

# ***Hyppro*** **MARINE**

**P R O D U C T C A T A L O G U E**



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# Hypro Marine - supplying and supporting the marine industry with world leading products

With over 40 years' experience specialising in boat control, Hypro Marine has grown to be one of the most respected marine steering specialists in the world.

Hypro Marine's core business has always been the design and manufacture of hydraulic and electronic steering for some of the most well-known and prestigious boat manufacturers in the world.



Our systems can be found in many craft worldwide including crew transfer vessels (CTVs), pilot boats, foiling and autonomous craft and many light commercial applications.

Hypro Marine have an experienced workshop team for the servicing and refit of our own OEM systems as well as being a Dometic Marine Seastar Authorised Hydraulic Service Centre.

Hypro Marine can supply steering systems for vessels requiring classification such as RINA, BV (Bureau Veritas) and Lloyds Register appraised. For vessels up to 100 Feet.



Image courtesy of Goodchild Marine



Image courtesy of Nordhavn



Image courtesy of Fleming Yachts



Image courtesy of Mainprize Marine

# HYPRO MARINE

Hypro Marine are also UK distributors for:

**DOMETIC**



Baystar, Seastar & Optimus Steering Systems, Dometic Jackplates & Trim Tabs

**GLENDINNING**



Cablemaster & Hosemaster

**Q-SPD**  
SURFACE DRIVES



Surface Drive: High Performance Marine Propulsion

**SAVIOR**



Performance Battery Holders

**SCHMITT**  
STEERING WHEELS



Steering Wheels

**shark**  
SEATING



Jockey Suspension Seats

**SIERRA**



Mechanical & Electrical Parts

**StingRay**  
HYDROFOILS



Hydrofoils

**ZIPWAKE**



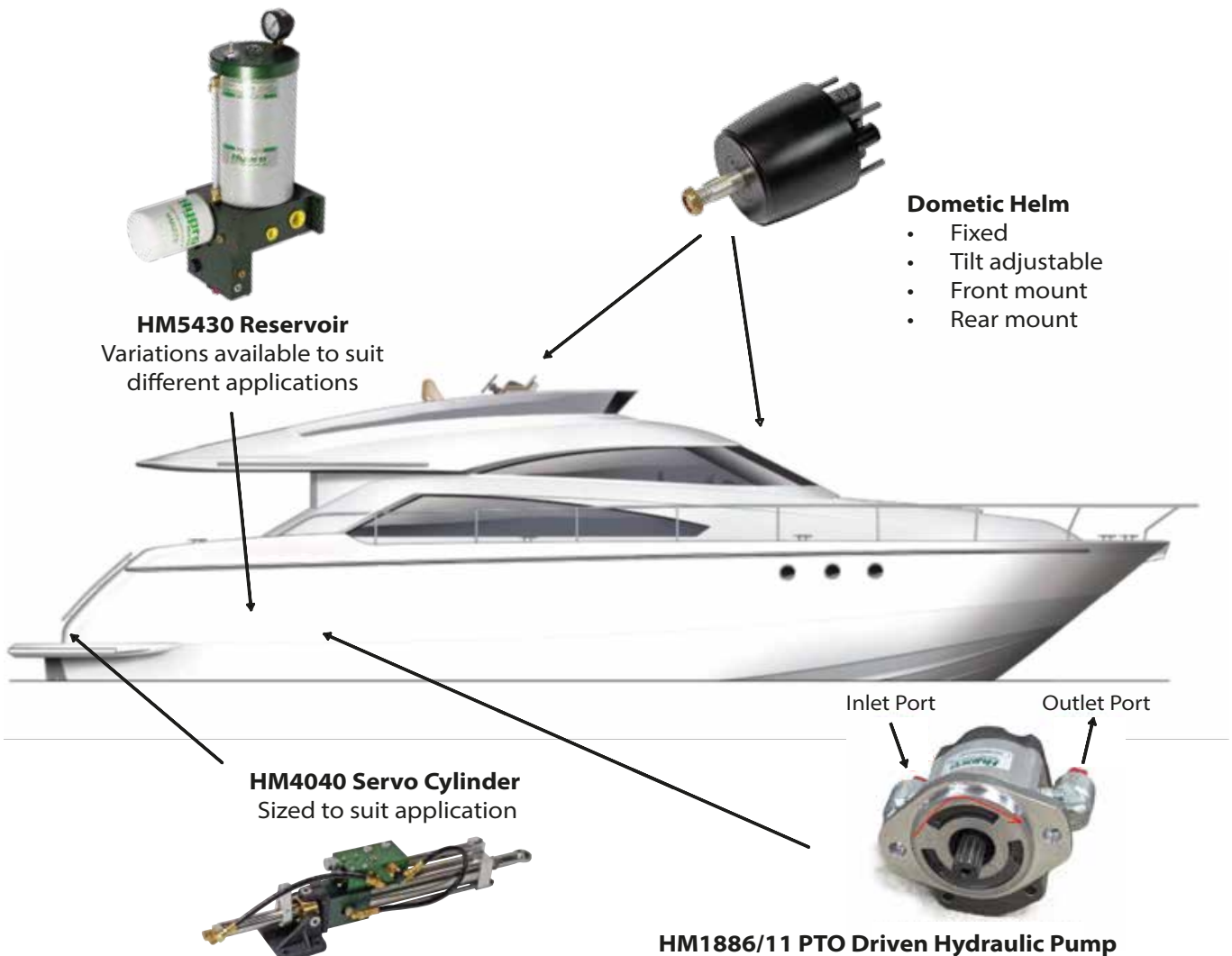
Auto Trim Control System

## **Engine Driven System**

Hypro Marine specialise in engine driven power steering systems. They supply these types of systems for motor yachts and commercial work boats up to 100ft.

### **Features & Advantages:**

- Power pumps can be fitted straight on to most popular engine/gear box PTO's
- Pumps can be specified to come fitted to engine prior to delivery
- Single or twin pump options
- Pressure and flow conditioning valve to suit, coupled to bulkhead mounted reservoir
- Optional autopilot control valve available as part of bulkhead reservoir
- Nominally 3-4 turns lock to lock highly responsive fingertip effort steering
- Automatically reverts to manual wheel steering if loss of power to pump
- Bulkhead mounted reservoir assemblies with integral filter and cooler, minimising individual component parts
- Multi station capability
- Helm pumps operate with pre charge pressure
- Helm pumps fully sealed not vented
- Able to meet torques in excess of 90,000 lb in @ 30°
- Tilt helm option available

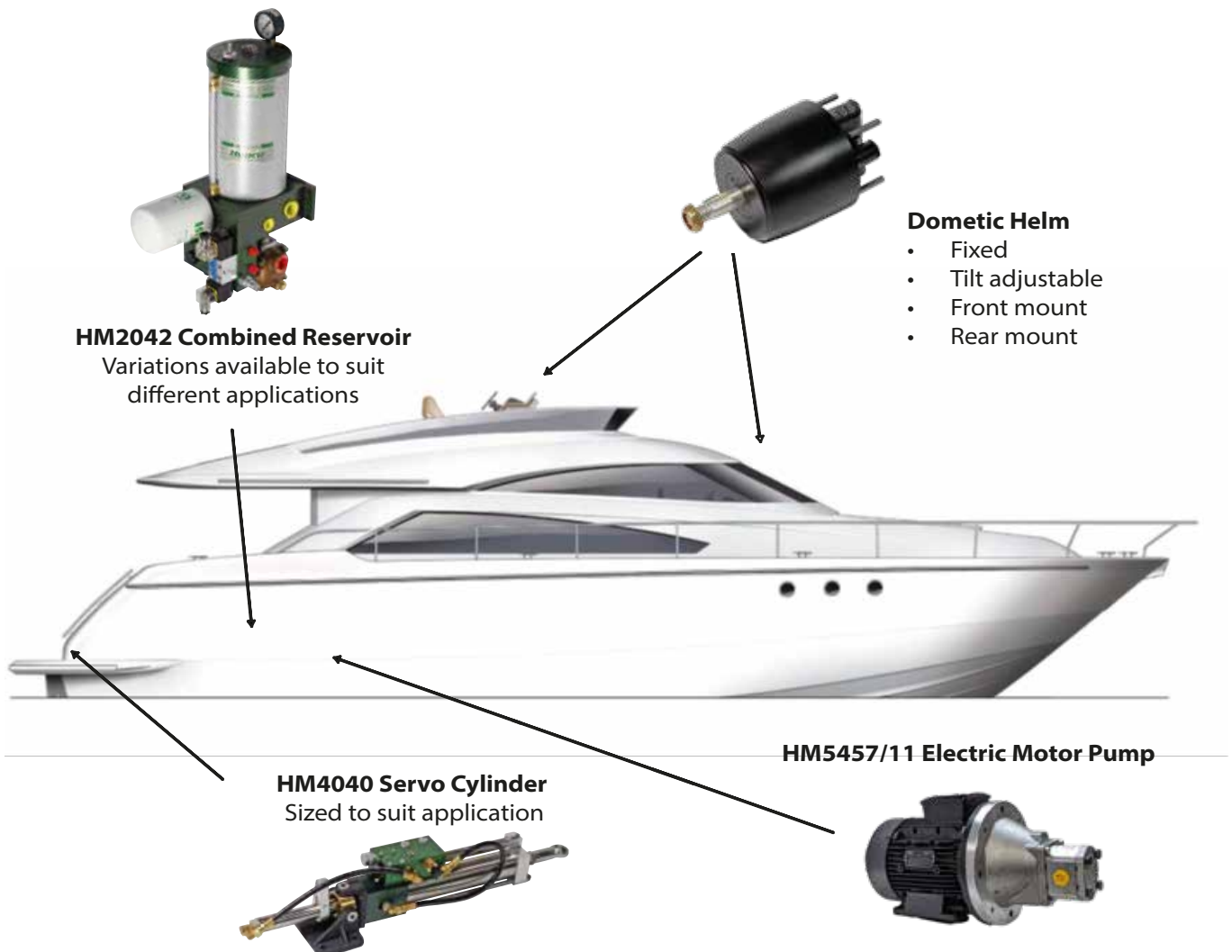


## **DC AC Electric Hydraulic Steering System**

Hypro Marine manufactures some of the lightest, most compact and responsive power steering systems available on the market. These include several of the world's most prestigious motor yacht builders as well as commercial vessel operators.

### **Features & Advantages:**

- Independent from the engine/gearbox
- Compact Power Packs
- Separate Power and Control Circuits
- Multi Station Capability
- Reverts to manual steering if power failure occurs
- Self bleeding power circuit
- Twin Motor Power Packs available
- Bleeding either manual or using a 12v automatic power purger
- Pressurised or non-pressurised option
- Tilt helm option available
- Able to meet torques in excess of 90,000 lb in @ 30°



An independent harness connects each helm to the electronic power unit.

## **Electronic Command Steering**

Hypro Marine's Electronic Command Steering (ECS) system is so forward-thinking that it has changed the way boat builders think about steering.

ECS is as responsive as hydraulics but without the time-consuming installation, resulting in significantly reduced commissioning times.

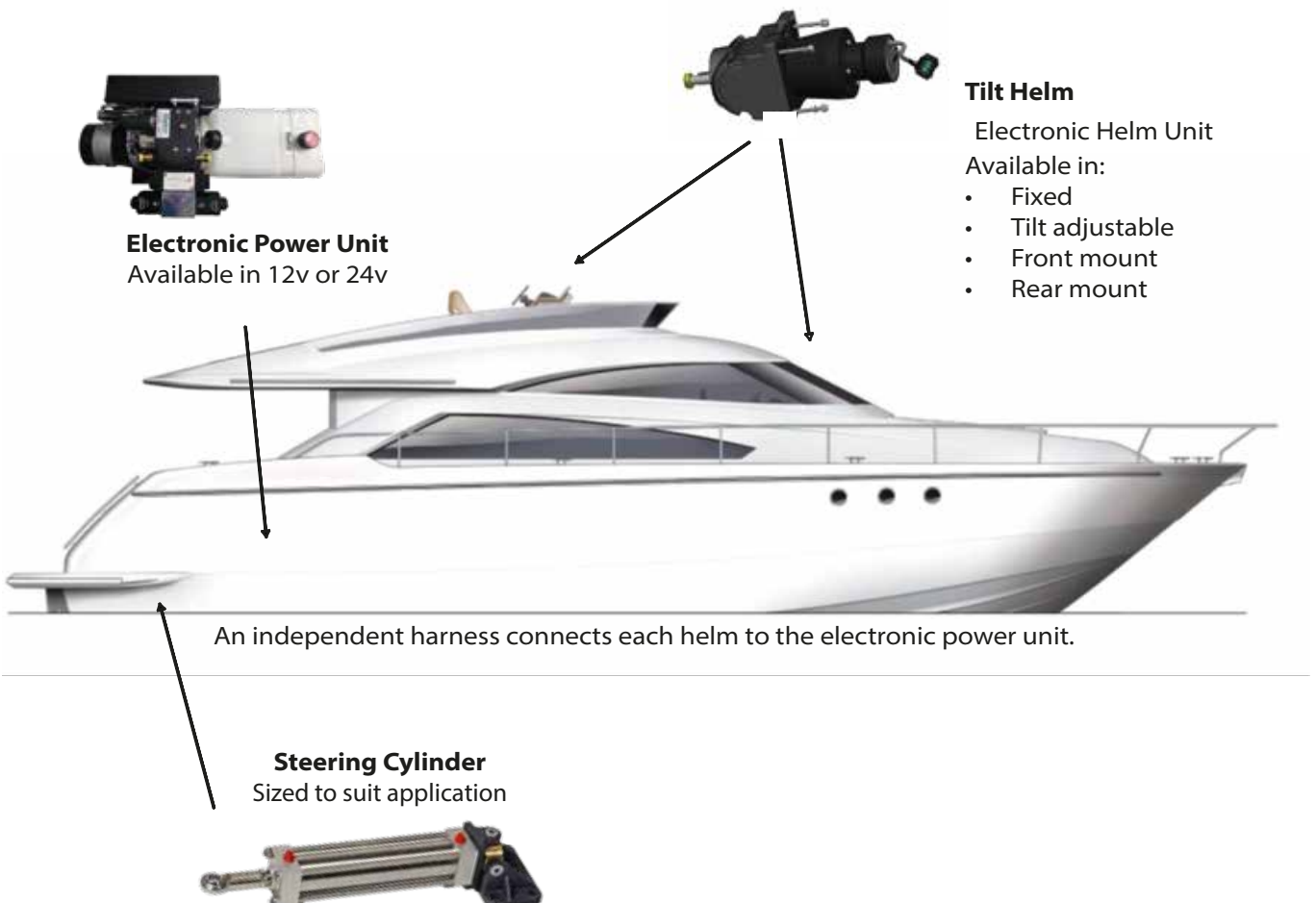
The system replaces traditional hydraulic with electronic helms which are connected to an electronic power unit via a single pre-made wiring harness with "Deutsch" multi pin connectors.

It has been designed for boats of 40ft and upwards in length but can be scaled up to in excess of 100ft.

Electronic Command Steering is now being specified into leading brands as standard.

## **Features & Advantages:**

- No hydraulic hoses to helm positions
- No oil to helm positions
- Simplified commissioning
- Single multi core harness with Deutsch plug connector
- 4 turns lock to lock @ 1 sec/rev response rate
- Positive lock at hard over position



# HYPRO MARINE | Hydraulic & ECS Steering Parts



**HM1272**  
Micro Filter



**HM2940**  
40mm bore  
Servo Power Cylinder



**HM4040**  
55mm bore  
Servo Power Cylinder



**HM4470**  
55mm bore  
Steering Cylinder



**HM5090**  
55mm bore  
Servo Power Cylinder



**HM5095**  
Power Pack Assembly



**HM5160**  
ECS Helm



**HM5290**  
ECS Power  
Pack Unit



**HM5430/100**  
Reservoir Assembly

# DOMETIC BAYSTAR | Hydraulic Steering

Dometic BayStar hydraulic steering is suited to single engine and low torque outboard applications. The systems are easy to install with the option of cut to length nylon tubing or SeaStar hose. Available in complete kits or as individual components.

## BAYSTAR STEERING | Kits

HK4300-4 BayStar Steering Kit - No Hoses

(Tubing/Hoses to be ordered separately)



## BAYSTAR STEERING | Components

HC4645-3	Compact Cylinder Compact
HC4647-3	Cylinder (Honda 115/130) Compact
HC4648-3	Cylinder (Short Plate) Compact
HC4658-3	Cylinder (Flipped Plate) BayStar
HC4670-3	Side Mount
HH4314-4	BayStar Helm 1.4 Cu.in
HH4315-4	BayStar Tilt Helm 1.4 Cu.in
HT4420H	BayStar Tubing x 2 20ft (6.1m)
HT4430H	BayStar Tubing x 2 30ft (9.14m)

## BAYSTAR STEERING | Accessories

HA5419	20. deg Mount
HA5430	Hydraulic Fluid 0.946ml (1 US Quart)
HA5438	Filler Kit
HA5440	Hydraulic Fluid 3.78ltr (1 US Gallon)
HA5476	BayStar Back Mount Kit (-3 Helms Only)
HA5476-4	BayStar Back Mount Kit (-4 Helms Only)
HO5090	Spacer Kit
HP6058	Support Rod Clip & Nut



# DOMETIC BAYSTAR | Aftercare

## BAYSTAR CYLINDER | Aftercare

- 225226 Shaft Seals (Current Helms)
- 600607 3/8" O/D 1/4" NPTF BayStar Helms - 45°
- HA5431 Vent Plug
- HS5147 Seal Kit - BayStar Old Style Helm
- HS5176 Seal Kit - SeaStar & BayStar HELMS (Current)
- HF6011 Orb 45 deg Elbow Kit
- HM3186 Helm Nut
- HP6032 Helm Service Kit (With Shaft Nut, Key, Shaft Seal & Plate)



## BAYSTAR HELM | Aftercare

- HA4640 BayStar Pivot Plate for HC4645-3
- HA4641 BayStar Pivot Plate for HC4647-3
- HA4642 BayStar Pivot Plate for HC4648-3
- HA4643 BayStar Pivot Plate for HC4658-3
- HA5820 Pivot Plate Bushing Kit
- HA5822 Pivot Plate Nut & Bolt Kit
- HF4202 BayStar Bleed Tee Kit NPT "H" Cylinders
- HF4203 Bleed Tees for -4ORB
- HP4600 Cylinder End Gland Kit for HC4645 (BayStar Compact)
- HP4601 KIT GLAND B/S COMPACT ORB
- HP5607 Seal Kit - BayStar old style CYL. - Port
- HP5608 Seal Kit - BayStar old style CYL. - Starboard



HC4645-3 compact cylinder is included in the BayStar steering kits. This cylinder can be converted to HC4658-3 by following instructions included in the product box. If your engine requires use of a cylinder other than HC4645-3 or HC4658-3, please refer to the chart on page 9 for the appropriate replacement pivot plate, which must be purchased separately.



**HA4640**  
Install to make HC4645-3



**HA4641**  
Install to make HC4647-3



**HA4642**  
Install to make HC4648-3



**HA4643**  
Install to make HC4658-3

# DOMETIC BAYSTAR | Application Guide

Manufacturer	Year	Model	Cylinder	Notes
Honda	1992–Date	30–50 HP 4-Stroke	HC4645-3	See note 2
	1996–Date	75–90 HP 4-Stroke	HC4645-3	
	2015–Date	100 HP 4-Stroke	HC4645-3	
	1998–2010	115–130 HP 4-Stroke	HC4647-3	
	2003–Date	135–150 HP 4-Stroke	HC4645-3	
	2010–Date	115 HP 4-Stroke	HC4645-3	
Johnson/Evinrude	1991–Date	40–150 HP inc. E-Tec	HC4645-3	See note 2
	1997–Date	115 HP Ficht	HC4658-3	See note 4
	2017–Date	75–150 HP Ficht	HC4645-3	See note 5
	1998–Date	40–140 HP 4-Stroke	HC4658-3	See note 1, 2, 4
Mercury/Mariner	1984–Date	75–150 HP	HC4645-3	See note 5
	1998–2007	40–60 HP 2-Stroke	HC4648-3	See note 1, 2
	2008–Date	40 HP 4-Stroke	HC5348-3	See note 1
	2008–Date	60 HP 4-Stroke	HC4645-3	See note 2
Selva	2000–Date	25–70 HP 4-Stroke	HC4648-3	See note 1, 2
	2000–Date	90–150 HP 4-Stroke	HC4645-3	See note 5
	2011–2013	115 HP 4-Stroke	HC4658-3	
Suzuki	1986–Date	150 HP 2-Stroke	HC4645-3	See note 5
	1987–2002	115–140 HP 2-Stroke	HC4645-3	See note 1
	1990–2000	90–100 HP 2-Stroke	HC4645-3	
	1998–Date	40–70 HP 4-Stroke	HC4645-3	See note 1, 2
	2001–Date	90–140 HP 4-Stroke	HC4658-3	See note 1, 4
Tohatsu	1990–Date	40–140 HP 2-Stroke	HC4645-3	See note 2
	2014–Date	60–150 HP 4-Stroke	HC4645-3	
	2023–Date	75–150 HP 4-Stroke	HC4645-3	*
Yamaha	1998–Date	40–50 HP 2-Stroke	HC4645-3	See note 2
	1998–Date	60 HP 2-Stroke	HC4645-3	See note 3
	1986–Date	70–90 HP 2-Stroke	HC4645-3	See note 1
	1997–Date	80–150 HP 4-Stroke	HC4645-3	See note 5
	2000–Date	25–70 HP 4-Stroke	HC4648-3	See note 1, 2, 6
	2011–2014	90–115 HP inc. A Series	HC4658-3	
	2014–Date	90–115 HP inc. B Series	HC4645-3	

(Subject to change)

## Model Installation Notes:

\*Must use Tohatsu tiller bolt 3E0-84917-0

1. Requires Spacer kit part # HO5090
2. Engine clamp brackets must be cut or ground, and the engine through bolted onto the transom, or interference will occur, restricting engine trim and tilt.
3. Steering hook Yamaha Part # 63D-48511-00-4D must be installed
4. Cylinder HC4645-3 may be used in these applications. The pivot plate will need to be flipped before installation. Instructions provided with Owner's Manual.
5. High performance 150HP engines and any engine using a 4-3/4" gear-case such as Command Thrust MUST use SeaStar.
6. May require Yamaha hook 688-48511-12-00 and M10 x 1.25 x 30 bolts.

# DOMETIC SEASTAR | Steering

SeaStar Steering (Front Mount Pivot Cylinder) System suits most applications and offers many models, the front mount being the most common. The world's most popular outboard hydraulic system offers smooth, super-efficient steering for today's high performance hulls with single or multiple outboards up to 600 HP combined. Hull design, speed and usage of the boat must be considered to determine the best possible application. Engines of today have become larger, heavier and more powerful than in the past, it is therefore advised to refer to the selection guide on page 11 for further information.

## Applications:

- General purpose system.
- Single or multiple engine capability.
- Typical applications include centre console fishboats and cruisers.

## Steering Features:

- Independent engine tilt for twin engine installation.
- 5 turns lock to lock steering response.
- Patented steering locking valves.
- Low friction hydraulic steering system.
- Standard 3/4" tapered steering shaft.



Use SeaStar Steering Fluid ONLY with SeaStar hydraulic steering systems

## SEASTAR HELMS

HH5217-4	Commercial 1.7 Cubic Inch Helm SS Shaft
HH5224-4	Commercial 2.4 Cubic Inch Helm SS Shaft
HH5261-4	Rear Mount 1.7 Cubic Inch Helm Pump
HH5263-4	Rear Mount 2.0 Cubic Inch Helm Pump
HH5271-4	Front Mount 1.7 Cubic Inch Helm Pump
HH5272-4	Front Mount 2.4 Cubic Inch Helm Pump
HH5273-4	Front Mount 2.0 Cubic Inch Helm Pump
HH5285-4	Front Mount 3.0 Cubic Inch Helm Pump
HH6145-4	Sport Tilt 2.0 Cubic Inch Helm Pump
HH6192-4	Sport Tilt 2.4 Cubic Inch Helm Pump
HH6541-4	Traditional Tilt 1.7 Cubic Inch Helm Pump
HH6542-4	Traditional Tilt 2.4 Cubic Inch Helm Pump
HH6543-4	Traditional Tilt 2.0 Cubic Inch Helm Pump

## SEASTAR CYLINDERS

HC5343	O/B Small Catamaran Cylinder
HC5345-3	O/B Front Mount Cylinder (Standard plate)
HC5347-3	O/B Front Mount Cylinder (Honda 115/130)
HC5348-3	O/B Front Mount Cylinder (Short plate)
HC5358-3	O/B Front Mount Cylinder (Flipped plate)
HC5370-3	O/B Side Mount Cylinder
HC5374	O/B Large Catamaran Cylinder
HC5380-3	O/B Splashwell Mount Cylinder

## SEASTAR ACCESSORIES

HA5418	SeaStar Back Mount Kit - Square Bezel
HA5419	20 deg. Mount
HA5430	SeaStar Hydraulic Oil - 0.946Ltr
HA5438	Filler Kit
HA5440	SeaStar Hydraulic Oil - 3.78Ltr
HA5478	SeaStar Back Mount Kit - Round Bezel (-3 Helms Only)
HA5478-4	SeaStar Back Mount Kit - Round Bezel (-4 Helms Only)
HA5822	High Strength Tiller Bolt
HF5502	Dual Station Kit
HM3563	Hydraulic Oil - 20Ltr
HO5090	Spacer Kit

# DOMETIC SEASTAR | Application Guide

Manufacturer	Year	Model	Cylinder	Notes
Cox Marine	2022-Date	300 HP Diesel	HC5358-3	
Honda	1996-Date	60-90 HP 4-Stroke	HC5345-3	
	1998-2009	115-130 HP 4-Stroke	HC5347-3	
	1998-Date	30-50 HP 4-Stroke	HC5345-3	See note 1
	2001-Date	150 HP 4-Stroke	HC5345-3	See note 3
	2001-Date	200-250 4-Stroke	HC5445-3	
	2003-Date	135 HP 4-Stroke	HC5345-3	
	2011-Date	115 HP 4-Stroke	HC5345-3	
	2015-Date	100 HP 4-Stroke	HC5345-3	
Johnson/Evinrude	1991-Date	40-300 HP 2-Stroke	HC5345-3	Inc. Etech engines
	1997-Date	75-3-- HP Ficht	HC5345-3	
	1998-Date	40-140 HP 4-Stroke	HC5358-3	See note 1
	2000-2003	115 HP Ficht	HC5358-3	See note 1
	2002-Date	200-225 HP 4-Stroke	HC5345-3	
	2007-Date	3.3L V6 200-250 HP	HC5345-3	Inc. H.O. models
Mercury	1989-Date	75-300 HP 2-Stroke	HC5345-3	
	1998-2007	30-60 HP 4-Stroke	HC5348-3	See note 1
	2008-Date	60 HP 4-Stroke	HC5345-3	
	2004-Date	115-300 HP XS	HC5345-3	
	2003-Date	150-200 HP Verado	HC5345-3	
	2017-Date	175-225 HP 3.4L V6 4-Stroke	HC5345-3	See note 2
	2018-Date	250-300 HP 4.6L V8 4-Stroke	HC5345-3	See note 2
Oxe	2017-Date	200 HP Diesel I4 2.4L	HC5345-3	
	2020-Date	300 HP Diesel	HC5345-3	
Selva	2000-2013	90-115 HP 4-Stroke	HC5348-3	
	2014-Date	115 HP 4-Stroke	HC5345-3	
	2000-Date	150 HP 4-Stroke	HC5345-3	
	2007-Date	200-300 HP 4.2L V6	HC5345-3	
Suzuki	1986-2000	100 HP 2-Stroke	HC5345-3	
	1998-Date	40-140 HP 4-Stroke inc. A Series	HC5358-3	See note 1
	1986-2002	115-40 HP 2-Stroke	HC5345-3	NOT 1996
	2020-Date	115-140 HP B Series	HC5358-3	
	1986-2013	150-225 HP 2 and 4-Stroke	HC5345-3	
	2004-Date	200-300 HP 3.6 4.0L V6	HC5358-3	
	2013-Date	150-200 HP 4 Cylinder	HC5345-3	
	2017-Date	300-350 HP Duoprop 4.4L	HC5358-3	See note 4
Tohatsu	1990-Date	40-140 HP 2-Stroke	HC5345-3	
	2014-Date	60-150 HP 4-Stroke	HC5345-3	
	2014-Date	200-250 HP 4-Stroke	HC5445-3	
Yamaha	1990-2003	40-90 HP 2-Stroke	HC5345-3	See note 1
	1986-Date	100-300 HP 2-Stroke	HC5345-3	
	1997-Date	80-250 HP 4-Stroke	HC5345-3	
	2000-Date	150-300 HPDI	HC5345-3	
	2003-Date	25-70 HP 4-Stroke	HC5348-3	See note 1
	2007-Date	200-300 HP 4.2L V6 4-Stroke	HC5345-3	
	2007-Date	300-350 HP 5.3V8	HC5345-3	See note 3
	2011-2014	90-115 HP inc. A Series	HC5358-3	
	2012-Date	150-200 HP 2.8L 4 Cylinder	HC5345-3	
	2014-Date	90-115 HP inc. B Series	HC5345-3	

## Model Installation Notes:

1. Requires Spacer Kit HO5090
2. Pro XS MUST use HC6345-3 cylinder
3. Optional cylinder part HC5358-3. Slight interference may occur when using the HC5358-3, with engine in the full tilt position
4. MUST use PA1200-3HP. MUST use HA5482 EPS Oil (Subject to change)

# DOMETIC SEASTAR | Tie Bar Application Guide

## SEASTAR TIE BARS | Aftercare

HO5009 Tie Bar - Side Mount Cylinder

HO6001 Tie Bar - Single Pivot Cylinder use with HC5345

HO6002 Tie Bar – Twin Pivot Cylinder use with HC5345

HO6003 Tie Bar – Single Pivot Cylinder use with HC5345



Manufacturer	Year	Model	Cylinder	Tie Bar Kits		Notes	
				Single Cylinder	Dual Cylinder		
Cox Marine	2022 - Date	300- HP Diesel	HC5358-3	N/A	HA5520		
Honda	1996 - Date	60-90 HP 4-Stroke	HC5345-3	HO6001	HO6002	See note 3	
	1998 - 2009	115-130 HP 4-Stroke	HC5347-3	HO5063	HO5064	See note 4	
	1998 - Date	30-50 HP 4-Stroke	HC5345-3	HO6001	HO6002	See note 2	
	2001 - Date	150 HP 4-Stroke	HC5345-3	HO6001	HO6002	See note 6	
	2001 - 2022	200-250 HP 4-Stroke	HC5445-3	HO6001	HO6002	See note 9	
	2003 - Date	135 HP 4-Stroke	HC5345-3	HO6003	HO6002		
	2011 - Date	115 HP 4-Stroke	HC5345-3	HO6003	HO6002		
Johnson/Evinrude	2015 - Date	100 HP 4-Stroke	HC5345-3	HO6003	HO6002	See note 5	
	1991 - Date	40-300 HP 2-Stroke	HC5345-3	HO6003	HO6002	Inc. Etech engines	
	1997 - Date	75-300 HP Ficht	HC5345-3	HO6003	HO6002		
	1998 - Date	40-140 HP 4-Stroke	HC5358-3	HO6003	HO6002	See note 2	
	2000 - 2003	115 HP Ficht	HC5358-3	HO6003	HO6002	See note 2	
	2002 - Date	200-225 HP 4-Stroke	HC5345-3	HO6003	HO6002		
	2005 - Date	250 HP DPX Vindicator	HC5348-3	HO6003	HO6002		
Mercury	2007 - Date	200-250 HP 3.3L V6	HC5345-3	HO6003	HO6002	Inc. H.O. models	
	1989 - Date	75-300 HP 2-Stroke	HC5345-3	HO6001	HO6002	See note 3	
	1996 - Date	75-200 HP 2 and 4-Stroke	HC5345-3	HO6001	HO6002	See note 6	
	1998 - 2008	40-60 HP 2 and 4-Stroke	HC5348-3	HO6001	HO6002	See note 2	
	2008 - Date	60 HP 4-Stroke	HC5345-3	HO6001	HO6002		
	2002 - 2003	225 HP 4-Stroke	HC5358-3	HO6001	HO6002	See note 1	
	2004 - Date	150-200 HP Verado	HC5345-3	HO6001	HO6002		
	2003 - Date	150-200 HP PRO XS	HC6345-3	HA5522	HA5520		
	2003 - Date	250-300 HP XS	MUST use Tournament cylinders. Refer to page 14				
	2016 - Date	115-150 HP 2.1/3.0L 4-Stroke	HC5345-3	HA5522	HA5520	See note 7	
2017 - Date	175-225 HP 3.4L V6 4-Stroke	HC5345-3	HO6001	HO6002			
2018 - Date	250-300 HP 4.6L V8 4-Stroke	HC5345-3	HA5521	HA5520	See note 7		
Oxe	2017 - Date	200 HP Diesel I4 2.4L	MUST use Tournament cylinders. Refer to page 14				
	2020 - Date	300 HP Diesel	MUST use Tournament cylinders. Refer to page 14				
Suzuki	2002 - Date	90-140 HP 4-Stroke inc. A Series	HC5358-3	HO6003	HO6002	See note 2	
	2013 - Date	150-200 HP 4-Stroke 4 Cylinder	HC5345-3	HO6001	HO6002		
	2004 - Date	200-300 HP 3.6 4.0L V6	HC5345-3	HO6001	HO6002		
	2017 - Date	325-350 HP 4.4L V6	MUST use Tournament cylinders. Refer to page 14				See note 8
	2020 - Date	115-140 HP B Series	MUST use Tournament cylinders. Refer to page 14				
Yamaha	1990 - 2007	40-90 HP 2-Stroke	HC5345-3	HO6003	HO6002		
	1986 - Date	100-300 HP 2-Stroke	HC5345-3	HO6001	HO6002		
	2000 - Date	150-300 HPDI	HC5345-3	HO6001	HO6002		
	2001 - 2003	80-250 HP 4-Stroke	HC5358-3	HO6001	HO6002	See note 1	
	2003 - Date	150-250 HP 3.3L	HC5358-3	HO6001	HO6002		
	2003 - Date	25-70 HP 4-Stroke	HC5348-3	HO6003	HO6002	See note 3	
	2007 - Date	200-300 HP 4.2L V6 4-Stroke	HC5345-3	HO6001	HO6002		
	2007 - Date	300-350 HP 5.3V8	MUST use Tournament cylinders. Refer to page 14				
	2011 - 2014	90-115 HP inc. A Series	HC5358-3	HO6003	HO6002		
	2014 - Date	90-115 HP inc. B Series	HC5345-3	HO6001	HO6002		

### Model Installation Notes:

NOTICE: HO6001, HO6002 and HO6003 are for engine centres up to 36". For wider engine centres, consider an aggressive tie bar kit. (Subject to change)



## DOMETIC SEASTAR | Pro Series Steering

The ultimate steering for high speed single outboards, SeaStar PRO®, is designed for the high speed and performance of today's top-end single powered outboard boats capable of speeds in excess of 65mph.

The SeaStar Pro Front Mount Outboard Cylinders have keyed support brackets to prevent racking of the cylinder which gives it a more solid feel and more robust bushings. SeaStar PRO Outboard cylinders are suited for all those critical high speed, single powered outboard boats.

Manufacturer	Year	Model	Cylinder	Notes
Honda	2001 - Date	150-250 HP 4-Stroke	HC6345-3	HA5472 stroke limit kit MUST be installed when using on 200-250 HP 4-stroke (pre-2023 only)
Johnson/Evinrude	2002 - Date 2003 - Date 2005 - Date	150-250 HP 4-Stroke 150-300 HP Etech 250 HP DPX Vindicator	HC6345-3 HC6345-3 N/A	
Mercury	1989 - Date	150-300 HP 2-Stroke, 4-Stroke and XS Engines inc. 4.6L V8	HC6345-3	
Suzuki	1986 - Date	150-300 HP 2 and 4-Stroke	HC6345-3	Includes all 4-stroke models
Yamaha	1986 - Date	150-300 HP 2 and 4-Stroke	HC6345-3	

### TOURNAMENT & PRO SERIES

HC6345-4	Pro O/B Front Mount Cylinder
HC6845	Tournament Cylinder
HC6845S	Tournament Cylinder Single
HH5770-4	Pro Front Mount 2.0 Cubic Inch Helm Pump
HH5772-4	Pro Front Mount 2.4 Cubic Inch Helm Pump
HH6190-4	Pro Sport Tilt 2.0 Cubic Inch Helm Pump
HH6574-4	Pro ClassicTilt 2.0 Cubic Inch Helm Pump
HYCL-001	Pro & Tournament Stabiliser Kit - 4" Long Clips - Pack of 2
PT1000-2P	Pro Trim Single Function
PT2000-2P	Pro Trim Dual Function



# DOMETIC SEASTAR | Tournament Cylinders

## Applications

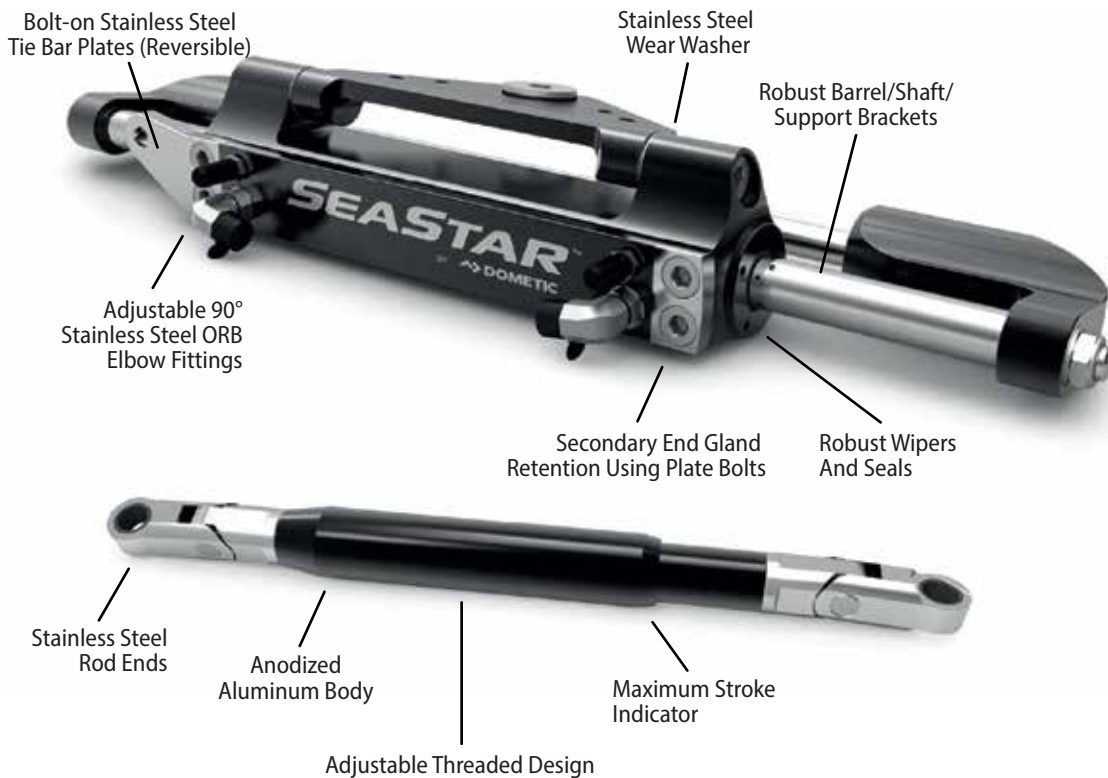
Ideal for nearly any multi-engine outboard-powered boat which sees heavy use. For use with SeaStar helms and PRO hoses.

## Features:

- Suitable for use with all SeaStar Helms & SeaStar Power Assist
- Heavy duty universal cylinder
- Bolt on stainless steel tie bar plates, also reversible
- Robust design with heavy duty support brackets, barrel, shaft & seals
- Superior corrosion resistance
- New pivot plate design provides smooth articulation and sealed joint
- Heavy duty adjustable tie bar
- Equipped with stainless steel adjustable o-ring sealed elbow fittings which can be easily orientated in any direction

## Important Notice:

Each configuration requires a hardware kit AND tie bar kit, with the exception of the single engine configuration.

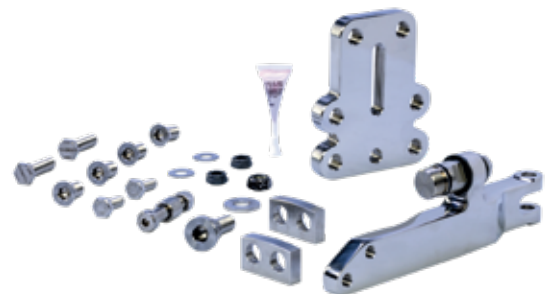


## Tournament Cylinder Tie Bars

HO6819	Tournament Serie Tie Bar – Extra Small
HO6820	Tournament Series Tie Bar - Small
HO6821	Tournament Series Tie Bar - Medium
HO6822	Tournament Series Tie Bar - Large
HO6823	Tournament Series Tie Bar - X-Large
HO6824	Tournament Series Tie Bar – XX-Large
HO6825	Tournament Series Tie Bar – XX-Large+

## Tournament Cylinder Kits

HA6802	Hardware Kit - Twin engine, single cylinder STBD
HA6804	Hardware Kit - Twin engine, dual cylinder
HA6806	Hardware Kit - Triple engine, dual cylinder
HA6811	Hardware Kit - Quad engine, dual cylinder
HP6160	Tournament Cylinder Seal Kit



# TOURNAMENT SERIES APPLICATION GUIDE

Configuration	Cylinder		Hardware Kit		Tie Bar			Notes
	Part	Qty	Part	Qty	Engine Centre Distance	Part	Qty	
Single Engine ~ Single Cylinder	HC6845*	1	HA6801	1	inches (mm) N/A			1
Twin Engine ~ Single Cylinder (Starboard)	HC6845*	1	HA6802	1	25.0-25.6 (633-650)	HO6821	1	1,3,4,5
					25.7-30.6 (653-777)	HO6822	1	1,3,4,5
					30.7-39.4 (780-1001)	HO6823	1	1,3,4,5
					39.5-54 (1003-1372)	HO6824	1	1,3,4,5
Twin Engine ~ Dual Cylinder	HC6845*	2	HA6804	1	25.0-26.5 (635-673)	HO6820	1	1,3,4,5
					26.6-29.3 (676-744)	HO6821	1	1,3,4,5
					29.4-34.2 (747-869)	HO6822	1	1,3,4,5
					34.3-43.0 (871-1092)	HO6823	1	1,3,4,5
					43.5-58.0 (1105-1473)	HO6824	1	1,3,4,5
Triple Engine ~ Dual Cylinder	HC6845*	2	HA6806	1	25.0-27.9 (635-709)	HO6822	2	1,2,3,4,5,6
					28.0-36.0 (711-914)	HO6823	2	1,2,3,4,5,6
					63.0- 51.0 (914-1295)	HO6824	2	1,2,3,4,5,6

\*Subject to change

## Tournament Series Application Notes

- 1.Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt location, engine tilt range, and engine size.
- 2.For centre engine drops greater than 3 inches (76mm), please consult with Hypro Marine.
- 3.Tie Bar length may vary depending on toe in/out setup. To allow for toe, add or subtract your normal engine centre to centre distance.
- 4.Based on recommended engine manufacturer minimum centre to centre distances. Deviating from these recommendations may require stroke limiting cylinders and/or engine tilt, please consult with Hypro Marine.
- 5.Cylinder's must be plumbed in parallel only, no series connections. Only exception is if cylinders are utilising a liquid tie bar.
- 6.Maximum drop: ≤3 inches (76mm).

\*HC6850 for Honda V6 or where stroke reduction is desired. Yamaha 3.3L requires one cylinder per engine.

~Mercury multi engine applications may require additional parts, contact Dometic Technical Service.

OXE 300 must use dual cylinder HC6850 for twin engine, no single HC6850 cylinder option.

For triple engine setup two HA6864 bolt kits must be used for centre engine.

# DOMETIC SEASTAR | Inboard Steering

SeaStar Inboard Steering Systems are engineered and manufactured for all pleasure and work boat applications up to 50ft. with some exceptions. System selection, installation and service is substantially simplified with just three major components – helm, cylinder and tube or hose.

SeaStar has a comprehensive range of available cylinders to handle a variety of Outboard, Sterndrive and Inboard steering applications. These are suitable for both pleasure and commercial applications. Extra steering stations and/or autopilots are easily added.



## Features:

- Regular duty aluminium cylinders.
- Heavy duty brass cylinders.
- Easy installation for single and dual rudder vessels.
- Cylinders supplied with bleeder fittings.
- Two axis articulation.
- Easy autopilot interface.

## SeaStar | Inboard Helms

HH5217-4	Commercial 1.7 Cubic Inch Helm SS Shaft
HH5224-4	Commercial 2.4 Cubic Inch Helm SS Shaft
HH5271-4	Front Mount 1.7 Cubic Inch Helm Pump
HH5272-4	Front Mount 2.4 Cubic Inch Helm Pump
HH5273-4	Front Mount 2.0 Cubic Inch Helm Pump
HH6192-4	Sport Tilt 2.4 Cubic Inch Helm Pump
HH6541-4	Traditional Tilt 1.7 Cubic Inch Helm Pump
HH6542-4	Traditional Tilt 2.4 Cubic Inch Helm Pump
HH6543-4	Traditional Tilt 2.0 Cubic Inch Helm Pump

Please note: Rear Mount Helms also available, please ask for details.



## Capilano Steering Helms | Rear Mount

HH5250	1.7-3.4 Cubic Inch Helm SS1250V – Variable
HH5275	2.7-5.4 Cubic Inch Helm SS1275V – Variable

## Inboard Cylinders

HC5303-3	BA125-3ATM Jet Drive Cylinder
HC5312-3	BA125-7ATM – Inboard Cylinder
HC5313-3	BA135-7ATM – Inboard Cylinder
HC5314-3	BA150-7ATM – Inboard Cylinder
HC5319-3	BA175-7TM – Brass Inboard Cylinder (SeaStar Bleed)
HC5323-3	K-19 Cylinder replacement (Hynautic)
HC5326-3	BA150-7EM
HC5328-3	125-8EM – Sterndrive Cylinder
HC5331-3	92 VPS – Sterndrive Cylinder
HC5332	BA135-7EM Mercruiser/Volvo Cylinder (non power assist)
HC5351	BA200-7TMB Brass Inboard Cylinder (Capilano Bleed)
HC5373-3	BA175-9TM Brass Inboard Cylinder (Capilano Bleed)
HC5378	BA200-11TMB Brass Inboard Cylinder (Capilano Bleed)
HC6324-3	I/B Cylinder BA150-3.5ATM



# STEERING HOSES & TUBING

Hypro Marine have the facility to customise all SeaStar and SeaStar Pro hoses.

Hoses are supplied individually with either brass or stainless swage fittings on both ends.

Bend restrictors can then be supplied at the cylinder end to prevent hose from creasing. In addition, bulkheads can also be installed to provide clean routing through the splashwell or transom.

Field Installed bulkheads are now also available.

## BAYSTAR TUBING

HT4420H 20' Kit (2x 20' lengths of tubing)

HT4430H 30' Kit (2x 30' lengths of tubing)

Can be used with all BayStar helms with appropriate fittings.

Decrease effort by installing Hydraulic Hoses HM3242



## STEERING HOSES

HM3242/XX SeaStar hose with brass swage ends

HM3242/XX/SS SeaStar hose with stainless steel swage ends

HM3320/XX SeaStar hose, bend restrictor with brass swage ends

HM3320/XX/SS SeaStar hose, bend restrictor with stainless steel swage ends

(Hydraulic hoses made to order at exact length required)

Replace XX with length required in metre

Can be used with all SeaStar Systems, except SeaStar PRO, Capilano and 3-line inboard systems.

## SEASTAR PRO OUTBOARD KEVLAR HOSES

HM3625/XX SeaStar PRO hose with brass swage ends

HM3625/XX/SS SeaStar PRO hose with stainless steel swage ends

HM3620/XX SeaStar PRO hose, bend restrictor with brass swage ends

HM3620/XX/SS SeaStar PRO hose, bend restrictor with stainless steel swage ends

Can be used with all SeaStar / BayStar Steering Systems

Replace XX with length required in metres

# BULKHEAD FITTINGS

Bulkhead fittings assure a neat and tidy routing of hoses through the splashwell or transom, helping to eliminate excess loose hose, kinking or chafing. Bulkheads are available either pre attached or can be installed remotely.

## BULKHEAD FITTINGS

HF5512 Bulkhead Fitting Kit 3/4" Single

HF5516 Black Anodised Bulkhead Pigtail Fitting

HF5556 Single Stainless Bulkhead Fitting

HF5557 Double Bulkhead Fitting St/St Plate



HF5512 Bulkhead Fitting Kit 3/4" Single



HF5516 Bulkhead Pigtail Fitting

## FIELD INSTALLED FITTING KITS

Can be used as a retro fit to hoses that have already been made

HO7100 Field installed bulkhead, single hose, pair, stainless

HO7105 Field installed bulkhead, single hose, pair, plastic

HO7200 Field installed bulkhead, dual hose, stainless

HO7205 Field installed bulkhead, dual hose, plastic



HF5557 Twin Bulkhead Fitting



HO7108 Field Installed Bulkhead



## DOMETIC SEASTAR | Aftercare

### SEASTAR CYLINDER | Aftercare

409620	Bleed Tee Kit - Pair, HC5342,5340,5365,5370,5380
600620	St/St 90° Elbow for SeaStar O/B Pivot Cyl.
828045	SeaStar Pivot Plate for HC5345-3
828047	SeaStar Pivot Plate for HC5347-3
828048	SeaStar Pivot Plate for HC5348-3
828085	Adjuster Nut and Screw
839120	Support Bracket
HA5820	Pivot Plate Bushing Kit
HA5822	Tiller Bolts - SeaStar
HF5548	Bleed Nipples for SeaStar O/B Pivot Cylinder-set of 2
HM2592	3/8" O/D Tee with 1/4" NPTF on Branch SeaStar Cyl.
HM3284	3/8" O/D Tee with 1/4" NPTF on run SeaStar Cyl.
HM3286	Bleed Nipple Assembly for General SeaStar Cyl.
HP6016	Support Rod - SeaStar - (730229)
HP6033	Hardware Kit, space kit, nuts and washer
HP6036	Hardware Kit c/w Nuts/Washers
HS5153	Seal Kit O/B Side Mount Cylinder
HS5157	Seal Kit O/B FM CYL c/w End Glands <b>and</b> Spanner
HS5167	Seal Kit O/B FM CYL c/w End Glands <b>no</b> Spanner



### SEASTAR HELM | Aftercare

058733	Non Vent Plug (HA5432)
225226	Shaft Seals
260126	Woodruff Key (single)
HA5431	Vented Plug (single)
HA5438	Filler Kit
HF6004	ORB 90deg Elbow (2 per pack)
HM2246/6/4	3/8" O/D 1/4" NPTF 90° Elbo w. S'S and B'S Helms
HM3186	Helm Shaft Nut
HP6032	Helm Service Kit
HS5151	Seal Kit for SeaStar Helm (Pre-1990)
HS5176	Seal Kit for SeaStar and BayStar Helms (Current)

# DOMETIC SEASTAR | Inboard Steering Aftercare

## BAYSTAR HELM | Aftercare

225226	Helm Shaft Seal (Current Helms)
HA5438	Filler Kit
HF5519	3/4 SAE 45° Tee with 3/8" NPT c/w Bleed Nipple Assy
HS5147	Seal Kit for BayStar Old Style Helm (Plastic)
HS5171	Helm seal kit 1350 and 1350S - HH0426
HS5176	Seal Kit for SeaStar and BayStar Helms (Current)



## SEASTAR HELM | Aftercare

058733	Non Vent Plug (HA5432)
225226	Shaft Seals
260126	Woodruff Key
HA5431	Vented Plug
HA5438	Filler Kit
HM2246/6/4	3/8" O/D 1/4" NPTF 90° Elbow. S'S and B'S Helms
HM3186	Helm Shaft Nut - 21NC Plated
HM3265	3/8" O/D 1/4" NPTF STR. - SeaStar and BayStar Helms
HP6032	Helm Service Kit
HS5151	Seal Kit for SeaStar Helm (Pre-1990)
HS5176	Seal Kit for SeaStar and BayStar Helms (Current)



## SEASTAR | Cylinder Aftercare

HP6025	Seal Kit for HC5313-3 & HC5314-3
HP6026	Seal Kit for HC503-3 & HC5312-3
HP6027	Seal Kit for HC5329-3, HC5330-3 & HC5331-3
HP6068	Mounting Foot for All Brass / Inboard Cylinders
HS5154	Seal Kit - HC5331
HS5155	Seal Kit - HC5313, HC5327 & HC5332
HS5156	Seal Kit - HC5314, HC5326, HC5336
HS5182	Seal Kit - HC5318, HC5369
HS5183	Seal Kit - HC5319







## CAPILANO | Helm and Cylinder Aftercare

HA5450	Remote fill & vent kit
HS5161	Seal Kit 250v/75v; 1250v/75v - HH5275, HH5250, HH0217, HH0132

Capilano Hydraulic fittings are shown in the panel below.

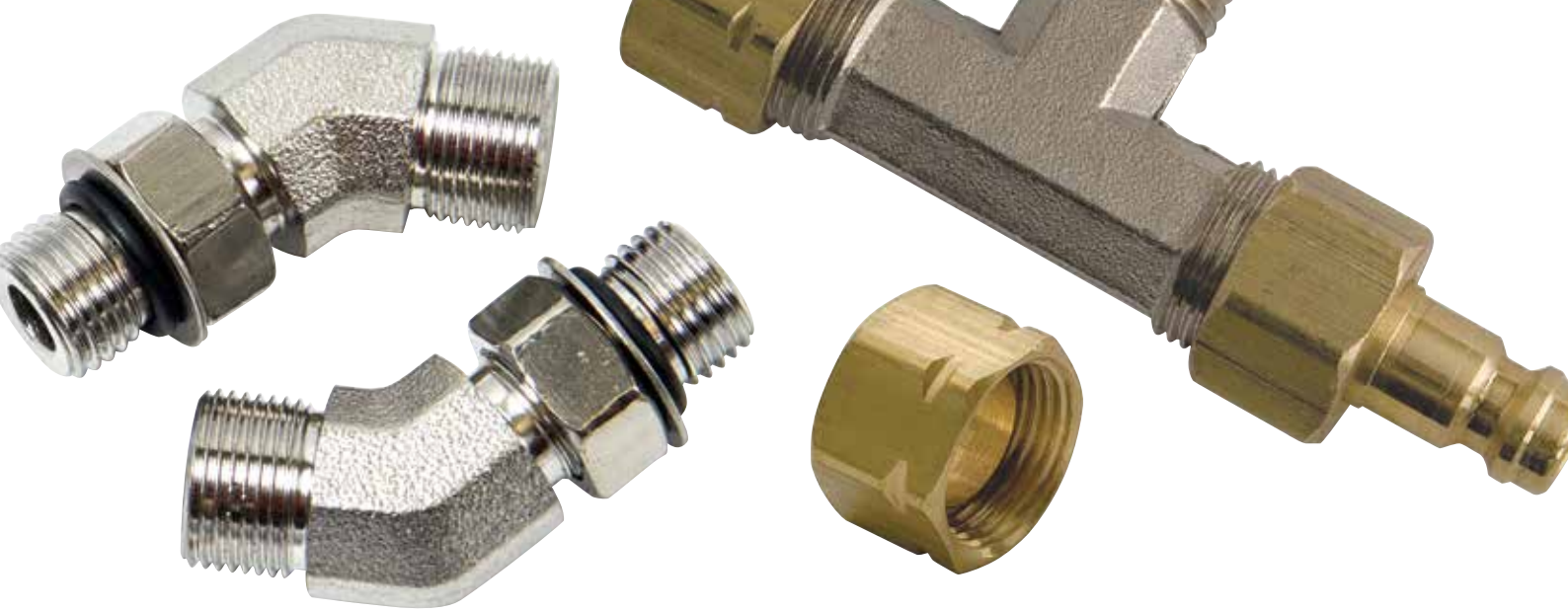


<p>1/4" NPT</p>  <p>5/8" SAE</p> <p>HM2242 each Straight Fitting</p>	<p>1/4" NPT</p>  <p>5/8" SAE</p> <p>HM2242/6 each Straight Fitting</p>	<p>5/8" SAE</p> <p>3/8" NPT</p>  <p>HM2243/6 each Elbow Fitting</p>	<p>1/4" NPT</p> <p>5/8" SAE</p>  <p>HM2243 each Elbow Fitting</p>
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## SEAL KITS

HM1870	Seal Kit for HM1647 Cylinder/Servo/Valve	HM5832	Seal Kit for Catridge Relief Valve
HM1871	Seal Kit for HM1698 Auxilliary Power Cylinder	HM5880/SK	Seal Kit for Lock Bolt Cylinder
HM1872	Seal Kit for HM1690	HM5900/SK	Seal Kit for Ramp Cylinder
HM1873	Seal Kit for HM1844 Flow Control Valve	HM5990/SEAL	Seal Kit for HM5990 Cylinder
HM1874	Seal Kit for HM1790 Economy Servo Assembly	HP6025	Seal Kit for HC5313-3 & HC5314-3
HM1875	Seal Kit for HM1820 Economy Reservoir	HP6026	Seal Kit for HC5303-3 & HC5312-3
HM1877	Seal Kit for HM1087 Hydraulic Cylinder	HP6027	Seal Kit for HC5329-3/HC5330-3/HC5331-3
HM1954	H20/40 Series Helm Seal Kit	HP6160	Tournament Cylinder Seal Kit
HM1958	Seal Kit - PSK10V K1B Cylinder	HS-08	Seal Kit (Series 80)
HM2081	Helm Seal Kit for (20 series)	HS5147	Helm Seal Kit Baystar HH4016/HH4015
HM2138	Helm Seal Kit for (50 series)	HS5151	Helm Seal Kit (old style 1984-1989)
HM2229A	Seal Kit for HM2042 Reservoir Assy	HS5153	Seal Kit Side Mount
HM2265	Cylinder Seal Kit K3/K4 & PSK11/12 all versions	HS5154	Cylinder Seal Kit BA125 EM MV BJ ATM
HM2268/SK	Seal Kit for Oil Cooler 820201	HS5155	Cylinder Seal Kit BA135 EM MV BJ ATM
HM2275	Seal Kit for HM1518/HM1909/HM4440 Garage Cylinder	HS5156	Cylinder Seal Kit BA150 EM MV BJ ATM
HM2297	Seal Kit for HM1490 Emergency Steering Valve	HS5157	Cylinder Seal Kit - Screw-in End Glands with Spanner
HM2587	Cylinder Seal Kit for K-7	HS5161	Helm Seal Kit Capilano 250V/75V 1250V 1275V
HM2639	Seal Kit for HM2550 Hydraulic Power Pack	HS5176	Seal Kit for SeaStar and BayStar Helms (Current)
HM2704	Seal Kit for HM1570 C/L R/V	HS5171	Helm Seal Kit Capilano 1350/1350S
HM2711	Seal Kit for HM2218 Pumps	HS5176	Helm Seal Kit new Helm HH5270 thru to 62 & HH4314
HM2711/CAP/1	Seal Kit for HM2218/HM1886 Pump	HS5182	Cylinder Seal Kit 150 -7 BA STD TR TM
HM2843	Seal Kit for HM2835/HM2915/HM2980 Cylinder	HS5183	Cylinder Seal Kit 175-7 BA STD TR TM
HM2877	Seal Kit for HM2930 Cylinder	HS5184	Cylinder Seal Kit 200 -7 BA STD TR TM
HM3146	Cylinder Seal Kit for O/B Side Mount	HS5185	Cylinder Seal Kit BA200 11 Seastar/Capilano TM Inboard
HM3148	Cylinder Seal Kit 200-11TR/200-15	HS5196	Cylinder Seal Kit PSServo Valve HC5802 & HC5803
HM3722	Seal Kit for HM5860 Cylinder	HS5197	Cylinder Seal Kit for HC5802 & HC5803 Power Steering Servo Cylinder
HM3747	Seal Kit - Hand Pump	HS5198	Cylinder Seal Kit for HC5802 & HC5803 Power Steering Drive Cylinder
HM3796SK	Seal Kit for Hydraulic Cylinder	KS-02	Cylinder Seal Kit for HM1139 (K18 thru K19)
HM4109/SEAL	Seal Kit for Platform Lock Valve	KS-03	Cylinder Seal Kit for K2 & H100
HM4308	Seal Kit for HM4040/HM5090 Servo Cylinder	KS-05	Seal Kit for K31 Cylinders
HM4344/SK	Seal Kit for HM4344 Pump	KS-06	Cylinder Seal Kit (K21 Thru 29)
HM4522	Seal Kit for HM4470 Auxilliary Cylinder	KS-11	Cylinder Seal Kit for HM1107/PSK-10B
HM4542	Seal Kit for HM4406 Autopilot Valve	KS-12	Seal Kit for K2-B Cylinder
HM4889	Seal Kit for HM2940/HM4490/HM5030 Cylinders	KS-13	Cylinder Seal Kit for K-4B Before 15.4.2009 (HM1238/9)
HM4893	Seal Kit for HM4893 Steering Cylinder	KS-14	Seal Kit K51 Cylinder
HM5005	Seal Kit for Ultra Dynamics Round Section Cylinders	KS-18	Cylinder Seal Kit for K8 new
HM5086	Seal Kit for HM5080/HM5070 Cylinder	KS-19	K6 Cylinder Seal Kit
HM5110/SK	Seal Kit for HM5110 DC Power Pack		
HM5225	Seal Kit for both Head Design (HM5035)		
HM5697	Seal Kit - HM4040/12/C		



# HYDRAULIC ACCESSORIES | ORB Fittings

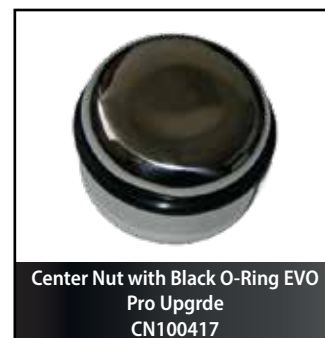
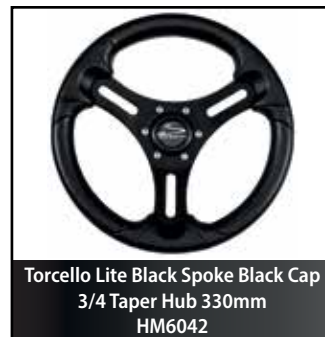
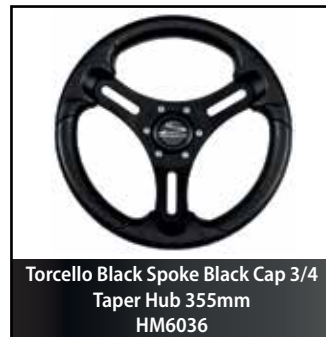
 <p>HF5600 Adaptor Fitting kit (pair) -6 ORB with bleed tee</p>	 <p>5 ORB 3/8" Tube</p> <p>HF6001 Horizontal Hose (pair)</p>	 <p>3/8" Tube 5 ORB</p> <p>HF6002 Vertical Hose (pair)</p>	 <p>3/8" 5 ORB</p> <p>HF6003 Hydraulic Hose (pair)</p>
 <p>3/8" Tube 5 ORB</p> <p>HF6004 90 degree Elbow (pair) (343184)</p>	 <p>3/8" Tube 5 ORB</p> <p>HF6005 Horizontal Tee Fitting (pair)</p>	 <p>3/8" Tube 5 ORB</p> <p>HF6006 End On Tee Fitting (pair)</p>	 <p>3/8" Tube 5 ORB</p> <p>HF6009 Straight Fitting (pair) (343088)</p>
 <p>HF6010 Helm Fitting Kit</p>	 <p>HF6011 45 degree Fitting (pair) (343186)</p>	 <p>5 ORB 1/4" NPT</p> <p>HF6012 -5 ORB(M)-1/4 NPT(F) (pair) (343087)</p>	 <p>HF6013 -6 ORB Bleed Tee Kit For Mercury cylinder</p>

<p>HF4201/HF4202 BayStar Bleed Tee Kit (Early Baystar Cylinders)</p>	<p>3/4 UNF 3/8" NPT Bleed Nipple</p> <p>HF5519 kit Bleed Tee (TM Cylinder)</p>	<p>3/8" Black Nylon Tube 1/4" NPT Bleed Nipple</p> <p>HF5520 kit Horizontal Bleeder Tee</p>	<p>3/8" Black Nylon Tube Bleed Nipple 1/4" NPT</p> <p>HF5521 kit Vertical Bleeder Tee</p>
<p>3/8" Tube 3/8" Tube</p> <p>HM2109/6 each Equal Union Coupling Fitting</p>	<p>1/4" NPT 3/8" Tube</p> <p>HM3265 each Straight Fitting</p>	<p>3/8" NPT 3/8" Tube</p> <p>HF5532 (3 per kit) Connector Fitting</p>	<p>JIC37.5 FLARE 9/16" -18UNF 3/8" Tube</p> <p>HF5566 kit Adaptor Fitting</p>
<p>1/4" NPT 3/8" Tube</p> <p>HM2246/6/4 each Elbow Fitting</p>	<p>3/8" NPT 3/8" Tube</p> <p>HM3686 each Elbow Fitting</p>	<p>3/8" Tube 1/4" NPT</p> <p>600607 each 45 Degree Fitting</p>	<p>3/8" Tube 1/4" NPT</p> <p>600620 each Fitting Stainless Steel</p>
<p>1/4" NPT 3/8" Tube 3/8" Tube</p> <p>HM3284 each End On Tee Fitting</p>	<p>3/8" Tube 3/8" Tube 3/8" Tube</p> <p>HM2591/6 each Equal Tee Fitting</p>	<p>3/8" Tube 1/4" NPT 3/8" Tube</p> <p>HM2592 each On The Branch Tee Fitting</p>	<p>HM5250 each Bypass Valve</p>
<p>HM3286 each Seastar Bleed Probe Set</p>	<p>HF5548 Cylinder Bleed Nipple (set of 2)</p>	<p>3/8" Tube</p> <p>HM3285 each Tube Compression Nut</p>	<p>3/8" Tube</p> <p>HF5524 each Cap Plug Nut</p>





# SCHMITT | Steering Wheels





## DOMETIC | Power Assist

The Marine Industry is continually introducing heavier outboard engines, higher horsepower engines, more aggressive propellers, bigger and/or faster boats. Boat operators are asking for increased comfort and lighter steering loads. These factors were the driving force behind the design of the SeaStar™ and SeaStar PRO™ Power Assist Unit. This innovative product is highly recommended on any 150 HP and above outboard application, to give your boat the same, easy steering that you are accustomed to in your car.

### SeaStar Power Assist Features:

- Dramatically increases steering comfort
- Reduced wheel effort
- Easy Installation
- Simple 'add-on' to existing SeaStar manual system (up to 2.0cu. in. helms) compatible with autopilots
- Wiring harness included
- Ignition protected (SAE J-1171)
- Auto recognise system voltage (12v or 24v)
- ABYC, CE, NMMA, ISO 10592 Approved



### SeaStar Power Assist

PA1200-3	Power Steering Module
PA1200-3HP	Power Steering Module*
PA1225-3	Power Steering Module 25hp Harness
HA1201	Dual Ignition Control Kit
HA1230	Replacement Motor
HA1206	Maxi Fuse 40amp Kit
HA1205	Power Assist Autopilot Retrofit Kit
799047	Motor Shaft Coupling

\*Must use HA5482 EPS Hydraulic Fluid

The SeaStar Autopilot unit is a fixed flow, reversible pump that uses an internal hydraulic gear pump, producing very little vibration or noise. It is offered in 12 or 24 volt configurations, as well as two different pump sizes (type 1 and type 2). It can be used as a stand alone pilot pump or can be mounted to a previously installed SeaStar Power Assist unit and can prevent the need to break into hydraulic lines.

### SeaStar Autopilot Features:

- Long Life DC Motor (i.e. long life brushes).
- Simplified installation.
- ABYC, CE and J1171 compliant.
- Stand alone or mounts to SeaStar Power Assist unit.
- Compact design.
- Low power consumption.
- Superior corrosion resistance.



### Autopilot

AP1219	Type 1 - 12v - 60cu.in/min
AP1233	Type 2 - 12v - 100cu.in/min
AP2419	Type 1 - 24v - 60cu.in/min
AP2433	Type 2 - 24v - 100cu.in/min



### Smart Stick

AR4502	Generic - 0.5V to 4.5V
AR4502RM	Ray Marine Installations Only - 2.2V to 2.8V
AR4502SI	SimRad Installations Only - 2.8kHz to 4.0kHz

### Autopilot

PA6010	SPA System + Type 1 12V Autopilot
PA6020	SPA System + Type 2 12V Autopilot
PA7010	SPA System + Type 1 24V Autopilot
PA7020	SPA System + Type 2 24V Autopilot





## DOMETIC OPTIMUS EPS | Electronic Power Steering

Optimus EPS truly raises the bar when it comes to comfort, control and maneuverability, especially for the new breed of high performance powerboats, saltwater fishing vessels, catamarans, RIBs and high end pontoon boats. Active Sensitivity Lock-to-lock turns and wheel effort are programmed to change with engine RPM. At slow speeds, Optimus EPS can be set to reduce the number of turns lock-to-lock, for example 4 and make it easier to steer. When you're negotiating through traffic or in a tight spot, those smaller moves of the wheel give you precise control. When you're running at speed in open water, Optimus EPS can be set to increase lock-to-lock turns, for example, and increase steering effort giving the driver more stability to comfortably keep on course.

### Advantages of Electronic Power Steering (EPS):

- No oil at the helm
- Plug and play autopilot compatibility
- No auto pilot pump or rudder feedback unit
- Adjustable speed sensitive wheel effort and turns lock to lock
- Can be retrofitted to existing mechanical and electronic controlled engines.
- No tie-bars (twin configuration)
- No liquid tie-bar (CAT)



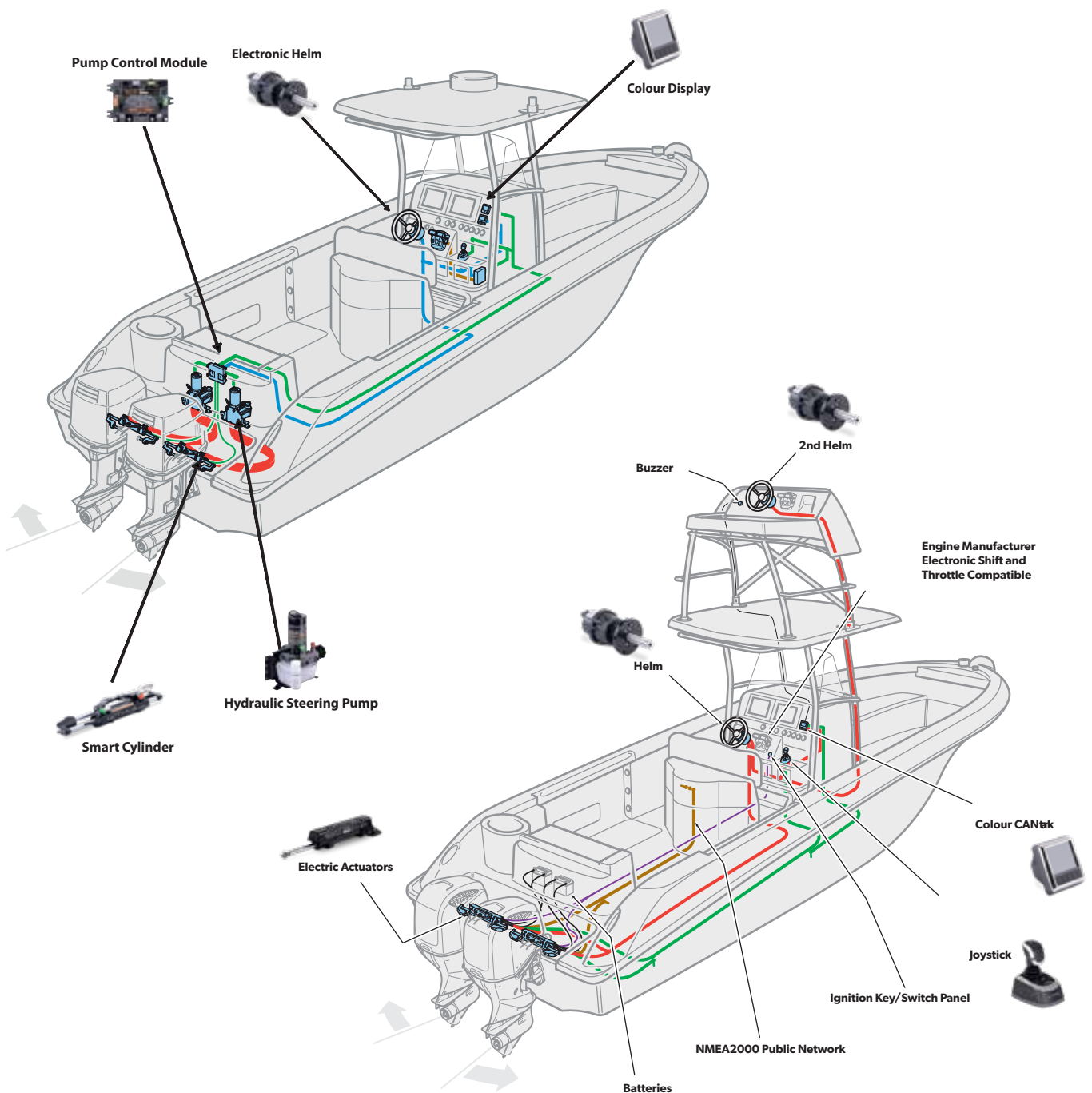
### Dometic Optimus Link

The new Optimus Link user interface features a sleek, space-saving design that streamlines the dashboard for a cleaner, more organised look. Its minimalist aesthetic seamlessly integrates with any vessel's interior while offering improved functionality through intuitive controls. As a more affordable alternative to the traditional color display, the Optimus Link UI makes advanced electronic power steering more accessible than ever.

### Engines Supported



- Up to three helms stations
- Automatic battery management with sensing, warnings & best battery selection
- On demand hydraulic steering pump minimising power consumption
- No oil at the helm
- Rugged electronics for 12 or 24 VDC applications
- Colour dash display showing rudder command and rudder position graphic
- Displays system health
- Helm shaft: 3/4" taper
- Utilises fault tolerant CAN network
- Full autopilot CANbus connectivity and integration. No additional pumps or sensors required
- Adjustable max rudder hard over angle with speed range 20° to 30° centre to hard over
- Position proportional rudder gain for faster steering response near neutral rudder position
- RPM input: NMEA 2000, J1939 or analog pulse compatible
- Pump features an integrated service/bypass valve allows a limp home mode
- Auto-adjusting steering end stops and resistance with speed
- Dual redundant position sensing on all moving components





## DOMETIC OPTIMUS 360 | Joystick Control System

Optimus 360 gives your boat a whole new dimension of control. By developing the joystick function to be intuitive, Optimus 360 allows you to move your boat not only forward and back, but also sideways, by pushing the joystick to the left, or to the right, and even rotate instantly, all with a simple twist of the joystick.

Optimus 360 is designed for low speed manoeuvring, and really excels in the marina, when pulling in and out of your slip, or docking. Optimus 360 uses intelligent programming to minimise the amount of shifting required to complete a manoeuvre.

With progressive throttling, the joystick becomes a natural extension of your hand. A light push on the joystick provides minimal thrust while more thrust can be applied by pushing harder on the joystick. The boost mode increases the RPM to give you more thrust when needed.

Each component has been designed to complement the other, resulting in a seamless experience of steering control in virtually every situation on the water. The high level of engineering also extends to the reliability of the system, with quality materials, careful manufacturing and redundant systems, all to stand up to the rigors of life on the water.

### Optimus 360 Joystick Features

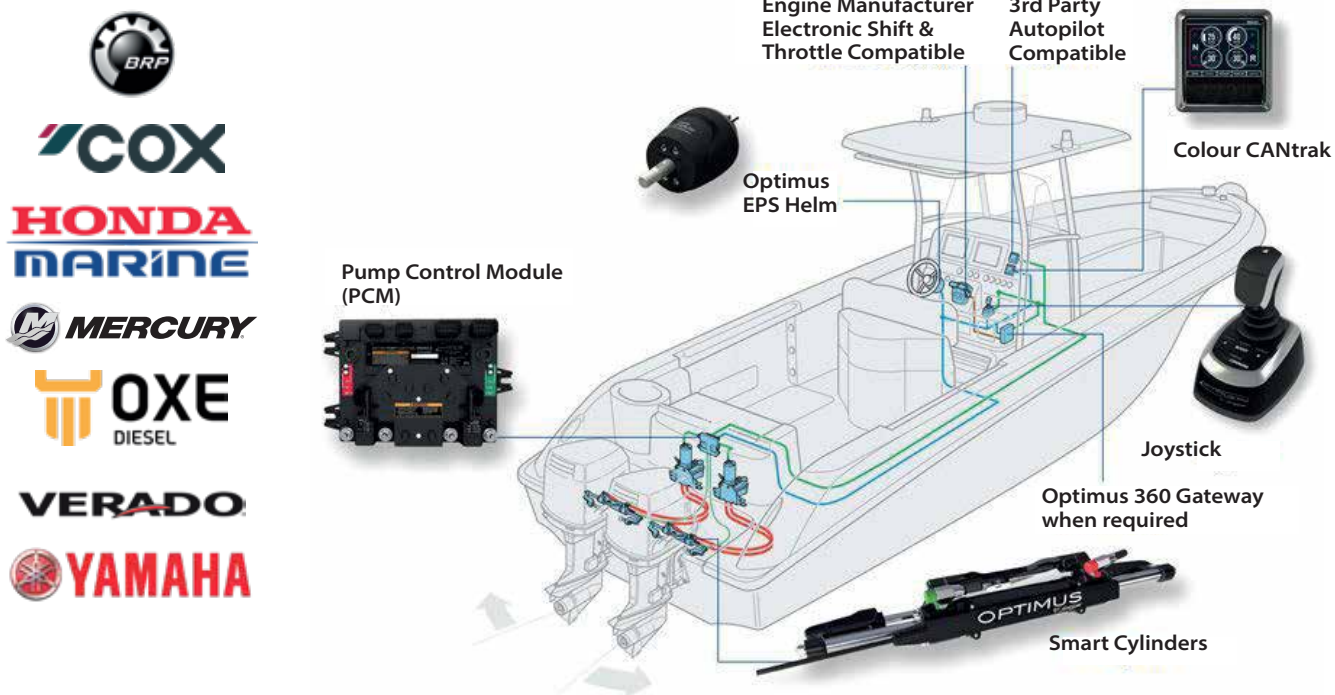
- Three axis joystick with guided feel
- Boost mode
- Take Command Mode Benefits
- Provides intuitive joystick docking
- Confidently control the boat fore/aft, sideways, diagonal and rotational movements
- Provides increased docking power to overcome winds/currents
- Single touch button activation transfers control to the joystick





# DOMETIC OPTIMUS 360 | Joystick Control System

## Optimus 360 System Schematic



NOTE: For Optimus 360 Sterndrive options please enquire for further information as boat manufacturer, engine and drive details are required.



## DOMETIC | Trim Tabs



### COMPLETE CONTROL AT THE TOUCH OF A DIAL

The heart of this trim tab system is an intuitive dial controller that lets boaters easily "dial in" the optimal ride for any situation. All the operator needs to do is turn the dial in the desired direction to level the boat, and the electric actuators respond quickly and precisely to level the ride. Easy-to-see LED lights on the controller indicate port and starboard tab positions, with an ambient light sensor that automatically adjusts brightness for optimal visibility in any environment.

### WHY TRIM TABS?

- Increase fuel efficiency by adjusting your ride to the optimal running angle
- Improve comfort by adjusting running angle based on weather conditions
- Increased safety based on sea state
- Increase visibility by adjusting the bow down
- Navigate your boat handling like a professional, no matter the conditions



### STANDARD TRIM TAB SYSTEM

When it comes to a basic trim tab system, Dometic has redefined ease of use and practicality. Featuring an intuitive dial controller, it is simple to adjust the pitch and roll to get your boat on plane quickly and efficiently. A programmable favourites button makes for effortless operation. While an innovative, rugged design and auto-retract feature, ensure reliability and safety on the water, whatever the conditions.

## SMART CONTROLLER

- Turn the dial in the direction you want to level the boat and the actuators will move quickly to get to the desired level
- Single press bow up and bow down along with auto home makes it simple to get to your preferred boat planing position
- Favourites button for easy access to previously set tab position makes planing easy
- Separate pitch from roll



## ENGINEERED FOR DURABILITY

- Rugged and stylish actuator housing, with simple two piece design that minimises possible water ingress points
- High torque DC motor
- Rear seal in protected bushing area - wiper removes particles from shaft



**Dometic Standard Trim Tab Kit, Standard Mount**



**Dometic Standard Trim Tab Kit, Edge Mount**



**Dometic Standard Trim Tab Kit, Conversion**

## DOMETIC | Trim Tabs

STT3103R	2.25" Kit — Stroke 11.5" standard actuator and controller, 9" x 12" standard tabs
STT3105R	2.25" Kit — Stroke 11.5" standard actuator and controller, 12" x 12" standard tabs
STT3107R	2.25" Kit — Stroke 11.5" standard actuator and controller, 12" x 9" standard tabs
STT3131R	2.25" Kit — Stroke 10" standard actuator and controller, 9" x 12" standard tabs
STT3133R	2.25" Kit — Stroke 10" standard actuator and controller, 12" x 12" standard tabs
STT3205R	2.25" Kit — Stroke 11.5" standard actuator and controller, 12" x 12" edge mount tabs
STT3207R	2.25" Kit — Stroke 11.5" standard actuator and controller, 12" x 9" edge mount tabs
STT3231R	2.25" Kit — Stroke 10" standard actuator and controller, 12" x 12" edge mount tabs
STT3233R	2.25" Kit — Stroke 10" standard actuator and controller, 12" x 9" edge mount tabs
STT3601R	2.25" Kit — Stroke 11.5" standard actuator and controller, no tabs
STT3701R	4.25" Kit — Stroke, 13" standard actuators and dial controller, harness, no tabs



## DOMETIC | Jackplates

### Manual Jackplate

The JP1000 Series Jackplate comes in 4", 6", 8", and 10" setbacks to help you find the best match for your boat and optimise performance.

- Interlocking slide guides offer enhanced strength while providing smooth, 3" of bind-free travel.
- The lead screw assembly sets the plate height and the Side Locks are used to hold the position.
- The stainless steel lead screw is resistant to corrosion and pre-greased for smooth operation.
- Maximum supported engine weight of 585 lbs (265 kg) is capable of handling the most demanding outboard engines including the latest generation of 4-strokes.



### Hydraulic Jackplate

Presenting a full range of plates in 4", 6", 8", 10" & 12" setbacks, with or without smartstick.

- Rapid hydraulic response in 8.5 seconds
- Rated for 300hp engines
- Complete rigid engine support at full thrust.
- Easily moves engine at full thrust.
- Designed to maximise engine tilt with SeaStar steering cylinders.



### Xtreme Jackplate

The SeaStar Xtreme Jackplates utilise high strength materials and are capable of handling 400 HP. Designed with speed and durability in mind the Xtreme Jackplate can adjust the engine height in just 8.5 seconds, giving 5.6" of movement.

- Available in 4", 6", 8", 10" and 12" setbacks, with or without smartstick
- Xtreme Jackplate line with 400HP rating in all setbacks
- Easy wrench access to engine bolts from the side
- Lower weight

\* NOTE: JP5040X requires adapter kit DK4600 for Power Pole® or Talon® anchor systems mounting.



The Mega Jackplate has been developed to withstand the power of high performance engines and is rated up to 600hp. There are 2 options available, a standard bolt pattern suited to engines such as Yamaha XTO or a wide bolt pattern for Mercury 500/600hp.

- Rated up to 600hp
- Can fit all outboard engines on the market
- Rigorously designed and tested for high impact and cyclic loads
- Comes with corrosion protection anodes
- Built in linear position sensor easily integrates with Dometic Digital Switching
- Available in 6", 8", and 10" setback standard and wide.



### Differences Between Standard and Wide Versions



## DOMETIC JACKPLATES | Add-Ons

907333	SeaStar Stabiliser Clips (pack of 2)
DK2003	Boat Wrench D1000 & D200 Jackplates
DK3010	Jackplate Relay
DK4020	Basic Rocker Switch - included with all hydraulic jackplates
DK4220	SmartStick and Gauge Kit
DK4320	Gauge and Harness Kit
DK4420	Jackplate Wire Harness
DK4710	Actuator Kit, 3/8" Mount Bolt, 5/16" socket
DK4720	Actuator Kit, 7/16" Mount Bolt, 3/8" socket
DK4850	Anode Kit
DK6125	Bolt Kit 1/2-20 unc 2.5"L
DK6135	Bolt Kit 1/2-20 unc 3.5"L
DK6145	Bolt Kit 1/2-20 unc 4.5"L
DK6165	Bolt Kit 1/2-20 unc 6.5"L
HSP5060	Hole Shot Plate Kit 6"
HSP5080	Hole Shot Plate Kit 8"
HSP5100	Hole Shot Plate Kit 10"
HSP5120	Hole Shot Plate Kit 12"
JC4500	Protap Controller
PT1000-2P	Pro Trim Single Function
PT2000-2P	Pro Trim Dual Function



## ZIPWAKE | Dynamic Trim Control System

We're proud to present Zipwake, the Dynamic Trim-Control System that is revolutionising the boat world. Featuring an advanced, intuitive control system which counters pitch and roll, Zipwake delivers a more comfortable ride, better performance and improved fuel consumption – whatever the conditions.

### Key Features:

#### Comfort and Safety

Dynamically eliminates uncomfortable and dangerous boat pitch and roll.

#### Performance and Fuel Economy

Automatically minimises wave resistance and saves fuel.

#### Intuitive and Precise Control

Innovative 3D controls provide unmatched control of running trim, heel or heading.

#### Durable and Effective

Patented series of durable fast-acting interceptors provide supreme lift force characteristics.

#### Complete and Competitive

All-inclusive mass-produced modular design provides built-in quality, simple installation and easy expansion, whilst making them affordable.

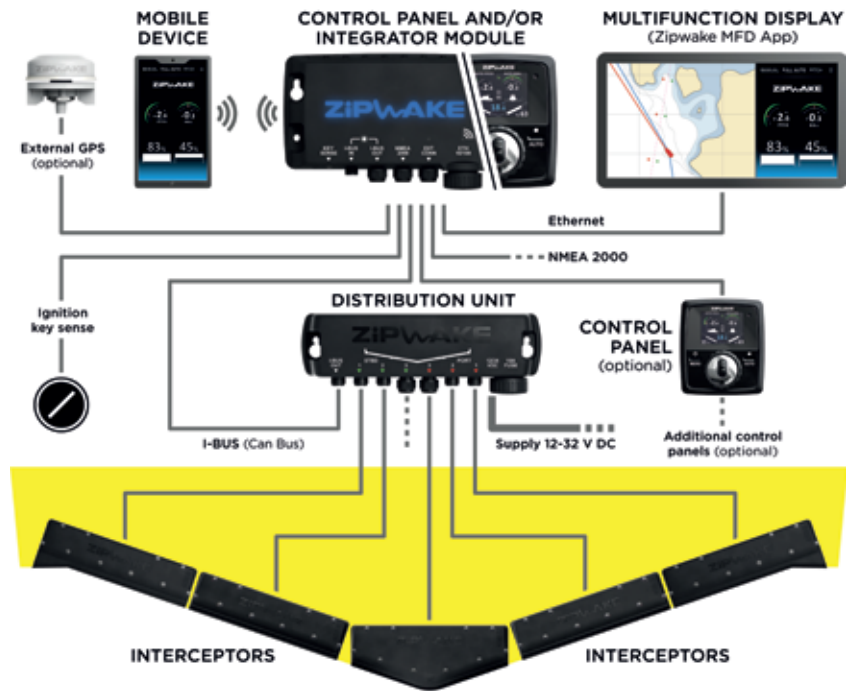


### All in a Box

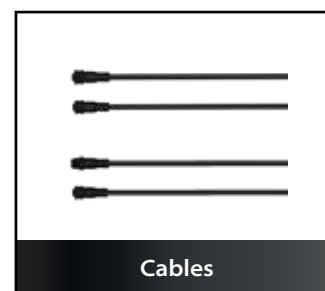
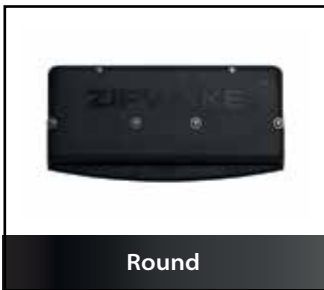
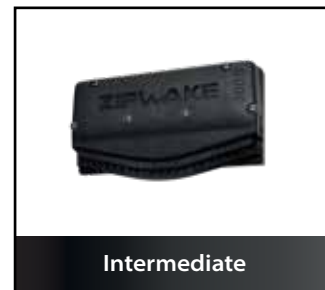
A Kit Box includes all parts needed to install a Dynamic Trim Control System with one pair of fast-acting straight interceptors. There are four different Kit Boxes, one for each interceptor length.

Any base installation can be expanded with up to two extra pairs of Series S interceptors, thus allowing a total of six interceptors without any need for additional connectors or power supply.





**Key Parts**





## SHARK SEATING | Jockey Suspension Seats

### An affordable, comfortable and safe option for suspension boat seats

Purpose built Jockey suspension seats for professional, military, and commercial fast boats.

Built in New Zealand to exacting standards to be lighter, better performing, and even more cost effective than anything else out there.



### Shark ULTRA Jockey Suspension Seat

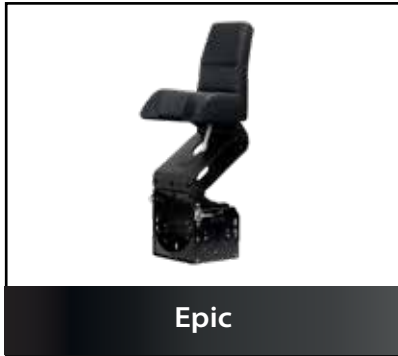
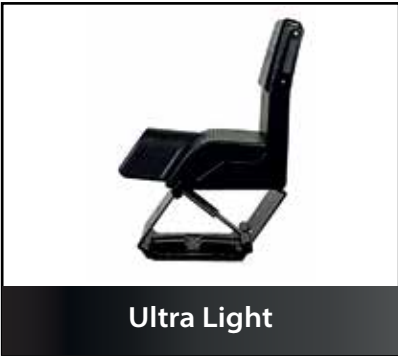
The Shark ULTRA is used when a simple, reliable, and affordable Jockey suspension seat is required. It's equipped with tough, modular foam pads which are very easy to clean. A plinth is not included as standard but can be added if required.

### Shark FLEX-Pod & FLEX Suspension System

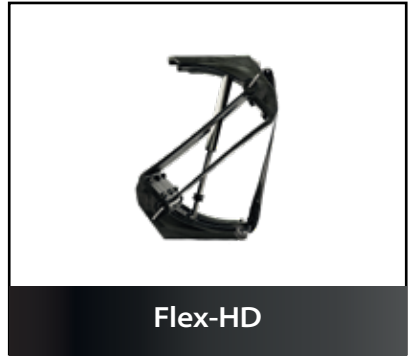
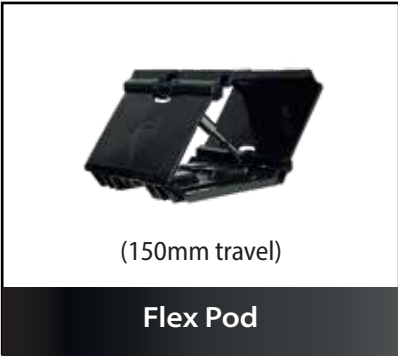
The Shark FLEX Pod & FLEX is the core of the Shark system. It provides 150/200mm of ultra-smooth travel in a system that is completely corrosion proof, light and tough. Compatible with a variety of off the shelf seats, as well as those made by Shark.



**Seats**



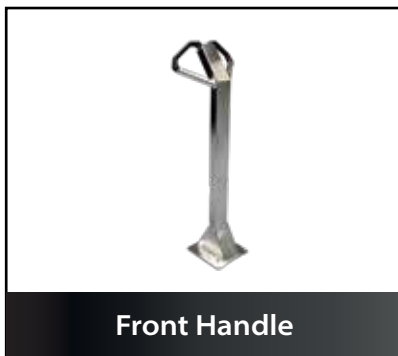
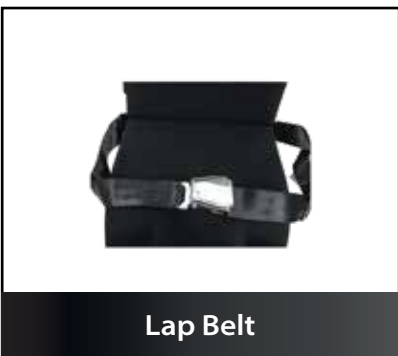
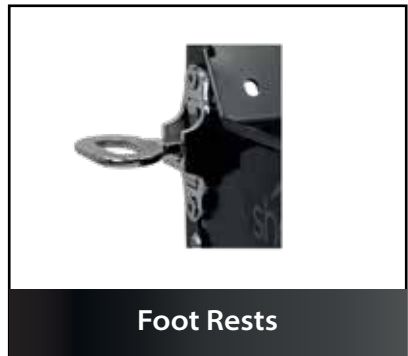
**Suspension Units**



**Plinths**



**Add-Ons**





## Q-SPD | Surface Drives

Q-SPD Surface Drives are reliable high performance propulsion solutions that are user friendly and simple to install and maintain. Q-SPD offers complete usability right through the speed range, not just at high speed and there is no need for complicated operations such as trimming the propeller to enable startup and reverse.



Q-SPD just does it, with swift acceleration, effortless cruise speeds and no undue stress on engines, boat or crew. The boat will track accurately and steering is responsive and precise. The advanced dynamic design of Q-SPD's main housing assures unequalled reverse performance whilst providing the perfect propeller ventilation mix at all times.

Q-SPD is predictably agile at low speed whilst offering increased efficiencies and fuel savings with higher cruise and sprint speeds.



## QSD 1 Series

Models	(1) Nominal Drive Weight	(2) Max Torque	Nominal Power Range Per Drive	Nominal Max Vessel Weight Per Drive	Max Prop Diameter
<b>QSD102</b>	85kg	1,100 Nm 812 lbft	134 to 330 kW 180 to 440 bhp	5,000 kg 11,000 lb	25" 635mm
<b>QSD120</b>	90kg	1,600 Nm 1,180 lbft	150 to 410 kW 200 to 550 bhp	5,000 kg 11,000 lb	26" 660mm
<b>QSD125</b>	95kg	3,200 Nm 2,210 lbft	187 to 600 kW 200 to 550 bhp	6,000 kg 13,215 lb	26" 660mm
<b>QSD130</b>	110kg	4,200 Nm 3,094 lbft	370 to 820 kW 500 to 1100 bhp	6,000 kg 13,215 lb	26" 660mm

## QSD 2 Series

<b>QSD202</b>	150kg	3,200 Nm 2,210 lbft	328 to 485 kW 440 to 650 bhp	11,000 kg 24,220 lb	31" 780mm
<b>QSD220</b>	170kg	4,200 Nm 3,094 lbft	450 to 600 kW 600 to 800 bhp	11,000 kg 24,220 lb	31" 780mm
<b>QSD230</b>	190kg	5,200 Nm 3,835 lbft	520 to 1120 kW 700 to 1500 bhp	11,000 kg 24,220 lb	31" 780mm

## QSD 3 Series

<b>QSD302</b>	280kg	5,200 Nm 3,835 lbft	560 to 900 kW 750 to 1200 bhp	17,000 kg 37,450 lb	34" 865mm
<b>QSD351</b>	320kg	8,300 Nm 6,122 lbft	600 to 1550 kW 800 to 2100 bhp	17,000 kg 37,450 lb	34" 865mm
<b>QSD360</b>	340kg	8,300 Nm 6,122 lbft	600 to 1650 kW 800 to 2200 bhp	25,000 kg 55,000 lb	40" 1016mm

## QSD 4 Series

<b>QSD400</b>	400kg	12,000 Nm 8,851 lbft	750 to 2000 kW 1000 to 2690 bhp	38,000 kg 84,000 lb	45" 1140mm
<b>QSD450</b>	450kg	17,600 Nm 12,981 lbft	1120 to 2690 kW 1500 to 3600 bhp	55,000 kg 121,000 lb	54" 1370mm

(1) Weights are nominal excluding propeller.

(2) These specifications are a guideline only. Actual application limits will depend on shaft speed, power to weight ratio and vessels speed and mission.

\*Specifications subject to change.



## GLENDINNING | Cablemaster™

The Cablemaster™ is the best way for boat owners to handle heavy shore power cable with ease! With unbeatable options like powered extension & retraction, unlimited cable length, multiple installation options, and compact designs, the Cablemaster™ continues to be the experienced boater's ultimate shore power cable handling solution.

### Cable Handling Made Simple

Any length and amperage of shore power cable handling made simple with automatic extension and retraction. Never struggle with bulky power cable again!

### Easily Accessible

Chrome hawsepipes serve as a through hull fitting to make your shore power cord easily accessible and sealed from the environment.

### Built to Last

Robust design and framework to reliably handle any size and length of shore power cable and the harsh marine environment.

The Cablemaster™ product line includes a complete line of devices for handling almost all types of portable power cables. It is divided into two categories CRMA and CM models.

## Glendinning Cablemaster | CRMA

CRMA 16/30/32



CRMA 50/63



Typical Amperage:

30 amp (US)  
16/32 amp (EU)

50 amp (US)  
63 amp (EU)

Cable Type:

16, 30 & 32 amp  
(3-4 cond.)

50 & 63 amp  
(3-4 cond.)

Retraction Voltage:

12 or 24 VDC

12 or 24 VDC

## Glendinning Cablemaster | CM4

05010 Cablemaster CM-4 12v incl. hawse pipe

05013 Cablemaster CM-4 12v incl. hawse pipe



05010

## Glendinning Cablemaster | CM7

04020 Cablemaster CM-7 12v - 4 conductors

04021 Cablemaster CM-7 12v - 3 conductors

04022 Cablemaster CM-7 24v - 4 conductors

04022-RF Cablemaster CM-7 24v - 4 conductors with filter

04023 Cablemaster CM-7 24v - 3 conductors



04022

## Glendinning Cablemaster | CM8

04091 Cablemaster CM-8 24v - incl. aluminium hawse pipe

04093 Aluminium hawse pipe

04094 CM-8 Cablemaster without hawse pipe



04091

## Glendinning Cablemaster | CM9

04097-21-24 CM-9 Power Unit 24v Only

04097-25-24 CM-9 Power Unit 24v with CM-8 Hawse Pipe (Aluminium)

04095 CM-9 Hawse Pipe (Stainless Steel)



04097-21-24

## Glendinning Cablemaster | Cable

187706 63amp Yellow Shore Cable - 3 Core - 16mm - 65ft (20m)

187708 63amp Yellow Shore Cable - 3 Core - 16mm - 100ft (30m)

94004 50amp Yellow Shore Cable - 125volt - 6/3 - per ft

94005 50amp Yellow Shore Cable - 125/250 volt - 6/4 - per ft

94006 30amp Yellow Shore Cable - 125 volt 10/3 - per ft

94007 50amp White Shore Cable - 125/250 volt - 6/4 - per ft



94005

## Storing Your Water Hose Has Never Been Easier

Glendinning offers a diverse line of automatically retractable hose reels. The reels were originally designed for the marine environment, making them robust and corrosion resistant. Glendinning hose reels are highly customisable and have already been widely used in several applications including marine, RV, and industrial. Glendinning currently manufacture reels that can handle water, pressure washer, and air hose.



## Manage your boat's water hose with the Hosemaster™!

The Hosemaster makes integrating a water hose into your vessel simpler than ever! With automatic retraction, "zero-effort" pull-out technology, and versatile mounting options, boat owners can easily keep their fresh water supply accessible at all times. With decades of experience supplying hose reels to boatbuilders, we are proud to offer the most innovative hose system on the market!

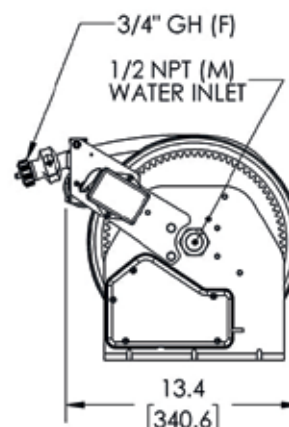
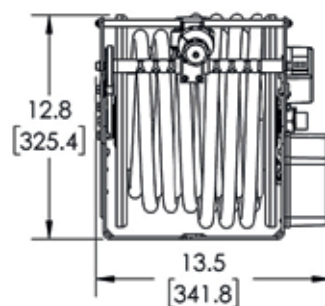


### Hosemaster™

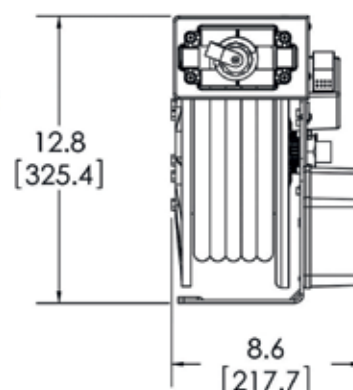
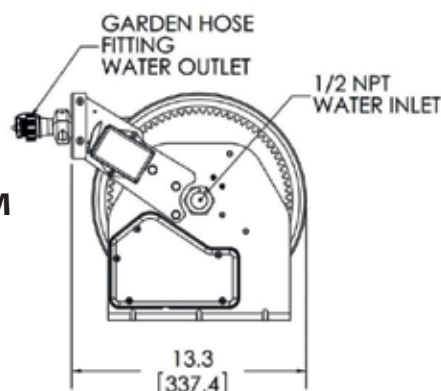
- Retract and store your water hose with ease.
- Easily pull out as much hose as you need.
- Store your water hose in the most compact way.
- Simple installation using mounting brackets and templates.
- Built to provide years of maintenance free use in any environment.

## Hosemaster™ SPECIFICATIONS

Model LW



Model M



## Glendinning Hosemaster | S Model

05550-20-E	HM-S 20' Hose & Edge Mount Bracket
05550-20-SE	HM-S 20' Hose & Side & Edge Mount Bracket

## Glendinning Hosemaster | M Model Water

05510-12-35	HM-M 35ft 150 PSI 1/2" ID Hose - 12V
05510-24-35	HM-M 35ft 150 PSI 1/2" ID Hose - 24V
05510-12-50	HM-M 50ft 150 PSI 1/2" ID Hose - 12V
05510-24-50	HM-M 50ft 150 PSI 1/2" ID Hose - 24V
05511-12-35	HM-M 35ft 150 PSI 5/8" ID Hose - 12V
05511-24-35	HM-M 35ft 150 PSI 5/8" ID Hose - 24V

## Glendinning Hosemaster | LW Model

05520-12-75	HM-LW 75ft Hose - 12V
05520-24-75	HM-LW 75ft Hose - 24V
05520-12-100	HM-LW 100ft Hose - 12V
05520-24-100	HM-LW 100ft Hose - 24V



**99582-DK**  
Deck mount chrome shower head with chrome mounting socket



**99593-DW**  
Deck wash shower head with white plastic mounting socket



**99582-REC**  
**99582-REC-SS**  
Flush mount chrome shower head with white bulkhead mount (& SS cover) mounting socket



**99582-SN**  
Flush mount white shower head with white bulkhead mount & cover



## DOMETIC SIERRA | Mechanical & Electrical

### Control Cables

CC33XXX	Black Mid Range Universal Control Cable	6 - 32ft
CCX179XX	Black TFXtreme 600A Mercury/Mercruiser Control Cable	10 - 26ft
CCX189XX	Black TFXtreme Gen II Mercury/Mercruiser Control Cable	6 - 26ft
CCX63XXX	Black TFXtreme Universal Control Cable	3 - 40ft

### Mechanical Steering Cables

SSC131XX	Light Duty Steering Cable for SH8050	8 - 20 ft
SSC134XX	Back Mount Rack Steering Cable	12 - 20ft
SSC219XX	Jet Boat Steering Cable	7 - 17ft
SSC62XX	Black Universal Quick Connect Cable	8 - 24 ft

### Mechanical Control Heads

CH5300P	MT3 Control Twin Pull/Push
CH5310P	MT3 Control Single Pull/Push
CHX8051P	Xtreme Side Mount Control Chrome c/w Engine Cut Off & Trim Switch
CHX8141P	Top Mount Chrome, Trim Switch
CHX8151P	Xtreme Single Top Mount Control Chrome Neutral Interlock on Handle
CHX8241P	Xtreme DualTop Mount Chrome Trim Switch (No Neutral Interlock Handle)
CHX8351P	Xtreme Centre Console (Port Mount) Chrome Engine Cut Off/Trim Swtch
CHX8551P	Xtreme Side Mount Control Black with Eng Cut Off & Trim Switch
CHX8651P	Xtreme Single Top Mount Control Black Neutral Interlock on Hndle
CHX8741P	Xtreme Dual Top Mount Black Trim Switch (No Neutral Interlock Handle)
CHX8851P	Xtreme Centre Console (Port Mount) Black Engine Cut Off/Trim Switch



CH5310P



CHX8151P



CHX8351P



CHX8741P

## Mechanical Control Parts

207573	Dual Station Unit for Gear Shifting (was 172220)
300646	Eye Terminal Nylon 30 Series
300965	Pivot Pin 30 Series
301074	Adaptor Kit 33C
301916	DC Control
317413	Eye Terminal Metal 30 Series
7206216	Trailer Tilt Switch (CH18000 Hybrid Control)
CA27024P	Universal 3300 Kit Inboards
CA27319P	Adapter Kit 3300/MERC I/B, O/B (Old part no 301901/195014)
CA27320P	Adaptor Kit 3300/OMC
CA27321P	Adaptor Kit J/E OMC O/B Pre-1978
CA28018P	Clamp & Shim 4300
CA68075P	Neutral Start Switch
CA69027P	Electric Shift Converter SIERRA



SH4951P



SH91610P



SH91800P



SH91900P

## Mechanical Steering Parts

SA27253P	Splashwell Kit 15deg Mount
SA27454P	Steering Wheel Hardware Kit
SA27591P	Merc Clevis Connection Kit
SA27620P	QC II Adaptor
SA35680P	Spent Travel Tube - Safe-T/Big-T
SA38603P	Spent Travel Tube - NFB
SA39329P	Cable Guard
SB27150P	90 deg NFB Black Bezel
SB27484P	90 deg Black Bezel
SB39526P	90 deg Black Rack Bezel
SBX76061P	Xtreme 90deg NFB Bezel Only
SH4910P	4.2 NFB Helm
SH4951 P	4.2 Helm non NFB Single Cable
SH4971P	4.2 non NFB Single Tilt Helm
SH5094-1P	Safe-T Quick Connect Helm (single)
SH5150P	Safe T II NFB Helm
SH5210P	Back Mount Rack Helm
SH8050-1P	Light Duty Helm & Bezel
SH91190P	Safe T II NFB Tilt Helm
SH91523-1P	Safe-T Tilt Helm (Quick Connect) (Single)
SH91526P	NFB 4.2 Tilt Helm
SH91610P	Back Mount Tilt Helm
SH91800P	Sport Tilt Mechanism
SH91900P	Pro Sport Plus Tilt Mechanism
SHX97606P	Xtreme Tilt NFB Helm

## Sierra Electrical (Fuses)

BS11040	Voltage Sensitive Relay (VSR)
CB41210B	Push Button Reset Circuit Breaker 10A
CB41250	Push Button Reset Circuit Breaker 25A
CB41260	Push Button Reset Circuit Breaker 30A
CB41270	Push Button Reset Circuit Breaker 45A
CB50610	Circuit Breaker Panel Mount 40A
CB50620	Circuit Breaker Panel Mount 50A
CB50630	Circuit Breaker Panel Mount 60A
CB50640	Circuit Breaker Panel Mount 80A
CB60000-1	Circuit Breaker 60amp
FS35870	ATO/ATC Style Fuse Holder
FS40810	408 Series Ground Bus Bar 12 Terminal w/Cover
FS40830	408 Series Fuse Block 6 Gang w/Bus Bar & Cover
FS40840	408 Series Fuse Block 12 Gang w/Bus Bar & Cover
FS46540	Terminal Stud Single HD M10
FS46570	Terminal Stud Single HD M8
FS46700	Bus Bar 150A Common 12 Gang w/Cover
FS81010	MAXI Fuse 30amp
FS81020	MAXI Fuse 40amp
FS81030	MAXI Fuse 50amp
FS81040	MAXI Fuse 60amp
FS81080	MAXI Fuse Block
FS82020	ANL Fuse 150amp
FS82030	ANL Fuse 200amp
FS82040	ANL Fuse 250amp
FS82050	ANL Fuse 300amp
FS82060	ANL Fuse 350amp
FS82070	ANL Fuse 400amp



CB50630



FS40830



FS46540



FS46700

## Sierra Electrical Switches

FT7000P	Foot Throttle with Adjustable Slider Base Plate
RK19400-1	Standard Weather Resistant Rocker Switch OFF-ON SPST
RK19410-	RED Standard Weather Resistant Rocker Switch OFF-MOM ON SPST Red Act for Horn
RK19410-1	Standard Weather Resistant Rocker Switch OFF-MOM ON SPST
RK19420-1	Standard Weather Resistant Rocker Switch ON-OFF-ON SPDT
RK19430-1	Standard Weather Resistant Rocker Switch MOM ON-OFF-MOM ON SPDT
RK19480-1	Standard Weather Resistant Rocker Switch MOM ON-OFF-MOM ON DPDT
RK19700	Illuminated Weather Resistant Rocker Switch BLK OFF-ON SPST
RK19740	Illuminated Weather Resistant Rocker Switch BLK ON-OFF-ON SPDT
RK19780	Illuminated Weather Resistant Rocker Switch BLK MOM ON-OFF-ON SPDT
RK19820	Illuminated Weather Resistant Rocker Switch BLK MOM ON-OFF-ON DPDT
RK19840	Illuminated Weather Resistant Rocker Switch BLK ON-OFF-ON DPDT
RK19910	Illuminatd Weather Resistant Rocker Switch BLK OFF-ON DPST
RK19930-1	Standard Weather Resistant Rocker Switch MOM ON-OFF-ON DPDT
RK19940-1	Standard Weather Resistant Rocker Switch OFF-MOM ON DPST
RK22290	Removal Tool
UN19710	Rocker Switch Mounting Bracket - One Centre Section
UN19720	Rocker Switch Mounting Bracket - Two End Sections
UN19750	Rocker Switch Mounting Bracket Kit 2 End-1 Centre-1 Blank Cover Sects

# SAVIOR BATTERY CASES

Savior Battery Cases and Trays are built to be the highest-performing and most stylish battery protection solutions available.

Shock and vibration are two of the biggest culprits behind early battery failure—especially on boats, which lack suspension systems to cushion batteries from pounding waves and intense engine vibrations. That's why Savior Battery Cases and Trays are a smart upgrade for any boat, big or small.

When you install a Savior Battery Case or Tray, you're not just securing your battery—you're protecting your power source with world-class technology you can count on every time you hit the water.

## SAVIOR | Battery Cases

PC-27-R	Pro Case   Group 27   Red Wrinkle
PC-034-R	Pro Case   Optima 34   Red Wrinkle
PC-034-Y	Pro Case   Optima 34   Yellow Wrinkle
PC-OD34-R	Pro Case   Odyssey 34   Red Wrinkle
PL-27-U	Pro-Lite Case   Group 27   Unpainted
PL-034-U	Pro-Lite Case   Optima 34   Unpainted
PL-OD34-U	Pro-Lite Case   Odyssey 34   Unpainted
SC-27-R	Show Case   Group 27   Red Sparkle
SC-034-R	Show Case   Optima 34   Red Sparkle
SC-034-Y	Show Case   Optima 34   Yellow Sparkle
SC-OD34-R	Show Case   Odyssey 34   Red Sparkle



# STINGRAY HYDROFOILS

Stingray hydrofoils are engineered to boost boat performance by enhancing lift, stability, and efficiency. They function by channelling and compressing water around the propeller, effectively enlarging the cavitation plate and refining hydrodynamic flow. This design helps minimise common issues like chine walking, porpoising, cavitation, and ventilation. The result? Faster planing, the ability to stay on plane at lower speeds, improved handling, better fuel economy, and a smoother, more stable ride.

## STINGRAY | Hydrofoils

AIRO-1	Stingray Airo Hydrofoil
JR-1	Stingray Classic Junior Hydrofoil
JR2-1	Stingray Classic 2 Junior Hydrofoil
JR-XR111-1	Stingray JR-XR111 Hydrofoil
SR-1	Stingray Classic Senior Hydrofoil
SR2-1	Stingray Classic 2 Senior Hydrofoil
SR-PRO-1	Stingray Classic Pro Hydrofoil
SR-XR4-1	Stingray XR4 Hydrofoil
STARFIRE-1	Stingray Starfire Hydrofoil
STINGER-1	Stingray Stinger Hydrofoil









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*Version 5.25*