HYDRODRIVE®

Hydraulic Steering Systems

- Outboard Hydraulic Steering Systems
- Inboard Hydraulic Steering Systems
- Stern-Drive Systems





2022

OUR TECHNOLOGY

Techno Italia is manufacturer of hydraulic steering systems branded **Hydrodrive**®. Our range has outboard applications up to 400Hp and Inboard/Stern-Drive applications for boats up to 16 m (52'). We have also hydraulic steering systems for **racing boats**, **sail boats and catamarans.** We do also manufacture **hydraulic stick steering** systems and we are able to manufacture special steering system upon client requirement.

Good things come in threes. And we are motivated by our **THREES** philosophy which makes Hydrodrive Hydraulic Steering Systems different from other competitors.

T as technology

Hydrodrive HSS are manufactured using technology from the **aviation industry**. The pump house comes from a single aluminum block, hardened and hot-pressed. The 10 mm thickness and the special material prevent leakage or oil film/fog formation even under extremely high working pressure. The 3 ball bearings in the pump ensure the outstanding precision and exceptionally smooth, consistent functioning. Each pump house is anodized and due to the surface treatment is resistant to the highly corrosive effects of sea.

The cylinders are also made of cold drawn, hardened aluminum. The thick-walled cylinder is made of a special raw material with even higher tensile strength than the traditional bronze therefore tolerates high working pressure. As the pump house, also all the cylinders and parts are anodized and are resistant to the salt corrosion.

H as history

The Gobbo family has more than 50 years of experience in the hydraulic systems. Specialized in the manufacturing of hydraulic system for the aircraft industry, the company in the past has supplied players as Fiat-Avio, Agusta and Rolls Royce. That sense of purpose and mission has been always part of the Gobbo family's culture. The years of compassionate work are now the heritage for the future challenges: we look for new opportunities in technology while retaining the key traditional elements.

• **R** as reliability

There is no reliability without quality, and **quality is our benchmark**. We like to emphasize we are so sure about our quality, and we are so confident with it that we give **3 years of warranty**. Our data show the percentage of our Hydrodrive HSS replaced within the first 3 years is less than 0.1% and within the first 5 years is less than 0.3%. The **durability average** of our system **is more than 8 years without maintenance**.



EE as environmentally engineered **PLASTIC FREE**



Techno Italia has a simple but clear purpose: to make sustainable products, generating the gratitude of the other. All the Hydrodrive® HSS are designed to have the less impact on environment. Have you ever wondered how many liters of oil are used filling any hydraulic steering system? And how many times do they have to be refill during their lifetime? The figure will shock you. Can you imagine what it would be like if we all could give the best of ourselves? We are convinced that if we can imagine it, then it can be done! For this Hydrodrive® HSS is the only steering system that after the first filling doesn't require any refill for the entire life. All of our helms and main parts of our HSS are plastic free and totally recyclable. Considering our average of durability, we give a concrete help to our planet. We think this should be the best long-term way for the business to grow.

S as simplicity

Simplicity is our mantra. More simple and easy a product is more efficient will be. All the steering kits come all in one: pump house, cylinder, oil, hose set by made on twin hydraulic high-pressure tube, already with fittings. You don't have to do anything else than just install the pump and the cylinder, fixing the hose set and fill the system; all systems are with fast-fit connection and compatible with the main applications on market.

Saving time in the installing means save money, and we like make the end user's life as easy as possible.

Hydrodrive® HSS stands for high level quality, and we are proud to produce one of the up-to-date hydraulic steering system. We like to emphasize that we do what we say.









Made in EU ISO 10592





OUR **MODELS:**

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Hydraulic Outboard Systems	Max power	Anti-Feedback/ Autopilot port.
MF75W	75 HP	-
MF90W	90 HP	-
MF115 MRA	120 HP	Yes
MF175W	175 HP	Yes
MF350W plus	350 HP	Yes
MF350W SP RACING	350 HP	Yes
MF255WTS-TDF	250+250 HP	Yes
MF350W-TDF	300+300 HP	Yes
MF175 WTS (Slide cylinder)	175 HP	Yes
MF255-WTS (Slide cylinder)	250 HP	Yes
MF400-WTS (Slider cylinder)	400 HP	Yes



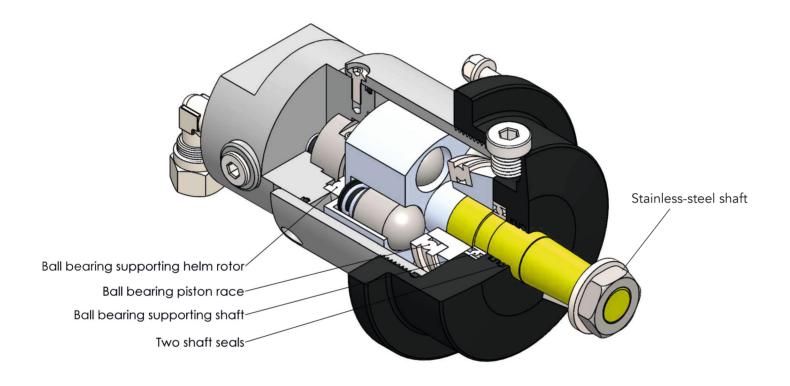
Hydraulic Inboard Systems	Max boat length	Anti-Feedback/
		Autopilot port.
MU50TF	10 m. (33 ft.)	-
MU50TF-MRA	10 m. (33 ft.)	Yes
MU75TF	12 m. (40 ft.)	-
MU75TF-MRA	12 m. (40 ft.)	Yes
MU100TF	16 m. (52 ft.)	-
MU100TF-MRA	16 m. (52 ft.)	Yes
Stern-Drive Systems		
MSD70TF	12 m. (40 ft.)	-
MSD70TF-MRA	12 m. (40 ft.)	Yes



Hydrodrive®

Outboard Systems

COMFORT LINE



TL1-16 MRA Hydraulic Pump

Applications for all type of engines up to 175 HP



Steering System kit up to 75Hp



New technology of Hydraulic Steering System, for small engines up to 75Hp

Output Force: 220 kgf. (485 lbf) Torque: 46 Kgm. (333 lbf-ft)

Max Speed: 30 kts.

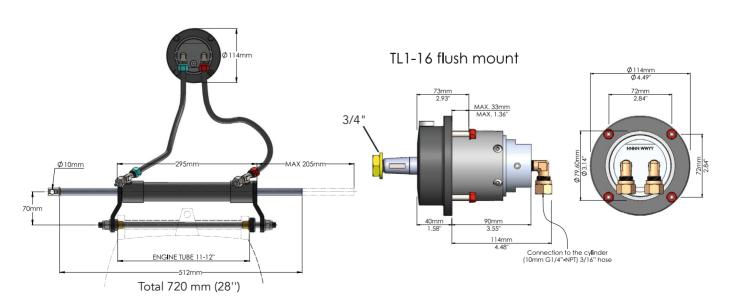
Turns: 4,4

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install

Kit contains:

TL1-16 Hydraulic Pump	16cc./rev	Max 60 bar	with Fittings installed	-
MC75W Hydraulic Cylinder	68 cc.vol	Max 60 bar	with Fittings installed	Stroke 202 mm
High pressure hose set	5/16 twin	B.P. 380 bar	with Fittings installed	Twin 4+4 m (13')
HROL - Hydraulic Oil	1 L bottle	E-HVLP 46	Temp: +60/-30	-

Engine Arm not included (optional if request)





Steering System kit up to 90Hp



New technology of Hydraulic Steering System, for engines up to 90Hp

Output Force: 236 kgf. (520 lbf) Torque: 50 Kgm. (362 lbf-ft)

Max Speed: 35 kts.

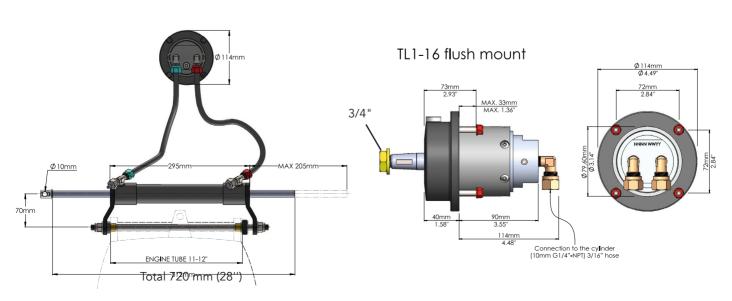
Turns: 4,5

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install

Kit contains:

TL1-16 Hydraulic Pump	16cc./rev	Max 70 bar	with Fittings installed	-
MC90W Hydraulic Cylinder	71 cc.vol	Max 70 bar	with Fittings installed	Stroke 210 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 4,5+4.5 m (15')
HROL - Hydraulic Oil	1 L bottle	E-HVLP 46	Temp: +60/-30	-

Engine Arm not included (optional if request)



MF115 MRA

Steering System kit up to 120Hp



New technology of Hydraulic Steering System, for engines up to 120Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 236 kgf. (520 lbf) Torque: 50 Kgm. (362 lbf-ft)

Max Speed: 50 kts.

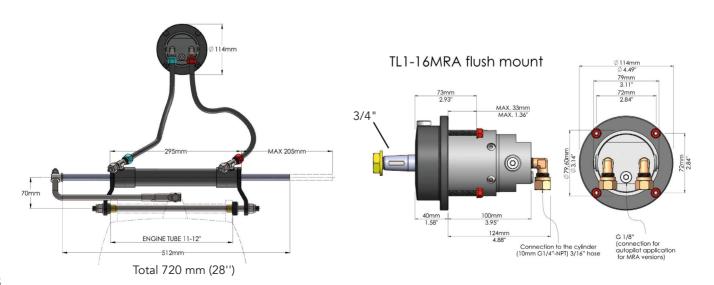
Turns: 4,5

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install

Kit contains:

TL1-16 MRA Hydraulic Pump	16cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC115W Hydraulic Cylinder	71 cc.vol	Max 80 bar	with Fittings installed	Stroke 210 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 5+5 m (16')
HROL - Hydraulic Oil	1 L bottle	E-HVLP 46	Temp: +60/-30	-

Engine Arm with fork included - Universal application - Adjustable



MF175W

System kit up to 175Hp Cylinder with two position engine plate



New technology of Hydraulic Steering System, for engines up to 175Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 290 kgf. (640 lbf) Torque: 60 Kgm. (434 lbf-ft)

Max Speed: 55 kts.

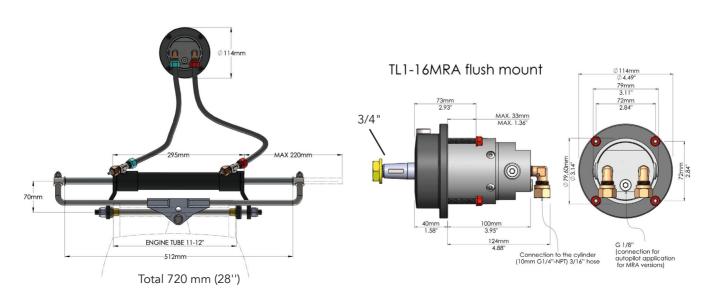
Turns: 5,4

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install

Kit contains:

TL1-16 MRA Hydraulic Pump	16cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC175W Hydraulic Cylinder	86 cc.vol	Max 80 bar	with Fittings installed	Stroke 208 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 6+6 m (20')
HROL - Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-

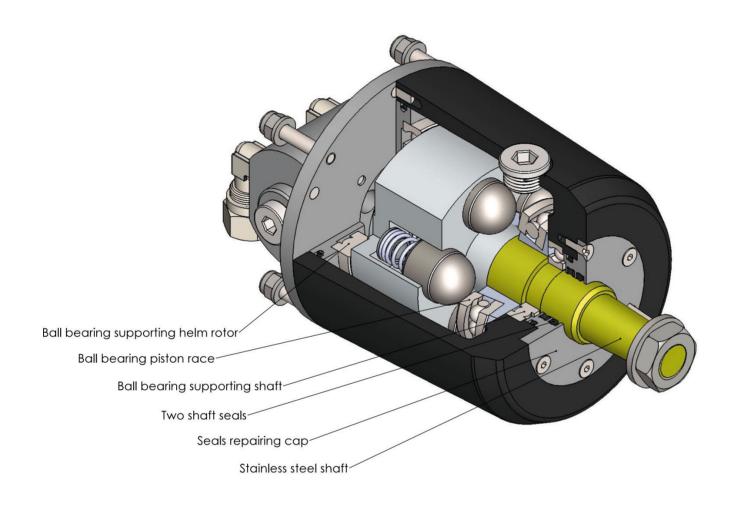
New Stainless Steel Engine Arm included - with Two Positions Engine Plate



Hydrodrive®

Outboard Systems

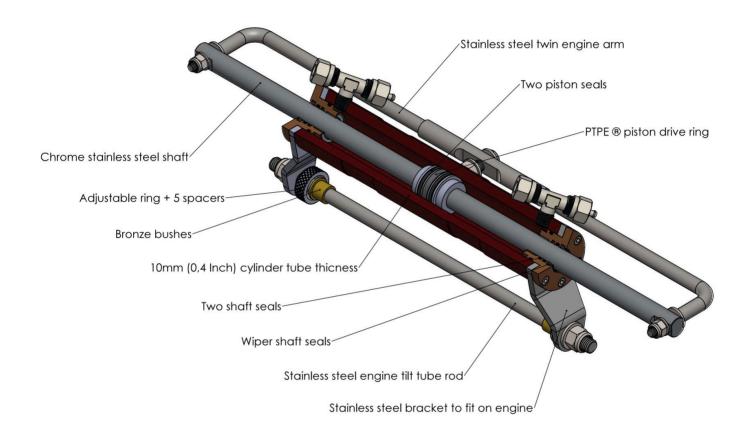
PERFORMANCE LINE



TL2-30 MRA Pump

Applications for all type of engines up to 400 HP

Hydrodrive® Hydraulic Steering System is supplier of the Hungarian Powerboat Federation



MC350W Cylinder

Hydrodrive® Hydraulic Steering System has equipped Soffio, racing boat Endurance Group B Class S1. Soffio is the winner of the stage Salerno-Formia of the race Venice-Montecarlo.

Arrived second at the European Championship Endurance in Chioggia.

Arrived second at the World Championship Endurance in Forio.

MF175 WTS

Steering System kit up to 175Hp with slider cylinder



Steering system, compact horns mount for engines up to 175Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 290 kgf. (640 lbf) Torque: 60 Kgm. (434 lbf-ft)

Max Speed: 55 kts.

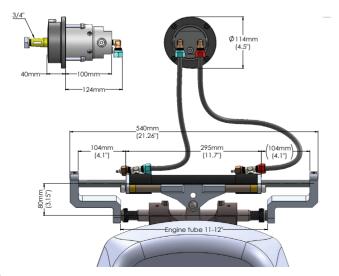
Turns: 5,4

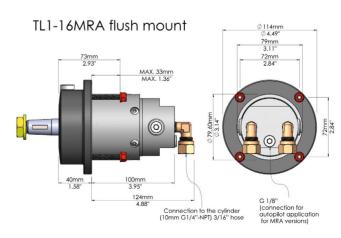
- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install
- New Cutting-Edge Technology fixing system

Kit contains:

TL1-16 MRA Hydraulic Pump	16 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC175WTS Hydraulic Cylinder	86 cc.vol	Max 80 bar	with Fittings installed	Stroke 208 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 6+6 m (20')
HROL - Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-

New easy mounting system - Cylinder with two position engine plate





MF255 WTS

Steering System kit up to 250Hp with slider cylinder



Steering system, compact horns mount for engines up to 250Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 422 kgf. (930 lbf) Torque: 88 Kgm. (637 lbf-ft)

Max Speed: 55 kts.

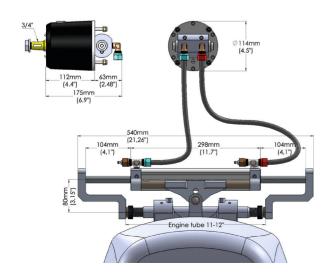
Turns: 4,5

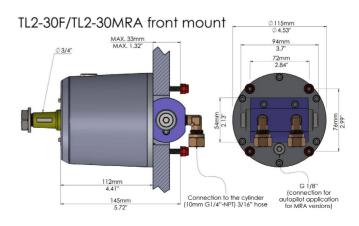
- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Application for all type of engines
- Extremely easy to Install
- New Cutting-Edge Technology fixing system

Kit contains:

TL2-30 MRA Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC255WTS Hydraulic Cylinder	125 cc.vol	Max 100 bar	with Fittings installed	Stroke 206 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 6+6 m (20')
HROL - Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-

New easy mounting system - Cylinder with two position engine plate





MF400 WTS

Steering System kit up to 400Hp with slider cylinder



Steering system, compact horns mount for engines up to 400Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 700 kgf. (1543 lbf) Torque: 146 Kgm. (1056 lbf-ft)

Max Speed: 60 kts.

Turns: 5,3

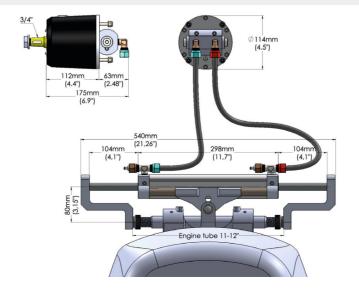
High Precision Pump with Purge Valve fittings

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Universal application for all type of engines
- Extremely easy to Install

Kit contains:

TL2-40SP MRA Hydraulic Pump	38 cc./rev	Max 100 bar	with Fittings installed	Lock-Valve
MC400WTS Hydraulic Cylinder	208 cc.vol	Max 100 bar	with Fittings installed	Stroke 208 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 7+7 m (23')
HROL - Hydraulic Oil	3x1 L bottle	E-HVLP 46	Temp: +60/-30	-

New easy mounting system - Cylinder with two position engine plate





MF350W plus / MF350W-SP

Steering System kit up to 350Hp



New technology of Outboard Hydraulic Steering System, for engines up to 350Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

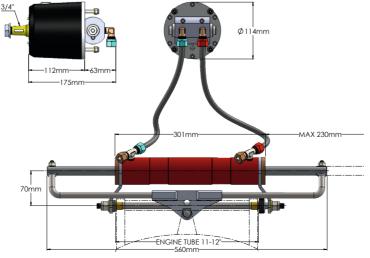
MF350W Specification:

- Output Force: 495 kgf. (1090 lbf)
- Torque: 102 Kgm. (738 lbf-ft)
- Max Speed: 60 kts.
- Turns: 5,2

MF350W-SP Specification (Racing):

- Output Force: 495 kgf. (1090 lbf)
- Torque: 102 Kgm. (738 lb-ft)
- Max Speed: 75 kts.
- Turns: 3,8
- High Precision Pump with Purge Valve fittings
- New Stainless Steel Engine Arm included with Two Positions Engine Plate

TL2-30 MRA Hydraulic Pump- for MF350W plus	28 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
TL240SP-MRA Hydraulic pump for MF350W-SP	38 cc./rev	Max 100 bar	with Fittings installed	Lock-Valve (for racing)
MC350-W Hydraulic Cylinder	146 cc.vol	Max 100 bar	with Fittings installed	Stroke 206 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 7+7 m (23')
Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-



Total 720 mm (28")

MF350W-TDF

Steering System kit, for double engines twin cylinder (max 300Hp + 300Hp)



New technology of Outboard Hydraulic Steering System, for engines up to 300Hp + 300Hp

with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 2x495 kgf. (2x1090 lbf) Torque: 2x102 Kgm. (2x738 lbf-ft)

Max Speed: 75 kts.

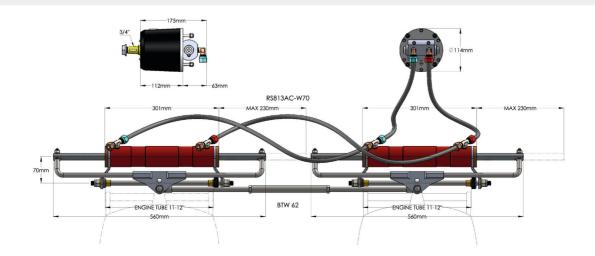
Turns: 7,2

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- Application for all type of engines
- Extremely easy to Install
- High pressure hose set (1700 PSI-120 bar)
- High precision pump with Purge Valve Fittings

Kit contains:

TL2-40SP MRA Hydraulic Pump	38 cc./rev	Max 100 bar	with Fittings installed	Lock-Valve
2xMC350W Hydraulic Cylinder	146 cc.vol	Max 100 bar	with Fittings installed	Stroke 206 mm
BTW 62 Adjustable Tie bar	540-620 mm	(Option BTW	70 Adjustable Tie bar 62	20-700 mm)
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 7+7 m (23')
Hose set	5/16 twin	B.P. 480 bar	with fittings installed	Twin 0,75 + 0,75m (2,5')
Hydraulic Oil	3x1 L bottle	E-HVLP 46	temp: +60/-30	

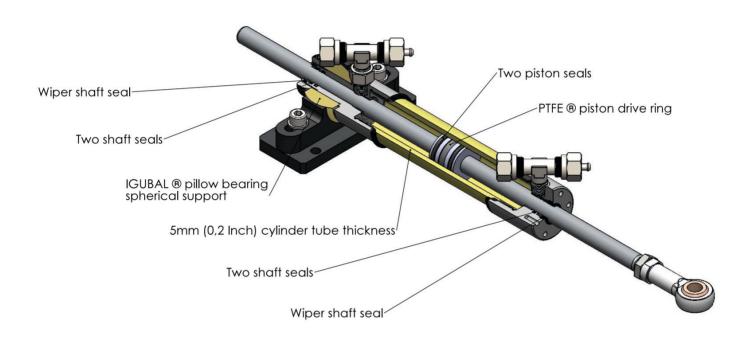
New Stainless Steel Engine Arm included - with Two Positions Engine Plate



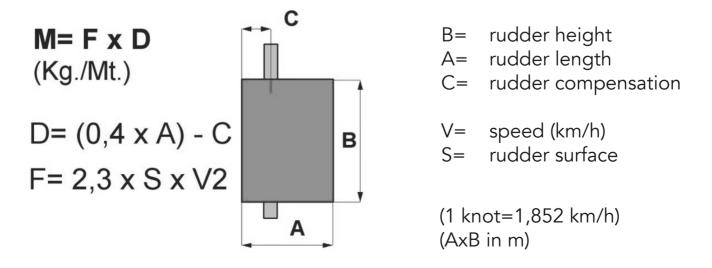
Hydrodrive®

Inboard Systems

Complete range for boats up to 16 m (52 ft)



Calculation of the rudder torque M (kg./m)





MU50TF / MU50TF-MRA

Steering System kit for boats up to 10 m (33Ft)



New technology of Inboard Hydraulic Steering System, for boats up to 10 m (33Ft)

MRA version is: with Anti-Feedback Valve Automatic Pilot Connection Port

Output Force: 387 kgf. (853 lbf) Torque: 58 Kgm. (420 lbf-ft)

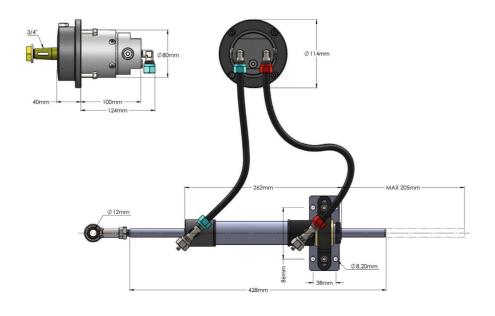
Max Speed: 35 kts.

Turns: 5

- Auto lubricating IGUBAL® Spherical bearing support
- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High pressure hose set (1700 PSI-120 bar)
- Universal application
- Extremely easy to Install

Kit cont	tains:
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TL1-16 Hydraulic Pump	16 cc./rev	Max 70 bar	with Fittings installed	-
TL1-16 MRA Hydraulic Pump	16 cc.vol	Max 70 bar	with Fittings installed	Lock-Valve
MC50 Hydraulic Cylinder	83 cc vol.	Max 70 bar	with Fittings installed	Stroke 150 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 5+5 m (16')
Hydraulic Oil	1 L bottle	E-HVLP 46	temp: +60/-30	-



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MU75TF / MU75TF-MRA

Steering System kit for boats up to 12 m (40Ft)



New technology of Inboard Hydraulic Steering System, for boats up to 12 m (40Ft). Universal application,

MRA version is: with Anti-Feedback Valve Automatic Pilot Connection Port

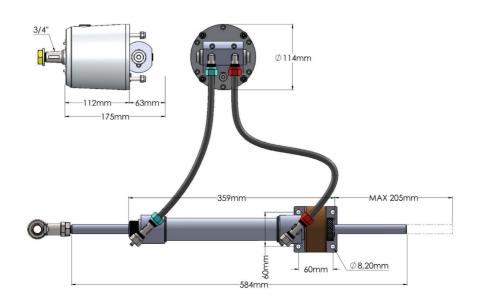
Output Force: 354 kgf. (780 lbf) Torque: 80 Kgm. (579 lbf-ft)

Max Speed: 45 kts.

Turns: 4

- Auto lubricating IGUBAL® Spherical bearing support
- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Extremely easy to isntall

TL2-30 Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	-
TL2-30 MRA Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC75 Hydraulic Cylinder	114 cc.vol	Max 80 bar	with fittings installed	Stroke 225 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 7+7 m (23')
Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-





MU100TF / MU100TF-MRA

Steering System kit for Sailing boats up to 16 m (52Ft)



Special Hydraulic Steering System for Sailing boats up to 16 m (52Ft). High precision, not back-lash on wheel.

MRA version is: with Anti-Feedback Valve Automatic Pilot Connection Port

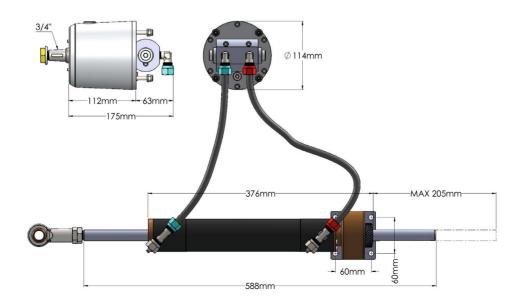
Output Force: 495 kgf. (1091lbf) Torque: 112 Kgm. (810 lbf-ft)

Max Speed: 45 kts.

Turns: 5,7

- Auto lubricating IGUBAL[®] Spherical bearing support
- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)

TL2-30 Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	-
TL2-30 MRA Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC1000 Hydraulic Cylinder	160 cc.vol	Max 100 bar	with fittings installed	Stroke 225 mm
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 8+8 m (26')
Hydraulic Oil	3x1 L bottle	E-HVLP 46	Temp: +60/-30	-





MSD70TF / MSD70TF-MRA

Steering System kit for boats up to 12 m (40Ft)

Stern-Drive application



New technology of Inboard Hydraulic Steering System, for boats up to 12 m (40Ft)

MRA version is: with Anti-Feedback Valve Automatic Pilot Connection Port

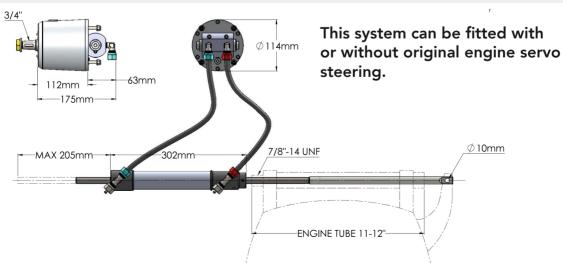
Output Force: 387 kgf. (853 lbf) Torque: 78 Kgm. (564 lbf-ft)

Max Speed: 55 kts.

Turns: 4

- Pump made from full block hardened aluminium
- Cylinder made from cold drawn, hardened aluminium
- High Pressure Hose Set (1700 PSI-120 bar)
- Universal application
- Stainless-Steel fixing system
- One side hose fittings

TL2-30 Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	-
TL2-30 MRA Hydraulic Pump	28 cc./rev	Max 80 bar	with Fittings installed	Lock-Valve
MC70 Hydraulic Cylinder	112 cc.vol	Max 80 bar	with fittings installed	Stroke 202 mm
Extension Rod	1x 320 mm (12,6")	1x 400 mm (13,7")	-	-
High pressure hose set	5/16 twin	B.P. 480 bar	with Fittings installed	Twin 6+6 m (20')
Hydraulic Oil	2x1 L bottle	E-HVLP 46	Temp: +60/-30	-





Hydraulic Pumps



TL1-16 MRA



TL2-30



TL2-30 MRA



TL2-40SP MRA



Pumps: Description:		Application:	Application:		
	Outboard	Inboard	Auto Pilot port:		
TL1-16	16 cc pump	MF75W, MF90W	MU50TF	No	
TL1-16 MRA	16 cc pump	MF115 MRA, MF175W, MF175WTS	MU50TF-MRA	Yes	
TL2-30	28 cc High precision pump	-	MU75TF, MU100TF, MSD70TF	No	
TL2-30 MRA	28 cc High precision pump	MF255WTS, MF350W	MU75TF-MRA MU100TF-MRA MSD70TF-MRA	Yes	
TL2-40SP MRA	38 cc High precision pump	MF350W-SP MF350W-TDF MF400 WTS	-	Yes	



Hydraulic Cylinders







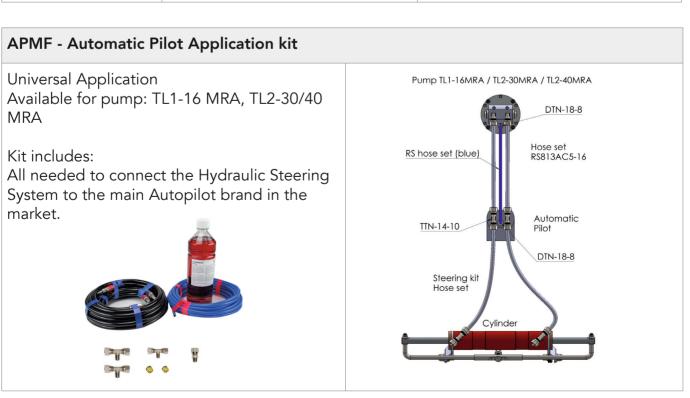
Cylinders: Stroke:		Application:	Application:	
		Outboard	Inboard	
MC75W	202 mm	MF75W	-	68 cc.
MC90W	210 mm	MF90W	-	71cc.
MC115W (single engine)	210 mm	MF115 MRA	-	71 cc.
MC175W (Twin Arm)	208 mm	MF175W	-	86 cc.
MC175 WTS (Horns)	208 mm	MF175 WTS	-	86 cc.
MC255 WTS (Horns)	206 mm	MF255 WTS	-	125 cc.
MC400 WTS (Horns)	208 mm	MF400 WTS	-	208 cc.
MC350W (Twin Arm)	206 mm	MF350W, MF350W-SP, MF350W-TDF	-	146 cc.
MC50	150 mm	-	MU50TF, MU50TF-MRA	83 cc.
MC70	202 mm	-	MSD70TF, MSD70TF-MRA	112 cc.
MC75	225 mm	-	MU75TF, MU75TF MRA	114 cc.
MC1000	225 mm	-	MU100TF, MU100TF-MRA	160 cc.



Fittings and Accessories

Seals repairing kit for TL1 pumps series	Seals repairing kit for TL2 pumps series	Seals repairing kit for Cylinders
Kit includes: All seals, ball bearings, bushes, screws, nut and all parts needed to repair the pump.	Kit includes: All seals, ball bearings, bushes, screws, nut and all parts needed to repair the pump.	Kit includes: All seals, bushes, screws, nut and all parts needed to repair the cylinder.

EBE-01	EXTGTN-14-10	RT68BU6
HYDRODRIVE O		
Engine bracket extension for all outboard engines. Screws included	90° elbow extension fitting for TL1 and TL2 pumps series. 1/4" fittings	Hose set for Autopilot connection and for double station pumps length: 6 m (20')





Fittings and Accessories

724.0014	TTN-10/TTN-8	TTN-14-10/TTN-18-8	GTN-14-10/GTN-18-8
Tee fitting	Tee Fitting	Tee fitting	Elbow fitting (90°)
1/4-10 mm	3 ways	1/4-10 mm, 8 mm	1/4-10 mm
Purge Valve	10 mm tube	Cylinder application	Pump application
Cylinder application	8 mm tube	Autopilot application	G1/8-8 mm tube
	Hose connection		Autopilot Application

AC516	DTN-14-10/DTN-18-8	9460.00.004	97.40.00
5/16-10 mm Hose set application Hose set end fitting	Straight fittings DTN-14-10: G 1/4"-10 mm tube DTN-18-8:	10 mm straight connection fitting Hose extension application (AC516)	Olive 10 mm fittings application 98.40.00: 8 mm
	G 1/8"-8 mm tube	Cation (ACS 10)	70.40.00: 0 MM



Twin hose set

(with fittings)

Personalized lenght on request

Standard sets:

- RS813AC-W70, twin 0,75 m
- RS813AC4-13, twin 4 m (13')
- RS813AC5-15, twin 4,5 m (15')
- RS813AC5-16, twin 5 m (16')
- RS813AC6-20, twin 6 m (20')
- RS813AC7-23, twin 7 m (23')
- RS813AC8-26, twin 8 m (26')
- RS813AC10-33, twin 10 m (33')



Extension twin hose set

(to extend the hose set lenght)



Hose set supplied with 2 x 9460.00.004 (straight connector fittings) and personalized hose lenght

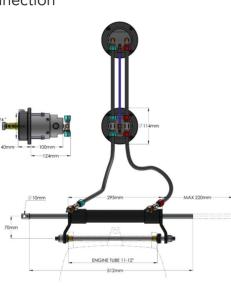


Fittings and Accessories

TL1-16 MRA-DSSecond station kit

Hose set

TL1-16 MRA-T Pump with Tee Fittings 5 m (16') twin hose set Fittings 1/8" 1 l bottle of Hydraulic Oil Pumps connection

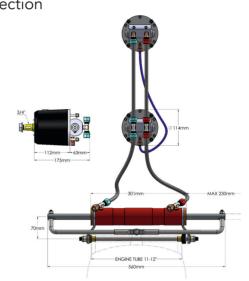


TL2-30/40 MRA-DS

Second station kit

Hose set

TL2-30/40 MRA-T Pump with Tee Fittings 7-8 m (23Ft-26Ft) twin hose set Fittings 1/8"
2 I bottles of Hydraulic Oil Pumps connection



BTW62, BTW70 Adjustable Tie Bar



Suitable for MF350W-TDF or twin engine application

BTW62: 540-620 mm, BTW70: 620-700 mm

BR72 Adjustable Engine Arm



Fork connection Standard on the model MF115 MRA Option for MF75W and MF90W

MRA Line





Lock-Valve for In line mounting applications, kit includes twin hose set of 0,75m+0,75m and fittings

SYN-MRA Line





Synchronization and Lock-Valve for Catamarans - two cylinders, kit includes twin hose set of 0,75m+0,75m and fittings



Steering Wheels

16000-VOB (black)	16000-VOR (red)	Description:
		 Material: Megol leather effect Spokes: PP Carbon effect Diameter: 280 mm (11")
16020-VRB (black)	16010-VRW (white)	Description
		 Megol-Polished Stainless Steel spokes Aluminium hub 16020-VRB: 350 mm (13,8") black 16020-VRW: 350 mm (13,8") white 16020-VRB: 400 mm (15,8") black 16020-VRW: 400 mm (15,8") white
16100-HDS37, 16100-HD)S42	Description
	HYDRODRIVE	 Material: Stainless-Steel Aluminium hub Diameter: 370 mm (13,4") Diameter: 420 mm (16,5") Connection: Standard 3/4" taper Shape: 15 Degree Grip: Stainless Steel
16121-VSB		Description
	THE COLUMN TO TH	 Material: Polyurethane - Polished Stainless-Steel Aluminium hub Diameter: 350 mm (13,8") Polished Stainless steel spokes
16100-HEE		Description
	(Process)	 Material: Anodized Aluminium soft PU foam Aluminium hub Diameter: 350 mm (13,4") Soft grip for control and comfort





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