

Pumps



Harken 3-speed pumps are robust systems that push oil faster and more efficiently than other pumps on the market, reducing wasted time and energy. At preset points, the pump automatically shifts to the next speed. Shift points can be adjusted to fit crew strength and sailing style. 2-speed versions offer the same user-adjustable autosifting, high-strength handles, and mounting accessories. Harken pumps have been thoroughly cycle tested in the lab and in top international circuits like the Audi MedCup.

USES

Harken pumps work with any manual hydraulic system.

FEATURES

Two- and three-speed pumps have automatic shift points you can adjust to fit your strength and sailing style.

The splined pump shaft eliminates play for a tight fit and allows you to mount the handle at the exact angle you want.

The pump has a wide-base bolt pattern that reduces shear forces on the bolts and stress on the hull.

The optional adhered isolation plate improves load distribution even more by transferring torque directly to the mounting surface rather than to the bolt holes.

Upgrading from a 2-speed to 3-speed pump is easy because the mounting patterns are identical.

MATERIALS

To prevent galvanic corrosion around the stainless bolts, all bolt holes in the Hardkote-anodized 6061-T6 aluminum pump housing are lined with threaded stainless steel inserts.

The piston shafts and rocker arm are machined from 17-4PH stainless steel.

Pump isolation plates are made from G10, a high-strength, glass-reinforced epoxy laminate.

All plugs are stainless steel.

OPTIONS

Standard handles are knurled 6061-T6 Hardkote-anodized aluminum. Grand Prix alternatives include carbon and knurled titanium.

Standard round-tip handles fit most pumps on the market. An optional square-tipped style allows the handle to be pivoted 5 degrees laterally from the pumping direction for storage against the cockpit wall.

Standard shaft length is 30.5 mm (1.2 in) with 3.5° angle. Custom shafts are available upon special order.

MAINTENANCE

Regularly inspect visible components for material imperfections. All service and repair should be done by a certified hydraulic technician.

INSTALLATION

Hydraulic systems require professional installation and calibration.



Optional square-tipped handles can be pivoted laterally for storage against the cockpit wall.



Optional isolation plates made of extremely resilient G10 improve load distribution by transferring torque directly to the mounting surface.

Pumps & Handles



Handles

Part No.	Description	Ø		Length		Weight	
		in	mm	in	mm	lb	kg
HYPMH6600	Pump Handle 600 mm/aluminum	1 1/4	32	23 5/8	600	1.2	0.56
HYPMH6800	Pump Handle 800 mm/aluminum	1 1/4	32	31 1/2	800	1.5	0.70
HYPMHC800	Pump Handle 800 mm/carbon	1 1/4	32	31 1/2	800	1.0	0.45
HYPMHC800S	Pump Handle 800 mm/carbon/square tip	1 1/4	32	31 1/2	800	1.0	0.45
HYPMHC1000	Pump Handle 1000 mm/carbon	1 1/4	32	39 3/8	1000	1.2	0.53
HYPMHC1000S	Pump Handle 1000 mm/carbon/square tip	1 1/4	32	39 3/8	1000	1.2	0.53

Pump Dimensions

Part No.	Height	Maximum dimensions				
		Width		Depth		
in	mm	in	mm	in	mm	
HYPM2	5.4	137	5.7	144	3.0	76
HYPM3-1.1R	6.9	175	5.5	140	4.7	120
HYPM3-1.1S	6.9	175	5.5	140	4.7	120
HYPM3MP	3.8	96	4.1	103	0.2	5

Pumps

Part No.	Description	Output/stroke (push and pull)						Max pressure	psi	bar	Ports/fittings		Weight	
		1st: Low pressure		2nd: Medium pressure		3rd: High pressure					Suction	Pressure	lb	kg
		in ³	cc	in ³	cc	in ³	cc							
HYPM2	2-Speed pump/auto shift*	0.99	16.3	0.25	4.1	—	—	5000	345	3/8" hose barb	1/4" 37° JIC	4.3	1.95	
HYPM3-1.1R	3-Speed pump/auto shift/round handle socket*	2.03	33.3	0.51	8.3	0.18	3.0	10000	689	3/8" NPT	7/16" ORB	4.4	2.00	
HYPM3-1.1S	3-Speed pump/auto shift/square handle socket*	2.03	33.3	0.51	8.3	0.18	3.0	10000	689	3/8" NPT	7/16" ORB	4.4	2.00	
HYPM3MP	Pump anti-torque mounting plate	—	—	—	—	—	—	—	—	—	—	0.1	0.07	

*M8 fasteners