 LOAD LIMIT | | | |
|------------|-------------|------------------------------------|-----|-----|----|
| | | KG | LB | G | oz |
| 29901639ВК | 60 | 400 | 882 | 353 | 12 |
| 29901839ВК | 80 | 1000 2204 | | 567 | 20 |

Fiddle Ratchet, Becket & Cam



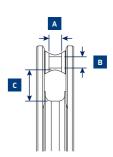
| PART NO | SHEAVE Ø | HEAVE WORKING WEIG Ø LOAD LIMIT | | | |
|------------|-------------|------------------------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29901624BK | 60 | 400 | 882 | 362 | 13.0 |
| 29901824BK | 80 | 1000 | 2204 | 356 | 21.0 |

Halyard Block



| PART NO | SHEAVE Ø | WOR LOAD | KING LIMIT | WEI | GHT | |
|------------|-------------|-------------|---------------|-----|-----|--|
| | | KG | LB | G | oz | |
| 29942601ВК | 60 | 1400 | 3080 | 146 | 5.2 | |
| 29942801BK | 80 | 2500 | 5500 | 274 | 9.7 | |

Halyard Block Head Details



| | A | A | E | 3 | С | | |
|--------------|------|------|-----|------|------|--------|--|
| | мм | IN | мм | IN | мм | IN | |
| 60MM HALYARD | 12.8 | 1/2 | 6.0 | 1/4 | 26.5 | 1 1/16 | |
| 80MM HALYARD | 14.4 | 9/16 | 8.0 | 5/16 | 29.5 | 1 1/4 | |

Racing Blocks

Delrin Balls (Bag of 100)



| PART NO | WHERE USED | DIAMETER | | |
|----------|------------------------------------|----------|------|--|
| | | мм | IN | |
| 29170022 | 60 +105 +130 BLOCKS/ FOOTBLOCKS | 4.6 | 3/16 | |
| 29171022 | 80 +155 +175 BLOCKS/ FOOTBLOCKS | 6.4 | 1/4 | |



Footblock Single With Ratchet



FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60: 2XM6/1XM10, SIZE 80: 2XM8/1XM12

SHEAVE Ø /

RATCH. DIR.

60 CCW (PORT)

60 CW (STBD)

80 CCW (PORT)

80 CW (STBD)

WLL

400

400

1000 2204

882 160

882

2204

PART NO

29906621BK

29906622ВК

29906821ВК

29906822ВК

WEIGHT

160

341

5.6

5.6

12



Footblock Double

FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60: 3XM6, SIZE 80: 3XM8 SIZE 175 : 2XM12/3XM16, SIZE 250 : 4XM16/2XM20 *TOP SHEAVE SHOULD NOT BE LOADED ABOVE 60% OF WLL

| PART NO | SHEAVE Ø | WL | _L* | WEI | GHT | |
|------------|----------|-------|-------|-------|-------|--|
| | | KG | LB | G | OZ | |
| 29906602ВК | 60 | 400 | 882 | 258 | 9.1 | |
| 29906802ВК | 80 | 1000 | 2204 | 415 | 15.0 | |
| 29906172ВК | 175 | 10000 | 22043 | 11271 | 397.6 | |

Footblock Single

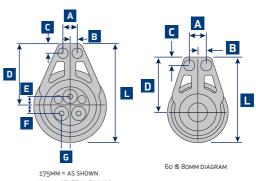


FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60 : 3XM6, SIZE 80 : 3XM8 SIZE175 : 2XM12/3XM16, SIZE 250 : 4XM16/2XM20

| PART NO | SHEAVE Ø | W | LL | WEI | GHT |
|------------|-----------|-------|-------|------|------|
| | | KG | LB | G | oz |
| 29906601ВК | 6601BK 60 | | 882 | 160 | 5.6 |
| 29906801ВК | 80 | 1000 | 2204 | 279 | 9.8 |
| 29906171BK | 175 | 10000 | 22043 | 2634 | 92.9 |

Racing Footblock Footprint Details

| SIZE | L | | Α | | В | | (| С | | D | | Е | | F | | 3 |
|-------|-----|--------|----|-------|------|-----|----|-------------------------------|-----|-------------------------------|----|-------------------|------|-------|----|-------|
| | мм | IN | ММ | IN | мм | IN | мм | IN | мм | IN | мм | IN | мм | IN | мм | IN |
| бомм | 85 | 3 1/3 | 20 | 4/5 | 10.0 | 2/5 | 16 | 5/8 | 55 | 2 1/6 | - | - | - | - | - | - |
| 8омм | 111 | 4 3/8 | 26 | 1 | 13.0 | 1/2 | 20 | 4/5 | 71 | 2 4/5 | - | - | - | - | - | - |
| 175MM | 243 | 9 4/7 | 33 | 1 2/7 | 16.5 | 2/3 | 23 | 1 | 152 | 6 | 25 | 1 | 12.5 | 1/2 | 26 | 1 |
| 250MM | 348 | 13 5/7 | 44 | 1 3/4 | 22 | 6/7 | 29 | 1 ¹ / ₇ | 210 | 8 ¹ / ₄ | 28 | 1 ¹ /9 | 28 | 1 1/9 | 28 | 1 1/9 |
| | | | | | | | | | | | | | | | | |



250MM = 4 CENTRAL FIXINGS



High Load Racing Blocks

Lewmar High Load Racing Blocks are designed to compete at the highest level. Using cutting-edge materials, the blocks minimise friction to an infinitessimal degree without compromising on load strength.

- A result of extensive testing and innovation
- High-strength alloy construction

Delrin thrust balls and torlon rollers for supreme performance

Single



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|-------|------|------|
| | | KG | LB | G | oz |
| 29941611BK | 60 | 1200 | 2640 | 281 | 9.9 |
| 29941801BK | 80 | 2400 | 5280 | 337 | 12 |
| 29941101BK | 105 | 3750 | 8250 | 605 | 21.4 |
| 29941131BK | 130 | 5000 | 11000 | 952 | 33.6 |
| 29941151BK | 155 | 7500 | 16500 | 1810 | 64 |

Single Stand Up



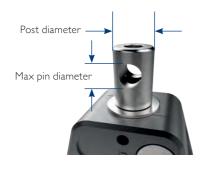
| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|-------|------|------|
| | | KG | LB | G | oz |
| 29941600ВК | 60 | 1200 | 2640 | 281 | 9.9 |
| 29941800ВК | 80 | 2400 | 5280 | 518 | 18 |
| 29941100BK | 105 | 3750 | 8250 | 727 | 25.7 |
| 29941130BK | 130 | 5000 | 11000 | 1404 | 49.6 |
| 29941150BK | 155 | 7500 | 16500 | 2396 | 84.7 |

Single & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|-------|------|------|
| | | KG | LB | G | oz |
| 29941614ВК | 60 | 1200 | 2640 | 174 | 6.1 |
| 29941804BK | 80 | 2400 | 5280 | 358 | 13 |
| 29941104BK | 105 | 3750 | 8250 | 640 | 22.6 |
| 29941134BK | 130 | 5000 | 11000 | 986 | 34.8 |
| 29941154BK | 155 | 7500 | 16500 | 1737 | 61.4 |

Shackle Post Dimensions



| BLOCKS | POST DI | AMETER | TO FIT MAX PIN Ø | | |
|--------------|---------|--------|------------------|------------------------------|--|
| | MM IN | | ММ | IN | |
| 60MM SINGLE | 11 | 3/8 | 6 | 1/4 | |
| 6омм отнек | 13.8 | 1/2 | 8 | ⁵ / ₁₆ | |
| 80MM SINGLE | 15 | 9/16 | 8 | ⁵ / ₁₆ | |
| 80MM OTHER | 19.8 | 3/4 | 10 | 3/8 | |
| 105MM SINGLE | 19.8 | 3/4 | 10 | 3/8 | |
| 105MM OTHER | 21.8 | 7/8 | 12 | 1/2 | |
| 130MM BLOCKS | 21.8 | 7/8 | 12 | 1/2 | |
| 155MM BLOCKS | 25.8 | 1 | 14 | ⁹ / ₁₆ | |

Line Size

| N. S. | MAX LII | NE SIZE |
|---|---------|---------|
| 60MM BLOCKS | 12 | 1/2 |
| 80MM BLOCKS | 14 | 9/16 |
| 80MM FIDDLES | 12 | 1/2 |
| 105MM BLOCKS | 14 | 9/16 |
| 130MM BLOCKS | 16 | 5/8 |
| 155MM BLOCKS | 18 | 11/16 |

High Load Racing Blocks

Single with Snap Shackle



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-----|
| | | KG | LB | G | OZ |
| 29941808вк | 80 | 2000 | 4400 | 496 | 18 |

Double



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29941612ВК | 60 | 2000 | 4400 | 320 | 11.3 |
| 29941802ВК | 80 | 3400 | 7480 | 655 | 23 |

Double & Becket



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT | |
|------------|-------------|-----------------------|------|-----|------|--|
| | | KG | LB | G | OZ | |
| 29941615ВК | 60 | 2000 | 4400 | 343 | 12.1 | |
| 29941805BK | 80 | 3400 | 7480 | 685 | 24 | |

Triple



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29941613ВК | 60 | 2500 | 5500 | 428 | 15.1 |

Fiddle



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|-----|
| | | KG | LB | G | oz |
| 29941831BK | 80 | 2400 | 5280 | 441 | 16 |

Fiddle & Becket



| PART NO | SHEAVE WORKING WEIG | | | | GHT | |
|------------|---------------------|------|------|-----|-----|---|
| | | KG | LB | G | oz | l |
| 29941834BK | 80 | 2400 | 5280 | 471 | 17 | l |

Web Block



| PART NO | SHEAVE Ø | WORKING LOAD LIMIT | | WEI | GHT |
|------------|-------------|-----------------------|------|-----|------|
| | | KG | LB | G | oz |
| 29901647ВК | 60 | 1400 | 3086 | 120 | 4.2 |
| 29901807ВК | 80 | 2400 | 5280 | 242 | 8.6 |
| 29901107BK | 105 | 3750 | 8250 | 417 | 14.7 |

Delrin Balls (Bag of 100)



| PART NO | WHERE USED | DIAM | ETER |
|----------|--|------|------|
| | | ММ | IN |
| 29175022 | 60HL FOOTBLOCKS | 3.2 | 1/8 |
| 29170022 | 60LL+80HL+105+130 BLOCKS/FOOTBLOCKS | 4.6 | 3/16 |
| 29171022 | 80LL+105+155 +175 BLOCKS/FOOTBLOCKS | 6.4 | 1/4 |

Torlon Rollers for Racing Blocks

| PART NO | BAG QTY | BLOCK SIZE |
|----------|---------|------------|
| | | ММ |
| 29900010 | 22 | 60 |
| 29900011 | 24 | 80 |
| 29900012 | 35 | 105 |
| 29900013 | 47 | 130 |
| 29900014 | 50 | 155 |
| 29900015 | 59 | 175 |
| 29900016 | 68 | 200 |
| 29900017 | 78 | 225 |

High Load Racing Blocks

Single Footblock



FIXINGS NOT SUPPLIED: SIZE 60MM 2XM6 / 1XM10 SIZE 80MM 2XM8 / 1XM12

SIZE 105MM 2XM10 / 1XM12 SIZE 130MM 4XM12 SIZE 155MM 2XM12 / 2XM16

PART NO SHEAVE WORKING WEIGHT LOAD LIMIT KG LB 29946611BK 60 3080 1400 132 4.7 29946801ВК 80 2400 5280 268 9.5 29946101BK 105 3750 8250 490 17.3 29946131BK 5500 12100 732 25.9 130

7500

16500

1476

52.2

Double Footblock



FIXINGS NOT SUPPLIED: SIZE 60MM 2XM6 / 1XM10 SIZE 80MM 2XM8 / 1XM12

SIZE 105MM 2XM10 / 1XM12 SIZE 130MM 4XM12 SIZE 155MM 2XM12 / 2XM16

| PART NO | SHEAVE Ø | WOR LOAD | | WEIGHT | | |
|------------|-------------|-------------|-------|--------|------|--|
| | | KG | LB | G | oz | |
| 29946612ВК | 60 | 1400 | 3080 | 252 | 8.9 | |
| 29946802ВК | 80 | 2400 | 5280 | 500 | 17.7 | |
| 29946102ВК | 105 | 3750 | 8250 | 873 | 30.8 | |
| 29946132ВК | 130 | 5500 | 12100 | 1301 | 46.0 | |
| 29946152ВК | 155 | 7500 | 16500 | 2675 | 94.5 | |

^{*}TOP SHEAVE SHOULD NOT BE LOADED ABOVE 60% OF WLL

Shackle Posts

Designed to fit Racing halyard and runner blocks.

Can be used with shackle in-line or at 90° to sheave.

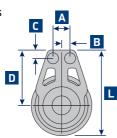


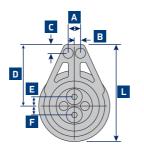
| PART NO. | SUITS | POS1 | DIA. | PIN | DIA. | BREAKING LOAD | | |
|----------|--|--|---|---|---|--|--|--|
| | | ММ | IN | ММ | IN | KG | LB | |
| 29942606 | 6омм | 17.5 | 11/16 | 8 | 5/16 | 2800 | 6170 | |
| 29942806 | 8омм | 23.75 | 7/8 | 10 | 3/8 | 5000 | 11000 | |
| 29942106 | 105MM | 24 | 1 | 10 | 3/8 | 6400 | 14100 | |
| 29942136 | 130MM | 28 | 1 1/8 | 12 | 1/2 | 10000 | 22050 | |
| 29942156 | 155MM | 36 | 13/8 | 16 | 5/8 | 15000 | 33050 | |
| | 29942606 29942806 29942106 29942136 | 29942606 60MM 29942806 80MM 29942106 105MM 29942136 130MM | 29942606 60MM 17.5 29942806 80MM 23.75 29942106 105MM 24 29942136 130MM 28 | MM IN 29942606 60MM 17.5 11/ ₁₆ 29942806 80MM 23.75 7/ ₈ 29942106 105MM 24 1 29942136 130MM 28 11/ ₈ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | PART NO. SUITS POST DIA. PIN DIA. LO MM IN MM IN KG | |

Racing Footblock Footprint Details

155

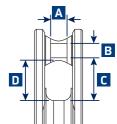
29946151BK





| SIZE | L | | 1 | АВ | | C D | | D | | F | | = | | |
|-------|-----|-------|----|-------|------|-----|----|-------|-----|-------|----|-----|------|-----|
| | мм | IN | мм | IN | мм | IN | мм | IN | мм | IN | ММ | IN | мм | IN |
| бомм | 85 | 3 1/3 | 20 | 4/5 | 10.0 | 2/5 | 16 | 5/8 | 55 | 2 1/6 | | | | |
| 8омм | 111 | 4 3/8 | 26 | 1 | 13.0 | 1/2 | 20 | 4/5 | 71 | 2 4/5 | | | | |
| 105MM | 148 | 5 % | 35 | 1 3/8 | 17.5 | 2/3 | 27 | 1 | 95 | 3 3/4 | 14 | 1/2 | 13.6 | 1/2 |
| 130MM | 181 | 7 1/8 | 40 | 1 4/7 | 20.0 | 4/5 | 33 | 1 2/7 | 111 | 4 1/3 | 18 | 5/7 | 18 | 5/7 |
| 155MM | 216 | 8 ½ | 54 | 2 1/8 | 27.0 | 1 | 50 | 2 | 138 | 5 3/7 | 20 | 4/5 | 20 | 4/5 |

Halyard and Runner Block Head Details



| BLOCK | A | Α | | В | | С | D | | |
|-----------------|------|-------------------------------|------|-------------------------------|------|---------|------|-------------------------------|--|
| | ММ | IN | ММ | IN | ММ | IN | мм | IN | |
| 60MM HL HALYARD | 12.8 | 1/2 | 8.5 | 21/64 | 25.3 | 1 | 24.0 | ¹⁵ / ₁₆ | |
| 80MM HL HALYARD | 14.4 | 9/16 | 11.0 | ⁷ ⁄ ₁₆ | 28.0 | 1 3/4 | 27.4 | 1 3/32 | |
| 80MM RUNNER | 11 | 7/16 | 11 | 7/16 | 28.6 | 1 %4 | 27.8 | 1 3/32 | |
| 105MM RUNNER | 13 | ³³ / ₆₄ | 13 | ³³ / ₆₄ | 34.0 | 1 11/32 | 32.0 | 1 1/4 | |
| 130MM RUNNER | 16 | 5/8 | 16 | 5/8 | 34.0 | 1 11/32 | 32.0 | 1 1/4 | |

Fixed Halyard Block



| PART NO | SHEAVE Ø | W | LL | WEIGHT | | |
|------------|----------|------|------|--------|------|--|
| | | KG | LB | G | oz | |
| 29902800ВК | 80 | 2500 | 5500 | 300 | 10.6 | |
| 29902100BK | 105 | 4000 | 8817 | 629 | 22.2 | |

Halyard Block



| PART NO | SHEAVE Ø | | ORKING WEIGHT AD LIMIT | | | | |
|------------|-------------|------|---------------------------|------|------|--|--|
| | | KG | LB | G | oz | | |
| 29942601BK | 60 | 1400 | 3080 | 252 | 8.9 | | |
| 29942801BK | 80 | 2400 | 5280 | 500 | 17.7 | | |
| 29902101BK | 105 | 3200 | 7054 | 457 | 16.1 | | |
| 29902131BK | 130 | 5000 | 11021 | 839 | 29.6 | | |
| 29902151BK | 155 | 7500 | 16500 | 1545 | 54.5 | | |

High Load Racing Runner Blocks

- Sheaves run on an impregnated composite bearing with dual Also available in Titanium contact your dealer. side thrust bearings for free-running at initial load.
- Optimised cheek design with non-snag bails.
- Breaking load of runner blocks is 2.5 × WLL

Runner Block



Runner Block & Becket



| PART NO | SHEAVEØ | | KING LIMIT | WEIGHT | | |
|------------|---------|-------|---------------|--------|------|--|
| | | KG | LB | G | oz | |
| 29902808вк | 80 | 2000 | 4409 | 256 | 9 | |
| 29902108ВК | 105 | 2560 | 5643 | 448 | 15.8 | |
| 29902138ВК | 130 | 4000 | 8817 | 776 | 27.4 | |
| 29902158вк | 155 | 6000 | 13226 | 1418 | 50 | |
| 29902178вк | 175 | 8400 | 18516 | 2074 | 73.2 | |
| 29902208ВК | 200 | 10000 | 22043 | 4003 | 141 | |

| PART NO | SHEAVE Ø | WOR LOAD | | WEIGHT | | |
|------------|----------|-------------|-------|--------|------|--|
| | | KG | LB | G | oz | |
| 29902809ВК | 80 | 2000 | 4409 | 265 | 9.4 | |
| 29902109ВК | 105 | 2560 | 5643 | 474 | 16.7 | |
| 29902139BK | 130 | 4000 | 8817 | 842 | 29.7 | |
| 29902159BK | 155 | 6000 | 13226 | 1569 | 55.3 | |
| 29902179BK | 175 | 8400 | 18516 | 2544 | 89.7 | |
| 29902209ВК | 200 | 10000 | 22043 | 4620 | 163 | |

Snatch Blocks

Ideal for general spinnaker use, the Snatch Block features the Lewmar snap shackle and soft, synthetic rubber cheeks to handle rough treatment. Where a snatch block is attached in a situation which does not permit full movement, such as through some toe rails, a shackle must be used to ensure full articulation.

Designed for line handling on sail boats only.



19820600 SIZE 2 SNATCH BLOCK



19830500 SIZE 3 SNATCH BLOCK



19810600 SIZE 1 SNATCH BLOCK

| PART NO | SIZE | BEARING | SHEAVE MATERIAL | WORKING L | LOAD LIMIT | BREAKIN KG | NG LOAD | SHE <i>A</i> MM | NEØ | SHEAVE MM | WIDTH | LINE MM | SIZE IN | WEI G | GHT oz |
|----------|------|-----------------|--------------------|-----------|------------|---------------|---------|--------------------|-------|--------------|-------|------------|------------|----------|-----------|
| 19810600 | 1 | STAINLESS STEEL | DELRIN | 1135 | 2500 | 2270 | 5000 | 66 | 2 5/8 | 20 | 3/4 | 14 | 9/16 | 480 | 17.0 |
| 19820600 | 2 | STAINLESS STEEL | DELRIN | 1590 | 3500 | 3180 | 7000 | 80 | 3 1/8 | 20 | 3/4 | 16 | 5/8 | 880 | 31.0 |
| 19830500 | 3 | NEEDLE ROLLER | ALUMINIUM | 2155 | 4750 | 4310 | 9500 | 80 | 3 1/8 | 20 | 3/4 | 16 | 5/8 | 1040 | 36.5 |

Block Upstands

Lewmar block upstands are designed to hold a block to the deck in a vertical direction for sail control in leisure marine application only.

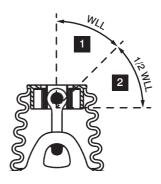
Their performance depends heavily on the specific application and suitability of installation.

Care must be taken during installation that the block upstand is suitably aligned to the expected load.

The load direction should be as close to perpendicular with the base as possible (as shown on the Alignment illustration). This will maximise the working load of the pad eye.

In addition, the load should be as close to parallel with the bail as possible. The Working Load Limit (WLL) Zones illustration shows the recommended WLL relatives to the applied force.

Working Load Limit (WLL) Zones



Alignment



Spring Block Upstand



| PART NO | TO SUIT BLOCK | WORKING LOAD LIMIT ZONE 1 | | WORKING L | LOAD LIMIT NE 2 | WEI | GHT | BASE DIA | | |
|----------|------------------------------------|---------------------------|-----|-----------|--------------------|-----|-----|----------|------|--|
| | | KG | LB | KG | LB | KG | LB | ММ | IN | |
| 29904046 | 30 ® 40MM CONTROL | 400 | 990 | 200 | 495 | 24 | 0.8 | 1 3/16 | 1/8 | |
| 29904050 | 60MM RATCHET TRIPLE ® 60MM SYNCHRO | 400 | 990 | 200 | 495 | 24 | 0.8 | 1 3/4 | 3/16 | |

Rubber-Boot Block Upstand with Pad Eye



| PART NO | TO SUIT BLOCK | WORKING L | | | LOAD LIMIT NE 2 | WEI | GHT | BASI | E DIA |
|----------|--|-----------|------|------|--------------------|-----|-----|------|-------|
| | | KG | LB | KG | LB | G | OZ | ММ | IN |
| 29195065 | 50MM HTX 60MM SYNCHRO 60MM RATCHET SINGLE / FIDDLE | 800 | 1760 | 400 | 990 | 105 | 3.7 | 58 | 2 1/4 |
| 29196065 | 60MM HTX 72MM SYNCHRO 60MM RACING LOW LOAD SINGLE | 1100 | 2420 | 550 | 1211 | 105 | 3.7 | 58 | 2 1/4 |
| 29197265 | 72MM HTX 90MM SYNCHRO | 2000 | 4400 | 1000 | 2200 | 210 | 7.4 | 73 | 2 7/8 |

Pivoting Lead Blocks

Lead blocks are a low profile solution for leading halyards or other rig sail controls back to cleats or jammers. Maintains alignment with a variable line entry-angle. The line passes through the centre of the pivot support, remaining as close to the deck as possible.

- Alloy sheave / Alloy cheeks
- Black carbon Acetal ball bearings
- Torlon® rachet pawl







Pivoting low lead ratchet



Pivoting low lead ratchet with cleat

| PART NO | DESCRIPTION | SHEAVE Ø | MAXR | OPE Ø | | KING LIMIT | WEI | GHT | FASTE | NER Ø | FASTENI TRE V | | FASTENII TRE LE | |
|----------|--------------------------------------|-------------|------|------------------------------|------|---------------|-----|------|-------|------------------|------------------|------|--------------------|--------|
| | | | ММ | IN | KG | LB | G | oz | ММ | IN | ММ | IN | ММ | IN |
| 29196012 | PIVOTING LOW LEAD HIGH LOAD | 60 | 14 | ⁹ / ₁₆ | 1500 | 3310 | 341 | 12.0 | 6.0 | ³ /16 | 45 | 13/4 | 112.5 | 4 7/16 |
| 29196014 | PIVOTING LOW LEAD RATCHET | 60 | 10 | 3/8 | 250 | 550 | 147 | 5.2 | 5.0 | 3/16 | 35 | 13/8 | 105.5 | 4 5/32 |
| 29196013 | PIVOTING LOW LEAD RATCHET WITH CLEAT | 60 | 10 | 3/8 | 250 | 550 | 285 | 10.1 | 5.0 | 3/16 | 35 | 13/8 | 105.5 | 4 5/32 |

Lewmar Synchro Snap Shackles



29925040



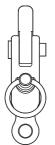
29926040



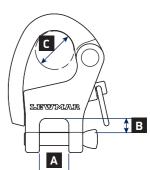
29927240



29929040



9040



| PART NO | FIT BLOCKS | WORKING L | OAD LIMIT | | AKING DAD | PIN | DIA | A | | E | 3 | C | |
|----------|---|-----------|-----------|------|--------------|-----|------|------|-------|-----|------|----|-------|
| | | KG | LB | KG | LB | ММ | IN | ММ | IN | MM | IN | ММ | IN |
| 29925040 | 50 SYNCHRO / 30 ® 40 CON- TROL SINGLE / DOUBLE | 450 | 990 | 900 | 1980 | 4 | 1/8 | 9.0 | 3/8 | 4.5 | 3/16 | 12 | 1/2 |
| 29926040 | 60 SYNCHRO / 50 HTX / 30 CONTROL TRIPLE | 800 | 1760 | 1600 | 3520 | 5 | 3/16 | 12.0 | 1/2 | 6.0 | 1/4 | 14 | 9/16 |
| 29927240 | 72 SYNCHRO / 60 HTX / 40 CONTROL TRIPLE | 1100 | 2420 | 2200 | 4840 | 6 | 1/4 | 13.0 | 1/2 | 6.5 | 1/4 | 18 | 11/16 |
| 29929040 | 90 SYNCHRO / 72 HTX | 2000 | 4400 | 4000 | 8800 | 9.5 | 3/8 | 17.5 | 11/16 | 7.5 | 5/16 | 22 | 7/8 |



Custom Blocks

With a wide range of experience across both the race boat and superyacht sectors, Lewmar can offer custom blocks for any situation. Over 70 years of practical knowledge, combined with the latest FEA techniques enables us to optimise each block for its intended application.

Structural loads found in the head of the block are routed through the side cheeks while non-load bearing material is sculpted out. Our team designs and specifies each block to the project's bespoke requirements with typical finishes including highly polished stainless steel, blasted aluminium, titanium or wood.

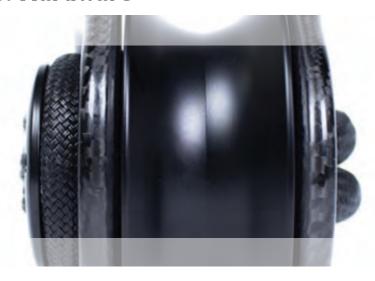
Lewmar hardware was used aboard Gypsy Moth IV's circumnavigation and has been used to win numerous America's Cups. In recent years, much of our custom block development has been focused on the stunning J-Class fleet. These beautiful classics demand the optimum combination of performance, reliability and style, and are the ultimate proving ground for our current range of custom blocks.

With all the blocks assembled and tested in our Havant, UK facility, our engineering team is able to quickly implement any lessons learnt from testing.









Soft Loop Blocks

Reaching new standards of innovation, Lewmar-Equiplite® Soft Loop Blocks are designed to be mobile, lightweight and robust with a highly flexible range of uses.

The Soft Loop Blocks feature a continuous rope loop, removable for easy and quick attachment. Ultra-lightweight alloy and carbon fibre construction ensures that the strength-to-weight ratio is unequalled in modern hardware. Combined with our specially designed range of lightweight cars, the Soft Loop Blocks are a formidable component in race systems.

The Soft Loop Blocks are a true performance product, designed for high-level sail handling.

- · High-strength alloy and carbon construction
- Detachable rope loop provides incredible flexibility
- Velcro retention strap and shaped side plates prevent accidental release
- Low-friction carbon bearing provides high working loads and performance under pressure
- Disassembles for easy maintenance
- Up to 75% weight saving over traditional systems

Core Block

The central platform of the Soft Loop Block range, the Core Block is a highly versatile component in a wide variety of applications.

- Central carbon bearing provides very little friction and unparalleled load efficiency
- Continuous fibre loop provides strength and flexibility
- Advanced materials reduce weight

| PART NO | SHEAVE Ømm | WOR LOAD | KING LIMIT | WEI | GHT |
|----------|---------------|-------------|---------------|------|------|
| | | KG | LB | G | oz |
| 29940487 | 48 | 4000 | 8818 | 160 | 5.6 |
| 29940707 | 70 | 8500 | 18740 | 460 | 16.2 |
| 29941207 | 120 | 15000 | 33070 | 1695 | 59.8 |
| 29395000 | 135 | 20000 441 | | 1950 | 68.8 |





In-Hauler

Developed specifically for barber hauler applications, the In-Hauler packages the principles of the Core Block into a refined, purpose-driven component.

- Ultimately simple design reduces weight and enhances utility
- Designed for use with barber haulers/tweakers
- Ease of use enables quick changes of sheeting configurations

| PART NO | SHEAVE Ømm | WOR LOAD | | WEI | GHT |
|------------|---------------|-------------|-------|-----|------|
| | | KG | LB | G | oz |
| 29941408IF | 16 | 2000 | 4410 | 42 | 1.5 |
| 29942010IF | 30 | 8000 | 17640 | 280 | 9.9 |
| 29943012IF | 35 | 12000 | 26460 | 350 | 12.3 |



Core Block Cars

To maximise the weight-saving gains of the Core Blocks, Lewmar have designed specialised genoa and mainsheet cars to work in harmony with the loop blocks.

- Machined from extrusion for optimum strength-to-weight ratio
- Control ends accept dead end or control blocks
- Double ball race provides innovative low friction design
- Available in various configurations for genoa and mainsheet contact your Lewmar representative for more information
- Designed to be mounted on NTR track

| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|-------|-----|------|-----|-----|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29331153BK | 1 | 2500 | 5510 | 150 | 5.9 | 66 | 2.6 | 288 | 10.2 |
| 29332259BK | 2 | 8000 | 17640 | 256 | 10.1 | 80 | 3.1 | 1662 | 58.6 |



Pad Eyes

Lewmar pad-eyes are designed for leisure marine use and for fixing blocks or similar equipment to the deck.

Their performance depends heavily on the specific application and suitability of installation.

Care must be taken during installation that the pad eye is suitably aligned to the expected load.





The load direction should be as close to perpendicular with the base as possible. This will maximise the working load of the pad eye.

In addition, the load should be as close to parallel with the bail as possible.

For more information on the deflection effect on force applied refer to the product manuals.



29904060



29192105



29904054



29904040



29904041

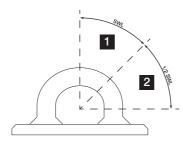


29165066

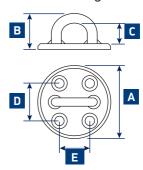


29197266

Working Load Limit (WLL) Zones



Dimension diagram



Pad Eye Specifications

| PART NO | DESCRIPTION | W 10Z | LL NE 1 | W ZON | LL NE 2 | WEI | GHT | BAR | DIA | / | A | | В | | C | I | D | I | Ε | FIXII NOT SU | |
|----------|---------------------|----------|------------|----------|------------|-----|------|------|------------------------------|-----|---------------------------------|----|---------|----|-------------------------------|----|---------------------------------|----|---------|-----------------|---------------------------------|
| | | KG | LB | KG | LB | G | OZ | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN | ММ | IN |
| 29904060 | 60/80MM PAD EYE | 3200 | 7055 | 1600 | 3527 | 154 | 5.4 | 10.0 | 3/8 | 66 | 2 19/32 | 33 | 1 19/64 | 18 | 23/32 | 34 | 111/32 | 28 | 1 3/32 | 4хм8 | 4X ⁵ ⁄ ₁₆ |
| 29192105 | 105MM PAD EYE | 5000 | 11023 | 2500 | 5512 | 435 | 15.3 | 12.7 | 1/2 | 98 | 3 ²⁷ / ₃₂ | 48 | 157/64 | 28 | 13/32 | 50 | 2 ³¹ / ₃₂ | 42 | 1 21/32 | 4XM12 | 4X 7⁄16 |
| 29904054 | 130MM PAD EYE | 7500 | 16535 | 3750 | 8267 | 787 | 27.8 | 15.8 | 5/8 | 115 | 4 ¹⁷ / ₃₂ | 58 | 2 5/16 | 34 | ¹⁵ / ₁₆ | 60 | 2 ¹¹ / ₃₂ | 48 | 1 1/8 | 4XM12 | 4X 7/16 |
| 29165066 | SMALL CAST PAD EYE | 2500 | 5511 | 1250 | 2756 | 104 | 3.7 | 8.0 | ⁵ / ₁₆ | 58 | 2 ⁹ / ₃₂ | 27 | 1 1/16 | 14 | 9/16 | 40 | 1 37/64 | 40 | 1 37/64 | 4хм6 | 4X ¹ / ₄ |
| 29197266 | MEDIUM CAST PAD EYE | 4500 | 9921 | 2250 | 4960 | 212 | 7.5 | 10.0 | 3/8 | 73 | 2 7/8 | 35 | 1 3/8 | 17 | 43/64 | 50 | 1 31/32 | 50 | 1 31/32 | 4хм8 | 4X ⁵ / ₁₆ |
| 29904040 | DIAMOND PAD EYE | 1135 | 2502 | 567 | 1250 | 45 | 1.6 | 6.0 | 7∕32 | 38 | 1 1/2 | 24 | 15/16 | 14 | 9/16 | 23 | ¹⁵ / ₁₆ | 46 | 113/16 | 4XM5 | 4X ³ / ₁₆ |
| 29904041 | SQUARE PAD EYE | 3180 | 7011 | 1590 | 3505 | 227 | 8.0 | 9.0 | 5/16 | 70 | 2 3/4 | 37 | 1 57/64 | 21 | 7/8 | 38 | 1 ½ | 38 | 1 ½ | 4хм8 | 4X ⁵ / ₁₆ |

Traveller Systems



Page 324 Ocean Size 0

- Ideal for cruising yachts up to 8.5 m (28ft)
- Internal control sheave prevents snagging
- Proven performance

• Ocean Car can be adapted to run on curved track



Page 326 NTR Size I, 2 & 3

- Popular choice for cruising and racing yachts
- Modular system suits any configuration
- Compatible with Ocean range track
- Larger sheaves results in efficient rope handling



Page 337 HTX Size I & 2

- Ideal for cruiser/racer yachts
- Complements HTX Block Range
- Unique triple ball race for reduced friction
- Minimal parts enhance performance and reliability
- Captive balls ensure easy maintenance



Page 342 T-Track

- Specialised genoa systems
- Recently restyled to enhance strength and performance
- Available in 25mm through to 65mm
- Choice of wide range of end stops



Page 345 Size 4 track and cars

- High-load control line sheaves
- Torlon balls running in fully machined ball races End stops fixed through deck and track
- Machined weight reducing slots



Page 346 Custom/Racing

- Custom hardware for yachts up to 67m (220ft) •
- Ideal for high-performance racing yachts
- Features patented double ball race
- Carries high load with low friction
- Tailored to specific applications
- Choice of finishes to suit individual requirements



Page 348 Overside Working System

- Designed to conform to CE EN 975
- Range of options available
- Based on proven technology

Traveller Systems – Selection Guide

This selection guide is designed to be used as a quick reference only. For more detailed product information visit www.lewmar.com. Calculations are based on the average modern cruising yacht. Sail area, different rigs, heavy or light displacement, multihull or monohull, are all factors which affect a yacht's specifications. Loadings should be obtained from the designer and matched to the safe working load of the hardware. Please contact your Lewmar agent if you have any questions regarding the correct hardware for your boat.

Cars Selection Guide

| APPLICATION & SHEETING POSITION | SIZE | TOWING PURCHASE M (MAXIMUM AVAIL- FT ABLE PURCHASE) | 7.3 24 | 8.5 28 | 10.3 34 | 11.5 38 | 13.4 44 | 14.6 48 | 16.4 54 | 18.2 60 | 21.3 70 | |
|---------------------------------|------|---|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| GENOA | 0 | 2:1 | | | | | | | | | | |
| END BOOM MAINSHEET | 0 | 2:1 | | | | | | | | | | |
| MID BOOM OR MULTIHULL | 0 | 2:1 | | | | | | | | | | |
| GENOA | 1 | 4:1 OR 2:1 TO WINCH | | | | | | | | | | |
| END BOOM MAINSHEET | 1 | 4:1 | | | | | | | | | | |
| MID BOOM OR MULTIHULL | 1 | 4:1 | | | | | | | | | | |
| GENOA | 2 | 4:1 OR 2:1 TO WINCH | | | | | | | | | | |
| END BOOM MAINSHEET | 2 | 5:1 | | | | | | | | | | |
| MID BOOM OR MULTIHULL | 2 | 5:1 | | | | | | | | | | |
| GENOA | 3 | 5:1 OR 2:1 TO WINCH | | | | | | | | | | |
| END BOOM MAINSHEET | 3 | 5:1 OR 2:1 TO WINCH | | | | | | | | | | |
| MID BOOM OR MULTIHULL | 3 | 5:1 OR 2:1 TO WINCH | | | | | | | | | | |

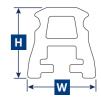


Ocean/NTR Tracks

BeamTrack

Beam track is used when spanning cockpits and across companion way hatches. Three fixing bolts should always be used either side of the span and washers fitted under the head of the bolt and between track and deck. Some beam track can only use metric fasteners

Made of Aluminium 6082T6 extrusion.



Sliding Bolt Track

Sliding bolt track has a smooth clean profile with no visible fixings and can be retro-fitted using original bolt holes – no need to worry about old track pattern holes matching up with a new track. The track is designed to permit a washer to fit on each bolt between the track and deck to ensure a secure seal.



Drilled Plunger Track

Commonly used and particularly useful where through deck fixing is not possible, such as in double-skinned boats, where fixing bolts are threaded into a plate in the deck.



Ocean/NTR Track Specifications and Fixing Details

| PART NO | DESCRIPTION | TRACK SIZE | LEN | GTH | HEI | | V | | WEI (per n | GHT | MAX SPAN FIXII CENTRE I | NGS/ | | NGS |
|--------------------------|-----------------------|------------|----------|---------------|------|------|----|------|---------------|--------|-------------------------------|---------------------------------|---------------|----------|
| | | | М | FT | ММ | IN | ММ | IN | G | oz | мм | IN | METRIC | IMPERIAL |
| 29160315ВК | BEAM TRACK | 0 | 1.5 | 4'11" | 24.7 | 0.97 | 24 | 0.44 | 954 | 33.65 | 400 | 16 | HEX HD M6 | 1/4" |
| 29162315ВК 29162320ВК | BEAM TRACK | 2 | 1.5 2 | 4'11" 6'7" | 35 | 1.38 | 35 | 1.38 | 1560 | 54.91 | 800 | 31 1/2 | HEX HD M10 | - |
| 29163315ВК | | | 1.5 | 4'11" | | | | | | | | | | |
| 29163320ВК | BEAM TRACK | 3 | 2 | 6'7" | 55 | 2.16 | 50 | 1.97 | 3640 | 128.13 | 900 | 35 ⁷ /16 | HEX HD M12 | - |
| 29163330ВК | | | 3 | 9'10" | | | | | | | | | TID MIE | |
| 29161510BK | | | 1 | 3'3" | | | | | | | | | | |
| 29161515BK | HD BEAM TRACK | 1 | 1.5 | 4'11" | 42 | 1.75 | 32 | 1.25 | 1770 | 62.4 | 900 | 35 ⁷ / ₁₆ | HEX HD M8 | 5/16" |
| 29161520BK | | | 2 | 6'7" | | | | | | | | | HD MO | |
| 29162515BK | | | 1.5 | 4'11" | | | | | | | | 7. | HEX | /0.5 |
| 29162520BK | HD BEAM TRACK | 2 | 2 | 6'7" | 51 | 2 | 51 | 2 | 3000 | 105.82 | 900 | 35 ⁷ / ₁₆ | HD M10 | 3/8" |
| 29162115BK | | | 1.5 | 4'11" | | | | | | | | | | |
| 29162120BK | SLIDING BOLT TRACK | 2 | 2 | 6'7" | 18 | 0.71 | 30 | 1.18 | 839 | 29.56 | 800 | 31 1/2 | HEX HD M8 | 5/16" |
| 29162130ВК | | | 3 | 9'10" | | | | | | | | | HD MO | |
| 29160405ВК | | | 0.5 | 1'8" | | | | | | | | | | |
| 29160410BK | DRILLED PLUNGER TRACK | 0 | 1.0 | 3'3" | 11.0 | 0.43 | 19 | 0.75 | 342 | 12.06 | 80 | 3.1 | CSK HD M5 | - |
| 29160415BK | | | 1.5 | 4'11" | | | | | | | | | | |
| 29161415BK | | | 1.526 | 5' | | | | | | | | | | |
| 29161420ВК | DRILLED PLUNGER TRACK | 1 | 2.026 | 6'8" | 13 | 0.5 | 23 | 0.9 | 530 | 18.65 | 100 | 3 ¹⁵ / ₁₆ | HEX HD M6 | 1/4" |
| 29161430BK | | | 3.026 | 9'11" | | | | | | | | | TID MO | |
| 29162415BK | | | 1.532 | 5' | | | | | | | | | | |
| 29162420BK | DRILLED PLUNGER TRACK | 2 | 2.032 | 6'3" | 15 | 0.56 | 30 | 1.18 | 764 | 26.95 | 100 | 3 ¹⁵ / ₁₆ | HEX HD M8 | 5/16" |
| 29162430ВК | | | 3.032 | 10' | | | | | | | | | HD MO | |
| 29163615BK | | | 1.548 | 5'1" | | | | | | | | | | |
| 29163620ВК | DRILLED PLUNGER TRACK | 3 | 2.048 | 6'9" | 21 | 0.84 | 35 | 1.38 | 968 | 33.88 | 100 | 3 ¹⁵ / ₁₆ | HEX HD M10 | 3/8" |
| 29163630ВК | | | 3.048 | 10'1" | | | | | | | | | нимти | |



Size 0 Ocean Cars

Despite being the smallest range Lewmar produce, Size 0 Ocean hardware is strong, durable and efficient, providing excellent performance and reliability.

- For boats up to 8.5m/28ft.
- Use 50mm/60mm blocks.
- Suitable for 6mm (1/4") control line.

Short Car with Delrin Balls & Shackle



Short Car with Delrin Balls, Loop & Single Sheaves



| PART NO | WOR LOAD | | LEN | GTH IN | WIE | OTH | WEI G | GHT oz |
|------------|-------------|-----|------|-----------|-----|-----|----------|-----------|
| | NG NG | LB | IMIM | IIN | MIM | IIN | J 6 | 02 |
| 29330105BK | 200 | 440 | 73 | 2.87 | 51 | 2 | 150 | 6 |

Car with Delrin Balls, Shackle & Single Sheaves



| PART NO | WOR LOAD | LIMIT | | GTH I | WIE | I | WEI | |
|------------|-------------|-------|-----|----------|-----|----|-----|------|
| | KG | LB | MM | IN | MM | IN | G | 0Z |
| 29030100BK | 450 | 990 | 123 | 4.83 | 51 | 2 | 210 | 7.39 |

Car with Delrin Balls, Pivoting Loop & Single Sheaves



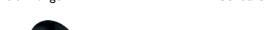
| PART NO | | KING LIMIT | LEN | GTH | WIE | DTH | WEI | GHT |
|------------|-----|---------------|-----|------|-----|-----|-----|-----|
| | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29330107BK | 450 | 990 | 124 | 4.88 | 51 | 2 | 250 | 8.5 |

Car with Slide Rods, Shackle & Plunger



| PART NO | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|-------------------|---------------------|-----------|-----------|-----------|-----------|----------|-----------|
| 29030600ВК | 450 | 990 | 123 | 4.83 | 51 | 2 | 225 | 7.92 |

Genoa Car with Slide Rods & Plunger





| PART NO | WOR LOAD KG | | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|-------------------|------|-----------|-----------|-----------|-------------|----------|-----------|
| 29040600ВК | 600 | 1325 | 123 | 4.83 | 51 | 2 | 427 | 15.03 |

Genoa Car with Delrin Balls & Single Sheave



| PART NO | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | | |
|------------|-----------------------|------|--------|------|-------|----|--------|-------|--|
| | KG | LB | мм | IN | мм | IN | G | OZ | |
| 29040100BK | 600 | 1325 | 123 | 4.83 | 51 | 2 | 427 | 15.03 | |

Size 0 Ocean End Stops

Control Line End Stop with Single Sheave



| PART NO | WORKING LOAD LIMIT | | LEN | LENGTH | | WIDTH | | WEIGHT | |
|------------|-----------------------|-----|-----|--------|----|-------|----|--------|--|
| | KG | LB | ММ | IN | ММ | IN | G | oz | |
| 29170030BK | 200 | 440 | 58 | 2.3 | 51 | 2 | 78 | 2.75 | |

Control Line End Stop with Sheave, Becket & Cam



| PART NO | WOR LOAD | | LEN | LENGTH | | OTH IN | WEIGHT G 0z | | |
|------------|-------------|-----|-----|--------|----|-----------|----------------|-------|--|
| | 110 | | | | MM | | | 02 | |
| 29170033BK | 200 | 440 | 65 | 2.3 | 51 | 2 | 397 | 13.97 | |

Simple Track End

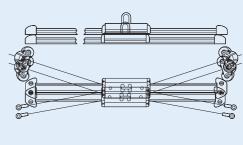


| PART NO | WEIGHT | | | | |
|------------|--------|-----|--|--|--|
| | G | oz | | | |
| 29170040BK | 10 | -35 | | | |

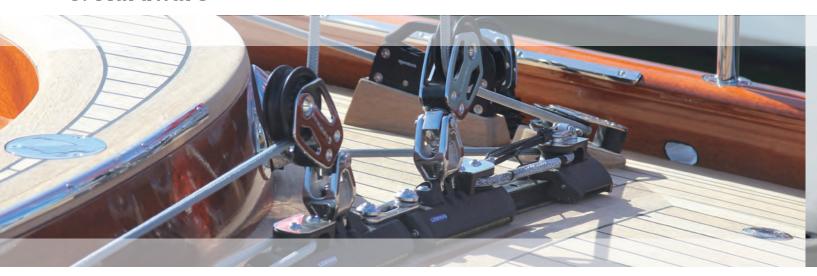
Size 0 Ocean Traveller Kit - 2:1 Purchase System

Lewmar makes selecting your mainsheet system simple - with complete Mainsheet System Kits. Lewmar's Size 0 Ocean Mainsheet System is a complete kit made specifically for yachts up to 28 feet (8.5m).

| PART NO | DESCRIPTION |
|------------|-------------------------------|
| 29060152ВК | SIZE O OCEAN TRAVELLER SYSTEM |
| COMPRISES: | |
| 29030100BK | 1 X MAINSHEET CAR |
| 29170040BK | 2 X SIMPLE END STOP |
| 29160112 | 1 X 1.2M SLIDING BOLT TRACK |
| 29171010 | 1 X SIZE 1 DEAD EYE |
| 29104100BK | 2 X SMALL COMPOSITE CLEAT |
| 29904104 | 2 X SMALL CAM FAIRLEAD |
| | |



| BOAT SIZE | UP TO 8.5M | UP TO 28FT |
|-------------------------------|------------------|--------------------|
| MAX MAINSAIL AREA (END BOOM): | 16M ² | 170FT ² |
| MAX MAINSAIL AREA (MID BOOM): | 12M ² | 130FT ² |
| SAFE WORKING LOAD: | 400KG | 990LBS |
| | | |



NTR Cars Size I - 2 and 3

The NTR range is the foundation of Lewmar's traveller systems. Found on production yachts across the world, NTR is reliable, seaworthy and designed to perform.

A modular design, NTR cars can be built from components into any configuration, with simple maintenance and servicing. This flexible platform means that every sailor's needs and preferences can be catered for without expensive alterations. Backwards compatibility with our Ocean range ensures the longevity of existing and new systems.

- Popular choice for cruising and racing yachts
- Modular system suits any configuration
- Compatible with Ocean Range track
- · Larger sheaves result in efficient rope handling

NTR cars are available with two friction-reducing systems:

Torlon Balls (TB)

- Continuous ball race
- High-strength Torlon ensures optimum performance and load management
- Innovative arrangement provides car movement at a range of load angles
- Replacement balls available

Slide Rods (SR)

- Simpler, fixed system
- Rods are easy to maintain and replace
- Suitable for more static applications where movement is less vital
- Durable materials





NTR Mainsheet Traveller Systems



Size I Mainsheet System

In the Size I kit, you'll find all the components necessary to assemble a standard system.

- For boats up to I Im (36ft)
- Suitable for 8mm (5/16") control line

Size 2 Mainsheet System

Like the size I system, the Size 2 Mainsheet system comes with everything you need for a complete standard system, including the sliding bolt track.

- For boats up to 15m (49ft)
- Suitable for 10mm (3/8") control line

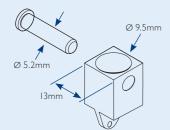
Size 1&2 Traveller Kit 4:1 Purchase System

| | - | |
|---|------------|------------|
| | SIZE 1 | SIZE 2 |
| TRAVELLER SYSTEM | 29461354ВК | 29462354ВК |
| COMPRISES: | | |
| 1 X MAINSHEET CAR SHACKLE WITH DOUBLE CONTROL LINE SHEAVES, CLEATS ® BECKETS | 29431916вк | 29432916вк |
| 2 X END STOP WITH DOUBLE CONTROL LINE SHEAVES | 29471032BK | 29472032BK |
| 1 X SLIDING BOLT TRACK | 29161115ВК | 29162118ВК |
| TRACK LENGTH | 1.5M | 1.8M |

| TRACK SIZE | SIZE 1 | SIZE 2 |
|---------------------|--|--|
| BOAT SIZE | UP TO 11M (36FT) | UP TO 14.6M (48FT) |
| MAX. MAINSAIL AREA: | | |
| END BOOM: | 34M ² (366FT ²) | 46M ² (495FT ²) |
| MID BOOM: | 21M ² (226FT ²) | 38M ² (410FT ²) |
| SAFE WORKING LOAD: | 900KG (1980 LB) | 1000KG (2000 LB) |

NTR Cars Size I - 2 and 3

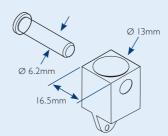
Size I Upstand Cup Detail



Size I upstand fits the following blocks:

- 60 synchro blocks
- 50 HTX blocks
- Racing Blocks (See block dims)
- HLRacing Blocks (See block dims)

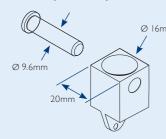
Size 2 Upstand Cup Detail



Size 2 upstand fits the following blocks:

- 72 synchro blocks
- 60 HTX blocks
- Racing Blocks (See block dims)
- HLRacing Blocks (See block dims)

Size 3 Upstand Cup Detail



Size 3 upstand fits the following $^{\mbox{\scriptsize 0}\mbox{\scriptsize 16mm}}$ blocks:

- 90 synchro blocks
- 72 HTX blocks
- Racing Blocks (See block dims)
- HLRacing Blocks (See block dims)

Size 3 HL Upstand Link Detail



Size 3 upstand fits the following blocks:

- 105 synchro blocks
- 90 HTX blocks
- Racing Blocks (See block dims)
- HLRacing Blocks (See block dims)

NTR Torlon Ball (TB) Mainsheet Cars Size 1, 2 and 3

TB Short Car with Shackle



| PART NO | SIZE | WOR LOAD KG | | LEN | GTH IN | WIE | OTH I IN | WEI G | GHT oz |
|------------|------|-------------------|------|-----|---------------------------------|-----|-------------------|----------|-----------|
| 29421300BK | 1 | 600 | 1329 | 107 | 4 3/16 | 71 | 2 ³ /4 | 228 | 8.00 |
| 29422300BK | 2 | 1100 | 2420 | 140 | 5 ¹ / ₂ | 92 | 3 ⁵ /8 | 386 | 13.6 |
| 29423301BK | 3 | 2000 | 4400 | 150 | 5 ¹⁵ / ₁₆ | 88 | 3 1/2 | 680 | 24.0 |

TB Short Car with Upstand



| PART NO | PART NO SIZE LOAD LIMIT | | | LENGTH | | WIDTH | | WEIGHT | |
|------------|-------------------------|------|------|--------|---------------------------------|-------|-------------------|--------|------|
| | | KG | LB | мм | IN | мм | IN | G | 0Z |
| 29421400BK | 1 | 600 | 1329 | 107 | 4 3/16 | 71 | 2 3/4 | 241 | 8.50 |
| 29422400BK | 2 | 1100 | 2420 | 140 | 5 ¹ / ₂ | 92 | 3 ⁵ /8 | 397 | 14 |
| 29423400BK | 3 | 2000 | 4400 | 150 | 5 ¹⁵ / ₁₆ | 88 | 3 1/2 | 781 | 27.3 |

TB Car with Shackle



| | I | | | I | | I | | I | |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------|-----|------|
| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE | DTH . | WEI | GHT |
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431300BK | 1 | 900 | 1980 | 162 | 6 3/8 | 71 | 2 3/4 | 313 | 11.0 |
| 29432300BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 5/8 | 639 | 22.5 |
| 29433300BK | 3 | 2500 | 5500 | 215 | 8 1/2 | 88 | 3 1/2 | 924 | 32.3 |

TB Car with Upstand





* 29432420 fitted with size 3 upstand

| | 1 | i . | | apota. | | î . | | î . | |
|-------------|------|-------------|---------------|--------|--------------------------------|-----|-------------------|-----|------|
| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431400BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 364 | 12.8 |
| 29432400BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 767 | 27 |
| 29432420BK* | 2* | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 839 | 33 |
| 29433400BK | 3 | 2500 | 5500 | 215 | 8 1/2 | 88 | 3 1/2 | 743 | 26.0 |

NTR Torlon Ball (TB) Mainsheet Cars Size I, 2 and 3

TB Car with Shackle and Single Control Line Sheaves



| | PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE |)TH | WEI | GHT |
|---|------------|------|-------------|------|-----|--------------------------------|-----|-------------------|-----|------|
| | | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 2 | 29431311BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 374 | 13.2 |
| 2 | 29432311BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 747 | 26.3 |

TB Car with Upstand and Single Control Line Sheaves



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------------------|------|------|
| | | KG | LB | ММ | IN | MM | IN | G | OZ |
| 29431411BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 421 | 14.8 |
| 29432411BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 875 | 30.9 |
| 29433602ВК | 3* | 3500 | 7700 | 270 | 10 5/8 | 88 | 3 1/2 | 1595 | 55.8 |

TB Car with Shackle, Single CL Sheaves & Becket



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE | DTH | WEI | GHT |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431315BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 378 | 13.2 |
| 29432315BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 867 | 34.1 |

TB Car with Upstand, Single CL Sheaves & Becket



| PART NO | SIZE | | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|------|------|---------------------|-----------|--------------------------------|-----------|-------------------|----------|-----------|
| 29431415BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 472 | 16.6 |
| 29432415BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 993 | 35 |

TB Car with Shackle and Double Control Line Sheaves





* 29432372BK fitted with double ball bearing control line sheaves

WORKING WIDTH WEIGHT PART NO SI7F LENGTH LOAD LIMIT G KG LB ММ 2 3/4 1980 162 $6^{3}/_{8}$ 15.3 29431312BK 900 435 29432312BK 29432372BK 3 ⁵/8 34.6 1500 3300 34.8 29433314BK 215 8 1/2 2500 5500 3 1/2 993

TB Car with Upstand and Double Control Line Sheaves





* 29433604BK fitted with size 3 HL upstand

| PART NO | SIZE | WOR LOAD | LIMIT | LEN | | WIE | I | WEI | 1 |
|------------|------|-------------|-------|-----|--------------------------------|-----|-------------------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431412BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 486 | 17.1 |
| 29431712BK | 1* | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 486 | 17.1 |
| 29432412BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 997 | 35.1 |
| 29432424BK | 2* | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 1050 | 37 |
| 29433414BK | 3 | 2500 | 5500 | 215 | 8 1/2 | 88 | 3 1/2 | 1200 | 42 |
| 29433604ВК | 3* | 3500 | 7700 | 270 | 10 5/8 | 88 | 3 1/2 | 1610 | 56.8 |

NTR Torlon Ball (TB) Mainsheet Cars Size 1, 2 and 3

TB Car with Shackle, Double CL Sheaves & Becket



| PART NO | SIZE | WOR LOAD | LIMIT | LEN | GTH | WIE | DTH I | WEI | |
|------------|------|-------------|-------|-----|--------------------------------|-----|-------------------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431316ВК | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 ³ / ₄ | 390 | 13.7 |
| 29432316вк | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 991 | 39 |

TB Car with Upstand, Double CL Sheaves & Becket



| PART NO | SIZE | LOAD | KING LIMIT | | GTH I | WIDTH | | WEI | l . |
|------------|------|------|---------------|-----|--------------------------------|-------|-------------------|------|------|
| | | KG | LB | MM | IN | MM | IN | G | OZ |
| 29431416BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 540 | 19.0 |
| 29432416BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 92 | 3 ⁵ /8 | 1117 | 39-4 |
| 29433416BK | 3 | 2500 | 5500 | 215 | 8 1/2 | 88 | 3 1/2 | 1790 | 62.6 |

TB Car with Shackle and Plunger



| PART NO | SIZE | WOR LOAD KG | | LEN | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|------|-------------------|------|-----|-------------------------------|-----------|-------------|----------|-----------|
| 29431337BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 364 | 12.8 |

TB Car, 2 x Sz3 Upstand, Double CL Sheaves, Becket & Cam





upstand

| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH IN | WIE | OTH I IN | WEI G | GHT oz |
|------------|------|-------------|---------------|--------|-----------|--------|-------------|----------|-----------|
| | | | | 1-11-1 | | 1-11-1 | | | "- |
| 29432836вк | 2* | 2800 | 6160 | 307 | 12 1/16 | 120 | 4 3/4 | 2173 | 85.5 |

^{*} Car WWL, cleat WLL shown on p346

TB Car with Shackle, Double CL Sheaves & Cam (4:1)



| PART NO | SIZE | | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|------|-----|---------------------|-----------|-------------------------------|-----------|-------------|----------|-----------|
| 29431834BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 97 | 3 3/4 | | |

^{*} Car WWL, cleat WLL shown on p346

Radius Cars

Radius cars available upon request for all size 1, 2 and 3.

Please contact your Lewmar representative and specify your track Vertical or Horizontal radius.

TB Car with Upstand, Double CL Sheaves & Cam (4:1)



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29431814BK | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 97 | 3 3/4 | 759 | 26.7 |
| 29432814BK | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1496 | 52.7 |

^{*} Car WWL, cleat WLL shown on p346

Spare Bearings: Torlon Balls for Ocean & NTR Cars

| PART NO | DESCRIPTION | WHERE USED | DIAMETE | |
|----------|------------------------|------------------------|---------|------|
| | | | мм | IN |
| 29171021 | TORLON BALLS (PER 100) | SZ1 OCEAN AND NTR CARS | 6.4 | 1/4 |
| 29172021 | TORLON BALLS (PER 100) | SZ2 OCEAN AND NTR CARS | 7.8 | 5/16 |



NTR Torlon Ball (TB) Mainsheet Cars Size I, 2 and 3

TB Car with Shackle, Double CL Sheaves, Becket & Cam (5:1)



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH IN | WIE | OTH | WEI G | GHT oz |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------|----------|-----------|
| 29431916вк | 1 | 900 | 1980 | 162 | 6 ³ / ₈ | 97 | 3 3/4 | 799 | 28.2 |
| 29432916вк | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1730 | 68.1 |

^{*} Car WWL, cleat WLL shown on p346

TB Car Long, 2x Upstand, Double CL Sheaves





* 29432832BK fitted with size 3 upstand

| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------|------|-------------------|---------------------|-----------|-----------|-----------|-------------|----------|-----------|
| 29432822BK | 2 | 1800 | 3960 | 307 | 12 1/16 | 92 | 3 5/8 | 1460 | 51.5 |
| 29432832ВК | 2* | 2800 | 6160 | 307 | 12 1/16 | 92 | 3 5/8 | 1560 | 55 |
| 29433832BK | 3 | 3500 | 7700 | 270 | 10 5/8 | 88 | 3 1/2 | 1810 | 63.8 |

NTR Torlon Ball (TB) Genoa Cars Size I, 2 and 3

TB Car with Upstand, Double CL Sheaves, Becket & Cam (5:1)





* 29432838BK fitted with size 3 upstand

| PART NO | 5 | SIZE | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | | |
|-----------|----|------|-----------------------|------|--------|--------------------------------|-------|-------|--------|------|--|
| | | | KG | LB | ММ | IN | ММ | IN | G | OZ | |
| 294328161 | вк | 2 | 1500 | 3300 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1610 | 56.7 | |
| 294328381 | вк | 2* | 3500 | 7700 | 307 | 12 1/16 | 120 | 4 3/4 | 1786 | 70.3 | |

^{*} Car WWL, cleat WLL shown on p346

TB Car Long, 3x Upstand, Double CL Sheaves





* 29432833BK fitted with size 3 upstand

| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|---------------|-----|---------|-----|-------------------------------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29432823ВК | 2 | 3000 | 6600 | 307 | 12 1/16 | 92 | 3 5/8 | 1460 | 51.5 |
| 29432833ВК | 2* | 3500 | 7700 | 307 | 12 1/16 | 92 | _{3 5} / ₈ | 1560 | 55 |
| 29433833ВК | 3 | 4000 | 8800 | 300 | 11 3/4 | 88 | 3 1/2 | 2190 | 77.2 |

TB Short Genoa Car with Tow Point



| PART NO | SIZE | LOAD | | | GTH I | WIE | I | WEI | ı |
|------------|------|------|------|-----|----------|-----|-------------------------------|-----|------|
| | | KG | LB | MM | IN | MM | IN | G | OZ |
| 29421366вк | 1* | 600 | 1320 | 107 | 4 3/4 | 71 | 2 ³ / ₄ | 521 | 18.3 |

 $[\]ensuremath{^{*}}$ Limiter supplied non-assembled for a port or starboard application

TB Genoa Car with Becket



| PART NO | SIZE | WOR LOAD | | LEN MM | GTH IN | WIE | OTH I IN | WEI G | GHT oz |
|------------|------|-------------|------|-----------|--------------------------------|-----|-------------|----------|-----------|
| 29441301BK | 1* | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 577 | 20.3 |
| 29442301BK | 2* | 1800 | 3960 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1327 | 46.8 |

^{*} Limiter supplied non-assembled for a port or starboard application

NTR Torlon Ball (TB) Genoa Cars Size I, 2 and 3

TB Genoa Car with Single Control Line Sheave



| PART NO | SIZE | WOR LOAD KG | | LEN MM | GTH IN | WIE MM | DTH IN | WEII G | GHT oz |
|------------|--------|-------------------|-------|-----------|--------------------------------|-----------|-------------------------------|-----------|-----------|
| 29441311BK | 1* | | | | | | | | |
| 29441321BK | 1 PORT | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 ³ / ₄ | 560 | 19.8 |
| 29441331BK | 1 STBD | | | | | | | | |
| 29442311BK | 2* | | | | | | | | |
| 29442321BK | 2 PORT | 1800 | 3960 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1330 | 46.9 |
| 29442331BK | 2 STBD | | | | | | | | |
| 29443311BK | 3 | 3500 | 7700 | 215 | 8 1/2 | 88 | 3 1/2 | 1565 | 54.8 |
| 29443611BK | 3 | 5000 | 11000 | 320 | 12 5/8 | 88 | 3 1/2 | | |

^{*} Limiter supplied non-assembled for a port or starboard application

TB Genoa Car with Double Control Line Sheaves



| | PART NO | SIZE | WOR LOAD | | LEN | GTH IN | WIE | OTH I IN | WEI G | GHT oz | |
|-----|--|--------|-------------|------|--------|--------------------------------|--------|-------------|----------|-----------|---|
| | | | NO. | LD | IAIIAI | IIN | IAIIAI | IIN | ٥ | 02 | ı |
| | 29441312BK | 1* | | | | | | | | | |
| | 29441322BK | 1 PORT | 900 | 1980 | 162 | $6^{3}/_{8}$ | 71 | 2 3/4 | 566 | 19.9 | |
| | 29441332BK | 1 STBD | | | | | | | | | ı |
| | 29442312BK | 2* | | | | | | | | | l |
| | 29442322BK | 2 PORT | 1800 | 3960 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1354 | 47.7 | |
| | 29442332BK | 2 STBD | | | | | | | | | |
| 264 | the factor and the discourse the difference of the second conditions to | | | | | | | | | | |

st Limiter supplied non-assembled for a port or starboard application

TB Car Genoa stirrup, single CL sheave and becket



| | PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | DTH IN | WEI G | GHT oz |
|---|------------|------|-------------------|---------------------|-----------|--------------------------------|-----------|-----------|----------|-----------|
| 2 | 29441345BK | 1* | 900 | 1980 | 162 | 6 ³ / ₈ | 71 | 2 3/4 | 566 | 19.9 |
| 2 | 9442345BK | 2* | 1800 | 3960 | 210 | 8 ⁵ / ₁₆ | 120 | 4 3/4 | 1359 | 47.9 |

^{*} Limiter supplied non-assembled for a port or starboard application

NTR Slide Rod (SR) Cars Size I, 2 and 3

SR Car with Shackle



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|---------------|-----|--------------------------------|-----|-------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29431500BK | 1 | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 230 | 8.11 |
| 29432500BK | 2 | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 65 | 2 ⁵ /8 | 559 | 19.7 |

Spare Bearings: Torlon Balls for Ocean & NTR Cars



| PART NO | DESCRIPTION | WHERE USED | DIAM | ETER |
|----------|------------------------|------------------------|------|------|
| | | | ММ | IN |
| 29171021 | TORLON BALLS (PER 100) | SZ1 OCEAN AND NTR CARS | 6.4 | 1/4 |
| 29172021 | TORLON BALLS (PER 100) | SZ2 OCEAN AND NTR CARS | 7.8 | 5/16 |

Expert advice

Current Lewmar track is NTR specification.

If retrofitting check your track using the following:

- Size 3 NTR tracks have 12mm Ø plunger holes
- Size 3 Ocean tracks have 9.5mm Ø plunger holes

SR Car with Shackle and Plunger Stop



| PART NO | SIZE | | WORKING LOAD LIMIT | | GTH | WIE |)TH | WEIGHT | | |
|------------|------|------|-----------------------|-----|--------------------------------|-----|-------------------------------|--------|------|--|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ | |
| 29441723BK | 1 | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 264 | 9.3 | |
| 29442723BK | 2 | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 65 | 2 ⁵ / ₈ | 577 | 19.6 | |

NTR Slide Rod (SR) Cars Size I, 2 and 3

SR Car with Shackle and Single Control Line Sheaves



| PART NO | SIZE | | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT Oz |
|------------|------|------|---------------------|-----------|--------------------------------|-----------|-------------------|----------|-----------|
| 29432511BK | 2 | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 65 | 2 ⁵ /8 | 667 | 23.5 |

SR Car with Shackle and Double Control Line Sheaves



| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE | DTH | WEI | GHT | |
|------------|------|-------------|------|-----|--------------------------------|-----|-------------------|-----|------|---|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ | ĺ |
| 29432512BK | 2 | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 65 | 2 ⁵ /8 | 791 | 27.9 | |

SR Car with Upstand and Double Control Line Sheaves



| PART NO | SIZE | WOR LOAD KG | KING LIMIT | LEN | IGTH | WIE | OTH IN | WEI G | GHT _{oz} |
|------------|------|-------------------|---------------|--------|--------------------------------|--------|-------------------|----------|------------------------|
| | | NG | LB | IAIIAI | "" | IVIIVI | 1114 | | 02 |
| 29442412BK | 2 | 2000 | 4400 | 210 | 8 ⁵ / ₁₆ | 65 | 2 ⁵ /8 | 795 | 8 |

SR Genoa Car



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE | DTH | WEI | GHT |
|------------|------|-------------|---------------|-----|-------------------------------|-----|-------------------|------|------|
| | | KG | LB | мм | IN | мм | IN | G | OZ |
| 29441500BK | 1* | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 480 | 16.8 |
| 29442500BK | 2* | 1800 | 3960 | 194 | 7 ⁵ /8 | 65 | 2 ⁵ /8 | 1100 | 38.8 |

^{*} Limiter supplied non-assembled for a port or starboard application

SR Genoa Car with Plunger Stop



| | | | | | | | | 1 | |
|-------------|-----------------------------|-------------|------|-----|--------------------------------|-----|---------------------------------|------|------|
| PART NO | SIZE / DESCRIPTION | WOR LOAD | | LEN | GTH | WII | DTH | WEI | GHT |
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 294417**BK | 1 | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 480 | 16.8 |
| 294427**BK | 2 | 1800 | 3960 | 194 | 7 ⁵ /8 | 65 | 2 ⁵ /8 | 1201 | 42.4 |
| 29443700BK | 3 (NTR TRACK) | 3500 | 7700 | 180 | 7 ¹ / ₁₆ | 70 | 2 ¹³ / ₁₆ | 1410 | 49.4 |
| 29443700CBK | 3 (OCEAN TRACK) | 3500 | 7700 | 180 | 7 1/16 | 70 | 2 ¹³ / ₁₆ | 1410 | 49.4 |
| 29443702BK | 3 (NTR COMPOSITE SHEAVE) | 2250 | 4950 | 180 | 7 ¹ / ₁₆ | 70 | 2 ¹³ / ₁₆ | 1079 | 37.8 |

^{**} Insert 00 for limiter non-assembled, 20 for port limiter and 30 for starboard limiter

SR Genoa Car with Single Control Line Sheaves



| PART NO | SIZE | WOR LOAD KG | | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz | |
|------------|------|-------------------|------|-----------|-------------------------------|-----------|-------------|----------|-----------|--|
| 29441513BK | 1* | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 484 | 17 | |

^{*} Limiter supplied non-assembled for a port or starboard application

NTR End Stops Size I, 2 and 3



40 1 1/2

46 1 3/4

24 0.8







500 1100

29905105BK

| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE |)TH | WEI | GHT |
|------------|------|-------------|------|-----|-------|-----|-------|-----|-----|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29471030BK | 1 | 585 | 1287 | 47 | 1 7/8 | 29 | 1 1/8 | 99 | 3.5 |
| 29472030BK | 2 | 750 | 1650 | 105 | 4 1/8 | 65 | 2 5/8 | 238 | 8.4 |





| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE | DTH . | WEI | GHT |
|------------|------|-------------|------|-----|-------|-----|-------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29472535BK | 2 | 750 | 1650 | 105 | 4 1/8 | 65 | 2 ⁵ /8 | 338 | 11.9 |
| | | | | | • | | | • | |







NTR End Stops Size 1, 2 and 3

End Stop with Double CL Sheaves



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | IGTH | WIE | DTH | WEI | GHT |
|------------|------|-------------|---------------|-----|---------|-----|---------------------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 29471032BK | 1 | 585 | 1287 | 75 | 1 45/64 | 50 | 2 | 172 | 6.1 |
| 29472032BK | 2 | 750 | 1650 | 105 | 4 1/8 | 65 | 2 5/8 | 363 | 12.8 |
| 29473032BK | 3 | 800 | 1760 | 93 | 3 11/16 | 70 | 2 ¹³ / ₁₆ | 390 | 13.7 |

End Stop with Double CL Sheaves and Becket







bearing control line

** Fitted with HDI control line sheaves

| PART NO | SIZE | WOR LOAD KG | | LEN MM | GTH IN | WI[MM | DTH IN | WEI G | GHT oz |
|------------|--------|-------------------|------|-----------|-----------|-----------|---------------------------------|----------|-----------|
| 29471036вк | 1 | 585 | 1287 | 47 | 1 55/64 | 29 | 19/64 | 185 | 6.5 |
| 29472036вк | 2 | 750 | 1650 | 105 | 4 1/8 | 65 | 2 5/8 | 393 | 13.8 |
| 29472076вк | 2* | 750 | 1650 | 105 | 4 1/8 | 65 | 2 5/8 | 400 | 14.1 |
| 29472616ВК | 2** | 750 | 1650 | 105 | 4 1/8 | 65 | 2 5/8 | 400 | 14.1 |
| 29473036вк | 3 | 800 | 1760 | 93 | 3 11/16 | 70 | 2 ¹³ / ₁₆ | 460 | 16.1 |
| 29473136вк | 3 (HL) | 3000 | 6600 | 140 | 5 1/2 | 70 | 2 ¹³ / ₁₆ | 769 | 27.1 |

End Stop with Double CL Sheaves, Becket & Cam (pair)



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE | DTH | WEI | GHT |
|------------|------|-------------|---------------|-----|---------------------------------|-----|--------------------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 29471836вк | 1 | 585 | 1287 | 75 | 2 ⁶¹ / ₆₄ | 78 | 3 ⁵ / ₆₄ | 258 | 9.1 |
| 29472836вк | 2 | 750 | 1650 | 105 | 4 1/8 | 112 | 4 ⁵ /8 | 602 | 21.2 |

^{*} End stop WWL, cleat WLL shown on p346

End Stop Sheet Lead



| PART NO | SIZE | WOR LOAD KG | | LEN | GTH I IN | WIE | OTH | WEI: | GHT oz |
|------------|------|-------------------|------|-----|-------------------------------|-----|---------------------------------|------|-----------|
| | | | | | | | | | |
| 29441701BK | 1 | 1000 | 2200 | 162 | 6 ³ / ₈ | 50 | 2 | 480 | 16.8 |
| 29442701BK | 2 | 1800 | 3960 | 194 | 7 ⁵ /8 | 65 | 2 ⁵ /8 | 1134 | 40 |
| 29443701BK | 3 | 2000 | 4400 | 140 | 5 1/2 | 70 | 2 ¹³ / ₁₆ | 885 | 31 |

Plunger Stop



- If retrofitting check your track:

 29473037BK fits size 3 NTR tracks (12mm Ø plunger holes)
- 29473037CBK fits size 3 Ocean tracks (9.5mm Ø plunger holes)

| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE | DTH . | WEI | GHT |
|-------------|------|-------------|------|-----|--------------------------------|-----|---------------------------------|-----|------|
| | | KG | LB | ММ | IN | MM | IN | G | OZ |
| 29471037BK | 1 | 650 | 1430 | 43 | 1 11/16 | 50 | 2 | 83 | 2.9 |
| 29472037BK | 2 | 975 | 2145 | 87 | 3 3/8 | 65 | 2 5/8 | 261 | 9.2 |
| 29473037BK | 3* | 2000 | 4400 | 80 | 3 3/16 | 70 | 2 ¹³ / ₁₆ | 298 | 10.4 |
| 29473037CBK | 3* | 2000 | 4400 | 80 | 3 ³ / ₁₆ | 70 | 2 ¹³ / ₁₆ | 298 | 10.4 |

Track End



| PART NO | SIZE | WEI | GHT |
|------------|------|-----|------|
| | | G | OZ |
| 29171040BK | 1 | 22 | 0.77 |
| 29172040BK | 2 | 30 | 1.1 |
| 29173040BK | 3 | 42 | 1.5 |

NTR Car Links

Short Car Link



| PART NO | SIZE |
|------------|------|
| 29471063ВК | 1 |
| 29472063ВК | 2 |
| 29473063ВК | 3 |

Car Link with Sz3 Upstand



| PART NO | SIZE |
|------------|------|
| 29472062ВК | 2 |
| 317 | |

NTR Spares and Accessories

Beam Track End Cover (Pair)



| PART NO | SIZE | WEIGHT | |
|------------|------|--------|-----|
| | | G | oz |
| 29471041BK | 1 | 12 | 0.4 |
| 29472041BK | 2 | 26 | 0.9 |
| 29473041BK | 3 | 42 | 1.5 |

HD Beam Track End Cover (Pair)



| PART NO | SIZE | LENGTH | | WIDTH | | WEIGHT | | I |
|------------|------|--------|-----|-------|-------------------|--------|-----|---|
| | | мм | IN | ММ | IN | G | OZ | l |
| 29471042BK | 1 | 13 | 1/2 | 50 | 2 | 18 | 0.6 | ı |
| 29472042BK | 2 | 22 | 7/8 | 65 | 2 ⁵ /8 | 40 | 1.4 | l |

Single Control Line Sheaves (Pair)



| PART NO | SIZE | SHE. | AVE Ø | WEI | GHT |
|------------|------|------|-------|-----|-----|
| | | мм | IN | G | OZ |
| 29471011BK | 1 | 29 | 1 1/8 | 82 | 2.9 |
| 29472011BK | 2 | 63 | 2 1/2 | 137 | 4.8 |

Double Control Line Sheaves (Pair)



| PART NO | SIZE | SHE | AVE Ø | WEI | GHT |
|------------|------|-----|-------|-----|-----|
| | | ММ | IN | G | oz |
| 29471012BK | 1 | 29 | 1 1/8 | 148 | 5.2 |
| 29472012BK | 2 | 63 | 2 1/2 | 261 | 9.2 |

Double Control Sheaves & Cleats (Pair)



| PART NO | SIZE | WOR LOAD KG | | WEI G | GHT Oz |
|------------|------|-------------------|-----|----------|-----------|
| 29471018BK | 1 | 180 | 396 | 180 | 6.3 |
| 29472018BK | 2 | 180 | 396 | 625 | 22 |

Cleat Assembly for End Stop (Pair)



| PART NO | SIZE | WORKIN LIN KG | IG LOAD /IIT LB | WEI G | GHT oz |
|------------|------|---------------------|-------------------------|----------|-----------|
| 29471015BK | 1 | 180 | 396 | 123 | 4.3 |
| 29472015BK | 2 | 180 | 396 | 368 | 12.9 |

Genoa Stirrup Assembly



| PART NO | SIZE | LOAD | | | OTH I | WEI | 1 |
|------------|------|------|------|----|-------------------|-----|------|
| | | KG | LB | MM | IN | G | OZ |
| 28003225BK | 1 | 1000 | 2200 | 45 | 1 3/4 | 227 | 8 |
| 28003226ВК | 2 | 1800 | 3960 | 60 | 2 ³ /8 | 620 | 21.9 |

Upstand Assembly



| PART NO | SIZE |
|----------|------|
| 29171024 | 1 |
| 29172024 | 2 |
| 29473024 | 3 |

Becket Assembly (Pair)



| PART NO | SIZE | WEI | GHT |
|----------|------|-----|-----|
| | | G | OZ |
| 29471010 | 1 | 51 | 1.7 |
| 29472010 | 2 | 114 | 4.2 |

Slide Rods



| PART NO | SIZE |
|----------|------|
| 25002920 | 1 |
| 25003438 | 2 |
| 25003969 | 3 |

Rubber Buffer Kit



| PART NO | SIZE |
|------------|------|
| 29171046ВК | 1 |
| 29172046ВК | 2 |
| 29173046ВК | 3 |

To fit end stops and slide rod cars



HTX Size I & 2 Cars

Lewmar has developed the HTX Traveller Range to complement the HTX Block Range. This range of travellers has come from many years of design and manufacturing experience and collaboration with boat builders, designers, and sailors. At the core of the HTX Traveller Range is the Captive Ball Traveller. Featuring the neat, stylish retention of the ball bearings within the car, the Captive Ball Traveller is simple to install and easy to remove for cleaning and maintenance without the risk of losing ball bearings.



- Ideal for boats up to 15 metres (49 ft)
- Minimalistic car body made of fewer parts
- Compact, one-piece aluminium body and composite end caps designed with smoother lines
- Available in multiple configurations, including single or double control line sheaves, becket, and cam cleat
- Compatible slide-rod Genoa car with stirrup
- Three individual ball races: the first two allow fast movement of the car under vertical load, and the third allows smooth running of the car under deflection

- Larger balls means more ball surface exposure, increasing overall efficiency
- Ball bearings circulate through an open structure allowing easy cleaning when installed
- Proprietary dowel mechanism provides smooth ball circulation
- Upstand receives shackle or lashed rope, removing need for a becket above the control line sheaves



HTX Mainsheet Traveller Systems

Traveller kits are made up of all the necessary components to assemble a standard system.

Each one comes with Lewmar's sliding bolt track, which allow you to retrofit the new track to your deck using the original bolt holes.

Size I Mainsheet System

In the Size I kit, you'll find all the components necessary to assemble a standard system.

- For boats up to I Im (36ft)
- Suitable for 8mm (5/16") control line

Size 2 Mainsheet System

Like the size I system, the Size 2 Mainsheet system comes with everything you need for a complete standard system, including the sliding bolt track.

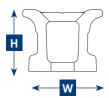
- For boats up to 15m (49ft)
- Suitable for 10mm (3/8") control line

Size 1&2 Traveller Kit 4:1 Purchase System

| | SIZE 1 | SIZE 2 |
|---|------------|------------|
| TRAVELLER SYSTEM | 29461354ВК | 29462354вк |
| COMPRISES: | | |
| 1 X MAINSHEET CAR SHACKLE WITH DOUBLE CONTROL LINE SHEAVES, CLEATS ℚ BECKETS | 291213315 | 291223415 |
| 2 X END STOP WITH DOUBLE CONTROL LINE SHEAVES | 291218806 | 291228806 |
| 1 X SLIDING BOLT TRACK | 29181415 | 29182420 |
| TRACK LENGTH | 1.5M | 2.0M |

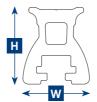
HTX Size I & 2 Tracks

Drilled Plunger Track



Commonly used and particularly useful where through deck fixing is not possible, such as in double skinned boats, where fixing bolts are trapped into a plate in the deck.

Beam Track



Beam track is used when spanning cockpits and across companion way hatches. Three fixing bolts should always be used either side of the span and washers fitted under the head of the bolt and between track and deck. Some beam track can only use metric fasteners

Made of Aluminium 6082T6 extrusion

HTX Track Specifications and Fixing Details

| PART NO | DESCRIPTION | TRACK SIZE | 1 | | HEIGHT | | W |)TH | WIE (over | OTH RALL) | WEI (per r | netre) | MAX SPAN FIXIN CENTRE HOL | NGS/ | FIXI | NGS |
|----------|---|------------|-------|-------|--------|------|------|------|--------------|--------------|---------------|--------|---------------------------------|---------------------------------|--------|----------|
| | | | М | FT | ММ | IN | MM | IN | | | G | OZ | ММ | IN | METRIC | IMPERIAL |
| 29181415 | | | 1.526 | 5' | | | | | | | | | | | | |
| 29181420 | 29181420 DRILLED PLUNGER TRACK 29181430 | 1 | 2.026 | 6'8" | 20 | 0.78 | 22.0 | 0.86 | 25 | 0.98 | 658 | 23.21 | 100 | 3 ¹⁵ /16 | м6 | 1/4" |
| 29181430 | | | 3.026 | 9'11" | | | | | | | | | | | | |
| 29182415 | | | 1.532 | 5' | | | | | | | | | | | | |
| 29182420 | DRILLED PLUNGER TRACK | 2 | 2.032 | 6'3" | 24 | 0.94 | 26.4 | 1.04 | 31 | 1.22 | 933 | 32.91 | 100 | 3 ¹⁵ /16 | м8 | 5/16" |
| 29182430 | | | 3.032 | 10' | | | | | | | | | | | | |
| 29181315 | | | 1.5 | 4'11" | | | 0 | | | | | -0 | | 9, | | 5/16" |
| | BEAM TRACK | 1 | 2.0 | 6'7" | 31 | 1.22 | 27.8 | 1.09 | | | 1092 | 38.52 | 700 | 27 ⁹ / ₁₆ | M10 | 7/16 |
| 29182315 | DEALLEDACK | | 1.5 | 4'11" | | 4.55 | 25.4 | 4.00 | | | 4600 | 50 OC | 800 | 24.4/2 | | 2/0" |
| 29182320 | BEAM TRACK | 2 | 2.0 | 6'7" | 40 | 1.57 | 35.1 | 1.38 | | | 1697 | 59.86 | 000 | 31 1/2 | M12 | 3/8" |

HTX Size I & 2 Cars

Size I Traveller System

For boats up to IIm (36ft)

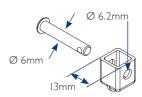
Suitable for 8mm (5/16") control line

Size 2 Traveller System

For boats up to 15m (49ft).

Suitable for I0mm (3/8") control line.

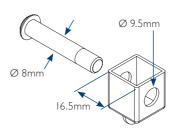
HTX Size I Upstand Cup Detail



Size I upstand fits the following blocks:

- 72 Synchro blocks
- 60 HTX blocks
- 60 Single Racing blocks

HTX Size 2 Upstand Cup Detail

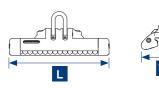


Size 2 upstand fits the following blocks:

- 90 Synchro blocks
- 72 HTX blocks
- 80 Triple Racing blocks

HTX Size I & 2 Torlon Ball (TB) Mainsheet Cars

Mainsheet Car - Dimension Diagram



TB Short Car with Shackle

Size I Traveller System

For boats up to 11m (36ft)
Suitable for 8mm (5/16") control line

Size 2 Traveller System

For boats up to 15m (49ft). Suitable for 10mm (3/8") control line.

TB Car with Shackle



| PART NO | SIZE | WOR LOAD KG | | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|-----------|------|-------------------|------|-----------|-------------------------------|-----------|-------------------|----------|-----------|
| 291222301 | 2 | 1500 | 3300 | 140 | 5 ¹ / ₂ | 85 | 3 ³ /8 | 525 | 18.5 |



| PART NO | SIZE | WORKING LOAD LIMIT KG LB | | LEN | LENGTH | |)TH | WEIGHT | | |
|-----------|-------------------------------------|--------------------------------|------|-----|--------------------------------|----|---------------------------------|--------|------|--|
| | | KG | LB | ММ | IN | ММ | IN | G | 0Z | |
| 291213301 | 1 | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 427 | 15.1 | |
| 291223301 | TNO SIZE LOAD LIN KG 13301 1 1100 2 | | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 772 | 27.2 | |

TB Car with Shackle and Single Control Line Sheaves



| PART NO | SIZE | | WORKING LOAD LIMIT | | GTH | WIE | DTH | WEIGHT | | |
|-----------|------|------|-----------------------|-----|--------------------------------|-----|---------------------------------|--------|------|--|
| | | KG | LB | ММ | IN | мм | IN | G | OZ | |
| 291213305 | 1 | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 450 | 15.9 | |
| 291223305 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 880 | 31.0 | |

TB Car with Shackle and Double Control Line Sheaves



| PART NO | SIZE | WORKING LOAD LIMIT | | LEN | GTH | WIE |)TH | WEIGHT | |
|-----------|------|-----------------------|------|-----|--------------------------------|-----|-------|--------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 291223306 | 2 | 2000 | 4400 | 205 | 8 ¹ / ₁₆ | 85 | 3 3/8 | 980 | 34.6 |

TB Car with Shackle, Single Control Sheaves & Becket



| PART NO | SIZE | WORKING LOAD LIMIT | | LEN | IGTH | WIE | отн | WEI | GHT |
|-----------|------|-----------------------|------|-----|--------------------------------|-----|---------------------------------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 291213308 | 1 | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 510 | 18.0 |
| 291223308 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 1156 | 40.8 |

TB Car with Upstand, Single Control Sheaves & Becket



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|-----------|------|-------------|---------------|-----|--------------------------------|-----|---------------------------------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 291213408 | 1 | 800 | 1764 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 545 | 19.2 |
| 291223408 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 1310 | 46.2 |

TB Car with Upstand, Double Control Sheaves & Cleat



| PART NO | SIZE | LOAD | KING LIMIT | | GTH I | WIE | | WEI | |
|-----------|------|------|---------------|-----|--------------------------------|-----|--------------------------------|------|------|
| | | KG | LB | MM | IN | MM | IN | G | OZ |
| 291213412 | 1 | 800 | 1600 | 167 | 6 ⁹ / ₁₆ | 98 | 3 7/8 | 780 | 27.5 |
| 291223412 | 2 | 2200 | 4850 | 225 | 8 ⁷ / ₈ | 132 | 5 ³ / ₁₆ | 1690 | 59.6 |

^{*} Car WWL, cleat WLL shown on p354

TB Car with Upstand and Double Control Sheaves



| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|-----------|------|-------------------|---------------------|-----------|--------------------------------|-----------|---------------------------------|----------|-----------|
| 291213406 | 1 | 800 | 1600 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 627 | 22.1 |
| 291223406 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 3/8 | 1250 | 44.1 |

TB Car with Shackle, Double Control Sheaves, Becket & Cleat

TB Car with Upstand, Double Control Sheaves, Becket & Cleat



| PART NO | SIZE | | KING LIMIT LB | LEN MM | GTH IN | WIE | OTH I IN | WEI G | GHT oz |
|-----------|------|------|---------------------|-----------|--------------------------------|-----|--------------------|----------|-----------|
| 291213315 | 1 | 1100 | 2420 | 167 | 6 ⁹ / ₁₆ | 98 | 3 7/8 | 750 | 26.5 |
| 291223315 | 2 | 2200 | 4850 | 225 | 8 ⁷ /8 | 132 | 5 ³ /16 | 1580 | 55.7 |

^{*} Car WWL, cleat WLL shown on p354



^{*} Car WWL, cleat WLL shown on p354

291223415

HTX Size 2 Double Upstand Torlon Ball (TB) Mainsheet Cars

TB Car with Double Upstand

TB Car with Double Upstand and Double Control Sheaves



| PART NO | SIZE | | IG LOAD VIT | | GTH | WIE | DTH. | WEI | GHT | |
|-----------|------|------|----------------|-----|-----|-----|-------|------|------|--|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ | |
| 291223601 | 2 | 2600 | 5732 | 305 | 12 | 85 | 3 3/8 | 1920 | 67.7 | |



| PART NO | SIZE | | IG LOAD | LEN | GTH | WIE | DTH | WEI | GHT |
|-----------|------|------|---------|-----|-----|-----|-------|------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 291223606 | 2 | 2600 | 5732 | 305 | 12 | 85 | 3 3/8 | 2249 | 79.3 |

HTX Size I & 2 Slide Rod (SR) Cars

SR Car with Shackle



| PART NO | SIZE | WOR LOAD | | LEN | GTH | WIE |)TH | WEI | GHT |
|-----------|------|-------------|------|-----|--------------------------------|-----|---------------------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 291213501 | 1 | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 310 | 10.9 |
| 291223501 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 3/8 | 730 | 25.8 |

SR Car with Shackle and Plunger



| PART NO | SIZE | | KING LIMIT | LEN | IGTH | WIE |)TH | WEI | GHT |
|-----------|------|------|---------------|-----|--------------------------------|-----|---------------------------------|-----|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 291213537 | 1 | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 365 | 12.9 |
| 291223537 | 2 | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 3/8 | 790 | 27.9 |

HTX Size I & 2 Genoa Cars

SR Genoa Car with Plunger



| PART NO | SIZE | WOR LOAD ĸg | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|-----------|------------------|-------------------|---------------------|-----------|--------------------------------|-----------|---------------------------------|----------|-----------|
| 291214537 | 1 PORT 1 STBD | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 630 | 22.2 |
| 291215537 | | | | | | | | | |
| 291224537 | 2 PORT | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 1500 | 52.9 |
| 291225537 | 2 STBD | | 4030 | 205 | 0 /16 | " | 3 /8 | 1,000 | 32.9 |

TB Genoa Car with Single Control Line Sheave



| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|------------------------|------------------|-------------------|---------------------|-----------|--------------------------------|-----------|---------------------------------|----------|-----------|
| 291214305 291215305 | 1 PORT 1 STBD | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 650 | 22.9 |
| 291224305 291225305 | 2 PORT 2 STBD | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 3/8 | 1600 | 56.4 |

TB Genoa Car with Single Control Line Sheave & Becket



| | PART NO | SIZE | | KING LIMIT | LEN | GTH | WIE |)TH | WEI | GHT |
|--|-----------|--------|------|---------------|-----|--------------------------------|-----|---------------------------------|------|------|
| | | | KG | LB | мм | IN | мм | IN | G | OZ |
| | 291214308 | 1 PORT | 1100 | 2420 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 650 | 22.9 |
| | 291215308 | 1 STBD | 1100 | 2420 | 100 | 0 /16 | /± | 2 /16 | 050 | 22.9 |
| | 291224308 | 2 PORT | 2200 | 4850 | 205 | 8 ¹ / ₁₆ | 85 | 3 ³ /8 | 1600 | 56.4 |
| | 291225308 | 2 STBD | 2200 | 4050 | 205 | 0 /16 | 05 | 3 /8 | 1000 | 50.4 |

HTX Size I & 2 End Stops

Impact End Stop



| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz | |
|-----------|------|-------------------|---------------------|-----------|-----------|-----------|---------------------------------|----------|-----------|---|
| 291218818 | 1 | 500 | 1100 | 83 | 3 1/4 | 71 | 2 ¹³ / ₁₆ | 190 | 6.7 | l |
| 291228818 | 2 | 1000 | 2200 | 103 | 4 1/16 | 85 | 33/8 | 350 | 12.3 | |

Plunger Stop



| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WI[MM | OTH IN | WEI G | GHT oz | |
|-----------|------|-------------------|---------------------|-----------|--------------------|-----------|---------------------------------|----------|-----------|--|
| 291218837 | 1 | 500 | 1100 | 83 | 3 1/4 | 71 | 2 ¹³ / ₁₆ | 245 | 8.6 | |
| 291228837 | 2 | 1000 | 2200 | 103 | 4 ¹ /16 | 85 | 33/8 | 475 | 16.8 | |

End Stop with Single Control Line Sheave



| PART NO | SIZE | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | |
|-----------|------|-----------------------|------|--------|-------------------------------|-------|---------------------------------|--------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | oz |
| 291218805 | 1 | 500 | 1100 | 83 | 3 ¹ / ₄ | 71 | 2 ¹³ / ₁₆ | 210 | 7.4 |
| 291228805 | 2 | 1000 | 2200 | 103 | 4 1/16 | 85 | 33/8 | 400 | 14.1 |

End Stop with Double Control Line Sheaves



| | | | | _ | | 1 | | | |
|-----------|------|--------------------------------|------|-----------|--------------------|-----|---------------------------------|----------|-----------|
| PART NO | SIZE | WORKING LOAD LIMIT KG LB | | LEN MM | GTH IN | WIE | OTH IN | WEI G | GHT oz |
| 291218806 | 1 | 500 | 1100 | 83 | 3 1/4 | 71 | 2 ¹³ / ₁₆ | 240 | 8.5 |
| 291228806 | 2 | 1000 | 2200 | 103 | 4 ¹ /16 | 85 | 33/8 | 450 | 15.9 |

End Stop with Single Control Line Sheave & Becket





| PART NO | SIZE | WOR LOAD KG | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH IN | WEI G | GHT oz |
|-----------|------|-------------------|---------------------|-----------|--------------------|-----------|---------------------------------|----------|-----------|
| 291218808 | 1 | 500 | 1100 | 83 | 3 1/4 | 71 | 2 ¹³ / ₁₆ | 240 | 8.5 |
| 291228808 | 2 | 1000 | 2200 | 103 | 4 ¹ /16 | 85 | 3 3/8 | 450 | 15.9 |

End Stop with Double Control Line Sheaves & Becket



| PART NO | SIZE | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | |
|-----------|------|-----------------------|------|--------|--------|-------|---------------------------------|--------|------|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ |
| 291218809 | 1 | 500 | 1100 | 83 | 3 1/4 | 71 | 2 ¹³ / ₁₆ | 270 | 9.5 |
| 291228809 | 2 | 1000 | 2200 | 103 | 4 1/16 | 85 | 3 3/8 | 500 | 17.6 |

End Stop with Double Control Line Sheaves, Becket & Cleat



| PART NO | SIZE | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | | |
|------------------------|--------|-----------------------|------|--------|-------------------------------|-------|--------------------|--------|------|--|
| | | KG | LB | ММ | IN | ММ | IN | G | oz | |
| 291214815 291215815 | 1 PORT | 500 | 1100 | 83 | 3 ¹ / ₄ | 98 | 37/8 | 365 | 12.9 | |
| 291224815 | 2 PORT | 1000 | 2200 | 102 | 4 1/16 | 132 | 5 ³ /16 | 740 | 26.1 | |
| 291225815 | 2 STBD | 1000 | 2200 | 103 | 4 /16 | 132 | 5 716 | 740 | 20.1 | |

End Stop Sheet Lead



| PART NO | SIZE | WORKING LOAD LIMIT | | LENGTH | | WIDTH | | WEIGHT | |
|-----------|------|-----------------------|------|--------|--------------------------------|-------|---------------------------------|--------|------|
| | | KG | LB | MM | IN | ММ | IN | G | OZ |
| 291218817 | 1 | 500 | 1100 | 160 | 6 ⁵ / ₁₆ | 71 | 2 ¹³ / ₁₆ | 600 | 21.2 |
| 291228817 | 2 | 1000 | 2200 | 205 | 8 1/16 | 85 | 3 3/8 | 1400 | 49.3 |

HTX Track End



| PART NO | SIZE | LEN | GTH | WIE | ОТН | WEIGHT | | |
|-----------|------|-----|-------|------|-------|--------|-----|--|
| | | ММ | IN | мм | IN | G | oz | |
| 291219907 | 1 | 40 | 15/8 | 57.5 | 2 1/4 | 20 | 0.7 | |
| 291229907 | 2 | 45 | 1 3/4 | 65 | 2 1/2 | 40 | 1.4 | |

Sz I & 2 HTX Spares and Accessories

Cleat Assembly for End stop (Pair)



| PART NO | SIZE | WORKING L | OAD LIMIT |
|-----------|------|-----------|-----------|
| | | KG | LB |
| 291219905 | 1 | 200 | 440 |
| 291229905 | 2 | 300 | 660 |

Spare Slide Rods Kit



| PART NO | SIZE |
|-----------|------|
| 291219910 | 1 |
| 291229910 | 2 |

Spare Rubber Buffer Kit



| PART NO | SIZE |
|-----------|------|
| 291219911 | 1 |
| 291229911 | 2 |

HTX Upstand Kit



| PART NO | SIZE |
|-----------|------|
| 291219901 | 1 |
| 291229901 | 2 |

^{*} End stop WWL, cleat WLL shown on p354



Genoa T-Track Cars

T-Track is widely used on cruising boats where car sheeting positions change frequently.

All Lewmar T-Track cars fit the industry standard: 32mm (1 1/4"). The cars are available in three styles and cover three different loading levels to suit boats from 9m (30ft) up to 15.5m (50ft).

- Precision Workmanship
- Simple to fit
- Three Styles
- Low Maintenance

Car with Shackle and Plunger



| PART NO | SIZE | LOAD | KING LIMIT | LEN | ĺ | WIE | ı | WEI | 1 | |
|----------|------|------|---------------|-----|---------|-----|-------|-----|------|---|
| | | KG | LB | MM | IN | MM | IN | G | OZ | l |
| 29172117 | 2 | 1500 | 3300 | 120 | 4 11/16 | 56 | 2 1/4 | 480 | 17.0 | |

Genoa Plunger Car



| PART NO | SIZE | WOR LOAD | LIMIT | | GTH I | WIE | I | WEI | |
|----------|------|-------------|-------|-----|----------|-----|-------|------|------|
| | | KG | LB | MM | IN | MM | IN | G | OZ |
| 29041700 | 1 | 900 | 1980 | 111 | 4 3/8 | 56 | 2 1/4 | 540 | 19.1 |
| 29042700 | 2 | 1500 | 3300 | 120 | 4 11/16 | 56 | 2 1/4 | 719 | 25.3 |
| 29043702 | 3 | 2350 | 5170 | 170 | 6 3/4 | 56 | 2 1/4 | 1199 | 47.3 |

Tri-Roller Genoa Car



| PART NO | SIZE | WOR LOAD | KING LIMIT | LEN | GTH | WIE |)TH | WEI | WEIGHT | | |
|----------|------|-------------|---------------|-----|-------|-----|-------|-----|--------|--|--|
| | | KG | LB | ММ | IN | ММ | IN | G | OZ | | |
| 29442705 | 2 | 1500 | 3300 | 147 | 5 3/4 | 64 | 2 1/2 | 767 | 27.1 | | |

Track End Stop

| PART NO | WEI | GHT |
|----------|-----|-----|
| | G | OZ |
| 29172016 | 19 | 0.7 |



T-Track Specification





| PART NO | NOMINAL LENGTH | | HEIGHT | | WIDTH | | WEIGHT (PER METRE) | | CENTRE HOLE | | FIXINGS | |
|----------|-------------------|-------|--------|-----|-------|-------|-----------------------|------|-------------|---------------------------------|-----------|--------------------------------|
| | М | FT | мм | IN | мм | IN | мм | IN | G | oz | METRIC | IMPERIAL |
| 29166215 | 1.5 | 4'11" | | | | | | | | | | |
| 29166225 | 2.5 | 8'2" | 15 | 5/8 | 32 | 1 1/4 | 865 | 30.5 | 100 | 3 ¹⁵ / ₁₆ | CSK M8 | ⁵ / ₁₆ " |
| 29166230 | 3.0 | 9'10" | | | | | | | | | | |

Size 4 Cars and Accessories

For offshore yachts 60ft and over and the performance sailor.

- High load 80mm (3 1/8") control line sheaves for 14mm (9/16") line.
- 12mm (1/2") torlon balls running in fully machined ball races.
- Additional weight reducing slots machined along the top of the return ball race
- End stops fixed through deck and track
- Custom variants available contact custom@lewmar.com

Size 4 Racing Mainsheet car



| PART NO | DESCRIPTION | | KING LIMIT LB | LEN MM | GTH IN | WIE MM | OTH NI | WEI G | GHT oz | |
|----------|--|------|---------------------|-----------|-----------|-----------|-------------|----------|-----------|--|
| 29903401 | SINGLE UPSTAND AND SINGLE CONTROL LINE SHEAVES | 8000 | 17634 | 465 | 18 3/8 | 113 | 4 7/16 | 5195 | 183.2 | |
| 29903402 | TWIN UPSTAND AND SINGLE CONTROL LINE SHEAVES | 8000 | 17634 | 465 | 18 3/8 | 113 | 4 7/16 | 5195 | 183.2 | |

Size 4 Racing Genoa car



| PART NO | DESCRIPTION | WOR LOAD KG | | LEN MM | GTH IN | WIE MM | OTH IN | LINE HEI | | WEI G | GHT oz |
|------------|--|-------------------|-------|-----------|-----------|-----------|-------------|-------------|-------|----------|-----------|
| 29903451BK | GENOA STIRRUP ® DEAD EYE- PORT | 6000 | 13225 | 385 | 15 1/8 | 113 | 4 7/16 | 137 | 5 3/8 | 6740 | 236.5 |
| 29903452BK | GENOA STIRRUP ® DEAD EYE- STARBOARD | 0000 | 13223 | 303 | 131/0 | 113 | 4 / 10 | -57 | 3 3/0 | 0,40 | 250.5 |
| 29903453 | GENOA STIRRUP WITH SINGLE CL SHEAVE- PORT | 6000 | 13225 | 385 | 15 1/8 | 113 | 4 7/16 | 137 | 5 3/8 | 6740 | 236.5 |
| 29903454 | GENOA STIRRUP WITH SINGLE CL SHEAVE- STBD | 0000 | 13223 | 300 | 151/0 | 113 | 4 / 16 | -3/ | 3 3/0 | 0,40 | 230.5 |
| 29903457 | GENOA STIRRUP WITH SLIDE ROD PLUNGER- PORT | 6000 | 12225 | 385 | 15 1/8 | 112 | 4 7/16 | 107 | 5 3/8 | 6740 | 236.5 |
| 29903458 | GENOA STIRRUP WITH SLIDE ROD PLUNGER- STBD | 0000 | 13225 | 305 | 15 1/6 | 113 | 4 /16 | 137 | 5 3/0 | 0/40 | 230.5 |

Size 4 Racing End Stop









29905400

29905401

29905412

29905414

| 242710 | 0 | | 0.45 . 11.417 | | | | | | 6117 |
|------------|---------------------------|-----------|---------------|-----|--------------------|-----|--------|--------|------|
| PART NO | DESCRIPTION | WORKING I | _UAD LIMIT | LEN | IGTH | WIE | JIH | WEIGHT | |
| | | KG | LB | мм | IN | мм | IN | G | OZ |
| 29905400ВК | HIGH LOAD IMPACT END STOP | 4000 | 8817 | 185 | 7 1/4 | 113 | 4 7/16 | 1040 | 36.7 |
| 29905401BK | TRACK END | 1000 | 2204 | 110 | 4 ⁵ /16 | 113 | 4 7/16 | 580 | 20.5 |
| 29905410 | CONTROL LINE END STOP | 6000 | 13225 | 185 | 7 1/4 | 113 | 4 7/16 | 1500 | 52.9 |
| 29905412 | PLUNGER STOP | 3000 | 6613 | 110 | 4 ⁵ /16 | 113 | 4 7/16 | 897 | 31.6 |
| 29905414 | TRACK PLUG | | | | | | | 36 | 1.3 |

Size 4 Tracks

Size 4 Drilled plunger track Specifications & Fixing Details

| PART NO | | LENGTH | | H W WIDTH | | WEIGHT (per metre) | | MAX SPAN BETWEEN FIXINGS / CENTRE HOLE | | FIXINGS | | | |
|---------|------------|--------|-------|-----------|-------|-----------------------|----|--|------|-------------|-----|---------|----------|
| | | М | FT | MM | IN | MM | IN | G | OZ | MM | IN | METRIC | IMPERIAL |
| | 29917420BK | 2. | 6'7" | | | | | | | | | | |
| | 29917430BK | 3 | 9'10" | | , | | _ | 0 | -0.0 | | 15, | | , |
| | 29917440BK | 4 | 13'1" | 29 | 1 1/6 | 50 | 2 | 2228 78.6 | | 100 3 15/16 | | CSK M12 | 1/2 |
| | 29917450BK | 5 | 16'5" | | | | | | | | | | |





Lewmar Custom Yacht Systems

On Deck Control Systems

Custom yacht have individual requirements for sail control equipment, from application and loads to the profile of the deck on which the equipment will be installed. Each Lewmar track is designed with these specific requirements in mind.

Recent innovations included track that can be curved to bespoke dimensions, including multidirectional compound curves. The high load double ball race (DBR) profile offers a stronger, deeper section for use with high load cars, while T-track and DBR track feature machined track ends for a lightweight, low-profile car retention solution.

Lewmar Custom Mainsheet and Genoa systems are ideal for yachts from 2 lm (70ft) to 70m (230ft) in length. Each car is available with a choice of recirculating Torlon balls or the shorter, stronger Double Ball Race (DBR) configuration. Styled with snag-free soft edges, Lewmar cars are machined from solid to individual specifications. A full range of end stops are available, including high-load impact, plunger, and control line models.

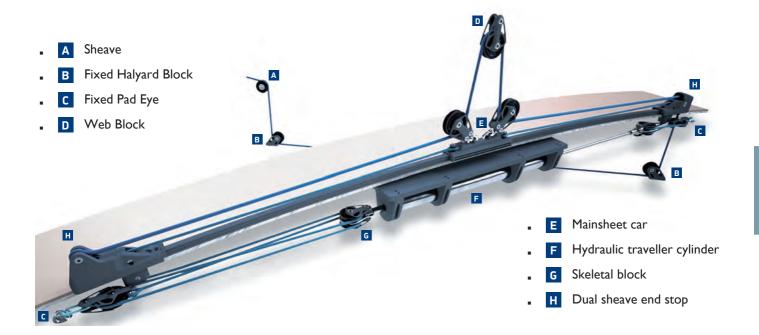


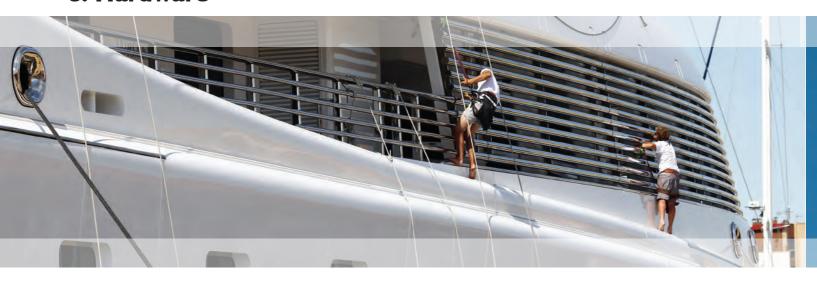




Below Deck Sheeting System

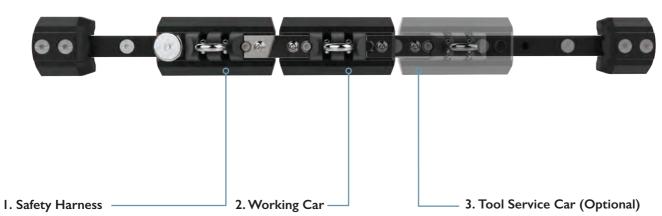
Each element of the Lewmar Custom Hardware Range is compatible with its counterparts, resulting in the ability to supply a complete, bespoke sail control system. For example, an increasing emphasis on beautiful, sleek, minimalistic lines has resulted in the below-deck sheeting system, which offers a light-weight, fully-optimised system that does not clutter the clean lines of the deck. With a choice of configurations and finishes available, Lewmar can provide a system suited to your individual requirements.





Overside Work Rail System

Lewmar's Overside Work Rail System is designed to provide access to difficult areas at height. As a solution to a problem found across the marine sector and wider industry, our Overside System is well-designed and practical, conforming to neccessary regulations.



- Use a full body safety harness attached to the plunger pin stop car slider:
- Full body harness must meet CE/ANSI support
 standards
- Use a working harness or chair attached to access car.
- Working harness or chair must meet CE/ANSI standards.
- Attach an optional car and joiner link for use as

a tool carrier



CE standard certification EN 795.



Design

Two car system with lock plunger mechanism. The plunger feature allows movement along the track while open but can lock to position on the track while working. Offering ease of movement and strong stability when locked.

Ball Bearings

Torlon® ball bearings handle high loads, reducing friction offering smooth operation along the track. Ball bearings circulate through open structure allowing easy cleaning when installed.

Materials

Black Compact, one-piece aluminium body, Torlon® ball bearings & black anodized aluminium track.

| PART NO. BLACK | DESCRIPTION | SWL (KG) | LENGTH (MM) | WIDTH (MM) | WEIGHT (G) |
|----------------|--|-------------|----------------|---------------|---------------|
| 29913313BK | SZ1 O/S WORK CAR DOUBLE | 125 | 265 | 66 | 966 |
| 29913310BK | SZ1 0/S WORK CAR SINGL SHACKLE PLUNGER | 125 | 130 | 66 | 476 |
| 29913311BK | SZ1 0/S WORK CAR SINGLE SHACKLE | 125 | 130 | 66 | 402 |
| 29915075BK | SZ1 O/S RAIL IMPACT END | | 66 | 66 | 125 |
| 29913316 | SZ1 O/S CAR LINK PLATE KIT | - | - | - | 88 |
| 29915076 | SZ1 JOINER INSERT HD | - | - | - | 29 |
| 293712320BK | SZ1 O/S RAIL TRACK 2 MTR JOIN X2 | | 2000 | 23 | 518 |
| 293712321BK | SZ1 O/S RAIL TRACK 2 MTR ENDX1 JOIN X1 | | 2000 | 23 | 518 |
| 293712322BK | SZ1 O/S RAIL TRACK 2 MTR END X2 | | 2000 | 23 | 518 |
| 293712330BK | SZ1 O/S RAIL TRACK 3 MTR JOIN X2 | | 3000 | 23 | 1038 |
| 293712331BK | SZ1 O/S RAIL TRACK 3 MTR ENDX1 JOIN X1 | | 3000 | 23 | 1038 |
| 293712332BK | SZ1 0/S RAIL TRACK 3 MTR END X2 | | 3000 | 23 | 1038 |
| 293712340BK | SZ1 O/S RAIL TRACK 4 MTR JOIN X2 | | 4000 | 23 | 2081 |
| 293712341BK | SZ1 O/S RAIL TRACK 4 MTR ENDX1 JOIN X1 | | 4000 | 23 | 2081 |
| 293712342BK | SZ1 O/S RAIL TRACK 4 MTR END X2 | | 4000 | 23 | 2081 |





Certification

CE certified and tested under certification EN 795.



Clutches

Lewmar continues to define rope clutch technology with a variable geometry handle and unique grip pattern of dominos that prevent rope fray. This revolutionary system has been independently tested time and again and has won awards for its innovative framework.

- A Domino Cluster and longer holding pattern holds line under load without fraying the rope
- B Controlled Release Pull back handle combined with patented clutch and release mechanism provides controlled release even at full holding load
- C Handle has a solid link to the domino cluster
- Line Size Clutches capable of holding lines from 6mm (1/4") to 14mm (9/16")





Instead of just jamming the rope...



... Lewmar's

Domino mechanism
flexes it for better
grip and less rope
wear.



DC Rope Clutches



DCI Single



DCI Double



DCI Triple



DC2 Single



DC2 Double



DC2 Triple

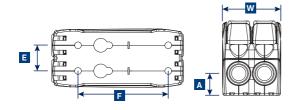
DCI Rope Clutch Specifications

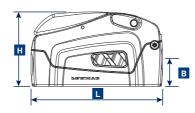
| PART NO | DESCRIPTION | LINE | SIZE | MIN HO | | APP WEI | | w | LL |
|------------|---------------------|-------|----------|--------|------|------------|----|-----|------|
| | | ММ | IN | KG | LB | G | oz | KG | LB |
| 29101108вк | 6-8 MM DC1 SINGLE | | | | | 330 | 12 | 500 | 1100 |
| 29101208ВК | 6-8 MM DC1 DOUBLE | 6-8 | 1/4-5/16 | 300 | 661 | 650 | 23 | 500 | 1100 |
| 29101308ВК | 6-8 MM DC1 TRIPLE | | | | | 850 | 30 | 500 | 1100 |
| 29101110BK | 8-10 MM DC1 SINGLE | | | | | 330 | 12 | 500 | 1100 |
| 29101210BK | 8-10 MM DC1 DOUBLE | 8-10 | 5/16-3/8 | 400 | 880 | 650 | 23 | 500 | 1100 |
| 29101310BK | 8-10 MM DC1 TRIPLE | | | | | 850 | 30 | 500 | 1100 |
| 29101112BK | 10-12 MM DC1 SINGLE | | | | | 330 | 12 | 500 | 1100 |
| 29101212BK | 10-12 MM DC1 DOUBLE | 10-12 | 3/8-7/16 | 500 | 1100 | 650 | 23 | 500 | 1100 |
| 29101312BK | 10-12 MM DC1 TRIPLE | | | | | 850 | 30 | 500 | 1100 |
| 29100010BK | DC1 HANDLE KIT | | | | | | | | |
| 25002323 | CLUTCH LABEL KIT | | | | | | | | |

DC2 Rope Clutch Specifications

| PART NO | DESCRIPTION | LINE SIZE | | MIN HOLDING LOAD | | APPROX WEIGHT | | w | LL |
|------------|--------------------|-----------|----------|---------------------|------|------------------|----|------|------|
| | | ММ | IN | KG | LB | G | oz | KG | LB |
| 29101410BK | 8-10MM DC2 SINGLE | | | | | 650 | 23 | 1200 | 2650 |
| 29102410BK | 8-10MM DC2 DOUBLE | 8-10 | 5/16-3/8 | 500 | 1102 | 1216 | 43 | 1200 | 2650 |
| 29103410BK | 8-10MM DC2 TRIPLE | | | | | | | | |
| 29101412BK | 10-12MM DC2 SINGLE | | | | | 650 | 23 | 1200 | 2650 |
| 29102412BK | 10-12MM DC2 DOUBLE | 10-12 | 3/8-1/2 | 700 | 1550 | 1216 | 43 | 1200 | 2650 |
| 29103412BK | 10-12MM DC2 TRIPLE | | | | | | | | |
| 29101414BK | 12-14MM DC2 SINGLE | | | | | 650 | 23 | 1200 | 2650 |
| 29102414BK | 12-14MM DC2 DOUBLE | 12-14 | 1/2-9/16 | 1000 | 2204 | 1216 | 43 | 1200 | 2650 |
| 29103414BK | 12-14MM DC2 TRIPLE | | | | | | | | |
| 29101501BK | DC2 HANDLE KIT | | | | | | | | |
| 25002323 | CLUTCH LABEL KIT | | | | | | | | |

DCI & DC2 Rope Clutch Dimensions





Votes:

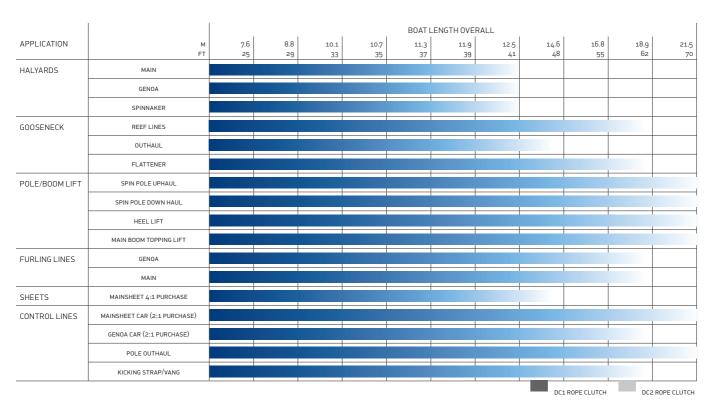
Line entry and exit angle should not exceed 15° from the rope clutch centre line

DCI :Use pan head M6 – I/4" fixings – do not tighten beyond I0 Nm torque

DC2 : Use pan head M8 - 5/16" fixings - do not tighten beyond 22Nm torque

| SIZE | LEN MM | NGTH | WIE MM | | HEI MM | | LINE E | NTRY | LINE MM | | FIXINGS MM | S WIDTH | FIXINGS MM | LENGTH IN |
|-------------------------------|-----------|-------------------------------|---------------------|--|-----------|---------------------------------|--------|-------|------------|--------------------|-------------------|---|---------------|--------------|
| D1 SINGLE D1 DOUBLE D1 TRIPLE | 126 | 5 | 32 57.85 83.7 | 1 ⁵ / ₁₆ 2 ⁵ / ₁₆ 3 ⁵ / ₁₆ | 72 | 2 ¹³ / ₁₆ | 27 | 1 1/8 | 29 | 1 3/16 | - 26 26 | - 1 1 | 79 | 3 1/8 |
| D2 SINGLE D2 DOUBLE D2 TRIPLE | 156 | 6 ¹ / ₈ | 38.0 68.5 99 | 1 ¹ / ₂ 2 ¹ / ₁₆ 3 7/8 | 88 | 3 ³ /8 | 26 | 1 | 32 | 1 ⁵ ⁄16 | - 30.5 30.5 | - 1 ³ / ₁₆ 1 ³ / ₁₆ | 107 | 4 1/4 |

Clutch Selection Guide



Organisers

All organisers have space to pass two lines between each sheave

Flush fixings Synchro Organiser

- Bushed sheaves with side thrust ball bearings
- Wide rope entry



| PART NO | SHEA | AVE Ø | NO OF SHEAVES | | KING LIMIT | | ORKING SHEAVE | MAX LII | NE SIZE | LEN | GTH | WEI | GHT | FIXI (NOT SU | NGS IPPLIED) |
|------------|------|-------|------------------|------|---------------|------|------------------|---------|---------|-----|---------|-----|------|-----------------|-----------------|
| | ММ | IN | | KG | LB | KG | LB | ММ | IN | ММ | IN | G | OZ | мм | IN |
| 29916042ВК | 60 | 2 3/8 | 6 | 3700 | 8156 | 1100 | 2420 | 12 | 1/2 | 256 | 10 1/16 | 602 | 21.2 | M10 | 3/8 |
| 29916060ВК | 60 | 2 3/8 | 3 | 2550 | 5500 | 1100 | 2420 | 12 | 1/2 | 256 | 10 1/16 | 329 | 12.9 | M10 | 3/8 |

40 and 60mm Bushed Sheaves Organiser

- Tough interchangeable acetal or alloy sheaves (40mm only)
- Stackable



| PART NO | SHEA | AVE Ø | NO OF SHEAVES | | KING LIMIT | | ORKING SHEAVE | MAX LII | NE SIZE | LEN | GTH | WEI | GHT | FIXI (NOT IN | NGS LUDED) | SHEAVE | CENTRES |
|------------|------|-------|------------------|------|---------------|------|------------------|---------|---------|-----|--------|-----|-------|-----------------|---------------|--------|---------|
| | ММ | IN | | KG | LB | KG | LB | ММ | IN | ММ | IN | G | oz | ММ | IN | ММ | IN |
| 29139122BK | 40 | 1 1/8 | 2 | 1005 | 2215 | 750 | 1654 | 10 | 3/8 | 142 | 5 5/8 | 123 | 271 | м8 | 5/16 | 47 | 1 1/8 |
| 29139123BK | 40 | 1 1/8 | 3 | 1507 | 3322 | 750 | 1654 | 10 | 3/8 | 189 | 7 3/8 | 206 | 454 | м8 | 5/16 | 47 | 1 1/8 |
| 29139124BK | 40 | 1 1/8 | 4 | 2010 | 4431 | 750 | 1654 | 10 | 3/8 | 236 | 9 1/3 | 275 | 606 | м8 | 5/16 | 47 | 1 1/8 |
| 29139125BK | 40 | 1 1/8 | 5 | 2512 | 5537 | 750 | 1654 | 10 | 3/8 | 283 | 11 1/8 | 352 | 776 | м8 | 5/16 | 47 | 1 1/8 |
| 29139126ВК | 40 | 1 1/8 | 6 | 3015 | 6646 | 750 | 1654 | 10 | 3/8 | 330 | 13 | 425 | 937 | м8 | 5/16 | 47 | 1 1/8 |
| 29139112BK | 60 | 2 3/8 | 2 | 2400 | 5290 | 1200 | 2645 | 14 | 9/16 | 231 | 9 1/8 | 325 | 11.46 | M10 | 3/8 | 72 | 2 27/32 |
| 29139113BK | 60 | 2 3/8 | 3 | 3000 | 6613 | 1200 | 2645 | 14 | 9/16 | 303 | 12 | 435 | 15.34 | M10 | 3/8 | 72 | 2 27/32 |
| 29139114BK | 60 | 2 3/8 | 4 | 3600 | 7935 | 1200 | 2645 | 14 | 9/16 | 375 | 14 3/4 | 551 | 19.43 | M10 | 3/8 | 72 | 2 27/32 |
| 29139115BK | 60 | 2 3/8 | 5 | 4200 | 9258 | 1200 | 2645 | 14 | 9/16 | 447 | 17 5/8 | 637 | 22.46 | M10 | 3/8 | 72 | 2 27/32 |
| 29139116ВК | 60 | 2 3/8 | 6 | 4800 | 10580 | 1200 | 2645 | 14 | 9/16 | 519 | 20 1/2 | 775 | 27.33 | M10 | 3/8 | 72 | 2 27/32 |

Stainless Steel Bushed Sheaves Organiser

To complement our HTX Stainless Steel Block range, Lewmar have developed a stainless steel organiser to complete the installation.

- Same technical specifications as alloy versions, but with additional aesthetic appeal
- Machined from marine-grade stainless steel

Contact your Lewmar representative to find out more information.



Cleats

Made from state-of-the-art materials developed by the automotive industry and refined for the marine market, Lewmar cleats enhance performance in durability, strength and lubrication.

Features

- Low line entry load
- High holding load
- Constant tension springs

- Wash-out bearing slots
- Split base fairlead to facilitate continuous line installations

Cam Cleats

| PART NO | DESCRIPTION | WLL | | LINE SIZE | | FIXING PITCH | | FIXING SIZE | | WEIGHT | |
|------------|------------------------|-----|-----|-----------|-----------|--------------|--------|-------------|------|--------|-----|
| | | KG | LB | ММ | IN | ММ | IN | ММ | IN | G | OZ |
| 29104100BK | SMALL COMPOSITE CLEAT | 120 | 264 | 2-8 | 5/64-5/16 | 27 | 1 1/16 | M4 | 5/32 | 17.5 | 0.6 |
| 29104110BK | MEDIUM COMPOSITE CLEAT | 180 | 396 | 4-12 | 5/32-1/2 | 38 | 1 1/2 | М5 | 3/16 | 48.5 | 1.7 |



Fairlead



| | | | | | | l |
|------------|-----------------|------|-----------|------|-----|---|
| PART NO | DESCRIPTION | LINE | SIZE | WEI | GHT | |
| | | ММ | IN | G | oz | |
| 29104104BK | T0 FIT 29104100 | 2-8 | 5/64-5/16 | 6.0 | 0.2 | |
| 29104114BK | T0 FIT 29104110 | 4-12 | 5/32-1/2 | 14.0 | 0.5 | |

Feeder Loop



| PART NO | DESCRIPTION | LINE | SIZE | WEI | GHT | |
|----------|-------------|------|-----------|------|------|--|
| | | ММ | IN | G | oz | |
| 29104115 | SMALL | 2-8 | 5/64-5/16 | 6.0 | 0.2 | |
| 29104116 | MEDIUM | 4-12 | 5/32-1/2 | 10.0 | 0.35 | |

Eye Strap (Pair)



| PART NO | DESCRIPTION | LINE | SIZE | FIXING | PITCH | FIXIN | S SIZE | WEI | GHT |
|----------|-------------|------|-----------|--------|--------|-------|--------|------|-----|
| | | ММ | IN | ММ | IN | ММ | IN | G | OZ |
| 29104103 | SMALL | 2-8 | 5/64-5/16 | 27 | 1 1/16 | М4 | 5/32 | 6.0 | 0.2 |
| 29104113 | MEDIUM | 4-12 | 5/32-1/2 | 38 | 1 1/2 | м5 | 3/16 | 18.0 | 0.6 |

Bulls-Eyes



| PART NO | DESCRIPTION | MAX LII | NE SIZE | FIXING | PITCH | FIXIN | G SIZE | WEI | GHT |
|----------|-------------|---------|---------|--------|-------|-------|--------|------|-----|
| | | ММ | IN | ММ | IN | ММ | IN | G | oz |
| 29904117 | MEDIUM | 12 | 1/2 | 25 | 1 | М4 | 5/32 | 12.0 | 0.4 |
| 29904118 | LARGE | 18 | 3/4 | 32 | 1 1/4 | М5 | 3/16 | 32.0 | 1.1 |

Swivel Cam Base for 60/80mm Blocks



| PART NO | PART NO WLL | | LINE SIZE | | FIXING PITCH | | FIXIN | G SIZE | WEIGHT | | |
|----------|-------------|-----|-----------|-----------|-----------------|-------|-------|--------|--------|------|--|
| | KG | LB | ММ | IN | ММ | IN | мм | IN | G | oz | |
| 29904126 | 300 | 661 | 4-10 | 5/32-7/16 | 4X19 | 4X3/4 | М5 | 3/16 | 302 | 10.7 | |

Swivel Small Cam with Bull's Eye



| PART NO | | LINE | SIZE | HOLE CI | ENTRES | WEI | GHT |
|----------|--------|------|----------|---------|------------------------------------|-----|-----|
| | | ММ | IN | ММ | IN | G | oz |
| 29904105 | SMALL | 2-6 | 5/64-1/4 | 3 X 27 | 3 X 1 ¹ / ₁₆ | 114 | 4 |
| 29904115 | MEDIUM | 4-10 | 5/32-3/8 | 3 X 27 | 3 X 1 ¹ / ₁₆ | 168 | 5.9 |



9. Steering

The Lewmar Steering Range



Page 357 Steering Systems

- Comprehensive range of steering systems
- steering.
- Cobra Rack and Pinion
- Constellation Open wire and wire-in-conduit Mamba Rotating Torque Tube and Bevelhead



Page 375 Rudder bearing

- Range of rudder bearings complement Lewmar
 Suitable for tiller-steered and Steering Systems
 - wheel-steered yachts
 - Full range of accessories



Page 376 Wheels

- Choice of wheels to suit any application
- 25mm/I" tapered keyed shaft ensures positive fit
- Compatible with all Lewmar Steering Systems
- Full range of accessories available



Page 380 Powerboat Wheels

- Range of Powerboat wheels
- Deep dish design for extra room and comfort
- Pre-assembled with ball-raced Power Grip for ease of use



Page 383 Pedestals

- Range of standard and custom pedestals
- Modern composite construction guards against corrosion
- Custom pedestals available for bespoke specification
- Range of accessories available, including guardrails



Page 387 Instrument Pods

- Choice of instrument pods to suit any electronic configuration
- Pods available as retrofit or complete assembly option



Page 390 Cockpit Accessories

- Range of cockpit tables in different finishes
- Tables and pods designed to complement Lewmar Pedestal Range



Page 391 Autopilot Drives

- Simple installation
- Compatible with main electronic suppliers
- All units feature electromechanical clutch
- Low current draw

Steering Overview

Constellation™ System – Wire steering

ConstellationTM is the main wire steering system available for yachts from around 7m/25ft-18m/60ft. They can be in either single or tandem systems - ideal for aft cockpit installations - and are the most reliable systems on the market. The conduit system overcomes the difficulties that are experienced when using open wire in centre cockpit installations.

Cobra™ System – Rack and Pinion

The Cobra™ system is an industry leader in its field and designed for aft-cockpit yachts. The system uses rack and pinion to ensure the necessary mechanical advantage required for sensitive steering. Lewmar also offers a bespoke Cobra™ system for use on non-aft cockpit yachts.

Mamba™ System – Rotating Torque Tube and Bevelhead

Mamba™ is a suitable system for a diverse range of sail boats, from bluewater cruisers to round-the-world racers. It offers unique features - such as variable mechanical advantage steering - while retaining versatility in the type of installation, such as tandem systems. The Mamba™ system ensures positive steering feedback and strength; inherent benefits in gearbox and bevel head steering systems.

Cassette Steering System

Lewmar's revolutionary cassette steering system is an innovative blend of product experience. Constellation™ wire extends from the pedestal and connects to our proven, marine-grade, ball bearing traveller car and track. Then, using the components of the Mamba™ solid system, it connects the track and car to the rudder blades. The entire system is lightweight with multiple mounting possibilities and responsive feedback when sailing.



9. Steering



Constellation™ Systems

Constellation™ is made up of a complete range of wire steering systems, offering award-winning design and high quality construction, for vessels up to 18m/60ft. The systems have been developed in conjunction with both production boat yards and the world's racing community. All aluminium parts are etched, alochromed and stoved using powder-coated polyester resins.

- Simple installation with minimal components
- · Classic 'tried and tested' chain and wire arrangement
- Open wire arrangements for aft cockpit boats with a wire in conduit option for centre cockpit
- Range of sprocket / quadrant ratios available for different steering speeds and loads
- Autopilot units can be easily incorporated into the system





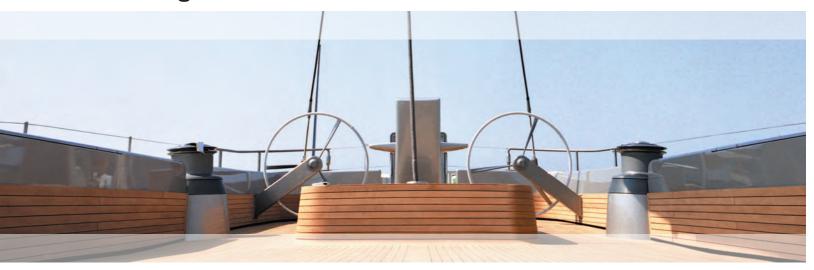
Constellation™ Wire-in-Conduit Systems

Due to their ease of installation, wire-in-conduit systems have largely replaced open wire for centre cockpit yachts. Advances in conduit technology have resulted in Constellation TM systems that are simple to install and easy to maintain. Self-contained sheave assemblies have been developed to fit into the conduit route, eliminating the requirement for reinforced pads.

Lewmar offer a range of components to complete your wire-in-conduit installation, including conduit end fittings, conduit greasers and terminal units to align the cables with the quadrants. Most common conduit installation for centre cockpit yachts up to 12m/40ft.



9. Steering



Constellation™ Systems

Constellation[™] Open Wire Systems

Aft Cockpit Radial Steering Systems

The simplest wire system available for aft cockpit yachts with vertical, or near vertical, rudders using a radial quadrant in conjunction with a cross wire idler, (universal idler if the pedestal is mounted aft of the rudder stock). Dependent on sheave and quadrant sizes, this equipment can be employed on sailing yachts up to approximately 18m /60ft.

Please note the sheaves are fully articulated to obtain perfect lead from sheave to quadrant. The splay angle is dependent on the distance from pedestal centre to rudder stock and the quadrant diameter.

- Steering shaft supported in triple high efficiency ball bearings, ensuring no axial and radial play
- Cross wire idlers, bevelled & adjustable to ensure perfect cable alignment
- High strength Alloy quadrants for maximum reliability and compactness
- Range of terminal units, sheaves, bulkhead steerers, quadrants and accessories
- Efficient installation
- Multiple pedestals sprocket options, dependent on boat size (Contact a Lewmar Dealer)
- Electrostatically applied, polyester coating for maximum protection against
- Integrated autopilot drive kit for mounting drive units

Constellation[™] Chain & Wire Accessories

Breaking Strength

The figures shown in the tables below indicate the minimum breaking load of Lewmar cables and chain. Due to the reduction in strength caused by cable fatigue over time, the load on the cable should never exceed 25% of the breaking strain shown, i.e. Safety Factor = 4.

A 305mm/I2" radius quadrant used in conjunction with 6mm/0.23" wire is suitable for the rudder torque, as in the example calculation shown on the right.

- Precision engineered in non magnetic stainless steel
- 2 off master links for easy connection to the cable
- Custom length chain sets available on request
- Cable supplied in 7 x 19 stainless steel stranded construction
- Cable can be supplied to be finished with eyebolts and thimbles
- Fully assembled with pre-swaged eyebolts available

Torque = Breaking Load x Radius x Safety Factor

Metric Example

 $= 2040 \text{Kg} \times 0.305 \text{m} \times 0.25$

 $= 155 \, \mathrm{mKg}$

Imperial Example

= 4500lb \times 12" radius \times 0.25

= 13500 in.lb

Non-Magnetic Stainless Steel Roller Chain Assemblies

| PART NO. | ANSI SPEC | PITCH INCHES | BREAKING LOAD KG LB | |
|----------|--------------|--------------|---------------------------|------|
| 89100090 | ANSI 50 | 5/8 | 2267 | 5000 |
| 89100093 | ANSI 60 | 3/4 | 3175 | 7000 |

Steering Cable 7 x 19 Stranded Stainless Steel

| PART NO. | CABLE DIAMETER | | BREAKING LOAD | |
|----------|-------------------|-----|------------------|------|
| | MM | IN | KG | LB |
| R19-050 | 5 | 0.1 | 1406 | 3100 |
| 89100078 | 6 | 0.2 | 2040 | 4500 |



Wire and Chain assembly



Constellation™ Quadrant, Sprocket & Chain Kit Specification Table

The following table illustrates the turns at the helm for a range of standard sprocket and quadrant sizes.

Lewmar offer custom quadrants in 6082T6 alloy up to 020 mm (40")

Lewmar also offers custom sprockets with any number of teeth in 15.87mm (5/8") or 19.05mm(3/4") or 25.4mm(1") pitch stainless steel or 6082T6 high strength aluminium.

| PART NO. APPRO | PRIATE CHAIN KIT | QUADRANT TYPE SPROCKET SIZE VS TURNS HO/HO FOR 72° RUDDEF | | | DDER TRAVEL | |
|--|------------------|---|------------|------------|-------------|------------|
| ⁵ / ₈ " P SPROCKET | 3/4" P SPROCKET | | 5⁄8" P 11T | 5⁄8" P 13T | 5⁄8" P 15T | 3/4" P 11T |
| 89100090 | 89100093 | 152MM/6" RADIUS 260° | 1.08 | 0.92 | 0.79 | 0.9 |
| 89100090 | 89100093 | 190MM/7.5" RADIUS 80° | 1.35 | 1.14 | 1.0 | 1.12 |
| 89100090 | 89100093 | 203MM/8" RADIUS 260° | 1.44 | 1.22 | 1.06 | 1.2 |
| 89100090 | 89100093 | 228MM/9" RADIUS 260° | 1.62 | 1.37 | 1.18 | 1.35 |
| 89100090 | 89100093 | 254MM/10" RADIUS 260° | 1.8 | 1.52 | 1.32 | 1.5 |
| 89100090 | 89100093 | 304MM/12" RADIUS 80° | 2.2 | 1.86 | 1.61 | 1.8 |
| 89100090 | 89100093 | 304MM/12" RADIUS 260° | 2.2 | 1.86 | 1.61 | 1.8 |
| 89100091 | 89100094 | 381MM/15" RADIUS 80° | 2.71 | 2.29 | 1.98 | 2.25 |
| 89100091 | 89100094 | 381MM/15" RADIUS 260° | 2.71 | 2.29 | 1.98 | 2.25 |
| 89100091 | 89100094 | 457MM/18" RADIUS 80° | 3.25 | 2.75 | 2.38 | 2.7 |
| 89100091 | 89100094 | 457MM/18" RADIUS 260° | 3.25 | 2.75 | 2.38 | 2.7 |
| 89100092 | 89100095 | 508MM/20" RADIUS 80° | 3.61 | 3.05 | 2.64 | 3 |
| 89100092 | 89100095 | 609мм/24" RADIUS 80° | 4.35 | 3.68 | 3.19 | 3.6 |
| 89100100 | 89100096 | 762MM/30" RADIUS 80° | 5.44 | 4.6 | 4.0 | 4.5 |



Conduit

| PART NO. | DESCRIPTION |
|----------|--------------------------|
| 89100069 | CONDUIT (SOLD PER METER) |
| 89100116 | CONDUIT END FITTING |

Constellation[™] Self Aligning Steerers

The Bulkhead steerer incorporates twin high efficiency ball races, which are double sealed and pre-lubricated for a long and maintenance free life.

- Self Aligning ball to take up misalignment or draft angle when installing within a console.
- Compact installation with a minimum distance of 100mm/4" between bulkhead faces.
- Available with sliding sprocket to aid line up with multiple sheaves.
- Steering shaft supported by high efficiency sealed-for-life bearings.
- Through-shaft mounted friction brake.
- Forward & aft flange housing manufactured in polymer composite material or Stainless Steel.

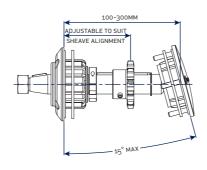
- Incorporates twin high efficiency, double sealed ball races
- Rapid and simple installation
- Stainless steel backing plate for maximum rigidity
- Variety of sprocket sizes
- Custom steering shafts available



Composite Self Aligning Steerer



ONLY STANDARD PART NUMBERS LISTED ABOVE. OTHER VARIATIONS AVAILABLE, CONTACT YOUR LEWMAR REPRESENTATIVE FOR MORE INFORMATION





Stainless Steel Self Aligning Steerer

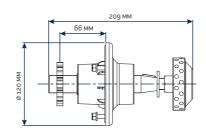
Constellation™ Stainless Steel Bulkhead Steerers

Comes complete with a through shaft friction brake.

- Manufactured in investment cast Stainless Steel
- Steering shaft supported by a pre-lubricated sealed ball race bearing which enables low friction

| PART NO. | DESCRIPTION |
|----------|---|
| 89101173 | BULKHEAD STEERER ANSI 50-10T WITH BRAKE |
| 89101174 | BULKHEAD STEERER ANSI 50-10T NO BRAKE |
| 89101144 | BULKHEAD STEERER ANSI 50-13T WITH BRAKE |
| 89101145 | BULKHEAD STEERER ANSI 50-13T NO BRAKE |

ONLY STANDARD PART NUMBERS LISTED ABOVE. OTHER VARIATIONS AVAILABLE, CONTACT YOUR LEWMAR REPRESENTATIVE FOR MORE INFORMATION





Stainless Steel Bulkhead Steerer - 10 tooth with brake

Constellation[™] Sheave Assemblies

Lewmar offer an extensive range of open-wire sheave assemblies from 102mm (4") to 254mm (10") diameters in different configurations: upright, flat, articulated, idlers and conduit to sheave adaptor.

- Available in bronze, aluminium and A100 glass reinforced nylon.
- High operation efficiency and sensitive steering operation

 sheaves run on 45mm/1.77" caged roller bearings or closed tolerance plain bearings.



 Idlers are designed to prevent chafing when the cable straightens into the sheave track.



Single Articulated
Sheave



Double Upright Sheave Assembly



Double Conduit to Sheave adaptor



Cross Wire Idler

Constellation™ Quadrants

Lewmar offers a range of Alloy 80° and 260° quadrants.

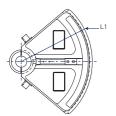
- Fabricated from 6082 aluminium alloy
- Strong yet flexible, almost impossible to fracture under impact loading
- Compact, ideal if transom space is restricted
- Attachment point for linear drives on larger quadrants
- Quadrants with integral stopping surfaces for use against the rudder stop
- Radial versions supplied pre-drilled for optional bolt on stop block
- Generous groove depths and a large guide bend radii, for longevity of the cable.
- 80° quadrants supplied with cable retaining pins to prevent cable jump

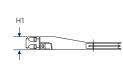


80° Alloy High Strength Quadrants

| OPER | 1 ATING DIUS | MAXIMU SIZ | | BOSS F | |
|------|--------------------|---------------|----|--------|-----|
| ММ | IN | ММ | IN | ММ | IN |
| 190 | 7.5 | 80 | 3 | 60 | 2.4 |
| 228 | 9 | 80 | 3 | 60 | 2.4 |
| 305 | 12 | 80 | 3 | 60 | 2.4 |
| 305 | 12 | 100 | 4 | 60 | 2.4 |
| 381 | 15 | 80 | 3 | 60 | 2.4 |
| 381 | 15 | 100 | 4 | 60 | 2.4 |
| 457 | 18 | 100 | 4 | 60 | 2.4 |
| 457 | 18 | 125 | 5 | 80 | 4.0 |
| 508 | 20 | 125 | 5 | 80 | 4.0 |
| 610 | 24 | 125 | 5 | 80 | 4.0 |

QUADRANTS CAN BE SUPPLIED PILOT BORED OR MACHINED TO SUIT

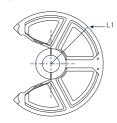




260° Alloy High Strength Quadrants

| OPER. RAD | ATING | MAXIMU SIZ | | H BOSS F | |
|--------------|-------|---------------|----|-------------|-----|
| ММ | IN | ММ | IN | ММ | IN |
| 152 | 6 | 80 | 3 | 60 | 2.3 |
| 203 | 8 | 80 | 3 | 60 | 2.3 |
| 254 | 10 | 80 | 3 | 60 | 2.3 |
| 254 | 10 | 100 | 4 | 60 | 2.3 |
| 305 | 12 | 100 | 4 | 60 | 2.3 |
| 381 | 15 | 125 | 5 | 80 | 4.0 |
| 457 | 18 | 125 | 5 | 80 | 4.0 |

QUADRANTS CAN BE SUPPLIED PILOT BORED OR MACHINED TO SUIT

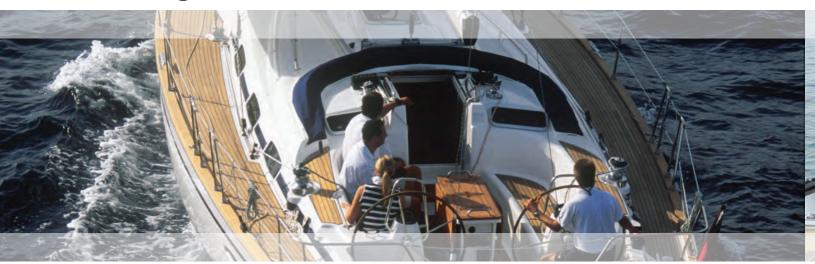




Eye bolt tensioner kits

Eye bolt/cable tensioner are not supplied with quadrants and must be ordered separately

89100196 Eye bolt tensioner kit for 6mm wide cable



Cobra™ Systems

With over 40 years technological development, Cobra™ has become the first choice for boat builders worldwide for aft cockpit vessels. Cobra™ systems are the world leader in terms of performance, reliability and appearance for Rack and Pinion.

- Typically designed for aft cockpit boats with a short distance between the helm and the rudder
- Simple installation providing a direct feel and rudder response
- Adaptable for twin helm / twin rudder solutions
- Compact installation for boats with minimal space available
- Strong and light no parts to fret or chafe
- Minimum maintenance
- Smoother operation
- Greater torque capability
- Full CE Certification available

Principle of Operation

The principle of the Cobra™ steering system is based on the precision gearcut circular rack and pinion in the head of the pedestal providing the necessary mechanical advantage (see wide angle geometry). The quadrant gear is connected to a stainless steel downtube, at the base of which is an output lever. This connects to a similar lever, mounted on the rudder stock, via a fully adjustable draglink.

All shaft work is carried through high-efficiency sealed ball races and the mesh of gears is controlled via shims under the input, eliminating any lost motion. The input socket also houses a powerful and progressive friction brake for dampening the wheel, when at anchor, for example.



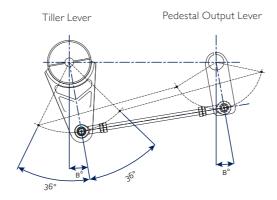


Wide Angle Geometry

The lever geometry for Lewmar transmission systems is based on the principle of Wide Angle Geometry. This results in a very direct steering at midships and a more indirect and powerful steering at full rudder.

Due to this unique feature, the total number of turns of the wheel on a transmission steering system can be reduced by 30-40% compared to a cable system with the same maximum rim loads. This effect is achieved by an unequal length of the output and tiller lever. The output lever has 134mm centres and the tiller lever 203mm. The diagram to the below left shows the mechanical advantage (lever reduction) in relation to the rudder angle. Around amidships the reduction is quite constant, and above 15 degrees rudder the mechanical advantage nearly doubles compared to the amidships advantage.

The consequence of wide angle geometry is the offset angle of the levers in amidships position. This offset angle is necessary to achieve the same travel to port and starboard. The offset angle varies with the distance from the output lever to the tiller lever. Offset angles can be avoided when the complete gearbox is put on an offset distance.



Different gear ratios can be used to suit all applications:

| ТҮРЕ | GEAR RATIO | MECHANICAL ADVTANAGE AT MIDSHIPS | TURNS H0/H0 | MAX RUDDI | ER TORQUE FT.LB | TYPICAL E | BOAT SIZE FT |
|-------------------------------|------------|-------------------------------------|-------------|-----------|--------------------|-----------|-----------------|
| COBRA TM CRUISING | 5:1 | 8:1 | 1.77 | 2943 | 2170 | 13.7 | 45 |
| COBRA TM BASE UNIT | 5:1 | 8:1 | 1.77 | 2943 | 2170 | 13.7 | 45 |
| COBRA TM RACING | 4:1 | 6:1 | 1.4 | 4557 | 3360 | 16.7 | 55 |
| COBRA TM OCEAN | 6.7:1 | 10.2:1 | 2.45 | 4905 | 3617 | 18.3 | 60 |



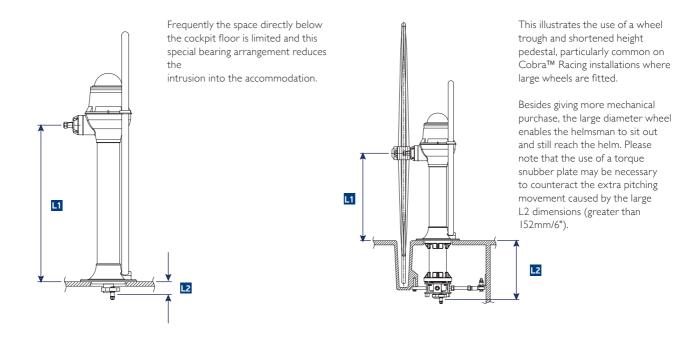
Cobra™ Systems

Cobra[™] Installation Guidelines

- Standard pedestal height
- LI = 710 mm/28". Range from 178 mm/7" to 915 mm/36".
- Standard under deck dimension
- L2 = 102mm/4". The minimum dimension is governed only by the thickness of the cockpit sole. Where an extended L2 under deck is required, it may be necessary to also add a torque snubber plate.
- 13 The distance between the centre of pedestal and the rudder stock.

L3 can vary between 120 mm / 5" - 2000 mm / 79". Draglinks are made to specification and are adjustable by 20 mm / 0.78" upon installation. The draglink should not exceed an angle of 5° from the horizontal.

A standard Cobra™ installation can accommodate a rudder rake up to a maximum of 30°. However this does depend on the boat size and type and the length of L3. If the angle exceeds 20°, please consult our Lewmar representative. As standard, all levers are mounted to the starboard side and the pedestal is mounted forward of the rudder stock.





Cobra[™] Racing

4:1 gear ratio provides the ultimate in feel and responsiveness.

- Incorporates reinforced components to handle the higher torque demands of a large wheel installation
- More direct gear ratio offering 1.5 turns lock to lock
- Can be reduced to less than I turn when required
- Larger diameter pinion for greater strength and more direct steering
- Light, strong pedestal shell incorporating 101mm/4" diameter tube
- Optimised gear quadrant in super nickel aluminium bronze.





Cobra[™] Ocean

6.7:1 Gear ratio for Blue Water yachts, with smaller wheels requiring a greater number of turns lock to lock.

- For yachts up to 18m/60'
- Suitable for maximum rudder torque of 4905Nm/3618 lb ft
- · Additional space for a larger gear set
- 2.4 turns lock to lock
- Larger bearings and a 60mm/2.3" stainless steel down shaft
- Royale and Ranger pedestals specific to the Cobra™
 Ocean system



Cobra™ Systems

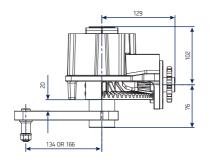
Cobra[™] System – Customised for installations

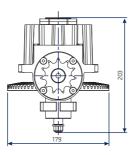
A CobraTM system can be customised for twin rudder installations, bridge deck consoles, transom-mount rudders and centre-cockpit vessels. CobraTM offers a simple steering solution for this layout that ensure the rudders remain in phase and Ackerman effect can be achieved.

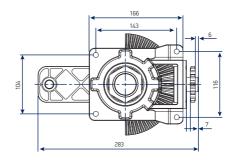
- One-piece power input assembly, easy maintenance and gear adjustment
- High-efficiency double sealed deep groove ball bearings
- Powerful and progressive, front mount friction brake
- One-piece heavy duty stainless steel down tube
- Computer optimised gear quadrant design
- Gear quadrant secured via twin 10mm/0.39" stake pins with double shear
- High-strength stainless steel output level welded to down shaft
- Stainless steel rose jointed draglink

Rack & Pinion Base unit

- Remote mountable rack & pinion gearbox
- Suitable for yacht up to 13.7m / 45'
- Direct gear ratio provides 1.77 turns lock to lock with 181 chain drive
- CE certified







Cobra[™] Spares and Accessories

Stop Rings

Limiting the amount of rudder travel is essential on all steering arrangements. The Cobra TM system provides an alternative and simpler to install device than conventional rudder stops – the stop ring.

| The stop ring, mounted directly below the pedestal, ensures that the output |
|---|
| lever travel does not exceed the designed limit. Stops should operate adjacent to |
| operating centres. |

Note: Additional rudder stop can be fitted to tiller lever if a stop ring cannot be installed.

| PART NO. | DESCRIPTION |
|--------------|-----------------|
| 89000006-*** | STOP RING COBRA |

^{*}Customer must specify limiter angle

Rod Ends

| PART NO. | DESCRIPTION |
|----------|--------------------------------|
| 82000356 | ROD END AHFT10 STAINLESS STEEL |
| 82000357 | ROD END AHFT12 STAINLESS STEEL |

Rods ends can be purchased separate from draglink assemblies as spare parts.



Draglinks

| PART NO. | DESCRIPTION | LENGTH ONE | E END LOOSE | SYSTEM TYPE |
|----------|-----------------------------|------------|-------------|------------------|
| | | ММ | IN | |
| 89500011 | DRAGLINK ASSEMBLIES AHFT 10 | 1000 | 40 | CRUISING |
| 89500012 | DRAGLINK ASSEMBLIES AHFT 10 | 2000 | 80 | CRUISING |
| 89500013 | DRAGLINK ASSEMBLIES AHFT 12 | 1000 | 40 | RACING AND OCEAN |
| 89500014 | DRAGLINK ASSEMBLIES AHFT 12 | 2000 | 80 | RACING AND OCEAN |

The draglinks specified above are supplied with one end fitting loose to enable the tube to be cut to size and welded. If the correct centres for the draglink are known contact your Lewmar dealer prior to order for the part number relating to the centre required.



Draglink complete with rod end

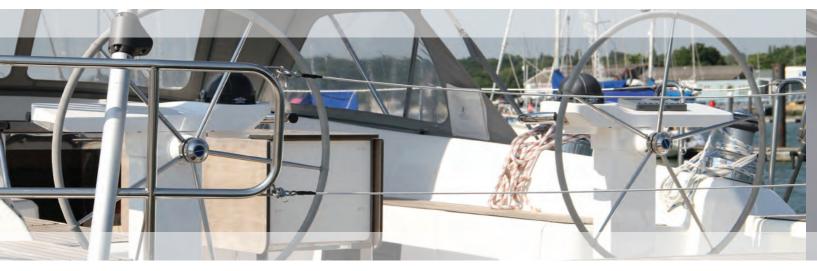
Tiller Levers

Lewmar also offers extended versions to enable the fitting of linear drive type autopilots at 250mm/10" and 350mm/13" centres, in conjunction with the standard 203mm/8" position for the steering draglink.

| PART NO. | CAN BE MACHIN SIZI | | DESCRIPTION |
|----------|-----------------------|----|--------------|
| | ММ | IN | |
| 89500002 | 80 | 3 | TILLER LEVER |
| 89500005 | 100 | 4 | TILLER LEVER |
| 89500008 | 125 | 5 | TILLER LEVER |

All above part numbers are for standard tiller levers supplied pilot bored at 25mm. Lewmar offer a machining service to supply the tiller lever ready to suit the rudder stock of the boat, please contact your Lewmar distributor for part number and price prior to ordering.

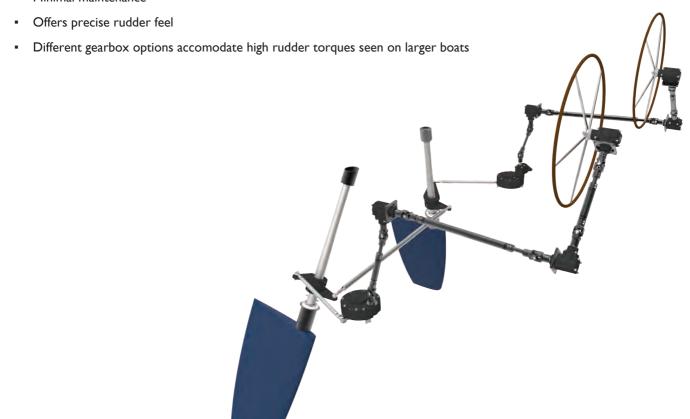




Mamba[™] Systems

The Mamba™ system provides the ultimate in marine steering, in terms of precision, feedback and strength. Mamba™ systems are chosen for a diverse range of sail and power craft such as bluewater cruising yachts, pilot vessels, and sail training vessels.

- Uses rotating torque tubes and bevel gears to transmit the helmsman's input
- Reduction gearboxes can be incorporated in the system to reduce the load felt on the wheel
- Allows twin wheels and multiple rudder applications
- Favoured for its direct feel with almost zero backlash
- Autopilots can be coupled directly into the system giving added flexibility of setup
- Minimal maintenance





Principle of Operation

Mamba™ steering is a rotating torque tube and bevelhead system, transmitting the helmsman's input to a high efficiency reduction gearbox, mounted adjacent to the rudder stock. A tiller lever is fitted to the rudder stock and is driven by a similar lever integral to the gearbox, via a fully articulating jointed draglink.

Two or three station systems, catamarans and tandem wheel steering systems are regularly supplied. The integration of autopilot drives and remote controlled disengagement units is simply achieved.

The Mamba™ range of steering systems is offered in two sizes, BHI0 and BHI30, which are coupled with 12 models of reduction gearbox, providing equipment to suit all craft from 10.6m/35ft to 61m/200ft. In most cases, either high efficiency spur, or reduction gearboxes are chosen, offering between 1.0 and 2.6 turns lock to lock. Each option also provides a high reverse efficiency, transmitting rudder feel to the helmsman.

To simplify installations, Mamba™ equipment offers the following examples of versatility:

 Bevelheads can be supplied with 2, 3 or 4 steering shafts, permitting integration for secondary steering stations, tandem wheel arrangements and direct coupled autopilot drives.

- A choice of mounting plates and brackets for bevel and gearboxes.
- Availability of step ratio gears to adjust overall steering ratio.

The lever geometry for Lewmar transmission systems is based on the principle of Wide Angle Geometry.



Mamba[™] - Bevelheads

BH₁₀

Lewmar BH10 torque tubes are made of marine grade stainless steel depending on the specific installation requirements. Torque tubes are supplied in standard lengths with one end loose for welding by the installer. Or we offer fully welded torque tubes to pre-specified lengths.



BHI30 - For boats 60ft and above

Lewmar BHI30 torque tubes are made of marine grade stainless steel. Depending on the specific installation requirements, torque tubes are supplied in standard lengths with one end loose for welding by the installer. Or we offer fully welded torque tubes to pre-specified lengths.



Additional information

- I Steering shafts can be made to customer's preferred length
- 2 Bevelheads are available with either rotation
- 3 Standard bevelheads have 1:1 ratio, but other ratios are available as detailed in specification
- 4 Mounting plate (or bracket) can be fitted to all faces to facilitate ease of mounting
- 5 All bevelheads can be configured to accept the Lewmar direct fit autopilot mount
- 6 For detailed dimensions contact a Lewmar representative
- 7 Due to the custom nature of this product, contact Lewmar for part number

Universal Joints

Must be fitted at both ends of a torque tube. Where a self aligning bearing is used, one universal joint connects both torque tubes, as shown in illustrations. Self aligning bearings work up to an angle of 15°. AMK10 universal joints have a maximum permissible working angle of 25°. Where practical, the angle at each joint should be balanced.

The WUJ6 universal joint is suitable for use with large gearboxes 18, 20 and 45, see p191.

It has a maximum permissible working angle of 25°. Where practical, the angle at each joint should be balanced.



Mamba Universal Joint and self aligning bearing

Mamba[™] - BG Reduction Gearboxes

The BG Series of high efficiency reduction gearboxes employ bevel gears manufactured from either high alloy steel or nickel bronze alloy running in precision roller bearings. Gear casings are manufactured from marine grade aluminium and shaft work is stainless steel or nickel bronze alloy. All gearboxes are grease filled and shimmed for zero backlash.

| IECHANICAL ARBOX TYPE | | ADVANTAGE AT MIDSHIPS | TURNS H0 T0 H0 | MAXI RUDDER NM | MUM TORQUE FT.LBS | TYP BOAT F | |
|--------------------------|-------|--------------------------|-------------------|----------------------|-------------------------|---------------|----------|
| BG12 | 5:1 | 8:1 | 1.8 | 2943 | 2170 | UP TO 14 | UP TO 45 |
| BG12/2 | 5:1 | 8:1 | 1.8 | 2943 | 2170 | UP TO 14 | UP TO 45 |
| BG30 | 6.7:1 | 10.2:1 | 2.4 | 4905 | 3617 | 14-18 | 45'-60' |



89200034 Gearbox (BG12)

Additional information

- I Mechanical advantage and turns lock to lock are based on standard lever geometry
- 2 Reduction gearboxes can be mounted anywhere within the general proximity of the rudder stock 0.2m/7" to 2m/6.5'
- 3 For detailed dimensions contact your Lewmar representative

Mamba[™] - WRG Reduction Gearboxes

The WRG series of high-efficiency gearboxes employs precision cut, stub tooth form, spur gears running in deep groove ball and roller bearings. Gear casings are manufactured from marine grade aluminium, and shaft work is in stainless steel or nickel bronze alloy. All gearboxes are CNC machined and grease filled to ensure a perfect fit and maintenance-free life.



89200041 Gearbox (WRG12)



89200046 Gearbox (WRG18)

Additional information

- I Mechanical advantage and turns lock to lock are based on standard lever geometry
- 2 Overall mechanical advantage and turns lock to lock can be altered via stepped ratio bevels in bevelheads within the system or by non-standard lever centers.
- 3 Reduction gearboxes can be mounted anywhere within the general proximity of the rudder stock (0.2m/7" to 2m/6.5') For more details please refer to the installation and maintenance handbook.
- 4 Bevelheads can be directly integrated to all WRG series gearboxes
- 5 For detailed dimensions contact your Lewmar representative.

| MECHANICAL GEARBOX TYPE | GEAR RATIO | ADVANTAGE AT MID- SHIPS | TURNS H0 T0 H0 | RUDDER | IMUM TORQUE | TYP BOAT F | RANGE |
|-------------------------|---------------|----------------------------|-------------------|--------|----------------|---------------|---------|
| | | | | NM | FT.LBS | М | FT |
| WRG11 | 5:1 | 8:1 | 1.8 | 2943 | 2170 | 11.5-14 | 38-45 |
| WRG12 | 7:1 | 10.8:1 | 2.4.8 | 5150 | 3798 | 13-20 | 45-65 |
| WRG18 | 10:1 | 15.2:1 | 3.5 | 10800 | 7965 | 18-27 | 60-90 |
| WRG20 | 12.6:1 | 19.1:1 | 4.4 | 13700 | 10104 | 24-33.5 | 80-110 |
| WRG45 | 13:1 | 20:1 | 4.6 | 24000 | 17701 | 20-46 | 90-120 |
| WRG60 | 24.7:1 | 37.5:1 | 8.6 | 36250 | 26740 | 33-45 | 110-150 |
| WRG90 | 65:1 | 96:1 | 21.6 | 53000 | 39090 | 36.5-61 | 120-200 |

Mamba[™] - Bevelhead Integration

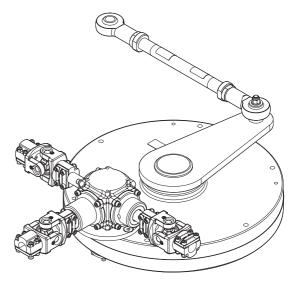
Integration – WRG series of spur reduction gearboxes can be supplied with an integral bevelhead fitted to the input shaft as per illustrations below. The bevelhead can be mounted to either side of the reduction gearbox and rotated at any angle. Custom arrangements are available with greater stand offs between the gearbox and bevelhead.

Pedestal Gearbox Integration

 $Mamba^{TM}$ pedestal – BG WRG Integration – For larger aft cockpit yachts, the WRG and BG series gearboxes can be directly mounted to the pedestal.

On the WRG12 gearbox and above - a torque adapter plate is provided to transmit the force directly to the underside of the cockpit floor.

For raked rudders (25° and above), it is normal to use the BG series of gearbox.



Gearbox WRG type showing directional movement of outer lever and torque tubes



Cassette Steering System

Light in weight and low maintenance, Lewmar's revolutionary cassette steering system is an innovative blend of our broad product experience. Constellation™ wire extends from the pedestal and connects to our proven, marine-grade, ball bearing traveller car and track. Using the components of the Mamba™ solid system, the track and car are connected to the rudder blades. The entire system is lightweight with multiple mounting possibilities and responsive feedback when sailing.

- Multi-directional track configuration
- Wire from pedestal to car, torque tube to tiller lever
- Space saving due to mounting
- Lightweight and robust technology developed specifically for sailors
- Incredibly low friction using marine-proven ball bearing equipment
- Designed for use with tandem systems

Used in the Dufour 310 and Hallberg Rassy 340, this system provides a new steering solution that combines the reliability and response of the Mamba™ system with the high-specification technology of Lewmar hardware.

Contact your Lewmar representative for more information.



Rudder Bearing Solutions

Lewmar's rudder bearings come in two basic type – plain roller and self-aligning roller. We can provide a rudder bearing solution for any yacht, whether it is tiller steer or a Grand Prix racer.

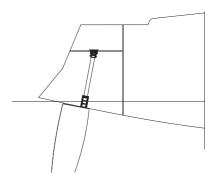
Typical Bearing Installation

A. Lower bearings should be positioned so that the seals are above the water line. A gaitor may also be used for added security against leaks.

B. Upper and Lower bearings should be spaced apart as far as practically possible to reduce loading on the rollers.

C. A removable deck cover may be used for quick fitting of an emergency tiller.

D. For tiller steered yachts seals may be incorporated into the upper bearing to prevent water ingress from above deck into the boat.



Upper Bearings

- Manufactured in 6082 aluminium and anodised
- Suit rudder stock diameters 50-109mm (2-4 5/16 in)
- Easy to install flanged housing

- Model with a deck cover offers integral locking ring and vertical thrust race
- No grease or maintenance required

Plain roller bearings

Features precision Delrin rollers with low friction co-efficient.

Illustration shows a plain roller bearing with deck cover and thrust race.



Self-aligning roller bearings

Bearings includes self-aligning ball and precision Delrin rollers.



Lower Bearings

• Suit rudder shock diameters 50mm-109mm (2-4 5/16 in)

Aluminium roller bearings

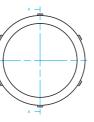
- Manufactured in 6082 aluminium and anodised
- Accepts sealing system for lip seals or rudder tube and gaitor
- · Low friction co-efficient
- Available in self-aligning version

• No grease or maintenance required



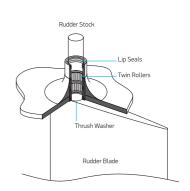
Locking Rings

- Used with upper bearings without integral locking ring
- Manufactured in 6082 aluminium and anodised
- Suit rudder stock diameters 40mm-II0mm (1 ½" 4 5/16")
- Stainless set screws secure locking ring to rudder stock



Lip Seals

- Precision fit seals provide protection against water ingress with minimal friction
- Can be used in conjunction with a gaitor for added protection
- Sizes available to suit any rudder stock diameter
- Manufactured in tough polyurethane material





Wheels

- Choice of wheels to suit any application
- 25mm/I" tapered keyed shaft ensures positive fit
- Compatible with all Lewmar Steering Systems
- Full range of accessories available

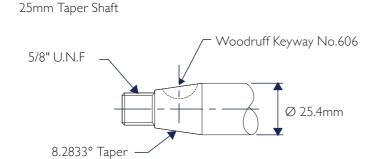


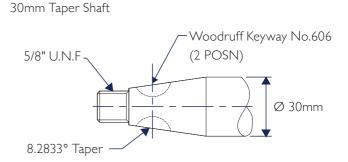
Wheel Selection Guide

| | | | | | WHEEL DI | AMETER | | | |
|------------------|----------|----|----------|-----|----------|--------|-----------|-----------|-----|
| CM IN | 66 26 | 81 | 97 38 | 112 | 127 | 142 | 157 62 | 173 68 | 188 |
| FOLDING WHEEL | 20 | 32 | 30 | 44 | 50 | 56 | 02 | 00 | 74 |
| COMMODORE FLAT | | | | | | | | | |
| COMMODORE DISHED | | | | | | | | | |
| MINI MAXI | | | | | | | | | |
| CARBON | | | | | | | | | |
| FASTNET | | | | | | | | | |

The Lewmar Steering Wheel Shaft

All Lewmar wheels listed in this catalogue have the 25mm/l" taper shaft. Angle of taper ensures the wheel is positively fit and easily removable. Larger wheels (1.6m and up) can also be supplied with the 30mm/l 3/16" taper shaft. The folding wheel dual-hub also fits a 25mm/l" parallel shaft.





Folding Wheel

Reclaim space in your cockpit with Lewmar's patented Folding Wheel.

The Folding Wheel has a two-turn, buttress-threaded, split-spoke design, and a unique hinging system with fast-action handgrip release. This allows you to easily fold and unfold the wheel, using a simple twist of the composite handgrip. At a fraction of the cost of custom versions, the Folding Wheel is appealing to both production boat builders and owners looking to improve their deck layouts.



| PART NO. | DESCRIPTION | SIZ | ZE | FITS SHAFT | FOLDE | WIDTH |
|----------|--|------|----|------------------------|-------|-------|
| | | ММ | IN | | ММ | IN |
| 89700375 | FOLDING WHEEL WITH HIDE COVER | 813 | 32 | 1" TAPER | 487 | 19 |
| 89700376 | FOLDING WHEEL WITH HIDE COVER | 914 | 36 | 1" TAPER | 547 | 21.5 |
| 89700377 | FOLDING WHEEL WITH HIDE COVER | 1016 | 40 | 1" TAPER | 605 | 24 |
| 89700520 | FOLDING WHEEL WITH HIDE COVER | 1066 | 42 | 1" TAPER | 634 | 25 |
| 89700406 | FOLDING WHEEL WITH HIDE COVER (DUAL HUB) | 813 | 32 | 1" TAPER ® 1" PARALLEL | 487 | 19 |
| 89700407 | FOLDING WHEEL WITH HIDE COVER (DUAL HUB) | 914 | 36 | 1" TAPER ® 1" PARALLEL | 547 | 21.5 |
| 89700408 | FOLDING WHEEL WITH HIDE COVER (DUAL HUB) | 1016 | 40 | 1" TAPER ® 1" PARALLEL | 605 | 24 |
| 89700521 | FOLDING WHEEL WITH HIDE COVER (DUAL HUB) | 1066 | 42 | 1" TAPER ® 1" PARALLEL | 634 | 25 |

The Commodore™ Wheel

Durable and elegantly styled, the Commodore is a standard choice for yachtsmen the world over.

Choose from sizes ranging in diameter from 66cm (26") to 122cm (48").



| PART NO. | DESCRIPTION | SI | ZE |
|----------|--------------------------------|------|----|
| | | мм | IN |
| 89700264 | FLAT 5 SPOKE WITH HIDE COVER | 660 | 26 |
| 89700265 | FLAT 5 SPOKE WITH HIDE COVER | 710 | 28 |
| 89700266 | FLAT 5 SPOKE WITH HIDE COVER | 760 | 30 |
| 89700267 | FLAT 5 SPOKE WITH HIDE COVER | 810 | 32 |
| 89700268 | FLAT 5 SPOKE WITH HIDE COVER | 910 | 36 |
| 89700297 | DISHED 5 SPOKE WITH HIDE COVER | 660 | 26 |
| 89700298 | DISHED 5 SPOKE WITH HIDE COVER | 710 | 28 |
| 89700299 | DISHED 5 SPOKE WITH HIDE COVER | 760 | 30 |
| 89700300 | DISHED 5 SPOKE WITH HIDE COVER | 810 | 32 |
| 89700301 | DISHED 5 SPOKE WITH HIDE COVER | 910 | 36 |
| 89700593 | DISHED 5 SPOKE WITH HIDE COVER | 1020 | 40 |
| 89700024 | FLAT 8 SPOKE WITH HIDE COVER | 1070 | 42 |
| 89700025 | FLAT 8 SPOKE WITH HIDE COVER | 1220 | 48 |
| 89700063 | DISHED 8 SPOKE WITH HIDE COVER | 1070 | 42 |
| 89700064 | DISHED 8 SPOKE WITH HIDE COVER | 1220 | 48 |

The Mini Maxi™ Wheel

| PART NO. | DESCRIPTION | SI | ZE |
|----------|----------------------------------|------|----|
| | | мм | IN |
| 89700092 | MINI MAXI TM 10 SPOKE | 910 | 36 |
| 89700093 | MINI MAXI TM 10 SPOKE | 1020 | 40 |
| 89700094 | MINI MAXI TM 10 SPOKE | 1070 | 42 |
| 89700095 | MINI MAXI TM 10 SPOKE | 1220 | 48 |
| 89700096 | MINI MAXI TM 10 SP0KE | 1320 | 52 |
| 89700097 | MINI MAXI TM 10 SPOKE | 1370 | 54 |
| 89700098 | MINI MAXI TM 10 SP0KE | 1520 | 60 |
| 89700063 | 8 SPOKE DISHED, POLISHED | 1070 | 42 |
| 89700064 | 8 SPOKE DISHED, POLISHED | 1220 | 48 |

The Mini Maxi™ wheel is designed for use where a larger wheel is required or for exceptional rigidity.

- Available up to 1524 mm/ 60" diameter
- Supplied with hide cover and spats





Custom Wheels

Y-Spoke Carbon Wheel

Lewmar manufactures a range of custom wheels. The Y-Spoke Carbon Wheel combines ultimate weight saving with sleek and slender styling.

Ideal for Grand Prix race yachts or as a solution to increasing demand for race technology on cruising yachts. These wheels are built and supplied to order in a variety of sizes ranging from Im/39" to I.8m/71".



Fastnet Wheel

The lightweight and stylish Fastnet Wheel is made from Aluminium 6082. The wheels are supplied powder-coat painted, or with leather stitched to the wheel rim in a range of colours.

The Fastnet wheel range starts at 1.22m/48" with incremental sizes up to 1.75m/69".



Other Custom Wheels

Lewmar designs custom wheels to fit a pedestal specific to the customer's requirement.

3D modelling is used to ensure that the wheel fits first time, even in tight spaces.



Custom carbon wheels



Custom dished wheel designed to mount on the back face of the customer's own pedestal for which they have a registered trademark.

Wheel Accessories

Multi-Tooth Wheel Disengagement Units

This is a quick, safe and efficient way to disengage the steering wheel whilst still allowing the system to operate. This is particularly useful when using a dual wheel system or operating the steering by Autopilot. The unit incorporates precision multi tooth gears to ensure zero backlash or play.

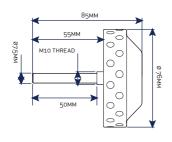
Note: This product cannot be retrofitted to an existing wheel and must be requested when ordering a new wheel. This multi-tooth disengagement unit can be added to any style newly built Lewmar wheel. For prices and part numbers of wheels incorporating this product please speak to a Lewmar representative.

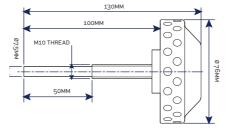


Brake Spinner

A brake spinner is used to lock the wheel and rudder when in port or at anchor.

- Lewmar uses a powerful and progressive through shaft friction brake
- Specific to the type of wheel used







Ref: 8910 0143

Ref: 89100144

| PART NO. | FINISH | FOLDING/COMMODORE WHEEL | MINI MAXI WHEEL | CARBON |
|----------|-----------------|-------------------------|-----------------|--------|
| 89100143 | STAINLESS STEEL | ✓ | | |
| 89800053 | WHITE COMPOSITE | ✓ | | |
| 89100144 | STAINLESS STEEL | | ✓ | |
| 89800123 | STAINLESS STEEL | | | ✓ |

Rail Mount Wheel Holder

The Rail Mount Wheel Holder can be used on most boat rails to store the wheel when not in use, thus providing a clear area in the cockpit.

- Manufactured in 316 investment cast Stainless Steel
- Designed to suit 25mm/I" taper or Parallel steering wheel shaft
- Will fit 25mm/1", 28.6mm /1 1/8" & 32mm/11/4" diameter rails



89400327

Rail Mount Wheel Holder

Quick Release Bi-square Wheel Nuts

The quick release wheel nut – with a standard winch handle bi-square. As you always have a winch handle on hand, this is a quick and simple way to remove your wheel. The quick release wheel nut is available in 316 grade stainless steel, to mirror polish finish.

| PART NO. | TO SUIT WHEEL TYPE |
|----------|--|
| 89700161 | COMMODORE TM WHEEL |
| 89700162 | MINI MAXI TM FASTNET/CARBON |





Powerboat Wheels

The range features 3-spoke design, constructed in 316 stainless steel for the welded and cast wheels or carbon fibre. Cast and carbon rims are enhanced with integrated moulded rubber grips for comfort and positive tactile control. Each wheel is also supplied with a pre-installed ball-raced Power Grip.



SWR Range - Stainless steel welded rim

Key features

- Polished oval shaped tubular rim with formed rear face grip
- Cast spokes with integrated hub
- 316 stainless steel construction for durability
- Deep dish design for extra room and comfort
- Non-magnetic
- Pre-assembled with ball-raced Power Grip for ease of use

Specifications

- Rim material: 316 Stainless Steel
- Spokes:Three
- Rim diameters: 13.5" (340mm) and 15.5" (390mm)
- Hole diameter: ¾"Taper
- Dish: 19 degrees (13.5") and 17 degrees (15.5")



SCR Range - Stainless steel cast rim

Key Features

- Polished oval shaped rim
- Rear face EVA moulded insert grips
- 316 stainless steel cast construction for durability
- Deep dish design for extra room and comfort
- Non-magnetic
- Pre-assembled with ball-raced Power Grip for ease of use

Specifications

- Rim material: 316 Stainless Steel
- Spokes:Three
- Rim diameters: 13.5" (340mm) and 15.5" (390mm)
- Hole diameter: ¾"Taper
- Dish: 22 degrees (13.5") 19 degrees (15.5")
- Finish: Polished Stainless, Satin Silver or Black





CFR Range - Carbon Fibre rim

Key Features

- High-strength and low weight Carbon fibre construction
- High-gloss UV-resistant lacquered finish
- Rear face EVA moulded insert grips
- Deep dish design for extra room and comfort
- Non-magnetic
- Centre hub insert machined from solid billet 316 stainless steel
- Pre-assembled with ball-raced Power Grip for ease of use

Specifications

- Rim material: Carbon Fibre
- Spokes:Three
- Rim diameters: 13.5" (340mm)
- Hole diameter: ¾"Taper
- Dish: 22 degrees (13.5")



Power Grip

Introducing the new Power Grip from Lewmar: a power boat wheel handle with a Rolex-style lid which can be fitted onto the wheel for further precision and more tactile mooring. They can be either bolted or clamped onto the wheel with two clamping points by an allen wrench, included in the Power Grip kit.

- Fitted with two clamps or bolted
- Rolex style lid
- Allen wrench included
- Twin ball bearing race

| PART NO. | DESCRIPTION |
|----------|----------------|
| 89700862 | POWER GRIP KIT |





Powerboat Wheels

SWR Welded St/St Wheel 13.5"/15.5"

| PART NUMBER | DESCRIPTION |
|-------------|--------------------------------|
| 89700871 | PG WHEEL 13.5" WELDED NUT 5/18 |
| 89700821 | PG WHEEL 13.5" WELDED NUT 1/2 |
| 89700822 | PG WHEEL 13.5" WELDED NUT M12 |
| 89700823 | PG WHEEL 15.5" WELDED NUT 5/18 |
| 89700824 | PG WHEEL 15.5" WELDED NUT 1/2 |
| 89700825 | PG WHEEL 15.5" WELDED NUT M12 |

CFR Carbon Wheel 13.5"

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------|
| 89700924 | PG WHEEL CARBON + NUT 5/8 |
| 89700864 | PG WHEEL CARBON + NUT 1/2 |
| 89700865 | PG CARBON WHEEL + NUT M12 |

Service / Spares Kits

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 89400470 | PG 5/8" UNC NUT ® WASHER KIT |
| 89400471 | PG 1/2" UNC NUT ® WASHER KIT |
| 89400479 | PG M12 NUT ® WASHER KIT |
| 89400472 | PG BALL BEARING SERVICE KIT |
| 89400473 | PG REPLACEMENT LID KIT |
| 89400475 | PG WHEEL 13.5" RUBBER REPLACEMENT (X3) |
| 89400476 | PG WHEEL 15.5" RUBBER REPLACEMENT (X3) |

SCR-3 Cast St/St 3-Spoke Wheel 13.5"/15.5"

| PART NUMBER | DESCRIPTION |
|-------------|---|
| 89700827 | PG WHEEL 13.5" ST/ST 3-SPOKE NUT 5/18 |
| 89700828 | PG WHEEL 13.5" ST/ST 3-SPOKE NUT 1/2 |
| 897000925 | PG WHEEL 13.5" ST/ST 3-SPOKE NUT M12 |
| 89700909 | PG WHEEL 13.5" ST/ST 3-SPOKE SATIN NUT 5/18 |
| 89700910 | PG WHEEL 13.5" ST/ST 3-SPOKE SATIN NUT 1/2 |
| 89700911 | PG WHEEL 13.5" ST/ST 3-SPOKE SATIN NUT M12 |
| 89700913 | PG WHEEL 13.5" ST/ST 3-SPOKE BLACK NUT 5/18 |
| 89700914 | PG WHEEL 13.5" ST/ST 3-SPOKE BLACK NUT 1/2 |
| 89700915 | PG WHEEL 13.5" ST/ST 3-SPOKE BLACK NUT M12 |
| 89700830 | PG WHEEL 15.5" ST/ST 3-SPOKE NUT 5/18 |
| 89700831 | PG WHEEL 15.5" ST/ST 3-SPOKE NUT 1/2 |
| 89700926 | PG WHEEL 15.5" ST/ST 3-SPOKE NUT M12 |
| 89700917 | PG WHEEL 15.5" ST/ST 3-SPOKE SATIN NUT 5/18 |
| 89700918 | PG WHEEL 15.5" ST/ST 3-SPOKE SATIN NUT 1/2 |
| 89700919 | PG WHEEL 15.5" ST/ST 3-SPOKE SATIN NUT M12 |
| 89700921 | PG WHEEL 15.5" ST/ST 3-SPOKE BLACK NUT 5/18 |
| 89700922 | PG WHEEL 15.5" ST/ST 3-SPOKE BLACK NUT 1/2 |
| 89700923 | PG WHEEL 15.5" ST/ST 3-SPOKE BLACK NUT M12 |





Pedestals

Lewmar pedestals are manufactured from high-strength alloy or extrusion. The head design uses modern composites which guard against electrolytic action and the corrosive nature of salt water. Lewmar pedestals are a standard height, but custom pedestal heights are available upon request.

- All Lewmar pedestals are available in Constellation[™], Cobra[™] and Mamba[™] steering systems.
- Guardrails are not included.
- Lewmar offers a comprehensive range of pedestal accessories and options from guardrails and engine control to compasses, cockpit tables and instrument pods.

Pedestal Selection Guide

| | | | AFT COCKPIT | | | CENTRE | COCKPIT | TILLER-WHEE | _COVERSIONS |
|--------------------|---------------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------------|-------------------------------|---------------|---------------|
| PEDESTAL | FOR BOATS UP TO 60FT CONSTELLATION | FOR BOATS UP TO 60FT COBRA | FOR BOATS UP TO GOFT COBRA | FOR BOATS UP TO GOFT COBRA | FOR BOATS UP TO 200FT MAMBA | FOR BOATS UP TO 80FT CONSTELLATION | FOR BOATS UP TO 80FT MAMBA | CONSTELLATION | MAMBA |
| ENGUARD | • | • | | • | • | • | • | | • |
| INTEGRA | | • | | • | • | • | • | • | • |
| ROYALE | | • | • | | • | • | | | |
| MAXIMUM WHEEL SIZE | 2 M (78 IN) | 1.2 M (48 IN) | 1.2 M (48 IN) | 2 M (78 IN) | 2 M (78 IN) | 2 M (78 IN) | 2 M (78 IN) | 2 M (78 IN) | 1.2 M (48 IN) |

Enguard Pedestal

The Enguard pedestal incorporates an integral guardrail pedestal base, which minimises the footprint area the pedestal takes up on the deck. The Enguard pedestal can be found fitted to many production boats around the world.

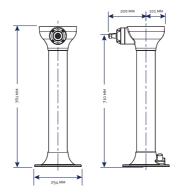
- Integrated guardrail base providing compact and rapid installation
- Wide range of accessories available
- Custom heights available

Enguard Pedestal Part Numbers

Standard part numbers listed below. Many variations available, contact your Lewmar representative for more information

| PART NO. | DESCRIPTION |
|----------|----------------------------------|
| 89900003 | CONSTELLATION ENGUARD ANSI50 11T |
| 89900031 | COBRA CRUISING OL1OSTB |
| 89900046 | MAMBA ENGUARD BH10 BRAKE |

Enguard Pedestal Dimensions





Integra Pedestal

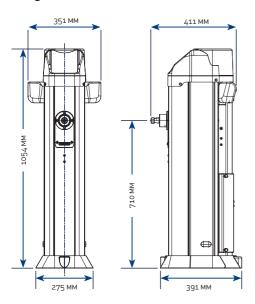
The Integra pedestal is the latest in Lewmar's range of integrated pedestal steering systems. The Integra offers quick and easy above deck access to fit Lewmar's patented autopilot drive motor.

The Integra pedestal can be found fitted to many production boats around the world.

- All Integra Cobra pedestals have the ability to install an integrated autopilot drive
- Harness bolts supplied as standard on the forward and aft side of the pedestal deck flange
- Compass mounting platform and integrated housing
- Ability to mount I single instrument to the uPVC top moulding
- Pre-installed single lever engine control
- Removable access door for quick and simple autopilot installation
- Pedestal pre-drilled for cockpit table mounting
- Pedestal stop ring included



Integra Pedestal Dimensions



Integra Pedestal Part Numbers

Standard part numbers listed below. Many variations available, contact your Lewmar representative for more information

| PART NO. | DESCRIPTION |
|----------|--------------------------------------|
| 89900014 | CONSTELLATION ROYALE ANSI50 11T |
| 89900034 | COBRA CRUISING ROYALE TMNT GUARDRAIL |
| 89900052 | MAMBA ROYALE BH10 BRAKE GUARDRAIL |

Royale Pedestal

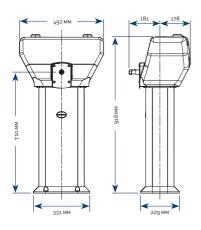
The Royale is an evolution of the console style pedestal range. The Royale head provides maximum flexibility for instrument mounting.

The Royale pedestal can be found fitted to many production boats around the world such as Hallberg Rassy and Rustler Yachts.

- Mounting areas for single lever engine control on port or starboard
- Accepts 4 Industry standard 110mm / 4.25" yachting instruments
- Flush mount compass platform



Royale Pedestal Dimensions



Royale Pedestal Part Numbers

Standard part numbers listed below. Many variations available, contact your Lewmar representative for more information

| PART NO. | DESCRIPTION |
|----------|-------------------------------------|
| 89900302 | CONSTELLATION INTEGRA 11T 5-8P |
| 89900299 | COBRA CRUISING INTEGRA OL10 L2 102L |
| 89900306 | MAMBA INTEGRA BH10 CU |

Custom Pedestal

Gunfleet Flightdeck®

For the Gunfleet 43 project, Lewmar designed and specified all of the internal components to fit the customer's own pedestal.



Bavaria Pedestal

- Custom steering pedestals designed for the Bavaria range of twin helm yachts.
- The GRP head can easily be trimmed to fit the customer's choice of instruments.
- Aluminium base provides excellent strength and rigidity with minimal weight.



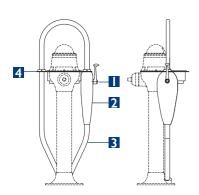
Guardrails

Lewmar Guardrails are designed to protect the compass and pedestal with also providing assistance while moving about the cockpit. Our wide range of straight, kickback and extended guardrails, are manufactured from 32mm/I.25" heavy duty 316 stainless steel tube. The extensive choice of guardrails is complemented by our instrument pod range.

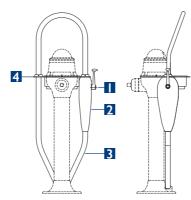


Enguard Guardrail kits

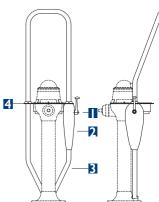
Enguard Guardrail Kits include: Guardrail (straight, kickback or extended kickback), Engine Pod, Top Plate & Cup holder



Straight Enguard Guardrail Kit 89400298



Kickback Enguard Guardrail Kit 89400125

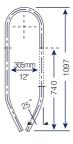


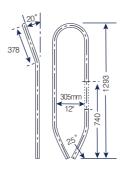
Enguard extended kickback guardrail kit

89400299

Enguard Guardrail Spares

| PART NO. | DESCRIPTION | KEY |
|----------|------------------------------------|-----|
| 89400031 | GUARDRAIL STRAIGHT (STBD) | |
| 89400033 | GUARDRAIL KICKBACK (STBD) | |
| 89400035 | GUARDRAIL EXTENDED KICKBACK (STBD) | |
| 89400109 | CONTROL MECHANISM | 1 |
| 89400084 | ENGINE POD | 2 |
| 89400120 | DROP TUBE | 3 |





89400031

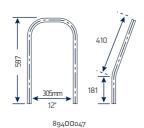
89400033

89400035

Royale Guardrail

| PART NO. | DESCRIPTION |
|----------|-----------------------------|
| 89400046 | KICKBACK GUARDRAIL |
| 89400047 | EXTENDED KICKBACK GUARDRAIL |



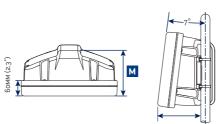


Instrument Pods

Helm Pod

With great new design features, the Lewmar Helm Pod is a perfect choice for all cockpit configurations.

- Range of models to fit up to 15" displays with options to install a combination of instruments and displays at the helm.
- Universal Helm Fixing fits pedestal rails from 25mm to 33.7mm (0.98" 1.33").
 Using a unique clamping system, the Pod can fit rail widths from 178mm (7") upwards.
- Secure & Watertight Install Saddle system supports the stainless tubing enabling a secure and rigid fit onto any pedestal and also ensures a watertight seal at cable entry
- No Drill Fixing Kit- Customised U-bolts fit around rail and through the saddles into the back of the pod eliminating the need for time consuming and awkward drilling of the stainless rail.
- Hassle Free Install & Service- Fixings fit from back to front cutting their threads into injection moulded ABS inserts designed into the Pod front.
- Supplied Uncut







PEDESTAL GUARD SHOWN HAS 12" CENTRES

| PART NO | DESCRIPTION | Α | | Α | | E | 3 | E | | F | = | | J | ŀ | (| L | | N | 1 |
|----------|--------------------------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-------|------|-----|-----|---|---|
| | | мм | IN мм | IN | мм | IN | мм | IN | | |
| 89400423 | UP TO 8" DISPLAY | 312 | 12.3 | 200 | 7.9 | 371 | 14.6 | 264 | 10.4 | 152 | 6.0 | 165 | 6.5 | 304.8 | 12.0 | 175 | 6.9 | | |
| 89400425 | 10@12" DISPLAY | 365 | 14.4 | 241 | 9.5 | 424 | 16.7 | 304 | 12.0 | 186 | 7.3 | 192 | 7.6 | 304.8 | 12.0 | 175 | 6.9 | | |
| 89400427 | 15" DISPLAY | 423 | 16.7 | 333 | 13.1 | 482 | 19.0 | 396 | 15.6 | 176 | 6.9 | 185 | 7.3 | 381 | 15.0 | 175 | 6.9 | | |
| 89400429 | 4 X STANDARD INSTRUMENTS | 498 | 19.6 | 118 | 4.65 | 562 | 22.1 | 187 | 7.4 | 100 | 4.0 | 103 | 4.1 | 406 | 16.0 | 175 | 6.9 | | |
| 89400430 | SYSTEM POD | 541 | 21.3 | 274 | 10.8 | 600 | 23.6 | 336 | 13.2 | 205 | 8.1 | 207 | 8.1 | 381 | 15.0 | 175 | 6.9 | | |

Stainless Steel GPS/ Mobile Phone Holder

- Manufactured from 316 investment cast stainless steel
- Pod arm will fit I", II/8" and II/4" diameter guardrail tubes
- All wiring of products mounted to the pod arm is hidden internally.



89400328

Instrument Pods

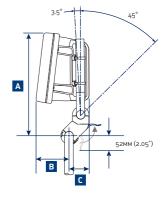
Flex Mount

- View your instruments from the perfect angle by using the Flex mount in combination with the Lewmar Helm Pod.
- The Flex-Mount System gives you more options for installing your electronics – simply clamp onto your existing rail or steering binnacle and install the Helm Pod as normal.
- Easy to use quick release lever tilt display forward / back for improved instrument viewing

- Cables exit the back of the Pod and into the pedestal / rail using watertight grommet
- Fits 25mm (1") and 31mm (1 1/4") rail sizes and requires minimum of 60mm (2.4") of straight rail to mount
- Three models available to suit 203mm (8"), 254mm (10") and 304mm (12") Helm Pod



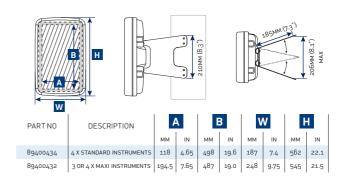
| PART NO | DESCRIPTION | A | A | E | 3 | C | | |
|----------|-------------------|-----|------|-------|------|----|-----|--|
| | | ММ | IN | ММ | IN | ММ | IN | |
| 89400440 | 8" HELM POD | 365 | 14.4 | 116 | 4.5 | 84 | 3.3 | |
| 89400441 | 10 @ 12" HELM POD | 404 | 16.0 | 158.5 | 6.25 | 72 | 2.8 | |
| 89400442 | 15" HELM POD | 495 | 19.5 | 148.5 | 5.85 | 72 | 2.8 | |



Mast Pod



- The Mast Pod range offers a choice of sizes to allow installation of up to 4 standard or larger 20/20 maxi style instruments at the mast.
- Whether racing or cruising, our Mast Pods give you the best view of your instruments.
- Universal Mount The range has been designed to fit mast sizes from 76mm (3") to 223mm (8.8"). Mast arms pivot about semi circular washers and an additional cross-brace provides stiffness preventing sideways movement.
- Increased Protection Pod seal is manufactured from a high tear strength silicone.



Classic Pod

- Fits directly to the Enguard and Classic style pedestals, via a special top plate.
- Offers increased mounting space for instruments, on the pedestal.
- Available with kickback guardrail for the inclusion of additional instrument pod options.
- Compass mounting point

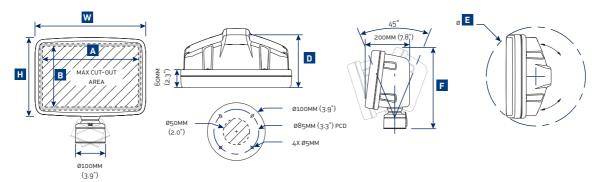


89400100

Deck Pod

- Solve the challenge of finding a level mounting surface to install your displays onto your powerboat, RIB or sailboat wheelhouse.
- Suitable for 203mm (8") to 381mm (15") display or am 8" display and 2 standard instruments
- Swivel & Tilt Base One handed quick release action. Simply release the lever, swivel and tilt to suit your requirements before locking back into position
- Best viewing angle An adjustable ball joint allows range of movement and multiple mounting angles
- Added Strength Inner bracing plate secures the Deck Pod base to the pod and gives increased rigidity to the assembly eliminating potential damaged from shock and vibration
- Increased Protection Pod seal is manufactured from a high tear strength silicone.
- Supplied Uncut

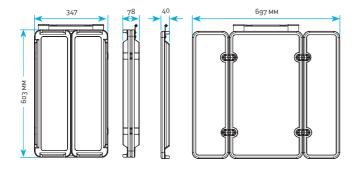




| PART NO | DESCRIPTION | A | A | E | 3 | ١ | N | H | 1 | | | I | 3 | F | |
|----------|------------------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|-----|------|
| | | ММ | IN ММ | IN | ММ | IN |
| 89400435 | UP TO 8" DISPLAY | 312 | 12.3 | 200 | 7.9 | 371 | 14.6 | 264 | 10.4 | 175 | 6.9 | 440 | 17.3 | 367 | 14.4 |
| 89400437 | 10@12" DISPLAY | 365 | 14.4 | 241 | 9.5 | 424 | 16.7 | 304 | 12.0 | 175 | 6.9 | 485 | 19.1 | 404 | 15.9 |
| 89400439 | 15" DISPLAY | 423 | 16.7 | 333 | 13.1 | 482 | 19.0 | 396 | 15.6 | 175 | 6.9 | 535 | 21.1 | 490 | 19.3 |

Cockpit Table

| PART NO. | DESCRIPTION |
|----------|--|
| 89400283 | TABLE KIT FOR CLASSIC PEDESTAL UNVARNISHED |
| 89400284 | TABLE KIT FOR ENGUARD PEDESTAL UNVARNISHED |
| 89400285 | TABLE KIT FOR RELIANT/ATHENA PEDESTAL UNVARNISHED |
| 89400286 | TABLE KIT FOR ROYALE PEDESTAL UNVARNISHED |
| 89400365 | TABLE KIT FOR INTEGRA PEDESTAL UNVARNISHED |
| 89400420 | UNIVERSAL TABLE MOUNTING KIT TO SUIT ENGUARD, RELIANT, ROYALE AND INTEGRA PEDESTALS |



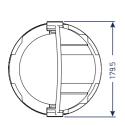


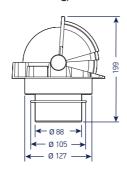
Pedestal Accessories

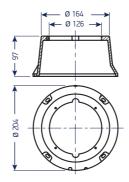
Compasses

The Lewmar I35 Compass is a stylish, precision instrument to complement any cockpit. The high-quality compass is manufactured with precision components. The compass utilises a real sapphire to ensure ultimate reliability and durability. The diaphragms, made of Viton®, are fully waterproof and absorb the fluid variations resulting from differing temperatures and air pressure. Every compass complies with rigorous vibration, temperature, stability and precision specifications.

- Apparent diameter of card: I30mm
- Flush mounting or pedestal mounting (with the addition of a binnacle)
- Minimal flushmount depth
- Double lighting (12 or 24 V mounting)
- Unique 'Lewmar' binnacle
- Black card
- 5 year warranty









Lewmar 135 Compass flush

mounted in pedestal

| 1100111100 | in pedestal |
|------------|--|
| PART NO. | MODEL 135 COMPASS |
| 89400000 | FLUSH MOUNT 135 COMPASS WITH HOOD |
| 89400001 | 135 COMPASS COMPLETE WITH BINNACLE HOUSING |
| 89400002 | BINNACLE ONLY |
| 89400001 | 135 COMPASS COMPLETE WITH BINNACLE HOUSING |

Engine Control Mechanism

Lewmar offers engine and gear controls to complement the steering pedestal of your choice. The engine control designed exclusively for Lewmar is non-magnetic and can be guardrail or pedestal mounted without interfering with the compass.

- Housed in pod
- Guardrail Mounted
- Bulkhead mounted fascia plate
- Exclusive design for Lewmar
- Non-magnetic
- 316 stainless steel cranked handle

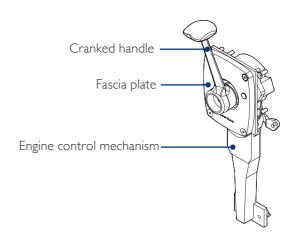


89800013 Rubber button plunger kit



89400136 Cranked Handle

| PART NO. | DESCRIPTION |
|----------|--|
| 89400109 | CONTROL MECH KIT CRANKED HANDLE AND FASCIA PLATE |
| 89400133 | FASCIA PLATE |
| 89400136 | CRANKED HANDLE STAINLESS STEEL |
| 89400137 | MECHANISM ONLY (NO HANDLE) |
| 89400146 | FITTING KIT FOR CONTROL MECHANISM |
| 89800013 | RUBBER BUTTON AND PLUNGER KIT |
| 89400316 | CONTROL MECHANISM CRANK HANDLE |





Autopilot Drives

With many boats being sailed short-handed, it has become common practice to fit an autopilot drive. Our comprehensive range of autopilots are easily retrofitted and are designed to align perfectly with the boat's steering system.

- All units have an electromechanical clutch, virtually eliminating drag on the steering system
- All units are compatible with the majority of electronic suppliers, such as Raymarine, B&G and Simrad
- All drives have low current draw
- Drives available in 1/4, 1/2 and 1HP capacities, suitable for all Lewmar steering types.



Integra Drives

The Integra drive is available in three formats. The Cobra™ and Mamba™ versions mount directly inside the Integra pedestal. This unique installation is only available from Lewmar and provides the installer with a simple and quick installation with no complicated, labour intensive mounting platforms required. We also offer an Integra Sprocket version, which is very popular with Bavaria Cruising yachts from 9m to 12m (30ft to 39ft) in length.







| PART NO | DESCRIPTION |
|----------|------------------------------------|
| 89300136 | INTEGRA BASE DRIVE UNIT 12V |
| 89300203 | INTEGRA DRIVE FOR INTEGRA PEDESTAL |

Mamba[™] Drives

These unique autopilot drives directly couple to Mamba TM systems, eliminating the need for separate platforms, chain and sprockets.





| | | | MAX OUTPUT TORQUE | | MAX RUDDER TORQUE | | | WEIGHT | | |
|---------------------------|-----|----------------------|-------------------|--------|-------------------|-----|--------|----------------------------|------|------|
| SPINE COUPLING CONNECTION | HP | VOLTAGE ¹ | NM | FT. LB | SPEED RPM | MKG | FT. LB | AVE CURRENT CONSUMPTION | KG | LB |
| 3/4 × 48 | 1/4 | 12 | 169 | 125 | 10 | 248 | 1794 | 4A | 9.0 | 19.8 |
| 3/4 × 48 | 1/4 | 24 | 169 | 125 | 10 | 248 | 1794 | 2.5A | 9.0 | 19.8 |
| 3/4 × 48 | 1/4 | 24 | 169 | 125 | 10 | 248 | 1794 | 2.5A | 9.0 | 19.8 |
| 3/4 × 48 | 1/2 | 24 | 183 | 135 | 13 | 426 | 3080 | 3.5A | 10.5 | 23.1 |
| 3/4 × 48 | 1/2 | 24 | 183 | 135 | 13 | 426 | 3080 | 3.5A | 10.5 | 23.1 |

¹ VOLTAGE REFERS TO CLUTCH



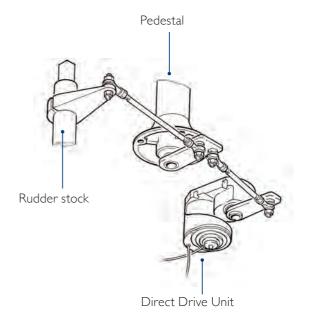
Direct Drives

Uniquely, the Direct Drive can operate onto the pedestal or gearbox output lever as an alternative to the rudder lever. This offers the installer and boat designer more options for layout as the Direct Drive can be mounted in any orientation.

- Available in Constellation[™], Cobra[™] and Mamba[™] steering systems
- Extremely powerful, delivering up to 2432Nm/1794ft. Ib of torque
- Virtually zero drag steering performance is not impaired
- Compact Direct Drive, enabling close mounting to the rudder stock, at any attitude



Direct drive connected to a tiller lever via a draglink



| | | | NO LOAD SPEED | MAX RUDDER TORQUE | | | WE | GHT |
|---------------------|-----|----------------------|---------------|-------------------|-------|--------------------------------|------|-------|
| OUTPUT LEVER CENTRE | HP | VOLTAGE ¹ | но-но | MKG | FT-LB | AVERAGE CURRENT CONSUMPTION | KG | LB |
| 166MM LEVER | 1/4 | 12 | 105 | 248 | 1794 | 4A | 8.8 | 19.4 |
| 166MM LEVER | 1/4 | 24 | 105 | 248 | 1794 | 4A | 8.8 | 19.4 |
| 166MM LEVER | 1/2 | 24 | 12\$ | 345 | 2496 | 3.5A | 24.8 | 55.0 |
| 166MM LEVER | 1/2 | 24 | 17S | 493 | 3566 | 3.5A | 45.5 | 100.0 |

¹ VOLTAGE REFERS TO CLUTCH



Rotary Sprocket Drives – To suit Constellation™ & Mamba™

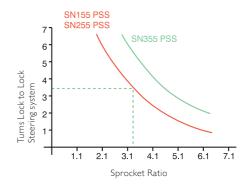
Lewmar offer 3 sizes of powerful and compact rotary drive units, which employ conventional chain and sprocket connection to the steering system.

The high-efficiency, twin-stage, epicyclic gearbox is grease filled, which allows mounting in any attitude. The wide mounting platform is slotted to aid chain tensioning. Rotary drives are generally used on cable and push-pull steering systems and it is necessary to calculate the correct driven sprocket, which is dependent on the turns (mechanical advantage) of the steering system.

Lewmar can supply fully machined sprockets for your steering system in steel or stainless steel upon request, as well as chain and master links.



Please refer to the graph to calculate the correct sprocket size. The turns lock to lock is referred to at the position on the steering where the driven sprocket is to be mounted.



| | | POWER | VOLTAGE ¹ | MAX OU TOR | | NO LOAD SPEED | | UDDER QUE | AVGE CURRENT CONSUMPTION | | IGHT |
|----------|---------------------|-------|----------------------|---------------|--------|------------------|------|--------------|--------------------------|------|------|
| | SPROCKET SIZE | HP | | NM | FT. LB | RPM | MKG | FT. LB | | KG | LB |
| 89300002 | 5/8" P 9T SPROCKET | 1/4 | 12 | 43 | 32 | 44 | 207 | 1500 | 4.0A | 8.8 | 19.4 |
| 89300004 | 5/8" P 9T SPROCKET | 1/4 | 24 | 43 | 32 | 44 | 207 | 1500 | 2.5A | 8.8 | 19.4 |
| 89300008 | 5/8" P 9T SPROCKET | 1/2 | 24 | 47 | 35 | 55 | 332 | 2400 | 3.5A | 10.0 | 22.0 |
| 89300127 | 3/4" P 11T SPROCKET | 1 | 24 | 466 | 344 | 18 | 1660 | 12055 | 6.0A | 30.0 | 66.1 |

¹ VOLTAGE REFERS TO CLUTCH



Lewmar recommends the following drive units for your boat. If your boat is not listed here, please contact your Lewmar representative for further information.

| BOAT BUILDER/MODEL | DESCRIPTION | PART NO. |
|---------------------------------|-----------------------------|----------|
| BAVARIA | | |
| 30, 33, 39 CRUISERS | INTEGRA | 89300136 |
| 46 CRUISER, 46 STYLE, VISION 42 | INTEGRA | 89300180 |
| 42, 44, 49, 50 CRUISERS | MAMBA TM | 89300137 |
| 45, C45 | DIRECT | 89300163 |
| 50, C50 | DIRECT | 89300169 |
| 55 | DIRECT | 89300152 |
| VISION 46 | INTEGRA | 89300186 |
| DUFOUR | | |
| DUFOUR 34 | CONSTELLATION™ | 89300109 |
| DUFOUR 360, 390, 430, P36 | INTEGRA | 89300137 |
| DUFOUR 310, 460 | INTEGRA | 89300170 |
| DUFOUR 40, 44 | CONSTELLATION TM | 89300086 |
| DUFOUR 385, 455 | CONSTELLATION™ | 89300123 |
| GIB SEA 43 | MAMBA TM | 89300137 |
| HALBERG RASSY | | |
| HR 40, 43 | MAMBA TM | 89300137 |
| HR 46, 48, 53 - 12V | MAMBA TM | 89300137 |
| HR 46, 48, 53 - 24V | MAMBA TM | 89300054 |
| HR 62 | MAMBA TM | 89300060 |
| HANSE | | |
| 588, 575 | INTEGRA | 89300230 |
| HUNTER | | |
| HUNTER 44, 49 | MAMBA TM | 89300137 |
| HUNTER 45CC | INTEGRA | 89300203 |
| ISLAND PACKET | | |
| IP 370 | DIRECT | 89300040 |
| IP 440 | DIRECT | 89300040 |
| IP 445 | MAMBA TM | 89300137 |
| IP 485 | MAMBA TM | 89300137 |

| NAJAD NAJAD 400 NAJAD 400 NAJAD 400 NAJAD 400 NAJAD 400, 490, 511 RUSTLER RUSTLER RUSTLER 42/44 MAMBA™ 8930033 RUSTLER 57 MAMBA™ 8930060 GUNFLEET GUNFLEET 58 MAMBA™ 8930060 GUNFLEET 43 MAMBA™ 8930039 VANCOUVER 49 MAMBA™ 8930017 OYSTER OYSTER 62 MAMBA™ 8930060 OYSTER 655 MAMBA™ 89300166 OYSTER 655 MAMBA™ 89300138 OYSTER 72 MAMBA™ 89300138 OYSTER 72 MAMBA™ 89300129 OYSTER 82 MAMBA™ MAMBA™ 89300129 OYSTER 82 MAMBA™ TARTAN 3400 DIRECT B9300039 TARTAN TARTAN 4100 DIRECT 89300039 DISCOVERY 435 MAMBA™ 89300137 B9300137 DISCOVERY 435 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300137/89300054 DISCOVERY 55/58 MAMBA™ 89300137/89300054 DISCOVERY 55/58 MAMBA™ MAMBA™ 89300137/89300054 | BOAT BUILDER/MODEL | DESCRIPTION | PART NO. |
|---|------------------------|---------------------|-------------------|
| NAJAD 460, 490, 511 RUSTLER RUSTLER 42/44 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 58 MAMBA™ RUSTLEET 58 MAMBA™ RUSTLEET 58 MAMBA™ RUSTLEET 43 RUSTLEET 43 MAMBA™ RUSTLEET 43 DALAN | | |
| RUSTLER RUSTLER 42/44 RUSTLER 57 MAMBA™ 89300039 RUSTLER 57 MAMBA™ 89300060 GUNFLEET GUNFLEET 58 MAMBA™ 89300060 GUNFLEET 43 MAMBA™ 89300039 VANCOUVER 49 MAMBA™ 89300039 VANCOUVER 49 MAMBA™ 8930017 OYSTER OYSTER 62 MAMBA™ 89300166 OYSTER 625 MAMBA™ 89300166 OYSTER 655 MAMBA™ 89300138 OYSTER 72 MAMBA™ 8930017 OYSTER 72 MAMBA™ 89300129 OYSTER 82 MAMBA™ TARTAN TARTAN 400 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY 4ACHTS GROUP DISCOVERY 435 MAMBA™ 89300137/89300054 MAMBA™ 89300137/89300054 MAMBA™ 89300137/89300054 | NAJAD 400 | MAMBA TM | 89300137 |
| RUSTLER 42/44 RUSTLER 57 RUMAMBA™ RUSTLER 57 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 57 MAMBA™ RUSTLER 58 MAMBA™ RUSTLEE 58 MAMBA™ RUSTLEET 58 MAMBA™ RUSTLEET 58 MAMBA™ RUSTLEET 43 RUSTLEET 43 MAMBA™ RUSTLEET 43 RUSTLEET 45 RU | NAJAD 460, 490, 511 | MAMBA TM | 89300137 |
| RUSTLER 57 GUNFLEET GUNFLEET 58 MAMBA TM 89300050 GUNFLEET 43 MAMBA TM 89300039 VANCOUVER 49 MAMBA TM 89300117 OYSTER OYSTER 62 MAMBA TM 89300166 OYSTER 625 MAMBA TM 89300166 OYSTER 655 MAMBA TM 89300138 OYSTER 72 MAMBA TM 89300138 OYSTER 72 MAMBA TM 89300129 OYSTER 725 MAMBA TM 89300064 TARTAN TARTAN 3400 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY 435 MAMBA TM 89300137 89300137 B9300054 MAMBA TM 89300137 B9300054 MAMBA TM 89300137 B9300054 MAMBA TM 89300137 B9300054 MAMBA TM 89300137 B9300054 | RUSTLER | | |
| GUNFLEET GUNFLEET 58 MAMBA TM 89300050 GUNFLEET 43 MAMBA TM 89300039 VANCOUVER 49 MAMBA TM 89300117 OYSTER OYSTER 62 MAMBA TM 89300160 OYSTER 625 MAMBA TM 89300166 OYSTER 655 MAMBA TM 89300170 OYSTER 72 MAMBA TM 89300170 OYSTER 72 MAMBA TM 89300129 OYSTER 72 MAMBA TM 89300129 OYSTER 82 MAMBA TM 89300129 TARTAN TARTAN TARTAN 3700 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY 435 MAMBA TM 89300137 B9300137 DISCOVERY 488 MAMBA TM 89300159 | RUSTLER 42/44 | MAMBA TM | 89300039 |
| GUNFLEET 58 MAMBA TM 89300060 GUNFLEET 43 MAMBA TM 89300039 VANCOUVER 49 MAMBA TM 89300117 OYSTER OYSTER 62 MAMBA TM 89300160 OYSTER 625 MAMBA TM 89300166 OYSTER 655 MAMBA TM 89300138 OYSTER 72 MAMBA TM 89300070 OYSTER 725 MAMBA TM 89300129 OYSTER 82 MAMBA TM 89300064 TARTAN TARTAN 3400 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 435 MAMBA TM 89300137 BISCOVERY 48 MAMBA TM 89300060 | RUSTLER 57 | MAMBA TM | 89300060 |
| GUNFLEET 43 MAMBATM 89300039 VANCOUVER 49 MAMBATM 89300117 OYSTER OYSTER 62 MAMBATM 89300060 OYSTER 625 MAMBATM 89300166 9300138 OYSTER 655 MAMBATM 89300138 9300070 OYSTER 72 MAMBATM 89300129 9300129 OYSTER 82 MAMBATM 89300064 89300064 TARTAN TARTAN 3400 DIRECT 89300039 9300039 TARTAN 4100 DIRECT 89300039 9300039 <td>GUNFLEET</td> <td></td> <td></td> | GUNFLEET | | |
| VANCOUVER 49 MAMBA™ 89300117 OYSTER OYSTER 62 MAMBA™ 89300060 OYSTER 625 MAMBA™ 89300166 OYSTER 655 MAMBA™ 89300138 OYSTER 72 MAMBA™ 89300070 OYSTER 725 MAMBA™ 89300129 OYSTER 82 MAMBA™ 89300064 TARTAN TARTAN 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | GUNFLEET 58 | MAMBA TM | 89300060 |
| OYSTER 62 MAMBA TM 89300060 OYSTER 625 MAMBA TM 89300166 OYSTER 655 MAMBA TM 89300138 OYSTER 72 MAMBA TM 89300070 OYSTER 725 MAMBA TM 89300129 OYSTER 82 MAMBA TM 89300064 TARTAN TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | GUNFLEET 43 | MAMBA TM | 89300039 |
| OYSTER 62 MAMBA™ 89300060 OYSTER 625 MAMBA™ 89300166 OYSTER 655 MAMBA™ 89300138 OYSTER 72 MAMBA™ 89300070 OYSTER 725 MAMBA™ 89300129 OYSTER 82 MAMBA™ 89300064 TARTAN TARTAN 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | VANCOUVER 49 | MAMBA TM | 89300117 |
| OYSTER 625 MAMBA TM 89300166 OYSTER 655 MAMBA TM 89300138 OYSTER 72 MAMBA TM 89300070 OYSTER 725 MAMBA TM 89300129 OYSTER 82 MAMBA TM 89300064 TARTAN TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | OYSTER | | |
| OYSTER 655 MAMBA™ 89300138 OYSTER 72 MAMBA™ 89300070 OYSTER 725 MAMBA™ 89300129 OYSTER 82 MAMBA™ 89300064 TARTAN 1ARTAN 89300039 TARTAN 3400 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP MAMBA™ 89300137 DISCOVERY 435 MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | OYSTER 62 | MAMBA TM | 89300060 |
| OYSTER 72 MAMBA™ 89300070 OYSTER 725 MAMBA™ 89300129 OYSTER 82 MAMBA™ 89300064 TARTAN B9300039 TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 B9300039 TARTAN 4100 DIRECT 89300039 B9300039 DISCOVERY YACHTS GROUP B9300039 B9300137 B9300137 DISCOVERY 435 MAMBA™ 89300137/89300054 B9300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | OYSTER 625 | MAMBA TM | 89300166 |
| OYSTER 725 MAMBA™ 89300129 OYSTER 82 MAMBA™ 89300064 TARTAN 89300039 TARTAN 3400 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP 89300039 DISCOVERY 435 MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | OYSTER 655 | MAMBA TM | 89300138 |
| OYSTER 82 MAMBA™ 89300064 TARTAN TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP BISCOVERY 435 MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | OYSTER 72 | MAMBA TM | 89300070 |
| TARTAN B9300039 TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP MAMBA™ 89300137 DISCOVERY 435 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300137/89300060 | OYSTER 725 | MAMBA TM | 89300129 |
| TARTAN 3400 DIRECT 89300039 TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP BOSCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | OYSTER 82 | MAMBA TM | 89300064 |
| TARTAN 3700 DIRECT 89300039 TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP 89300137 DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | TARTAN | | |
| TARTAN 4100 DIRECT 89300039 TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP 89300137 DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | TARTAN 3400 | DIRECT | 89300039 |
| TARTAN 4400 DIRECT 89300039 DISCOVERY YACHTS GROUP 89300137 DISCOVERY 435 MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | TARTAN 3700 | DIRECT | 89300039 |
| DISCOVERY YACHTS GROUP 89300137 DISCOVERY 435 MAMBA TM 89300137 DISCOVERY 48 MAMBA TM 89300137/89300054 DISCOVERY 54 MAMBA TM 89300060 | TARTAN 4100 | DIRECT | 89300039 |
| DISCOVERY 435 MAMBA™ 89300137 DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | TARTAN 4400 | DIRECT | 89300039 |
| DISCOVERY 48 MAMBA™ 89300137/89300054 DISCOVERY 54 MAMBA™ 89300060 | DISCOVERY YACHTS GROUP | | |
| DISCOVERY 54 MAMBA™ 89300060 | DISCOVERY 435 | MAMBA TM | 89300137 |
| 33 444 | DISCOVERY 48 | MAMBA TM | 89300137/89300054 |
| DISCOVERY 55/58 MAMBATM 89300057 | DISCOVERY 54 | MAMBA TM | 89300060 |
| 25,500054 | DISCOVERY 55/58 | MAMBA TM | 89300054 |

Part Number Index

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|---------|------|--------------------|---------------|---------|---------------------|------------------|---------------------|
| | | | | | | | |
| 56205 | 91 | 57816 | 95 | 581111 | 125, 128 | 589296 | 107, 128 - 130 |
| 56206 | 91 | 57820 | 95 | 581112 | 125, 128 | 589300 | 122 |
| 56207 | 91 | 57825 | 95 | 581113 | 125 | 589301 | 122 |
| 56208 | 91 | 57901 | 93 | 581114 | 128 | 589302 | 122 |
| 56209 | 91 | 57902 | 93 | 582008 | 124 | 589303 | 122 |
| 56210 | 91 | 57905 | 93 | 582009 | 124 | 589310 | 122 |
| 56211 | 91 | 57907 | 93 | 583041 | 129 | 589321 | 122 |
| 57206 | 89 | 57910 | 93 | 583082 | 126 | 589350 | 121, 122, 126 |
| 57210 | 89 | 579 1 5 | 93 | 583083 | 126 | 589351 | 121 - 123, 126, 129 |
| 57216 | 89 | 57920 | 93 | 583084 | 126, 129 | 589352 | 126 |
| 57220 | 89 | 57930 | 93 | 583085 | 126, 129 | 589355 | 126 |
| 57225 | 89 | 57950 | 93 | 583086 | 126, 129 | 589357 | 121, 126 |
| 57232 | 89 | 57980 | 93 | 583087 | 126, 129 | 589358 | 121, 126 |
| 57240 | 89 | 58102 | 85 | 583088 | 126, 129 | 589401 | 122 |
| 57250 | 89 | 58103 | 85 | 583089 | 126, 129 | 589402 | 122 |
| 57263 | 89 | 58105 | 85 | 583090 | 126 | 589403 | 122 |
| 57306 | 87 | 58107 | 85 | 583091 | 126 | 589451 | 121, 122, 124 |
| 57310 | 87 | 58110 | 85 | 583092 | 126, 129 | 589452 | 124 |
| 57316 | 87 | 58302 | 85 | 583093 | 126, 129 | 589453 | 124 |
| 57320 | 87 | 58303 | 85 | 583094 | 129 | 589454 | 121, 124 |
| 57325 | 87 | 58305 | 85 | 583095 | 126, 129 | 589501 | 122 |
| 57332 | 87 | 58307 | 85 | 583096 | 126, 129 | 589502 | 122 |
| 57340 | 87 | 58310 | 85 | 583097 | 126, 129 | 589503 | 122 |
| 57350 | 87 | 58901 | 93 | 585029 | 127, 130 | 589510 | 122 |
| 57363 | 87 | 58902 | 93 | 585040 | 126,127 | 589550 | 121, 122 |
| 57404 | 87 | 58905 | 93 | 585041 | 126, 127, 130 | 589551 | 121 - 123, 127, 130 |
| 57406 | 87 | 58907 | 93 | 587032 | 127 | 589552 | 121 - 123, 127, 130 |
| 57410 | 87 | 58910 | 93 | 589006 | 120, 121, 123 | 589557 | 121, 127 |
| 57416 | 87 | 58915 | 93 | 589008 | 121, 123 | 589700 | 122 |
| 57420 | 87 | 58920 | 93 | 589009 | 121, 123 | 589701 | 122 |
| 57425 | 87 | 58930 | 93 | 589010 | 121, 123 | 589702 | 122 |
| 57432 | 87 | 58950 | 93 | 589011 | 121, 123 | 589703 | 122 |
| 57440 | 87 | 58980 | 93 | 589012 | 121, 123 | 589710 | 122 |
| 57450 | 87 | 551035 | 125 | 589013 | 120, 121, 123 | 589750 | 121, 122, 127 |
| 57463 | 87 | 551052 | 125 | 589016 | 105 | 589751 | 121, 122, 127 |
| 57506 | 83 | 552004 | 124 | 589017 | 105 | 589752 | 127 |
| 57510 | 83 | 552005 | 124 | 589018 | 105 | 589800 | 109, 120 |
| | 83 | | 124,125,126 | | | | 109, 120 |
| 57516 | 83 | 553034 | 126 | 589019 | 105 | 589801 589802 | |
| 57520 | | 553035 | | 589021 | 105 | | 109, 120 |
| 57525 | 83 | 553036 | 126, 127 | 589064 | 121, 122 | 589803 | 109, 120 |
| 57532 | 83 | 553071 | 126 | 589065 | 121, 122 | 589804 | 109, 120 |
| 57540 | 83 | 555025 | 127 | 589066 | 121, 122 | 589805 | 109, 120 |
| 57550 | 83 | 555034 | 126, 127 | 589094 | 121 | 589806 | 124 - 127 |
| 57563 | 83 | 555035 | 127 | 589096 | 121, 122 | 589808 | 128 - 130 |
| 57606 | 83 | 555038 | 127 | 589101 | 122 | 589809 | 128 - 130 |
| 57610 | 83 | 557025 | 127 | 589102 | 122 | 589810 | 120 |
| 57616 | 83 | 557030 | 127 | 589103 | 122 | 589811 | 120 |
| 57620 | 83 | 557035 | 127 | 589110 | 122 | 589813 | 120 |
| 57625 | 83 | 559018 | 121. 122, 125 | 589150 | 122, 125, 127 | 589830 | 120 |
| 57632 | 83 | 559033 | 120 | 589151 | 121 - 123, 125, 128 | 589834 | 126, 127 |
| 57640 | 83 | 559036 | 121 | 589156 | 121, 125 | 589836 | 125 |
| 57650 | 83 | 559037 | 121 | 589157 | 128 | 589844 | 125, 126 |
| 57663 | 83 | 559038 | 121 | 589206 | 105 | 589845 | 117 |
| 57806 | 95 | 559107 | 121, 122, 124 | 589222 | 109, 121, 123 | 589846 | 117 |
| 57808 | 95 | 559152 | 125, 127 | 589223 | 109, 121, 123 | 589856 | 124, 125 |
| 57810 | 95 | 559755 | 127 | 589267 | 109, 121, 123 | 589857 | 124, 125 |
| 57812 | 95 | 559775 | 121 | 589268 | 109, 121, 123 | 589858 | 126,127 |
| 57814 | 95 | 581110 | 125 | 589274 | 107, 124 - 127 | 589864 | 120 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|------------------|------------|----------------------|-------------|----------------------|-----------------|----------------------|---------------|
| PART NO | PAGE | PARTNO | PAGE | PART NO | PAGE | PART NO | PAGE |
| 589865 | 120 | 15000301 | 268 | 29141010 | 252 | 29196010 | 302 |
| 589866 | 120 | 15000464 | 253, 260 | 29141011 | 252 | 29196011 | 304 |
| 589867 | 120 | 15000827 | 253, 260 | 29141110 | 252 | 29196012 | 316 |
| 590000 | 106 | 18000200 | 52 | 29141111 | 252 | 29196013 | 316 |
| 590001 | 106 | 18000237 | 52 | 29141122 | 252 | 29196014 | 316 |
| 590002 | 106 106 | 18000301 | 47, 52, 234 | 29145301 | 252 | 29196021 | 304 |
| 590003 | 106 | 18000302 | 47, 52, 234 | 29145311 | 252 | 29196031 | 303 |
| 590004 | 106 | 19006100 | 225 | 29160112 | 325 | 29196034 | 303 |
| 590005 | 106 | 19701000 | 237 | 29165066 | 320 | 29196039 | 303 |
| 590006 590007 | 106 | 19701100 19701500 | 237 237 | 29166215 29166225 | 344 | 29196047 29196061 | 302 304 |
| 590007 | 106 | 19701600 | 237 | 29166230 | 344 | 29196064 | 304 |
| | 106 | 19810600 | 314 | | 344 310, 312 | 29196065 | |
| 590009 | 106 | | | 29170022 | | | 297, 304, 315 |
| 590010 | | 19820600 | 314 | 29171010 | 325 | 29197201 | 302 |
| 590011 | 106 | 19830500 | 314 178 | 29171021 | 330, 332 | 29197202 | 302 |
| 590012 | 106 | 19899000 | | 29171022 | 312, 310 | 29197204 | 302 |
| 590013 | | | 178 | 29171024 | 336 | 29197211 | 304 |
| 590014 | 106 106 | 19899200 | 178 178 | 29172016 | 344 | 29197221 | 304 |
| 590015 | | 19899300 | | 29172021 | 330, 332 | 29197231 | 303 |
| 590016 | 106 | 19899400 | 178 | 29172024 | 336 | 29197234 | 303 |
| 590017 | 106 | 19899500 | 178 | 29172117 | 344 | 29197237 | 303 |
| 590018 | 106 | 19899600 | 178 | 29175022 | 312 | 29197239 | 303 |
| 590019 | 106 | 25002323 | 351 | 29181315 | 339 | 29197247 | 302 |
| 590020 | 106 | 25002920 | 336 | 29181320 | 339 | 29197261 | 304 |
| 590021 | 106 | 25003438 | 336 | 29181415 | 338, 339 | 29197264 | 304 |
| 590022 | 106 | 25003969 | 336 | 29181420 | 339 | 29197265 | 297, 304, 315 |
| 590024 | 106 | 27195047 | 305 | 29181430 | 339 | 29197266 | 320 |
| 590030 | 106 | 27196001 | 305 | 29182315 | 339 | 29199001 | 302 |
| 590031 | 106 | 27196002 | 305 | 29182320 | 339 | 29199004 | 302 |
| 590032 | 106 106 | 27196004 | 306 | 29182415 | 339 | 29199011 | 304 |
| 590033 | | 27196011 27196021 | 305 | 29182420 | 338, 339 | 29199061 | 304 |
| 590034 | 106 | | 306 | 29182430 | 339 | 29395000 | 318 |
| 590035 | 106 | 27196031 | 306 | 29192105 | 320 | 29442705 | 344 |
| 590101 | 106 106 | 27196038 | 306 | 29194061 | 294 | 29471010 | 336 |
| 590102 | | 27196039 | 306 | 29194062 | 294 | 29472010 | 336 |
| 591101 | 105 | 27196061 | 306 | 29195001 | 302 | 29473024 | 336 |
| 591251 | 105 | 27197201 | 305 | 29195002 | 302 | 29900010 | 312 |
| 591482 | 105 | 27197202 | 305 | 29195003 | 302 | 29900011 | 312 |
| 591820 | 116 | 27197204 | 306 | 29195004 | 302 | 29900012 | 312 |
| 591821 | 116 116 | 27197211 | 305 306 | 29195005 | 302 | 29900013 29900014 | 312 |
| 592510 | 116 | 27197221 | | 29195009 | 302 | | 312 |
| 592511 | 116 | 27197261 | 306 | 29195010 | 302 | 29900015 | 312 |
| 592520 | 116 | 27197264 | | 29195011 | 304 | 29900016 | 312 |
| 592521 | 116 | 27199001 | 305 | 29195021 | 304 | 29900017 | 312 |
| 592522 | 116 | 29041700 | 344 | 29195031 | 303 | 29900240 29900340 | 294 |
| 593010 | 116 | 29042700 | 344 | 29195034 | 303 | | 294 |
| 593011 | 116 | 29043702 | 344 | 29195037 | 303 | 29903401 | 345 |
| 593020 | 116 | 29104103 | 354 | 29195039 29195047 | 303 | 29903402 | 345 |
| 593021 | 116 | 29104113 | 354 | | 302 | 29903453 | 345 |
| 593022 | | 29104115 | 354 | 29195061 | 304 | 29903454 | 345 |
| 593023 | 116 266 | 29104116 | 354 | 29195064 | 304 | 29903457 | 345 |
| 4000460 | | 29140017 | 23, 27, 252 | 29195065 | 297, 304, 315 | 29903458 | 345 |
| 6052904 | 76 | 29140020 | 252 | 29196001 | 302 | 29904040 | 320 |
| 6052907 | 76 -C | 29140040 | 251 | 29196002 | 302 | 29904041 | 320 |
| 6052945 | 76 | 29140042 | 251 | 29196003 | 302 | 29904046 | 315 |
| 6600099 | 78 78 | 29140044 29140046 | 251 251 | 29196004 | 302 | 29904050 | 297, 315 |
| 6600842 | | | | 29196005 | 302 | 29904054 | 320 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|------------|-------------------------|----------|------|----------|------------------------------|----------|--------------------|
| | | | | | | | |
| 29904104 | 325 | 30222000 | 169 | 39950030 | 144 | 48000077 | 220 |
| 29904105 | 354 | 30229100 | 152 | 39951030 | 145 | 48000078 | 220 |
| 29904115 | 354 | 30277800 | 169 | 39954012 | 135 | 48000116 | 220 |
| 29904117 | 354 | 30307400 | 153 | 39954020 | 147 | 48000117 | 220 |
| 29904118 | 354 | 30307500 | 153 | 39954030 | 144 | 48000178 | 234 |
| 29904126 | 354 | 30320600 | 153 | 39954812 | 135 | 48000179 | 234 |
| 29905410 | 345 | 39110070 | 175 | 39960012 | 135 | 48000180 | 234 |
| 29905412 | 345 | 39110090 | 175 | 39960020 | 147 | 48000181 | 234 |
| 29905414 | 345 | 39130070 | 175 | 39960030 | 144 | 48000211 | 220 |
| 29913316 | 349 | 39130090 | 175 | 39960812 | 135 | 48000212 | 220 |
| 29915076 | 349 | 39132070 | 175 | 39965030 | 144 | 48000217 | 234 |
| 29925040 | 293, 293, 297, 316 | 39132090 | 175 | 39970012 | 135 | 48000220 | 234 |
| 29926040 | 293, 295, 297, 304, 316 | 39140070 | 175 | 39970020 | 147 | 48000221 | 234 |
| 29927240 | 293, 295, 297, 304, 316 | 39140090 | 175 | 39970812 | 135 | 48000222 | 234 |
| 29929040 | 297, 304, 316 | 39160070 | 175 | 39977020 | 147, 149 | 48000224 | 234 |
| 29940487 | 318 | 39160090 | 175 | 40000901 | 239 | 48000225 | 234 |
| 29940707 | 318 | 39610050 | 149 | 40005066 | 243 | 48000227 | 234 |
| 29941207 | 318 | 39610070 | 149 | 45000023 | 253, 260 | 48000229 | 234 |
| 29942106 | 313 | 39620050 | 149 | 45000037 | 260 | 48000256 | 53, 235 |
| 29942136 | 313 | 39620070 | 149 | 45000118 | 261 | 48000257 | 53, 235 |
| 29942156 | 313 | 39630050 | 149 | 45000120 | 254, 261 | 48000258 | 53, 235 |
| 29942606 | 313 | 39630070 | 149 | 45000218 | 262 | 48000259 | 53, 235 |
| 29942806 | 313 | 39640050 | 149 | 45000222 | 255, 262 | 48000446 | 253 - 268 |
| 30067300 | 145 | 39640070 | 149 | 45000318 | 263 | 48000447 | 260 |
| 30069900 | 152 | 39644050 | 149 | 45000323 | 256, 263 | 48000448 | 261 |
| 30074000 | 152 | 39644070 | 149 | 45000324 | 256, 263 | 48000449 | 262 |
| 30179600 | 169 | 39650050 | 149 | 45000333 | 256, 263 | 48000450 | 263 |
| 30183700 | 169 | 39650070 | 149 | 45000418 | 264 | 48000451 | 264 |
| 30183800 | 169 | 39654050 | 149 | 45000422 | 257, 264, 265 | 48000452 | 265, 266 |
| 30184900 | 169 | 39654070 | 149 | 45000423 | 257, 264, 265 | 48000453 | 267, 268 |
| 30187100 | 169 | 39660050 | 149 | 45000424 | 257, 264, 265 | 48000454 | 253, 260 |
| 30190400 | 139 | 39660070 | 149 | 45000517 | 265 | 48000455 | 254, 261 |
| 30190500 | 139 | 39670050 | 149 | 45000518 | 265 | 48000456 | 255, 262 |
| 30190600 | 139 | 39670070 | 149 | 45000520 | 258, 266, 267 | 48000457 | 256, 263 |
| 30192000 | 169 | 39900030 | 144 | 45000522 | 258, 266, 267 | 48000458 | 257, 264 |
| 30192200 | 169 | 39903030 | 144 | 45000523 | 258, 266, 267 | 48000459 | 265 |
| 30193500 | 139 | 39910012 | 135 | 45000624 | 258, 259, 266, 268 | 48000460 | 258 |
| 30193600 | 176 | 39910030 | 144 | 45000713 | 268 | 48000461 | 267 |
| 30195400 | 139 | 39910812 | 135 | 45000717 | 267 | 48000462 | 259, 268 |
| 30196200 | 169 | 39918030 | 145 | 45000718 | 267 | 48000464 | 255, 262 |
| 30196300 | 169 | 39920012 | 135 | 45000818 | 268 | 48000465 | 254, 261 |
| 30196400 | 169 | 39920030 | 144 | 45000850 | 268 | 48000467 | 255, 262 |
| 30198700 | 169 | 39920812 | 135 | 45000851 | 259, 268 | 48000468 | 256, 257, 263, 264 |
| 30203300 | 169 | 39922030 | 145 | 45500104 | 254 | 48000469 | 256, 263 |
| 30204300 | 178 | 39930012 | 135 | 45500204 | 255 | 48000470 | 257, 264, 265 |
| 30204400 | 176 | 39930020 | 147 | 45500304 | 256 | 48000472 | 258, 266, 267 |
| 30205100 | 178 | 39930030 | 144 | 45500404 | 257 | 48000473 | 258, 265, 266, 267 |
| 30206300 | 169 | 39930812 | 135 | 45500504 | 258, 266 | 48000475 | 259, 268 |
| 30206400 | 169 | 39940020 | 147 | 45500604 | 259 | 48000476 | 259, 268 |
| 30206500 | 169 | 39940030 | 144 | 48000014 | 237, 253, 260 | 48000478 | 260 |
| 30206600 | 169 | 39941012 | 135 | 4-555514 | | 48000480 | 261 |
| 30200800 | 171 | 39941012 | 144 | 48000017 | 237, 258, 259, 265 - 268 | 48000482 | 262 |
| | | 39941030 | | 48000018 | | 48000484 | 263 |
| 30209900 | 171 | | 135 | 4000016 | 237 | 48000485 | 264 |
| 30211300 | 152 | 39944012 | 135 | 48000019 | 237, 254 - 258, 261 - 267 | | |
| 30211800 | 169 | 39944020 | 147 | /800055 | | 48000486 | 265 266 |
| 30212200 | 169 | 39944030 | 144 | 48000055 | 265 | 48000487 | |
| 2012/10000 | 169 | 39944812 | 135 | 48000075 | 220 | 48000488 | 267 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------------------|--------------------|----------------------|------------|----------------------|------------|----------------------|------------|
| | | | 1.202 | | | | 1.02 |
| 48016017 | 260 | 48545017 | 256 | 49050015 | 239 | 49088104 | 238 |
| 48030017 | 261 | 48545200 | 220 | 49050050 | 239 | 49088109 | 238 |
| 48040040 | 262 | 48545201 | 220 | 49050101 | 231 | 49088245 | 239 |
| 48040300 | 227 | 48545210 | 220 | 49050103 | 231 | 49088248 | 238 |
| 48046017 | 263 | 48545300 | 218 | 49050125 | 242 | 49095001 | 243 |
| 48046300 48048040 | 227 264 | 48545301 48550017 | 218 | 49050130 | 242 | 49095004 | 243 |
| 48048300 | 227 | 48550200 | 257 220 | 49054000 | 226 | 49099000 | 243 243 |
| 48050300 | 227 | 48550201 | 220 | 49054001 49054050 | 239 | 49099009 49105002 | 243 |
| 48054300 | 227 | 48550210 | 220 | 49054100 | 231 | 49105006 | 243 |
| 48058300 | 227 | 48550300 | 218 | 49054101 | 231 | 49111104 | 238 |
| 48065300 | 227 | 48550301 | 218 | 49054103 | 231 | 49111109 | 238 |
| 48300027 | 254, 255, 261, 262 | 48555017 | 258 | 49058000 | 226 | 49111255 | 238 |
| 48300029 | 255, 262 | 48555200 | 220 | 49058001 | 226 | 49115000 | 243 |
| 48300036 | 256, 263 | 48555201 | 220 | 49058050 | 239 | 49120001 | 243 |
| 48300043 | 257, 264, 265 | 48555210 | 220 | 49058100 | 231 | 49122104 | 238 |
| 48300060 | 253, 260 | 48555300 | 218 | 49058101 | 231 | 49122121 | 238 |
| 48340200 | 233 | 48565017 | 259 | 49058103 | 231 | 49507075 | 225 |
| 48340201 | 233 | 48565200 | 220 | 49058104 | 231 | 49507076 | 225 |
| 48340210 | 233 | 48565201 | 220 | 49060000 | 242 | 49508075 | 225 |
| 48345200 | 233 | 48565210 | 220 | 49060009 | 242 | 49508076 | 225 |
| 48345201 | 233 | 48570200 | 220 | 49060015 | 239 | 49515055 | 217 |
| 48345210 | 233 | 48570201 | 220 | 49062050 | 239 | 49515056 | 217 |
| 48350200 | 233 | 48570206 | 220 | 49065000 | 226 | 49515057 | 217 |
| 48350201 | 233 | 48570207 | 220 | 49065001 | 226 | 49516075 | 225 |
| 48350210 | 233 | 48570208 | 220 | 49065100 | 231 | 49516076 | 225 |
| 48355200 | 233 | 48570210 | 220 | 49065101 | 231 | 49530055 | 217 |
| 48355201 | 233 | 48580200 | 220 | 49065103 | 231 | 49530056 | 217 |
| 48355210 | 233 | 48580201 | 220 | 49065104 | 231 | 49530057 | 217 |
| 48365200 | 233 | 48580206 | 220 | 49066000 | 226 | 49530075 | 225 |
| 48365201 | 233 | 48580207 | 220 | 49066001 | 226 | 49530076 | 225 |
| 48365210 | 233 | 48580208 | 220 | 49066005 | 226 | 49540055 | 217 |
| 48500005 | 253 | 48580210 | 220 | 49066006 | 226 | 49540056 | 217 |
| 48500015 | 253 | 49006075 | 225 | 49068001 | 242 | 49540057 | 217 |
| 48500016 | 253 | 49016000 | 226 | 49068021 | 242 | 49540075 | 225 |
| 48500030 | 254 | 49016001 | 226 | 49068100 | 231 | 49540076 | 225 |
| 48500031 | 254, 255 | 49030000 | 226 | 49068101 | 231 | 49540085 | 224 |
| 48500040 | 255 | 49030001 | 226 | 49068103 | 231 | 49540087 | 224 |
| 48500045 | 256 | 49040050 | 239 | 49068104 | 231 | 49540217 | 219 |
| 48500046 | 256 | 49040055 | 226 | 49068105 | 231 | 49540218 | 219 |
| 48500050 | 257 | 49040056 | 226 | 49068106 | 231 | 49540219 | 219 |
| 48500051 | 257 | 49044014 | 239 | 49068108 | 231 | 49545055 | 217 |
| 48500055 | 258 | 49044050 | 239 | 49068109 | 231 | 49545056 | 217 |
| 48500056 | 258 | 49046055 | 226 | 49068160 | 242 | 49545057 | 217 |
| 48500060 | 260 | 49046056 | 226 | 49077000 | 226 | 49545085 | 224 |
| 48500065 | 259 | 49046155 | 231 | 49077001 | 226 | 49545087 | 224 |
| 48500066 | 259, 268 | 49046156 | 231 | 49077005 | 226 | 49545100 | 231 |
| 48500105 | 254, 255 | 49046158 | 231 | 49077006 | 226 | 49545217 | 219 |
| 48500305 | 256 | 49046159 | 231 | 49077035 | 239 | 49545218 | 219 |
| 48500405 | 257, 258 | 49048015 | 239 | 49077100 | 231 | 49545219 | 219 |
| 48500605 | 259 | 49048050 | 239 | 49077101 | 231 | 49550055 | 217 |
| 48530017 48540017 | 254 | 49048055 49048056 | 226 | 49077103 | 231 | 49550056 | |
| 48540200 | 255 220 | 49048156 | 231 | 49077104 49077105 | 231 231 | 49550057 49550100 | 217 231 |
| 48540201 | 220 | 49048158 | 231 | 49077105 | 231 | 49550100 | 231 |
| 48540201 | 220 | 49048159 | 231 | 49077108 | 231 | 49550101 | 231 |
| 48540300 | 218 | 49050000 | 231 | 49077108 | 231 | 49550110 | 231 |
| 48540300 | 218 | 49050000 | 226 | 49082000 | 243 | 49550217 | 219 |
| 40240301 | 210 | 49050001 | 220 | 49002000 | £43 | 49550210 | 519 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------------------|------------|----------------------|---------------------------|----------|------|----------|------------|
| 49550219 | 219 | 56110003 | 123, 130 | 59093011 | 114 | 65001688 | 35 |
| 49555055 | 217 | 56110004 | 123, 128 | 59093012 | 114 | 65003097 | 99 |
| 49555056 | 217 | 56110005 | 123, 129 | 59093013 | 114 | 66000002 | 77 |
| 49555057 | 217 | 56110006 | 123, 130 | 59093014 | 114 | 66000003 | 77 |
| 49555100 | 231 | 56110007 | 123, 128 | 59093015 | 114 | 66000004 | 77 |
| 49555101 | 231 | 56110008 | 123, 129 | 59093020 | 113 | 66000005 | 77 |
| 49555200 | 219 | 56110009 | 123, 130 | 59093021 | 113 | 66000006 | 45, 77 |
| 49555201 | 219 | 56110010 | 123, 128 | 59093022 | 113 | 66000007 | 45, 77 |
| 49555210 | 219 | 56110011 | 123, 129 | 59093023 | 113 | 66000008 | 77 |
| 49555220 | 219 | 56110012 | 123, 130 | 59093024 | 113 | 66000009 | 77 |
| 49555221 | 219 | 56110013 | 128, 129, 130 | 59093025 | 113 | 66000010 | 77 |
| 49555230 | 219 | 56110014 | 128, 129 | 59093026 | 113 | 66000011 | 77 |
| 9565055 | 217 | 56110015 | 129 | 59093027 | 113 | 66000012 | 77 |
| 49565056 | 217 | 56110016 | 130 | 59094001 | 113 | 66000013 | 77 |
| 49565057 | 217 | 56110017 | 130 | 59094002 | 114 | 66000014 | 77 |
| 49565101 | 231 | 56110018 | 130 | 59094003 | 113 | 66000015 | 77 |
| 9565200 | 219 | 56110019 | 123, 128, 129 | 59094004 | 114 | 66000016 | 77 |
| 49565201 | 219 | 56110020 | 123, 130 | 59111001 | 111 | 66000017 | 77 |
| 49565210 | 219 | 56110021 | 128, 129, 130 | 59111002 | 111 | 66000018 | 77 |
| 9565220 | 219 | 56110022 | 128, 129 | 59111003 | 111 | 66000019 | 77 |
| 49565221 | 219 | 56110023 | 129 | 59111004 | 111 | 66000020 | 77 |
| 9565230 | 219 | 56110024 | 130 | 59112004 | 111 | 66000021 | 77 |
| 9570055 | 218 | 56110025 | 130 | 59112005 | 111 | 66000022 | 77 |
| 9570056 | 218 | 56110026 | 122, 123, 128 | 59112006 | 111 | 66000023 | 77 |
| 49570057 | 218 | 56110027 | 122, 123, 129 | 59112007 | 111 | 66000024 | 77 |
| 9570065 | 218 | 56110028 | 122, 123, 130 | 59112008 | 111 | 66000025 | 77 |
| 9570066 | 218 | 56110029 | 128, 129 | 59112009 | 111 | 66000027 | 77 |
| | 218 | 56110030 | 129 | 59112010 | 111 | 66000028 | 77 |
| 49570067 49570211 | 219 | 56110030 | 130 | 59112011 | 111 | 66000029 | 77 |
| | | 56110032 | | | 111 | 66000030 | |
| 49570212 | 219 219 | | 122, 123, 128 122, 123 | 59112012 | 111 | 66000060 | 77 |
| 49570213 | | 56110033 | | 59112013 | | | 70, 71 |
| 9570220 | 219 | 56110034 58090000 | 122, 123, 130 | 59112014 | 111 | 66000065 | 71, 72 |
| 9570221 | 219 | | 115 | 59112019 | 111 | 66000070 | 72 |
| 9570230 | 219 | 58090001 | 115 | 59112020 | 111 | 66000071 | 72 |
| 9580065 | 218 | 58090002 | 115 | 59112021 | 111 | 66000072 | 72 |
| 9580066 | 218 | 58090003 | 115 | 59112022 | 111 | 66000073 | 72 |
| 9580067 | 218 | 58090009 | 113 | 59112023 | 111 | 66000075 | 72 |
| 9580101 | 231 | 58090010 | 113 | 59112024 | 111 | 66000076 | 72 |
| 9580102 | 231 | 58090011 | 113 | 59112025 | 111 | 66000077 | 72 |
| 9580211 | 219 | 58090012 | 113 | 59112026 | 111 | 66000079 | 72 |
| 9580212 | 219 | 58090013 | 113 | 59112027 | 111 | 66000096 | 75 |
| 9580213 | 219 | 58090019 | 113 | 59113001 | 111 | 66000098 | 75, 76 |
| 9580220 | 219 | 58090023 | 120 | 59113002 | 111 | 66000099 | 69, 75, 76 |
| 9580221 | 219 | 59092000 | 113 | 59113005 | 111 | 66000101 | 75 |
| 9580230 | 219 | 59092001 | 113 | 59113006 | 111 | 66000102 | 75 |
| 9730055 | 222 | 59092002 | 114 | 59127002 | 118 | 66000600 | 65, 69 |
| 9740055 | 222 | 59092003 | 113 | 59127004 | 118 | 66000601 | 65, 69 |
| 9745055 | 222 | 59092004 | 113 | 59127100 | 118 | 66000602 | 69 |
| 9750055 | 222 | 59092005 | 114 | 59127110 | 118 | 66000605 | 69 |
| 9755055 | 222 | 59093000 | 113 | 59137001 | 118 | 66000606 | 69 |
| 9940055 | 223 | 59093001 | 113 | 59137002 | 118 | 66000607 | 69 |
| 9945055 | 223 | 59093002 | 113 | 59137003 | 118 | 66000608 | 69 |
| 9950055 | 223 | 59093003 | 113 | 59137004 | 118 | 66000609 | 69 |
| 9955055 | 223 | 59093004 | 113 | 59600140 | 248 | 66000610 | 69 |
| 51000370 | 119 | 59093005 | 113 | 59600142 | 248 | 66000611 | 69 |
| 51000470 | 119 | 59093006 | 113 | 59600150 | 248 | 66000612 | 69 |
| 56110001 | 123, 128 | 59093007 | 113 | 59600152 | 248 | 66000613 | 69 |
| 6110002 | 123, 129 | 59093010 | 114 | 65001687 | 35 | 66000614 | 69 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------------------|----------|----------------------|----------------|----------------------|--------------------|----------------------|----------------|
| PART NO | PAGE | PARINO | PAGE | PART NO | PAGE | PART NO | PAGE |
| 66000615 | 69 | 66000750 | 68 | 66100130 | 62 | 66830028 | 60 |
| 66000616 | 43, 75 | 66000751 | 68 | 66100135 | 62 | 66830029 | 60 |
| 66000617 | 75 | 66000752 | 68 | 66100136 | 62 | 66830030 | 60 |
| 66000620 | 75 | 66000754 | 68 | 66100137 | 62 | 66830031 | 60 |
| 66000624 | 70, 71 | 66000755 | 68 | 66100138 | 62 | 66830032 | 60 |
| 66000625 | 70, 71 | 66000758 | 75 | 66100139 | 62, 74 | 66830035 | 60 |
| 66000626 | 70, 71 | 66000759 | 75 | 66100140 | 62 | 66830040 | 59 |
| 66000627 | 70 | 66000760 | 75 | 66100141 | 62, 74 | 66830041 | 59 |
| 66000628 | 70, 71 | 66000761 | 75 | 66100142 | 62, 74 | 66840003 | 30,68 |
| 66000629 | 70 | 66000762 | 75 | 66100143 | 11, 15, 64 | 66840005 | 30, 68 |
| 66000631 | 70, 71 | 66000763 | 75 | 66120001 | 63, 64 | 66840007 | 100 |
| 66000632 | 70, 71 | 66000764 | 75 | 66120002 | 63 | 66840008 | 100 |
| 66000633 | 70, 71 | 66000766 | 43, 75 | 66120003 | 63 | 66840009 | 100 |
| 66000634 | 75 | 66000768 | 43, 75 | 66120004 | 63 | 66840027 | 98 |
| 66000639 | 60 | 66000769 | 75, 76 | 66120005 | 63 | 66840028 | 98 |
| 66000640 | 71 | 66000770 | 65 | 66120006 | 63, 64 | 66840045 | 45, 77 |
| 66000641 | 71 | 66000771 | 65 | 66120007 | 63 | 66840054 | 23, 27, 70, 71 |
| 66000642 | 71 | 66000772 | 65 | 66120008 | 63 | 66840056 | 23, 27, 67, 71 |
| 66000643 | 76 | 66000773 | 65 | 66120009 | 63, 64 | 66840060 | 100 |
| 66000644 | 76 | 66000774 | 65 | 66120010 | 15, 63 | 66840077 | 99 |
| 66000645 | 76 | 66000775 | 37 | 66120011 | 63, 64 | 66840078 | 99 |
| 66000646 | 76 | 66000791 | 66, 67 | 66120012 | 64 | 66840079 | 99 |
| 66000647 | 76 | 66000792 | 66, 67 | 66120013 | 64 | 66840080 | 99 |
| 66000648 | 76 | 66000793 | 66 | 66120014 | 64 | 66840081 | |
| 66000649 | 76 | 66000794 | 68 | 66140001 | | 66840082 | 99 |
| | • | | | | 74 | | 99 |
| 66000650 | 76 -6 | 66000795 | 68 | 66140002 | 74 | 66840083 | 99 |
| 66000651 | 76 | 66000796 | 68 | 66140003 | 74 | 66840084 | 66, 67 |
| 66000674 | 73 | 66000799 | 61, 62, 63, 64 | 66140004 | 74 | 66840085 | 100 |
| 66000675 | 73 | 66000805 | 65 | 66140005 | 74 | 66840096 | 100 |
| 66000676 | 73 | 66000810 | 78 | 66140006 | 74 | 66840329 | 99 |
| 66000677 | 73 | 66000811 | 78 | 66140007 | 74 | 66910422 | 20 |
| 66000678 | 73 | 66000816 | 78 | 66140008 | 41,74 | 66910423 | 20 |
| 66000679 | 73 | 66000817 | 78 | 66140009 | 74 | 66910424 | 20 |
| 66000680 | 73 | 66000819 | 15 | 66140010 | 74 | 66910425 | 20 |
| 66000681 | 73 | 66000832 | 78 | 66140011 | 74 | 66910426 | 20 |
| 66000682 | 73 | 66000833 | 78 | 66140012 | 74 | 66910427 | 20 |
| 66000683 | 73 | 66000834 | 78 | 66200076 | 70, 71, 72 | 66910428 | 20 |
| 66000684 | 73 | 66000835 | 78 | 66810007 | 27, 71 | 66910429 | 20 |
| 66000685 | 73 | 66000836 | 78 | 66810008 | 27, 71 | 66910437 | 20 |
| 66000686 | 73 | 66000837 | 78 | 66810011 | 30, 47 | 66910438 | 20 |
| 66000687 | 73 | 66000838 | 78 | 66810012 | 30, 47 | 66910439 | 20 |
| 66000688 | 73 | 66000839 | 78 | 66810024 | 30 | 66910440 | 20 |
| 66000691 | 35 | 66000840 | 78 | 66810025 | 30 | 66910441 | 48 |
| 66000692 | 32, 73 | 66000841 | 78 | 66810030 | 27, 66, 67, 70, 71 | 66910553 | 50 |
| 66000713 | 67 | 66000843 | 78 | 66810031 | 30, 68, 72 | 66940002 | 56 |
| 66000720 | 66, 67 | 66000844 | 78 | 66810032 | 47 | 68000024 | 32, 35 |
| 66000721 | 37 | 66000845 | 78 | 66810065 | 27, 70 | 68000037 | 32 |
| 66000722 | 37 | 66001190 | 78 | 66810132 | 27 | 68000129 | 52 |
| 66000723 | 37 | 66100120 | 61, 62 | 66830011 | 60 | 68000130 | 52 |
| 66000724 | 37 | 66100121 | 61 | 66830014 | 57 | 68000239 | 234 |
| 66000725 | 37 | 66100122 | 62 | 66830015 | 59 | 68000240 | 52, 234 |
| 66000738 | 37 | 66100123 | 61, 62 | 66830016 | 60 | 68000294 | 30, 47 |
| 66000741 | 66, 67 | 66100124 | 61, 62, 74 | 66830021 | 60 | 68000318 | 3º, 4/ 52 |
| 66000741 | 66 | 66100124 | 61 | 66830021 | 60 | 68000319 | |
| | | | | | | | 52 |
| 66000744 | 67, 68 | 66100126 | 61 | 66830023 | 60 | 68000320 | 52 |
| 66000745 66000746 | 67 67 | 66100127 66100128 | 61 62 | 66830025 66830026 | 6o 6o | 68000321 68000348 | 52 |
| | | | | | | | 52, 234 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------|-------------|----------|------------|----------|-----------|----------|------|
| 68000350 | 47, 52, 234 | 68000939 | 52 | 68001078 | 23 | 69000408 | 32 |
| 68000351 | 47, 52, 234 | 68000943 | 37 | 68001123 | 65 | 69000409 | 32 |
| 68000356 | 30 | 68000944 | 37 | 68001125 | 65 | 69000411 | 47 |
| 68000357 | 30 | 68000945 | 37 | 68001126 | 65 | 69000412 | 98 |
| 68000358 | 30 | 68000946 | 37 | 68001165 | 39 | 69000414 | 47 |
| 68000359 | 30 | 68000951 | 27 | 68001249 | 53, 235 | 69000415 | 47 |
| 68000360 | 27, 70, 71 | 68000967 | 54 | 68001256 | 53, 235 | 69000416 | 34 |
| 68000361 | 27, 70, 71 | 68000968 | 54 | 68001257 | 53, 235 | 69000418 | 37 |
| 68000362 | 27, 70, 71 | 68000969 | 55 | 68001258 | 53, 235 | 69000419 | 37 |
| 68000363 | 27, 71 | 68000973 | 34, 37 | 68010878 | 68 | 69000421 | 37 |
| 68000527 | 27, 71 | 68000974 | 34, 37 | 68100033 | 9, 61, 62 | 69000422 | 37 |
| 68000534 | 30, 47 | 68000975 | 34, 37 | 68100034 | 9, 61, 62 | 69000423 | 37 |
| 68000535 | 30, 47 | 68000976 | 47 | 68100035 | 61 | 69000424 | 37 |
| 68000538 | | 68000977 | | 68100036 | 61 | 69000427 | |
| | 27, 71 | | 47 | | | | 37 |
| 68000542 | 234 | 68000978 | 47 | 68120031 | 63, 64 | 69000428 | 37 |
| 68000593 | 55 | 68000979 | 47 | 68120032 | 63, 64 | 69000444 | 34 |
| 68000603 | 52 | 68000980 | 47 | 68120033 | 63, 64 | 69000445 | 34 |
| 68000604 | 52 | 68000981 | 34, 37 | 68120034 | 63, 64 | 69000447 | 37 |
| 68000813 | 27, 71 | 68000982 | 34, 37 | 68120035 | 63, 64 | 69000448 | 37 |
| 68000814 | 27, 71 | 68000983 | 34, 37 | 68120036 | 63, 64 | 69000449 | 37 |
| 68000815 | 27, 71 | 68000984 | 47 | 68120040 | 9, 63, 64 | 69000450 | 37 |
| 68000816 | 27, 71 | 68000985 | 47 | 68120041 | 9, 63, 64 | 69000453 | 47 |
| 68000828 | 27 | 68000986 | 47 | 68120042 | 9, 63, 64 | 69000456 | 47 |
| 68000829 | 27 | 68000987 | 47 | 68120043 | 9, 63, 64 | 69000458 | 47 |
| 68000840 | 27, 70 | 68000988 | 47 | 68140009 | 9,74 | 69000460 | 37 |
| 68000866 | 23, 27, 30 | 68001005 | 55 | 68140010 | 9 | 69000461 | 37 |
| 68000867 | 30 | 68001006 | 55 | 69000331 | 100 | 69000462 | 37 |
| 68000876 | 35 | 68001023 | 35 | 69000332 | 100 | 69000463 | 37 |
| 68000877 | 34 | 68001024 | 69 | 69000334 | 100 | 69000464 | 37 |
| 68000878 | 34 | 68001035 | 65 | 69000335 | 100 | 69000465 | 37 |
| 68000879 | 34 | 68001042 | 66 | 69000339 | 100 | 69000466 | 37 |
| 68000880 | 34 | 68001043 | 67 | 69000377 | 34 | 69000467 | 37 |
| 68000881 | 34 | 68001044 | 67 | 69000378 | 34 | 69000468 | 37 |
| 68000883 | 53 | 68001045 | 67 | 69000379 | 34 | 69000469 | 37 |
| 68000884 | 53 | 68001046 | 67 | 69000380 | 34 | 69000471 | 37 |
| 68000888 | 53 | 68001047 | 23, 66, 67 | 69000381 | 34 | 69000480 | 23 |
| 68000889 | 53 | 68001048 | 23, 66, 67 | 69000382 | 34 | 69000481 | 27 |
| 68000894 | 52, 234 | 68001049 | 23, 66, 67 | 69000383 | | 69000483 | 23 |
| 68000895 | 52, 234 | 68001050 | 23, 66, 67 | 69000384 | 34 | 69000484 | 27 |
| | | 68001051 | | | 34 | | |
| 68000897 | 35 | | 23, 66, 67 | 69000385 | 34 | 69000485 | 27 |
| 68000900 | 34 | 68001052 | 27 | 69000386 | 34 | 69000491 | 47 |
| 68000901 | 47 | 68001053 | 27 | 69000387 | 34 | 69000493 | 23 |
| 68000903 | 32 | 68001054 | 27 | 69000388 | 34 | 69000494 | 23 |
| 68000904 | 32 | 68001055 | 27 | 69000390 | 34 | 69000495 | 23 |
| 68000905 | 32 | 68001063 | 23, 68 | 69000391 | 34 | 69000496 | 47 |
| 68000906 | 32 | 68001064 | 23, 68 | 69000392 | 34 | 69000499 | 98 |
| 68000917 | 53 | 68001065 | 23, 68 | 69000393 | 34 | 69000507 | 98 |
| 68000918 | 53 | 68001066 | 23, 68 | 69000394 | 34 | 69000508 | 98 |
| 68000919 | 47, 52 | 68001068 | 23 | 69000395 | 34 | 69000515 | 98 |
| 68000920 | 47, 52 | 68001069 | 23 | 69000396 | 34 | 69000544 | 97 |
| 68000928 | 53 | 68001070 | 23 | 69000397 | 34 | 69000545 | 97 |
| 68000929 | 53 | 68001071 | 23 | 69000400 | 32 | 69000546 | 97 |
| 68000930 | 53 | 68001072 | 23 | 69000401 | 32 | 69000547 | 97 |
| 68000932 | 37 | 68001073 | 23, 67 | 69000402 | 32 | 69000548 | 97 |
| 68000933 | 47, 52, 234 | 68001074 | 23, 67 | 69000403 | 32 | 69000549 | 97 |
| 68000934 | 47, 52, 234 | 68001075 | 23, 67 | 69000404 | 32 | 69000550 | 97 |
| 68000937 | 52 | 68001076 | 23, 67 | 69000405 | 32 | 69000551 | 97 |
| 68000938 | 52 | 68001077 | 23, 68 | 69000407 | 32 | 69000552 | 97 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------------------|------|----------------------|----------|----------------------|-------|----------------------|----------|
| | | | | | 11122 | | |
| 69000553 | 97 | 69100068 | 19 | 69120090 | 15 | 69120158 | 17 |
| 69000560 69000561 | 97 | 69100069 69120020 | 19 | 69120091 69120092 | 15 | 69120159 69120160 | 17 |
| | 97 | 69120021 | 15 | 69120093 | 15 | 69120161 | 17 |
| 69000585 69000586 | 97 | 69120022 | 15 | 69120094 | 15 | 69120162 | 17 |
| | 97 | | 15 | | 15 | | 17 |
| 69000608 | 99 | 69120023 | 15 | 69120095 | 15 | 69120163 | 17 |
| 69000609 | 99 | 69120024 | 15 | 69120096 | 15 | 69120190 | 17 |
| 69000610 | 99 | 69120025 | 15 | 69120097 | 15 | 69120191 | 17 |
| 69000641 | 39 | 69120026 | 15 | 69120100 | 15 | 69120192 | 17 |
| 69000642 | 39 | 69120027 | 15 | 69120101 | 15 | 69120193 | 17 |
| 69000643 | 39 | 69120030 | 15 | 69120102 | 15 | 69120194 | 17 |
| 69000644 | 39 | 69120031 | 15 | 69120103 | 15 | 69120195 | 17 |
| 69000645 | 39 | 69120032 | 15 | 69120104 | 15 | 69120196 | 17 |
| 69000646 | 39 | 69120033 | 15 | 69120105 | 15 | 69120197 | 17 |
| 69000807 | 50 | 69120034 | 15 | 69120106 | 15 | 69120198 | 17 |
| 69000819 | 55 | 69120035 | 15 | 69120107 | 15 | 69120199 | 17 |
| 69000940 | 49 | 69120036 | 15 | 69120110 | 15 | 69120200 | 17 |
| 69000941 | 49 | 69120037 | 15 | 69120111 | 15 | 69120201 | 17 |
| 69000942 | 49 | 69120040 | 15 | 69120112 | 15 | 69120202 | 17 |
| 69000943 | 49 | 69120041 | 15 | 69120113 | 15 | 69120203 | 17 |
| 69000944 | 49 | 69120042 | 15 | 69120114 | 15 | 69120204 | 17 |
| 69000945 | 49 | 69120043 | 15 | 69120115 | 15 | 69120205 | 17 |
| 69001015 | 51 | 69120044 | 15 | 69120116 | 15 | 69120206 | 17 |
| 69001016 | 51 | 69120045 | 15 | 69120117 | 15 | 69120207 | 17 |
| 69001017 | 51 | 69120046 | 15 | 69120120 | 15 | 69120208 | 17 |
| 69001018 | 51 | 69120047 | 15 | 69120121 | 15 | 69120209 | 17 |
| 69100020 | 11 | 69120050 | 15 | 69120122 | 15 | 69120210 | 17 |
| 69100021 | 11 | 69120051 | 15 | 69120123 | 15 | 69120211 | 17 |
| 69100022 | 11 | 69120052 | 15 | 69120124 | 15 | 69120212 | 17 |
| 69100023 | 11 | 69120053 | 15 | 69120125 | 15 | 69120213 | 17 |
| 69100024 | 11 | 69120054 | 15 | 69120126 | 15 | 69140001 | 41 |
| 69100025 | 11 | 69120055 | 15 | 69120127 | 15 | 69140002 | 41 |
| 69100026 | 11 | 69120056 | 15 | 69120130 | 15 | 69140003 | 41 |
| 69100027 | 11 | 69120057 | 15 | 69120131 | 15 | 69140004 | 41 |
| 69100030 | 11 | 69120060 | 15 | 69120132 | 15 | 69140005 | 41 |
| 69100031 | 11 | 69120061 | 15 | 69120133 | 15 | 69140006 | 41 |
| 69100032 | 11 | 69120062 | 15 | 69120134 | 15 | 69140007 | 41 |
| | | | | | | | |
| 69100033 | 11 | 69120063 69120064 | 15 15 | 69120135 | 15 | 69140008 | 41 41 |
| 69100034 | | | | 69120136 | 15 | 69140009 | |
| 69100035 | 11 | 69120065 | 15 | 69120137 | 15 | 69140010 | 41 |
| 69100036 | 11 | 69120066 | 15 | 69120140 | 17 | 69140011 | 41 |
| 69100037 | 11 | 69120067 | 15 | 69120141 | 17 | 69140012 | 41 |
| 69100050 | 13 | 69120070 | 15 | 69120142 | 17 | 69140030 | 41 |
| 69100051 | 13 | 69120071 | 15 | 69120143 | 17 | 69140031 | 41 |
| 69100052 | 13 | 69120072 | 15 | 69120144 | 17 | 69140032 | 41 |
| 69100053 | 13 | 69120073 | 15 | 69120145 | 17 | 69140033 | 41 |
| 69100054 | 13 | 69120074 | 15 | 69120146 | 17 | 69140034 | 41 |
| 69100055 | 13 | 69120075 | 15 | 69120147 | 17 | 69140035 | 41 |
| 69100056 | 13 | 69120076 | 15 | 69120148 | 17 | 69140036 | 41 |
| 69100057 | 13 | 69120077 | 15 | 69120149 | 17 | 69140037 | 41 |
| 69100060 | 13 | 69120080 | 15 | 69120150 | 17 | 69140038 | 41 |
| 69100061 | 13 | 69120081 | 15 | 69120151 | 17 | 69140039 | 41 |
| 69100062 | 13 | 69120082 | 15 | 69120152 | 17 | 69140040 | 41 |
| 69100063 | 13 | 69120083 | 15 | 69120153 | 17 | 69140041 | 41 |
| 69100064 | 13 | 69120084 | 15 | 69120154 | 17 | 69600533 | 45 |
| 69100065 | 13 | 69120085 | 15 | 69120155 | 17 | 69600534 | 45 |
| 69100066 | 13 | 69120086 | 15 | 69120156 | 17 | 69600537 | 45 |
| 69100067 | 13 | 69120087 | 15 | 69120157 | 17 | 69600538 | 45 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|----------|----------|----------|----------|-----------|------|-----------|----------|
| 69600541 | 45 | 89400035 | 386 | 89700265 | 377 | 291213305 | 340 |
| 69600542 | 45 | 89400046 | 386 | 89700266 | 377 | 291213308 | 340 |
| 69600544 | 45 | 89400047 | 386 | 89700267 | 377 | 291213315 | 338, 341 |
| 69600545 | 45 | 89400084 | 386 | 89700268 | 377 | 291213406 | 341 |
| 69600546 | 45 | 89400100 | 388 | 89700297 | 377 | 291213408 | 340 |
| 69600548 | 45 | 89400109 | 386, 390 | 89700298 | 377 | 291213412 | 341 |
| 82000356 | 369 | 89400120 | 386 | 89700299 | 377 | 291213501 | 341 |
| 82000357 | 369 | 89400133 | 390 | 89700300 | 377 | 291213537 | 341 |
| 89100078 | 361 | 89400136 | 390 | 89700301 | 377 | 291214305 | 342 |
| 89100090 | 361 | 89400137 | 390 | 89700375 | 377 | 291214308 | 342 |
| 89100091 | 361 | 89400146 | 390 | 89700376 | 377 | 291214537 | 342 |
| 39100092 | 361 | 89400283 | 389 | 89700377 | 377 | 291214815 | 343 |
| 39100093 | 361 | 89400284 | 389 | 89700406 | 377 | 291215305 | 342 |
| | 361 | 89400285 | 389 | | | 291215308 | |
| 89100094 | | | | 89700407 | 377 | | 342 |
| 89100095 | 361 | 89400286 | 389 | 89700408 | 377 | 291215537 | 342 |
| 39100096 | 361 | 89400316 | 390 | 89700520 | 377 | 291215815 | 343 |
| 89100100 | 361 | 89400365 | 389 | 89700521 | 377 | 291218805 | 342 |
| 89100102 | 362 | 89400420 | 389 | 89700593 | 377 | 291218806 | 338, 342 |
| 89100143 | 379 | 89400423 | 387 | 89700821 | 382 | 291218808 | 343 |
| 89100144 | 379 | 89400425 | 387 | 89700822 | 382 | 291218809 | 343 |
| 89100149 | 362 | 89400427 | 387 | 89700823 | 382 | 291218817 | 343 |
| 89101097 | 362 | 89400429 | 387 | 89700824 | 382 | 291218818 | 342 |
| 89101098 | 362 | 89400430 | 387 | 89700825 | 382 | 291218837 | 342 |
| 89101144 | 362 | 89400432 | 388 | 89700827 | 382 | 291219901 | 343 |
| 89101145 | 362 | 89400434 | 388 | 89700828 | 382 | 291219905 | 343 |
| 89101173 | 362 | 89400435 | 389 | 89700830 | 382 | 291219907 | 343 |
| 89101174 | 362 | 89400437 | 389 | 89700831 | 382 | 291219910 | 343 |
| 89300002 | 394 | 89400439 | 389 | 89700862 | 381 | 291219911 | 343 |
| 89300004 | 394 | 89400440 | 388 | 89700864 | 382 | 291222301 | 340 |
| 89300008 | 394 | 89400441 | 388 | 89700865 | 382 | 291223301 | 340 |
| 89300039 | 395 | 89400442 | 388 | 89700871 | 382 | 291223305 | 340 |
| 89300040 | 395 | 89400470 | 382 | 89700909 | 382 | 291223306 | 340 |
| 89300054 | 395 | 89400471 | 382 | 89700910 | 382 | 291223308 | 340 |
| 89300060 | 395 | 89400472 | 382 | 89700911 | 382 | 291223315 | 341 |
| 89300064 | 395 | 89400473 | 382 | 89700913 | 382 | 291223406 | 341 |
| 89300070 | 395 | 89400475 | 382 | 89700914 | 382 | 291223408 | 340 |
| 89300076 | | 89400476 | 382 | 89700915 | 382 | 291223412 | 340 |
| | 395 | | | | | | |
| 89300109 | 395 | 89400479 | 382 | 89700917 | 382 | 291223415 | 338, 341 |
| 89300117 | 395 | 89500002 | 369 | 89700918 | 382 | 291223501 | 341 |
| 89300123 | 395 | 89500005 | 369 | 89700919 | 382 | 291223537 | 341 |
| 89300127 | 394 | 89500008 | 369 | 89700921 | 382 | 291223601 | 341 |
| 89300129 | 395 | 89500011 | 369 | 89700922 | 382 | 291223606 | 341 |
| 89300136 | 392, 395 | 89500012 | 369 | 89700923 | 382 | 291224305 | 342 |
| 89300137 | 395 | 89500013 | 369 | 89700924 | 382 | 291224308 | 342 |
| 89300138 | 395 | 89500014 | 369 | 89700926 | 382 | 291224537 | 342 |
| 89300152 | 395 | 89700024 | 377 | 89800013 | 390 | 291224815 | 343 |
| 89300163 | 395 | 89700025 | 377 | 89800053 | 379 | 291225305 | 342 |
| 39300166 | 395 | 89700063 | 377 | 89800123 | 379 | 291225308 | 342 |
| 39300169 | 395 | 89700092 | 377 | 89900003 | 383 | 291225537 | 342 |
| 89300170 | 395 | 89700093 | 377 | 89900014 | 384 | 291225815 | 343 |
| 39300180 | 395 | 89700094 | 377 | 89900031 | 383 | 291228805 | 342 |
| 89300186 | 395 | 89700095 | 377 | 89900034 | 384 | 291228806 | 338, 342 |
| 39300203 | 392, 395 | 89700096 | 377 | 89900046 | 383 | 291228808 | 343 |
| 89300230 | 395 | 89700097 | 377 | 89900052 | 384 | 291228809 | 343 |
| 39400000 | 390 | 89700098 | 377 | 89900299 | 385 | 291228817 | 343 |
| 89400001 | 390 | 89700161 | 379 | 89900302 | 385 | 291228818 | 342 |
| 89400031 | 386 | 89700162 | 379 | 89900306 | 385 | 291228837 | 342 |
| 89400033 | 386 | 89700264 | 377 | 291213301 | 340 | 291229901 | 343 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|------------------------|------------|------------------------|------------|------------------------|------------|------------------------|------------|
| | | | 11.52 | | 11.52 | | |
| 291229905 | 343 | 360867999 | 163 | 361196992 | 161 | 367654252 | 161 |
| 291229907 | 343 | 360868999 | 163 | 361206999 | 162 | 367660252 | 161 |
| 291229910 | 343 | 360869999 | 163 | 361207999 | 162 | 367665252 | 161 161 |
| 291229911 | 343 162 | 360870999 | 163 163 | 361263999 | 162 163 | 367670252 | 186 |
| 360060990 | 162 | 360871999 | 163 | 361446999 | | 367700300 367710100 | 181 |
| 360255990 360255992 | 162 | 360872999 360873999 | 163 | 361590999 361591999 | 163 163 | 367710150 | 187 |
| 360256990 | 162 | 360874999 | 163 | 361592999 | 163 | 367710200 | 185 |
| 360256992 | 162 | 360875999 | 163 | 361594999 | 163 | 367710300 | 186 |
| 360259990 | 161 | 360876999 | 163 | 361595999 | 163 | 367710400 | 183 |
| 360271990 | 162 | 360917990 | 162 | 361596999 | 163 | 367720100 | 181 |
| 360272990 | 162 | 360918299 | 163 | 361597999 | 163 | 367720150 | 187 |
| 360273990 | 162 | 360918992 | 161 | 361598999 | 163 | 367720200 | 185 |
| 360360999 | 174 | 360918999 | 161 | 361680990 | 162 | 367720400 | 183 |
| 360361999 | 174 | 360919990 | 162 | 361680992 | 162 | 367730100 | 181 |
| 360362999 | 174 | 360919992 | 162 | 361724029 | 178 | 367730150 | 187 |
| 360363999 | 174 | 360924990 | 162 | 361724829 | 178 | 367730200 | 185 |
| 360370999 | 163 | 360924992 | 162 | 361725029 | 178 | 367730300 | 186 |
| 360370999 | 163 | 360925999 | 162 | 361725829 | 178 | 367730400 | 183 |
| 360372999 | 163 | 360926999 | 162 | 361726029 | 178 | 367740100 | 181 |
| 360372999 | 163 | 360959999 | 163 | 361726829 | 178 | 367740150 | 187 |
| 360374999 | 163 | 360960999 | 163 | 361727029 | 178 | 367740200 | 185 |
| 360375999 | 163 | 360961999 | 163 | 361727829 | 178 | 367740300 | 186 |
| 360376999 | 163 | 360962999 | 163 | 361728029 | 178 | 367740400 | 183 |
| 360377999 | 163 | 360963999 | 163 | 361799999 | 168 | 367741100 | 181 |
| 360378999 | 163 | 360964999 | 163 | 361800999 | 168 | 367744100 | 181 |
| 360379999 | 163 | 360965999 | 163 | 361894999 | 163 | 367744150 | 187 |
| 360380999 | 163 | 360966999 | 163 | 361899990 | 161 | 367744200 | 185 |
| 360381999 | 163 | 360968999 | 163 | 361899991 | 161 | 367744400 | 183 |
| 360382999 | 163 | 361009009 | 178 | 367110936 | 178 | 367745300 | 186 |
| 360383999 | 163 | 361010999 | 178 | 367130936 | 178 | 367750100 | 181 |
| 360532009 | 178 | 361027999 | 162 | 367132936 | 178 | 367750150 | 187 |
| 360533009 | 178 | 361041990 | 161 | 367140936 | 178 | 367750200 | 185 |
| 360534009 | 178 | 361041992 | 161 | 367160936 | 178 | 367750400 | 183 |
| 360684009 | 178 | 361044999 | 162 | 367302936 | 178 | 367754100 | 181 |
| 360686009 | 178 | 361050900 | 163 | 367312936 | 178 | 367754150 | 187 |
| 360750009 | 178 | 361051900 | 163 | 367318936 | 178 | 367754200 | 185 |
| 360751009 | 178 | 361052900 | 163 | 367318966 | 178 | 367754400 | 183 |
| 360752009 | 178 | 361053900 | 163 | 367322936 | 178 | 367760100 | 181 |
| 360753009 | 178 | 361054900 | 163 | 367332936 | 178 | 367760150 | 187 |
| 360754009 | 178 | 361055900 | 163 | 367342936 | 178 | 367760200 | 185 |
| 360755009 | 178 | 361056900 | 163 | 367352936 | 178 | 367760400 | 183 |
| 360756009 | 178 | 361057900 | 163 | 367378936 | 178 | 367770100 | 181 |
| 360757009 | 178 | 361058900 | 163 | 367378966 | 178 | 367770150 | 187 |
| 360758999 | 178 | 361059900 | 163 | 367382966 | 178 | 367770200 | 185 |
| 360759999 | 178 | 361060900 | 163 | 367400252 | 161 | 367770400 | 183 |
| 360760999 | 178 | 361062900 | 163 | 367403252 | 161 | 367780100 | 181 |
| 360761999 | 178 | 361063900 | 163 | 367410252 | 161 | 393010262 | 171 |
| 360762999 | 178 | 361064900 | 163 | 367420252 | 161 | 393020200 | 173 |
| 360763999 | 178 | 361065900 | 163 | 367441252 | 161 | 393020262 | 171 |
| 360765999 | 178 | 361130900 | 163 | 367618252 | 161 | 393029800 | 169 |
| 360860999 | 163 | 361131900 | 163 | 367620252 | 161 | 393029802 | 169 |
| 360861999 | 163 | 361132900 | 163 | 367622252 | 161 | 393110262 | 171 |
| 360862999 | 163 | 361133900 | 163 | 367630252 | 161 | 393120200 | 173 |
| 360863999 | 163 | 361134900 | 163 | 367640252 | 161 | 393120262 | 171 |
| 360864999 | 163 | 361135900 | 163 | 367644252 | 161 | 393129800 | 169 |
| 360865999 | 163 | 361136900 | 163 | 367650252 | 161 | 393129802 | 169 |
| 360866999 | 163 | 361137900 | 163 | 367651252 | 161 | 393170262 | 171 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|------------|------|------------|----------|------------|----------------------------------|-------------|------------|
| 393180200 | 173 | 6672012001 | 22 | 29101312BK | 351 | 29171046вк | 336 |
| 393180262 | 171 | 6672012002 | 22 | 29101410BK | 351 | 29172040BK | 335 |
| 393220200 | 173 | 6672021000 | 22 | 29101412BK | 351 | 29172046ВК | 336 |
| 393320200 | 173 | 6672021001 | 22 | 29101414BK | 351 | 29173040BK | 335 |
| 393329800 | 169 | 6672021002 | 22 | 29101501BK | 351 | 29173046ВК | 336 |
| 393420200 | 173 | 6672021003 | 22 | 29102410BK | 351 | 29330105BK | 324 |
| 393429800 | 169 | 6672021006 | 22 | 29102412BK | 351 | 29330107BK | 324 |
| 393440200 | 173 | 6672022001 | 22 | 29102414BK | 351 | 29331153BK | 319 |
| 393460200 | 173 | 6672022002 | 22 | 29103410BK | 351 | 29332259BK | 319 |
| 393520200 | 173 | 6672211000 | 22 | 29103412BK | 351 | 293712320BK | 349 |
| 393529800 | 169 | 6672211001 | 22 | 29103414BK | 351 | 293712321BK | 349 |
| 393770262 | 171 | 6672211002 | 22 | | | 293712322BK | 349 |
| 393780200 | 173 | 6672211003 | 22 | 29104100BK | 293, 297, 303, 325, 354, 295, | 293712330BK | 349 |
| 393780262 | 171 | 6672212001 | 22 | | 297, 303, 354 | 293712331BK | 349 |
| 393810862 | 171 | 6672212002 | 22 | 29104104BK | 354 | 293712332BK | 349 |
| 393820862 | 171 | 6672212003 | 22 | 29104114BK | 354 | 293712340BK | 349 |
| 399100303 | 144 | 6672221000 | 22 | 29139112BK | 353 | 293712341BK | 349 |
| 399104924 | 137 | 6672221001 | 22 | 29139113BK | 353 | 293712342BK | 349 |
| 399104924 | 137 | 6672221002 | 22 | 29139113BK | 353 | 293/12342BK | 349 |
| | | 6672221003 | 22 | | | 29421366ВК | |
| 399204924 | 137 | 6672222001 | 22 | 29139115BK | 353 | 29421400BK | 331 328 |
| 399204996 | 137 | | | 29139116BK | 353 | | |
| 399300303 | 144 | 6672222002 | 22 | 29139122BK | 353 | 29422300BK | 328 |
| 399304923 | 137 | 6672222003 | 22 | 29139123BK | 353 | 29422400BK | 328 |
| 399304995 | 137 | 68001166 | 39 | 29139124BK | 353 | 29423301BK | 328 |
| 399400303 | 144 | 68001167 | 39 | 29139125BK | 353 | 29423400BK | 328 |
| 399414924 | 137 | 68001168 | 39 | 29139126BK | 353 | 29431300BK | 328 |
| 399414996 | 137 | 0056503W | 91 | 29160315BK | 323 | 29431311BK | 329 |
| 399440303 | 144 | 0056504W | 91 | 29160405ВК | 323 | 29431312BK | 329 |
| 399441910 | 138 | 0056505W | 91 | 29160410BK | 323 | 29431315BK | 329 |
| 399441999 | 138 | 0056506W | 91 | 29160415BK | 323 | 29431316BK | 330 |
| 399444923 | 137 | 0056507W | 91 | 29161115BK | 327 | 29431337BK | 330 |
| 399444995 | 137 | 0056508W | 91 | 29161415BK | 323 | 29431400BK | 328 |
| 399500303 | 144 | 0056509W | 91 | 29161420BK | 323 | 29431411BK | 329 |
| 399540303 | 144 | 0056510W | 91 | 29161430BK | 323 | 29431412BK | 329 |
| 399544923 | 137 | 0056511W | 91 | 29161510BK | 323 | 29431415BK | 329 |
| 399544995 | 137 | 0056513W | 91 | 29161515BK | 323 | 29431416BK | 330 |
| 399600303 | 144 | 0056515W | 91 | 29161520BK | 323 | 29431500BK | 332 |
| 399601910 | 138 | 0056530W | 91 | 29162115BK | 323 | 29431712BK | 329 |
| 399601999 | 138 | 0056540W | 91 | 29162118BK | 327 | 29431814BK | 330 |
| 399604923 | 137 | 0056550W | 91 | 29162120BK | 323 | 29431834ВК | 330 |
| 399604995 | 137 | 0056560W | 91 | 29162130BK | 323 | 29431916вк | 327, 331 |
| 399701910 | 138 | 28003225BK | 336 | 29162315BK | 323 | 29432300BK | 328 |
| 399701999 | 138 | 28003226ВК | 336 | 29162320BK | 323 | 29432311BK | 329 |
| 399704923 | 137 | 29020701BK | 324 | 29162415BK | 323 | 29432312BK | 329 |
| 399704995 | 137 | 29030100BK | 324, 325 | 29162420BK | 323 | 29432315BK | 329 |
| 668400691 | 99 | 29030600ВК | 324 | 29162430ВК | 323 | 29432316ВК | 330 |
| 897000925 | 382 | 29040100BK | 325 | 29162515BK | 323 | 29432372BK | 329 |
| 6630331312 | 47 | 29040600ВК | 325 | 29162520ВК | 323 | 29432400BK | 328 |
| 6630332312 | 47 | 29060152ВК | 325 | 29163315ВК | 323 | 29432411BK | 329 |
| 6670011108 | 24 | 29100010BK | 351 | 29163320ВК | 323 | 29432412BK | 329 |
| 6671011000 | 22 | 29101108BK | 351 | 29163330ВК | 323 | 29432415BK | 329 |
| 6671011001 | 22 | 29101110BK | 351 | 29163615ВК | 323 | 29432416вк | 330 |
| 6671011006 | 22 | 29101112BK | 351 | 29163620ВК | 323 | 29432420BK* | 328 |
| 6672011000 | 22 | 29101208ВК | 351 | 29163630ВК | 323 | 29432424BK | 329 |
| 6672011001 | 22 | 29101210BK | 351 | 29170030ВК | 325 | 29432500ВК | 332 |
| 6672011002 | 22 | 29101212BK | 351 | 29170033BK | 325 | 29432511BK | 333 |
| 6672011003 | 22 | 29101308вк | 351 | 29170040BK | 325 | 29432512BK | 333 |
| 6672011006 | 22 | 29101300BK | 351 | 29171040BK | 335 | 29432512BK | 330 |

| PART NO | PAGE | PART NO | PAGE | PART NO | PAGE | PART NO | PAGE |
|--------------------------|------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|
| 0.6711 | | | 6 | C-11 | | | |
| 29432816BK 29432822BK | 331 331 | 29471042BK 29471063BK | 336 335 | 29901426BK 29901428BK | 293 293 | 29903452BK | 345 334 |
| 29432823BK | 331 | 29471836вк | 335 | 29901429BK | 293 | 29905105BK 29905200BK | 334 |
| 29432832ВК | 331 | 29472011BK | 336 | 29901430BK | 294 | 29905400ВК | 345 |
| 29432833ВК | 331 | 29472012BK | 336 | 29901441BK | 293 | 29905401BK | 345 |
| 29432836вк | 330 | 29472015BK | 336 | 29901447BK | 294 | 29906171BK | 310 |
| 29432838BK | 331 | 29472018BK | 336 | 29901460ВК | 294 | 29906172ВК | 310 |
| 29433300BK | 328 | 29472030BK | 334 | 29901463BK | 294 | 29906601ВК | 310 |
| 29433314BK | 329 | 29472031BK | 334 | 29901600ВК | 307 | 29906602ВК | 310 |
| 29433400BK | 328 | 29472035BK | 334 | 29901611BK | 307 | 29906621ВК | 310 |
| 29433414BK | 329 | 29472036ВК | 335 | 29901612BK | 308 | 29906622ВК | 310 |
| 29433416BK | 330 | 29472037BK | 335 | 29901614BK | 307 | 29906801ВК | 310 |
| 29433602ВК | 329 | 29472038вк | 334 | 29901615BK | 308 | 29906802ВК | 310 |
| 29433604BK | 329 | 29472041BK | 336 | 29901624ВК | 309 | 29906821ВК | 310 |
| 29433832ВК | 331 | 29472042BK | 336 | 29901631ВК | 309 | 29906822ВК | 310 |
| 29433833BK | 331 | 29472062ВК | 335 | 29901634ВК | 309 | 29913310BK | 349 |
| 29441301BK | 331 | 29472063ВК | 335 | 29901639ВК | 309 | 29913311BK | 349 |
| 29441311BK | 332 | 29472076вк | 335 | 29901647ВК | 312 | 29913313BK | 349 |
| 29441312BK | 332 | 29472501BK | 334 | 29901661ВК | 295 | 29915075BK | 349 |
| 29441321BK | 332 | 29472535BK | 334 | 29901665ВК | 295 | 29916042ВК | 353 |
| 29441322BK | 332 | 29472616вк | 335 | 29901667ВК | 295 | 29916060ВК | 353 |
| 29441331BK | 332 | 29472836вк | 335 | 29901668вк | 295 | 29917420BK | 345 |
| 29441332BK | 332 | 29473030BK | 334 | 29901670ВК | 295 | 29917430BK | 345 |
| 29441345BK | 332 | 29473032BK | 335 | 29901807ВК | 312 | 29917440BK | 345 |
| 29441500BK | 333 | 29473035BK | 334 | 29901811BK | 307 | 29917450BK | 345 |
| 29441513BK | 333 | 29473036вк | 335 | 29901812BK | 308 | 29925001BK | 298 |
| 29441701BK | 335 | 29473037BK | 335 | 29901813BK | 308 | 29925002BK | 298 |
| 29441723BK | 332 | 29473037CBK | 335 | 29901814BK | 307 | 29925003BK | 298 |
| 29442301BK | 331 | 29473041BK | 336 | 29901815BK | 308 | 29925004BK | 298 |
| 29442311BK | 332 | 29473063ВК | 335 | 29901816вк | 309 | 29925005BK | 298 |
| 29442312BK | 332 | 29473135BK | 334 | 29901821BK | 308 | 29925009ВК | 298 |
| 29442321BK | 332 | 29473136вк | 335 | 29901822ВК | 309 | 29925010BK | 298 |
| 29442322BK | 332 | 29901107BK | 312 | 29901824ВК | 309 | 29925021BK | 299 |
| 29442331BK | 332 | 29901301BK | 293 | 29901825ВК | 308 | 29925031BK | 298 |
| 29442332BK | 332 | 29901314BK | 293 | 29901828вк | 308 | 29925034BK | 299 |
| 29442345BK | 332 | 29901320BK | 292 | 29901829ВК | 308 | 29925037ВК | 299 |
| 29442412BK | 333 | 29901321BK | 292 | 29901830ВК | 309 | 29925039ВК | 299 |
| 29442500BK | 333 | 29901322BK | 292 | 29901831BK | 309 | 29926001ВК | 298 |
| 29442701BK | 335 | 29901323BK | 292 | 29901834ВК | 309 | 29926002ВК | 298 |
| 29442723BK | 332 | 29901324BK | 292 | 29901839вк | 309 | 29926003ВК | 298 |
| 29443311BK | 332 | 29901325BK | 292 | 29902100BK | 313 | 29926004ВК | 298 |
| 29443611BK | 332 | 29901326вк | 293 | 29902101BK | 313 | 29926005ВК | 298 |
| 29443700ВК | 333 | 29901328вк | 293 | 29902108ВК | 314 | 29926010ВК | 298 |
| 29443700СВК | 333 | 29901330ВК | 294 | 29902109BK | 314 | 29926021ВК | 299 |
| 29443701BK | 335 | 29901341BK | 293 | 29902131BK | 313 | 29926031ВК | 298 |
| 29443702BK | 333 | 29901360ВК | 294 | 29902138ВК | 314 | 29926034ВК | 299 |
| 29461354ВК | 327, 338 | 29901361ВК | 294 | 29902139BK | 314 | 29926037ВК | 299 |
| 29471011BK | 336 | 29901362ВК | 294 | 29902151BK | 313 | 29926039ВК | 299 |
| 29471012BK | 336 | 29901363ВК* | 294 | 29902158вк | 314 | 29926061ВК | 300 |
| 29471015BK | 336 | 29901365ВК | 294 | 29902159BK | 314 | 29926064ВК | 300 |
| 29471018BK | 336 | 29901401BK | 293 | 29902178вк | 314 | 29927201BK | 298 |
| 29471030BK | 334 | 29901411BK | 294 | 29902179ВК | 314 | 29927202BK | 298 |
| 29471031BK | 334 | 29901420BK | 292 | 29902208вк | 314 | 29927203BK | 298 |
| 29471032BK | 327, 335 | 29901421BK | 292 | 29902209ВК | 314 | 29927204BK | 298 |
| 29471035BK | 334 | 29901422BK | 292 | 29902800ВК | 313 | 29927205BK | 298 |
| 29471036ВК | 335 | 29901423BK | 292 | 29902808вк | 314 | 29927210BK | 298 |
| 29471037BK | 335 | 29901424BK | 292 | 29902809ВК | 314 | 29927221BK | 299 |
| 29471041BK | 336 | 29901425BK | 292 | 29903451BK | 345 | 29927231BK | 298 |

| 1 | | | |
|----------------|---------------|----------------|----------|
| PART NO | PAGE | PART NO | PAGE |
| 29927234BK | 299 | 6656411198-311 | 43 |
| 29927237ВК | 299 | 6656411199-311 | 43 |
| 29927239ВК | 299 | 6656811967-303 | 44 |
| 29927261BK | 300 | 6657011108-102 | 43 |
| 29927264ВК | 300 | 6657011198-311 | 43 |
| 29929001BK | 298 | 6657011967-311 | 43 |
| 29929002BK | 298 | 6670011108-312 | 24 |
| 29929003BK | 298 | 6671011107-138 | 26 |
| 29929004ВК | 298 | 6671011196-138 | 26 |
| 29929021BK | 299 | 6671011197-138 | 26 |
| 29929031BK | 298 | 6671011198-138 | 26 |
| 29929034ВК | 299 | 6672011108-138 | 26 |
| 29929039ВК | 299 | 6672011110-138 | 26 |
| 29929061ВК | 300 | 6672011196-138 | 26 |
| 29929064ВК | 300 | 6672011197-138 | 26 |
| 29941100BK | 311 | 6672011198-138 | 26 |
| 29941101BK | 311 | 6672012108-140 | 26 |
| 29941104BK | 311 | 6672012198-140 | 26 |
| 29941130BK | 311 | 6672021108-138 | 26 |
| 29941131BK | 311 | 6672021110-138 | 26 |
| 29941134BK | 311 | 6672021196-138 | 26 |
| 29941150BK | 311 | 6672021197-138 | 26 |
| 29941151BK | 311 | 6672021198-138 | 26 |
| 29941154BK | 311 | 6672022108-140 | 26 |
| 29941408IF | 319 | 6672022198-140 | 26 |
| 29941600BK | 311 | 6672211108-139 | 26 |
| 29941611BK | 311 | 6672211110-139 | 26 |
| 29941612BK | 312 | 6672211197-139 | 26 |
| 29941613BK | 312 | 6672211198-139 | 26 |
| 29941614BK | 311 | 6672212108-142 | 26 |
| 29941615ВК | 312 | 6672212110-142 | 26 |
| 29941800ВК | 307, 311 | 6672212198-142 | 26 |
| 29941801BK | 311 | 6672221108-139 | 26 |
| 29941802BK | 312 | 6672221110-139 | 26 |
| 29941804BK | 311 | 6672221197-139 | 26 |
| 29941805BK | 312 | 6672221198-139 | 26 |
| 29941808вк | 312 | 6672222108-142 | 26 |
| 29941831ВК | 312 | 6672222110-142 | 26 |
| 29941834ВК | 312 | 6672222198-142 | 26 |
| 29942010IF | 319 | 69000383м | 34 |
| 29942601ВК | 309, 313 | 69000384М | 34 |
| 29943012IF | 319 | 69000444M | 34 |
| 29946101BK | 313 | 69000445М | 34 |
| 29946102BK | 313 | 69000500 | 98 |
| 29946131BK | 313 | 69000504 | 98 |
| 29946132BK | 313 | 69000506 | 98 |
| 29946151BK | 313 | 69000509 | 98 |
| 29946152ВК | 313 | 69000510 | 98 |
| 29946611BK | 313 | 89400002 | 390 |
| 29946612BK | 313 | B11126 | 125, 126 |
| 29946801ВК | 313 | B11127 | 126 |
| 29946802ВК | 313 | B11128 | 126 |
| 36168099* | 162 | B11129 | 126, 127 |
| 529-075 | 76 | B11130 | 126 |
| 559017A | 121, 122, 126 | B11762 | 127 |
| 589007 | 121, 123 | B12373 | 121 |
| 6656011967-310 | 43 | B12526 | 124, 125 |
| 3307 310 | 73 | B13336 | 121 |

| PART NO | PAGE |
|-------------|------|
| B15279 | 121 |
| B15282 | 121 |
| B15283 | 121 |
| B15284 | 121 |
| B17198 | 121 |
| B8429 | 127 |
| HM10HT200PX | 100 |
| HM15H300PX | 100 |
| HM15HT300PX | 100 |
| R19-050 | 361 |
| SWIVEL312F* | 99 |
| SWIVEL500F* | 99 |
| SWIVEL6* | 99 |

NOTES: www.lewmar.com

NOTES:

Limited Warranty and Key Terms of supply by Lewmar

Lewmar warrants that in normal private pleasure boat usage and with proper maintenance its products will conform with their specification for a period of three years from the date of purchase by the end user, subject to the conditions, limitations and exceptions listed below. Any product, which proves to be defective in normal usage during that three-year period, will be repaired or, at Lewmar's option, replaced by Lewmar.

A CONDITIONS AND LIMITATIONS

- i Lewmar's liability shall be limited to the repair or replacement of any parts of the product which are defective in materials or workmanship.
- ii Responsibility for the selection of products appropriate for the use intended by the Buyer shall rest solely with the Buyer and Lewmar accepts no responsibility for any such selection.
- iii Lewmar shall not be liable in any way for Product failure, or any resulting loss or damage which arises from:
- use of a product in an application for which it was not designed or intended:
- **b.** corrosion, ultra violet degradation or wear and tear:
- a failure to service or maintain the product in accordance with Lewmar's recommendations;
- **d.** Faulty or deficient installation of the product (unless conducted by Lewmar);
- **e.** any modification or alteration of the product;
- **f.** conditions that exceed the product's performance specifications or Working Load Limits.
- iv Product subject to a warranty claim must be returned to the Lewmar outlet which supplied the product for examination unless otherwise agreed by Lewmar in writing.
- This warranty does not cover any incidental costs incurred for the investigation, removal, carriage, transport or installation of product.
- vi Service by anyone other than authorised Lewmar representatives shall void this warranty unless it accords with Lewmar guidelines and standards of workmanship.
- vii Lewmar's products are intended for use only in the marine environment. Buyers intending to use them for any other purpose should seek independent professional advice as to their suitability. Lewmar accepts

no liability arising from such other use.

B EXCEPTIONS

Cover under this Warranty is limited to a period of one year from the date of purchase by the end user in the case of any of the following products or parts of products:

- Electric motors and associated electrical equipment
- Electronic controls
- Hydraulic pumps, valves and actuators
- Weather seals
- Products used in "Grand Prix" racing applications
- Products used in commercial and charter applications
- Anchor rodes

C LIABILITY

- i Lewmar's liability under this warranty shall be to the exclusion of all other warranties or liabilities (to the extent permitted by law). In particular (but without limitation):
- a. Lewmar shall not be liable for:
- Any loss of anticipated turnover or profit or indirect, consequential or economic loss;
- Damages, costs or expenses payable to any third party;
- Any damage to yachts or equipment;
- Death or personal Injury (unless caused by Lewmar's negligence).

Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

- **b.** Lewmar grants no other warranties regarding the fitness for purpose, use, nature or satisfactory quality of the products.
- ii Where applicable law does not permit a statutory or implied warranty to be excluded, then such warranty, if permitted by that state or country's law, shall be limited to

a period of one year from the date of purchase by the end user. Some states and countries do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.

D PROCEDURE

Notice of a claim for service under this warranty shall be made promptly and in writing by the end user to the Lewmar outlet which supplied the product or to Lewmar Limited at Southmoor Lane, Havant, Hampshire PO9 1JJ, England.

E SEVERANCE CLAUSE

If any clause of this warranty is held by any court or other competent authority to be invalid or unenforceable in whole or in part, the validity of the remaining clauses of this warranty and the remainder of the clause in question shall not be affected.

F OTHER RIGHTS

This warranty gives you specific legal rights, and you may also have other legal rights, which vary, from state to state and country to country.

In the case of European States a Consumer customer (as defined nationally) has legal rights under the applicable national law governing the sale of Consumer Goods; this Warranty does not affect those rights.

G LAW

This warranty shall be governed by and read in accordance with the laws of England or the state or country in which the first end user is domiciled at the time of purchase of the product.

H DISPUTES

Any dispute arising under this warranty may, at the option of the end-user, be referred to alternative dispute resolution under the rules of the British Marine Federation or to the Courts of the State whose law shall govern the warranty or to the Courts of England and Wales.

The British Marine Federation may be contacted at

Marine House, Thorpe Lea Road, Egham, England, TW20 8BF



LEWMAR[®]

UK Headquarters & International Distribution

Southmoor Lane Havant Hampshire PO9 IJJ, UK

Tel: +44 (0)23 9247 1841
Email: info@lewmar.com
Tech Support Email: techsupport@lewmar.com

www.lewmar.com









USA

351 New Whitfield Street Guilford, CT 06437 USA

Tel: +1 203 458 6200
Email: info@lewmar.com
Tech Support Email: ustechsupport@lewmar.com