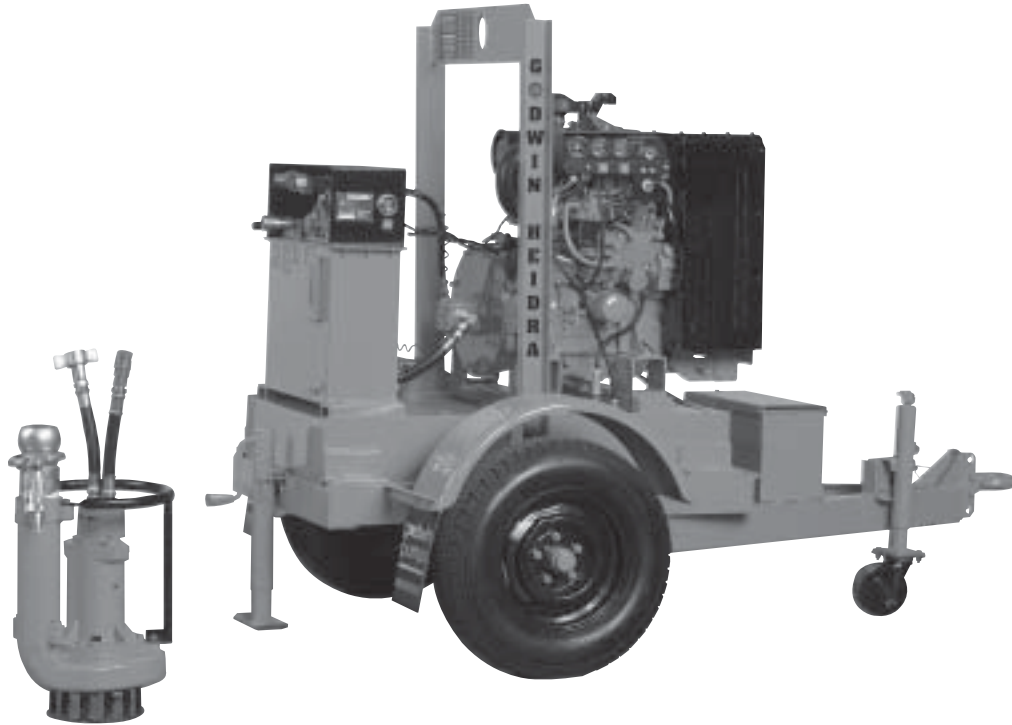


Heidra[®] 80 Hydraulic Submersible Pumps

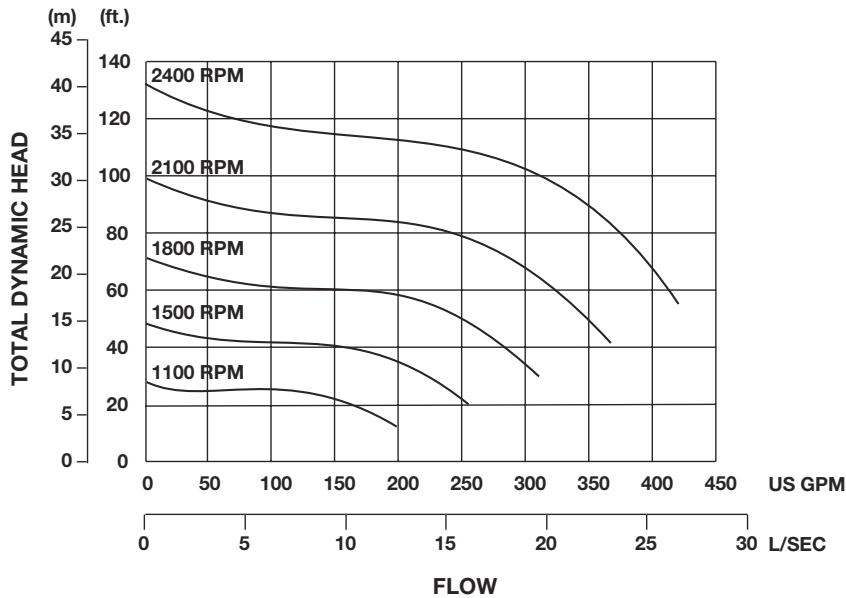


The Godwin 3" (75mm) Heidra 80 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 3" (75mm) submersible hydraulic pump. With variable speed diesel engine power, the Heidra 80 can meet a variety of flow and head requirements up to 420 gpm (26.5 l/sec.) and 125' (38.1M) of total dynamic head with a simple throttle adjustment. Add the ability to pass solids to 1-9/16" (40mm) in diameter, dry running capabilities, a cast chromium steel impeller, and you have a rugged dewatering/solids-handling, hydraulic submersible pump ready to go anywhere.

Features

- Rugged construction featuring cast iron pumping chamber and cast chromium steel impeller.
- The pump has independent bearings from the hydraulic gear motor, therefore pump loads in no way affect the gear motor performance.
- Mechanical seal in its own clean oil bath allows for indefinite dry running. Seal faces are solid silicone carbide.
- Standard impeller is designed for general pumping, slurries and sludges.
- Gear motor connections are standard two-bolt SAE flange.
- For ease of maintenance, the gear motor has a "plug-in" connection to allow for quick changeover when required.

Heidra 80 Performance Curve

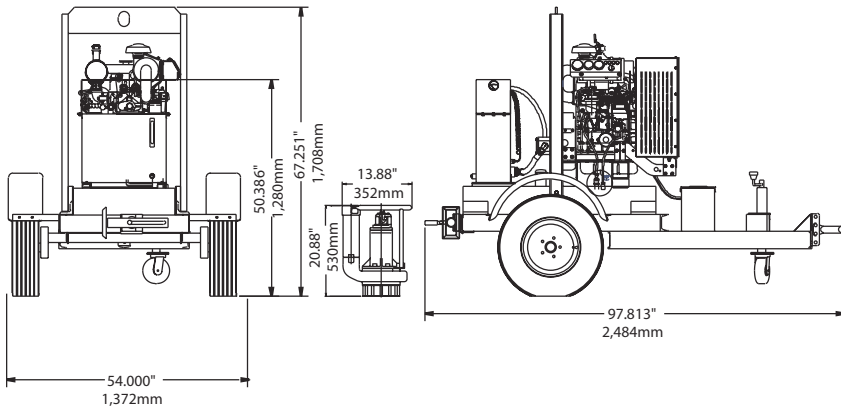


Performance data listed in table and curves based on water tests at sea level and 68° F (20° C). Larger diameter pipes may be required for maximum flows.

Dimensions

Weights (approx.)

Pump: 100 lbs. (45 kg.), Power Pack: 1,230 lbs. (558 kg.)



Materials

Pump Casing and Suction Cover:

Cast Iron

Front & Rear Wearplates:

Nitride Hardened Cast Iron to 600 Brinnell Hardness

Pump Shaft:

Mild Steel

Impeller:

Cast Steel

Bearing & Seal Housing:

Cast Iron

Mechanical Seal:

Single mechanical seal in oil bath with solid silicone carbide faces

Lifting Bracket:

Fabricated Mild Steel tube & plate

Specifications

Submersible Pump:

Hydraulic Motor: Gear Type
 Drive Pressures: 2800 psi (193 BAR)
 Flow: 10.5 gpm (.66 l/sec.)
 Pump Speed: Up to 3000 RPM
 Impeller Diameter: 6.54" (116mm)
 Solids Handling: 1-9/16" (40mm), max.
 Discharge: 3" (75mm) Female NPT
 Hydraulic Discharge Connection:
 Supplied with two 3/4" x 50 ft. (19mm x 15.24 meter) high pressure hoses
 Strainer: Nylon coated steel with 1.75" (44mm) square apertures

Power Pack:

Engine: John Deere 3009,
 16 hp (12 Kw) @ 2400 RPM
 Caterpillar 3003
 15 hp (11 Kw) @ 2400 RPM
 Hydraulic System: Two pipe open circuit
 Hydraulic Reservoir:
 10 gallon (37.9 liter) capacity
 Control: Through variable engine speed
 Hydraulic Pump: Gear type
 Output Flow:
 10.5 gpm (.66 l/sec.) @ 2400 RPM
 Output pressure:
 Up to 2800 psi (193 BAR)
 Suction Filter: 125 micron pleated gauze
 Return Line Filter: 10 micron
 Hydraulic Pipe Connections: 3/4" (19mm)
 Quick Disconnect



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