

# Hydrodrive

## High Quality Steering Systems



Price List **2020-02** (valid from April 2020)

**SRP** (suggested retail prices)



### Hydraulic Steering Systems - Outboard application (complete kit)

System	engine power (max.)	output force	torque	max. speed	turns	pump	anti-feedback valve	cylinder	hose set	oil	price
<b>MF75W</b>	75 HP	220 Kgf.	46 Kgm.	30 Kts.	4,4	TL1-16	no	MC75W	4+4m 13' twin	1 Lt.	€ 399,00
<b>MF90W</b>	90 HP	236 Kgf.	50 Kgm.	35 Kts.	4,5	TL1-16	no	MC90W	4,5+4,5m 15' twin	1 Lt.	€ 422,00
<b>MF115MRA</b>	120 HP	236 Kgf.	50 Kgm.	50 Kts.	4,5	TL1-16 MRA	yes	MC115W	5+5m 16' twin	1 Lt.	€ 476,00
<b>MF175W new</b> (ex MF155W)	175 HP	290 Kgf.	60 Kgm.	55 Kts.	5,4	TL1-16 MRA	yes	MC175W	6+6m 20' twin	2 Lt.	€ 540,00
<b>MF350W plus</b>	350 HP	495 Kgf.	102 Kgm.	60 Kts.	5,2	TL2-30 MRA	yes	MC350W	7+7m 23' twin	2 Lt.	€ 790,00

### Outboard application (complete kit) slide cylinders with horns

<b>MF255WTS</b>	250 HP	422 Kgf.	88 Kgm.	55 Kts.	4,5	TL2-30 MRA	yes	MC255WTS	6+6m 20' twin	2 Lt.	€ 794,00
<b>MF400WTS</b>	400 HP	700 Kgf.	146 Kgm.	60 Kts.	5,3	TL2-40SP MRA	yes	MC400WTS	7+7m 23' twin	3 Lt.	€ 930,00

### Outboard application (complete kit) Racing / Fast Boats / Twin Engine, High Precision Pump

<b>MF350WSP</b>	350 HP	495 Kgf.	102 Kgm.	75 Kts.	3,8	TL2-40SP MRA	yes	MC350W	7+7m 23' twin	2 Lt.	€ 910,00
<b>MF255WTS-TDF</b> (twin cylinder)	200+200 HP	2x 422 Kgf.	2x 88 Kgm.	45 Kts.	6,5	TL2-40SP MRA	yes	2x MC255WTS	7+7m 23' twin	3 Lt.	€ 1.440,00
<b>MF350W-TDF</b> (twin cylinder)	300+300 HP	2x 495 Kgf.	2x 102 Kgm.	75 Kts.	7,2	TL2-40SP MRA	yes	2x MC350W	7+7m 23' twin	3 Lt.	€ 1.420,00

### Inboard application (complete kit)

System	boat length (max.)	output force	torque	max. speed	turns	pump	anti-feedback valve / automatic pilot appl.	cylinder	hose set	oil	price
<b>MU50TF</b>	10m - 33Ft	387 Kgf.	58 Kgm.	35 Kts.	5	TL1-16	no	MC50	5+5m 16' twin	1 Lt.	€ 462,00
<b>MU50TFMRA</b>	10m - 33Ft	387 Kgf.	58 Kgm.	35 Kts.	5	TL1-16 MRA	yes	MC50	5+5m 16' twin	1 Lt.	€ 488,00
<b>MU75TF</b>	12m - 40Ft	354 Kgf.	80 Kgm.	45 Kts.	4	TL2-30	no	MC75	7+7m 23' twin	2 Lt.	€ 660,00
<b>MU75TFMRA</b>	12m - 40Ft	354 Kgf.	80 Kgm.	45 Kts.	4	TL2-30 MRA	yes	MC75	7+7m 23' twin	2 Lt.	€ 736,00

### Stern-drive application (complete kit)

<b>MSD70TF</b>	12m - 40Ft	387 Kgf.	78 Kgm.	55 Kts.	4	TL2-30	no	MC70	6+6m 20' twin	2 Lt.	€ 680,00
<b>MSD70TFMRA</b>	12m - 40Ft	387 Kgf.	78 Kgm.	55 Kts.	4	TL2-30 MRA	yes	MC70	6+6m 20' twin	2 Lt.	€ 756,00

### Sailing boats application (complete kit) - high precision pump, not backlash on wheel

<b>MU100TF</b>	16m - 52Ft	495 Kgf.	112 Kgm.	45 Kts.	5,7	TL2-30	no	MC1000	8+8m 26' twin	3 Lt.	€ 940,00
<b>MU100TFMRA</b>	16m - 52Ft	495 Kgf.	112 Kgm.	45 Kts.	5,7	TL2-30 MRA	yes	MC1000	8+8m 26' twin	3 Lt.	€ 1.016,00

upon request: special personalized kit for catamarans.

<b>Pumps:</b>	<i>description</i>	<i>application</i>	<i>lock-valve</i>	<i>Auto-pilot port</i>	<i>price</i>	
<b>TL1-16</b>	16cc pump	MF75W-MF90W-MU50TF	no	no	<b>€ 204,00</b>	
<b>TL1-16MRA</b>	16cc pump	MF115MRA-MF155W-MU50TFMRA	yes	1/8"	<b>€ 230,00</b>	
<b>TL2-30</b>	28cc pump	<b>high precision</b> MU75TF-MSD70TF-MU100TF	no	no	<b>€ 304,00</b>	
<b>TL2-30MRA</b>	28cc pump	<b>high precision</b> MF255W/MF250WTF5-H/MF350WTF5-MU75TFMRA-	yes	1/8"	<b>€ 380,00</b>	
<b>TL2-40SPMRA</b>	38cc pump	<b>high precision</b> MF350WSP-MF255WTF5-TDF MF350WTF5	yes	1/8"	<b>€ 498,00</b>	
<b>Outboard Cylinders</b>	<i>description</i>	<i>engine power</i>	<i>outboard application</i>	<i>stroke</i>	<i>volume</i>	<i>price</i>
<b>MC75W</b>	outboard cylinder	75HP	MF75W	202mm	68cc	<b>€ 129,00</b>
<b>MC90W</b>	outboard cylinder	90HP	MF90W	210mm	71cc	<b>€ 150,00</b>
<b>MC115W</b>	outboard cylinder	120HP	MF115MRA	210mm	engine arm 71cc	<b>€ 178,00</b>
<b>MC175W</b>	outboard cylinder	175HP	ex MF155W/MF175W	208mm	twin arm 86cc	<b>€ 228,00</b>
<b>MC350W</b>	outboard cylinder	350HP	MF350W plus-MF350WSP-MF350W-TDF	206mm	twin arm 146cc	<b>€ 322,00</b>
<b>MC255WTS</b>	outboard cylinder <b>Horns</b>	250HP	MF255WTS	206mm	twin horn 125cc	<b>€ 332,00</b>
<b>MC400WTS</b>	outboard cylinder <b>Horns</b>	400HP	MF400WTS	208mm	twin horn 208cc	<b>€ 336,00</b>
<b>Inboard Cylinders</b>	<i>description</i>	<i>torque</i>	<i>inboard application</i>	<i>stroke</i>	<i>volume</i>	<i>price</i>
<b>MC50</b>	inboard cylinder	58Kgm.	MU50TF-MU50TFMRA	150mm	83cc	<b>€ 190,00</b>
<b>MC70</b>	stern-drive cylinder	78Kgm.	MSD70TF	202mm	112cc	<b>€ 294,00</b>
<b>MC75</b>	inboard cylinder	80Kgm.	MU75TF-MU75TFMRA	225mm	114cc	<b>€ 268,00</b>
<b>MC1000</b>	inboard cylinder	112Kgm.	MU100SP-MU100SPMRA	225mm	160cc	<b>€ 534,00</b>
<b>Autopilot connect.</b>						
<b>APMF</b>	automatic pilot connection kit	automatic pilot		hose set, fittings, oil		<b>€ 158,00</b>
<b>Hydraulic Oil</b>	<i>description</i>	<i>bottle</i>	<i>application</i>	<i>package box</i>		<i>price</i>
<b>HROL</b>	ATF III G	10x 1 Lt.	Hydrodrive steering	10 bottles		<b>€ 80,00</b>
<b>Cylinders Accessories</b>	<i>description</i>	<i>application</i>	<i>measurement</i>		<i>price</i>	
<b>BR72</b>	engine arm	MC90W cylinder			<b>€ 28,00</b>	
<b>BR75</b>	twin engine arm	MC150W-MC350W cylinder			<b>€ 54,00</b>	
<b>BTW62</b>	adjustable tie bar	MF350W-TDF or twin	540-620mm		<b>€ 144,00</b>	
<b>BTW70</b>	adjustable tie bar	MF350W-TDF or twin	620-700mm		<b>€ 169,00</b>	
<b>050.01.08</b>	extension kit (Suzuki)	all outboard cylinders - all mechanical steering	50mm extension	complete kit 2 pcs.	<b>€ 96,00</b>	
<b>Pumps Accessories</b>	<i>description</i>	<i>application</i>	<i>measurement</i>	<i>package</i>	<i>price</i>	
<b>MRA-Line</b>	lock-valve	in line mounting	kit includes twin hose set of 0,75m+0,75m and fittings		<b>€ 144,00</b>	
<b>MBY4</b>	by-pass valve	inboard application	kit includes twin hose set of 2+2m and fittings		<b>€ 92,00</b>	
<b>PL140 + FR10 + AD10</b>	fixing ring / flange / spacers	TL2 pumps inside mount	spacers for 10mm (0,4") up to 30mm (1,2")	1 kit	<b>€ 94,00</b>	
<b>Flying Bridge Kit</b>	<i>description</i>	<i>application</i>	<i>hose set</i>	<i>oil</i>	<i>price</i>	
<b>TL1-16MRA-DS</b>	second station kit	MF115MRA-MF155-175W-MU50TFMRA	5 mt.-16'	1 lt.	<b>€ 400,00</b>	
<b>TL2-30MRA-DS</b>	second station kit	MF255W-MF350W-MU75TFMRA-MSD70TFMRA-	MF250WTF SHMF350W TFSH 7 mt.-23'	2 lt.	<b>€ 560,00</b>	
<b>TL2-40MRA-DS</b>	second station kit	MF350WSP	8 mt.-26'	2 lt.	<b>€ 680,00</b>	
<b>Repairing parts</b>	<i>description</i>	<i>application</i>	<i>measurement</i>	<i>package</i>	<i>price</i>	
<b>MC-seals-90</b>	OB cylinders seals repairing kit	MC75W-MC90W-MC115W	(MC155W manufactured until May 2019)	1 kit	<b>€ 52,00</b>	
<b>MC-seals-175</b>	OB cylinders seals repairing kit	MC175W		1 kit	<b>€ 56,00</b>	
<b>MC-seals-350</b>	OB cylinder seals repairing kit	MC350W		1 kit	<b>€ 60,00</b>	
<b>MC-seals-255WTS</b>	OB cylinder seals repairing kit	MC250WTS		1 kit	<b>€ 56,00</b>	
<b>MC-seals-400WTS</b>	OB cylinder seals repairing kit	MC400WTS		1 kit	<b>€ 60,00</b>	
<b>MC-seals-50</b>	IB cylinders seals repairing kit	MC50/MC70 inboard cylinder		1 kit	<b>€ 52,00</b>	
<b>MC-seals-75</b>	IB cylinders seals repairing kit	MC75 inboard cylinder		1 kit	<b>€ 56,00</b>	
<b>MC-seals-1000</b>	IB cylinders seals repairing kit	MC1000 inboard cylinder		1 kit	<b>€ 62,00</b>	
<b>TL-seals-TL1</b>	seals repairing kit	TL1 pumps series		1 kit	<b>€ 56,00</b>	
<b>TL-seals-TL2</b>	seals repairing kit	TL2 pumps series		1 kit	<b>€ 68,00</b>	

<b>500.20.10.14</b>	easy filling oil system	TL1 pumps series		1 kit	<b>€ 12,00</b>
<b>500.20.10.38</b>	easy filling oil system	TL2 pumps series		1 kit	<b>€ 14,00</b>
<b>018.00.05</b>	mounting bracket	outboard cylinders		2 pcs. kit	<b>€ 32,00</b>
<b>025.02.11</b>	bronze bush	outboard cylinders	12*16 mm	2 pcs. kit	<b>€ 5,00</b>
<b>025.02.12</b>	adjustable ring	outboard cylinders	7/8"-14UNF	1 piece	<b>€ 6,00</b>
<b>PA-M12</b>	nylon washer spacer	outboard cylinders	25*12*2 mm	10 pcs. Kit	<b>€ 9,00</b>
<b>050.01.07</b>	tilt tube rod, complete kit	outboard cylinders		1 pcs kit	<b>€ 14,00</b>
<b>JAF10</b>	rod eye joint	MC50 cylinder	10mm-M10	1 piece	<b>€ 6,00</b>
<b>KSTM25-SU</b>	spherical support with plate	MC50 cylinder	complete support	1 kit	<b>€ 42,00</b>

<b>Hoses set</b>	<i>description</i>	<i>length in Mt.</i>	<i>application</i>	<i>fittings</i>	<i>length in Ft.</i>	<i>price</i>
<b>RS813AC</b>	twin hose roll	roll of 100 mt.	all hydraulic steering	-	100 Mt. (330")	<b>€ 600,00</b>
<b>RS813AC-W70</b>	twin hose set	0,75+0,75	MF255WTS-TDF / MF350W-TDF	included	2,5'+2,5'	<b>€ 40,00</b>
<b>RS813AC5-15</b>	twin hose set	4+4	MF75W	fitting included	13'+13'	<b>€ 55,00</b>
<b>RS813AC5-15</b>	twin hose set	4,5+4,5	MF75W	fitting included	15'+15'	<b>€ 58,00</b>
<b>RS813AC5-16</b>	twin hose set	5+5	MF90-MF115-MU50	fitting included	16'+16'	<b>€ 60,00</b>
<b>RS813AC6-20</b>	twin hose set	6+6	MF155W-MSD70	fitting included	20'+20'	<b>€ 66,00</b>
<b>RS813AC7-23</b>	twin hose set	7+7	MF350-MU75 series	fitting included	23'+23'	<b>€ 72,00</b>
<b>RS813AC8-26</b>	twin hose set	8+8	MU100 series	fitting included	26'+26'	<b>€ 78,00</b>
<b>RS813AC10-33</b>	twin hose set	10+10	various	fitting included	33'+33'	<b>€ 90,00</b>
<b>RT68BU6</b>	hose set 6x8mm	6 mt	two pumps or autopilot connection	reinforcement bushes included	20'+20'	<b>€ 22,00</b>

<b>Fittings</b>	<i>description</i>	<i>application</i>	<i>measurement</i>	<i>package</i>	<i>price</i>
<b>724.00.14</b>	tee fitting with purge valve	all cylinders-TL2-40MRA pump	1/4-10mm	1 piece	<b>€ 22,00</b>
<b>TTN-10</b>	3 ways - tee fitting	hoses connection	10mm	2 pcs. kit	<b>€ 22,00</b>
<b>TTN-8</b>	3 ways - tee fitting	hoses connection	8mm	2 pcs. kit	<b>€ 18,00</b>
<b>TTN-14-10</b>	1/4"-10mm - tee fitting	cylinders	1/4-10mm	2 pcs. kit	<b>€ 22,00</b>
<b>TTN-18-8</b>	1/8"-8mm tee fitting	autopilot connection	1/8-8mm	2 pcs. kit	<b>€ 18,00</b>
<b>GTN-14-10</b>	90° elbow fitting	pumps	1/4-10mm	2 pcs. kit	<b>€ 18,00</b>
<b>GTN-18-8</b>	90° elbow fitting	pumps	1/8-8mm	2 pcs. kit	<b>€ 16,00</b>
<b>DTN-14-10</b>	straight fitting	pumps/MRA-Line	1/4-10mm	2 pcs. kit	<b>€ 18,00</b>
<b>DTN-18-8</b>	straight fitting	autopilot connection	1/8-8mm	2 pcs. kit	<b>€ 16,00</b>
<b>9460.00.004</b>	straight connector fitting	twin hose connection	10mm - AC516	2 pcs. kit	<b>€ 18,00</b>
<b>97.40.00</b>	olive	for 10mm (1/4") fittings	10mm	10 pcs. kit	<b>€ 8,00</b>
<b>97.40.00.08</b>	olive	for 8mm (1/8") fittings	8mm	10 pcs. kit	<b>€ 6,00</b>
<b>9460.00.004</b>	straight connector fitting	twin hose connection	10mm - AC516	2 pcs. kit	<b>€ 18,00</b>
<b>AC516</b>	hose end fitting with olive	hoses connection	5/16-10mm	4 pcs. kit	<b>€ 32,00</b>
<b>151.00.00</b>	hose fairlead with aluminium flange	5/16 hydraulic hoses	1/4" fittings	1 pcs.	<b>€ 108,00</b>

## General terms

Prices: net ones to be intended EXW Pakozd - Hungary. SRP – guaranteed discount

The discounted prices will be rounded up or down

**Delivery:** depending from the ordered quantity; between 6 and 40 working days from payment receipt

**Shipment:** upon customer's request we can organize the delivery (in this case the costs will be covered by the customer)

**Payment:** wire transfer in advance on pro-forma invoice (valid as order's confirmation)

**M.O.Q.** 12 units

**Packaging:** included. Possibility to customize the package upon request (the costs will be covered by the customer)

**Boxes:** Hydraulic steering: standard kit box size 55x25x15 cm; average weight is 9 Kg.; max 60 units on one pallet

**Boxes:** Electronic steering: standard kit box size 55x35x25 cm; average weight is 9 Kg.; max 48 units on one pallet

**Boxes:** Mechanical steering: standard kit box size 60x40x10 cm; average weight is 5 Kg.; max 72 units on one pallet

The original Hydrodrive Hydraulic Steering System product is covered by a warranty of 36 months, the Electronic and Mechanical Steering for 18 months. The warranty period begins on the date of purchase of brand new, unused products.

Unless the customer submits proof of purchase, which will be verified by Techno Italia Kft., you will be obliged to pay for any repairs that are carried out. Proof of purchase must state the date of purchase and name of the product.

If, within the warranty period, the product is determined to be defective (at the date of original purchase) due to improper materials or workmanship, Techno Italia Kft will, without charge for labour or parts, repair or (at the discretion of Techno Italia Kft) replace the product or its defective parts.

Techno Italia Kft may replace defective products or parts with new or refurbished products or parts. All products and parts replaced become the property of Techno Italia Kft.

Warranty claims have to be enforced only upon receipt of a claim number. The claim number is given by Techno Italia Kft and it has to be obtained indicating the serial nr. of the defective product and the occurred problem. The costs for the return of the defective product are covered by the customer.

**Warranty:**

The following cases are not covered by the above warranty:

- minor faults or deviations in the quality of a product which do not affect the product's value or fitness for its intended purpose
- any accessories supplied with the product
- faults resulting from improper use (e.g. operating errors, mechanical damage, incorrect mounting)
- any modification of Hydrodrive Hydraulic Steering System products effected by the customer or a third party, unless Techno Italia Kft has given its prior written consent to the nature and extent of the modification
- faults due to force majeure
- faults of which the customer was already aware at the time of purchase

All warranty claims become void if the product is tampered with by unauthorized persons or repair shops. Further, this warranty is voided by removal or alteration of identification labels, serial numbers or safety labels on the product or its parts.



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