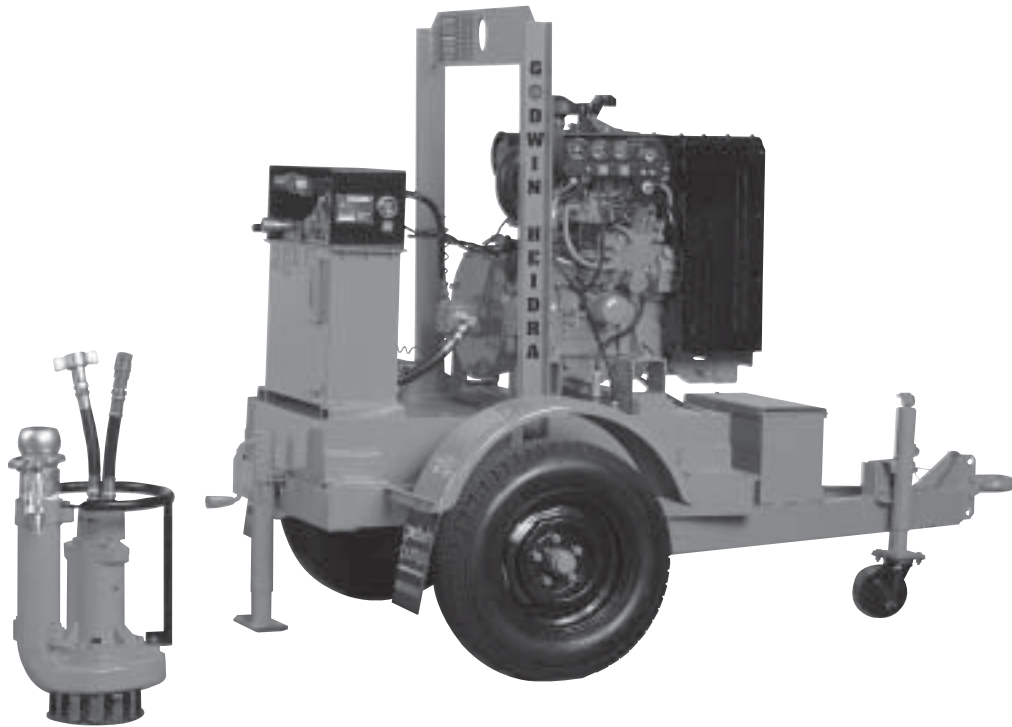


# Heidra<sup>®</sup> 80 Hydraulic Submersible Pumps

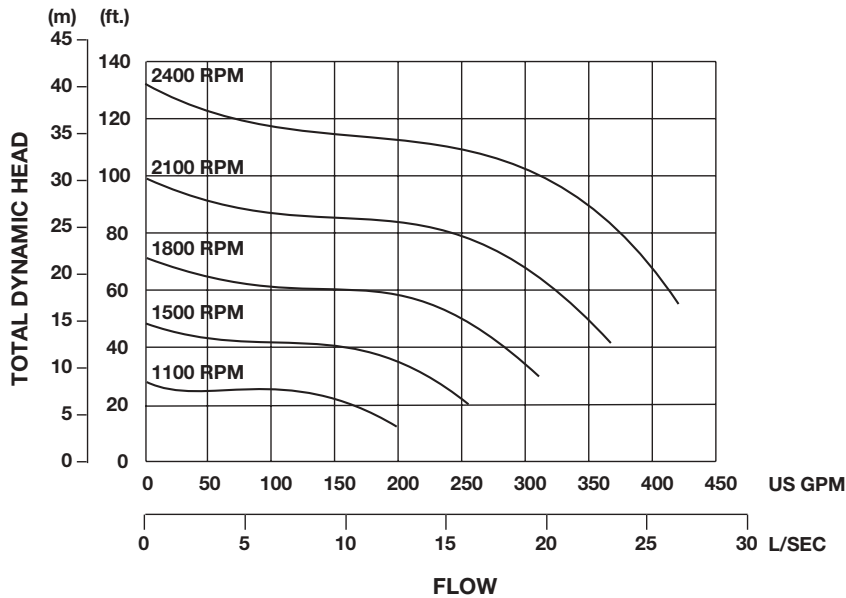


The Godwin 3" (75mm) Heidra 80 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 3" (75mm) submersible hydraulic pump. With variable speed diesel engine power, the Heidra 80 can meet a variety of flow and head requirements up to 420 gpm (26.5 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

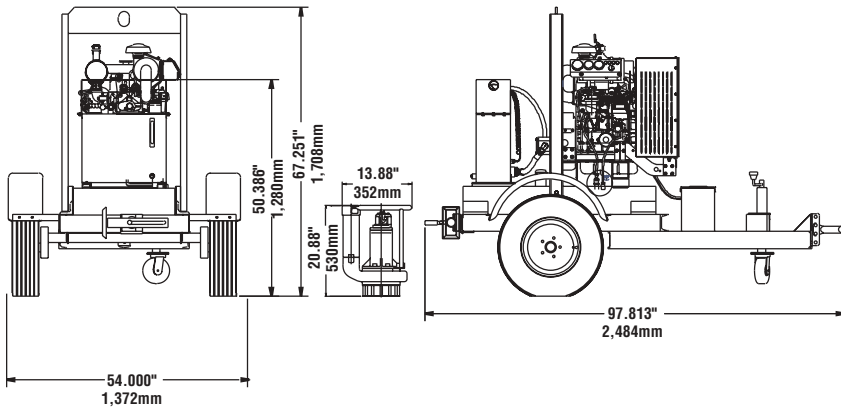


Performance data listed in table and curves based on water tests at sea level and 68° F (20° C). Larger diameter pipes may be required for maximum flows.

## 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

godwin  
pumps

One Floodgate Road, Bridgeport, NJ 08014, USA  
 (856) 467-3636 • Fax: (856) 467-4841

Quenington, Cirencester, Glos., GL7 5BX, UK  
 +44 (0)1285 750271 • Fax: +44 (0)1285 750352

E-mail: sales@godwinpumps.com  
 www.godwinpumps.com

## BRANCH LOCATIONS:

Connecticut • Pennsylvania • New York • Ohio  
 Illinois • Maryland • Virginia • West Virginia  
 North Carolina • South Carolina • Georgia  
 Florida • Texas • Montana • California • Washington

Heidra® and the color orange for pumps are registered trademarks of Godwin Pumps of America, Inc.  
 Specifications and illustrations are subject to revision without notice.  
 © Copyright 2004 -2005 Godwin Pumps of America, Inc.  
 All rights reserved.