



3" Hydraulic Submersible Trash Pump 30HST w/10HPU

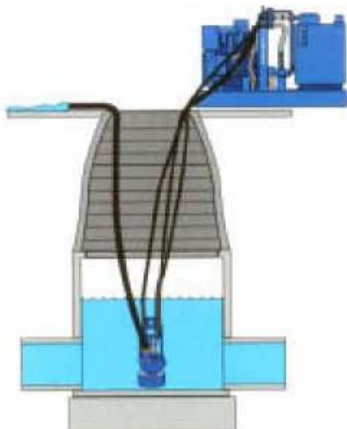
Thompson hydraulic submersible pumps provide a powerful answer when high heads or high lifts become a factor on job sites. These unique variable speed and variable flow hydraulically driven submersible pumps and power units are manufactured from heavy-duty cast iron and steel for high reliability. The Thompson design allows for maximum versatility in dewatering applications and pumping materials.

Features

- Ability to place pump end in the pumping source
- Eliminates suction lift limitations
- Pumps efficiently at heads up to 88 feet
- Variable speed and flow
- Solids Handling to 1.75"
- 600-gpm capacity
- Optional biodegradable lubricants for Environmentally sensitive areas

Applications

- Open pit and trench dewatering
- Pipeline dewatering
- Rim ditches
- Manholes
- Sewer lines
- By-pass applications
- Floodwater control
- Drainage and irrigation
- Dewatering of gravel pits, mines, quarries



Typical manhole-sewer line dewatering application

Working Principle

Thompson's hydraulically driven submersible pumps enable the power unit to remain high and dry while the pump head is submerged into the liquid being pumped. Therefore, there is no need to worry about suction lift limitations or priming problems.

These pumps are designed to run dry without damage to the components and are engineered to handle liquids from muddy, trash-laden water to sewage and sludge.

30HST Materials of Construction

Volute: Heavy-duty class 30 cast iron with built-in cutwater

Shaft: 1018 steel, fitted with a renewable 304 stainless steel sleeve

Impeller: Dynamically balanced, non-clogging, semi-open with full rear shroud, class 30 cast-iron, threaded to the shaft; Diameter: 6.5"

Wear Plate: Replaceable, micarta board

Hydraulic Motor: High efficiency, external gear type, 1.27 cubic inch displacement

Hydraulic Couplings: Delivery: .75" male Aeroquip 5100 series quick disconnect, with dust cap; Return: .75" female Aeroquip 5100 series quick disconnect, with dust cap

Discharge Fittings: 3" MNPT and 3" male aluminum cam and groove quick coupler

Mechanical Seal: Product lubricated with carbon rotating and ceramic stationary seal faces

Bearings: Heavy-duty, grease lubricated, sealed for life bearings to carry both axial and radial loads

Bearing Housing: Heavy-duty class 30 cast iron

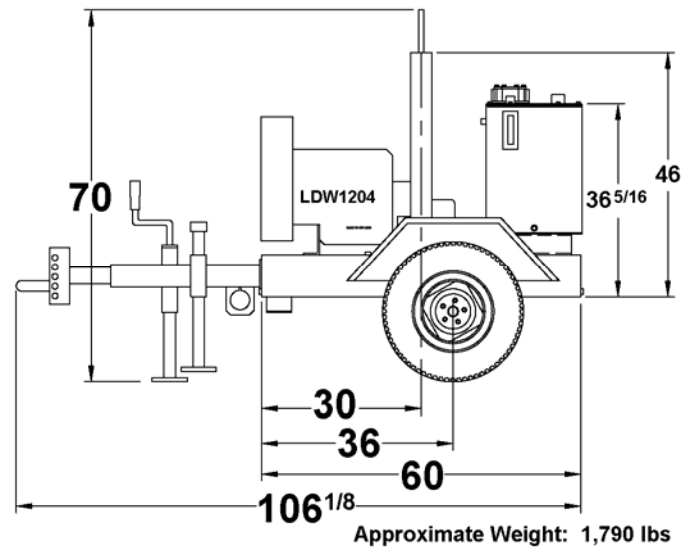
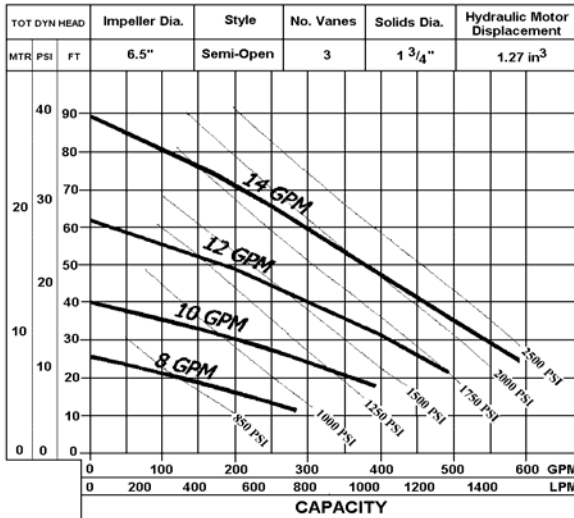
Adapter Plate: Heavy-duty class 30 cast iron

Gaskets: Neoprene

Strainer: Large, round hole, 1-1/8" diameter openings, A36 steel

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30 HST Performance Curve



Engine Specifications

Engine: Lombardini, LDW1204, 27 hp @ 3,600 rpm
Type: 4-cylinder, in-line, 4-cycle, water cooled, indirect injection, Tier II diesel
Standard Equipment: Electric starter, fuel feed diaphragm pump, muffler and instrument panel
Displacement: 74.57 cubic inches
Fuel Economy: .491 lb/hp-hr @ 3,600 rpm
Safety Shutdowns: High water temperature; Low oil pressure

Unit Specifications

Fuel Tank Capacity: 40 US gallons
Fuel Consumption: 1.77 gph
Maximum Operating Speed: 2,200 rpm
Maximum Operating Temperature: 212°F
Maximum Working Pressure: 60 psi
Maximum Casing Pressure: 60 psi

10HPU Materials of Construction

Pump: PLP20.20, positive displacement, external gear type, single pump, 1.27 in³ displacement
Control Valve: 3 Position spool type with internal differential area relief and pressure gauge for system diagnostics
Reservoir: Fabricated steel, with internal baffles, large access port, drain valve, sight glass level and temperature gauge, air vent, sump strainer, and shutoff valve
Sump Strainer: 100 mesh spin on type
Return Filter: 60 gpm at 5 psi backpressure, 25 micron, in tank mounted with internal bypass at 25 psi, integral filler/breather
Hydraulic Couplings: Delivery and Return: .75" male Aeroquip 5100 series quick disconnect with dust plug;
Safety Shutdowns: Low hydraulic fluid level; high hydraulic fluid temperature

In the interest of product improvement, Thompson Pump & Manufacturing reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity, Head and Pump Curve are for comparative purposes. Consult engineering data for exact capabilities.
 4620 City Center Drive, Port Orange, FL, 32129, USA (800) 767-7310 * Fax (386) 761-0362
 Email: sales@thompsonpump.com * www.thompsonpump.com

