

New hydraulic PowerMaster motor

Designed for heavy-duty applications such as mining, construction and printing ink

Rugged design with minimum moving parts provides 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 automatic lubrication
- For use with Lincoln's PowerMaster and PileDriver pump tube

Hydraulic PowerMaster specifications

Model 86400

Cylinder diameter	3 1/2 in. (89 mm)
Piston rod diameter	2 1/2 in. (64 mm)
Stroke length	6 in. (152 mm)
Operating pressure range ¹⁾	300 to 1 500 psi (21 to 103 bar)
Operating temperature range	-30 to +200 °F (-34 to +93 °C)
Fluid consumption rate	57.7 cu. in./cycle or 1 gal./4 cycles (945,5 cm ³ /cycle or 3,8 liter/4 cycles)
Hydraulic fluid inlet	SAE 10 (female)
Hydraulic fluid outlet	SAE 12 (female)
Max. recommended speed (continuous)	55 cycles/min.
Wetted part materials	Steel, bronze, polyurethane, nitrile

Model 86300

Cylinder diameter	2 in. (51 mm)
Piston rod diameter	1 7/16 in. (37 mm)
Stroke length	6 in. (152 mm)
Operating pressure range*	300 to 1 500 psi (21 to 103 bar)
Operating temperature range	-30 to +200 °F (-34 to +93 °C)
Fluid consumption rate	18.8 cu. in./cycle or 1 gal./12 cycles (308 cm ³ /cycle or 3,8 liter/12 cycles)
Hydraulic fluid inlet	SAE 8 (female)
Hydraulic fluid outlet	SAE 10 (female)
Max. recommended speed (continuous)	75 cycles/min.
Wetted part materials	Steel, bronze, polyurethane, nitrile



Model 86400

Model 86300

¹⁾ Refer to table 1 for maximum operating pressure with specific pump tubes

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Table 1

Specifications

Pump type	Pump tube	Model 86400				Model 86300					
		Ratio	Max. delivery pressure		Max. hydraulic inlet pressure		Ratio	Max. delivery pressure		Max. hydraulic inlet pressure	
			psi	bar	psi	bar		psi	bar	psi	bar
PowerMaster III	84981	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84982	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84983	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84984	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84985	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84986	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84987	4:1	4 000	276	1 000	69	1.5:1	2 250	155	1 500	103
	84976	7.5:1	7 500	517	1 000	69	2.5:1	3 750	258	1 500	103
	84977	7.5:1	7 500	517	1 000	69	2.5:1	3 750	258	1 500	103
	84978	11:1	7 700	531	700	48	3.6:1	5 400	372	1 500	103
	84979	11:1	7 700	531	700	48	3.6:1	5 400	372	1 500	103
	84991	8:1	7 200	496	900	62	2.7:1	4 000	276	1 500	103
	84992	8:1	7 200	496	900	62	2.7:1	4 000	276	1 500	103
	84993	14:1	7 000	483	500	35	4.5:1	6 750	465	1 500	103
	84994	14:1	7 000	483	500	35	4.5:1	6 750	465	1 500	103
	84995	17:1	7 650	527	450	31	5.5:1	7 500	517	1 300	90
84996	17:1	7 650	527	450	31	5.5:1	7 500	517	1 300	90	
84997	23:1	6 900	476	300	21	8:1	7 200	496	900	62	
84998	23:1	6 900	476	300	21	8:1	7 200	496	900	62	
PileDriver III	84900	2.3:1	3 450	238	1 500	103	0.8:1	1 200	83	1 500	103
	84901	3:1	4 500	310	1 500	103	1:1	1 500	103	1 500	103
	84902	4:1	6 000	414	1 500	103	1.4:1	2 100	145	1 500	103
	84904	2.7:1	4 050	279	1 500	103	0.9:1	1 350	93	1 500	103
	84921	1.2:1	1 800	124	1 500	103	0.4:1	600	41	1 500	103
	84922	1.2:1	1 800	124	1 500	103	0.4:1	600	41	1 500	103
	84923	0.6:1	900	62	1 500	103	0.2:1	300	21	1 500	103

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