



Model 85300

**Hydraulic Motor for PowerMaster® III
 and PileDriver® III Pump Tubes**

- Safe to use where electric or pneumatic motors may be hazardous.
- Virtually eliminates concerns about air supply condition and exhaust emissions.
- Efficiently generates high material pressure and flow rate with minimum hydraulic power consumption.
- Few internal moving parts. No mechanical linkages or solenoids to fail or wear out.
- A completely internal changeover circuit requires no external signal for reciprocating action.
- A balanced cylinder design eliminates the need for separate up and down stroke adjustments.
- All key components are machined from steel or aluminum to ensure long service life in the toughest applications.
- Hydro-PowerMaster was designed and is manufactured under the strict conditions of an ISO 9001 registered quality system.

Model	Cylinder Diameter in. / cm	Piston Rod Dia. in. / cm	Stroke Length in. / cm	Hydraulic Fluid Inlet	Hydraulic Fluid Outlet
85300	2 / 5	1 3/8 / 3.5	6 / 15	SAE 8 female	SAE 10 female

Hydraulic Operating Pressure Range psi / bar	Operating Temperature Range	Hydraulic Fluid Flow Consumption Rate	Maximum Recommended Continuous Speed	Wetted Part Materials
300 to 1500 20.4 to 103	-30°F to 200°F -34°C to 93°C	18.8 cu. in./cycle or 1 gallon/12 cycles	75 cycles/minute	steel, aluminum bronze, Nitrile, Teflon® polyurethane



PowerMaster® III

PowerMaster® III Hydraulic Powered Pumps with 85300 Hydro-PowerMaster® Hydraulic Motor

With This Pump Tube	Nominal Ratio	Drum Size	Material Outlet NPTF	Operating Hydraulic Inlet Pressure Range psi (bar)*	Maximum Delivery Pressure psi / bar	Max. Free Del. @75 Cycles/Min. Gallons / Liters	
84985	1.5:1	55 gal	¾"	500 to 1,500 (34 to 103)	1,900 / 131	3.9 / 14.6	
84983							
84982							
84981		16 gal					
84984							
84986							
84987	Stub	500 to 1,000 (34 to 69)			7,000 / 483	0.7 / 2.6	
84976	2.5:1						55 gal
84977							16 gal
84978	4:1						55 gal
84979							16 gal
84991	3:1						55 gal
84992		16 gal					
84993	4.5:1	55 gal					
84994		16 gal					
84995	5:1	55 gal					
84996		16 gal					
84997	7:1	55 gal					
84998		16 gal					

See PowerMaster III section for pump tube specifications, mounting devices and accessories.

*Caution: Do not exceed maximum hydraulic inlet pressure listed for each motor/pump tube combination.



PileDriver® III

PileDriver® III Hydraulic Powered Pumps with 85300 Hydro-PowerMaster® Hydraulic Motor

With This Pump Tube	Nominal Ratio	Material Outlet NPTF	Operating Hydraulic Inlet Pressure Range psi (bar)*	Maximum Delivery Pressure psi / bar	Maximum Free Delivery @75 Cycles/Min. Gallons / Liters
84900	0.8:1	1½"	500 to 1,500 (34 to 103)	1200 / 83	7.1 / 27.0
84901	1:1			1500 / 103	5.5 / 20.8
84902	1.5:1			2250 / 155	3.9 / 14.9
84904	1:1			1500 / 103	5.8 / 22.0
84921	0.4:1			600 / 41	14.3 / 54.0
84922				14.9 / 56.5	
84923	0.2:1			300 / 21	27.6 / 104.5

See PileDriver III section for pump tube specifications, mounting devices and accessories.

*Caution: Do not exceed maximum hydraulic inlet pressure listed for each motor/pump tube combination.