

# Heidra 103 Pump

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WATER TREATMENT SOLUTIONS

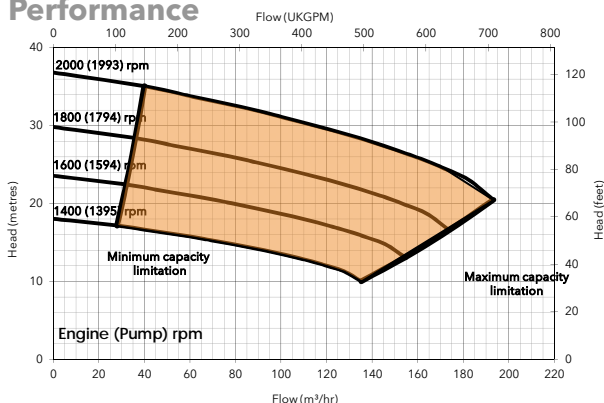
The Godwin Heidra 103 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and hydraulic pump end. With variable speed diesel engine power, the Heidra 103 can meet a variety of flow and head requirements up to 193 m<sup>3</sup>/hr and total dynamic head requirements up to 35 metres.

It has the ability to handle solids up to 75 mm in diameter. It also has dry running capabilities, a cast steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.

## Features

- Optional 100 mm bauer discharge connection. The quick release lever allows pipe work to be connected & disconnected very easily.
- Double mechanical seal in its own clean oil bath allows for indefinite dry running. Inboard seal: silicon carbide. Outboard seal: carbon or ceramic.
- Gear motor connections are standard SAE flange & shaft. Which allows easy connection to plug directly into bearing bracket.
- This special design allows the pump to fit down a standard 22 inch Manhole.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Alternative powerpack options available e.g. Highway trailer, Site trolley. Electric motor drive option also available.
- Godwin Power Pack GHPU15 as standard.

## Performance



TLPN: HS103-01-001

## Specifications

Suction connection	100 mm with strainer
Delivery connection	4" BSP (F)
Max capacity	193 m <sup>3</sup> /hr
Max Head	35 metres
Max operating speed	2000 rpm
Max Impeller diameter	256 mm
Max operating temperature	60 °C *
Max pressure	3.6 bar
Max suction pressure	1.7 bar
Max casing pressure	5.4 bar
Max Solids handling	75 mm

\* Please contact our office for applications in excess of maximum temperature.

## Materials

Pump casing & suction cover	Cast iron CI BS EN1561/EN-JL1030 (220)
Wearplates	Cast iron CI BS EN1561/EN-JL1030 (220)
Pump Shaft	Carbon Steel 080M40
Impeller	Cast Steel EN10293/A5
Mechanical Seal Face	Silicon Carbide vs Silicon Carbide
Suction Strainer & Lifting Bracket	Fabrication Mild Steel tube and plate.

## Pump end - dimensions

Length	410 mm
Width	520 mm
Height	650 mm
Dry Weight	135 kg

## Hydraulic Drive data

Hydraulic Drive pressure	250 bar
Pump speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	28 cc/rev
Hydraulic Flow	50 l/min

Please contact the factory or office for further details.  
A typical picture of the pump is shown.  
All information is approximate and for general guidance only.

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# Godwin Hydraulic Power Pack

## Power Pack - GHPU15 404D-22T

### General data

Engine: Perkins 404D-22T (31 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic Pump	Gear type
Hydraulic pump displacement	29 cc/rev
Output flow	50 l/min
Hydraulic reservoir capacity	80 litres

### Open set configuration

TLPN: GHPU15-DBO-002



### Dimensions

Length	1800 mm
Width	1000 mm
Height	1900 mm
Wet weight	1,300 kg
Fuel tank capacity (Full)	170 litres

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### Maximum hose lengths

Engine (rpm)	1400	1600	1800	2000
Max Length (mtrs)	60	50	40	30

### Hydraulic Hose

Feed/Return	19 mm (¾") BSP Quick Disconnect & 19 mm (¾") NB pipe.
Bleed Line	10 mm (⅜") BSP Quick Disconnect & 16 mm (½") NB pipe.

### Hush-Pac configuration

TLPN: GHPU15-DBH-002



### Dimensions

Length	2190 mm
Width	1045 mm
Height	1500 mm
Wet weight	1,425 kg
Fuel tank capacity (Full)	180 litres

### Acoustic information

Engine	Speed (rpm)	Average Sound Pressure rating (dB(A))		
		1 m	3 m	7 m
Hushpac	1400	72	67	64
	1800	75	70	65
	2000	77	71	66

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