

Hydraulic PowerMaster® Motor

Rugged design with minimum moving parts, maximum reliability and durability in heavy-duty applications

- Two motor sizes available
- Expands pumping capability to higher pressure and/or higher volume applications
- Internal logic provides smooth changeover for each stroke
- No need for external pressure or limit switches and solenoid valves
- Responds immediately to changes in grease volume/pressure demands
- Versatile – designed to deliver effectively in transfer and automated lubrication
- Use with Lincoln’s PowerMaster and PileDriver pump tube



Model 86300



Model 86400

Model	Cylinder Dia. in. / cm	Piston Rod Dia. in. / cm	Stroke Length in. / cm	Hydraulic Fluid Inlet	Hydraulic Fluid Outlet
86400	3½ / 8.9	2½ / 6.4	6 / 15.2	SAE 10 (f)	SAE 12 (f)
86300	2 / 5.1	1⅞ / 3.7	6 / 15.2	SAE 8 (f)	SAE 10 (f)

Model	Operating Pressure Range* psi / bar	Operating Temp. Range	Fluid Consumption Rate	Maximum Recommended Continuous Speed	Wetted Part Materials
86400	300 to 1500 20.4 to 103	-30°F to 200°F -34°C to 93°C	57.7 cu. in./cycle or 1 gallon/4 cycles	55 cycles/ minute	Steel, bronze, Polyurethane, nitrile
86300	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, bronze, Polyurethane, nitrile

* Refer to tables on next page for maximum operating pressure with specific pump tubes.



PowerMaster® III

PowerMaster® III with Model 86400

Pump Tube Model	Ratio	Maximum Delivery Pressure psi / bar	Maximum Hydraulic Inlet Pressure psi / bar
84981	4:1	4,000 / 276	1,000 / 69
84982			
84983			
84984			
84985			
84986			
84987			
84976	7.5:1	7,500 / 517	700 / 48
84977	11:1	7,700 / 531	
84978	8:1	7,200 / 496	900 / 62
84992	14:1	7,000 / 483	500 / 35
84993			
84994	17:1	7,650 / 527	450 / 31
84995			
84996	23:1	6,900 / 476	300 / 21
84997			
84998			

PowerMaster® III with Model 86300

Pump Tube Model	Ratio	Maximum Delivery Pressure psi / bar	Maximum Hydraulic Inlet Pressure psi / bar
84981	1.5:1	2,250 / 155	1,500 / 103
84982			
84983			
84984			
84985			
84986			
84987			
84976	2.5:1	3,750 / 258	1,300 / 90
84977	3.6:1	5,400 / 372	
84978	2.7:1	4,000 / 276	900 / 62
84979			
84991	4.5:1	6,750 / 465	
84992			
84993	5.5:1	7,500 / 517	
84994			
84995	8:1	7,200 / 496	
84996			
84997			
84998			



PileDriver® III

PileDriver® III with 86400 Motor

Pump Tube	Ratio	Maximum Delivery Pressure psi / bar	Maximum Hydraulic Inlet Pressure psi / bar
84900	2.3:1	3 450 / 238	1,500 / 103
84901	3:1	4,500 / 310	
84902	4:1	6,000 / 414	
84904	2.7:1	4,050 / 279	
84921	1.2:1	1,800 / 124	
84922			
84923	0.6:1	900 / 62	
85922	1.2:1	1,800 / 124	

PileDriver® III with 86300 Motor

Pump Tube	Ratio	Maximum Delivery Pressure psi / bar	Maximum Hydraulic Inlet Pressure psi / bar
84900	0.8:1	1,200 / 83	1,500 / 103
84901	1:1	1,500 / 103	
84902	1.4:1	2,100 / 145	
84904	0.9:1	1,350 / 93	
84921	0.4:1	600 / 41	
84922			
84923	0.2:1	300 / 21	
85922	0.4:1	600 / 41	