

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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