

# Heidra<sup>®</sup> 100TD Hydraulic Submersible Pumps

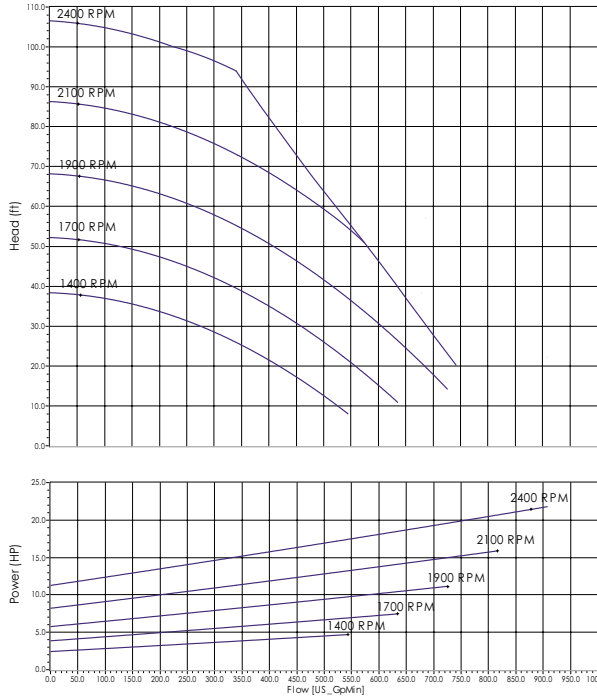
**T**he Godwin 4" (100 mm) Heidra 100TD hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 4" (100 mm) submersible hydraulic top discharge pump. With variable speed diesel engine power, the Heidra 100TD pump can meet a variety of flow and head requirements up to 800 GPM (182 m<sup>3</sup>/h) and 130' (39.6 m) of total dynamic head with a simple throttle adjustment. Top discharge design enables the pump to be lowered into a 19.5" (495 mm) diameter opening. Add the ability to pass solids to 2" (50 mm) diameters, dry running capabilities and a cast chromium steel impeller, and you have a rugged dewatering/solids-handling, hydraulic submersible pump ready to go anywhere.



## Features

- Unique top discharge design enables pump to fit through a 19.5" (495 mm) diameter opening.
- Rugged construction featuring cast iron pumping chamber and cast chromium steel impeller.
- Bearings are independent from the hydraulic gear motor – pump loads in no way affect gear motor performance.
- Double mechanical seal in its own clean oil bath allows for indefinite dry running. Inboard seal: silicon carbide. Outboard seal: carbon or ceramic.
- Standard impeller designed for general pumping, slurries and sludges.
- Standard two-bolt SAE flange gear motor connections.
- Simple-to-maintain, gear motor with "plug-in" connection allows for quick changeover when needed.

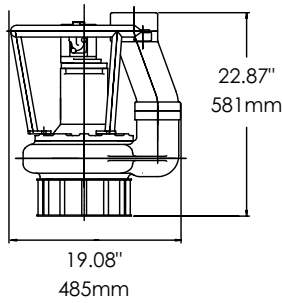
# Performance Curve



# Drawings

## Submersible Pump

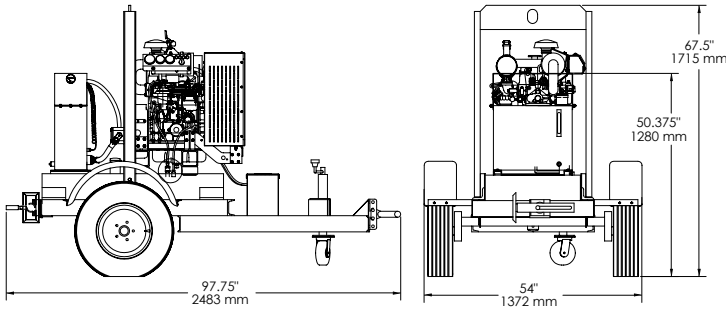
Pumpend dry weight - 190 lbs. (86 kg)



## Power Pack

Trailer-mounted John Deere 3016D engine

Dry weight - 1600 lbs. (726 kg)



# Materials

Pump Casing & Suction Cover	Aluminum or cast iron
Pump Shaft	Mild steel
Impeller	Cast steel
Wearplates	Cast iron
Mechanical Seal	Inboard: solid silicon carbide Outboard: carbon on ceramic

# Performance Table

Diesel Set - JD3016D, 28 HP (21 kW) @ 2000 RPM  
Impeller Diameter: 8.375" (213 mm)

	Total Delivery Head - Feet			
Total Suction Head (ft)	20	40	60	80
Output (GPM)	740	325	510	400

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

# Specifications

## Submersible Pump

Hydraulic Motor	Gear type
Drive Pressure	Up to 3350 PSI (231 BAR)
Hydraulic Flow	Up to 8.8 GPM (38.7 m³/h)
Hydraulic Line Length	300' max
Solids Handling	Up to 2" (50 mm) in diameter
Pump Speed (RPM)	Up to 2200 RPM
Impeller Diameter	8.4" (213 mm)
Discharge Flange	4" (100 mm) ASA 150
Hydraulic Connections	0.75" (19 mm) quick disconnect feed and return; 0.5" (13 mm) quick disconnect case drain
Strainer	Nylon coated with 1.75" (44 mm) square apertures

## Power Pack

Engine	JD3016D 28 HP (21 kW) @ 2000 RPM
Fuel Consumption	1.21 GPH (4.58 LPH) @ 2200 RPM
Fuel Tank Capacity	30 gallons
Output Hydraulic Flow	8.8 GPM (38.7 m³/h)
Output Pressure Control	Up to 3350 PSI (231 BAR)
Hydraulic System	Two pipe, open circuit
Reservoir	10 gallons (37.8 l)
Control Valve	Through variable speed engine
Connections	0.75" (19 mm) API
Supply Line Filter	125 micron, pleated gauze
Return Line Filter	20 micron

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