



SOUTHERN



SEAS

MARINE

—Since 2002—

20  
19

CATALOGUE

4TH EDITION

## About Us



**Southern Seas Marine was first established in 2002 and underwent new ownership in 2017, bringing fresh, new ideas and technology but continuing the rock solid customer service and reliable reputation that has been instilled for the past 16 years.**

**Located in the Gold Coast Marine Precinct and supplying reliable brands such as Max Power boat thrusters, Lofrans anchor management, B&G and Simrad electronics, Spectra and Katadyn watermakers, Goiot hatches and portlights, Garhauer Deck hardware, Sea Sure Transom dinghy fittings, Watt & Sea Hydrogenerator plus Sani Marin & Lavac Head Toilets. We ensure that all your boating needs are met.**

**Southern Seas Marine team of competent sales and office team members can assist you with any needs you require and if you can't find what you are looking for then we can strive to source it for you.**

**We supply Australia, New Zealand and Asia, have a look through our catalogue for the full range of products and distribution lines.**







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# LPG cylinders for the 21st century

Southern Seas Marine presents a break through in LPG cylinder design. Using advanced technology we have created a transparent composite cylinder with some amazing advantages over traditional cylinders.

**Visible gas level:** the transparent feature enables the user to see the gas level through the wall of the tank, therefore removing the risk of unexpectedly running out of gas during use.

**Lightweight and ergonomic:** the unique composite construction makes our cylinders lighter and easier to handle. When empty, the cylinder weighs about 50% less than a comparable metal cylinder.

**Non Corrosive:** the composite materials do not corrode therefore the cylinder will not leave rust stains in your vehicle, boat or on the patio.

**Safety:** extensive testing by independent laboratories and fire authorities have shown that the cylinder when attacked by fire will react with a controlled burnout and will not explode.

**UV- Protection:** special additives are included in the cylinders to prevent degrading over time from weather conditions.

Meets standard AS/2030/EN12245

Order Number	GCC5	GCC75	GCC10
Propane capacity	5kg	7.5kg	10kg
Butane Capacity	6kg	8.5kg	12kg
Water capacity	12.5 litres	18.2 litres	23.8 litres
Overall Height	384mm	460mm	587mm
Diameter	305mm	305mm	305mm
Tare weight	4 kg	4.6kg	6.3kg

Pressure Ratings:	
Service pressure	20 Bar/ 294 psi
Test pressure	30 Bar/ 441 psi
Required burst pressure	60 Bar/ 882 psi
Actual burst pressure	150 Bar/ 2200 psi



## Prism Polish

Prism Polish has been formulated to clean, polish and protect all metals in one easy application. Our protective coating is designed to last 3 to 6 months. Prism Polish contains no harsh acids, caustics or abrasives. It is safe to use on all metals fiberglass, gel-coat, plexiglass and painted surfaces. Prism Polish has been developed for use in the marine, aviation, automotive, motorcycle and maintenance industries. Use Prism Polish on bronze, brass, copper, stainless steel, aluminum, pewter, nickel, sterling silver, silver plate and factory blued guns. It offers the finest protection available for any chrome or stainless surface. It cleans and protects in one easy application. It restores tarnished and dull surfaces and protects against salt corrosion and rusting. Prism Polish is excellent to clean and deoxidize fiberglass, it removes cloudiness from plexiglass, clear vinyl, eisenglass or lexan.



	Order Number
<b>Polish 6oz</b>	PP06
<b>Polish 16oz</b>	PP16
<b>Mirage 16oz</b>	MSP16





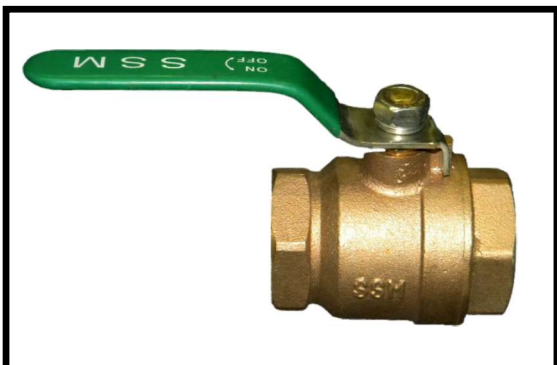
# Plumbing & Hardware



## Skin Fitting Bronze

These skin fittings are cast in high quality Marine Bronze and are designed to be installed through the hull for any general water supply or outlet purpose, to fit standard sizes.

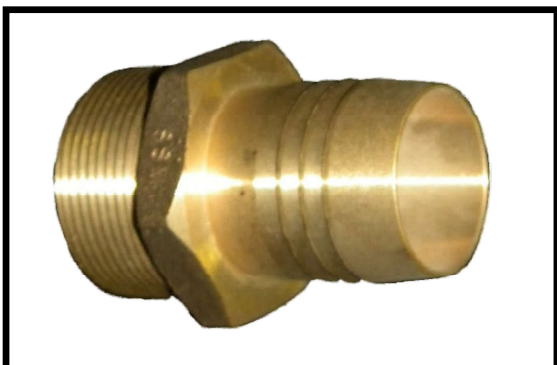
Part No.	Bore	Thread size	O/A Length
P283	13mm	½ BSP	65mm
P284	19mm	¾ BSP	74mm
P286	25mm	1 BSP	71mm
P287	32mm	1 ¼ BSP	80mm
P288	38mm	1 ½ BSP	80mm
P289	50mm	2 BSP	107mm
P290	65mm	2 ½ BSP	
P291	80mm	3 BSP	



## Ball Valve Bronze

Bronze ball valves with Stainless steel handle and nut. BSP threaded both ends.

Part No.	Size	Thread Size
V1012	13mm	½ BSP
V1013	19mm	¾ BSP
V1014	25mm	1 BSP
V1015	32mm	1 ¼ BSP
V1016	38mm	1 ½ BSP
V1017	50mm	2 BSP



## Hose Connections Bronze

These fittings are cast in high quality marine bronze and are particularly suited for adapting ball valves and deck fillers for use with flexible hose.

Part No.	Thread	Hose
P561	½ BSP	13mm
P547	¾ BSP	19mm
P548	1 BSP	25mm
P545	1 ¼ BSP	32mm
P502	1 ½ BSP	38mm
P578	2 BSP	50mm



## Hex Nipple Bronze

Part No.	Thread
I5080012	½ BSP
I5080020	¾ BSP
I5080025	1 BSP
I5080032	1 ¼ BSP
I5080038	1 ½ BSP
I5080050	2 BSP



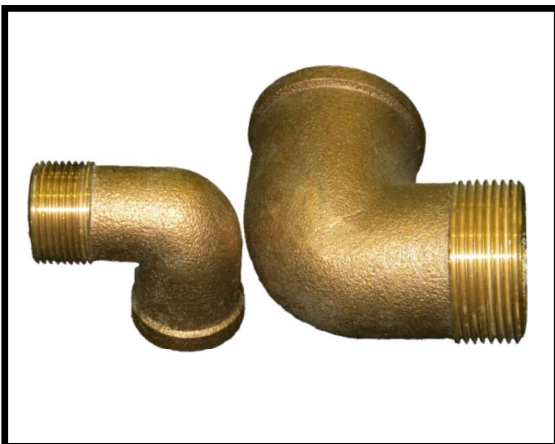
## Male Hose Elbow Bronze

Part No.	Size
V2221	¾ male BSP x ¾ hose
V2222	1 male BSP x 1 hose
V2223	1 ¼ male BSP x 1 ¼ hose
V2224	1 ½ male BSP x 1 ½ hose
V2225	2 male BSP x 2 hose



### Female Elbow Bronze

Part No.	Size
I5050012	½ female BSP x ½ female BSP
I5050020	¾ female BSP x ¾ female BSP
I5050025	1 female BSP x 1 female BSP
I5050032	1 ¼ female BSP x 1 ¼ female BSP
I5050038	1 ½ female BSP x 1 ½ female BSP
I5050050	2 female BSP x 2 female BSP



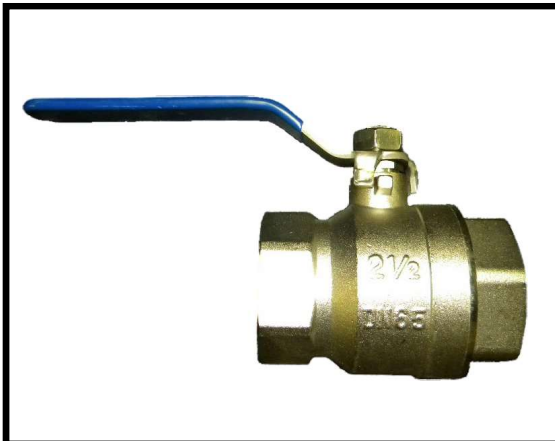
### Male Female Elbow Bronze

Part No.	Size
I5060012	½ male BSP x ½ female BSP
I5060020	¾ male BSP x ¾ female BSP
I5060025	1 male BSP x 1 female BSP
I5060032	1 ¼ male BSP x 1 ¼ female BSP
I5060038	1 ½ male BSP x 1 ½ female BSP
I5060050	2 male BSP x 2 female BSP



### Reducing Bush Bronze

Part No.	Size
BB2012	¾ male BSP to ½ female BSP
BB2520	1 male BSP to ¾ female BSP
BB3225	1 ¼ male BSP to 1 female BSP
BB4032	1 ½ male BSP to 1 ¼ female BSP
BB5040	2 male BSP to 1 ½ female BSP

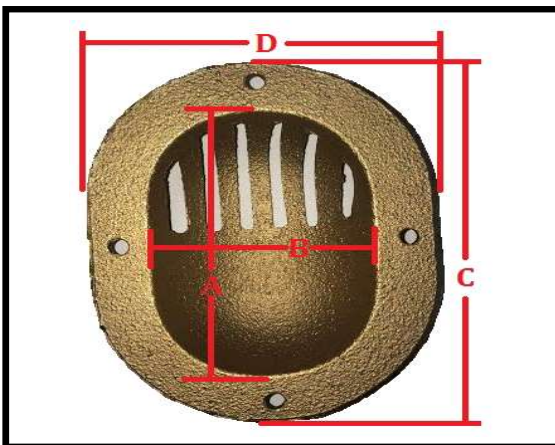


### Ball Valve Nickel Plated Brass

BSP threaded both ends.

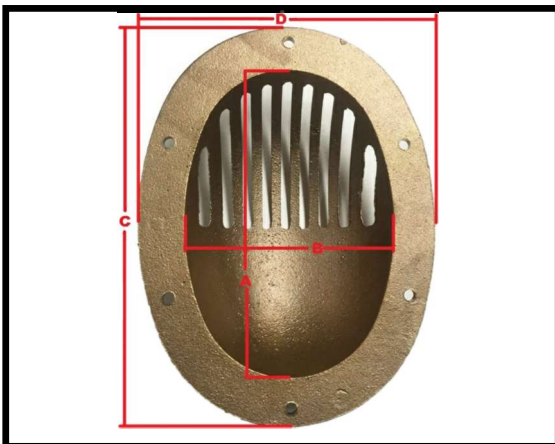
Part No.	Size	Thread Size
EPBUS013	13mm	½ BSP
EPBUS019	19mm	¾ BSP
EPBUS025	25mm	1 BSP
EPBUS032	32mm	1 ¼ BSP
EPBUS038	38mm	1 ½ BSP
EPBUS050	50mm	2 BSP
EPBUS065	65mm	2 ½ BSP





### Small Oval

Order Number	"A"	"B"	"C"	"D"
P258	85mm	57mm	115mm	89mm



### Oval

Order Number	"A"	"B"	"C"	"D"
P259	135mm	91mm	175mm	130mm



## Deck Filler

These bevel flanged Marine Grade Stainless Steel deck fillers have been designed for safe flush mounting. No danger of stubbing toes or fouling lines. No need for setting in. Fuel, Water, Diesel or Waste are clearly stamped on the flange to positively identify the correct tank intake.



Order Number	Thread Size	Flange Diameter	Spigot Diameter
P99Water	1 ½ inch BSP	98mm	52mm
P99Waste	1 ½ inch BSP	98mm	52mm
P99Diesel	1 ½ inch BSP	98mm	52mm



# Raw Water Strainers



## Nickel Plated Bronze

- Clear Transparent Top PA6
- Two versions - side inlet or bottom inlet
- Solid Cover available - upon request only

Side Inlet		Bottom Inlet	
Order Number	Size	Order Number	Size
1162/1	1 inch	1160/34	¾ inch
1162/114	1 ¼ inch	1164/1	1 inch
1162/112	1 ½ inch	1164/114	1 ¼ inch
1162/2	2 inch	1164/112	1 ½ inch
		1164/2	2 inch

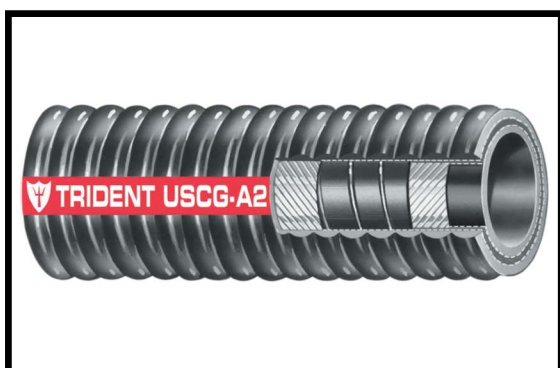


## Black Anodised Aluminium

- Clear Transparent Top PA6
- Two versions - side inlet or bottom inlet
- Solid Cover available - upon request only

Side Inlet		Bottom Inlet	
Order Number	Size	Order Number	Size
3162/34	¾ inch	3164/1	1 inch
3162/1	1 inch	3164/112	1 ½ inch
3162/112	1 ½ inch	3164/2	2 inch
3162/2	2 inch		





## Corrugated A2 Marine Fuel - #329

**Trident A2 Corrugated Fuel Fill Hose** for gasoline fill hose (including ethanol blends) and diesel (including bio diesel blends). The #327 series exceeds ABYC H-24 & H-33, SAE J1527, ISO 7840, & USCG Type A2; and is NMMA Type Accepted, CE certified and Lloyds Registry Type Approved. This hose is built with the best fuel, fire and age resistant formulation. Provides extraordinary resistance to aging, fire, heat, cold, and the ozone. Also provides extraordinary flexibility and bend radius.

**5 Year Warranty**

**Available sizes** - 1 ½ inch to 2 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T329-(size)



## A2 Marine Fuel - #327

**Trident A2 Fuel Fill Hose** for gasoline fill hose (including ethanol blends) and diesel (including bio diesel blends). The #327 series exceeds ABYC H-24 & H-33, SAE J1527, ISO 7840, & USCG Type A2; and is NMMA Type Accepted, CE certified and Lloyds Registry Type Approved. This hose is built with the best fuel, fire and age resistant formulation. Provides extraordinary resistance to aging, fire, heat, cold, and the ozone. Also provides excellent bend-ability.

**5 Year Warranty**

**Available sizes** - ¾ inch to 2 3/8 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T327-(size)



## A1-15 Fuel line - #365

**Trident Barrier Lined A1-15 Fuel Hose** for both gasoline (including ethanol blends up to 85%) and diesel (including bio diesel blends up to B100). The #365 series exceeds ABYC H-24 & H-33, SAE J1527, ISO 7840, USCG Type A1-15; CARB Executive Order and EPA Certified low permeation Type A1-15; and is NMMA Type Accepted & CE certified. This hose is built with the best fuel, fire and age resistant formulation and a unique "Barrier Liner" on inside surface of the tube, so fuel is not in direct contact with rubber. Provides extraordinary resistance to fuel permeation, aging, and also to fire, heat, cold, and the ozone. Also provides excellent bend-ability.

**5 Year Warranty**

**Available sizes** - ¼ inch to ¾ inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T365-(size)



## B1-15 O/B Fuel line - #305

**Trident Barrier Lined B1-15 Low Perm Fuel Line Hose** for both gasoline (including ethanol blends up to E85) and diesel (including bio diesel blends up to 100%). This hose is built with the best fuel and age resistant formulations and a unique "Barrier Liner" on inside surface of the tube, so fuel is not in direct contact with rubber. This greatly reduces fuel permeation and prevents ethanol degradation of the rubber tube, which can cause small pieces of rubber to reach and damage the engine. Provides extraordinary resistance to fuel permeation, aging, heat, cold, and ozone. It also provides excellent rope like bend-ability and fitting retention.

**3 year Warranty**

**Available sizes** - ¼ inch to 3/8 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T305-(size)



## Ocean-Flex Mutli-Purpose Marine Hose - #321

This unique marine hose can be used for a multitude of applications for both Commercial and Recreational Vessels including: Fuel Fill, Feed, and Vent (Diesel & Gasoline – Type A1), Lube Oil, Wet Exhaust, Water (Vital and Non-Vital), Bilge, Coolant, Drains, and Sanitation applications. OCEAN-FLEX boasts compliance with the following standards: USCG Inspected Vessels (Title 46 CFR Sub-Chap. T), SAE J1942 (Code F, VW, NVW), USCG Type A1, SAE J1527 A1 R2, SAE J2006 R2, SAE J20R2 B, SAE J20R4 B, SAE J20R5 B, SAE J30R5, ABYC H-22, H-24, H-33 P-1, P-4, ISO 7840 A1, ISO 8469 B1, ISO 13363 2B. Provides excellent resistance to fuel, fire, heat, cold, ozone and aging. Also provides excellent bend-ability and adheres to more standards than any other marine hose.

**5 year Warranty**

**Available sizes** - ½ inch to 8 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T321-(size)



### Corrugated Marine Wet Exhaust - #252

Trident Corrugated Wet Exhaust and Water Marine Hose offers best performance and bend radius with its High Temp EPDM Rubber compounds. This enables it to handle higher temperatures, longer life and durability that its competition. Exceeds SAE J2006-R2, and ABYC & NMMA P-1 exhaust standards and Lloyd's Registry Type Approved. Black High Temp EDPM Rubber 280°F (138°C) Max. \*

**5 Year Warranty**

**Available sizes** - 1 ½ inch to 12 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T252-(size)



### Flex Marine Wet Exhaust & Water - #250

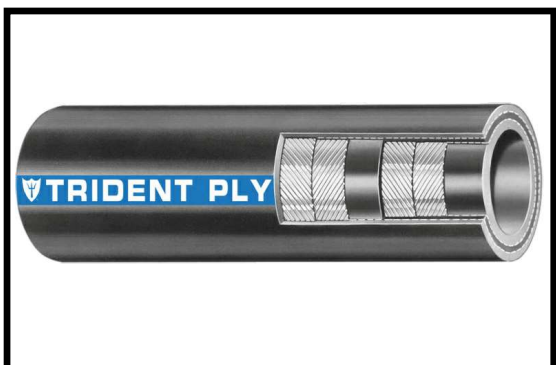
Trident Flex wet exhaust hose for longer bent connections. In smaller I.D.'s for engine intake, critical water, drain, scupper bilge & sanitation uses. Extra heavy tube and cover with wire helix between 2-ply reinforcement provides excellent flexibility and bend radius. Resists heat, ozone, exhaust, panting and collapse. Exceeds SAE J2006-R2, and ABYC & NMMA P-1 exhaust standards and Lloyd's Registry Type Approved. Black High Temp EDPM Rubber 250°F (121°C) Max. \*

**5 Year Warranty**

**Available sizes** - ½ inch to 12 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T250-(size)



### Ply Marine Wet Exhaust & Water - #200

Trident Ply marine wet exhaust hose for short, straight connections. In smaller I.D.'s for critical engine coolant & circulation, heat exchanger and discharge uses. Extra heavy tube and cover with 2 to 6 ply reinforcement resists heat, aging, ozone, exhaust and salt water. Exceeds (SAE J2006-R1, and ABYC & NMMA P-1 exhaust standards). Lloyd's Registry Type Approved. Black High Temp EDPM Rubber 250°F (121°C) Max.

**5 Year Warranty**

**Available sizes** - ½ inch to 12 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T200-(size)

### Silicone & Rubber Wet Exhaust Elbows & Bellows

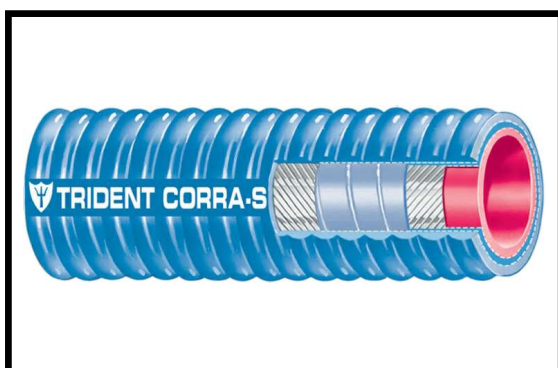
Silicone & Rubber Elbows & Hump Hose Bellows provide the ultimate flexible connectors for Marine Wet Exhaust Systems. They offer much greater tolerance to heat, misalignment, engine movement, & vibration, with significant savings in cost, parts, labor and space. Highest max. continuous operating temps.

- *Moulded Black Hi Temp*: EPDM Rubber 250°F (121°C).
- *Blue Very Hi Temp*: Silicone 350°F (177°C).
- *Red Xtra Hi Temp*: Silicone 500°F (260°C).



Silicone (Blue VHT and Red XHT), also available with 4 to 6 ply reinforcement. Same temps, but higher pressure resistance for coolant, turbocharger, etc. applications. All exceed New (SAE J2006, ABYC and NMMA) Stds.\*\* (see below). Black High Temp EDPM Rubber 250°F (121°C).





### Silicone Marine Wet Exhaust - #252V

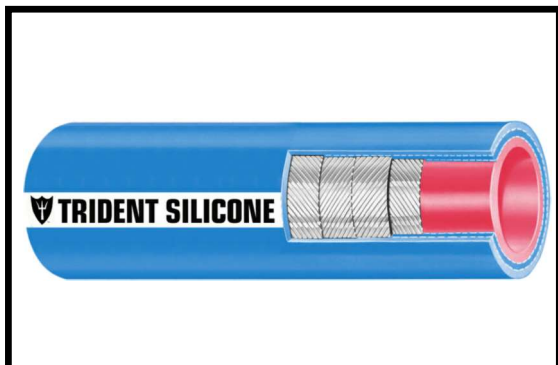
Trident Wet Exhaust and Water Coolant Hose offers the BEST performance and flexibility. Silicone naturally handles higher temperatures and will last longer than rubber exhaust Hose. The silicone will also transfer less heat into the engine room. Meets and exceeds Marine Exhaust Standards, SAE J2006, ISO 13363 and is Lloyds Register Certified.

**10 Year Warranty**

**Available sizes** - 1 inch to 18 inch

**Packaging** - 3 foot, 6 foot or 12 foot length

**Order Number** - T202v(size)



### Silicone Marine Wet Exhaust - #202V

Trident Silicone Marine Wet Exhaust Hose gives the best performance with a cool quiet elegance. Silicone naturally handles higher temperatures and will last longer than rubber exhaust Hose. The silicone will also transfer less heat into the engine room. The 202V series Silicone Wet Exhaust products is designed for short straight connections.

**10 Year Warranty**

**Available sizes** - 1 inch to 18 inch

**Packaging** - 3 foot, 6 foot or 12 foot length

**Order Number** - T202v(size)



### Marine H.D & X.H.D Water

Cost effective, Hi Temp, EPDM rubber, polyester reinforced and exceeds SAE J20R3. Both are resistant to coolants, ozone, cold & heat; and serve a variety of boat and plant pressurized application (water & air delivery)

- #132 is 2 spiral, 200PSI
- #134 is 4 spiral, 300PSI

**Available sizes** - ¼ inch to 1 ½ inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T132-(size) or T134-(size)



### Premium Sani Shield Sanitation - #102

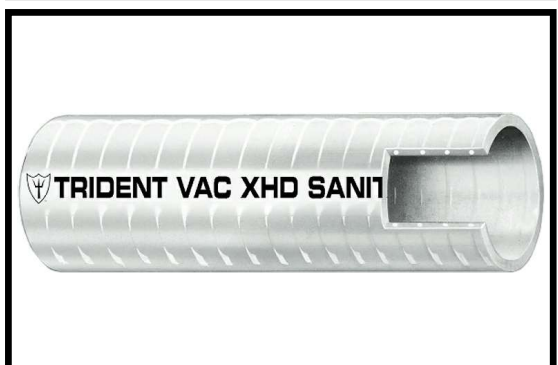
Trident Premium Sanitation Hose resistant to odour permeation. Simply the BEST solution for marine environments, built with EPDM rubber to ensure the over all performance and resistance to odour permeation that you would expect in a sanitation hose. Excellent bend radius and heat resistance (a big contributor to odour permeation on plastic hoses).

**5 year Warranty**

**Available sizes** - 1 inch, 1 ½ inch or 2 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T102-(size)



### Vac X.H.D Sanitation - #148

Trident Ply Extra Heavy-duty Sanitation Hose of smooth white vinyl. Specially compounded to provide excellent resistance to odour permeation and (FDA) potable water fill. Also for critical bilge, drain scuppers, live wells, etc. Hard PVC helix gives good flexibility and bend radius. No cuffs required.\* Don't use with alcohols, anti-freeze, petrochemicals or solvents. Self-draining installations are recommended for longest odour free service.

**5 year Warranty**

**Available sizes** - 5/8 inch to 1 ½ inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T148-(size)



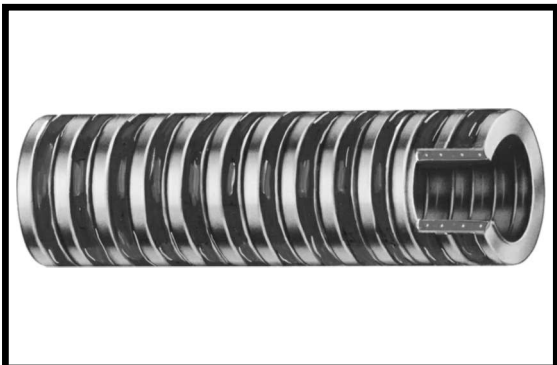
#### Vac-H.D. Water Fill, Bilge & Live Well - #144

Trident Heavy-duty bilge, drain and live well hose. Clear see-thru vinyl (FDA) corrugated with black hard PVC helix and smooth tube. Provides exceptional flexibility and bend radius. NOT RECOMMENDED FOR BELOW WATER LINE THRU-HULL CONNECTIONS. No cuffs required.  
**2 Year Warranty**

**Available sizes** - 5/8 inch to 1 ½ inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T144-(size)



#### VAC X.H.D Bilge & Live well

Trident VAC XHD Bilge and Live Well Hose. Helical PVC reinforcement provides excellent flexibility and bend radius for live well and heavy-duty bilge applications. It has a smooth outer surface to allow for easy clamping. The excellent bend radius of this product gives you the flexibility of a rubber hose making installations a breeze.

- #147 - All clear (see-thru) with black helix.
- #149 - Solid Black with Black helix

**3 Year Warranty**

**Available sizes** - 5/8 inch to 1 ½ inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T149-(size) or T147-(size)



#### Reinforced PVC - FDA

Trident Coloured PVC Series - polyester re-enforced PVC hose for water feed lines. FDA grade tube is non-toxic, odourless and tasteless. Made of 3-ply polyester for excellent abrasion resistance and sustained flexibility. Suitable for use in harsh operating conditions with temperatures as low as -18.4°F (- 28°C) and can handle pressures up to 250 psi (varies based on i.d size). The Coloured cover allows for easy identification of "Cold or Hot Water" lines on your boat. Perfect for cold pressurized applications, water feed, drains and vent lines.

**Available sizes** - 3/8 inch to 1 inch

**Packaging** - Cut per metre or 15 metre Coil

**Order Number** - T162clear-(size) or T165blue-(size) or T166red-(size)



#### T-Bolt Exhaust Clamps - #720

Very strong and secure clamp for critical installations. **Trident Marine T-Bolt Clamps** are built with safety in mind. With a 3/4" (19 mm) wide band, this clamp ensures a greater area of coverage for a positive and strong union. It is recommended that two clamps be used on each end of a wet exhaust installation. These clamps can be used on any hose connection with piece of mind that they will last you a very long time. 3-Year Warranty.

**Available sizes** - 5/8 inch to 18 inch

**Packaging** - individual or pack of 12

**Order Number** - T720-(size)



#### Non-Perf Clamps

Premium Marine Grade, all AISI 316 (high tensile strength) Stainless Steel "HD NON-PERF" Worm Gear Hose Clamp. The 11.7 mm (0.46") wide band is Non-Perforated and smooth on the inside with rolled edges. This eliminates hose damage with increased clamping force. The high strength, compact, one piece 16mm (0.63") wide housing provides one of the highest clamping force ratings of any worm gear style clamp. Screw head is 7mm.

- 705 series - 9.7mm wide band, 14mm wide housing - size ¼ to 1 ½ inch
- 710 series - 11.7mm wide band, 16mm wide housing - size ½ to 8 inch

**Packaging** - Individual or pack of 10

**Order Number** - T705-(size) or T710-(size)



## Hinges

These popular Stainless Steel hinges are designed especially for marine use. The Pin is solid 316 stainless steel for strength.

Order Number	Type	Overall Length	Overall Width
P841S	Butt Hinge	90mm	60mm



Order Number	Type	Overall Length	Overall Width
P951S	Short/ Short	60mm	25mm
P950S	Long/ Short	95mm	25mm
P952S	Long/ Long	130mm	25mm



Order Number	Type	Overall Length	Overall Width
P486S	Short/ Short	96mm	35mm
P487S	Long/ Short	136mm	35mm
P485S	Long/ Long	171mm	35mm



# Deck Hardware

**Dollar for Dollar, absolutely the best marine hardware you can buy anywhere.**



Single Block with Adjustable Shackle  
- With Becket

Single Block with Snap Shackle  
- With Snap Shackle and Becket

Single Block with Stand-up deck plate

Double Block with Adjustable Shackle  
- With Becket

Triple Blocks with Adjustable Shackle  
- With Becket  
- With Becket & Cam Cleat

Fiddle Block with Adjustable Shackle  
- With Becket  
- With Cam Cleat  
- With Becket & Cam Cleat

Fiddle Block with Snap Shackle  
- With Becket  
- With Cam Cleat  
- With Becket & Cam Cleat

Snatch Blocks

Boom Vangs

Two Speed Vangs

Rigid Boom Vangs

Series	15	20	25	27	30	40	50	60	70
Maximum Line Size	8mm	8mm	10mm	10mm	12mm	12mm	16mm	16mm	20mm
Sheave Diameter	25mm	43mm	50mm	57mm	64mm	64mm	76mm	85mm	100mm
Safe Working Load	182kg	272kg	520kg	907kg	1088kg	1270kg	1360kg	1590kg	2267kg



Rope Clutches  
- Singles, Doubles, Triples, Quads

Bow Rollers

Cheek Blocks

Deck Organisers

Foot Blocks

MainSheet Travelers  
- Universal Risers

"T" Track

Track Cars  
- Slides  
- Rope Clutches  
- Low Lead

E-Z Glide Swivel Car System  
- Swivel Cam

Stanchion Tubes  
- Stanchion bases  
- Stanchion Tubes with welded bases  
- Stanchion gates

Dinghy Davits

Lifting Davits

Kayak Racks

Radar Towers  
- lifting hoist for Radar Tower

Genoa Boarding Ladder

Retractable Outboard Mount



# Rope



## VB Cord

Available in different colours - Black, White, Red, Blue, Green and Yellow.

Available in 100m or 500m

**Order number** - (Amount) x (Length) x VB(Size)(Colour)



## Double Braid Rope

Available in different fleck colours - Black, White, Red, Blue, Green and Yellow. Available in 100m, 200m or Bulk

### Breaking load in KG

2mm -	72	4mm -	288	6mm -	864
8mm -	1728	10mm -	2880	12mm -	3600
14mm -	4608	16mm -	5616	18mm -	7400
20mm -	8300	22mm -	9504	24mm -	12032



## Double Braid Rope

Available in different solid colours - Black, White, Red, Blue, Green and Yellow. Available in 100m, 200m or Bulk

### Breaking Load in KG

2mm -	72	4mm -	288	6mm -	864
8mm -	1728	10mm -	2880	12mm -	3600
14mm -	4608	16mm -	5616	18mm -	7400
20mm -	8300	22mm -	9504	24mm -	12032

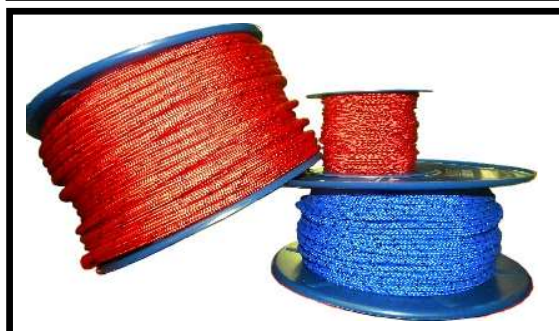


## UHMWPE 62 Rope

Available in different fleck colours - Black, White, Red, Blue, Green and Yellow. Available in 100m, 200m or Bulk

### Breaking Load in KG

2mm -	112	3mm -	402	4mm -	532
5mm -	1022	6mm -	1505	8mm -	2939
10mm -	4199	12mm -	5375	14mm -	6858
16mm -	8285	18mm -	9683	20mm -	12460



## UHMWPE 62 Rope

Available in different solid colours - Black, White, Red, Blue, Green and Yellow. Available in 100m, 200m or Bulk

### Breaking Load in KG

2mm -	112	3mm -	402	4mm -	532
5mm -	1022	6mm -	1505	8mm -	2939
10mm -	4199	12mm -	5375	14mm -	6858
16mm -	8285	18mm -	9683	20mm -	12460



### UHMWPE 78 Rope

Available in different fleck or solid colours - Black, White, Red, Blue, Green and Yellow. Available in 100m, 200m or Bulk

#### Breaking Load in KG

3mm -	550	4mm -	700	5mm -	1200
6mm -	1630	7mm -	2000	8mm -	3600
10mm -	6800	12mm -	8100	14mm -	10400
16mm -	12500	18mm -	15000	20mm -	18000



### Closehaul Rope

Available in different colours - Mottle Black, Mottle Red or Mottle Blue. Available in 100m or 200m.

#### Breaking Load in KG -

6mm	792
8mm	1584
10mm	2574
12mm	3168
14mm	4158



### Shock Cord

Available in different colours - Black, White and Blue  
Available in 100m

**Order number** - (Amount) x (Length) x Shock(Size)(Colour)



### Rope Accessories

Order Number	Style
PRP9053	Hand held rope cutter
PRP9054M	Head held rope cutter blades
PRC0005	Rope cutter bench type
PRP9058M	Rope measurer
PRP9061M	Splicing kit

# Quick Reef

By GOÏOT

This automatic reefing system is the ideal solution for reducing sails easily and avoiding friction on grommets. Combined with a set of deck blocks in the boom, you can directly take in reefs from the cockpit.

Quick Reef's multiple benefits:

- Installation on 2 existing Ruthgerson grommets (25mm and 35mm)
- Only one sheet to cockpit (using blocks in or on the boom)
- Minimises friction on grommets and rope wear
- Easy installation : Only one screw, one nut (supplied)
- Optimises the sail aerodynamics performance : the sail is correctly centred on the boom.



Mounting is very easy :

1. Mount both cheeks of the reefing system on each side of a grommet and place the sheave inside.
2. Position the screw in the sheave. Make sure the screw is positioned downwards.
3. Fasten the nut onto the screw to hold the unit. Follow the same procedure with the second

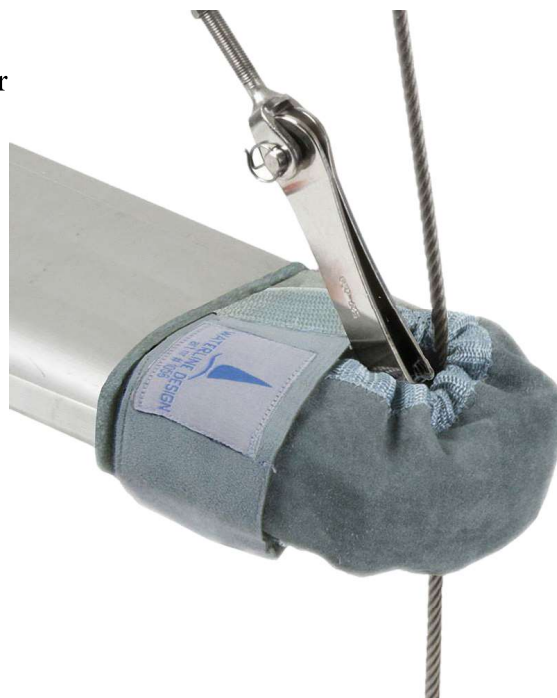
Order Number	Size	Max. Rope Size
105737	25mm Grommet	8mm
105738	35mm Grommet	12mm



## Spreader Boots

Spreader boots made of UV-resistant durable leather. A rubber cord at the edge enables the boot to fit well regardless of the design of the spreaders. The interior is lined with neoprene for an especially good fit and gives a soft surface against the sail. The spreader boot end cap protects your sails. The spreader is delivered with an extra long velcro for safe attachment and fits wide spreader arms. The spreaders are sold in pairs, available in 4 sizes.

- Simple installation with Velcro, hook and loop fastener
- Suitable for all types of rigging and spreaders
- Easy to measure for right size
- Protects both fore/main sails
- UV-resistant



Spreader Width	Continuous Rig	Linked Rig
55-95mm	1050 - Small	
95-122mm	1052 - Medium	
74-95mm		1052 - Medium
105-122mm		1054 - Large
122-154mm	1054 - Large	1056 - X-large



# SOS Dan Buoy

## When the seconds count, don't be second best!

The SOS Dan buoy is patented, man-overboard equipment, ready for instant deployment. The ultra fast and reliable self-righting properties ensure that just when time matters most, the SOS Dan Buoy is always ready. It increases vital visibility and buoyancy for the person overboard. Highly portable safety device, iPad size, compact and self-contained, using a 33 gram cylinder. SOS Dan Buoy is the perfect choice when you want to be found.

### Features Overview -

- Packed into a portable valise-compact, ready to use
- Tested to elements of ISO 12402
- Self-contained disposable CO2 inflation system
- Re useable and Repackable
- Fluorescent yellow 2.5 metre streaming ribbon
- Automatic SOLAS light for night rescues
- SOLAS grade high-visibility tape
- Large webbing for arms to go through
- Large drogue to reduce downwind drift
- Weighs only 4 kg
- For all boats, yachts and catamarans

Introducing a new level of safety for man-overboard



Order Number	Description
SOS-6375	SOS Dan Buoy
SOS-5639	Holder/ Bag for Dan buoy

# SOS Reel Sling

The REELSLING is a flotation device to assist and be part of a system for recovering persons overboard. The REELSLING features a flexible flotation collar with SOLAS reflective tape, grab handle, whistle, over 160ft (50 metres) of floating retrieval line and a PVC UV proof storage bag.

### Features

- The Reel Sling is constructed from pliable closed cell foam padded comfort section encased in a durable, high visibility cover with 10 Kilos of flotation.
- A grab handle has been sewn around the foam filled comforter to assist retrieval and deployment.
- SOLAS grade reflective tape has been extensively used on the outside of the foam padded comforter for easy identification and detection at night.
- The stainless non slip steel D rings provide easy entry and secure closure during rescue.
- The Reel Sling has life jacket grade safety webbing.
- Easy to use operating instructions.
- Made to be attached to your pulpit rail.
- The retrieval line tail has to be secured to the boat before use.
- A whistle, and a water activated SOLAS light is included.
- The Reel Sling has 150ft or (50 metres) of reflective ski floating rope that doesn't absorb water.
- Stow PVC bag made from 1100dtex PVC with UV, FR & anti fungal treated super gloss fabric.



Order Number	Description
SOS-5654	SOS Reelsling

# SOS Ladder

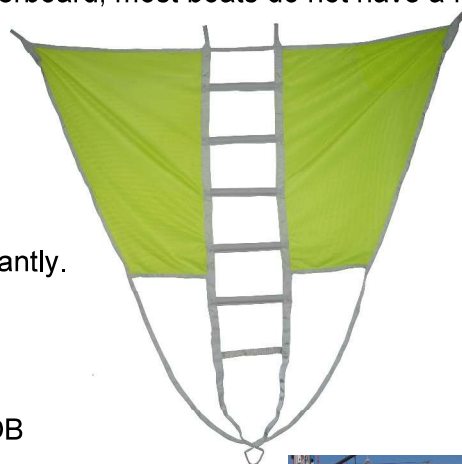
## HOW DO I GET BACK ON BOARD?

The SOS Recovery Ladder answers the question for all boaters and makes for a good plan to get you back on board. If you either intentionally go for a swim, or fall overboard, most boats do not have a facility to get you back on board.

### Features

- Safe working load of up to 210kg.
- The SOS ladder is designed for simplicity and speed.
- The bag is an internal part of the ladder.
- The SOS ladder is incorporated and packed into a high visibility fluoro yellow mesh bag that unfolds instantly.
- Dimensions of the incorporated yellow mesh bag folded is 500mm x 300mm.
- Width of steps 370mm.
- Lightweight only 3.3kg.

Deployed length of ladder is 2 1/4 metres it enables the MOB to step onto the lowest step with ease.



Order Number	Description
SOS-5656	SOS Ladder
SOS-5678	Sock/ Bag for Ladder

# Rescue Laser Light

The rescue laser light is a hand held day and night time laser signalling device that provides a convenient, effective way to signal a rescue party. It's waterproof (up to 80m), rugged design combines the safety of a laser signalling device with the convenience of a flashlight. These are the compact models preferred by military, hikers, kayakers, and other outdoor enthusiasts that want to minimize weight.

Order Number	Colour	Visibility	Laser Diode Life	Operational Battery life	Warranty
SOS-5564	Red	32km (night) 1.6 - 4.8km (daytime)	10000 hours	40 hours	lifetime
SOS-5565	Green	48km (night) 4.8 - 8km (daytime)	5000 hours	5 hours	180 days



# 4, 6, 8, 10 & 12 Person Liferaft



## Self Righting ISO9650-1 Life rafts

### Under 24 hour kit includes -

Rocket Parachute Signals	Hand Held Flares	Torch
Floating Bailer	Sponge	Whistle
Daylight Signal Mirror	Sea-Sickness Bags	Illustration of Survival Signal Sheet
Bellow	Repair Kit	Operation Manual
Paddles	Sea Anchor	Rescue Quits
Knife	Anti-Seasickness Medicine	Note Book

### Over 24 hour kit includes above table and the following items -

First Aid Kit	Food Rations
Fresh Water	Thermal Protective Aid

**NOTE:** Inspection/servicing of this life raft should be a minimum of once every three (3) years, return to Southern Seas Marine or its agent for complete and authorised service and repair.

Model	Order number	Container		Valise	
4 person	LR-SR04	780 x 530 x 390 mm	57 kg	700 x 450 x 290 mm	47 kg
6 person	LR-SR06	830 x 530 x 390 mm	66 kg	700 x 500 x 290 mm	55 kg
8 person	LR-SR08	880 x 550 x 390 mm	75 kg	750 x 550 x 320 mm	65 kg
10 person	LR-SR10	880 x 630 x 390 mm			
12 person	LR-SR12	880 x 630 x 425 mm			

Stainless Steel Cradles	Order number
4, 6 & 8 Person	LR-Cradle468
10 & 12 Person	LR-Cradle1012

Rental options available,  
please give us a call today  
- 07 5502 9666



# LPG Outboards

## 2.5 Horsepower

The Lehr 2.5 horsepower model is a single cylinder, 4 stroke engine design that features an onboard Twist 'n Go 16.4 ounce propane canister, making them completely self-contained units. An optional connector allows them to run off a remote propane tank, such as the 5 or 7.5 KG composite gas cylinders, or the same standard tanks as outdoor grills and camp stoves. The 2.5 has forward and neutral shifting with 360-degree steering.

### Technical Specifications

- Engine Type: Propane-Powered 4 Stroke SOHV
- Horsepower Rating: 2.5 hp (1.8 kW)
- Displacement: 4.39 cu in / 72 cc
- Bore X Stroke: 54mm x 31.5mm (2.12" x 1.37")
- Cylinders: 1
- Full Throttle RPM Range: 4500-5500 RPM
- Ignition System: CDI Ignition
- Starting System: Manual or Electric
- Fuel: Propane (110 Octane)
- Carburetion: No Choke / No Priming
- Lubrication: Wet Sump
- Control System: Tiller Handle
- Trim Positions: 5
- Gear Shift: F-N-R
- Gear Ratio: 2.08
- Shaft Length: 15"
- Standard Prop: 7.25" x 6" 3 Blade Aluminum
- Weight: 17kg (37.4 lbs)
- Recommended Oil: 4 Stroke 10W-30
- Engine Oil Capacity: 0.35Lt (0.37 US qt)
- Warranty: 3 Year Limited Warranty
- C.A.R.B. Rating: 3 Star Ultra Low



## 5 Horsepower

The Lehr 5 horsepower model is a single cylinder, 4 stroke engine design that features an onboard Twist 'n Go 16.4 ounce propane canister, making them completely self-contained units. An optional connector allows them to run off a remote propane tank, such as the 5 and 7.5 KG composite gas cylinders, or the same standard tanks as outdoor grills and camp stoves. The Lehr 5HP has full forward / neutral / reverse shifting.

### Technical Specifications

- Engine Type: Propane-Powered 4 Stroke SOHV
- Horsepower Rating: 5 hp (3.6 kW)
- Displacement: 6.83 cu in / 112 cc
- Bore X Stroke: 2.32" x 1.61" / 59mm x 41mm
- Cylinders: 1
- Starting System: Manual
- Full Throttle RPM Range: 4500-5500 RPM
- Ignition System: CDI Ignition
- Fuel: Propane (110 Octane)
- Carburetion: No Choke / No Priming
- Lubrication: Wet Sump
- Control System: Tiller Handle
- Exhaust System: Above Propeller
- Cooling System: Water / Thermostatic Control
- Trim Positions: 5
- Gear Shift: F-N-R
- Gear Ratio: 2.08
- Shaft Length: LP5.0S 15"(S) & LP5.0L 20" (L)
- Standard Prop: 7.5" x 7" 3 Blade Aluminum
- Weight: 21.8kg (48.4LBS)
- Recommended Oil: 4 Stroke 10W-30
- Engine Oil Capacity: 0.5Lt (0.53 US qt)
- Warranty: 3 Year Limited Warranty
- C.A.R.B. Rating: 3 Star Ultra Low





## 9.9 Horsepower

The Lehr 9.9 horsepower model is a two-cylinder, 4 stroke engine design, with forward / neutral / reverse shifting. They are available as either manual or electric start models, with tiller or remote control steering. They draw fuel from a remote propane tank, such as the 5, 7.5 and 10 KG composite gas cylinders, or the same standard tanks as outdoor grills and camp stoves.. Equipped with an optional regulator, they can produce 80 watts of electrical power for lights and accessories.

### Technical Specifications

- Engine Type: Propane-Powered 4 Stroke SOHV
- Horsepower Rating: 9.9 hp (7.2 kW)
- Displacement: 12.94 cu in / 212 cc
- Bore X Stroke: 2.32" x 1.61" / 59mm x 41mm
- Cylinders: 2
- Starting System: Manual or Electric
- Full Throttle RPM Range: 4500-5500 RPM
- Ignition System: CDI Ignition
- Fuel: Propane (110 Octane)
- Carburetion: No Choke / No Priming
- Lubrication: Wet Sump
- Control System: Tiller Handle or Remote
- Exhaust System: Through Prop
- Cooling System: Water / Thermostatic Control
- Trim Positions: 5
- Gear Shift: F-N-R
- Gear Ratio: 2.08
- Shaft Length: 15"(S) & 20" (L)
- Standard Prop: 8" x 8.5" 3 Blade Aluminum
- Weight: 39.8 kg (88 lbs)
- Recommended Oil: 4 Stroke 10W-30
- Engine Oil Capacity: 0.85 US qt (0.8L)
- Warranty: 3 Year Limited Warranty
- C.A.R.B. Rating: 3 Star Ultra Low
- Alternator Output
- 6 amp / 80 watt – Electric
- 6 amp / 80 watt – Manual (requires optional regulator)



## 15 Horsepower

The Lehr 15 horsepower models is a two-cylinder, 4 stroke engine design, with forward / neutral / reverse shifting. They are available as either manual or electric start models, with tiller or remote control steering. They draw fuel from a remote propane tank, such as the 5, 7.5 and 10 KG composite gas cylinders, or the same standard tanks as outdoor grills and camp stoves. Equipped with an optional regulator, they can produce 80 watts of electrical power for lights and accessories.

### Technical Specifications

- Engine Type: Propane-Powered 4 Stroke SOHV
- Horsepower Rating: 15 hp (11 kW)
- Displacement: 19.7 cu in / 323 cc
- Bore X Stroke: 2.32" x 2.32" / 59mm x 59mm
- Cylinders: 2
- Starting System: Manual or Electric
- Full Throttle RPM Range: 4500-5500 RPM
- Ignition System: CDI Ignition
- Fuel: Propane (110 Octane)
- Carburetion: No Choke / No Priming
- Lubrication: Wet Sump / Pressure Lubricated
- Control System: Tiller Handle or Remote
- Exhaust System: Through Prop
- Cooling System: Water / Thermostatic Control
- Trim Positions: 5
- Gear Shift: F-N-R
- Gear Ratio: 2.08
- Alternator Output
- 6 amp / 80 watt – Electric
- 6 amp / 80 watt – Manual (requires optional regulator)
- Shaft Length: 15"(S) & 20" (L)
- Standard Prop: 8" x 8.5" 3 Blade Aluminum
- Weight: 49.9kg (110 lbs)
- Recommended Oil: 4 Stroke 10W-30
- Engine Oil Capacity: 0.5Lt (0.53 US Qt)
- Warranty: 3 Year Limited Warranty
- C.A.R.B. Rating: 3 Star Ultra Low

## HYDROGENERATOR LINE : ENERGY PRODUCTION FOR CRUISING

### How does the Watt & Sea Hydrogenerator operate?

The principle is simple: Watt & Sea Hydrogenerator uses the speed of the sailboat to turn an immersed propeller. Like the dynamo of a bicycle rubbing on the wheel, the propeller in contact with the water flow produces electricity. Energy production begins at a mere 2 knots of hull speed. They are the most powerful, reliable and lightest units available.

### How to make electricity while cruising in your sailboat?

High performance system for cruising or offshore navigation and long distance crossings, for total energy independence.

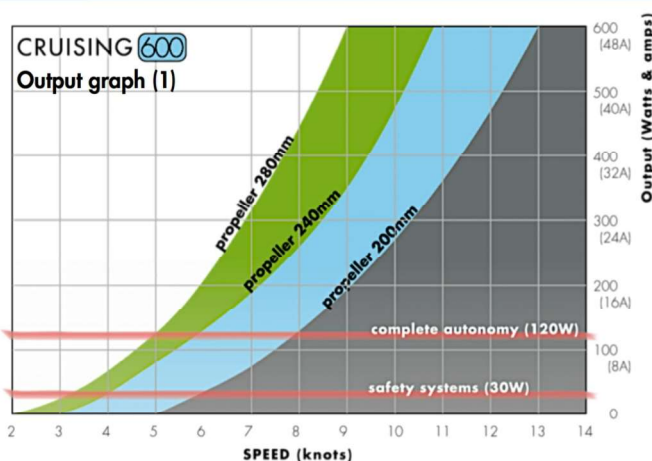
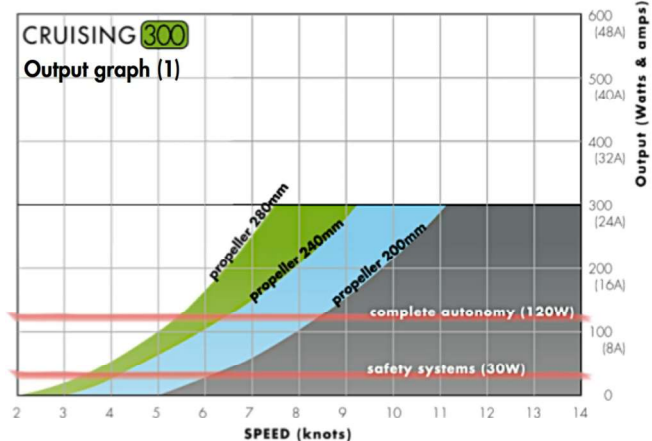
The cruising range is a clean and quiet system to produce electricity, especially adapted to yachtsmen, sailors and offshore navigation. Built in premium quality aluminium and with a dynamic design, cruising hydrogenerators are light, robust, compact and easy to install. Delivered with fastening kit, 240 mm propeller, power convertor-regulator and lifting fastening bracket.

With optimal output and minimal drag, watt&sea's Hydrogenerator™ outclasses existing systems (wind turbines and solar panels), allowing you to navigate with positive energy and to recharge your batteries for worry-free mooring.

- High-grade Aluminium Construction
- Electronic Convertor-Regulator
- Brush less Permanent-magnet Alternator
- Easy transom-mounting Lift Bracket
- Maintenance-free
- 2 year warranty
- Available sizes - 610 or 970 mm
- Available outputs - 300 or 600 watts
- Cruising 300 : 24 A in 12 V
- Cruising 600 : 48 A in 12 V

Order Number	Short Leg - 610mm	Long Leg - 970mm
<b>600 Watt Model</b>	PK-610-600	PK-970-600
<b>300 Watt Model</b>	PK-610-300	PK-970-300

What comes in the box? 12-24 Vcc auto-detected converter, 240mm propeller, bracket with cam cleat and fastening kit.





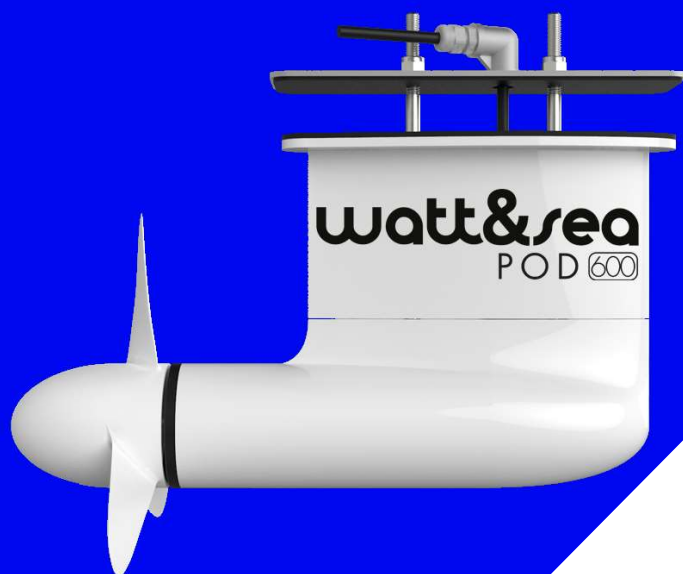
The Hydrogenerator POD 600 is an innovative solution for sailing boats unable to fasten a hydrogenerator on their transom for technical, mechanical and aesthetic reasons.

Tested since 2014 by a few privileged sailors, this version has been able to demonstrate these useful advantages :

- Invisible
- No complicated handling up and down
- Easy start-up
- Electrical output is the same compared to classic models

The hydrogenerator POD600 is delivered with a 100 mm aluminium leg; it will find its place under the hull of the boat to insure an on-board electrical output with the utmost secrecy.

Delivered in standard with the 240 mm diameter propeller (10 Amps at 5,6 knots), the POD600 accepts a range of 4 propellers for speed range from 3 to 20 knots. The output power increases in an exponential way over 6 knots.



Order Number	POD
<b>600 Watt Model</b>	PK-POD-600



## Removable Mounting Kit for Vertical Transom

This kit can be adapted to several kind of transoms. It simplifies and facilitates the mounting of your Hydrogenerator, and the installation becomes movable without using any tool. New in 2017 : locked by a stainless steel ball pin.

Order Number	
<b>Removable Mounting kit</b>	FA-03

## Universal Support for Vertical or Leaning Transom.

This support is the ideal solution for vertical or leaning transoms. It allowing to compensate an angle of + and - 45°. Part made of e-polished stainless steel, aesthetic and strong.

Order Number	
<b>Universal Support</b>	FU-03



The propeller adapted to slow boats and/or to weak wind zones.

Size	280mm	240mm	200mm	Adjustable
Order Number	P-280-03	P-240-03	P-200-03	P-200-04-PVM



## Waterproof Connection Kit

Ideal to complete any removable hydrogenerator support, to allow an easy, clean and fast installation on the hull.

Order Number	
<b>Waterproof Connection</b>	PL-04



## NSO evo3

*Your boat, how you want it.*

Complete your ultimate boat with NSO evo3. This navigation system puts you in total control of your on-board electronics through intuitive touchscreen controls. A stunning Full HD display, available in 16, 19 or 24-inch widescreen sizes, lets you see more than ever, while an integrated high-performance processor ensures a swift response to your every command. Connect your choice of GPS receiver, sonar, radar, autopilot, and other accessories to create your ideal chartplotter, navigation system, fishfinder. NSO evo3 gives you whatever you need to enable and enhance your favorite on-water activities.



Size	Basic Display Order Number
16 inch	000-14001-001
19 inch	000-14003-001
24 inch	000-14005-001

## Starter Kit

Kit includes -

- Choice of Screen size
- OP50 Keypad
- GS25 GPS antenna
- Two Slot micro-SD chart card reader



Size	Starter Kit Order Number
16 inch	000-14000-001
19 inch	000-14002-001
24 inch	000-14004-001

### Main Features

- Ultra-bright, Full HD Display
  - Easy touchscreen control
  - Sunlight-viewable screen
- Integrated quad-core processor
  - Low profile glass helm
- Six-panel split screen option
- Connect with smartphone, tablet & internet hotspots
  - Works C-map easy routing & Navionics Dock-to-dock autorouting

### OP50 Controller

The Simrad OP50 Remote Controller provides intuitive keypad and rotary-dial command of up to six NSS evo2 or NSO evo2 multifunction displays.

- Control up to six NSS evo2 or NSO evo2 multifunction displays
- High-quality aluminium control dial with built-in cursor functions
- Portrait and Landscape orientations available
- Narrow design perfect for helm chair arm mounting
- Dash mount with low 8mm profile
- Single NMEA 2000® connection
- Zero-profile flush mount with optional bracket
- Integrated high-decibel speaker for critical alarms



## NSS evo3

### Make the most of your boat

Navigate, find fish, and take total control of your on-water experience with NSS evo3. SolarMAX™ HD displays offer exceptional clarity and ultra-wide viewing angles in any light conditions, while intuitive all-weather touchscreen technology and a keypad with rotary dial offer total control in any conditions. Built-in echosounder support lets you cruise confidently with ForwardScan sonar, or reveal the ultimate fishing spots with StructureScan® HD imaging and CHIRP-enabled sonar—just add your choice of transducer. Wireless connectivity links NSS evo3 to your smartphone or tablet, keeping you in control from anywhere on board.

Size	NSS evo3 Display Order Number
7 inch	000-13237-001
9 inch	000-13238-001
12 inch	000-13239-001
16 inch	000-13240-001

Size	Display & 4G Radar Order Number
7 inch	000-13793-001
9 inch	000-13794-001
12 inch	000-13795-001

## GO series

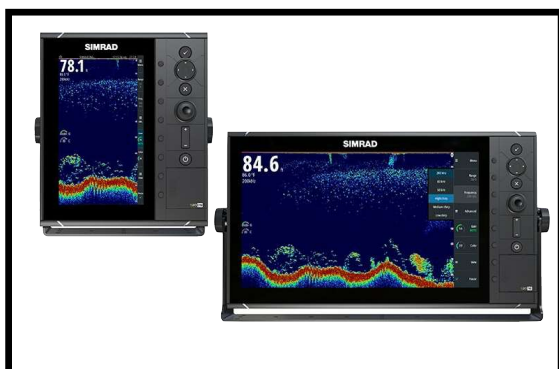
### Get more from every day on the water

Simrad GO series displays are designed to help you make the most of your time on the water and are a perfect addition to smaller sportboats, dayboats, and center-consoles. Behind every super-bright GO series touchscreen lies a built-in GPS receiver, echosounder, wireless connectivity, and industry standard NMEA 2000® networking. Navigate, connect with mobile devices, control accessories like your on-board sound system, and choose from an array of built-in sonar support to cruise with confidence or fish like a pro. Radar capability—available on the GO7 and above—offers added safety and fishfinding functionality while you're out on the water.

Size	GO series Display Order Number
7 inch	000-14448-001
9 inch	000-14444-001
12 inch	000-14442-001







### S2009 & S2016 Fish Finder

The Simrad S2000-Series Fish Finder combines maximum vertical detail and intuitive keypad-driven operation for reliable control in all conditions.

- Integrated broadband sonar module and CHIRP technology
- High depth penetration, ping speed & vertical heave compensation
- High brightness ideal for outside installation

Size	S2000 series Display Order Number
<b>9 inch</b>	000-12185-001
<b>16 inch</b>	000-12187-001



### S5100 Echosounder Module

This high-performance CHIRP sonar module features three fully independent channels to deliver simultaneous high-resolution coverage across multiple depth ranges, perfect for offshore sportfishing anglers. Mix and match wide and narrow transducer beam-widths to reveal more fish, or adjust CHIRP frequencies to precisely target specific depths producing big, crisp arches for the most advanced target separation available.

	Order Number
<b>S5100</b>	000-13260-001



### StructureScan 3D

StructureScan 3D imaging scans underwater terrain and fish-holding structure to create a high-resolution, 180-degree, three-dimensional view beneath your vessel. With this unique imaging view, anglers gain a better understanding of where fish and structure are located in relation to their vessel.

	Order Number
<b>StructureScan 3D transducer and module</b>	000-12395-001



### ForwardScan Sonar

This forward-looking sonar provides a clear two-dimensional image of the bottom in front of your vessel, allowing you to navigate shallow or poorly-charted waters with confidence. With real-time updates and a forward-looking view of up to eight times your current depth, ForwardScan lets you relax and enjoy a safer day on the water.

Size	ForwardScan Order Number
<b>Short stem Kit</b>	000-11674-001
<b>Long stem Kit</b>	000-13284-001



### Active Imaging

From all in one Active Imaging technology to the three-dimensional images of StructureScan 3D, we offer something for every angler, on any budget. Perfect for pinpointing fish-holding areas like rocks, reef, weedbeds and wrecks.

	Order Number
<b>Active Imaging 3 in 1 Transducer</b>	000-11674-001
<b>Active Imaging Transducer (Side &amp; Down only)</b>	000-13284-001



### Halo Radar

Combining the best characteristics of traditional pulse and FMCW broadband radar systems, our Halo™ Radar uses Pulse Compression technology to provide an unprecedented mix of long and short detection range, high target definition, and minimal clutter. Solid State technology means minimal warm-up time and maximum ocean-going reliability, while low-power pulsed transmissions make Halo Radar safe to run in anchorages and marinas.

- Beam Sharpening with Target Separation Control
- Dual Range operation
- Advanced signal processing with Custom, Harbour, Offshore, Weather, and BIRD modes

Size	Open Array Order Number
<b>3 foot</b>	000-11469-001
<b>4 foot</b>	000-11470-001
<b>6 foot</b>	000-11471-001



### HALO24 Radar

Halo24 revolutionizes radar by offering an almost real-time view, with industry-first 60 RPM operation at close range for the ultimate in collision avoidance. Identify hazards in an instant with VelocityTrack Doppler technology, and enjoy simultaneous short and long-range coverage up to 48 nautical miles - from one compact 24-inch dome antenna.

- Advanced pulse compression technology with beam sharpening
- Simultaneous Dual Range operation sees both near and far
- Ultra-fast 60 RPM operation at ranges up to 1.5 nm
- VelocityTrack™ Doppler technology for collision avoidance

Size	Halo Order Number
<b>HALO24</b>	000-14535-001



### Broadband Radar™

Enjoy a Crystal Clear, right up to the bow, with our incredible Broadband Radar.

- MARPA target tracking and Low power consumption
- Dual guard zones and InstantOn startup
- Extremely low emissions and quick installation
- Up to 36NM working range
- Beam sharpening
- High speed mode (48RPM)
- Advanced target detection

Size	Broadband Order Number
<b>4G Radar</b>	000-10421-001



### NAC-2 & NAC-3 Computers

State-of-the-art electronics are incorporated into Simrad autopilot systems, reducing the workload when you are at the wheel. Simrad autopilot systems reliably and accurately control heading using efficient turns, improving run times and reducing fuel consumption. Simrad autopilot systems take the worry out of constant course corrections and is a great fit for both veteran and inexperienced boaters.

A wide array of available modular components allows users to quickly and easily build the perfect autopilot system to fit any needs. Once a system is put together, Simrad autopilot acts as another trusted crewmember. Whether combining a custom system or selecting a core-component pack, any boater will enjoy the advantage and freedom of a Simrad autopilot system.

	Order Number
<b>NAC-2</b>	000-13249-001
<b>NAC-3</b>	000-13250-001

### Rotary Pilot Head Controller

The Rotary Pilot Head Autopilot Controllers has been engineered for ultimate clarity, responsiveness, and ease of use in all conditions. An optically bonded 4.1-inch colour display delivers clear visibility, while a large aluminium rotary control dial and dedicated 'dodge keys' enable quick and accurate heading adjustments.

- Optically bonded 4.1-inch colour display
- Simple autopilot control with rotary dial and keypad
- Automated turn patterns for fuel-efficient, hands-free manoeuvres
- No Drift steering holds your course against wind and tide
- Depth contour tracking makes it easy to fish ledges and drop-offs
- Easy setup with auto tuning and calibration
- Low-profile glass helm design
- Low power consumption

	Order Number
<b>AP44</b>	000-13289-001
<b>AP48</b>	000-13894-001



### Instruments

**IS35** - Easily visible day or night, the IS35 offers an interface to engine data, fuel efficiency, depth history and more. Connected by NMEA 2000, the IS35 automatically detects and displays the most relevant information on a series of pre-set, customisable data pages.

**IS42** - The multi-purpose IS42 instrument display uses a 4.1-inch full-colour screen to clearly present data from a wide variety of NMEA 2000 connected sensors and engines.

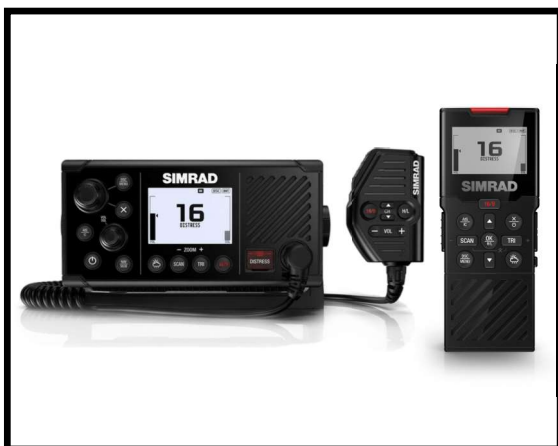
**IS42J** - The IS42J offers engine status and performance for up to J1939 Diesel engines.



	Instruments Order Number
<b>IS35</b>	000-13334-001
<b>IS42</b>	000-13285-001
<b>IS42J</b>	000-14479-001



### VHF



**RS40** - Stay safe and connected with this VHF marine radio featuring a sleek design with removable fist mic, Class D DSC functionality, and built-in GPS. Connect up to two wireless handsets.

**HS40** - Take control of your Simrad RS40 VHF radio, and enjoy the power of a fixed-mount system with the convenience of a handheld. Inductive charging with the included cradle.

Size	Order Number
<b>RS40 - Fixed</b>	000-14470-001
<b>HS40 - Wireless</b>	000-14475-001

### NAIS-500 & NSPL-500



**NAIS-500** - Reduce your risk of collision with this fully integrated, Class-B AIS transponder - essential for navigating today's busy shipping lanes and congested ports. Compact in size, lightweight, fully waterproof, with low power draw and featuring multiple connections, the NAIS 500 is ideal for networking with any NSS, NSO, or GO series chartplotter / multifunction display and Simrad RS VHF system.

**NSPL-500** - Save the hassle of installing a costly second antenna and use your existing single antenna with VHF/AIS/FM, by enlisting the lightweight, compact NSPL 500 antenna splitter.

	Order Number
<b>NAIS-500 w/ GPS</b>	000-13609-001
<b>NSPL-500</b>	000-13612-001
<b>Kit w/ both above</b>	000-13963-001

### GPS Antenna



Simrad's GS25 GPS antenna is the ideal GPS for any navigator that requires extremely accurate and rapid vessel position and speed updates.

- High speed position update - 10 times per second
- Rapid signal acquisition
- Consistent position accuracy
- Integrated magnetic heading with an integrated eCompass/Gyro
- GPS, WAAS, EGNOS and more
- Compact design -ideal for flush-mounting or pole mounting

	Order Number
<b>GS25</b>	000-11043-001

### Compass



The Precision-9 Compass is designed to supply heading and rate-of-turn information to Simrad autopilot, radar and navigation systems aboard non-SOLAS vessels. Incorporating a nine-axis array of solid-state motion and orientation sensors, the Precision-9 also provides accurate pitch and roll data to compatible equipment via its NMEA 2000® interface. An adjustable mounting bracket and single-cable connection allow simple and cost-effective installation aboard any vessel, including an up-mast mounting option suitable for steel hulls.

	Order Number
<b>Precision-9</b>	000-12607-001

## Zeus3 Glass helm

The B&G Zeus<sup>3</sup> Glass Helm is designed specifically for blue water sailing, multihulls and superyachts. This premium, super-fast, large-screen, multifunction display sits at the heart of your fully integrated navigation system. The Zeus<sup>3</sup> Glass Helm provides easy-to-use touchscreen and remote control options. B&G's unique sailing features including SailSteer and RacePanel all combine with Radar, charting, sonar and much more. The B&G Zeus<sup>3</sup> Glass Helm has an ultra-bright, wide-angle, full HD display combined with all-weather touchscreen. Whether it's planning a route, checking for obstacles and weather on the Radar screen, or simply navigating to your next destination; the Zeus<sup>3</sup> Glass Helm's impressive screen enables the user to view the data easily through polarised lenses, from almost any angle, even in bright sunlight.

Size	Basic Display Order Number
16 inch	000-14007-001
19 inch	000-14009-001
24 inch	000-14011-001

## Starter Kit

Kit includes -

- Choice of Screen size
- ZC2 Controller
- ZG100 GPS antenna
- Two Slot micro-SD chart card reader

Size	Starter Kit Order Number
16 inch	000-14006-001
19 inch	000-14008-001
24 inch	000-14010-001

### Main Features

- Easy viewing whatever the conditions, with large, low-profile, full glass display with best-in-class screen
- Ultra-bright, wide-angle Full HD Display
- Plan routes, add waypoints, or adjust course and settings using the easy-to-use touchscreen or Zeus Controller (required)
- Get more from your sailing with B&G's dedicated sailing features for cruising or racing- SailSteer, SailingTime, RacePanel, Laylines.
- Built-in, powerful processor (no black box required)
  - Integrated Wi-Fi for easy access to charts and software updates
- Choose from the widest range of charts to suit your area including C-MAP and Navionics®
- Easy networking and integration with NMEA 2000®

### Zeus Controller

B&G ZC2 Remote Controller provides intuitive keypad and rotary-dial command of up to six Zeus<sup>2</sup>, Zeus<sup>3</sup>, Glass Helm or Vulcan multifunction displays; and can be used to control a B&G autopilot via any networked display.

- High-quality aluminium control dial with built-in cursor functions
- MOB function
- Portrait or Landscape orientation
- Narrow design perfect for chart table mounting
- Dash mount with low 8mm profile
- Zero-profile flush mount with optional bracket
- Integrated high-decibel speaker for critical alarms
- Quickly switch displays with dedicated button and LED indicators





## Zeus3

The Zeus<sup>3</sup> is a complete chartplotter navigation system for blue water cruisers and regatta racers. This high-performance multifunction display features a widescreen display, incorporating SolarMAX™ HD technology for brilliant daytime visibility and ultra-wide viewing angles. To ensure reliable control in all conditions and situations, Zeus<sup>3</sup> incorporates an all-weather touchscreen that works even while wet. It combines this with an integrated rotary dial and keypad capable of controlling all display functions. Both sets of controls can be used simultaneously, or Zeus<sup>3</sup> can be switched to non-touch mode for dependable operation under the most extreme conditions. A high-performance processor enables responsive operation and quick chart redraw while moving, panning or zooming. Zeus<sup>3</sup> is powered by B&G software designed specifically for sailors, and packed with a wide array of sail-specific functionality. See all key sailing data on a single screen with SailSteer, view laylines and tacking angles overlaid on charts, and plan more accurately with Sailing Time arrival estimates that factor in the realities of travel by wind. RacePanel delivers a range race-proven functionality including integration with B&G H5000 tactical systems for additional analytical and predictive capabilities. Built-in Wi-Fi lets you access charts, weather information, software updates and online support directly from your display via any Wi-Fi internet hotspot. GoFree® Wi-Fi also lets you mirror your Zeus<sup>3</sup> screen on a compatible smartphone, and control your Zeus<sup>3</sup> display from a compatible tablet, for an extra display that you can use anywhere on board. Zeus<sup>3</sup> also connects seamlessly to a wide range of sensors, instruments, displays, expansion modules, and accessories; allowing you to create a fully-integrated electronics solution to provide greater safety, performance, and enjoyment on the water.

Size	Zeus3 Display Order Number
7 inch	000-13245-001
9 inch	000-13246-001
12 inch	000-13247-001
16 inch	000-13248-001



## Vulcan series

B&G Vulcan has an easy-to-use, intuitive, multi-touch screen. Use the familiar pinch to zoom and swipe to pan actions to explore the many benefits to make your life on the water easier and safer; add waypoints and plan your route with ease.

Dedicated Sailing features for cruising and racing with B&G's award-winning sailing functions, you can see all of your key sailing data together on one screen, or overlaid on charts for the modern sailor's ultimate navigational view. Simply add sailing instruments and sensors to activate B&G SailSteer, which will provide an intuitive graphic display of your Boat Speed, Wind data, Heading, Tide, Wind Shift Sectors and even Laylines. It's easy to add waypoints or plot a course; and with B&G SailingTime you'll see waypoint arrival times based on a sailing course and tidal effects, rather than a straight-line calculation.

Size	Vulcan series Display Order Number
7 inch	000-14082-001
9 inch	000-13214-001
12 inch	000-14149-001





## Wind Sensors

**WS320 Wireless Wind Sensor** - Designed to provide highly accurate wind data in all conditions at all points of sail and heel, B&G's new WS320 wireless wind sensor has been benchmarked against multiple different sensors in over 500 individual wind tunnel tests. It incorporates a high-performance solar panel and connects with your NMEA2000 network using Bluetooth technology.

**WS310 Wired Wind Sensor** - WS310 is a new high precision wired wind sensor, designed for cruising and club racing sailors. It offers high performance and outstanding data accuracy, with improved aerodynamics. Suitable for all yachts, it is available with 20, 35 and 80m cables.

Size	Order Number
<b>WS320 - Wireless</b>	000-14383-001
<b>WS310 - 20m cable</b>	000-14382-001



## Triton2 Sensor

### DST800 Depth, Speed, Temperature Sensor With Plastic Housing -

The DST800 is a smart and compact, thru-hull, 235kHz multisensor that offers depth, speed and temperature data. This single unit, multisensor concept provides boaters with a cost effective alternative, which only requires one hole to be placed in the hull. Network ready, the DST800 easily connects with Zeus and Vulcan systems and Triton2 instrument displays.

Size	Order Number
<b>DST800</b>	000-10960-001



## Triton2 Display

Multi-purpose sailing instrument and autopilot display with a 4.1-inch colour screen, optically bonded for zero condensation and featuring trans-reflective LCD technology for exceptional contrast and visibility in all lighting conditions. 8mm mounting height matches other B&G MFD's and system components.

Size	Order Number
<b>Triton2 Display</b>	000-13294-001



## HV Displays

- Bonded Glass Display
- Large, red digit LED display

HVision bonded displays provide ultra clear instrument information with zero condensation. HV Displays store 14 configurable pages, so whether you want to see True Wind Angle, COG or SOG, getting the crucial information in the right place is simple.

Size	Order Number
<b>10/10 HV Display</b>	000-11087-001
<b>20/20 HV Display</b>	000-11088-001
<b>30/30 HV Display</b>	000-11089-001
<b>40/40 HV Display</b>	000-11090-001

## Barometric Pressure sensor

- High-Resolution measurement of Barometric Pressure
- Industry standard compatible CAN network



Size	Order Number
<b>Barometric Pressure sensor</b>	000-11552-001



## VHF Marine Radio

**V60 VHF Radio with AIS** - Stay safe and connected with this VHF marine radio featuring a sleek design with removable fist mic, Class D DSC functionality, and built-in GPS. Keep track of nearby AIS-equipped vessels with an integrated AIS receiver.

**H60 Wireless handset** - Take remote control of your B&G V60 VHF radio, and enjoy the power of a fixed-mount system with the convenience of a handheld.

Size	Order Number
<b>V60 - Fixed</b>	000-14471-001
<b>H60 - Wireless</b>	000-14476-001



## NAIS-500 & NSPL-500

**NAIS-500** - Reduce your risk of collision with this fully integrated, Class-B AIS transponder - essential for navigating today's busy shipping lanes and congested ports. Compact in size, lightweight, fully waterproof, with low power draw and featuring multiple connections.

**NSPL-500** - Save the hassle of installing a costly second antenna and use your existing single antenna with VHF/AIS/FM, by enlisting the lightweight, compact NSPL 500 antenna splitter.

	Order Number
<b>NAIS-500 w/ GPS</b>	000-13609-001
<b>NSPL-500</b>	000-13612-001
<b>Kit w/ both above</b>	000-13963-001



## GPS

**ZG100** - Highly accurate 10Hz GPS antenna for dependable, precise positioning. Includes a heading, heel and trim sensor for expanded use.

Size	Order Number
<b>ZG100 GPS</b>	000-11048-001



## Compass

The Precision-9 Compass supplies accurate heading and rate-of-turn information to B&G autopilot, radar and navigation systems over an NMEA 2000® connection. With an internal array of solid-state sensors constantly measuring motion and orientation on nine axes, the Precision-9 also provides pitch and roll data to compatible equipment. An easily adjustable mounting bracket and single-cable connection allow simple installation aboard any vessel, including up-mast mounting suitable for steel hulls.

	Order Number
<b>Precision-9</b>	000-12607-001



## ForwardScan Sonar

This forward-looking sonar provides a clear two-dimensional image of the bottom in front of your vessel, allowing you to navigate shallow or poorly-charted waters with confidence. With real-time updates and a forward-looking view of up to eight times your current depth, ForwardScan lets you relax and enjoy a safer day on the water.

Size	ForwardScan Order Number
<b>Short stem Kit</b>	000-11674-001
<b>Long stem Kit</b>	000-13284-001



## Halo Radar

Combining the best characteristics of traditional pulse and FMCW broadband radar systems, our Halo™ Radar uses Pulse Compression technology to provide an unprecedented mix of long and short detection range, high target definition, and minimal clutter. Solid State technology means minimal warm-up time and maximum ocean-going reliability, while low-power pulsed transmissions make Halo Radar safe to run in anchorages and marinas.

- Beam Sharpening with Target Separation Control
- Dual Range operation
- Advanced signal processing with Custom, Harbour, Offshore, Weather, and BIRD modes

Size	Open Array Order Number
<b>3 foot</b>	000-11469-001
<b>4 foot</b>	000-11470-001
<b>6 foot</b>	000-11471-001



## HALO24 Radar

Halo24 revolutionizes radar by offering an almost real-time view, with industry-first 60 RPM operation at close range for the ultimate in collision avoidance. Identify hazards in an instant with VelocityTrack Doppler technology, and enjoy simultaneous short and long-range coverage up to 48 nautical miles - from one compact 24-inch dome antenna.

- Advanced pulse compression technology with beam sharpening
- Simultaneous Dual Range operation sees both near and far
- Ultra-fast 60 RPM operation at ranges up to 1.5 nm
- VelocityTrack™ Doppler technology for collision avoidance

Size	Halo Order Number
<b>HALO24</b>	000-14538-001



## Broadband Radar™

Enjoy a Crystal Clear, right up to the bow, with our incredible Broadband Radar.

- MARPA target tracking and Low power consumption
- Dual guard zones and InstantOn startup
- Extremely low emissions and quick installation
- Up to 36NM working range
- Beam sharpening
- High speed mode (48RPM)
- Advanced target detection

Size	Broadband Order Number
<b>4G Radar</b>	000-10423-001





## NAC-2 & NAC-3 Computers

State-of-the-art electronics are incorporated into B&G autopilot systems, reducing the workload when you are at the wheel. B&G autopilot systems reliably and accurately control heading using efficient turns, improving run times and reducing fuel consumption. B&G autopilot systems take the worry out of constant course corrections and is a great fit for both veteran and inexperienced boaters.

A wide array of available modular components allows users to quickly and easily build the perfect autopilot system to fit any needs. Once a system is put together, B&G autopilot acts as another trusted crew member. Whether combining a custom system or selecting a core-component pack, any boater will enjoy the advantage and freedom of a B&G autopilot system.

	Order Number
<b>NAC-2</b>	000-13249-001
<b>NAC-3</b>	000-13250-001



## Autopilot Controller

This intuitive autopilot controller keypad can be combined with a B&G Triton² Display to create a fully-featured autopilot control head. B&G's Intelligent Sail Steering functionality allows you to steer to a compass heading, or to automatically maintain a specified true or apparent wind angle in Wind mode. Smart Manoeuvre controls tacking at the touch of a button, a perfect tool when sailing shorthanded. Connect to a compatible chartplotter, and Navigation mode will steer to your currently selected waypoint or route.

A simple pushbutton interface makes the Triton² Pilot easy to operate in rough conditions, and reliably responsive to wet or gloved hands. Dedicated auto and standby buttons enable or disable the autopilot with a single press, so it's easy to free your hands from the wheel or instantly take control whenever you need to. The 'mode' button engages the pilot's Wind or Navigation auto-steering modes, while dual port and starboard buttons allow course adjustments in one-degree or ten-degree increments. Smartly shaped buttons let you distinguish between these increments at a touch, for safe operation in low visibility.

	Order Number
<b>Triton2</b>	000-13296-001



## Wireless Autopilot Remote

Stay in control, wherever you are on board. Incorporating long-range Bluetooth technology for up to 30 metres range in a compact and lightweight package, the WR10 wireless remote works with Simrad, Lowrance, or B&G autopilot systems to enable precise heading adjustments and autopilot control. The WR10 is compatible with NAC-1, NAC-2, NAC-3, B&G Triton, and B&G H5000 autopilot systems. It makes the perfect wireless companion to a dedicated autopilot head unit or multifunction display.

The WR10 offers a simple do-it-yourself upgrade to any B&G Triton or H5000 system. The included BT1 Bluetooth base station quickly connects to your boat's NMEA 2000® network with its plug-and-play Micro-C connector: there's no need for any complex wiring, or an external power supply. Offering up to 30m range and can be paired with up to four WR10 remotes.

	Instruments Order Number
<b>WR10 Kit</b>	000-12316-001
<b>Base only</b>	000-12359-001
<b>Remote only</b>	000-12358-001

H5000 instruments and autopilot system brings together sailing-specific features and powerful race-proven technology with speeds of up to 50 times greater than that of its race-winning predecessor, the H3000.

### H5000 Hydra CPU



#### Key Features

- **Ultra-fast ARM Processors** - The CPU achieves speeds of up to 50 times that of its predecessor, for rapid calculation, real-time data and fast updates; each with the trademark B&G precision
- **Performance Wind Filter** - Provides stable, accurate wind data for displays and the autopilot.
- **Flexible configuration** - Tailor your Hydra setup to suit your application. H5000's wide compatibility provides swift, seamless integration with other instruments and electronics across the B&G marine network including AIS, radar and chartplotters
- **Browser-based set-up** - The CPU features browser-based setup via the new H5000 interface for fast, efficient and hassle-free commissioning and calibration
- **GoFree™ Wireless Technology** - Expand Hydra's functionality even further with third-party apps and stream data via GoFree, B&G's powerful wireless solution to remotely view H5000 instrument data via your tablet or smartphone. Requires wireless module.
- **LED status indicators** - Status indicators on the CPU provide a clear indication of system status

### H5000 Hercules CPU



Hercules is packed with all the powerful features of the Hydra system, but adds unique functionality for serious racers.

### H5000 Performance CPU



Performance is packed with all the powerful features of the Hydra and Hercules systems, adding unique functionality for larger racing yachts and Superyachts

### H5000 Race Display



#### Key Features

- **Bright, 5-inch bonded LCD display**  
The transreflective H5000 Race Display is highly visible both in bright sunlight and at night.
- **Visual Target Indicator**  
The Race Display's unique bar graph gives you an instant visual on target data, start time and more.
- **Low Power**  
Incredibly low power draw – perfect for offshore racing and blue water cruising.
- **Tough Design - Built to last**  
No external metal parts and completely corrosion resistant, providing you with the peace of mind it can weather the elements – whether the spray of the race or the heat of the sun.
- **Seamless networking**  
The H5000 Race Display is NMEA 2000® compatible for ease of integration into your existing network.

### H5000 Graphic Display



#### Key Features

- **Unique Sailing Features**  
SailSteer, Start Line, WindPlot for tracking weather trends, Laylines, MOB and more to enhance your racing or cruising experience.
- **Smart, Straightforward Menus**  
Completely redesigned operating system provides straightforward access to powerful, easy to understand, sailing features.
- **Bright, Colour Display**  
Tough bonded glass, AR coated, 5-inch colour display; sunlight viewable by day and with backlight dimming down to almost zero for comfortable night time viewing.
- **Seamless networking**  
The H5000 Graphic Display is NMEA 2000® compatible for ease of integration into H5000 systems and your existing network.
- **Tough design - built to last**  
Tough, corrosion free, thermoplastic and glass construction providing you with the peace of mind it can weather the elements – whether the spray of the race or the heat of the sun.

### H5000 Pilot Controller



#### Key Features

- **Dedicated Pilot control**  
Developed to complement the H5000 Pilot Computer, this Controller manages every function of this powerful and trusted tool – from commissioning to control.
- **Glass-bonded monochrome display**  
The bonded glass LCD display is tough, waterproof and condensation-resistant in the most testing environments with high-resolution monochrome screen, with wide viewing angle, for optimum readability and clear presentation of Pilot data in all light conditions.
- **Straightforward interface**  
The controller's dedicated keypad and intuitive operation makes commissioning and control of the Pilot straightforward, flexible and convenient.

### H5000 Pilot Computer



#### Key Features

- **Selectable steering modes**  
The H5000 Pilot CPU lets you elect to steer to Heading, Wind or Waypoint.
- **AWA and TWA steering**  
The H5000 Pilot CPU can utilise Apparent, True or Polar wind modes for optimum performance under sail.
- **Intuitive and responsive**  
Provides gust and high-wind response modes for rapid response to changing conditions.
- **Optimum course keeping**  
Features auto response switching and recovery mode for optimum course keeping in varying sea-states.

### Precision



Wide selection of the highest quality sensor - Wind, Speed, Depth, Heading, Barometer, 3D Motion and more.

### Analogue



From Apparent Wind Angle, True Wind Angle, True Wind Speed, Apparent Wind Speed, Boat Speed, Heading, Depth and Rudder Angle.

### WTP-3



**Wave Technology Processor**  
The WTP3 system provides an integral and essential part of your vessel. A powerful Computer Processing Unit (CPU) links to data acquisition modules which collect and feedback to the CPU.

### V90S VHF Radio



B&G's powerful V90S VHF radio blends intelligent design with advanced engineering in a rugged, reliable and feature-packed sailing communications device.



## Marine Sound Goes High-End

You will find our speakers in the world's finest boats... and in the best sounding ones, too!

To build the world's finest marine speakers, all materials, assemblies and completed systems are tested using advanced salt-fog and UV test equipment, which simulate years of exposure to the elements. JL Audio's environmental longevity standards far exceed typical industry standards to ensure years of consistent performance in your boat.

Engineering, environmental testing and assembly all take place in our Miramar, Florida facility, ensuring consistent process control and component part quality.



### Source Units

Superb audio performance, excellent ergonomics and advanced audio features, specifically designed for marine applications. Our total audio solution is controlled by our premium range of source units. These stylish source units are feature packed ready to deliver your favourite music across all maritime conditions.

- MediaMaster
- Bluetooth Receivers and Controllers
- Hidden Receivers
- Wireless Remote controllers



### Speakers

JL Audio offers two series of marine speaker systems: M and MX. The MX-Series handily outperforms conventional marine speaker systems and is sized to work as a direct replacement for them. The M-Series products are maximum-performance, no-holds-barred speaker systems with higher power handling, a larger tweeter and greater output capability.

If you're tired of replacing cheaply made speakers every year and want to step up to a quality marine listening experience, you have found the right products to make it happen.



### Amplifiers

JL Audio has tackled the challenges of marine amplifier design with the same commitment to engineering and innovative thinking that we apply to our speaker designs.

For us, it isn't enough to repackage circuits and technologies that have been around for decades... our customers expect more.

Our cutting-edge marine amplifiers fully deliver the benefits of full-range switching technology. In addition to world class sonic quality, they offer outstanding efficiency, which results in small size and less current draw per watt. Each series offers a wide range of models to fit the needs of any serious marine audio installation.



### Subwoofers

Do you really need a subwoofer in a boat? The short answer is: "Absolutely!".

In fact, you need it more than in any other audio environment.



### YOUR COMFORT ON BOARD

Replace hand pump toilets easily, with more features and more reliability, and just as comfortable as your toilet at home!

### ECOLOGY

Its unique efficient maceration and pumping system makes it the ideal way to dispose of black water and ensures that you comply with the requirements of current legislation prohibiting discharge into the sea.

### QUIET

The quietest electric toilet on the market, ensuring that users are comfortable all the time.

### USES LESS WATER AND LESS ELECTRICITY

With its efficient flushing system, water consumption is reduced to a minimum. Its very low electricity consumption helps the boat to run for longer.

### STURDY

Sanimarin benefits from the unique experience and expertise of the SFA Group, who invented this maceration system and have been the leading designer and manufacturer since 1958. A true guarantee of reliability!



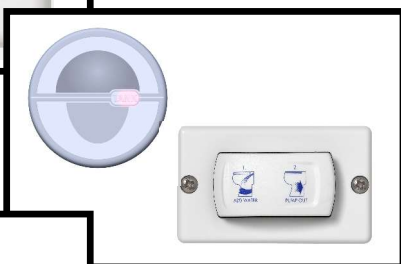
## Control Panels



A new single Control Console that is even more efficient and smarter to look at, while remaining just as easy to use! Among its main features:-

- A "Tank Full" indicator light showing that the black water tank is full (optional connection to your black water tank gauge)
- An economical flushing cycle that uses just 1.2 litres of water
- A normal flushing cycle that uses 2.2 litres of water, adjustable up to 3 litres
- Empty : key pressed to empty the bowl completely in rough seas
- Choice of colours : Black, White, Chrome or Brown

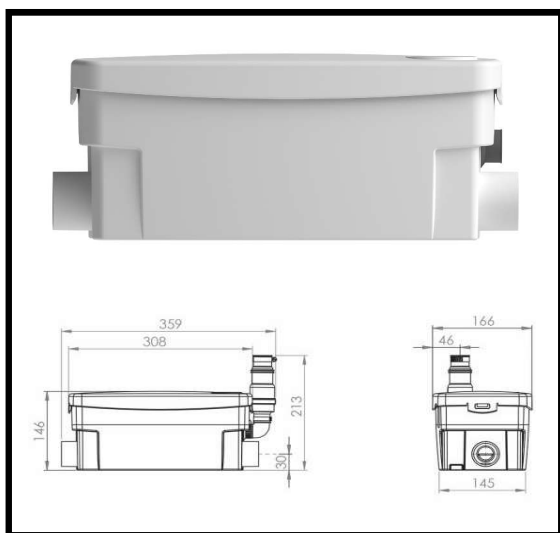
Comes Standard  
with any Toilet  
purchase



Two-position electric switch : rinsing / maceration and pumping, with the duration of each cycle controlled by the user.



Ideal for boats with multiple users, the Pneumatic push button triggers an automatic flushing cycle.



## SaniMarin Pump

Essential when installing a shower or a sink, a Sanimarin Pump makes it easy to collect waste water on board boats. With its 4 metre long discharge pipe with a diameter ranging from 22 to 32mm, it can be installed either above or below the sea level. Its sturdy design means it can pump waste water at a maximum temperature of 35°C at an average rate of around 70 L/min (12V).

- Small dimensions
- Two low inlets
- Integrated active carbon filter
- Low activation level
- Quiet operation 46dB
- Reduces the number on hull valves

Order Number	Description
SNpump-12v	12 volt SaniMarin Pump
SNpump-24v	24 volt SaniMarin Pump



## Exclusive Medium

Only 355mm wide and 522mm deep, this SANIMARIN solution with a sleek and attractive design, is comfortable and looks good, perfect for both owners and manufacturers of luxury boats. This standard height toilet comes with the latest SANIMARIN innovations such as the brand new highly efficient rinsing system.

- A 360° powerful flushing system
- Horizontal pumping distance - 30m
- Pumping height - 3m
- Quiet Acoustic pressure - 52 dB(A)
- Current consumption - 12 V (300 W) 25 A
- - 24 V (360 W) 15 A
- Weight - 26 KG
- **2 YEAR WARRANTY**

Order Number	Description
<b>SM EX M 12</b>	12 volt Exclusive Medium Toilet
<b>SM EX M 24</b>	24 volt Exclusive Medium Toilet



## 31 Toilet

SANIMARIN is extremely compact, which means it can be installed whatever your space constraints on board. Its compact size (310mm high, 370mm wide and 430mm deep), which takes up very little floor space, means it fits easily in all spaces.

- Horizontal pumping distance - 30m
- Pumping height - 3m
- Quiet Acoustic pressure - 52 dB(A)
- Current consumption - 12 V (300 W) 25 A
- - 24 V (360 W) 15 A
- Weight - 17 KG
- **2 YEAR WARRANTY**

Order Number	Description
<b>SN31-12</b>	12 volt 31 Toilet
<b>SN31-24</b>	24 volt 31 Toilet



## MaxLite + Toilet

As well as being highly efficient, its new design means it can very easily replace any hand pump toilet almost to the exact centimetre, without having to install any new pipes. Its injection moulded bowl makes it the lightest of all marine toilets. It can also be placed in any position. These are both major advantages when it comes to trying to keep weight down and saving space on boats. The integral sea water pump is a major advantage which makes the unit very attractive in terms of value for money.

- Horizontal pumping distance - 30m
- Pumping height - 3m
- Raw water pump included in the system
- Current consumption - 12 V (300 W) 25 A
- - 24 V (360 W) 15 A
- Weight - 8 KG
- **2 YEAR WARRANTY**

\*Comes Standard with Two-position Electric Switch

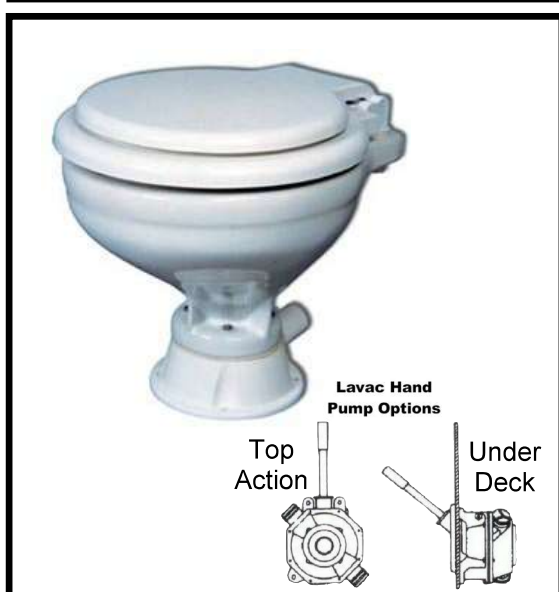
Order Number	Description
<b>SNMaxlite-12</b>	12 volt MaxLite + Toilet
<b>SNMaxlite-24</b>	24 volt MaxLite + Toilet

## Vacuum Toilet

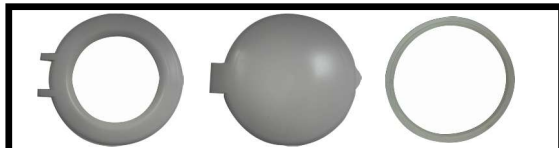
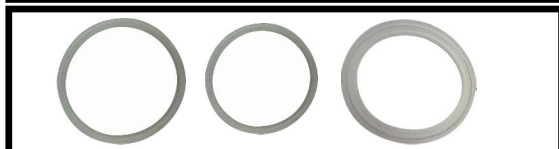
### Popular Toilet

Since 1963, The Lavac Toilet has been a favourite with sailors throughout the world, providing their owners with long and trouble free use. The Lavac toilet is one of the simplest marine toilets to operate and requires virtually no maintenance.

- Vacuum flushing
- No moving parts
- Well-proven marine toilet will give continuous trouble free service
- Can be installed above or below the waterline
- Suitable for holding tanks applications due to it minimal use of flushing water



Order Number	Popular Toilet Description
<b>TLZ0801</b>	With Top Action pump
<b>TLZ0802</b>	With Under Deck pump
<b>TLZ0809</b>	With NO pump



Order Number	Description
<b>TLZ0854</b>	Popular Manual/Electric Universal Spares Kit (Mark V Style Pump)
<b>TLZ8068</b>	Popular Lid/Seat/Hinge/Seals Combo Kit
<b>TLZ8066</b> <b>TLZ8065</b> <b>TLZ8067K</b>	Popular Lid Seal Only Popular Seat Seal Only Popular Lid and Seat Seal
<b>TLZ9010</b> <b>TLZ9005</b>	Bowl Pedestal Gasket Pedestal Base
<b>TLZ9090</b> <b>TLZ9095</b> <b>TLZ0951</b>	Lavac Manual T/A Hand Pump Lavac Manual U/D Hand Pump Lavac T/A or U/D Manual Pump Repair Kit
<b>TLZ0952</b>	Zenith Manual/Electric Universal Spares Kit (Mark V Style Pump)
<b>TLZ9075</b> <b>TLZ9070</b> <b>TLZ9065</b>	Zenith Toilet Lid only Zenith Toilet Seat only Zenith Toilet Seat or Lid seal
<b>SCXP110C</b> <b>SCXP210C</b>	¾ inch Bronze Sea Cock 1 ½ inch Bronze Sea Cock





## Shock Mitigation & Seat Suspension units

### Shock Mitigation by all means

Born out of a personal wish to have a safer, more comfortable ride aboard a motor boat, our shock mitigation units significantly reduce the shock on the body from harsh wave impacts.

We have been manufacturing solid dependable marine and aerospace equipment for more than 50 years. This experience of developing, testing and refining products to survive in harsh marine environments has been key to our success. Our units are now being used all over the world in personal and light commercial craft.

Our system has been designed to be easily retro-fittable with little to no alterations needed on the boat. This is by far the most cost effective way of meeting the current whole body vibration legislations.



#### P-Series

The SHOCK-WBV: "P" series has been designed specifically to fit on all standard pedestals and has pre-machined bolting slots to reduce fitting time to as little as 10 minutes. As some pedestals are tall and thin, they can become unstable.



#### R-Series

The SHOCK-WBV: "R" series has been designed specifically to fit on RIB inflatables with longer narrower seats.



#### C-Series

The SHOCK-WBV: "C" series has been designed specifically for Commercial vessels, giving support over larger seats, with coastal boats and SAR units. With excellent lateral support.

### 3 different Types within the Series

- *DNM Spring Shock*  
Entry-level shock absorber, only allows adjustment for stiffness and rebound.

- *DNM Air Shock*  
Mid-level shock absorber, allows passengers to alter the characteristics of the shock absorber.

- *Fox Float EVOL Shock*  
Performance level shock absorber, allows passengers to tune the shock to sea state on any given day.

#### Benefits

- Proven Performance
  - Retro-fit Design
- Increased comfort
  - Low cost

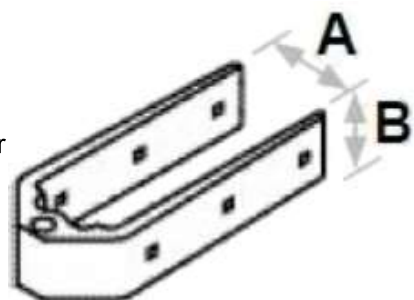
#### Designed for

- Leisure use
  - Coach Boats
- Commercial/ Coastal/ SAR use
  - Coastguards & Pilots

#### Extensively Tested

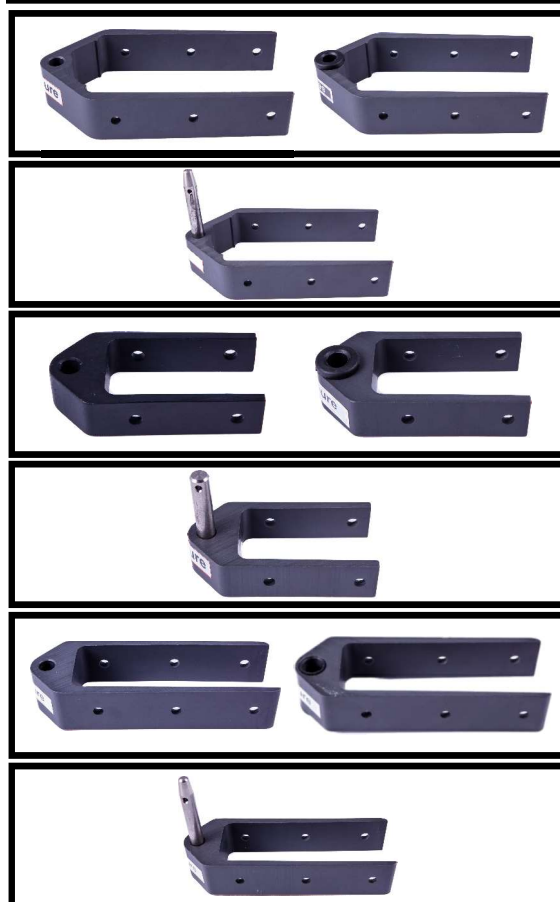
- In-house drop test facility
  - In-house static testing
    - On water testing

Fitted by Olympics and championship boat builders and sailors around the world. The choice of champions!  
 Precision machined, tough, reliable, lightweight and manufactured from heat treated corrosion resistant Aluminium alloy  
 Hard grey anodising with excellent scratch resistance compared with silver or black soft anodising  
 Optional low friction carbon bushes eliminate play  
 Pintles are cross pinned for rigidity and security  
 Range of packing pieces to achieve correct width requirements.



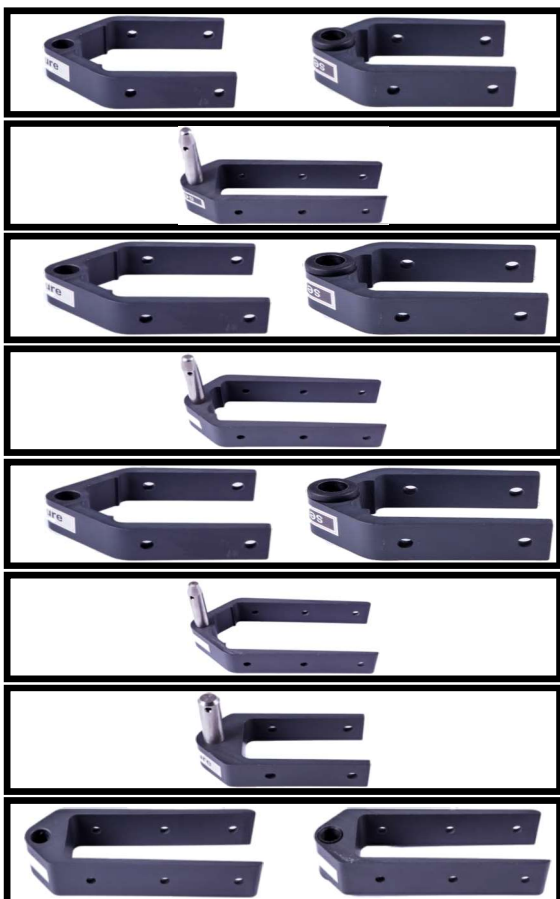
Order	Description	Dim. A	Dim. B
<b>18.00</b>	Top rudder gudgeon, 2-hole mounting (18.00B with carbon bush)	25mm	19mm
<b>18.01</b>	Top rudder pintle, 2-hole mounting	25mm	19mm
<b>18.02</b>	Bottom rudder gudgeon, 3-hole mounting (18.02B with carbon bush)	25mm	25mm
<b>18.03</b>	Bottom rudder pintle, 3-hole mounting	25mm	25mm
<b>18.04</b>	Top rudder gudgeon, 2-hole mounting (18.04B with carbon bush)	38mm	19mm
<b>18.05</b>	Top rudder pintle, 2-hole mounting (18.05D - Drop Nose)	38mm	19mm
<b>18.06</b>	Bottom rudder gudgeon, 3-hole mounting (18.06B with carbon bush)	38mm	25mm
<b>18.07</b>	Bottom rudder pintle, 3-hole mounting	38mm	25mm
<b>18.08</b>	Top rudder gudgeon, 2-hole mounting (18.08B with carbon bush)	54mm	19mm
<b>18.09</b>	Top rudder pintle, 2-hole mounting (18.09D - Drop Nose)	54mm	19mm

## 8mm (5/16") Rudder Fittings



Order	Description	Dim. A	Dim. B
18.10	Bottom rudder gudgeon, 3-hole mounting (18.10B with carbon bush)	54mm	25mm
18.11	Bottom rudder pintle, 3-hole mounting	54mm	25mm
18.43	Top rudder gudgeon, 2-hole mounting (18.43B with carbon bush)	32mm	19mm
18.44	Top rudder pintle, 2-hole mounting (18.44D - Drop Nose)	32mm	19mm
18.45	Bottom rudder gudgeon, 3-hole mounting (18.45B with carbon bush)	32mm	25mm
18.46	Bottom rudder pintle, 3-hole mounting	32mm	25mm

## 10mm (3/8") Rudder Fittings



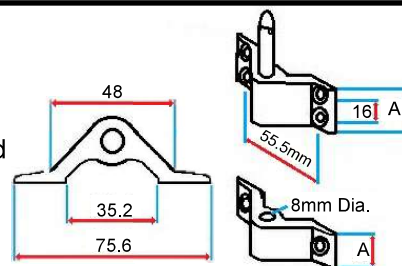
Order	Description	Dim. A	Dim. B
22.00	Top Rudder gudgeon, 2-hole mounting (22.00B with Carbon bush)	25mm	19mm
22.03	Bottom Rudder pintle, 3-hole mounting	25mm	25mm
22.04	Top Rudder gudgeon, 2-hole mounting (22.04B with Carbon bush)	38mm	19mm
22.07	Bottom Rudder pintle, 3-Hole mounting	38mm	25mm
22.08	Top Rudder gudgeon, 2-Hole Mounting (22.08B with Carbon bush)	54mm	19mm
22.11	Bottom Rudder pintle, 3-Hole Mounting	54mm	25mm
22.44	Top Rudder pintle, 2-Hole Mounting	32mm	19mm
22.45	Bottom Rudder gudgeon, 3-hole mounting (22.45B with Carbon bush)	32mm	25mm












## 8mm (5/16") Transom Fittings

The choice of champions! Fitted by Olympic and championship boat builders and sailors around the world, when only the best will do. Sea Sure rudder and transom fittings are precision machined, tough, reliable, lightweight and manufactured from heat treated, corrosion resistant aluminium alloy, with hard grey anodising for complete protection. Pintles are cross pinned for rigidity and security, and a range of packing pieces are available to achieve the correct width requirements. As well as the original 8mm range, we now have a new 10mm range with 10mm diameter pintles and gudgeons.



Order	Description	Dimensions A
<b>18.12</b>	Top Transom gudgeon, 2-hole mounting 6mm diameter mounting holes	22mm
<b>18.12B</b>	Top Transom gudgeon, 2-hole mounting 6mm diameter mounting holes with carbon bush	22mm
<b>18.13</b>	Top Transom pintle, 2-hole mounting 6mm diameter mounting holes (18.13D - Drop Nose)	22mm
<b>18.14</b>	Bottom Transom pintle, 4-hole mounting 5mm diameter mounting holes (18.14D - Drop Nose)	29mm
<b>18.15</b>	Bottom Transom gudgeon, 4-hole mounting 5mm diameter mounting holes	29mm
<b>18.15B</b>	Bottom Transom gudgeon, 4-hole mounting 5mm diameter mounting holes, with carbon bush	29mm
<b>18.16</b>	Top Transom gudgeon, 2-hole mounting 5mm diameter mounting holes	22mm
<b>18.16B</b>	Top Transom gudgeon, 2-hole mounting 5mm diameter mounting holes, with carbon bush	22mm
<b>18.17</b>	Lightweight Top Transom gudgeon, 2-hole mounting 5mm diameter mounting holes	13mm
<b>18.18</b>	Lightweight Top Transom pintle, 2-hole mounting 5mm diameter mounting holes	13mm

## 10mm (3/8") Transom Fittings

	Order	Description	Dimensions A
	22.12	Top Transom gudgeon, 2-hole mounting 6mm diameter mounting holes	22mm
	22.12B	Top Transom gudgeon, 2-hole mounting 6mm diameter mounting holes with carbon bush	22mm
	22.13	Top Transom pintle, 2-hole mounting 6mm diameter mounting holes	22mm
	22.14	Bottom Transom pintle, 4-hole mounting 5mm diameter mounting holes	29mm
	22.15	Bottom Transom gudgeon, 4-hole mounting 5mm diameter mounting holes	29mm
	22.15B	Bottom Transom gudgeon, 4-hole mounting 5mm diameter mounting holes, with carbon bush	29mm



Order Number	Description
18.19	Plastic rudder retaining clip
18.20	Stainless steel rudder retaining clip, 0.6mm material
18.21	Stainless steel rudder retaining clip, 1.0mm material
18.26P	Black Nylon wing nut, M6
18.28P	Black Nylon wing nut, M8
18.28	Stainless steel wing nut, M6
18.29	Stainless steel wing nut, M8
18.39	Spare carbon gudgeon bush
18.38	"R" Clip

Order Number	Description
18.52	Transom packing piece, 2 hole 5.0 mm thickness
18.54	Transom packing piece, 4 hole 5.0 mm thickness
18.33	Transom packing piece, 2 hole 6.3 mm thickness
18.35	Transom packing piece, 2 hole 1.8 mm thickness
18.36	Transom packing piece, 2 hole 3.2 mm thickness
18.37	Transom packing piece, 2 hole 5.0 mm thickness
18.30	Transom packing piece, 3 hole 1.8 mm thickness
18.31	Transom packing piece, 3 hole 3.2 mm thickness
18.32	Transom packing piece, 3 hole 5.0 mm thickness
18.34	Transom packing piece, 3 hole 6.3 mm thickness



## Tiller Lock

### Classic Cruiser Tiller Lock - Midshipman

Suitable for any tiller steered yacht or sports boat.

Simple mechanism allows tiller to be set and adjusted - indispensable for short-handed sailing. The Snubber/bungy in the rope means it holds far better course than simply lashing the tiller. The rope knock-out design means it can be quickly disconnected in an emergency.

The device consists of a sheave and lever cam with a toothed slider, mounted in a block which is fitted beneath the tiller. The rope is fitted across the after part of the cockpit with a means of keeping it under tension. When locked onto the rope, the toothed slider prevents the tiller from moving in either direction.

Releasing the lock (by turning the lever to port) immediately frees the tiller and allows the rope to ride freely over the sheave for manual steering. In an emergency, or when the device is not required, the rope can easily be snapped out of the block with a downward pull, clearing the tiller.



Order number	Description
<b>19.27</b>	Tiller Lock

## SuperSuck Bailer

Few dinghies can sail fast enough to windward particularly in rough weather or half full of water, for a wedge type bailer to operate well.

Based on the venture principle the Supersuck bailer literally sucks the water from the boat even at low speeds. It has a higher pumping capacity than traditional bailers and creates less drag. This means you have a lighter boat which accelerates more quickly than the opposition giving real race advantage.

The bailers have a robust construction, using 316 stainless steel and high grade plastics for a long trouble free life.

Weights: 187g (19.90); 220g (19.92)



Order number	Description
<b>19.90</b>	Externally mounted bailer
<b>19.91</b>	Seal kit for 19.92
<b>19.92</b>	Internally mounted bailer
<b>19.92</b>	Seal kit for 19.90

# GFR Series

With Admiral GFR Series, you can easily put on and take off the line on your gennaker furler.

The GFR series furlers are designed for asymmetric spinnakers.

They are also made of high quality aluminium (6082T6) and anodized against corrosion.

In the beddings, torlon and stainless steel balls are used.

The rubber part on the swivel prevents banging against the mast; and the split part on the drum allows the line to be easily taken out and put in the drum; without having to disassemble the continuous line assembly on the deck.

The furlers are very powerful and have a very high safety limit (the breaking point is 2.5 times the safe working load).

They come in 4 models:

Model	Boat length in metres	Boat length in feet
GFR1	6 - 10	20 - 33
GFR 2	10 - 14	33 - 46
GFR 3	14 - 21	46 - 70
GFR 4	21 - 29	70 - 95



# GF Series

With Admiral GF Series, you can easily put on and take off the line on your gennaker furler.

Model	Boat Length	Working load
GF 1	6 - 10 m / 20 - 33 feet	1600kg
GF 2	10 - 14 m / 33 - 46 feet	2800kg
GF 3	14 - 21 m / 46 - 70 feet	5200kg
GF 4	21 - 29 m / 70 - 95 feet	7800kg



# Race & Reef Genoa Furler

The distance between the foot of the sail and the deck is usually about 25 cm to 40 cm on the standard furling systems used on the deck.

The racing boats with furling systems have a special need to minimize the distance between the foot and the deck.

To fill that need the furling producers have developed and released the race furling systems. However in these new race furling systems, the Genoa can only be entirely furled or unfurled; therefore it is not possible to reef and use the Genoa in various sizes depending on the strength of the wind.

On the drum that rolls the furlers, there is just one line of rope and when trying to reef, the rope slips back making it impossible to reef.

Admiral Marine Equipment has developed the Race & Reef Furling Systems that made it possible to:

- 1) Minimize the distance between the foot of the sail and the deck,
- 2) Reef and use the Genoa in any size depending on the strength of the wind.

Model	Stay Ø
RRO 35	6 - 8mm
RRO 44	10 - 12mm



# Rollmaster Furler

Rollmaster is a manual furling system with reduction.

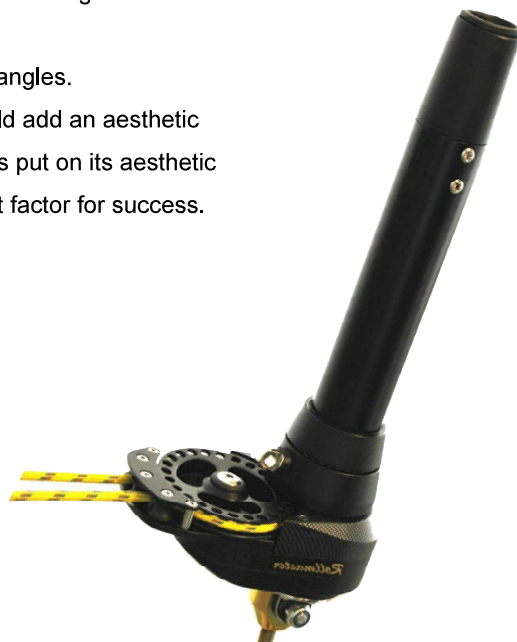
The aim of Rollmaster is to enable sailors to save their power and endurance; not to get exhausted while dealing with the forces of nature; and give them joy of sailing. The force required to roll the sail with this system is only half of what is required for the standard manual systems. The size of the driving drum with the 1/3 reduction system; has been reduced so that only ½ the force is required in comparison to the standard manual furlers.

In the sample product; the driving drum on the 1/3 reduction, having a 109 mm diameter; requires only ½ of the force of an equivalent standard system. Should the same power be obtained without the reduction; then the driving drum would have a diameter of 327mm. Due to the reduction of the size of the driving drum, the starboard-portside dimension of the Furler is also decreased; thus interference of the anchor handle connected to the windlass and the driving drum, is prevented and the foot of the sail can be lowered as much as possible; and serious gain in the sail area at the foot of the sail which has the least heeling effect on the boat, is obtained.

The lower connecting sheets can be rotated and fixed at all positions of 30° angles.

It is desired that especially the most eye-catching equipment on boats, should add an aesthetic value to the unity of the boat. When Rollmaster was designed; emphasis was put on its aesthetic look, along with its functional advantages. Reliable equipment is an important factor for success.

Model	Stay Ø
ROM 35	6 - 8mm
ROM 44	10 - 12mm





# Genoa Furler

## Electric (AE - Series)



- Admiral Electric Furlers are made of corrosion-resistant aluminium and anodised.
- The stainless steel parts are AISI quality stainless steel.
- The gears are certified aluminium-bronze alloy.

Electric Drives Model	Forestay Ø
AE 500 / 12v - 24v	10 - 12 - 14mm
AE 1000 / 24v	14 - 16 - 19mm
AE 1500 / 24v	22 - 26mm

## Hydraulic (AH - Series)



- Admiral Hydraulic Furlers are made of corrosion-resistant aluminium and anodised.
- The stainless steel parts are AISI quality stainless steel.
- The gears are certified aluminium-bronze alloy

Hydraulic Drives Model	Forestay Ø
AH 12	10 - 12 - 14mm
AH 32	14 - 16 - 19mm
AH 40	22 - 26mm

# Genoa Furler

## Round Profile (R - Series)



Model	Stay Ø
R 30	4 - 5mm
R 36	6 - 8mm
R 45	10 - 12mm
R 54	14 - 16mm

## Oval Profile (RO - Series)



Model	Stay Ø
RO 35	6 - 8mm
RO 44	10 - 12mm

# Professional Series Furler

Admiral Professional Furlers are special design furlers which are mounted very close to the deck, allowing a maximum luff length.



Model	Stay Ø
PRO 35	6 - 8mm
PRO 44	10 - 12mm

## Mainsail Furler

With Admiral Mainsail Furlers you can furl and unfurl your main sail without heading to wind. Electric and hydraulic mainsail furlers are custom produced upon order.

Admiral Mainsail Furlers consist of standard manual and inmast as well as hydraulic and electric types which are for masts over 25 m long.

With these systems which are out of the mast, on boats with 2,3 or 4 pieces of sail, you can furl your sail or reef it just by loosening the boom, without turning to the wind and without damaging the other sails.

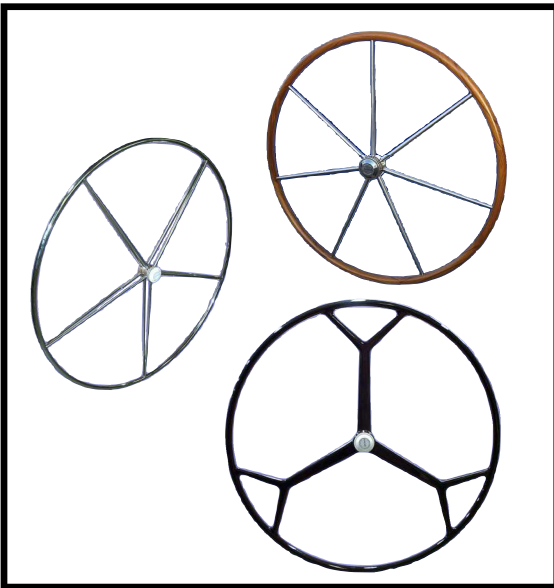
Model	Stay Ø
AR 36	6 - 8mm
AR 45	10 - 12mm
AR 54	14 - 16mm





# Steering & Bearing

## **Stainless Steel, Aluminium, Carbon and Wood Steering Wheels**



Standard Jefa Steering wheels are produced in stainless steel 316 and are available in polished version and covered with leather.

The Jefa Aluminium 6082 steering wheels are produced without any welding at all and are only available with a fitted leather cover.

Jefa Carbon wheels are light, stiff and strong construction as the carbon fibres overlap in the wheel without any joints at all.

The teak rimmed Jefa steering wheels are equipped with stainless steel 316 spokes and hub and cover a range from 700 mm to 1000 mm overall diameter in steps of 100 mm. The teak rim is painted with a 2 component polyurethane paint.

## **Cable steering components and pedestals**



- WP100 to 400 cable steering pedestals
- WP800 Racing steering pedestals
- WP850 "A" Frame steering pedestals
- WP900 Swinging steering pedestals
- Bulkhead steerers
- Chain and Wire sets
- Cross wire and parallel wire idlers
- Open wire sheaves
- Radial and 80 degree Quadrants
- Conduit fittings, cable and terminal units

## **Rack and Pinion Steering Components and Pedestals**



- WP100 to 400 rack and pinion steering pedestals
- Stop ring and rack and pinion geometry
- Draglinks
- Tiller levers and autopilot levers
- Rack and Pinion extension tube



## Transmission Steering Components and Pedestals

- TS100 to 400 transmission steering pedestals
- Steering bevel boxes
- Bevel boxes
- Transmission autopilot drive
- Bevel reduction gear boxes
- Reduction gear boxes
- Universal joints, torque tubes & flange bearings
- Draglinks
- Tiller levers



## Hydraulic Steering Components and Pedestals

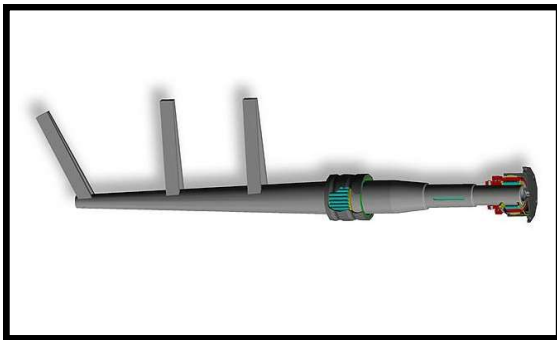
- H200 to 400 hydraulic steering pedestals
- Hydraulic cylinders and accessories
- Tiller levers and autopilot levers



## Autopilot Drive Units

- Linear drive autopilot drive units ( 20' to 45' )  
(to combine with all mechanical steering systems)
- Direct drive autopilot drive units (30' to 70')  
(to combine with all mechanical steering systems)
- Transmission drive units (30' to 95')  
(to combine with transmission steering systems)
- Sprocket drive units (30' to 75')  
(to combine with cable steering systems)
- Compact autopilot drive unit ( 20' to 45' )  
(to combine with rack & pinion steering systems)

Please contact us about any Jefa Steering



### Rudder Stocks in Aluminium and Stainless Steel

As every rudder stock is different, we always produce them to the specific customer requirements. In general the designer of the yacht specifies the material and dimensions. We can be of assistance if a calculation for a different material is required or if the design has to be modified for a more economic production.



### Roller Bearings, Self-aligning Roller Bearings and Custom Made Bearings

Choose from: bottom roller bearings, self-aligning bottom roller bearings, conical self-aligning bottom roller bearings, top roller bearings, self-aligning top roller bearings, top roller bearings with cover for emergency tiller and lock ring on ball race, self-aligning top roller bearings with cover for emergency tiller and lock ring on ball race, GPR self-aligning bottom roller and custom made roller bearings.



### Sealing Systems: Lip Seals, Gaiters, O-rings and Rudder Tubes

The sealing system is one of the most important parts of the rudder system. A leaking sealing system is irritating and dangerous. A lot of development has been done in the last decade to guarantee a problem free system. The best solution is a sealing system that doesn't rely on the position of the shaft (like a Gaiter) or to use a seal or tube in the inner housing that will move together with the shaft.



### Tiller Heads, Emergency Tillers and Locking Rings

Tiller heads are available in two sizes. The bases of the tiller heads are made from anodised seawater resistant aluminium 6082 (AlMgSi1), the U-profile for the tiller is made of stainless steel 316.

Locking rings are made of anodised seawater resistant aluminium 6082 (AlMgSi1) and contain stainless steel set screws to achieve a perfect locking on the shaft. Between a locking ring and the bearing we always supply a delrin ring for a smooth rotation. For super smooth running applications we can supply a delrin ring with a ball race.

Emergency tillers are made of seawater resistant aluminium 6082 (AlMgSi1). Special shapes and types can be made upon request.





### Washers with a Ball Track

The Jefa washers with a ball track are used in combination with a locking ring to provide a smooth and light running vertical locking system.

The washer with balls replaces the standard delrin ring which acts as a gliding bearing and is normally positioned between the top bearing and locking ring above.

The washer with balls is made of delrin and the balls are made of delrin.

The maximum working load varies depending of the diameter from 100 to 300kg.



### Deck Covers for Emergency Tillers

Deck covers for emergency tiller, made in black or silver anodised aluminium 6082 from solid bar ( not cast). The covers can be released with a winch handle.



### Stainless Steel and Aluminium Sleeves

The Jefa rudder sleeves are made from tubular bar machined at the in- and out-side. The inside is machined to a "gun barrel" shape for the best bonding to the rudder shaft. The outside is machined to a tolerance of +0.00-0.05 mm. The Jefa sleeves are made to suit the specific requirement in stainless steel 316 and anodised aluminium with a wall thickness of 3 to 3.5 mm.

Please contact us about any Jefa Bearing



### Micropur Classic

Micropur prevents the growth of germs and the development of smells in drinking water containers and pipes. The effect of Micropur is based on the bacteriostatic and bactericidal properties of silver. Unlike chlorine, which is only effective for a few hours in water, silver ions will preserve water for up to 6 months. The silver ions cling to the cell walls of micro-organisms thus hindering their growth. Micropur can be used wherever water remains in a system for a long time (air conditioners, heating systems, humidifiers, wells, water tanks, water baths, incubators etc.). Ideal for conserving water in boats, campers, caravans, and also for treating water in hotel rooms. For clear, not for cloudy water as suspended matter can weaken the effect of silver ions. Use a Katadyn Microfilter for cloudy water.

Order #	Product	Content	Dosage
K52001	MC 100P - Powder	10g P = 100L	1g/ 100L
K52301	MC10,000P – Powder	100g P = 10000L	1g/ 100L
K5310	MC50,000P - Powder	500g P = 50000L	1g/ 100L



### Micropur Forte

Micropur Forte disinfects clear water quickly and safely keeping it germ-free for up to 6 months. Due to the strong oxidizing power of chlorine, most protozoa and fungi are eliminated as well as bacteria and viruses. Micropur Forte can be used wherever microbiologically unsafe water for drinking, cooking and washing needs to be disinfected. It is also ideal for conserving water in water tanks, water baths, air conditioning systems, heating systems, humidifiers, wells, incubators and more. For clear, not for cloudy water as suspended matter can weaken the effect of chlorine and silver ions.

Order #	Product	Content	Dosage
K56000	MF1000F - Liquid	100ml = 1000L	1ml/ 100L
K8013702	MF10,000 – Powder	100g P = 10000L	1g/ 100L
K8013703	MF50,000 - Powder	500g P = 50000L	1g/ 100L



### BeFree Water Filter

With the BeFree™ Filter, you no longer have to worry about where your next drink will come from. Just fill up the flask and let the EZ-Clean Membrane™ do the work. Gently squeeze the flask for instant refreshment. Maintain the EZ-Clean Membrane™ quickly and easily for longer life and more enjoyment. Simply fill the flask with water, attach the cover and shake free the debris. Or, remove the filter from the flask and swish in any lake, river or stream. And when you're ready to "hit the road," the collapsible flask packs small to fit into tight spaces. Just Smash, Stash and Go! Worry less, Discover more, BeFree.

Order Number	Description
K8019946	600mL BeFree water filter
K8018007	1 Litre BeFree water filter
K8018008	3 Litre BeFree water filter



### Pocket

When your adventure could be extreme, you need efficient, long-lasting, durable filtration. The rugged workhorse of our filters, the classic Katadyn Pocket is a small but reliable friend you want along to keep you healthy and hydrated. Decades of military and emergency professionals around the world have put their trust in the Pocket's ability to deliver water free of bacteria and protozoa. Quickness counts too with an output of 1 liter/minute through our silver-impregnated ceramic filter. This steel bomb of a filter comes with a 20-year warranty – that's confidence you can count on.

Order Number	Description
K2010000	Pocket water filter



### Combi

No matter where, the replaceable activated carbon means chemical-free filtering. You end up with tasty, odor-free, thirst-quenching water. Our cleanable silver-impregnated ceramic provides water treatment you can believe in. When flexible multifunction tops your list, the included Faucet Kit adapts the filter for homes, boats or cabins.

Order Number	Description
K8017685	Combi water filter



### Vario

Perfect for a small group, the Katadyn Vario is a powerful companion in a small, lightweight package. With it, you can quickly treat up to 2 liters of water per minute with less effort than you dreamed possible thanks to its Dual Piston Technology. Choose between higher 2-liter/minute output or lifespan-extending 1-liter/minute output. A trio of filters scrubs water to confidently purge the bad stuff: Activate a ceramic pre-filter with a quick turn to conquer dirtier water so the durable glass fiber pleated filter inside lasts even longer. Plus, active charcoal gets rid of odors. Together, you get fresh, tasty refreshment you can trust.

Order Number	Description
K8014932	Vario water filter



### Gravity Camp 6 litre & Base Camp Pro 10 litre

With 4 more liters of capacity. But you get the same ease of filtering water for a group: Hang, fill, start dinner and, before you know it, a flow rate of up to 2 liters per minute (thanks to the Ultra Flow Filter™) has filled the bag with reliably safe, clean water. Maintain the easy-to-clean filter protector to treat up to 1,500 liters of water sans pumping. Simply add on the shower adapter (sold separately) for the truly luxe outdoor shower experience.

Order Number	Description
K8019297	Gravity Camp 6L water filter
K8019296	Base Camp Pro 10L water filter



### Expedition

A group on the move needs a water source it can count on. The Katadyn Expedition is just that. As indestructible as it gets, the Expedition is as easy to use as it is to pack along. Its high-performance filtration uses our silver-impregnated ceramic to ensure the water is free of bacteria and protozoa. Plus, when your group is parched after a long day, you can push out an incredible 4 liters/minute of safe, fresh, regenerating water.

Order Number	Description
K8016839	Expedition water filter



## Manual Survivor 06



The world's smallest desalinator

- Hand-operated desalinator which is extraordinarily compact in size
- Recommended for emergency liferafts and individual survival kits

**TECHNOLOGY:** Reverse Osmosis

**SALT REJECTION:** 98.4% on average (96%)

**FLOW:** 0.89 litres/ hour

**AVERAGE PUMP RATE:** 40 strokes/ minute

**WEIGHT:** approx. 1.13kg

**DIMENSIONS:** 12.7 x 20.3 x 6.3 cm

Order Number	Description
K8013418	Survivor 06 manual watermaker

## Manual Survivor 35



The most powerful desalinator for emergencies

- Hand-operated desalinator widely used by international military forces, sea kayakers and adventurers
- Survival tool and extra source of fresh water without need of auxiliary power

**TECHNOLOGY:** Reverse Osmosis

**SALT REJECTION:** 98.4% on average (96%)

**FLOW:** 4.5 litres/ hour

**AVERAGE PUMP RATE:** 30 Strokes/ minute

**WEIGHT:** approx. 3.17kg

**DIMENSIONS:** 13.9 x 55.8 x 8.8 cm

Order Number	Description
K8013433	Survivor 35 manual watermaker

## PowerSurvivor 40E



The world's smallest electrical desalinator

- The 40E contains 40% fewer parts than its popular predecessor, the PowerSurvivor-35
- Compact desalinator which can be operated both electric and manually
- Extremely energy efficient – no watermaker draws so few amps
- The heart of the 40E is the rugged stainless high-pressure pump. Armed for the rigors of the marine environment, this watermaker is built to last.
- The PowerSurvivor-40E is the only power watermaker that converts to manual operation in emergencies.

**TECHNOLOGY:** Reverse Osmosis

**SALT REJECTION:** 98.4% on average (96%)

**FLOW:** 5.7 litres/ hour

**POWER REQUIREMENTS:** 12 volts DC / 4 amps

**WEIGHT:** approx. 11.33kg

**DIMENSIONS:** 17.1 x 41.9 x 39.3 cm

### 3 YEAR WARRANTY

Order Number	Description
K8013438	Powersurvivor 40E - 12 volt
K8013439	Powersurvivor 40E - 24 volt



### Powersurvivor Storage and Cleaning Chemicals

These products are to be used with the powersurvivor units only.

Order Number	Description
K8013609	Biocide - Large - 240 grams
K8013327	Biocide - Small - 100 grams
K8013615	Alkaline Cleaner - 240 grams
K8013608	Acid Cleaner - 240 grams



### Seal Repair Kit

Order Number	Description
K8013053	For Survivor 35
K8012610	For Powersurvivor 40E
K8012889	For Powersurvivor 80E
K8012520	For Powersurvivor 160E



### Spare Replacement Parts

Order Number	Description
K8013877	Piston kit, for 40E, 80E & 160E
K8016525	Spool Valve kit for 40E
K8018615	Relief Valve kit for 40E
K8019114	Eccentric Drive kit - changing from oil gearbox to grease - for 40E, 80E & 160E



### Membrane

Replacement Membrane Kit for Manual Survivor 35 unit, Powersurvivor 35 unit, Powersurvivor 40E unit and Powersurvivor 80E (requires two).

Order Number	Description
K8012793	Membrane PS35, 40E or 80E



### Silt Reduction Kit

This kit protects pump and membrane from excessive exposure to silt and other suspended particulates. The kit contains 1 amp 12v booster pump, 2.5 micron prefilters, and all fittings. This kit fits the PowerSurvivor 40E but is also compatible with older models such as the PowerSurvivor 80E and PowerSurvivor 160E.

Order Number	Description
K8012859	Silt Reduction Kit



### Extended Cruising Kit For Powersurvivors

This kit contains one bottle of acid cleaner, two bottles of alkaline cleaner, and six 30 micron prefilters and one repair seal kit.

Order Number	Description
K8012606	For Powersurvivor 40E
K8012895	For Powersurvivor 80E
K8012513	For Powersurvivor 160E



### Preventative Maintenance Kit for Powersurvivors

We recommend this package for long voyages and for those who commonly face variable water conditions. Includes the contents of both the Silt Reduction and Extended Cruise Kits.

Order Number	Description
K8012607	For Powersurvivor 40E
K8012905	For Powersurvivor 80E
K8012514	For Powersurvivor 160E



## Bimini 300c

The new Bimini 300 is the only Watermaker that complies with CFR Ignition Protection regulations, making it a perfect choice for midsize outboard motor-powered vessels. The system is extremely quiet and energy efficient while reliably delivering up to 47 litres of water per hour. The Bimini 300 features the Spectra Connect controller that allows you to completely automate the operation of your watermaker as well as control it from a remote device and location. This simple, low maintenance watermaker will be a revolutionary addition to the Outboard Cruiser class of vessels.

### Features -

- 47 litres per hour or 1136 litres per day
- System weighs 50 kg
- 12 volt uses 18 amps & 24 volt uses 9 amps
- The only watermaker that complies with CFR 183.410/ISO 8846 for Ignition Protection for use on gasoline powered boats
- Magnetically coupled pump for whisper quiet operation
- Spectra's unique Clark Pump for efficiency and reliability
- Non-sparking components
- State of the Art Efficiency Brushless DC Motor and speed controller
- **Patent Pending**

Order Number	Description
<b>BM-300c-12v</b>	Bimini 300c - 12 volt
<b>BM-300c-24v</b>	Bimini 300c - 24 volt

## Powered Watermakers



## Ventura 150

The Spectra Ventura series is engineered for the smaller vessel to be energy efficient, light-weight, and self-regulating. These watermakers are composed of compact modules, making for easy installation in confined spaces. So can be run from solar, wind, or a small generator. This system has an analogue control with an instrument panel containing a feed water pressure gauge and a product flow meter.

### Features -

- 24 litres per hour or 568 litres per day
- Manual system weighs 27.7 kg
- 12 volt uses 9 amps & 24 volt uses 4.5 amps
- Spectra's unique Clark Pump for efficiency and reliability
- System includes installation kit, handheld water quality tester and product sample valve
- Whisper quiet
- Commercial grade diaphragm pumps with run dry protection
- Designed to operate efficiently from the Arctic to the Equator

Order Number	Description
<b>VT-150-12v</b>	Ventura 150 Deluxe - 12 volt
<b>VT-150-24v</b>	Ventura 150 Deluxe - 24 volt



## Ventura 200T

The Ventura 200T is the same size and configuration as the Ventura 150, but uses a higher displacement Clark pump to produce more water.

The Spectra Ventura series is engineered for the smaller vessel to be energy efficient, light-weight, and self-regulating. These watermakers are composed of compact modules, making for easy installation in confined spaces. So can be run from solar, wind, or a small generator. This system has an analogue control with an instrument panel containing a feed water pressure gauge and a product flow meter.

### Features -

- 31 litres per hour or 757 litres per day
- Manual system weighs 27.7 kg
- 12 volt uses 10 amps & 24 volt uses 5 amps
- Spectra's unique Clark Pump for efficiency and reliability
- System includes installation kit, handheld water quality tester and product sample valve
- Whisper quiet
- Commercial grade diaphragm pumps with run dry protection

Order Number	Description
VT-200T-12v	Ventura 200T - 12 volt
VT-200T-24v	Ventura 200T - 24 volt



## Cape Horn Extreme

Designed for the World's Toughest Conditions

The Cape Horn Extreme continues to be the choice for serious offshore racing campaigns like the Volvo Ocean Race and Clipper Challenge round-the-world yachts. The Cape Horn Extreme is reliable and durable, with its diaphragm feed pumps in parallel, it can be run on a single pump for high efficiency or two pumps for high output. The system uses rugged mechanical controls and gauges and is perfect for the hands-on racer or cruiser.

### Features -

- 56 litres per hour or 1249 litres per day
- Manual system weighs 25 kg
- 12 volt uses 19 amps & 24 volt uses 10 amps
- Spectra's unique Clark Pump for efficiency and reliability
- High and Low speed operation for customisable power management and output volume
- System includes installation kit, handheld water quality tester and product sample valve
- Whisper quiet
- Commercial grade diaphragm pumps with run dry protection
- Low power consumption, can be run on batteries, solar or wind power

Order Number	Description
CH-330-12v	Cape Horn Extreme - 12 volt
CH-330-24v	Cape Horn Extreme - 24 volt
CH-330C-12v	Cape Horn Extreme - 12 volt - Compact
CH-330C-24v	Cape Horn Extreme - 24 volt - Compact



## SPECTRA WATERMAKERS LAUNCHES SPECTRA CONNECT CONTROLLER TO REMOTELY MONITOR AND RUN WATERMAKER

Spectra Paves the Way with Connected Watermaker Technology and New Features to Simplify Watermaking

- The Spectra Connect will allow users to control, monitor, and run their watermaker remotely from your phone, tablet, computer or from the local touch screen.
- One-Touch Fill Tank feature will fill tanks with fresh water, automatically fresh water flush after use.
- Self-regulating and maintenance interval monitoring—No guesswork for operation or upkeep.

Spectra Watermakers, the industry leading brand in energy-efficient desalination will launch the Spectra Connect on all Series watermakers, allowing users to remotely connect to their watermaker to control, monitor, and make water via their phone, tablet, computer, or locally on the system's touch screen panel. The Spectra Connect can be accessed from a boat's local network, or Spectra's unique access system can be installed to connect wirelessly.

New features have been added, like Spectra's Auto Run feature can now be programmed by tank volume, making it customisable for the user's yacht. Optional integrated tank level sensors give even more control over the water supply. We've added One-Touch Sensor Calibration to allow users to make sure the watermaker is operating at its peak,

Maintenance and troubleshooting are easier than ever with the Spectra Connect. Suggested maintenance intervals are displayed on the new controller, reminding the user when to change filters, change a pump, or perform upcoming preventative maintenance. Data logging and remote access capability will allow technicians to troubleshoot from anywhere in the world.

Unlike systems based on a proprietary network and application, users can control their watermaker anywhere on the boat, building, or even world, making full water tanks just a tap away.



### Ventura Connect 150

The Spectra Ventura series is engineered for the smaller vessel to be energy-efficient and lightweight. These watermakers are composed of compact modules, making for easy installation in confined spaces. The Ventura 150c operates anywhere in the world and delivers over 6 gallons (24 liters) of fresh drinking water an hour. The Ventura 150c features the new Spectra Connect controller, which allows you to operate and monitor your watermaker from a remote device. Spectra Connect also has new added features like the Fill Tank mode, or a customizable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard. Add the Z±ION Membrane Protection System to extend service life on membranes and filters without the use of aggressive chemicals.

#### Features -

- 24 litres per hour or 568 litres per day
- Manual system weighs 38.6 kg
- 12 volt uses 9 amps & 24 volt uses 4.5 amps
- Spectra's unique Clark Pump for efficiency, reliability & Whisper Quiet
- System includes installation kit, handheld water quality tester and product sample valve
- Commercial grade diaphragm pumps with run dry protection
- Designed to operate efficiently from the Arctic to the Equator



Order Number	Description
VT-150C-12v	Ventura 150 Connect - 12 volt
VT-150C-24v	Ventura 150 Connect - 24 volt



### Ventura Connect 200

The same size as the Ventura 150c, but designed for warm water above 50°F (10C), the Ventura 200c delivers over 8 gallons (31 litres) per hour. With it's modular design, it's an ideal system for installation in tight spaces whether you're cruising or racing. The Ventura 200c features the new Spectra Connect controller, which allows you to operate and monitor your watermaker from a remote device. Spectra Connect also has new added features like the Fill Tank mode, or a customisable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard. Add the Z±ION Membrane Protection System to extend storage times for up to 30 days.

#### Features -

- 31 litres per hour or 757 litres per day
- Manual system weighs 38.6 kg
- 12 volt uses 10 amps & 24 volt uses 5 amps
- Spectra's unique Clark Pump for efficiency, reliability & Whisper Quiet
- System includes installation kit, handheld water quality tester and product sample valve
- Commercial grade diaphragm pumps with run dry protection
- Designed to operate efficiently from the Arctic to the Equator

Order Number	Description
VT-200C-12v	Ventura 200 Connect - 12 volt
VT-200C-24v	Ventura 200 Connect - 24 volt



### Catalina Connect 340

The new Catalina 340c produces 14 gallons (53 litres) of water per hour, making it the perfect watermaker for the midsize yacht with two to four people onboard. The Catalina uses the Spectra Magdrive feed water pump, making the system extremely quiet, energy-efficient, and reliable. This system comes standard with the Spectra Connect allows you to operate and monitor your watermaker from a remote device, and has newly added features like the Fill Tank mode, or a customisable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard.

#### Features -

- 53 litres per hour or 1287 litres per day
- Catalina 340Z system weighs 50 kg
- 12 volt uses 18 amps & 24 volt uses 9 amps
- Spectra's unique Clark Pump for efficiency and reliability
- High and Low speed operation for customisable power management and Volume output
- System includes installation kit and product sample valve
- Whisper quiet
- Low power consumption, can be run on batteries, solar or wind power
- High Efficiency magnetically coupled feed pump with no wearable seals
- Z±ION Compatible
- Easiest to install, use and service

Order Number	Description
CT-340C-12v	Catalina 340 Connect - 12 volt
CT-340C-24v	Catalina 340 Connect - 24 volt
CT-340C-S-12v	Catalina 340 Connect - 12 volt - Compact
CT-340C-S-24v	Catalina 340 Connect - 24 volt - Compact



### Newport Connect 400

The Newport 400c is the most energy efficient, automated, and easy-to-use watermaker available, and comes with the new Spectra Connect controller as standard! The Spectra Connect allows you to operate and monitor your watermaker from a remote device, and has new added features like the Fill Tank mode, or a customisable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard, taking the guesswork out of operation and upkeep! The Newport 400c operates on as little as 15 watts per gallon (4 watts per litre), making it possible to run your system on a small generator, solar, wind, or straight off the batteries. Multi-speed capacity allows machine operation on high mode for maximum product flow or low mode for maximum efficiency, making it ideal for onboard power management.

#### Features -

- 64 litres per hour or 1514 litres per day
- DC system weighs 49 kg
- 12 volt uses 24 amps & 24 volt uses 12 amps
- Spectra's unique Clark Pump for efficiency and reliability
- Commercial grade Magdrive pump with run dry protection
- High and Low speed operation for customisable power management and Volume output
- System includes installation kit and product sample valve
- Whisper quiet
- Low power consumption, can be run on batteries, solar or wind power
- High Efficiency magnetically coupled feed pump with no wearable seals
- Z+ION Compatible
- Commercial grade, continuous duty motor
- Manual bypass for diversion valve

Order Number	Description
NP-400C-12v	Newport 400 Connect - 12 volt
NP-400C-24v	Newport 400 Connect - 24 volt
NP-400C-S-12v	Newport 400 Connect - 12 volt - Compact
NP-400C-S-24v	Newport 400 Connect - 24 volt - Compact

### Newport Connect 700 and 1000



The Newport 700c is the most energy efficient, automated, and easy-to-use watermakers available, and come with the new Spectra Connect controller as standard! The Spectra Connect allows you to operate and monitor your watermaker from a remote device, and has new added features like the Fill Tank mode, or a customisable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard, taking the guesswork out of operation and upkeep! The Newport 700c and 1000c are available in DC and AC Voltages. Systems use motor speed control technology, allowing for quiet operation on an inverter, using a generator, or straight off the battery bank. Multi-speed capacity allows the machine to operate at its' optimum speed in all conditions. The Newport 700 MKII has two membranes and the Newport 1000 MKII has three Membranes.

#### Features -

- Spectra's unique Clark Pump for efficiency and reliability
- Multiple run speeds for optimum system operation
- System includes installation kit
- Highest output watermaker available in DC
- Commercial grade watermakers and magnetically coupled feed pumps
- AC systems rated for inverter operation
- Z+ION Compatible
- Manual bypass for diversion valve

#### Newport 700 MKII specifications

- 110 litres per hour, 2650 litres per day
- DC system weighs 80 kg, AC system weighs 76 kg
- 24 volt uses 24 amps, 220 volt uses 4.5 amps

Order Number	Description
NP-700C-24v	Newport 700 Connect - 24 volt
NP-700C-220v	Newport 700 Connect - 220 volt AC

#### Newport 1000 MKII specifications

- 155 litres per hour, 3785 litres per day
- DC system weighs 83 kg, AC system weighs 80.3 kg
- 24 volt uses 28 amps, 220 volt uses 5 amps

Order Number	Description
NP-1000C-24v	Newport 1000 Connect - 24 volt
NP-1000C-220v	Newport 1000 Connect - 220 volt AC



## Farallon Connect 1800 and 2800

The Farallon systems are designed with Spectra's unique Pearson Pump technology for unrivaled reliability, energy efficiency, and durability and now come with the new Spectra Connect Controller. The Spectra Connect allows you to operate and monitor your watermaker from a remote device, and has new added features like the Fill Tank mode, or a customizable Auto Run mode, One-Touch Sensor Calibration, and suggested maintenance intervals displayed on the dashboard, taking the guesswork out of operation and upkeep! The slow-moving pumps mean less maintenance, longer, quieter, trouble-free operation. The Farallon's variable frequency drive motor controller ensures soft starts with no massive inrush current to crash your inverter or generator at startup. Powered by 110v or 220v AC, these systems bring municipal scale desalination plant features to your fingertips.

### Features -

- Multiple run speeds for optimum system operation
- Highest output system rated for inverter operation
- Industrial grade motor and components
- Slow moving high pressure pump gives long service life
- Systems include a complete installation kit
- Quiet operation
- Pearson pump technology standard
- Semi-modular design to allow flexible installations

### Farallon 1800 specifications

- 284 litres per hour, 6813 litres per day
- Systems weighs 141 kg
- 220v AC systems uses 7 amps

Order Number	Description
FL-1800C	Farallon 1800 Connect - 220v AC

### Farallon 2800 specifications

- 454 litres per hour, 10,600 litres per day
- Systems weighs 166 kg
- 220v AC systems uses 9 amps

Order Number	Description
FL-2800C	Farallon 2800 Connect - 220v AC

## Cabo Connect 10,000

The Cabo 10,000 is for the megayacht and commercial vessel that need the ultimate in advanced desalination technology. Using Spectra's SP-20 Pearson Pump technology these units produce a luxurious 37,500 liters per day. Wash down the decks, clean the windows, take long, uninterrupted showers with your unlimited supply of clean, safe fresh water. The Cabo 10,000 can desalinate water with amazingly little energy; as low as 8 Watts per gallon, or 2 Watts per liter. Each Cabo system is completely customizable. With a variety of options and equipment, Spectra will design a complete operating system to suit your specific needs.

### Features -

- 1575 litres per hour
- 37,854 litres per day
- System weighs 725 kg
- AC system uses 20 to 24 amps
- Multiple run speeds for optimum system operation
- Options include: Chlorination for water storage tanks, automatic backwashing multi-media pretreatment, CIP/permeate flush tank, re-mineralization and softening systems.
- Industrial grade motor and components
- Slow moving high pressure pump gives long service life
- Quiet operation
- Pearson Pump technology standard

Order Number	Description
CB-10000C	Cabo10000 Connect - 220v AC





## Z+ION System Portection

The Z±ION Protection System floods your watermaker with silver ions, which eliminate bacteria and microbes. The ions create a toxic environment for the biological growth that clogs filters, fouls membranes, and forms hydrogen sulfide (the rotten egg smell), which turns your filters black. The Z±ION goes into action automatically during the fresh water flush cycle, disinfecting your system for up to 30 days.

Order Number	Description
ZION-MAN	For Manual Systems
ZION-AUTO	For Automated systems



## Shurflo pump

Order Number	Description
KIT-FP-SF12	Complete Pump without Fan - 12 volt
KIT-FP-SF24	Complete Pump without Fan - 24 volt
EL-FK-12	Cooling Fan Kit - 12 volt
EL-FK-24	Cooling Fan Kit - 24 volt



## Shurflo pump parts

Our smaller systems are equipped with a Shurflo pump as a feed pump for the watermaker.

Order Number	Description
PL-PMP-SFPH	Replacement Head
EL-FP-DP	Diaphragm Drive Kit
KIT-FP-SFSK	Pressure Switch Replacement Kit



## Carbon Vane Pump Heads

We use a carbon vane pump as a feed pump for the watermaker.

Order Number	Description
PL-PMP-100MAG	For the Catalina 300 or Deluxe
PL-PMP-140MAG	For the Catalina 340 Z and Newport 400 MKII
PL-PMP-240MAG	For the Newport 700 MKII and Newport 1000 MKII



## Membranes

Spectra uses the industry's best semi-permeable membranes to keep your watermaker running smoothly. While a well-cared for membrane will last many years, they may need to be replaced in the lifetime of your watermaker.

Order Number	Description
KIT-MB-20	20 inch Membrane
KIT-MB-40	40 inch Membrane



## Pearson Pump Rebuild Kit

While the Pearson Pump is designed to run for many thousands of hours, it may need to be rebuilt. For the mechanically minded individual, we offer a kit with the all components to rebuild the Pearson pump.

Order Number	Description
KIT-SP20-35R2K5	2,500 Hour Pearson Pump Rebuild Kit



## Spectra Connect Remote Display

Watermakers with the Spectra Connect come with one local display. If your system has a local display, you can add an additional remote display that can be located anywhere in your vessel, such as the navigation area or galley.

Order Number	Description
KIT-SC-RMPNL	Connect Remote Display



### Handheld Salinity Meter

For digitally testing water quality. A handheld salinity meter digitally tests the total dissolved solids (TDS) of your product water, which is any salt, metal, or mineral in the water. With the push of a button, it can tell you the overall water purity level, which is displayed on the screen in parts per million (PPM).

Order Number	Description
KIT-HHM	Hand Held TDS Meter



### Element Filters

Order Number	Description
FT-FTC-5	5 Micron - 2.5 inch x 10 inch tall
FT-FTC-20	20 Micron - 2.5 inch x 10 inch tall
FT-FTC-50	50 Micron - 2.5 inch x 10 inch tall
FT-FTC-CC	Carbon Block - 2.5 inch x 10 inch tall



### Storage and Cleaning Chemicals

Order Number	Description
KIT-CHEM-SC1	SC1 - Storage Chemical
KIT-CHEM-SC2	SC2 - Alkaline Cleaner
KIT-CHEM-SC3	SC3 - Acid Cleaner



### Raw Water Strainer

	Order Number	
Options	5 inch	6 inch
Complete Unit	FT-STN-5	FT-STN-6
Screen only	FT-STN-5S	FT-STN-6S
Seal only	SO-STN-5SS	SO-STN-6SS



### Seal kit

Seal only kit for the Clark Pump, plus Strainer seals.

Order Number	Description
KIT-HP-S&O	For 7% & 10% Clark pumps
KIT-HP-S&O1	For 15% & 20% Clark pumps



### Clark Pump Rebuild Kit

All the components to rebuild a Clark pump.

Order Number	Description
KIT-HP-7UD	For 7% Clark pumps
KIT-HP-15UD	For 15% Clark pumps
KIT-HP-20UD	For 20% Clark pumps



### Offshore kit

The Offshore Kit includes a seal and o-ring kit, annular rings, reversing valve spool, a section of nylon high pressure tubing, high pressure fittings, acid and alkaline membrane cleaning solutions, and the tools and instruction manuals required for a Clark Pump rebuild in the field.

Order Number	Description
KIT-OFFSH	For 7% & 10% Clark pumps
KIT-OFFSH1	For 15% & 20% Clark pumps

# Vertical Windlass

The X & SX vertical windlass range series is designed to provide anchoring solutions for sail and motor boats from 18 to 100 feet. The X series as standard, comes in mirror polished marine bronze produced by hot forging and it is made up by the following models: X1, X2, X3, X4 and Ercole Vertical. All X series windlasses are available in standard version with drum and in low profile version.

The SX Series is the new, round base vertical windlass and consists of the models SX1, SX2, SX3, SX3.5, SX4 and SX5. The SX Series is constructed with marine stainless steel AISI 316L to make sure the windlass is corrosion free. In addition the round base designs offers a more compact structure. All SX series windlasses are available in standard version with drum and in low profile version, except the SX1 (only low profile).

The ranges X4 to Ercole Vertical, from X Series, and SX4 to SX5, from SX Series, have been designed to be installed in yachts with a length of more than 55ft. These yachts require well-designed professional equipment, with a high mechanical performance and a high level of reliability.

With a purpose-built gearbox design, giving them top performance in terms of maximum pull and speed, these models are a reference point in their category. Lofrans' has achieved an excellent reputation for these specific anchor windlasses, which are installed on the most prestigious yachts throughout the world.

Model		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	ft
X1 & SX1	500W																		
	800W																		
	1000W																		
X2 & SX2	1000W																		
	1500W																		
X3 & SX3	1500W																		
	1700W																		
SX3.5	1700W																		
	2300W																		
	2700W																		
X4 & SX4	2300W																		
	2700W																		
SX5	3000W																		
		6		9		12		15		18		21		24		27			m

Model		85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	ft
Ercole vertical	3500W																
	HYD 11CC																
		24		27		30		34		37		40		43		45	m

	Heavy		Light
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Main Features	X1	X2	X3	X3.5	X4	X5	Project 1000	Project 1500	Project 2000	Ercole Verticale
Watertight Stainless steel Ball Bearings		✓	✓		✓		✓	✓	✓	
Independent Gypsy and drum operation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rope and Chain combination gypsy	✓	✓	✓				✓	✓		
Manual chain release	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual override		✓	✓		✓		✓	✓	✓	✓
Chain counter pre-setting as standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Motor IP-rating (12/24V)	66	66	66	44	44	44	66	66	44	44
Motor with two-speed built-in solenoids							✓	✓	✓	
Anodised marine aluminium gearbox	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Equipment included	Handle, control box						Handle			Handle, control box on 24volt



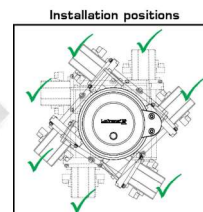
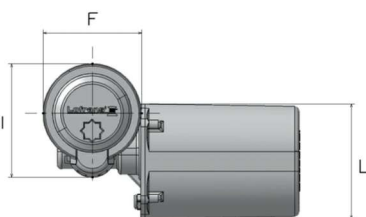
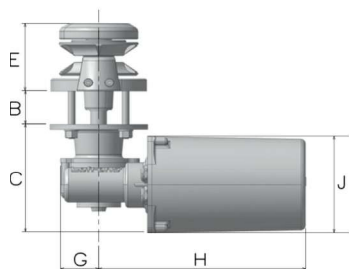
## SX1 Windlass

Construction	Stainless steel	
Motor size	500 watt	800 watt
Power	12 volt	
Consumption	75 amps	80 amps
Max. Pull	630kg	700kg
Lift working load	75kg	80kg
Hauling speed	23 to 26m per min	25 to 28m per min
Weight	12kg	14kg
Recommend Circuit Breaker - Part Number	636087	636088

SX1	Gypsy Size	Order Number	
		Stainless Steel - 500watt	Stainless Steel - 800watt
Low Profile	6mm	636279	636281
	8mm	*	636280

Dimensions in mm

\*Non-standard configuration optional gypsies can be supplied separately.

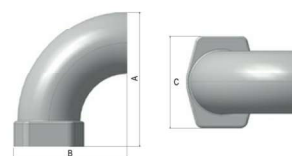
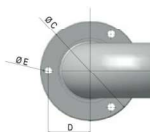
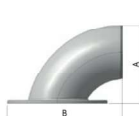


Model	B	C	E	F	G	H	I	J	L
500W	10-30	111	77	128	56	236	110	105	132
800W	10-30	150	77	128	62	236	110	134	165

## Chain Pipes for SX Series - Vertical windlasses

For Windlass	SX2 & SX3	SX3.5	SX4	SX5
Order number	636311	636312	636313	636314

Dimensions in mm



Model	Code	A	B	C	D	E
For SX2 & SX3	636311	86	127	Ø110	46	Ø8,5
For SX3,5	636312	114	165	Ø140	55	Ø10,5
For SX4	636313	125	163	Ø140	55	Ø10,5

Model	Code	A	B	C
For SX5	636314	191	161,5	130



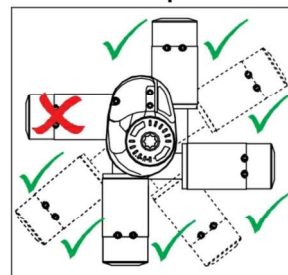


## X1 Windlass

Construction	Chromed Bronze			Aluminium
Motor size	500 watt	800 watt	1000 watt	500 watt
Power	12 volt			
Consumption	75 amps	80 amps	120 amps	75 amps
Max. Pull	630kg	700kg	900kg	630kg
Lift working load	95kg	100kg	125kg	95kg
Hauling speed	23 to 26m per min	25 to 28m per min	18 to 30m per min	23 to 26m per min
Weight	12kg	14kg	17kg	11kg
Recommend Circuit Breaker - Part Number	187331	187332	187333	187331



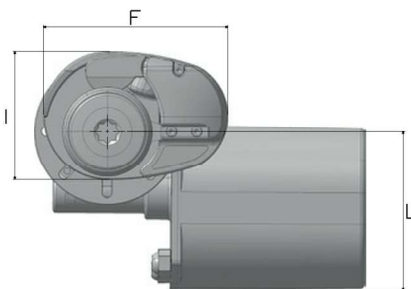
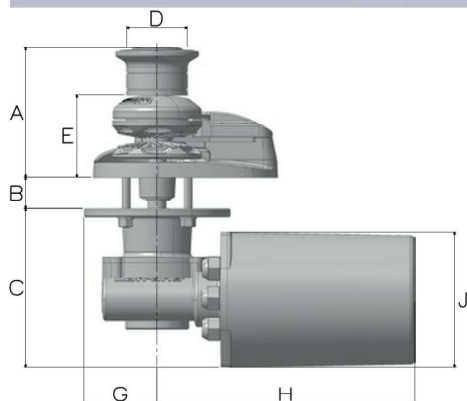
### Installation positions



X1	Gypsy Size	Rope Size	Order Number			
			Chromed Bronze - 500watt	Chromed Bronze - 800watt	Chromed Bronze - 1000watt	Aluminium - 500watt
Low Profile	6mm	10-12mm, 3-strand	472880	473217	*	409557
	8mm	12mm, 3-strand	187269	473002	600093	*
With Capstan	6mm	10-12mm, 3-strand	472881	473207	*	409558
	8mm	12mm, 3-strand	187270	473003	600092	*

\*Non-standard configuration optional gypsies can be supplied separately.

### Dimensions in mm



Model	A	B	C	D	E*	F	G	H	I	J	L
500W	130	10-30	111	Ø60	84	183	56	236	127	105	132
800W	130	10-30	111	Ø60	84	183	56	236	127	105	132
1000W	130	10-30	150	Ø60	84	183	62	256	127	134	165



IP67 rated heavy duty electric motor



Lofrans' designed marine aluminum gearbox

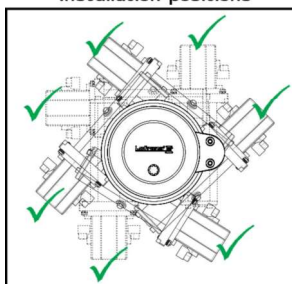
**new**



## SX2 Windlass

Construction	Stainless Steel			
Motor size	1000 watt		1500 watt	
Power	12 volt	24 volt	12 volt	24 volt
Consumption	135 amps	70 amps	150 amps	75 amps
Max. Pull	1000kg	1060kg	1200kg	1270kg
Lift working load	150kg	160kg	165kg	175kg
Hauling speed	20 to 40m per min	23 to 40m per min	17 to 40m per min	19 to 40m per min
Weight	20kg	24kg	25kg	25kg
Recommend Circuit Breaker - Part Number	636089	636088	636090	636088

### Installation positions



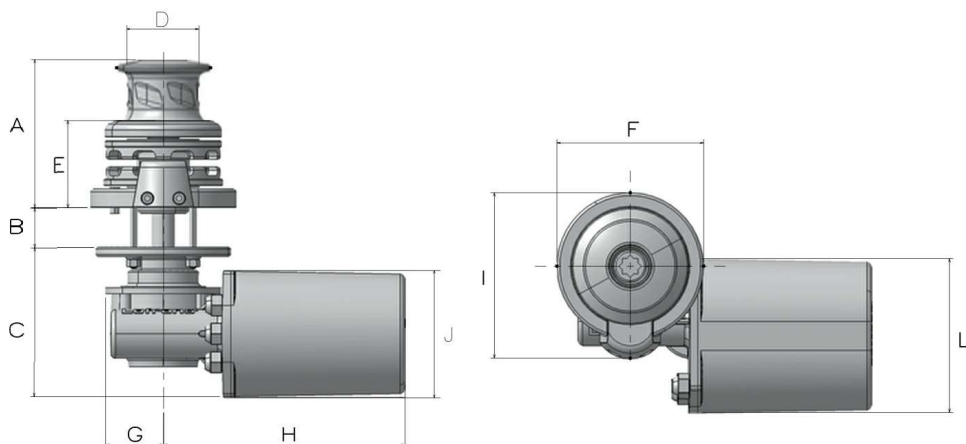
This SX windlass will also need a Chain pipe for installation, located on page 69

\*Non-standard configuration optional gypsies can be supplied separately.

SX2	Gypsy Size	Order Number			
		Stainless Steel - 1000watt - 12 volt	Stainless Steel - 1000watt - 24 volt	Stainless Steel - 1500watt - 12 volt	Stainless Steel - 1500watt - 24 volt
Low Profile	8mm	636283	*	*	636285
With Capstan	8mm	636282	*	*	636284



### Dimensions in mm

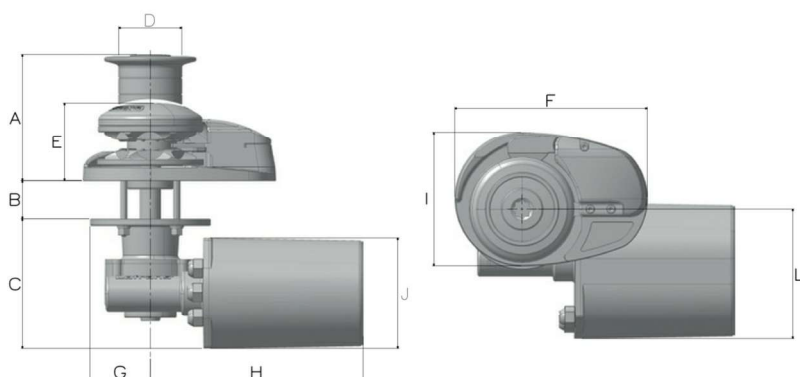


Model	A	B	C	D	E*	F	G	H	I	J	L
1000W	159	25-40	155	77	93	177	73	260	157	134	165
1500W	159	25-40	155	77	93	177	73	260	157	134	165



### X2 Windlass

Dimensions in mm



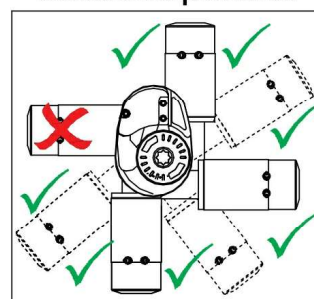
Model	A	B	C	D	E*	F	G	H	I	J	L
700W 800W	153	25-40	155	Ø76	95	232	73	260	162	134	165
1000W	153	25-40	155	Ø76	95	232	73	260	162	134	165
1500W	153	25-40	155	Ø76	95	232	73	260	162	134	165

Construction	Aluminium						Chromed Bronze					
Motor size	700w	800w	1000w	1000w	1500w	1500w	700w	800w	1000w	1000w	1500w	1500w
Power	24 volt	12 volt	12 volt	24 volt	12 volt	24 volt	24 volt	12 volt	12 volt	24 volt	12 volt	24 volt
Consumption	45a	90a	135a	70a	150a	75a	45a	90a	135a	70a	150a	75a
Max. Pull	750kg	850kg	1000kg	1060kg	1200kg	1270kg	750kg	850kg	1000kg	1060kg	1200kg	1270kg
Lift working load	105kg	115kg	150kg	160kg	165kg	175kg	105kg	115kg	150kg	160kg	165kg	175kg
Hauling speed	26 to 35m per min	26 to 35m per min	20 to 40m per min	23 to 40m per min	17 to 40m per min	19 to 40m per min	26 to 35m per min	26 to 35m per min	20 to 40m per min	23 to 40m per min	17 to 40m per min	19 to 40m per min
Weight	23kg	23kg	24kg	24kg	25kg	25kg	19kg	19kg	20kg	24kg	25kg	25kg
Recommend Circuit Breaker - Part Number	187331	187332	187333	187332	187333	187332	187331	187332	187333	187332	187333	187332

X2	Gypsy Size	Rope Size	Order Number											
			Aluminium						Chromed Bronze					
Wattage			700	800	1000	1000	1500	1500	700	800	1000	1000	1500	1500
Voltage			24	12	12	24	12	24	24	12	12	24	12	24
Low Profile	6mm		601016	600047	600989	*	*	*	602111	600045	600050	*	*	*
	8mm	14mm, 3-strand	601018	472861	473213	600054	*	*	*	472558	472557	*	*	601065
	10mm		*	*	472864	478642	601008	601044	*	*	57450	*	601054	601066
With Capstan	6mm		601022	600046	600997	*	*	*	*	600044	600049	*	*	*
	8mm	14mm, 3-strand	601024	472862	473212	473255	*	*	*	472735	472751	472750	600057	600061
	10mm		*	*	472863	*	601013	602529	*	*	600053	*	600056	600060

\*Non-standard configuration optional gypsies can be supplied separately.

### Installation positions

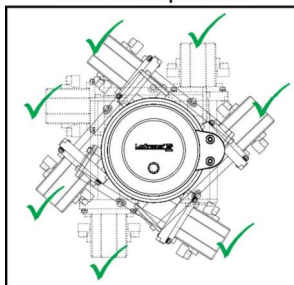




## SX3 Windlass

Construction	Stainless Steel		
Motor size	1500 watt	1700 watt	
Power	12 volt	12 volt	24 volt
Consumption	150 amps	180 amps	90 amps
Max. Pull	1200kg	1600kg	1695kg
Lift working load	165kg	200kg	215kg
Hauling speed	17 to 40m per min	14 to 32m per min	15 to 32m per min
Weight	35kg	38kg	38kg
Recommend Circuit Breaker - Part Number	636089	636091	636088

### Installation positions



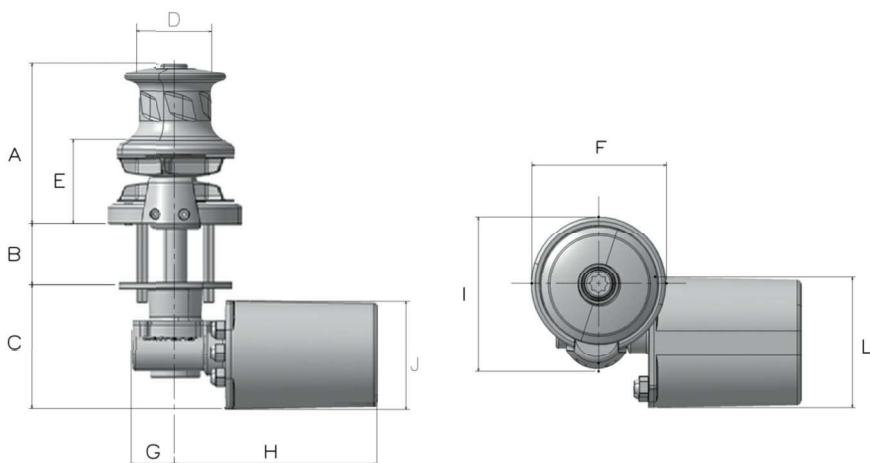
This SX windlass will also need a Chain pipe for installation, located on page 69

\*Non-standard configuration optional gypsies can be supplied separately.

SX3	Gypsy Size	Order Number		
		Stainless Steel - 1500watt - 12 volt	Stainless Steel - 1700watt - 12 volt	Stainless Steel - 1700watt - 24 volt
Low Profile	10mm	636289	*	*
	12mm/ 13mm	*	*	636286
With Capstan	10mm	*	*	636288
	12mm/ 13mm	*	*	636287



### Dimensions in mm



Model	A	B	C	D	E*	F	G	H	I	J	L
1500W	196	50-70	155	89	107	192	80	255	170	134	145
1700W	196	50-70	155	89	107	192	80	300	170	127	140





## X3 Windlass

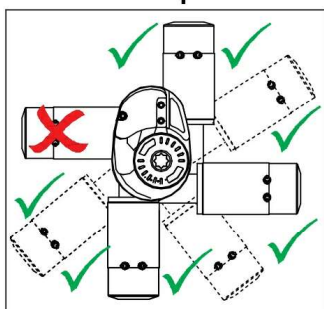
Construction	Aluminium	Chromed Bronze		
Motor size	1700 watt	1500 watt	1700 watt	1700 watt
Power	12 volt	12 volt		24 volt
Consumption	180 amps	150 amps	180 amps	90 amps
Max. Pull	1600 kg	1200kg	1600kg	1695kg
Lift working load	200 kg	165kg	200kg	215kg
Hauling speed	14 to 32m per min	17 to 40m per min	14 to 32m per min	15 to 32m per min
Weight	35kg	35kg	38kg	38kg
Recommend Circuit Breaker - Part Number	187334	187333	187334	187332

X3	Gypsy Size	Rope Size	Order Number			
			Aluminium - 1700 watt	Chromed Bronze - 1500 watt	Chromed Bronze - 1700 watt	Chromed Bronze - 1700 watt (24v)
Low Profile	8mm	14mm, 3-strand	601128	601070	600065	*
	10mm	16mm, 3-strand	601129	472866	473209	473256
	12mm	18mm, 3-strand	*	601075	472842	473006
With Capstan	8mm	14mm, 3-strand	57451	601079	600064	600068
	10mm	16mm, 3-strand	*	472865	473208	473252
	12mm	18mm, 3-strand	57453	601084	473004	473005

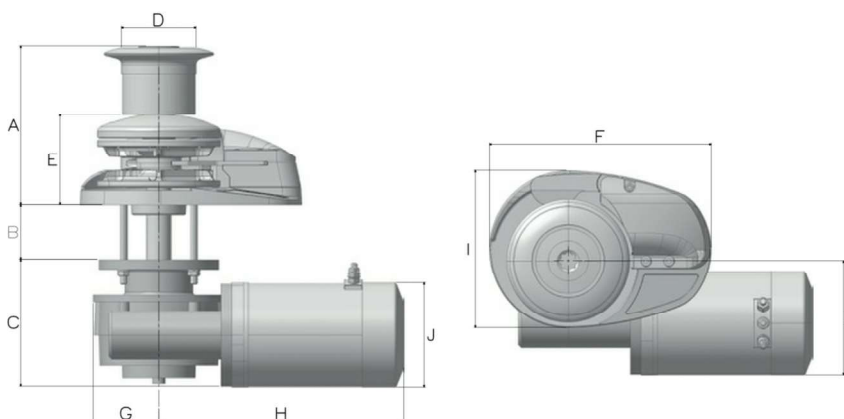
\*Non-standard configuration optional gypsies can be supplied separately.



### Installation positions



### Dimensions in mm



Model	A	B	C	D	E*	F	G	H	I	J	L
1500W	195	50-70	155	Ø92	110	270	80	255	192	134	145
1700W	195	50-70	155	Ø92	110	270	80	300	192	Ø127	140



## SX3.5 Windlass

Construction	Stainless Steel			
Motor size	1700 watt	1700 watt	2300 watt	2700 watt
Power	12 volt	24 volt		
Consumption	185 amps	95 amps	180 amps	210 amps
Max. Pull	1700kg	1700kg	1900kg	2000kg
Hauling speed	15 to 37m per min	16 to 37m per min	16 to 35m per min	16 to 35m per min
Weight	50kg	50kg	60kg	60kg
Recommend Circuit Breaker - Part number	187334	187332	187333	187333

*This SX windlass will also need a Chain pipe for installation, located on page 69*

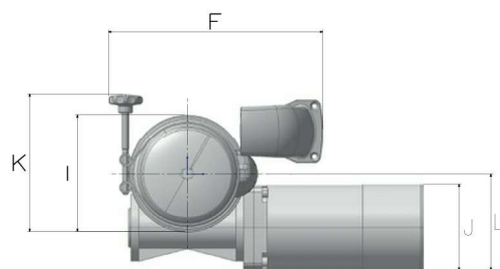
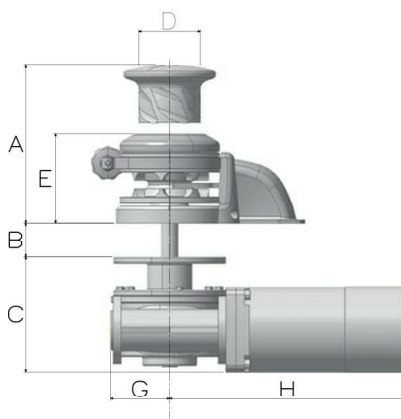
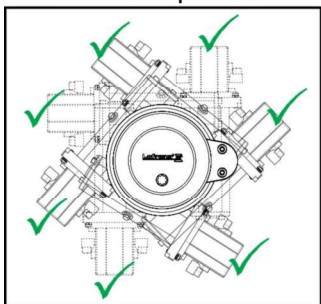
SX3.5	Gypsy Size	Order Number			
		1700watt	1700watt (24v)	2300watt (24v)	2700watt (24v)
With Capstan	10mm	600084	600085	*	*
	12mm	600086	600087	600088	*
	14mm	*	*	*	600090
Low Profile	12mm	635984	635985	635986	636099
	14mm	*	*	*	*

*\*Non-standard configuration optional gypsies can be supplied separately.*

## Dimensions in mm



### Installation positions



Model	A	B	C	D	E*	F	G	H	I	J	K	L
1700W	281	40-60	208	Ø110	159	380	80	300	Ø190	Ø127	237	140
2300W	281	40-60	208	Ø110	159	380	105	420	Ø190	Ø150	237	175
2700W	281	40-60	208	Ø110	159	380	105	420	Ø190	Ø150	237	175



## SX4 Windlass

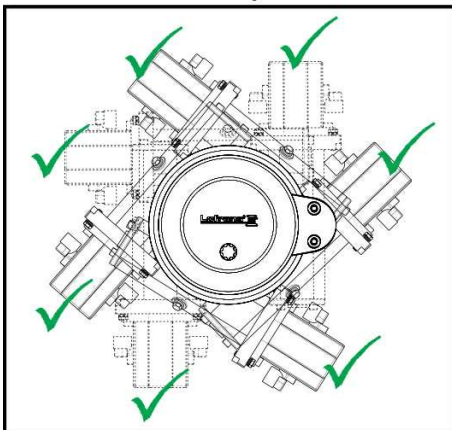
Construction	Stainless Steel	
Motor size	2300 watt	2700 watt
Power	24 volt	
Consumption	160 amps	170 amps
Max. Pull	2100kg	2500kg
Lift working load	500kg	530kg
Hauling speed	13 to 25m per min	13 to 28m per min
Weight	82kg	85kg
Recommend Circuit Breaker - Part Number	636090	636091

*This SX windlass will also need a Chain pipe for installation, located on page 69*

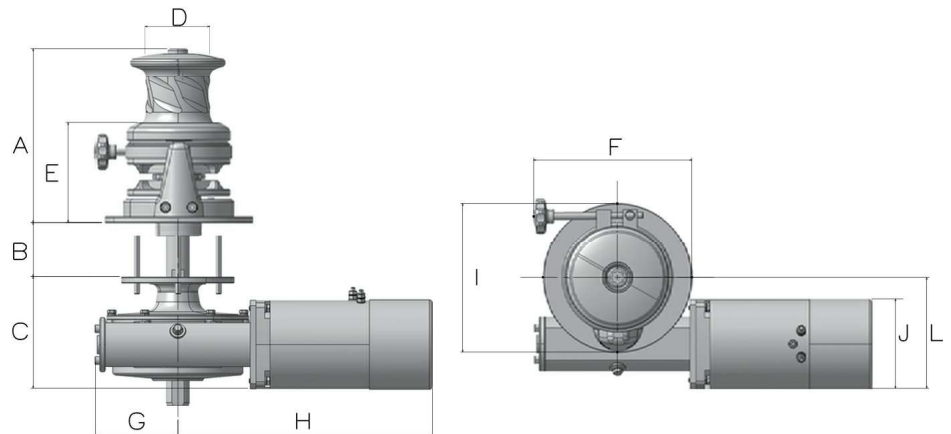
SX4	Gypsy Size	Type**	Order Number	
			Stainless Steel - 2300 watt (24v)	Stainless Steel - 2700 watt (24v)
Low Profile	12mm /13mm	Ccw	636292	639293
With Capstan	12mm /13mm	Cw	636290	639291

**\*\* Cw:** the windlass pulls clockwise    **Ccw:** the windlass pulls counter clockwise

## Installation positions



## Dimensions in mm



Model	A	B	C	D	E*	F	G	H	I	J	L
<b>2300W</b>	289	60-130	200	110	170	264	140	449	255	152	190
<b>2700W</b>	289	60-130	200	110	170	264	140	449	255	152	190



## X4 Windlass

Construction	Chromed Bronze	
Motor size	2300 watt	2700 watt
Power	24 volt	
Consumption	160 amps	170 amps
Max. Pull	2100kg	2500kg
Lift working load	500kg	530kg
Hauling speed	13 to 25m per min	13 to 28m per min
Weight	82kg	85kg
Recommend Circuit Breaker - Part Number	187333	187334

X4	Gypsy Size	Type	Order Number	
			2300 watt	2700 watt
With Capstan	10mm	Cw	600073	*
	12mm/ 13mm	Cw	473007	600075
	14mm	Cw	*	472849
	12mm/ 13mm	Ccw	600074	*
	14mm	Ccw	*	*
Low Profile	12mm/ 13mm	Ccw	601142	601159

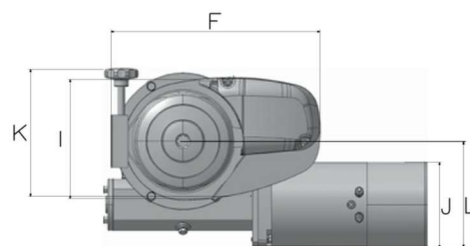
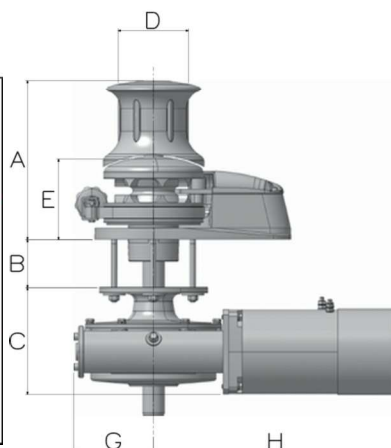
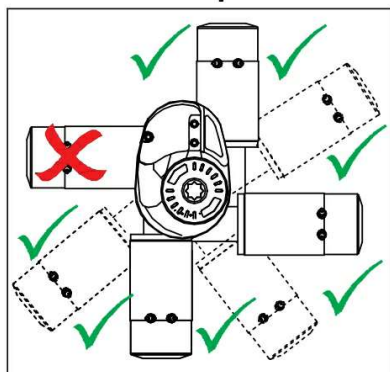


\*Non-standard configuration optional gypsies can be supplied separately.

\*\* Cw: the windlass pulls clockwise Ccw: the windlass pulls counter clockwise

## Dimensions in mm

### Installation positions



Model	A	B	C	D	E*	F	G	H	I	J	K	L
2300W	285	60-130	200	Ø125	150	380	140	449	220	Ø152	240	190
2700W	285	60-130	200	Ø125	150	380	140	449	220	Ø152	240	190





### SX5 Windlass

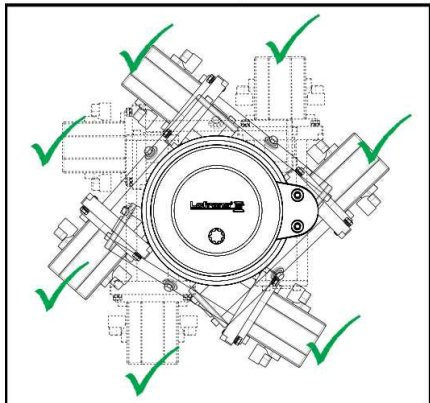
Construction	Stainless Steel
Motor size	3000 watt
Power	24 volt
Consumption	210 amps
Max. Pull	2800kg
Lift working load	760kg
Hauling speed	17 to 33m per min
Weight	100kg
Recommend Circuit Breaker - Part Number	636090

*This SX windlass will also need a Chain pipe for installation, located on page 69*

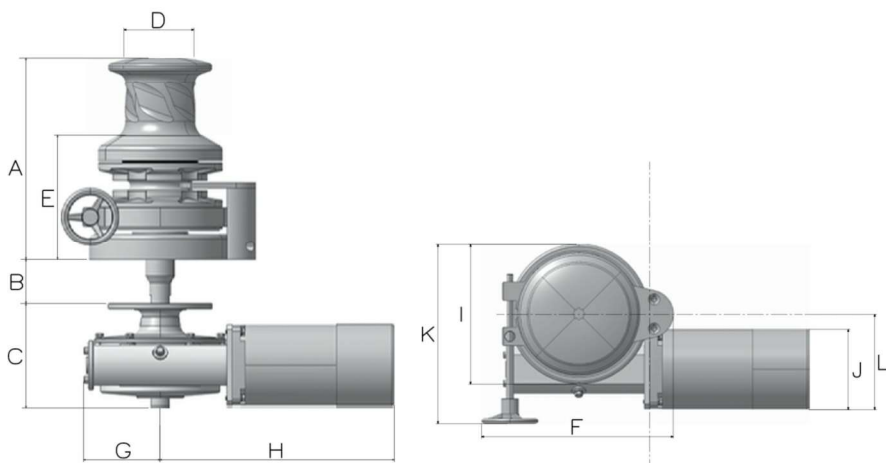
SX5	Gypsy Size	Type**	Order Number
			Stainless Steel - 3000 watt (24v)
Low Profile	12mm /13mm	Cw	636296
With Capstan	12mm /13mm	Cw	600089
	14mm	Cw	600091

*\*\* Cw: the windlass pulls clockwise*

### Installation positions



### Dimensions in mm



Model	A	B	C	D	E*	F	G	H	I	J	K	L
3000W	385	60-90	200	Ø132	232	362	152	449	264	Ø152	339	190

## Ercole Vertical



Rina  
Approved



Chain pipe or roller

Construction	316 L Stainless Steel				
Motor size	3500 watt	4000 watt	5500 watt	7500 watt	Hydraulic - 11cc
Power	24 volt	230-400 volts	230-400 volts	400 volts	
Consumption	240 amps				
Max. Pull	4500kg	2200kg	6500kg	7500kg	6500kg
Lift working load	705kg	565kg	1500kg	2000kg	1550kg
Hauling speed	12 to 20m per min	13m per min	13m per min	13m per min	14m per min
Weight	180kg	180kg	200kg	225kg	165kg
Hydraulic Pressure					200 bar
Hydraulic Flow					40 litres per min

Ercole Vertical	Gypsy Size	Type	Order Number				
			316 Stainless Steel - 3500watt (24v)	316 Stainless Steel - 4000watt (230-400v)	316 Stainless Steel - 5500watt (230-400v)	316 Stainless Steel - 7500watt (400v)	Hydraulic - 11cc
With Capstan	14 mm	Cw	600080	600082	*	*	602523
	16 mm	Cw	*	*	600409	*	602525
	17.5 studlink	Cw	*	*	*	636078	
	14 mm	Ccw	600081	600083	*	*	502524
	16 mm	Ccw	*	*	600408	*	502526
	17.5 studlink	Ccw	*	*	*	636079	

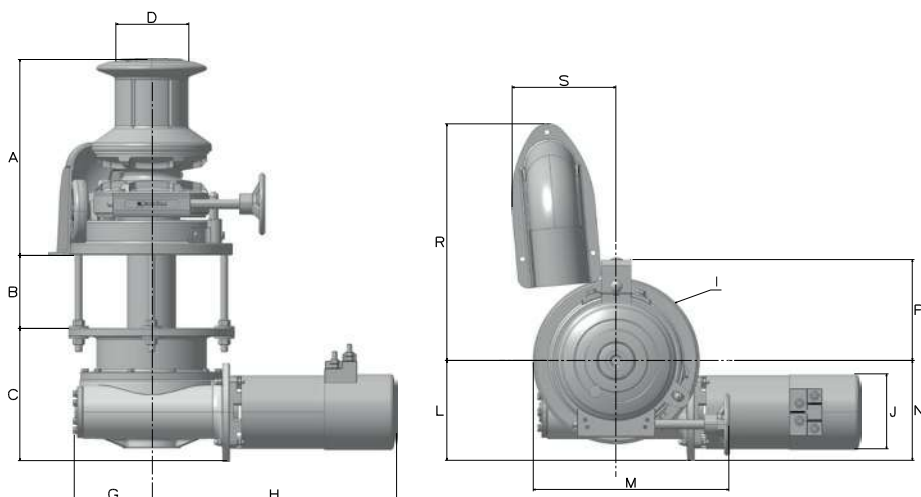
\*\* Cw: the windlass pulls clockwise Ccw: the windlass pulls counter clockwise

## Main features are:

- Under-deck compact dimensions.
- Construction in mirror polished AISI 316L stainless steel.
- High torque latest generation electric motor able to provide the power needed in all marine conditions.
- Band brake to assist in chain control, thanks to an easy-to-manage large hand wheel.
- Special high-grip drum with independent rotation from the Gypsy, for warping function.
- Independent Gypsy and drum operation.
- Manual chain release.
- Manual override to recover the chain and anchor in case of electrical failure.
- Internal ratchet to prevent chain jams into the chain locker which could cause damage to the deck.
- Chain counter support integrated by the sensor inserted in the base and the magnet in the Gypsy.
- Available also in counter clockwise rotation.
- High efficiency Lofrans planetary - worm screw gearbox made in anodised black aluminium with gears made in high mechanical strength material.
- Heavy duty electric motor.
- Power : DC, AC and hydraulic
- Available in custom versions.

Please contact us for additional detailed documentation.

Dimensions in mm



	A	B	C	D	G	H	I	J	L	M	N	P	R	S
3500W														
4000W														
5500W	400	150	272	150	160	502	340	Ø158	205	405	220	205	min 490 - max 600	min 200 - max 230
7500W														

## Standard Equipment:

- Dual direction solenoid pack (only for 24 volt version)
- Handle
- Gypsy for chain

# Horizontal Windlass

The range of horizontal windlasses is suitable for boats from 18 up to 150 feet offering the best in performance and functionality, when there is adequate deck space or if the chain locker has limited size or accessibility. They are simple, reliable, with their classic and timeless style making them perfect for many vessels, especially for the charter business.

**Material and finish, marine grade aluminium alloy:** Our horizontal anchor windlasses are produced using marine grade aluminium alloy. The body is polished and anodised. Most of the components are made by hot forging. The horizontal models are available as standard in anodized aluminium. Some models are available with a painted white polyester coating.

**High performance motors:** The horizontal windlasses' electric motors have been designed to supply high torque in all working conditions. They are available in 12 or 24 Volt DC current and 230-440 V three phase AC current. Most of the motors have an IP66 rating with a galvanized body painted with a polyester coating. Our electric motors are specified to provide the necessary power for long run time. They are also designed to operate at an increased speed and so reducing operating time. Titan, Ercole and Super Ercole are also available in hydraulic motor versions.

**Lofrans gearboxes:** Most of our horizontal windlasses use a Lofrans-made high efficiency worm screw gearbox. It is non-reversible with the gears produced with specific material able to withstand high-load strain. All gearboxes are oil lubricated in order to minimize working noise. The models for superior boats use a special Lofrans planetary - worm screw gearbox which allows them to have a high efficiency to dimension ratio.

Model		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	ft
Royal	MANUAL																		
Dorado	500W																		
	800W																		
Lion 1000	700W																		
Kobra	1000W																		
Cayman	700W																		
	1000W																		
Tigres	1500W																		
Falkon	1700W																		
Titan	2300W																		
	HYD 9CC																		
		6		9		12		15		18		21		24		27			m

Model		85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	ft
Ercole Horizontal	3500W																
	HYD 11CC																
Super Ercole	3500W																
	HYD 11CC																
		24		27		30		34		37		40		43		45	m

	Heavy		Light
--	-------	--	-------

Main Features	Lion 1000	Dorado	Royal	Kobra	Cayman	Tigres	Falkon	Titan	Ercole	Super Ercole
Independent Gypsy and drum operation			☑	☑	☑	☑	☑	☑	☑	☑
Rope and Chain combination gypsy	☑	☑								
Manual chain release	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
Manual override			☑	☑	☑	☑	☑	☑	☑	☑
Chain counter pre-setting as standard	☑									
Motor IP-rating (12/24V)	66	66		66	66	66	66	44	44	44
Equipment included	Handle, control box									

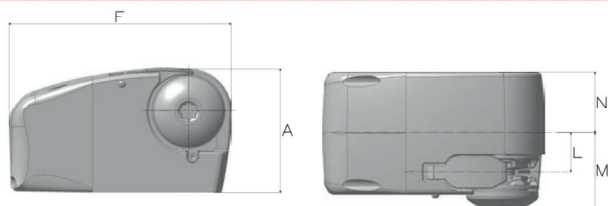




### Lion 1000 windlass

Construction	White anodised Aluminum
Motor size	700 watt
Power	12 volt
Consumption	60 amps
Max. Pull	575kg
Lift working load	105kg
Hauling speed	23 to 26m per min
Weight	11kg
Recommend Circuit Breaker - Part Number	636088

Dimensions in mm



Model	A	F	L	M	N
700W	153	272	50	93	75

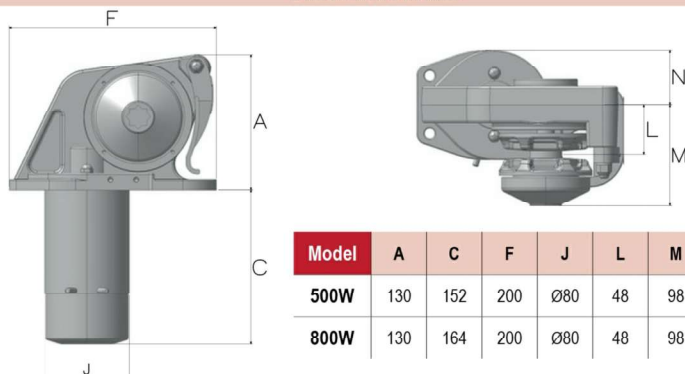
Lion 1000	Gypsy Size	Rope Size	Order Number
			Anodised White - 700watt
Low Profile	6mm	10-12mm, 3-strand	636214
	8mm	12mm, 3-strand	636215
	6mm - Automatic free fall	10-12mm, 3-strand	636216
	8mm - Automatic free fall	12mm, 3-strand	636217



### Dorado Windlass

Construction	Anodised Aluminium	
Motor size	500 watt	800 watt
Power	12 volt	
Consumption	65 amps	80 amps
Max. Pull	630kg	900kg
Lift working load	95kg	125kg
Hauling speed	18 to 24m per min	20 to 25m per min
Weight	10kg	11kg
Recommend Circuit Breaker - Part Number	187331	187332

Dimensions in mm



Model	A	C	F	J	L	M	N
500W	130	152	200	Ø80	48	98	53
800W	130	164	200	Ø80	48	98	53



**NEW** - Stern Windlass support, SS316, with Roller & flange

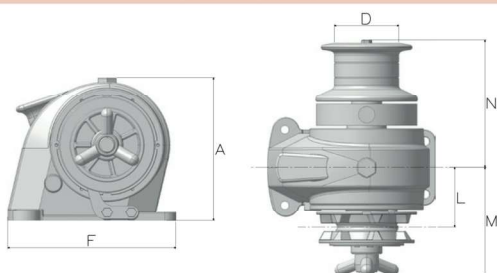
Order Number - 72204

Dorado	Gypsy Size	Rope Size	Order Number	
			Anodised Aluminium - 500watt	Anodised Aluminium - 800watt
Low profile	6mm	10-12mm, 3-strand	409568	600048
	8mm	12mm, 3-strand	*	409569

\*Non-standard configuration optional gypsies can be supplied separately.



Dimensions in mm



## Royal windlass (Manual)

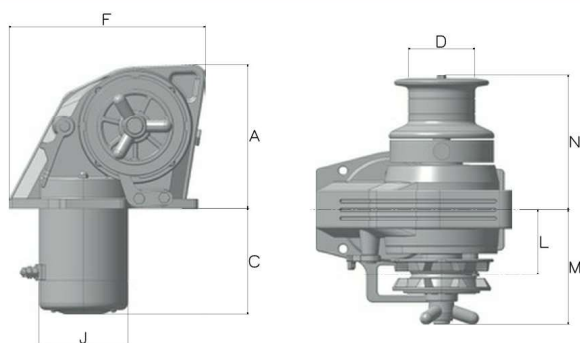
Construction	Anodised Aluminium
Motor size	-
Power	-
Consumption	-
Max. Pull	400kg
Lift working load	50kg
Hauling speed	-
Weight	10kg

Model	A	D	F	L	M	N
Manual	192	Ø85	222	80	145	167

Royal	Gypsy Size	Order Number
		Anodised Aluminium - Manual
With Capstan	6mm ISO 4565	187323
	8mm ISO 4565	404725
	10mm ISO 4565	220002



Dimensions in mm



## Kobra Windlass

Construction	Anodised Aluminium	
Motor size	1000 watt	
Power	12 volt	24 volt
Consumption	150 amps	80 amps
Max. Pull	1250kg	1325kg
Lift working load	170kg	170kg
Hauling speed	16 to 32m per min	17 to 33m per min
Weight	21kg	21kg
Recommend Circuit Breaker - Part Number	187333	187332

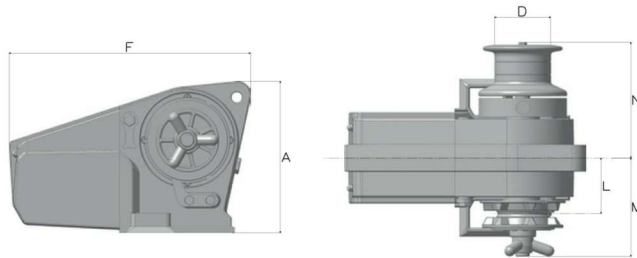


Model	A	C	F	D	J	L	M	N
1000W	184	136	250	Ø85	Ø114	83	147	172

Kobra	Gypsy Size	Order Number	
		Anodised Aluminium - 1000watt	Anodised Aluminium - 1000watt (24v)
With Capstan	6mm	600051	600513
	8mm	220260	600514
	10mm	428747	220420



Dimensions in mm



## Cayman windlass

Construction	Anodised Aluminium	
Motor size	700 watt	1000 watt
Power	12 volt	
Consumption	110 amps	150 amps
Max. Pull	1000kg	1250kg
Lift working load	100kg	170kg
Hauling speed	21 to 32m per min	16 to 32m per min
Weight	24kg	25kg
Recommend Circuit Breaker - Part Number	187333	187332

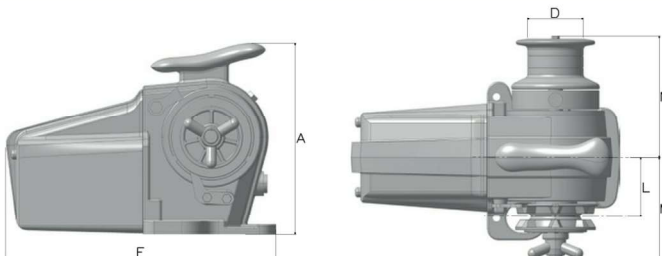
Model	A	D	F	L	M	N
700W	230	Ø85	370	85	150	175
1000W	230	Ø85	370	85	150	175

\*Non-standard configuration optional gypsies can be supplied separately.

Cayman	Gypsy Size	Order Number		
		Anodised Aluminium - 700watt	Anodised Aluminium - 1000watt	Anodised Aluminium - 1000watt (24v)
With Capstan	6mm	600043	*	*
	8mm	220273	220279	*
	10mm	*	419732	600180



Dimensions in mm



Model	A	D	F	L	M	N
1500W	290	Ø85	415	90	155	185

## Tigres windlass

Construction	Anodised Aluminium	
Motor size	1500 watt	
Power	12 volt	24 volt
Consumption	160 amps	90 amps
Max. Pull	1500kg	1590kg
Lift working load	190kg	200kg
Hauling speed	14 to 33m per min	16 to 33m per min
Weight	28kg	28kg
Recommend Circuit Breaker - Part Number	187333	187332



Tigres	Gypsy Size	Order Number	
		Anodised Aluminium - 1500watt	Anodised Aluminium - 1500watt (24v)
With Capstan	8mm ISO 4565	418407	418409
	10mm ISO 4565	470060	220290

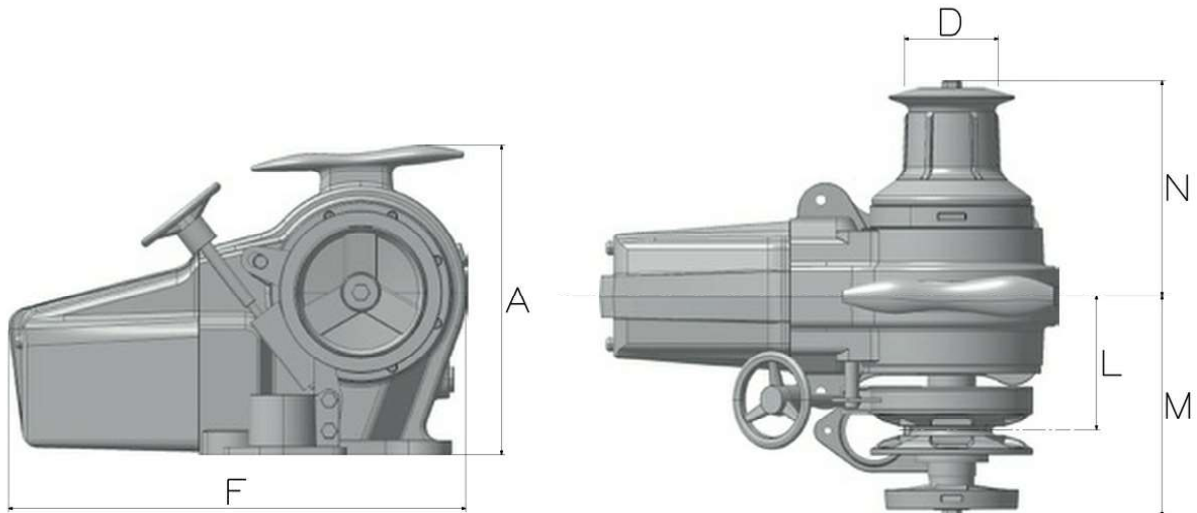


## Falkon windlass

Construction	Anodised Aluminium	
Motor size	1700 watt	
Power	12 volt	24 volt
Consumption	210 amps	100 amps
Max. Pull	1700kg	1800kg
Lift working load	215kg	225kg
Hauling speed	14 to 33m per min	15 to 33m per min
Weight	55kg	55kg
Recommend Circuit Breaker - Part Number	187334	187332



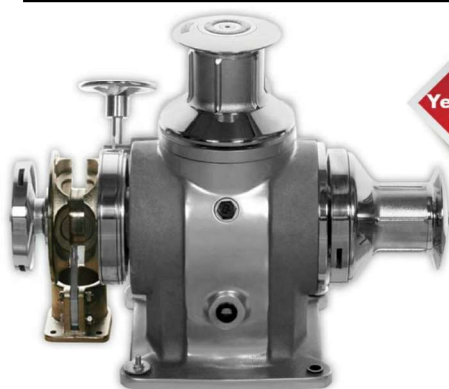
## Dimensions in mm



Model	A	D	F	L	M	N
1700W	340	Ø104	500	147	240	235

Falkon	Gypsy Size	Order Number	
		Anodised Aluminium - 1700 watt	Anodised Aluminium - 1700 watt (24v)
With Capstan	10mm	220293	418511
	12mm	404732	404733

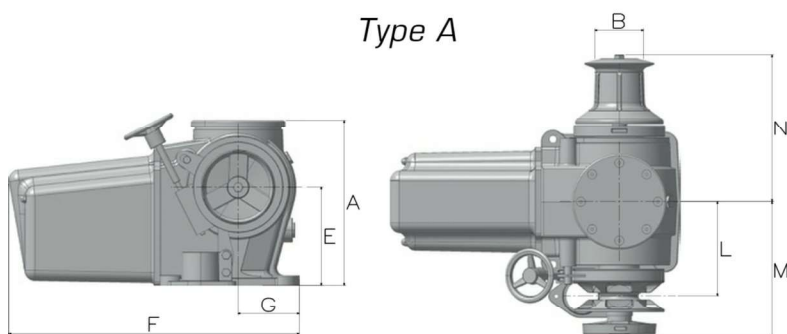




## Titan Windlass

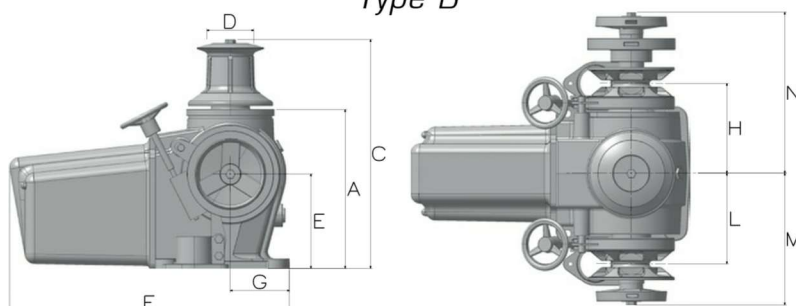
Dimensions in mm

Type A



Model	A	C	F	D	J	L	M	N
2300W	330	Ø104	193	590	120	185	270	290
3600W								
Hydraulic								

Type B



Model	A	C	D	E	F	G	H	L	M	N
2300W	330	465	Ø104	193	590	120	185	185	270	290
3600W										
Hydraulic										

Type C

Anodised Aluminium

Construction	Anodised Aluminium		White Aluminium	Anodised Aluminium
Motor size	2300 watt	3600 watt	3600 watt	Hydraulic - 9cc
Power	24 volt	230 - 1 PH	230 - 1 PH	
Consumption	140 amps			
Max. Pull	2800kg	3400kg	3400kg	3400kg
Lift working load	430kg	540kg	540kg	540kg
Hauling speed	10 to 18m per min	11m per min	11m per min	11m per min
Weight	115kg	115kg	115kg	95kg
Hydraulic Pressure				200 bar
Hydraulic Flow				32 litres per min

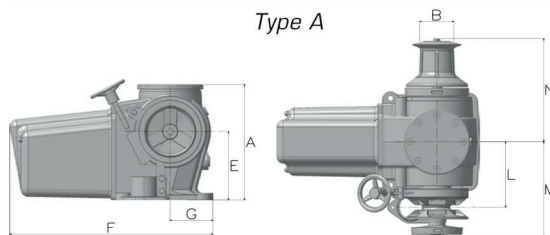
Titan	Type	Gypsy Size	Order Number			
			Anodised Aluminium - 2300watt (24v)	Anodised Aluminium - 2300watt (230 - 1 PH)	White Aluminium - 2300watt (230 - 1 PH)	Hydraulic - 9cc
With Capstan	Model A	12mm	404724	*	600846	602423
		14mm	600072	600847	*	602424
	Model B	12mm	428938	*	*	602468
		14mm	426415	*	*	602469



## Ercole windlass

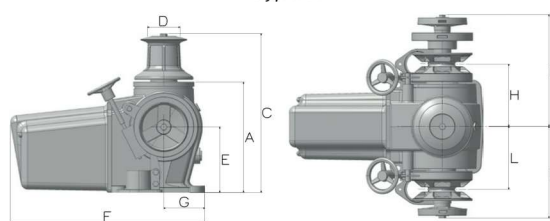
Dimensions in mm

Type A



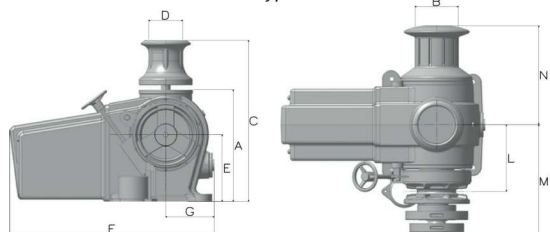
Model	A	B	E	F	G	L	M	N
3500W Hydraulic	390	Ø150	230	705	160	230-250	390	340

Type B



Model	A	C	D	E	F	G	H	L	M	N
3500W Hydraulic	390	555	Ø125	230	705	160	230-250	230-250	390	340

Type C



Model	A	B	C	D	E	F	G	L	M	N
2300W Hydraulic	390	Ø150	555	Ø125	230	705	170	230-250	390	339

Construction	White Aluminium	
Motor size	3500 watt	Hydraulic - 11cc
Power	24 volt	
Consumption	240 amps	
Max. Pull	4500kg	6500kg
Lift working load	810kg	1550kg
Hauling speed	12 to 20m per min	14m per min
Weight	200kg	180kg
Hydraulic Pressure		200 bar
Hydraulic Flow		40 bar

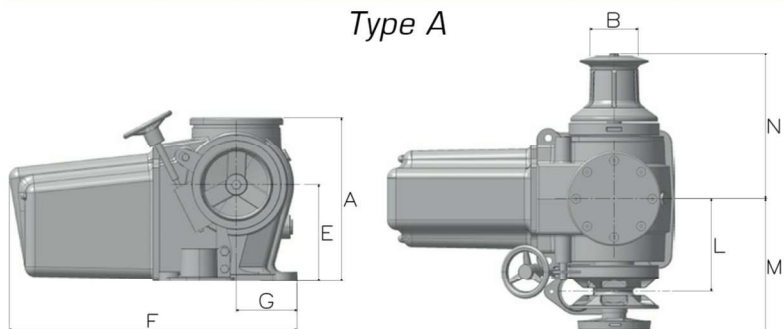
Ercole		Gypsy Size	Order Number	
			Anodised Aluminium - 3500watt (24v)	Hydraulic - 11cc
With Capstan	Model A	14mm	403615	602509
	Model B	14mm	220317	602512
	Model C	14mm	403614	502515



## Super Ercole Windlass

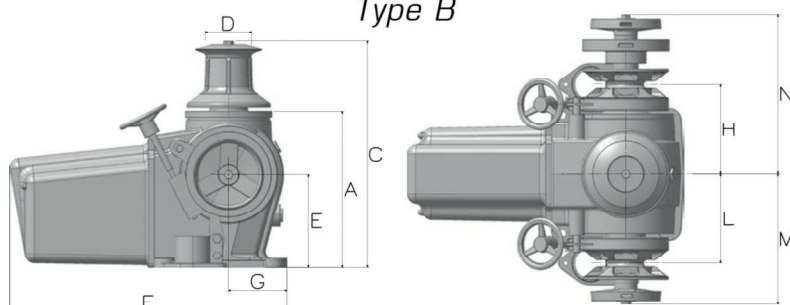
Dimensions in mm

Type A



Model	A	C	F	D	J	L	M	N
3500W	450	Ø150	260	870	200	255-280	450	375
5500W								
Hydraulic								

Type B

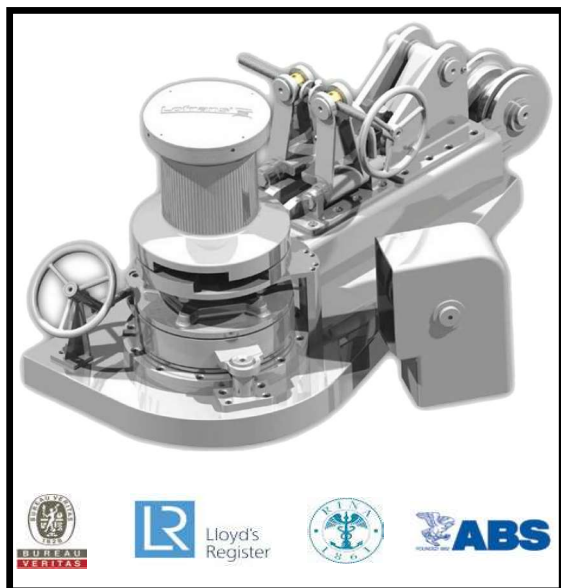


Model	A	C	D	E	F	G	H	L	M	N
3500W	450	610	Ø135	260	870	200	255-270	255-280	450	375
5500W										
Hydraulic										

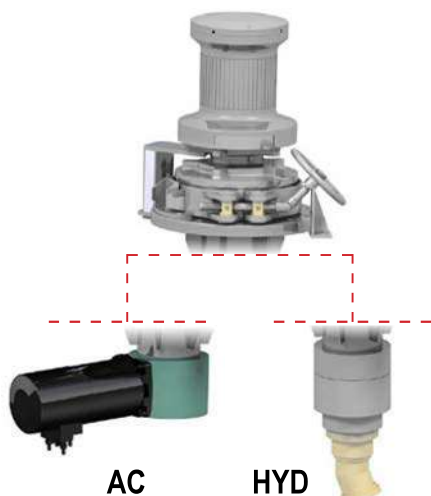
Construction	White Aluminium		
Motor size	3500 watt	5500 watt	Hydraulic - 9cc
Power	24 volt	400 volt	
Consumption	240 amps		
Max. Pull	5000kg	7000kg	7000kg
Lift working load	870kg	1670kg	1670kg
Hauling speed	14 to 28m per min	17m per min	18m per min
Weight	235kg	235kg	215kg
Hydraulic Pressure			200 bar
Hydraulic Flow			40 litres per min

Super Ercole	Type	Gypsy Size	Order Number		
			White Aluminium - 3500watt (24v)	White Aluminium - 5500watt (400v)	
With Capstan	Model A	16mm	404957	602501	602488
	Model B	16mm	426414	602504	602491

## Zeus Range - Custom made solution for MEGA yachts



- Semi & Fully customised vertical windlass, specially designed for above 45m yachts.
- AC or HYD, High torque, latest generation motors for marine use.
- High torque planetary gearbox.
- AISI 316L Stainless Steel visible parts.
- Independent operation of gypsy and capstan.
- Up to 42mm stud-link chain & 12,000kgs maximum pull.



Model Type ZEUS	Gypsy For Stud-link Chain	Control Box	Line Speed at W.L.	Max Line Speed	Maximum Pull	Working Load	Motor Size
5500 AC / HYD	20mm	Switchboard available separately	11 m/min	19 m/min	5000 kg	2100 kg	5,5 kW
5500 AC / HYD	22mm				5400 kg	3000 kg	7,5 kW
5500 AC / HYD	24mm				6000 kg	3600 kg	9 kW
7500 AC / HYD	24mm				7700 kg	5500 kg	11 kW
7500 AC / HYD	26mm				8000 kg	5500 kg	11 kW
7500 AC / HYD	28mm				8500 kg	7000 kg	15 kW
9500 AC / HYD	28mm				9200 kg	7000 kg	15 kW
9500 AC / HYD	30mm				9200 kg	7000 kg	15 kW
9500 AC / HYD	32mm				10500 kg	9000 kg	18,2 kW
12000 AC / HYD	32mm				12600 kg	10200 kg	22 kW
12000 AC / HYD	34mm				12600 kg	10200 kg	22 kW

\*Code upon request

Model	150	165	180	195	210	225	240	260	280	295	310	330	345	360	390	425	ft
ZEUS 5500																	
ZEUS 7500																	
ZEUS 9500																	
ZEUS 12000																	
Heavy	45	50	55	60	65	70	75	80	85	90	95	100	105	110	120	130	m

Notes: \* All ZEUS windlasses are subject to customized solution \*\* Mention that ZEUS range goes customized to 42mm STD chain



# Capstans

The range of Lofrans capstans is designed for boats from 18 up to 150 feet. Capstans are normally installed on the stern of the boat for mooring operations and are used in recreational, fishing and commercial vessels.

They are normally installed on the vessel in addition to the anchor windlass, with the number of capstan units depending on the length and displacement of the vessel.

They are controlled by a pair of the foot switches close to the capstan, so that the operator can have his/her hands free for rope handling.

The construction is very similar to our vertical windlass range using the same mechanical components, giving strength and high performance by relying on Lofrans'- made worm screw gearbox.

The base is manufactured using chromed bronze, strong and long lasting, as are the drums, which have the proper surface to hold the rope and minimize wear.

The ST range has a base & a drum made in mirror polished AISI 316L stainless steel. The main structure of the gearbox is of a strong single-block construction, same as our big vertical anchor windlasses.

Available to operate with 12V DC, 24V DC as well as AC or hydraulic motors for the larger size/higher power models, they are designed to meet a wide range of user requirements.

Capstan		20	25	30	35	40	45	50	55	60	65	70	75	80	85	ft
T500	500w															
T700/ ST700	700w															
T1000/ ST1000	1000w															
T1500/ ST1500	1500w															
T1700/ ST1700	1700w															
		6		9		12		15		18		21		24		m

Capstan		70	75	80	85	90	95	100	105	110	115	120	125	135	140	145	ft
T2000/ ST2000	AC 2200w																
	2300w																
	AC 3600w																
	HYD 9CC																
T2500/ ST2500	AC 2200w																
	2700w																
	AC 3600w																
	HYD 9CC																
ST3000	AC 2200w																
	3000w																
	AC 3600w																
	HYD 9CC																
ST4000	3500w																
	AC 4000w																
	AC 5500w																
	HYD 11CC																
		21		24		27		30		34		37		40		43	m

Heavy Light



C A P S T A N S





## T500 - T700 - Capstan

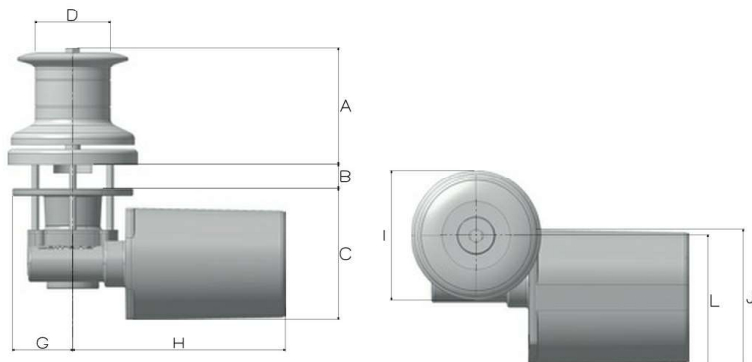
### Main Features

- Luxury Chrome bronze base and drum
- Heavy duty rated IP67 electric motor
- Anodised marine aluminium gearbox

Order Number					
Chromed Bronze			Aluminium		
T500	T700		T500	T700	
500 watt	700 watt	700 watt (24v)	500 watt	700 watt	700 watt (24v)
409130	220006	418159	409563	411129	600779

Construction	Chromed Bronze			Aluminium		
Model	T500	T700		T500	T700	
Motor Size	500 watt	700 watt		500 watt	700 watt	
Power	12 volt	12 volt	24 volt	12 volt	12 volt	24 volt
Consumption	75 amps	110 amps	50 amps	75 amps	110 amps	50 amps
Max. Pull	670kg	850kg	900kg	630kg	850kg	900kg
Lift working load	85kg	115kg	125kg	85kg	115kg	125kg
Hauling speed	23 to 26m per min	20 to 30m per min	23 to 30m per min	23 to 26m per min	20 to 30m per min	23 to 30m per min
Weight	11kg	15kg	15kg	9kg	15kg	15kg
Recommend Circuit Breaker - Part number	187331	187331	187332	187331	187331	187332

### Dimensions in mm



Model	A	B	C	D	G	H	I	J	L
T500	90	18-30	111	Ø60	55	236	Ø115	110	121
T700	135	25-40	150	Ø92	62	256	Ø155	134	157



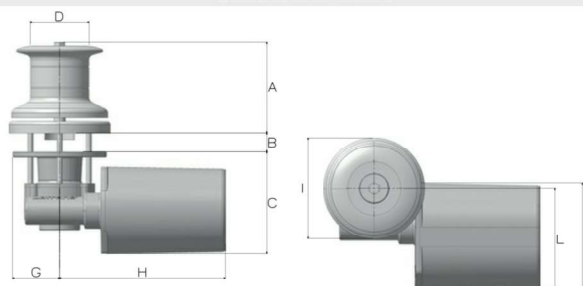


## T1000 - T1500 - T1700 - Capstan

Order Number					
Chromed Bronze					
T1000		T1500		T1700	
1000 watt	1000 watt (24v)	1500 watt	1500 watt (24v)	1700 watt	1700 watt (24v)
417946	187324	220014	418161	472407	187326

Order Number					
Aluminium					
T1000		T1500		T1700	
1000 watt	1000 watt (24v)	1500 watt	1500 watt (24v)	1700 watt	1700 watt (24v)
409564	409567	600058	600062	600066	600069

### Dimensions in mm



Model	A	B	C	D	G	H	I	J	L
T1000	135	25-40	150	Ø92	62	256	Ø155	134	157
T1500	162	50-70	160	Ø104	73	236	Ø191	165	157
T1700	162	50-70	165	Ø104	90	300	Ø191	Ø127	140

Construction	Chromed Bronze					
Model	T1000		T1500		T1700	
Motor Size	1000 watt		1500 watt		1700 watt	
Power	12 volt	24 volt	12 volt	24 volt	12 volt	24 volt
Consumption	135 amps	70 amps	150 amps	75 amps	180 amps	90 amps
Max. Pull	1000kg	1060kg	1200kg	1270kg	1600kg	1695kg
Lift working load	150kg	160kg	165kg	165kg	200kg	215kg
Hauling speed	20 to 40m per min	23 to 40m per min	17 to 40m per min	19 to 40m per min	14 to 32m per min	15 to 32m per min
Weight	21kg	21kg	27kg	27kg	30kg	30kg
Recommend Circuit Breaker - Part number	187333	187332	187333	187332	187334	187332

Construction	Aluminium					
Model	T1000		T1500		T1700	
Motor Size	1000 watt		1500 watt		1700 watt	
Power	12 volt	24 volt	12 volt	24 volt	12 volt	24 volt
Consumption	135 amps	70 amps	150 amps	75 amps	180 amps	90 amps
Max. Pull	1000kg	1060kg	1200kg	1270kg	1600kg	1695kg
Lift working load	150kg	160kg	165kg	165kg	200kg	215kg
Hauling speed	20 to 40m per min	23 to 40m per min	17 to 40m per min	19 to 40m per min	14 to 32m per min	15 to 32m per min
Weight	16kg	16kg	18kg	18kg	25kg	25kg
Recommend Circuit Breaker - Part number	187333	187332	187333	187332	187334	187332



## ST1000 - ST1500 - T1700 - Capstan

Marine AISI 316L Stainless steel base & drum

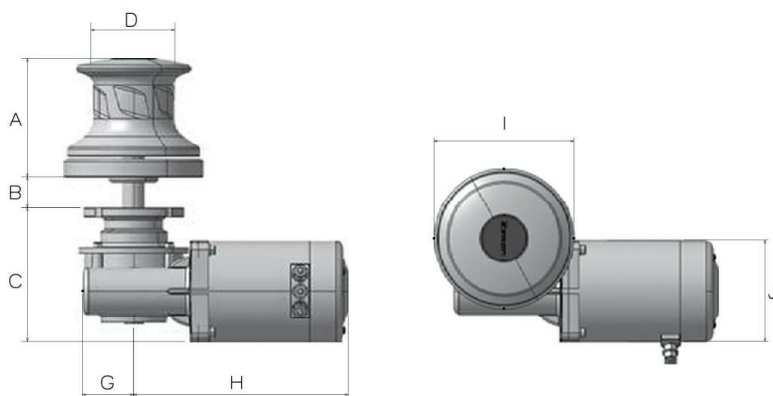
Heavy duty electric motor

Anodised marine aluminium gearbox

Order Number		
Stainless Steel		
ST1000	ST1500	ST1700
1000 watt	1500 watt	1700 watt
636297	636298	636299

Construction	Stainless Steel		
Model	T1000	T1500	T1700
Motor Size	1000 watt	1500 watt	1700 watt
Power	24 volt	24 volt	24 volt
Consumption	70 amps	75 amps	90 amps
Max. Pull	1060kg	1270kg	1695kg
Lift working load	160kg	165kg	215kg
Hauling speed	23 to 40m per min	19 to 40m per min	15 to 32m per min
Weight	21kg	27kg	30kg
Recommend Circuit Breaker - Part number	636088	636088	187332

### Dimensions in mm



Model	A	B	C	D	G	H	I	J	L
ST1000	134	25-40	150	91	62	256	157	134	157
ST1500	164	50-70	160	97	73	236	170	165	157
ST1700	164	50-70	165	97	90	300	170	127	140







## T2000 - T2500 - Capstan

### Main Features

- Luxury Chrome bronze base and drum
- Heavy duty rated IP67 electric motor
- Anodised marine aluminium gearbox

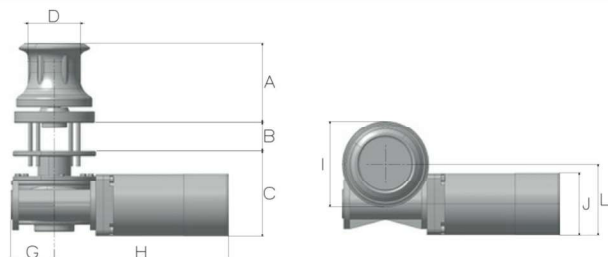
Order Number						
Chromed Bronze						
T2000				T2500		
2200 watt	2300 watt - cw	2300 watt - ccw	Hydraulic - 9cc	2700 watt	2700 watt	Hydraulic - 9cc
600071	404967	600729	602140	600070	476239	602168

\*\* Cw: the windlass pulls clockwise Ccw: the windlass pulls counter clockwise

Construction	Chromed Bronze				Aluminium		
Model	T2000				T2500		
Motor Size	2200 watt	2300 watt		Hydraulic - 9cc	2700 watt	2700 watt	Hydraulic - 9cc
Type**	Cw	Cw	Ccw	Cw	Cw	Cw	Cw
Power	230-400 volt	24 volt	24 volt		230-400 volt	24 volt	
Consumption		180 amps	180 amps			210 amps	
Max. Pull	2200kg	2000kg	2000kg	2500kg	2200kg	2400kg	2500kg
Lift working load	595kg	545kg	545kg	680kg	595kg	650kg	680kg
Hauling speed	15m per min	15 to 31m per min	15 to 31m per min	15m per min	15m per min	15 to 31m per min	15m per min
Weight	52kg	52kg	52kg	40kg	52kg	53kg	40kg
Hydraulic Pressure				200 bar			200 bar
Hydraulic Flow				32 litres per min			32 litres per min

### Dimensions in mm

\*\* Cw: the windlass pulls clockwise Ccw: the windlass pulls counter clockwise



Model	A	B	C	D	G	H	I	J	L
T2000	190	60-90	212	Ø125	105	420	Ø194	Ø152	176
T2500	191	90-130	212	Ø125	105	420	Ø230	Ø152	172





## ST2000 - ST2500 - Capstan

Marine AISI 316L Stainless steel base & drum

Heavy duty electric motor

Anodised marine aluminium gearbox

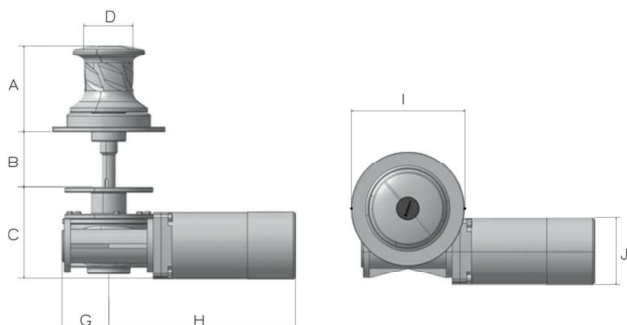
Order Number				
Chromed Bronze				
ST2000		ST2500		
2300 watt - cw (24v)	2300 watt - ccw (24v)	2200 watt - cw (230-400v)	2700 watt - cw (24v)	Hydraulic - 9cc
636300	636301	636302	636303	636304

**\*\* Cw: the windlass pulls clockwise    Ccw: the windlass pulls counter clockwise**

Construction	Chromed Bronze				Aluminium
Model	T2000		T2500		
Motor Size	2300 watt		2200 watt	2700 watt	Hydraulic - 9cc
Type**	Cw	Ccw	Cw	Cw	Cw
Power	24 volt	24 volt	230-400 volt	24 volt	
Consumption	180 amps	180 amps		210 amps	
Max. Pull	2000kg	2000kg	2200kg	2400kg	2500kg
Lift working load	545kg	545kg	595kg	650kg	680kg
Hauling speed	15 to 31m per min	15 to 31m per min	15m per min	15 to 31m per min	15m per min
Weight	52kg	52kg	52kg	53kg	40kg
Hydraulic Pressure					200 bar
Hydraulic Flow					32 litres per min

### Dimensions in mm

**\*\* Cw: the windlass pulls clockwise    Ccw: the windlass pulls counter clockwise**



Model	A	B	C	D	G	H	I	J	L
ST2000	187	60-90	212	110	105	420	190	152	176
ST2500	194	60-90	212	110	105	420	255	152	172





## ST3000 - ST4000 - Capstan

Marine AISI 316L Stainless steel base & drum

Heavy duty electric motor

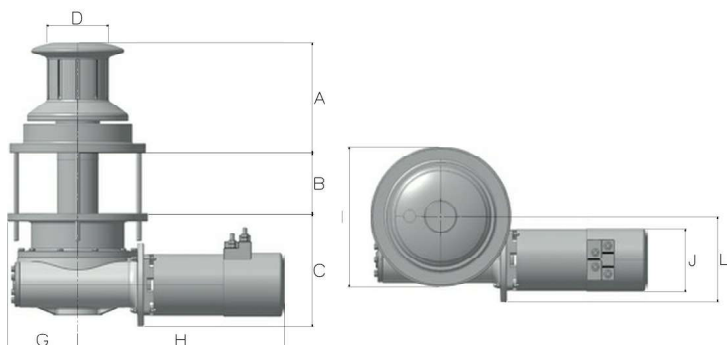
Anodised marine aluminium gearbox

Order Number						
Stainless Steel						
ST3000				ST4000		
2200 watt - (400v)	3000 watt - (24v)	3600 watt - (400v)	Hydraulic - 9cc	3500 watt - (24v)	4000 watt - (400v)	5500 watt - (400v)
600767	602187	602196	602189	600077	600771	423284



Construction	Stainless Steel						
Model	ST3000				ST4000		
Motor Size	2200 watt	3000 watt	3600 watt	Hydraulic - 9cc	3500 watt	4000 watt	5500 watt
Power	400 volt	24 volt	400 volt		24 volt	400 volt	400 volt
Consumption		210 amps			215 amps		
Max. Pull	3000kg	3000kg	3500kg	2500kg	5500kg	5000kg	5000kg
Lift working load	815kg	600kg	950kg	680kg	690kg	850kg	1550kg
Hauling speed	16m per min	14 to 27m per min	14 to 27m per min	17m per min	10 to 15m per min	10m per min	11m per min
Weight	75kg	75kg	75kg	40kg	120kg	120kg	105kg
Hydraulic Pressure				200 bar			
Hydraulic Flow				32 litres per min			

### Dimensions in mm



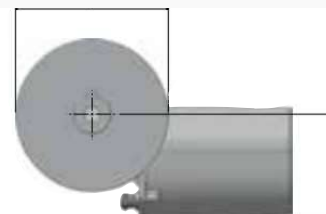
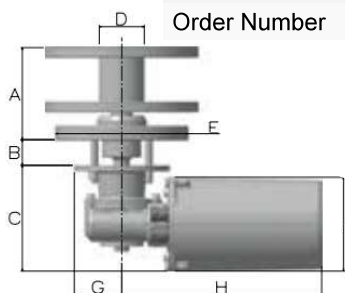
Model	A	B	C	D	G	H	I	J	L
ST3000	206	60-90	190	Ø150	142	436	Ø255	Ø152	190
ST4000	267	150	272	Ø150	170	502	Ø340	Ø154	206

## CETO



The new CETO model is a unit built for the professional fishermen used for retrieving clam fishing baskets. They are assembled using a heavy duty electric motor and gearbox, with the motor contained in an IP67 rated cover to be protected from humidity and sea water, and by a strong aluminum drum able to contain approximately 20 meters of fine rope. They are available at a power rating of 1000W at 12V or 24V. The drum is driven by use of a high torque worm gear box with the gear case made in black anodized marine aluminum. The gears are made of special bronze and steel in order to withstand the high stress during the intensive use of such an operation. The top part is made by a simple construction of a anodized marine aluminum for the base and drum, and a stainless steel AISI 431 shaft.

Construction	Marine Anodised Aluminium
Motor Size	1000 W
Power Supply	12 V
Max. Pull (kg)	850
Working Load (kg)	175
Amps at working load	165
Line speed at working Load	15m per min
Max line speed	15m per min
Weight (kg)	16
Circuit Breaker (available separately)	3
Control Box	Included in package
Order Number	635999



Model	A	B	C	D	E	G	H	I	J	L
CETO	180	25-40	150	60	-	72.5	256	200	134	157
Tender Winch	110	18-30	124	53	156	56	236	180	110	121

## Tender Winch

Construction	Marine Anodised Aluminium		
Motor Size	500 W	700 W	
Power Supply	12 V	12 V	24 V
Max. Pull (kg)	400	550	600
Working Load (kg)	90	125	125
Amps at working load	120	150	150
Line speed at working Load	17m per min	15m per min	15m per min
Max line speed	20m per min	20m per min	20m per min
Weight (kg)	9	9	9
Circuit Breaker (available separately)	187331	187332	187331
Control Box	Included in package		
Order Number	30054	602122	602123



The Tender Winch models are units designed to recover a small tender or a jet ski. They are assembled using a heavy duty electric motor and gearbox, with the motor contained in an IP67 rated cover to be protected from humidity and sea water, and by a strong aluminum drum able to contain the necessary belt. They are available at a power rating of 700W at 12V or 24V. The drum is driven by use of a high torque worm gear box with the gear case made in black anodized marine aluminum. The gears are made of special bronze and steel in order to withstand the high stress during operation. The top part is made by a simple construction of a anodized marine aluminum for the base and drum, and a stainless steel AISI 431 shaft.



# Windlass Accessories



## Panel Chain Counter IRIS

This fly bridge chain counter IRIS is a technologically advanced instrument with an elegant and ergonomic design making it suitable for all types of boat cockpits. IRIS is supplied with an evolved microprocessor, with different operations allowing optimum anchoring.

- Chain speed indicator / mooring length in meters or feet
- Voltage indicator
- Up alarm sensor
- Switch on button / Key tones adjustment
- High vision LCD display / Backlit display screen / Eight levels of contrast
- Six language menu (IT, EN, FR, DE, ES, GR)
- Able to control free fall windlasses
- Parallel connection

Order number	Model	Description
600017	IRIS	Panel Chaincounter



## Galaxy Chain Counter

Galaxy chain counters provide absolute comfort on board during anchoring manoeuvres as you are in full control of the situation at the touch of a button. Complies with IP 67 standards (dust and water proof).

- Power supply : 10-30V dc
- High vision LCD display
- Multilingual menu (EN, FR, DE, ES, IT)
- Reverse polarity protection
- Automatic anchor lower function
- Anchor retrieving alarm
- Display of consumption, power supply, chain speed and mooring lengths in meters or feet.
- Sensor detection function
- Possibility of parallel connection.

Order number	Model	Description
600015	Galaxy 505	Remote hand switch. With 4 mtr coiled wire
600016	Galaxy 703	Radio remote control



## Galaxy Remote Controls

- Water proof housing
- Power supply : 10-30V dc
- Reverse Polarity Protection
- Possibility of parallel connection
- On/ off Switch (Galaxy 303)
- Automatic anchor dropping function (Galaxy 303)

Galaxy Remote Controls comply with IP 67 standards (dust and water proof)

Order number	Model	Description
600013	Galaxy 102	Remote hand switch. With 4 mtr coiled wire



## Radio Remote Control

Lofrans' radio remote control is designed to work with our range of windlasses. The remote control can also be used to operate other onboard equipment such as thrusters, passerelles, cranes, etc.

- Transmitter rated IP67
- Supports up to 8 independently controlled channels
- Each receiver can switch 4 channels (12/24 V - 2 A)
- Each transmitter can handle 2 receivers (8 channels)
- Digital recognition avoids accidental activation of other system
- Zero power consumption when in standby mode (transmitter)
- Easy to install and set up, simple to use

Order number	Description
312976	Transmitter & Receiver
312979	Transmitter only
312980	Receiver only



## Mini Remote Control

Lofrans' Mini remote control is designed to work with our range of windlasses. The remote control can also be used to operate other onboard equipment such as thrusters, passerelles, cranes, etc.

Easy to install and setup, simple to use.  
Small form factor makes it ideal to carry it anywhere on-board.  
Supports up to 4 independently controlled channels (12/24V - 10A).  
Zero Power consumption when in standby (transmitter)  
Transmitter rated IP 67

Order number	Description
636305	Transmitter & Receiver



## Foot Switch

Easy to install  
Stainless steel base and composite cover. The rubber coated switch is resistant to UV rays and sea water. Foot switch complies with IP 67 standards ( dust and water proof)

Order number	Model	Description	Cover Colour
600011	Down	Red Rubber	Grey
600012	Up	Black Rubber	Grey
602120	Down	Red Rubber	White
602119	Up	Black Rubber	White



This device, made by marine stainless steel (INOX), is a switch that works simply by pushing the foot on the button. The button is in special marine rubber able to withstand UV ray and the marine environment.

Order number	Model	Description	Cover Colour
636074	Down	Red Rubber	Stainless Steel
636075	Up	Black Rubber	Stainless Steel



## Control Switch

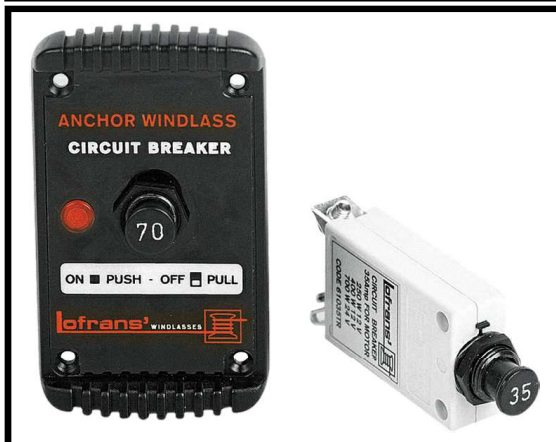
### TYPE "L"

This switch, usually installed on the cockpit, is made by a fixing plaque and by a three position switch (Up-Off-Down)

### TYPE "C"

This rocker switch has a modern and practical design. It is reliable and watertight and it is supplied with the apposite case to make simple and sure the installation.

Order number	Description
404728	Control switch for cockpit, type L. 3-positions : Up-off-Down
187338	Rocker control switch, Type C



## Circuit Breaker

The circuit breaker is an essential component of the electric plant:

- Protects from dangerous short circuits
- Protects the electric motor of the windlass
- Cuts tension to the windlass when desired

Type	35 Amps	40 Amps	70 Amps	80 Amps	100 Amps	125 Amps
Thermal	187331		187332		187333	187334
Hydraulic		600029		630616	600028	



## Circuit Breaker - Surface mount

The circuit breaker is an essential component of the electric plant:

- Protects from dangerous short circuits
- Protects the electric motor of the windlass
- Cuts tension to the windlass when desired

In case of short circuit the intervention is immediate.

Type	40 Amps	70 Amps	100 Amps	110 Amps	120 Amps	150 Amps
Thermal	636087	636088	636089	636090	636091	636092



## Solenoids

The Control Box is an electric unit made up of two remote control switches enclosed inside a special container which protects it from marine corrosion. Degree of protection IP 56 - protection against deckwater.

Order Number	No. of terminals	Power	Motor Size
600018	3	12v	500-1700w
600019	3	24v	500-1700w
600020	3	24v	1700-2300w
602590	4	12v	500-700w
600021	4	12v	1000-1700w
600022	4	24v	500-1700w
602587	4	24v	3500w

# Spare parts for Windlasses

## Gypsies

Windlass Model	Gypsy Chain	Pitch Measurement	Order Number	Part No
X0 - X1 - X1 alu - SX1	6 mm	18mm	630970	206B
Dorado	6 mm	18mm	630974	206A
X2 - X2 alu - SX1 - Project 1000	6 mm	18mm	630953	916A
Kobra - Cayman - Royal	6 mm	18mm	630966	276A
X1 - X1 alu - SX1	8 mm	24mm	630999	206D
Dorado	8 mm	24mm	631003	206E
X2 - X2 alu - SX2 - Project 1000	8 mm	24mm	630949	916B
Kobra - Cayman - Tigres - Royal	8 mm	24mm	630994	276C
X3 - X3 alu - SX3 - Project 1500	8 mm	24mm	630957	989A
X2 - X2 alu - SX2 - Project 1000	10 mm ISO 4565	30mm	630951	916C
X3 - X3 alu - SX3 - Project 1500	10 mm ISO 4565	30mm	630959	989B
X2 - X2 alu - SX2 - Project 1000	10 mm, DIN766	28mm	630955	916D
X3 - X3 alu - SX3 - Project 1500	10 mm, DIN766	28mm	630966	989C
Kobra - Cayman - Tigres - Royal	10 mm, DIN766	28mm	631118	276F
Falkon - Titan - Project 2000 - X4 - SX3.5 - SX4	10 mm, DIN766	28mm	631132	367C
Kobra - Cayman - Tigres - Royal	10 3/8 HT mm	30mm	631011	276E
Falkon - Titan - Project 2000 - X4 - SX3.5 - SX4	10 mm 3/8 HT	30mm	631022	367B
X3 - X3 alu - SX3 - Project 1500	12 mm	36mm	630961	989D
Tigres	12mm	36mm	631028	522G
Falkon - Titan - Project 2000 - X4 - SX3.5 - SX4	12-13 mm, DIN766	36mm	631031	367D
Ercole - Ercole Vertical - Super Ercole - X5 - SX5	12-13 mm, DIN766	36mm	631039	574B
Ercole - Ercole Vertical - Super Ercole - X5 - SX5	14 mm	42mm	631065	574D
Falkon - Titan - Project 2000 - X4 - SX3.5 - SX4	14 mm	42mm	631059	367G
Ercole - Ercole Vertical - Super Ercole	16 mm		631082	574E
Ercole - Ercole Vertical - Super Ercole	16 mm		631088	574F



## Motors

Voltage		12 V		24 V		400 V	
Motor Size	Windlass Model	Order Number	Part No	Order Number	Part No	Order Number	Part No
500 W	X0 - X1 - X1 alu - Dorado - T500	633509	233E				
700 W	X1 - Dorado	634390	233D				
	X2	634386	951D				
	X2 alu - T700	633510	960A	633511	960B		
1000 W	Cayman	634367	353C	634368	353D		
	Kobra - X2 alu - T1000 - X1	633512	961A				
	Project 1000	634375	930A	634378	930B		
	X2	634373	951A	634374	951B		
	X2 alu - T700 - T1000			633513	961B		
1500 W	Project 1500	634380	1009A	634382	1009B		
	Tigres - T1500 - X3	634369	418E	634370	418F		
1700 W	Falkon - T1700 - X3 - X3.5	634371	418G	634372	418H		
2000 W	Project 2000			634384	1010		
2200 W	Titan - X4					633478	680
2300 W	Titan - X4 - X3.5			633502	419		
2700 W	Titan - X4 - X3.5			633503	433		
3500 W	Ercole - Ercole Vertical - Super Ercole			633505	640		
4000 W	Ercole - Ercole Vertical - Super Ercole					633483	641F



## Full Maintenance Kit



Order Number	Model
72036	X0
72037	X1
72038	X2 and Project 1000
72039	X2 Aluminium
72040	X3 and Project 1500
72045	Atlas
72046	Royal
72047	Dorado
72048	Kobra and Cayman
72050	Tigres
72051	Falkon

## Handles

Windlass Model	Order Number	Part No.
Project 1000 - Project 1500 - X2 - X3	633302	272
Ercole	633318	733
Falkon	633317	466
X1	633303	842A
Project 2000 - X4	633316	884
Royal	633315	836
Tigres	633314	352
Ercole Vertical	633319	566

## Kit F - Finger

Order Number	Windlass Model
474023	X1, X2 & Project 1000
474017	X3 & Project 1500
601047	X2 (Stainless Steel)
602105	X3 (Stainless Steel)
35036	Dorado

## Kit S - Magnetic Sensors

Order Number	Windlass Model
474053	X1, X2 & X3
600033	X4
474048	All Horizontal windlass

## Motor Brush Kit

Order Number	Motor Size
634781	500W 12V - 700W 12/24V
427922	1000W 12V
634780	1000W 24V - 1200W 24V
478222	1200W 12V
428947	1500W - 1700W 12V
634782	1500W - 1700W 24V
408978	2300W 24V
416795	2500W 24V
634785	3500W 24V



## Chain Stopper

The **chain stopper** is installed between the windlass and the bow roller in order to take the load off the windlass, either when the yacht is anchored or tensioning the anchor chain when the anchor is stowed. Windlasses which have two gypsies or a gypsy and a drum, need the chain stopper in order to isolate the one gypsy and either work with the other gypsy or with the drum.

Order number	Description
636257	8-10-12mm Normal Chain
72191	12-13-14mm Normal Chain
72192	14-16mm Studlink Chain
72193	14-16mm Normal Chain

## Chain for Anchoring

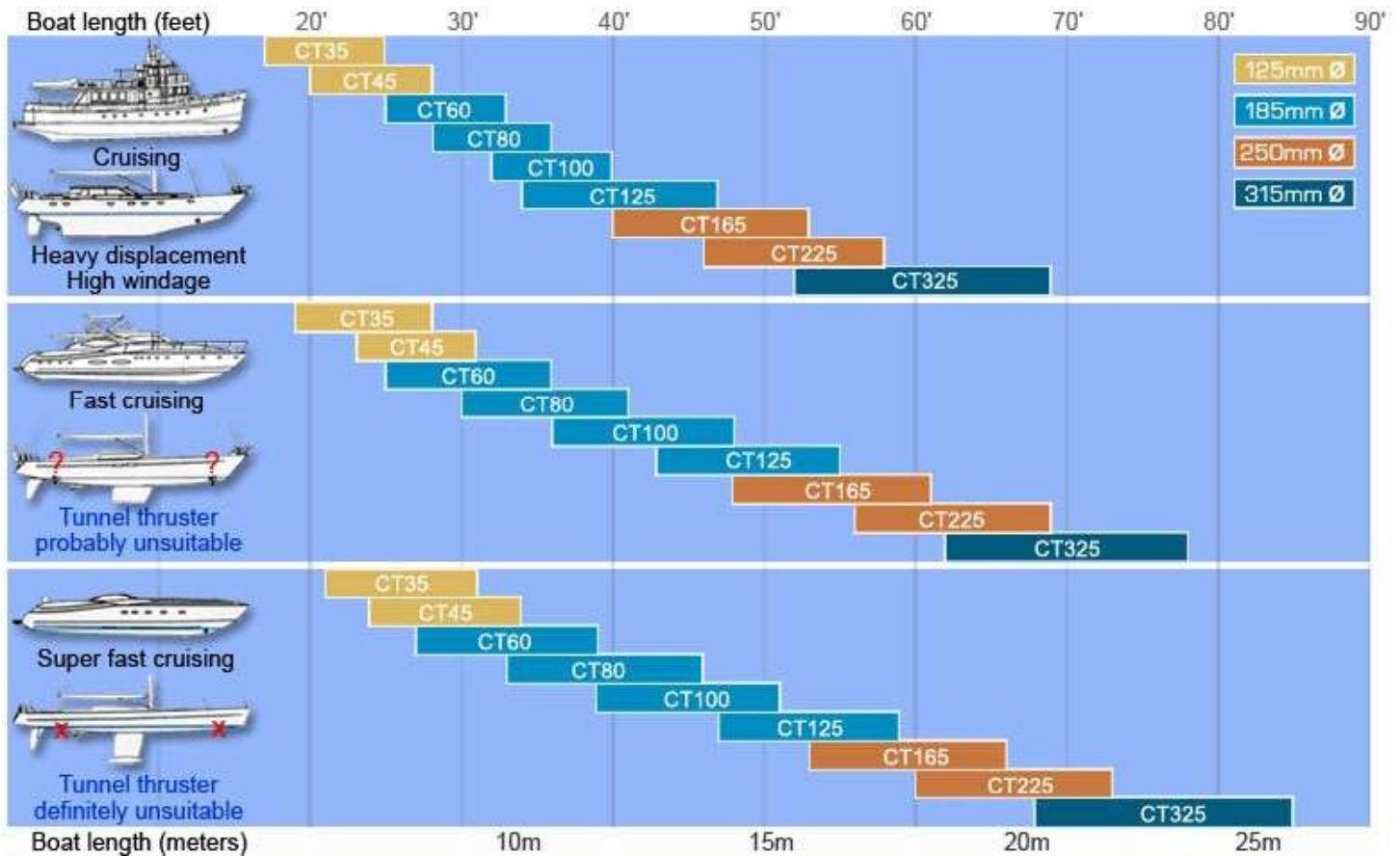
- Hot Dip galvanized
- Grade 40 - tougher than grade 30 - over 30% higher breaking load
- Tested on Lofrans windlasses
- Lofrans Authenticity check - "LFR" is engraved one in every 3 to 6 rings

Order number	72312	72313	72315	72316
Size (mm)	6	8	10	12
Pitch Measurement	18.5	24	30	36
Weight (kg) per metre	0.8	1.42	2.28	3.23
Breaking load (kg)	2400	4300	6750	9700

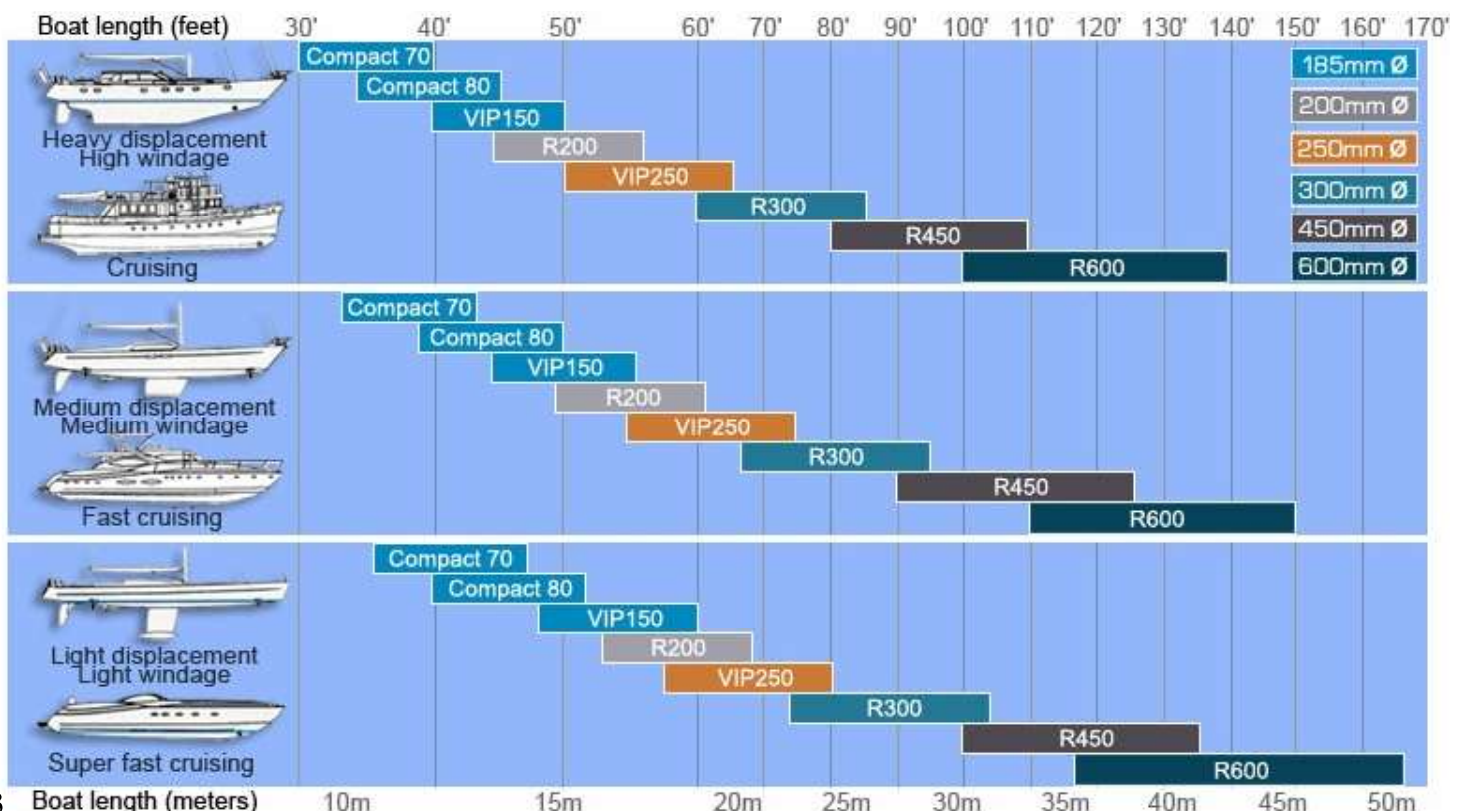


## Bow & Stern Thrusters

### Tunnel Thrusters



### Retractable Thrusters





## Electric Tunnel Thrusters

A complete range of 12-24 volt composite electric tunnel thrusters is available for motor yachts and deep footed sailing yachts from 5 to 26 metres.

Designed for performance and durability, each model is easy to fit, highly cost effective, and integrates a variety of unique features.

- Patented composite drive legs, maintenance-free
- Case hardened spiro-conical gears
- No anodes required
- Purpose built DC motors
- Electronic control boxes for unrivaled safety features
- Safe, high power connections
- Purpose built high specification DC contactors
- Line shields

Each model can be fitted at the stern thanks to our range of stern adaptors.

Power	Model	Order Number	Thrust up to	Propellers	Power	Weight
12 Volt	CT35	42529	35kg	Single	2.7 kW/ 3.6 HP	9.6kg
	CT45	317603	40kg	Duo	3.2 kW/ 4.3 HP	9.7kg
	CT60	42530	58kg	Single	4.4 kW/ 5.8 HP	14.7kg
	CT80	42532	69kg	Duo	4.8 kW/ 6.4 HP	15kg
	CT100	42534	96kg	Duo	7.1 kW/ 9.5 HP	24kg
24 Volt	CT60	42531	63kg	Single	4.4 kW/ 5.9 HP	14.8kg
	CT80	42533	75kg	Duo	5.3 kW/ 7.1 HP	15.1kg
	CT125	42535	115kg	Duo	8.6 kW/ 11.5 HP	24kg
	CT165	317557	160kg	Duo	11.9 kW/ 15.9 HP	36kg
	CT225	317558	195kg	Duo	15 kW/ 20 HP	37kg
	CT300	317606	255kg	Duo	19.7 kW/ 26.4 HP	58kg
	CT325	42542	255kg	Duo	19.7 kW/ 26.4 HP	59kg



## Electric Retractable Thruster

### Compact Retract

Retractable thrusters are ideally suited to modern sailing yachts. When deployed, retractable units offer optimum immersion depth and exceptional power efficiency. When retracted, hulls are left smooth and unaffected.

Designed for yachts from 9 to 16 metres. This lightweight electric retractable thruster, the first of its kind, has been a major success with shipyards from the start.

- Lightweight composite construction
- Lowest profile and smallest hull opening on the market
- Bolted onto flange, not directly laminated into the hull
- Rapid deployment
- No exposed moving parts inside yacht
- Splash resistant inside yacht

Compact Retract is delivered with grey joystick and control system cable

	Order Number	Voltage	Power	Thrust	Propellers	Weight
Compact 70	317821	12 volt	4.79 kW/ 6.4 CV	70kg	Duo	40kg
Compact 80	317822	24 volt	5.28 kW/ 7.1 CV	85kg	Duo	40kg





## Stern Pod Thrusters

The Max Power Stern Pod offers an innovative solution to the often difficult task of installing a thruster in the stern of modern motor yachts. Combining a dry area on the stern with correct immersion depth and sufficient access is often a challenge.

Designed with these constraints in mind, Stern Pod units can be installed entirely from the outside of the transom, greatly reducing the need for inside access. This allows greater immersion depth to be achieved.

The Stern Pod housing is **waterproof and ignition protected (ISO 8846)** designed to withstand the corrosive damp atmosphere of the bilge.

Entirely assembled and tested in our factory, Stern pod units guarantee long term trouble-free operation with only minimal maintenance care.

Power	Model	Order Number	Thrust up to	Boat Size	Power	Weight
12 Volt	CT45	317625	40kg	6 to 10.5 metres	3.2 kW/ 4.3 HP	21kg
	CT80	317628	69kg	8.5 to 14 metres	4.8 kW/ 6.4 HP	31kg
	CT100	317630	96kg	9.8 to 15.5 metres	7.1 kW/ 9.5 HP	41kg
24 Volt	CT80	317629	75kg	8.5 to 14 metres	4.8 kW/ 6.4 HP	31kg
	CT125	317631	115kg	10.5 to 18 metres	8.6 kW/ 11.5 HP	41kg
	CT165	317632	160kg	12 to 20 metres	11.9 kW/ 15.9 HP	61kg
	CT225	317633	195kg	14 to 22 metres	15 kW/ 20 HP	61kg



## Electric Retractable Thruster

### VIP150

The largest electric thruster in the Max Power range, the **VIP 150 electric** is a vertically retracting DC thruster.

Available in two thrust ratings: **12V & 24V**, the VIP 150 Electric is particularly well suited to boats from 45' to 60'.

High performance & excellent reliability have made this unit an industry standard for nearly 10 years.

Recently upgraded the **VIP 150 Electric** offers a new control system and all the safety features common to Max Power bow and stern thrusters.

Compact Retractable is delivered with black joystick and control system cable

	Order Number	Voltage	Power	Thrust	Propellers	Weight
VIP150 12v	35023	12 volt	7.1 kW/ 9.5 HP	96kg	Duo	40kg
VIP150 24v	35024	24 volt	8.6 kW/ 11.5 HP	115kg	Duo	40kg





## Hydraulic Tunnel Thrusters

Max Power's hydraulic tunnel thrusters are suitable for medium to heavy displacement high windage vessels from 12 to 26 metres.

Designed for durability and performance, hydraulic tunnel thrusters are ideal when long runtimes are required. Manufactured from corrosion-free components, these models are robust and water resistant.

The nature of hydraulic power allows these systems to provide proportional thrust control. Offering variable thrust caters for a wide range of conditions.

Each model can be fitted at the stern thanks to our range of stern adaptors.

Size	Order Number	Tunnel Diameter	Cubic Centimeters	Hydraulic Power	Maximum thrust	Propellers	Weight
CT125HYD	317589	185mm	6 cc	6.5 kW	115kg	Duo	12 kg
CT125HYD	317590	185mm	8 cc	9.5 kW	115kg	Duo	12 kg
CT125HYD	317588	185mm	11 cc	9.3 kW	115kg	Duo	12 kg
CT225HYD	317591	250mm	11cc	13.5 kW	200 kg	Duo	19 kg
CT325HYD	317598	315mm	14 cc	19.5 kW	275 kg	Duo	24 kg
CT325HYD	317599	315mm	19 cc	19.5 kW	275 kg	Duo	24 kg



## Hydraulic Retractable Thruster

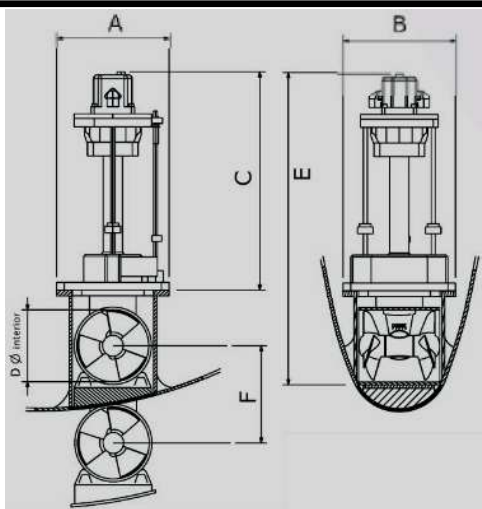
When performance is paramount, hydraulic retractable thrusters provide a perfect solution.

Lightweight, powerful and allowing near perfect weight distribution : designers and prestigious yards have consistently specified Max Power thrusters over the years.

Hydraulic flow and pressure can be customised to suit hydraulic system specifications. Many of the larger units in this range are manufactured to order.

VIP 150HYD	
12 volt Control	317702
24 volt Control	317703
Max. Thrust	120kg
Hydraulic Power	10kW
Propellers	Duo
Weight	28kg

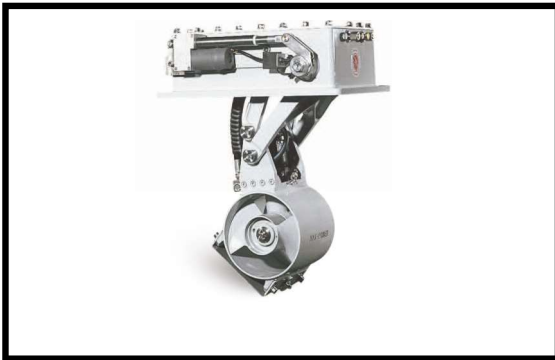
Dimensions (mm)	
A	290
B	290
C	580
D	185
E	810
F	240



VIP 250HYD	
24 volt Control	317705
Max. Thrust	200kg
Hydraulic Power	13.5kW
Propellers	Duo
Weight	37kg

Dimensions (mm)	
A	360
B	360
C	620
D	250
E	950
F	295

## Hydraulic Retractable Thrusters



	R200/6	R200/8
24 volt Control	317801	317802
Max. Thrust	10kg per kW	10kg per kW
Max. Hydraulic Power	8kW	12kW
Propellers	Duo, 2 blades	Duo, 2 blades
Weight	35kg	35kg

Dimensions (mm)	
A	500
B	355
C	320
D	200
E	255



	R300/15	R300/21
24 volt Control	317807	
Electrohydro		317809
Max. Thrust	11kg per kW	11kg per kW
Max. Hydraulic Power	11kW	17.6kW
Propellers	Duo, 3 blades	Duo, 3 blades
Weight	73kg	73kg

Dimensions (mm)	
A	665
B	500
C	450
D	300
E	360



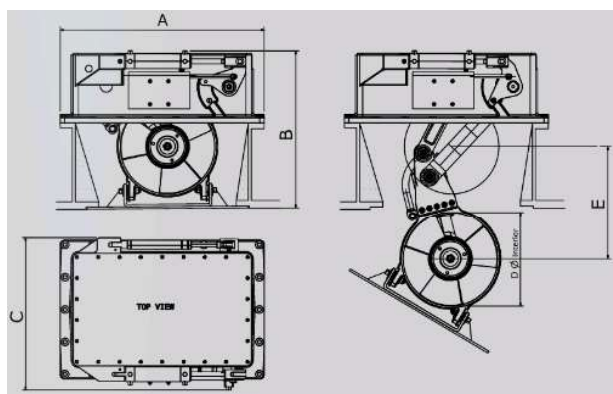
	R450/34	R450/40
Lift pump Control	317813	317814
Max. Thrust	11kg per kW	11kg per kW
Max. Hydraulic Power	33kW	40.33kW
Propellers	Duo, 5 blades	Duo, 5 blades
Weight	165kg	165kg

Dimensions (mm)	
A	940
B	748
C	460
D	450
E	540



	R600
Lift pump Control	317819
Max. Thrust	12kg per kW
Max. Hydraulic Power	83.33kW
Propellers	Mono, 4 blades
Weight	320kg

Dimensions (mm)	
A	1210
B	967
C	985
D	600
E	772



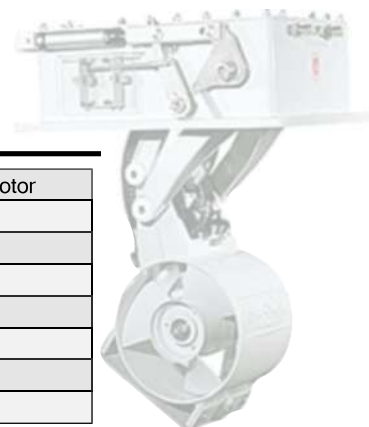
### Custom Services

Several versions of each Retractable™ model are available.

Hydraulic flow and pressure can be customised to suit hydraulic system specifications.

Many of the larger units in this range are manufactured to order. Specified by designers and architects alike, these technically superior retractable units are supplied to many of the world's finest custom yacht builders.

For more in-depth information on this range please contact us - 07 55029 666



Model	Order Number	Horse Power	kW	Flow	Pressure	Motor
R200/6	317801	10.72	8	22 LPM	220 Bar	6 cc
R200/8	317802	16.08	12	30 LPM	240 Bar	8 cc
R300/15	317807	14.74	11	29 LPM	240 Bar	15 cc
R300/21	317809	23.59	17.6	44 LPM	240 Bar	21 cc
R450/34	317813	44.23	33	90 LPM	220 Bar	34 cc
R450/40	317814	54.06	40.33	110 LPM	220 Bar	40 cc
R600	317819	111.7	83.33	200 LPM	250 Bar	60 cc

Order Number		Description
Full Package Units	317801	Retract R200/6 24 Volt (Complete Package)
	317802	Retract R200/8 24 Volt (Complete Package)
	317807	Retract R300/15 Electro Pump 24v (Complete Package)
	317809	Retract R300/21 Electrohydro (excludes Electro-pump)
317801 R200/6 Package includes	317803	Thruster Assembly R200/6
	312950	Electronic Controller VIP/R200
	318224	Joystick VIP & Retract Grey
	316504	Max Power Distribution Block
	313456	Tank 8ltr White Complete (filter etc)
	35017	Fuse Holder T1
	35020	Fuse 200A T1 for Thrusters
	318401	Battery Cut-off Relay 24 volt
	316511	Electro Pump BK8/8.5cc
	634136	Motor Support (2 pcs)
317802 R200/8 Package includes	317804	Thruster Assembly R200/8
	312950	Electronic Controller VIP/R200
	318224	Joystick VIP & Retract Grey
	316504	Max Power Distribution Block
	313456	Tank 8ltr White Complete (filter etc)
	35017	Fuse Holder T1
	35022	Fuse 315A T1 for Thrusters
	318401	Battery Cut-off Relay 24 volt
	316509	Electro Pump BK13/11cc
	634136	Motor Support (2 pcs)
317807 R300/15 Package includes	317810	Thruster Assembly R300/15
	633652	Electronic Controller R300
	318224	Joystick VIP & Retract Grey
	316501	Max Power Distribution Block
	313450	Tank 12ltr White Complete (filter etc)
	35017	Fuse Holder T1
	35022	Fuse 315A T1 for Thrusters
	318401	Battery Cut-off Relay 24 volt
	316509	Electro Pump BK14/11cc
	634136	Motor Support (2 pcs)
	316515	Lifting Pump R300 (> 2007)
317809 R300/21 Package includes	317811	Thruster Assembly R300/21
	633652	Electronic Controller R300
	318224	Joystick VIP & Retract Grey
	316501	Max Power Distribution Block
	316515	Lifting Pump R300 (>2007)
Thruster Assemblies	317813	Retract R450/34 (Thruster Assembly ONLY)
	317814	Retract R450/40 (Thruster Assembly ONLY)
	317819	Retract R600/60 (Thruster Assembly ONLY)
317813 - R450/34 317814 - R450/40 Additional Components	316515	Lifting Pump R450
	317820	Electronic Controller R450 + Kamewa option
	318224	Joystick VIP & Retract Grey
317819 R600/60 Additional Components	313352	Power Lift R600
		Control Box (upon request)
	318224	Joystick VIP & Retract Grey



## GRP Tunnels

Manufactured from fully isophthalic resin and pre-gel coated, Max Power's high quality tunnels feature the added benefit of a first coat of matt before being filament wound.

Tunnel Length	CT35/45 - 125mm	CT60/80/100/125 - 185mm	CT165/225 - 250mm	CT300 - 300mm	CT325 - 315mm
500mm	42546				
750mm	42547	42549			
1000mm	313804	42550	42553		
1250mm	313809				
1500mm		42551	42554	363811	35004
2000mm				313812	42557
2500mm	42548	42552	42555		



## Mounting Bases

Mounting bases to suit all our retractable thrusters are available to facilitate installation. Manufactured from isophthalic GRP, they can be easily integrated into new builds or retro-fitted.

Aluminium yachts are catered for with suitable aluminium flanges. These are designed to be welded to the top of a mounting base constructed in the hull.

Description	Suitable for	Order Number
Aluminum flange	Compact Retract	311362
	VIP 150	35025
GRP mounting base	Compact Retract	313760
	VIP 150	35026



## Stern Adapters

Also manufactured from fully isophthalic resin, Max Power's stern adaptors are SMC moulded (Sheet moulding compound) in a male / female steel mould.

	CT35/45 - 125mm	CT60/80/100/125 - 185mm	CT165/225 - 250mm	CT325 - 315mm
<b>Stern Adapter</b>	315389	315392	315395	35015

## Cowls

Cowls are easily fitted to the stern adaptors and allow the use of stern thrusters in relatively shallow draft applications.

	CT35/45 - 125mm	CT60/80/100/125 - 185mm	CT165/225 - 250mm
<b>Cowls</b>	315398	315399	315400





## Control Panels

All control panels are specially designed for use with Max Power's complete range of tunnel and retractable thrusters.

### Features :

- Childproof activation
- Automatic shutdown after 30 minutes of inactivity
- Visible and audible motor overheat warning
- Motor overheat shutdown after prior warning (10 seconds)
- Standard automatic battery isolator control
- Time delay switch between port and starboard thrust
- Software protection against short circuits
- Easy to fit and water resistant

Control panels	Grey	Black
Touch panel	318201	318200
Single Joystick	318203	318202
Double Joystick	318205	318204
Joystick for VIP & Compact	318224	318206
Boat Control panel		318234



## Radio Remote Control

Max Power's radio remote control is designed to work with our entire range of tunnel and retractable thrusters. The remote control can also be used to operate other onboard equipment such as windlasses, passerelles, cranes, etc.

- Supports up to 8 independently controlled channels
- Each receiver can switch 4 channels (12/24V - 5A)
- Digital recognition avoids accidental activation of other systems
- Transmitter power supply : 2 lithium batteries 3V (CR2430)
- Receiver power supply : 12/24V
- Zero power consumption when in standby mode
- Easy to install and set up, simple to use.

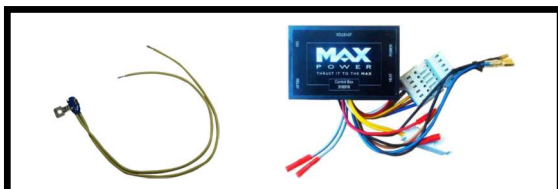
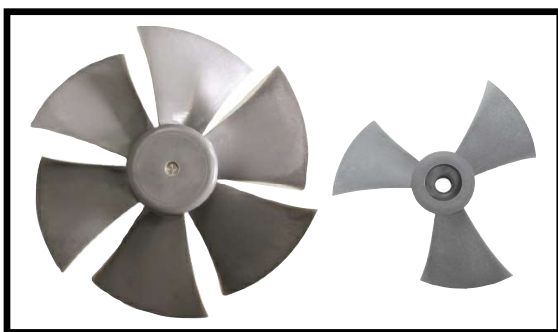
Description	Order Number	Frequency
Transmitter + Receiver	312973	868 MHz
Receiver	312971	868 MHz
Transmitter	312969	868 MHz



## Fuses

Max Power offers a range of calibrated fuses specifically selected and tested to offer an increased level of protection over standard ANL fuses. Chosen for their specific blow curve, Max Power fuses match the requirements of each thruster system.

Thruster Model	CT35/45	CT60	CT80/ Compact Retract	CT60/80/ Compact Retract	CT100/ VIP150	CT125/ VIP150	CT165/ 225	CT300/ 325
Voltage	12	12	12	24	12	24	24	24
Amp	125	160	200	125	315	200	250	400
Fuse	35021	35019	35020	35021	35022	35020	35027	35028
Fuse Holder	35017	35017	35017	35017	35018	35017	35018	35018
Extraction Handle	312882 (for all models)							



## Spare Parts

Size	Order Number
<b>Props</b>	
125mm	35041
185mm	35040
250mm	35042
300mm	35033

Size	Order Number
<b>Prop Pins</b>	
125mm	312058
185mm	312053
250mm	312059

Size	Order Number
<b>Mono Composite Drive Leg</b>	
125mm	315318
185mm	35034
<b>Duo Composite Drive Leg</b>	
125mm	310376
185mm	35035
250mm	315321

	Order Number
<b>Motor Relay Assembly</b>	
CT35/45 - 12 volt	315325
CT60/80 - 12 volt	315326
CT60/80 - 24 volt	315327
CT100/ VIP150 - 12 volt	315328
CT125/ VIP150 - 24 volt	315329
CT165/225 - 24 volt	315331
CT300/315	315334

Voltage	Order Number
<b>Battery Cut off Switch</b>	
12 volt	318400
24 volt	318401

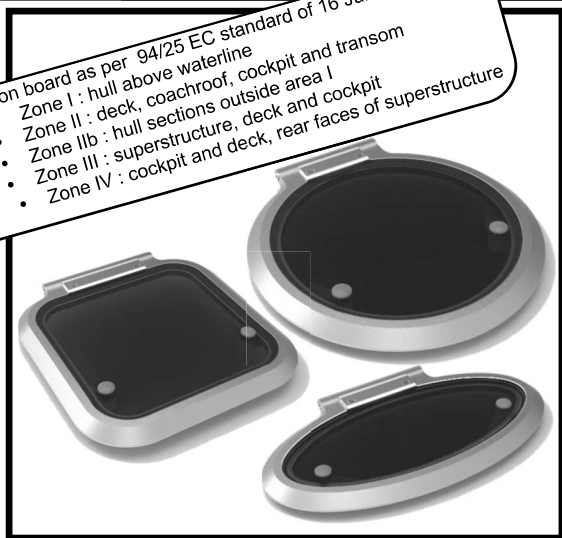
	Order Number
<b>Electronic Thruster Control</b>	315308
<b>Heat Sensor</b>	311363

## Deck Hatches

Range	Features	Type of navigation	Lid	Lower Frame	Assembly	Finishing	CE areas for location on board
Cristal	Medium profile, heavy duty, outwards opening	Blue water	One-piece aluminium casting	Extrusion	With Screws	Satin	II III & IV all categories I - Escape Hatch
Opal	Low profile, outwards opening through stays	Blue water	Extrusion	Extrusion	With Screws	Satin, Shiny or laquered	II III & IV all categories
Tradition	High profile, heavy duty, outwards opening	Blue water	One-piece aluminium casting	Aluminium	With Screws	Satin	II III & IV all categories
Integration	Light and Sturdy. Can be integrated in fixed glazing to increase ventilation. Outwards opening	Coastal cruising or Blue water	Acrylic	Casting	Glue	Satin or laquered	II III & IV all categories

Areas on board as per 94/25 EC standard of 16 June 1996:

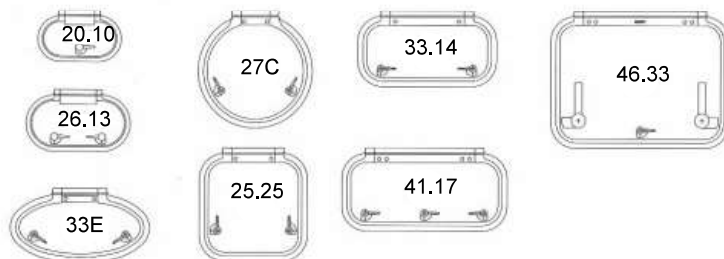
- Zone I : hull above waterline
- Zone II : deck, coachroof, cockpit and transom
- Zone Iib : hull sections outside area I
- Zone III : superstructure, deck and cockpit
- Zone IV : cockpit and deck, rear faces of superstructure



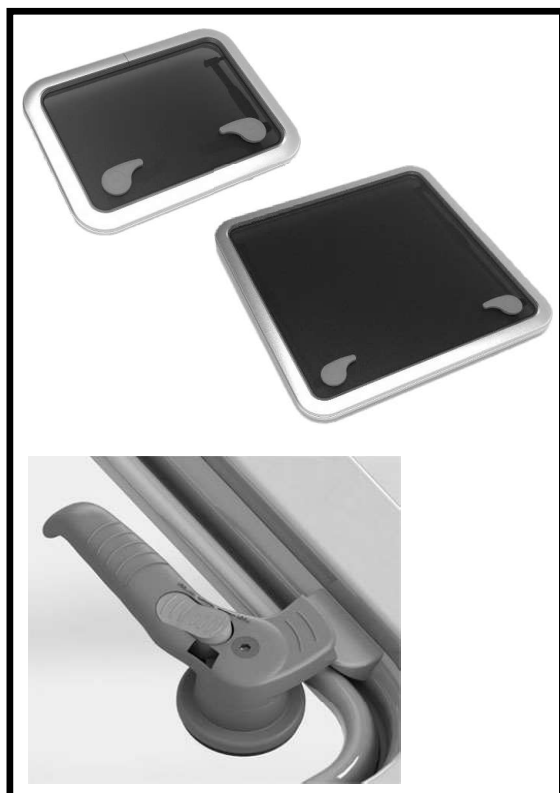
### Integration Hatch

With a low-profile, lightweight construction and acrylic lid, this range is ideally suited for the roof or the deck. The lower frame is engineered from one-piece aluminium casting and therefore provides unequalled strength. Its design is the perfect answer to yachtmen's requirements for slim line deck equipment. Integration hatches open out and can replace roof portlights, ensuring better water draining. Glue mounting is a swift and easy operation, which definitely reduces labour time at boatbuilders.

- Frame flange : 15mm
- Recommend : Sikaflex 292



Size	Order Number	Cutout Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
20.10	117980	200 x 100	223 x 138	50	0.85
26.13	105991	260 x 130	283 x 168	65	1
33E	102122	347 x 156	387 x 208		1.5
27C	102117	278	318		1.6
25.25	117990	250 x 250	300 x 315	50	1.9
33.14	102118	347 x 156	387 x 211	50	1.8
41.17	102124	421 x 176	461 x 231	50	2.2
46.33	102126	457 x 327	497 x 382	50	4.2



## Opal Hatch

In the tradition of Goïot quality, the range of Opal hatches combines optimum watertightness, easy installation and aestheticism thanks to real technological breakthrough:

- Invisible hinges
- One-piece aluminium lid with a thick frame section to provide optimum rigidity
- Slim lid height, 19mm for a teak deck installation

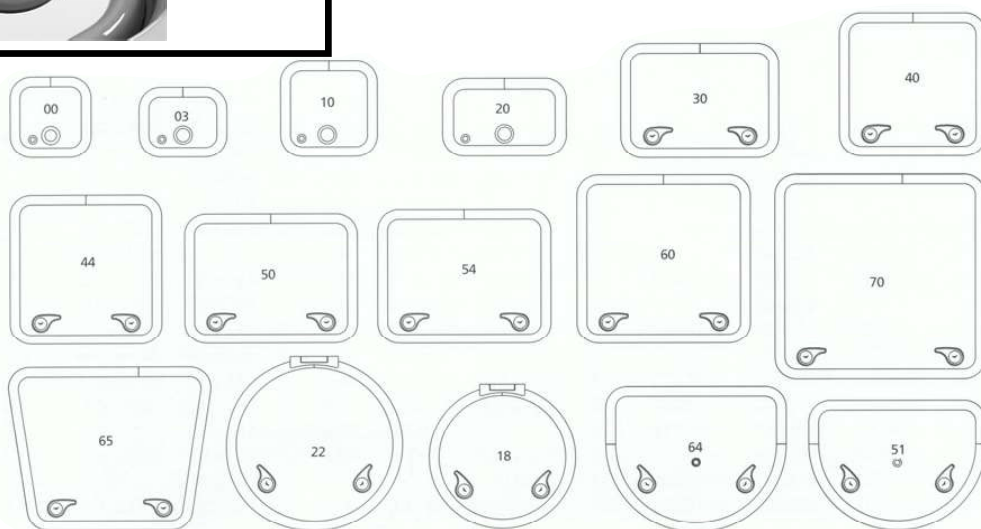
### Opening Device

The ergonomic shape of the handles allows comfortable space for excellent prehension. Feature a lock catch which prevents breaking in from outside. No need for any other locking system from outside.

- All models are equipped with adjustable stay.
- Adjustable opening is as simple as releasing the stay to obtain the right position

- Flange frame : 15mm
- Aluminium hinges
- Acrylic thickness : 10mm
- Lid Height : 29mm
- Telescopic stay (except on sizes 12, 18, 19, & 22)

Hatches must be mounted on a flat surface, allowing +/- 1mm. Not allowed as escape hatches (see page 114).



Size	Product Number	Cut Out Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
00	116020	211 x 211	265 x 265	42.5	2.5
3	116021	231 x 176	285 x 230	42.5	2.6
10	116022	260 x 260	314 x 314	42.5	3.2
18	116034	420	474		4.9
20	116023	347 x 202	401 x 256	42.5	3.5
22	116035	518	572		7.3
30	116024	457 x 327	511 x 381	42.5	5.6
40	116025	421 x 421	475 x 475	42.5	6.2
44	116026	442 x 442	496 x 496	42.5	6.7
50	116027	507 x 377	561 x 431	42.5	5.4
51	116008	518 x 378	572 x 432	42.5	5.6
54	116029	507 x 392	561 x 446	42.5	7.2
60	116030	507 x 507	561 x 561	42.5	7.9
70	116033	627 x 627	681 x 681	42.5	10.8

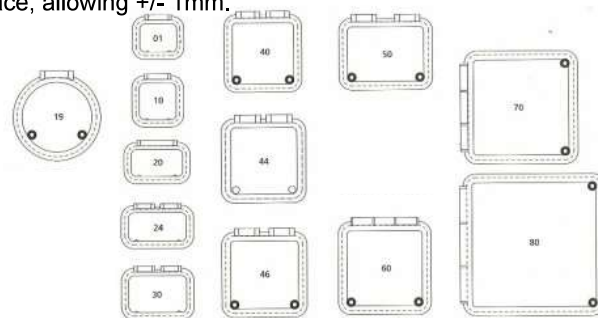




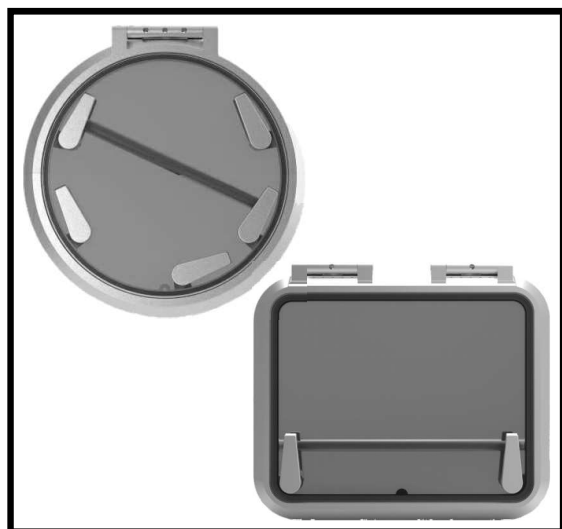
## Cristal Hatch

With a medium profile construction, the Cristal hatches combine stylish design and shapes with a sturdy one-piece lid, engineered from aluminium casting. We offer a wide range of sizes. Small hatches are especially suitable for ventilation purposes and larger models are designed to be used as foredeck hatches.

The lower frame is with a 12mm flange. Hatches are to be mounted on a flat surface, allowing +/- 1mm.



Size	Order Number	Cutout Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
O1	101737	263 x 213	308 x 269	53	1.6
10	101751	263 x 263	308 x 319	53	1.8
19	106410	476	520		5.8
20	121130	349 x 204	394 x 260	53	1.6
23	101767	385 x 211	432 x 269	53	1.6
24	101775	387 x 263	432 x 319	53	2.3
30	101807	464 x 334	509 x 402	53	5
40	101789	423 x 423	483 x 463	53	3
44	116962	444 x 444	587 x 510	53	4.7
46	121131	464 x 464	532 x 509	53	6.5
50	115753	514 x 384	559 x 452	53	6.2
60	101926	510 x 510	579 x 555	53	8.1
70	101991	630 x 630	699 x 675	53	12
80	102025	802 x 802	865 x 846	53	24



## Escape Hatch

Escape hatches are used on multihulls and can be made to open either from the inside or outside in event of a capsizing. They feature aluminium cast handles and are supplied with a locking bar preventing access when moored. Using them when sailing is strictly forbidden. Following models are approved for all boat categories, as per the ISO/FIDS 122162002 Internationals Standards.

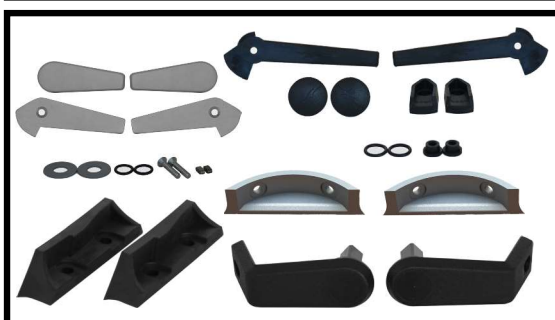
Size	Order Number	Clearing dimensions (mm)	Cut out Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
44C	105096	450	450	520	52	5.8
49.42	104971	488 x 390	512 x 413	559 x 485	52	7.2



## Flush Hatch

After pioneering the flush hatch technology on Maricha IV, Goïot is proud to introduce a range of standard flush hatches designed for production series boats. The flush models stem from the Opal range with the same sturdy aluminium frame, telescopic stays and ergonomic handles. A real innovative breakthrough, the flush hatches feature a lid with no metal structure : thanks to a thicker acrylic lid (15mm) and state-of-the-art stainless steel hinges, the lid consists of the mere acrylic pane which definitely brings an additional touch of elegance to the deck.

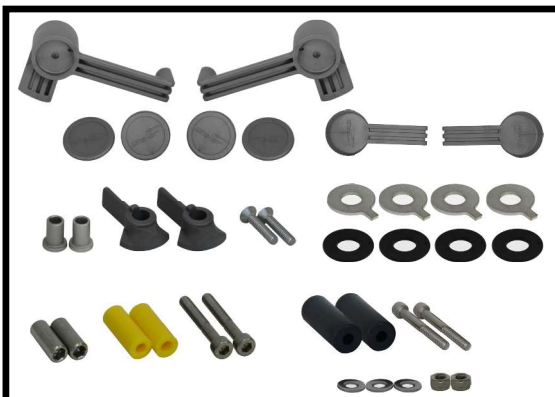
Size	Order Number	Cutout Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
10	115518	260 x 260	330 x 330	42.5	5.6
44	115519	442 x 442	512 x 512	42.5	7.6
60	115520	507 x 507	577 x 577	42.5	9



## Spare Parts

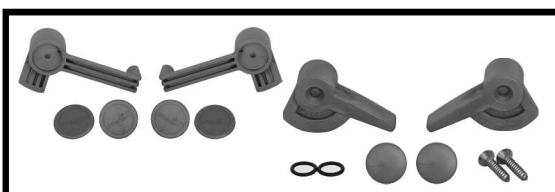
### Tradition Hatch

95661	Gasket for 34.20, 45.32, 50.37, 50.50, 62.62
95665	Gasket for 50.50.2, 62.62.2, 80.80
101691	Pair of Inside right/left handles
101686	Pair of Outside handles
101711	Aluminum latch for 45.32, 50.37, 50.50, 62.62 & 80.80
93476	Plastic Latch for 34.20
93477	Pair of inside & outside aluminium handles



### Cristal Hatch

95658	Gasket for 24.19, 24.24, 35.21, 36.19, 36.24, 49.19
95659	Gasket for 42.42, 44.31, 44C, 44.44, 49.36, 49.49, 61.49, 61.61, 79.79
95330	Pair of small inside handles
101704	Pair of large inside handles
101687	Pair of outside handles
105743	Friction rings (x4)
101706	Friction set for 24.19, 24.24, 35.21, 36.14, 36.19, 36.24, 49.49 & 49.24
101708	Friction set for 42.42, 44.31, 44.44, 44C & 49.36
105020	Pair of inside & outside aluminium handles



### Integration Hatch

95666	Gasket for 20.10 & 26.13, per metre
95667	Gasket for other sizes, per metre
101713	Pair of small inside handles
101704	Pair of large handles for 46.33



### Evolution Hatch

95663	Gasket per metre
95330	Pair of small inside handles
101690	Pair of large inside handles

Southern Seas Marine has many spare parts like :

- Acrylic
- Gasket
- Handles
- Hinges
- Stays

So give us a call today with :

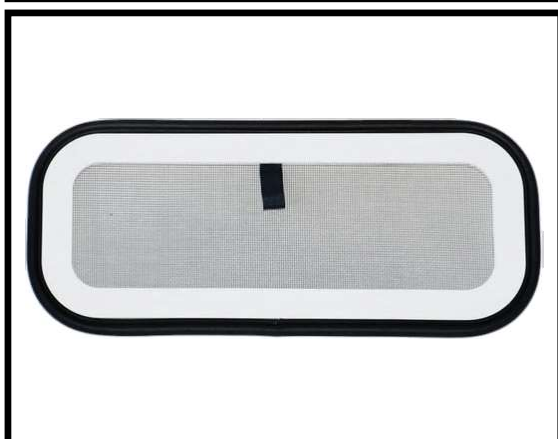
- The cut out size of the hatch
- Type of hatch (if possible)
- Colour of the handles
- Part you need



## Shade & Mosquito Screen

- Folding structure, Accordion-type

For Opal & Cristal Hatches	
Size	Order Number
10	115175
20	115176
22	115449
30	115177
40	115178
44	115179
50	115447
54	115181
60	115182
65 & 70	115183



For Integration hatches	
Size	Order Number
20.10	101496
25.25	101520
26.13	101525
27C	101535
33E	101491
33.14	101544
41.17	101588

## Interior Trim Ring

- Colour : RAL 9016 White



For Cristal & Opal Hatches	
Size	Order Number
00	115353
03	115354
10	115306
18	115440
20	115355
22	115441
30	115356
40	115357
44	106086
50	115439
54	115358
60	115359
70	115392

Areas on board as per 94/25 EC standard of 16 June 1996:

- Zone I : hull above waterline
- Zone II : deck, coachroof, cockpit and transom
- Zone IIb : hull sections outside area I
- Zone III : superstructure, deck and cockpit
- Zone IV : cockpit and deck, rear faces of superstructure

## Portlights

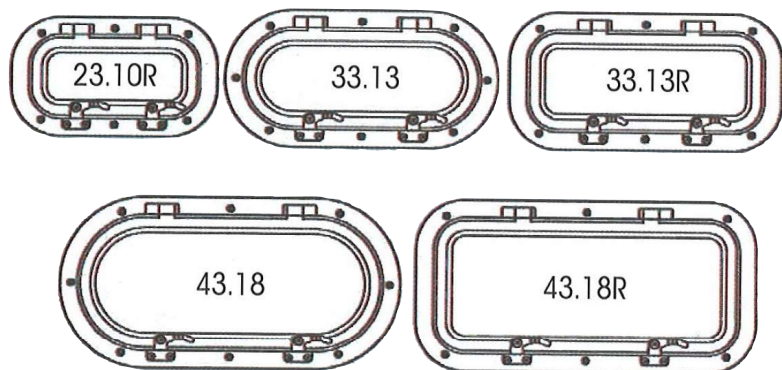
Range	Features	Type of navigation	Lid	Lower Frame	Assembly	Finishing	CE areas for location on board
Cristal	Medium profile, heavy duty, outwards opening	Blue water	Casting	Casting	Frame and backplate mounted from inside	Satin, colour anodised	IIb, III & IV I : Fixed Opal Only (33-13R, 33-13 & 23-10R) hull sides, roof and cockpit areas
Opal	Low profile, outwards opening through stays	Blue water	Extrusion	Extrusion	Frame and backplate mounted from inside	Satin, Shiny or powder coated	II III & IV Deck, roof and cockpit areas
Evolution	High profile, heavy duty, outwards opening	Blue water	Extrusion	Extrusion	Frame and backplate mounted from inside	Satin, powder coated	II III & IV I : Fixed Evolution only. All categories



### Cristal Portlight

With a one-piece aluminium construction, this range is especially designed for in-hull installation. Engineered in casting, Cristal portlights are sturdy and extremely durable. The outside frame is designed to allow water draining up to 40° when opening the portlight.

Available in two versions for a minimum hull thickness of 5mm to a maximum of 24mm. Portlights should be mounted on a flat surface, allowing +/- 1mm. They are supplied with blue acrylic and interior trim made from extruded aluminium as standard.



Size	Cut out size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)	Hull thickness 16-24mm	Hull thickness 5-15mm	CE
23.10R	281 x 251	303 x 173	62	1.8	115796	115293	I, IIb, III, IV
33.13	380 x 180	402 x 202	90	2.4	121132	121134	I, IIb, III, IV
33.13R	380 x 180	402 x 202	62	2.5	99521	115457	I, IIb, III, IV
43.18	480 x 230	502 x 252	115	3	121133	121135	IIb, III, IV
43.18R	480 x 230	502 x 252	62	3.5	115762	121136	IIb, III, IV

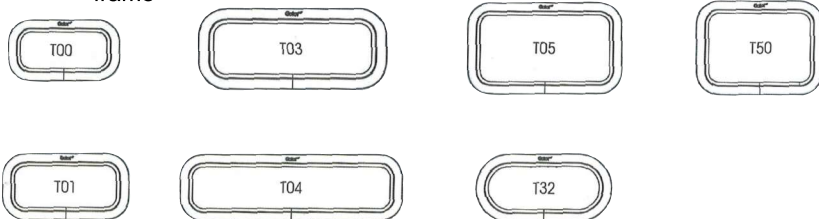




## Opal Portlight

Designed to match the Opal Hatches, Opal portlights also feature some unique benefits:

- Perfect watertightness with a one-piece thick frame section and double contact seal system
- Acrylic thickness : 10mm
- One model only accepts an extensive range of bulkhead or hull thickness :5 to 33mm
- Optimum visibility thanks to the position of the handle in the frame

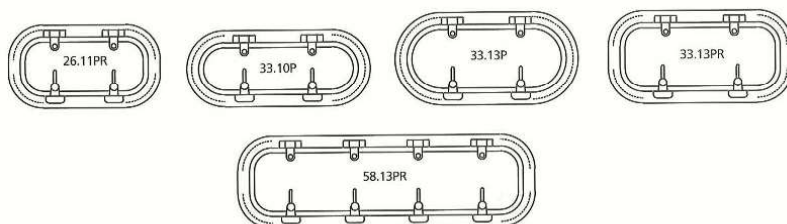


Size	Shape	Order Number	Cutout Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
00	Rectangular	116409	303 x 156	325 x 178	56	1.8
01	Rectangular	115707	347 x 171	369 x 193	56	2
03	Rectangular	117996	429 x 171	451 x 193	56	2.7
04	Rectangular	115271	627 x 171	649 x 193	56	3.8
05	Rectangular	116411	429 x 244	451 x 266	56	3.4
32	Oval	117998	375 x 175	397 x 197	87.5	2
50	Rectangular	116640	347 x 251	369 x 273	56	3



## Evolution Portlights

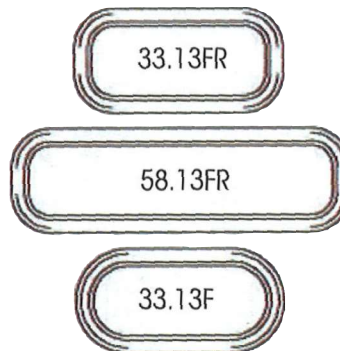
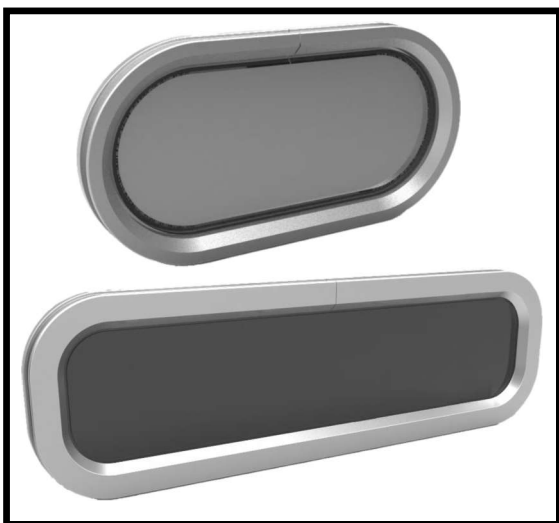
The Evolution ports have lightweight structure and are ideally suited for the cockpit, the roof or superstructures. The acrylic lid is closing on an extruded profile frame. The 40° angled outside frame is designed to facilitate water draining. Evolution portlights are available in two versions for a minimum hull thickness of 5mm to a maximum of 26mm.



Size	Hull thickness 5 to 15mm	Hull thickness 16 to 26mm	Cut out Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
26.11R	99559	99567	310 x 160	330 x 180	65	1.7
33.10	99572	99577	380 x 145	400 x 165	72.5	1.7
33.13	99582	99590	380 x 180	400 x 200	90	2.1
33.13R	99597	99601	380 x 180	400 x 200	65	2.2
58.13R	105949	99621	630 x 180	650 x 200	65	3.6

## Evolution Fixed Portlights

Fixed Evolution portlights come in aluminium finish, natural colour. Available in four versions to accommodate virtually any hull thickness.



Size	4 to 12mm	12 to 20mm	20 to 28mm	Cut Out Size (mm)	Overall Size (mm)	Radius Corner (mm)	Weight (kg)
33.13F	99624	99625	99627	380 x 180	400 x 200	90	2
33.13FR	99629	99630	99635	380 x 180	404 x 204	62	2.1
58.13FR	99641	99642	99644	630 x 180	654 x 204	62	3.3

## Quick Closing Vent

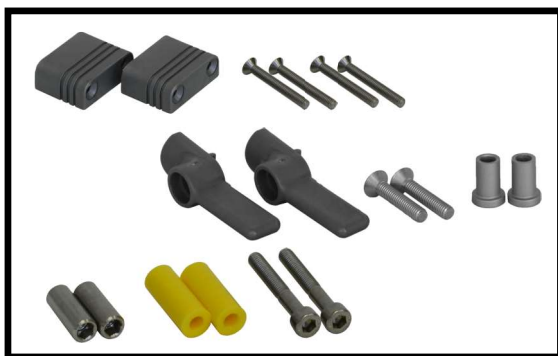
A totally re-designed vent, with an aluminium body for ultimate resistance and a user-friendly opening/shut off device.

- Hull thickness : 5 to 17mm
- Same cutout diameter as other Goïot vents so that they can be interchangeable.
- Mounting is operated from inside allowing blind fastening from outside
- A rubber seal provides watertightness and eliminates the need for additional sealant. Quick assembly combined with a neat finish.
- Opening/shut off system in ABS system equipped with pop-out knob ON/OFF, for swift and easy operation

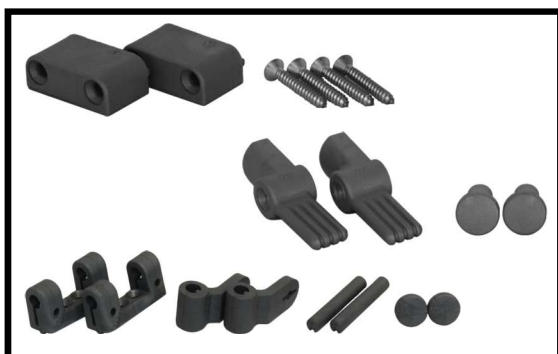


Order #	Overall	Drill	Height	Weight
105033	173mm	75mm	45mm	1kg

## Portlight Spare Parts



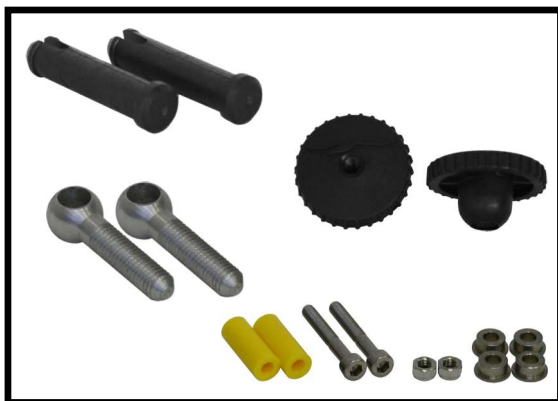
<i>Cristal Range</i>	
<b>Order Number</b>	<b>Description</b>
95663	Gasket per metre
95331	Latches
95332	Handle
101705	Friction hinge set



<i>Evolution Range</i>	
<b>Order Number</b>	<b>Description</b>
95664	Gasket per metre
95335	Latch
95336	Handle
99488	Hinge kit



<i>Opal Range</i>	
<b>Order Number</b>	<b>Description</b>
115508	Gasket per metre
115517	Handle

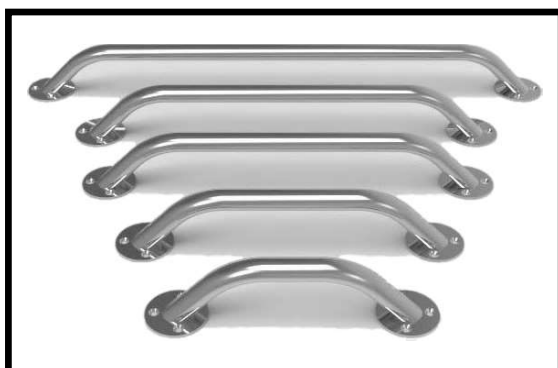


<i>Tradition Range</i>	
<b>Order Number</b>	<b>Description</b>
95667	Gasket per metre
95343	Hinge axle
95344	Tightening knob
99468	Tightening knob screw
105715	Friction hinge set



## Flyscreens

Cristal Ports		Opal Ports		Evolution Ports	
<b>Size</b>	<b>Part #</b>	<b>Size</b>	<b>Part #</b>	<b>Size</b>	<b>Part #</b>
23.10R	99489	01	106620	26.11PR	99568
33.13	99509	03	115854	33.10P	99578
33.13R	99511	04	106621	33.13P	99509
43.18	99546	05	115848	33.13PR	99511
43.18R	99548	32	106618	58.13PR	99622
		50	106619		



## Stainless Steel Handrails

Stainless steel tube 26 x 20mm with a neat oval shape for excellent prehension. Supplied as standard with fastening plate. Blind mounting is possible by bolting the hand rail through the deck, without fastening plate (hardware not supplied)

Order Number	Hand rail hole spacing
105045	200mm
105046	280mm
105047	380mm
105048	430mm
105049	585mm



## Handrails in Leather Sheath

Stainless steel tube 26 x 20mm with a neat oval shape for excellent prehension. Supplied as standard with fastening plate. Blind mounting is possible by bolting the hand rail through the deck, without fastening plate (hardware not supplied)

Order Number	Hand rail hole spacing
106859	280mm
106860	380mm
106861	430mm
106862	585mm



## Custom Handrails

Goïot develops and produces custom handrails upon request : round-shape, oval-shape or in leather sheath (with a large selection of colours).

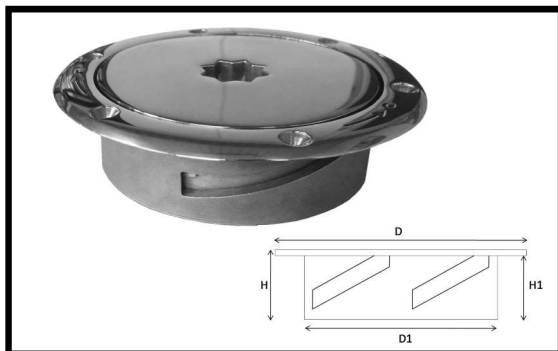
Please contact us.



## Polished Stainless Steel Rub Strakes

Stylish guards protecting against chafe from caprails and gunwales.

Order Number	Length	Hole spacing
105041	203mm	124mm
105042	304mm	115mm
105043	457mm	118mm
105044	700mm	133mm



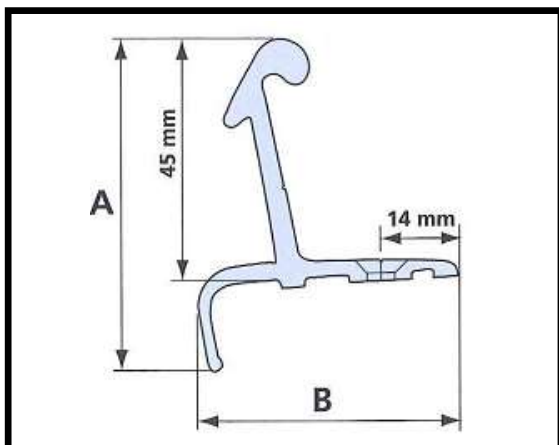
## Deck Plate to Access Emergency Tiller

- Stainless Steel deck plate with quick twist cover (1/8 twist).
- Gives easy access to the shaft in order to set up an emergency tiller system.

	Measurements
D	132mm
H	34mm
D1	100mm
H1	30mm

Order Number	Description
106608	Deck plate





## 808 Toe Rail

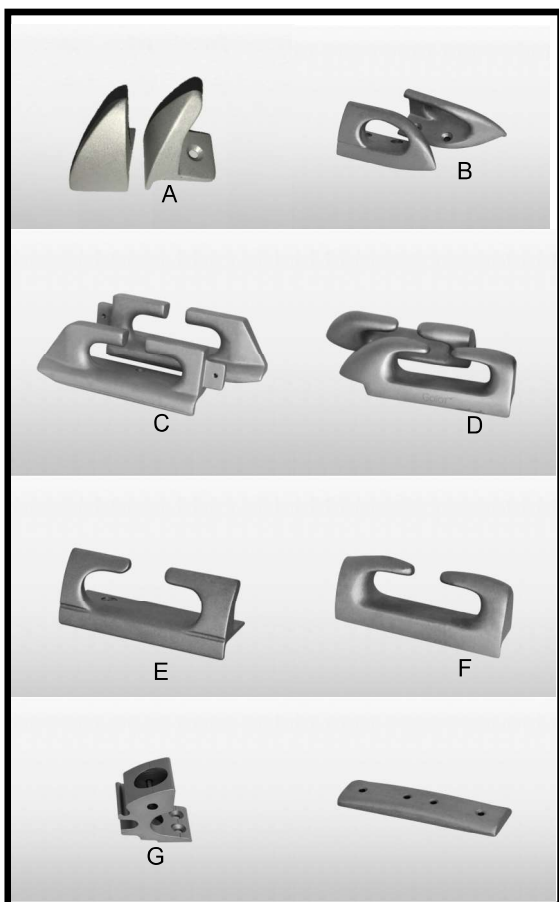
Designed to cover the deck-to-hull assembly, Goiot toe rails are equally suitable for wood or metal construction.

Anodised aluminium in natural colour, supplied in 6 metre lengths.

The angled and rounded shape offers a stylish and safe design. Drilled for stainless steel flat clotted screws 6mm.

The toe rail construction allows for teak boards to be added as decoration. Some accessories are designed for boats over 35 foot.

Toe Rail	Order Number	Length	A	B	Hole spacing	Weight
808	97818	6 metres	60mm	47mm	200mm	6kg



## 808 Toe Rail Accessories

A - Set of Port-starboard short end fittings

B - Set of Port-starboard fairleads end fittings

C - Set of Port-starboard fairleads

D - Set of Port-starboard fairleads (boats > 35ft)

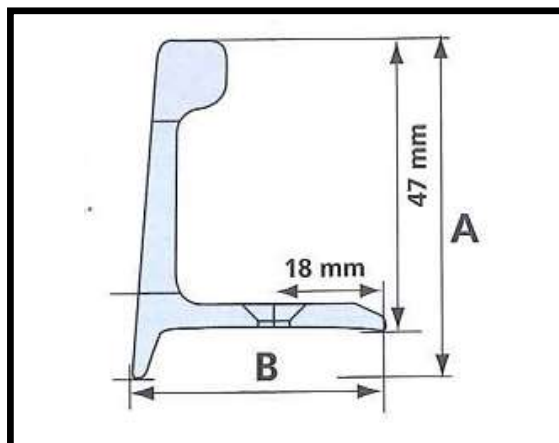
E - Middle fairleads

F - Middle fairleads (boats > 35ft)

G - Teak Board inserts

H - Aluminium Stanchion base 25mm

	Order Number	Length	A	B	Hole spacing	Weight
A	97793	175mm	60mm	47mm	—	50g
B	97797	105mm	60mm	47mm	35mm	130g
C	97795	175mm	60mm	47mm	85mm	215g
D	97800	230mm	70mm	50mm	155mm	635g
E	105601	135mm	60mm	47mm	85mm	160g
F	97799	180mm	60mm	50mm	155mm	520g
G	97796	46mm	70mm	61mm	—	140g
Assembly Connector	97798	120mm	33mm	90mm	—	95g



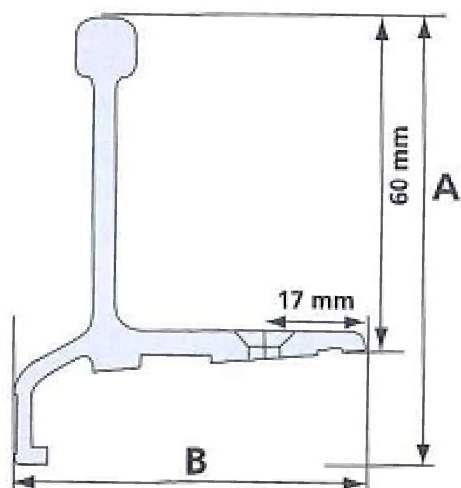
## 811 Toe Rail

Slightly angled profile and flat surface for a stylish line. Accessories in cast aluminium come with a smooth finish and match the toe rail perfectly. Rectangular pitch of toe rail is 70mm long and 155m apart.

Description	Order	Length	A	B	Hole	Weight
811 Toe rail	97824	6m	55mm	44mm	112m m	6kg
End Fittings	97801	70mm	58mm	50mm	—	75g
Fairlead end fittings	97804	180mm	52mm	45mm	61mm	305g
Middle fairleads	97767	150mm	55mm	45mm	59mm	250g
Assembly connector	105643	15mm	58mm	47mm	—	36g
Aluminium stanchion base 27mm w/ plastic	97436	80mm	77mm	85mm	57mm	220g

## 823 Toe rail

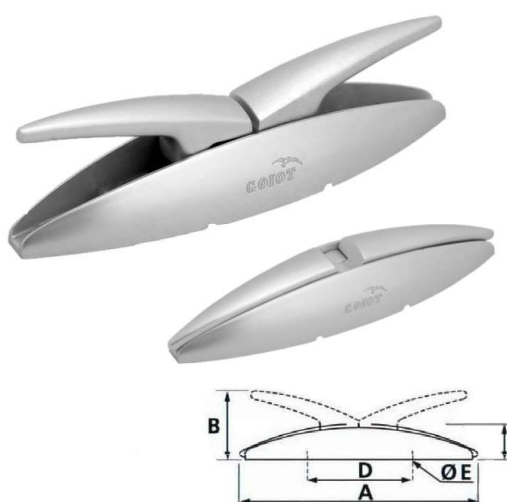
The 823 model provides a solution to a variety of installations whilst having a straight traditional profile. Accessories in cast aluminium with a smooth finish.



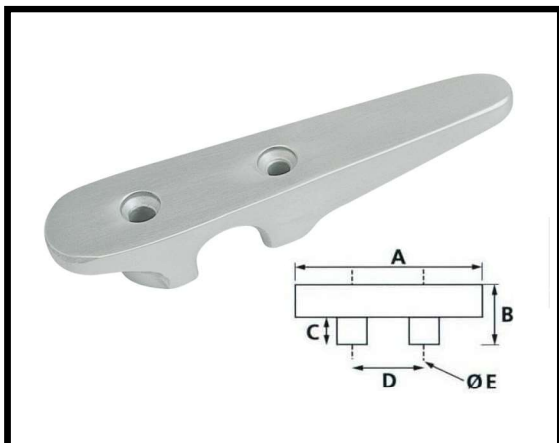
Description	Order	Length	A	B	Hole	Weight
823 Toe rail	97841	6m	67mm	59mm	112mm	9.6kg
End Fittings	97809	65mm	80mm	67mm	—	150g
Fairlead end fittings	97811	200mm	78mm	61mm	75mm	470g
Middle fairleads	97810	165mm	78mm	61mm	—	430g
Assembly connector	97737	20mm	79mm	67mm	—	55g
Aluminium stanchion base 27mm w/ plastic	97437	77mm	72mm	40mm	60mm	220g
Aluminium stanchion base 30mm	97438	76mm	70mm	40mm	60mm	220g

## Aluminium Folding Cleat

Rounded and stylish lines bring an extra touch of style on deck combined with increased safety.  
Deck Mount : no need for the cleat to be embedded in the deck.

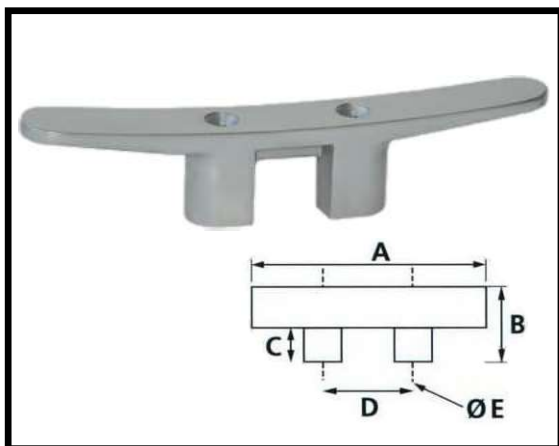


Order Number	Rope (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
103940	12	200	60	35	100	8
103941	14 - 16	260	80	40	130	10
103942	16 - 20	340	115	60	150	10



## Sheet Cleat

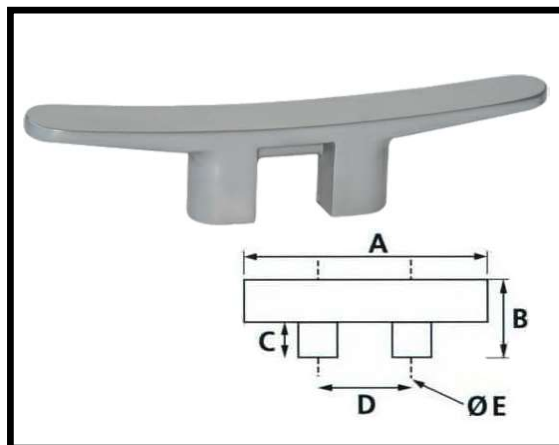
Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
103932	150	23	12	45	6
103933	180	30	16	45	8



## Mooring Cleat

Drilled Aluminium from above.

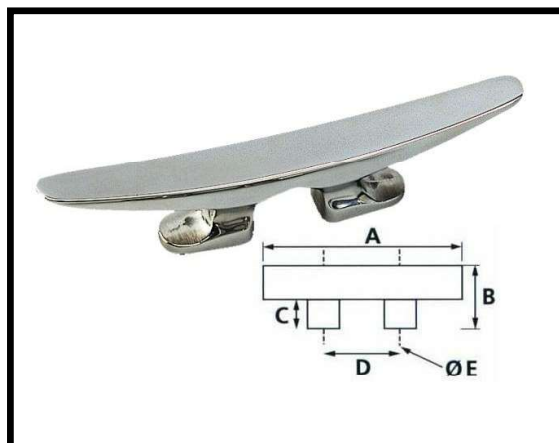
Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
103929	160	30	20	35	6
103930	200	45	30	50	8
103943	260	55	35	65	8
103944	330	60	40	80	10
103928	450	70	45	75	10



## Mooring Cleat

Threaded Aluminium from below.

Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
103897	160	30	20	35	6
103927	200	45	30	50	8
103898	260	55	35	65	8
103899	330	60	40	80	10
103900	450	70	45	75	10



## Mooring Cleat

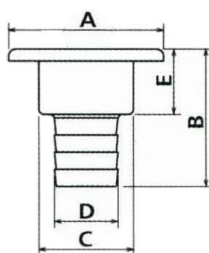
Threaded Stainless Steel from below.

Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
105178	240	50	45	55	11
105179	190	42	38	45	9
105180	135	31	28	32	7



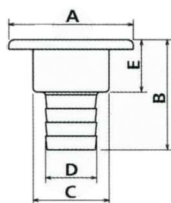
## Aluminium Deck Filler

Model	Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Water	93616	90	80	55	37	32
Waste	93204	90	80	55	37	32
Waste	93209	90	80	55		
Petrol	93205	90	80	55		
Diesel	93203	90	80	55		



## Fibreglass Deck Filler

Model	Order Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Water W/ Hose Stopper	100746	90	80	55	37	38
Water	105776	90	80	55	37	38
Waste	105778	90	80	55		
Petrol	105779	90	80	55		
Diesel	105777	90	80	55		



## Spares for Deck Fillers

Product	Order Number
Stainless Steel Key	115127
Stainless Steel Deck Filler Lobe Key	115128
Aluminium Deck Filler Cap	93207
Aluminium Deck Filler Cap for Lobe key	93208
Plastic Deck Filler Cap	100759
Plastic Deck Filler Cap for Lobe key	105782





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