

Heidra 100SG Pump

The Godwin Heidra 100SG 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 100SG can meet a variety of flow and head requirements up to 169 m³/hr and total dynamic head requirements up to 20 metres.

It has the ability to handle solids up to 45 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

- 100 mm 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.
- Open solid handling impellers with replaceable wearplates.
- The SG (Slurry Gate) pump is designed specifically for handling slurries & sludges in addition to general pumping.
- 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 GHPU10 as standard.



TLPN: HS100SG-01-001

Specifications

Suction connection	100 mm with strainer
Delivery connection	100 mm (4" BS10 Table 'D')
Max capacity	169 m ³ /hr
Max Head	20 metres
Max operating speed	2000 rpm
Max Impeller diameter	230 mm
Max operating temperature	60 °C *
Max pressure	2.0 bar
Max suction pressure	2.2 bar
Max casing pressure	3.1 bar
Max Solids handling	45 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.

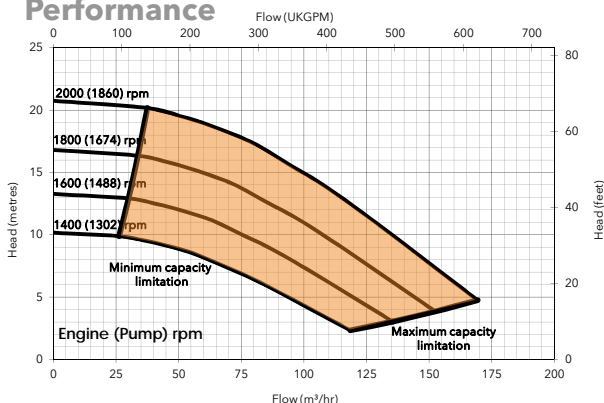
Pump end - dimensions

Length	730 mm
Width	420 mm
Height	825 mm
Dry Weight	87 kg

Hydraulic Drive data

Maximum Hydraulic Drive pressure	250 bar
Pump speed	1860 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	15 cc/rev
Hydraulic Flow	50 l/min

Performance



Reference number : 95-1206-1000
 Date of issue : 25 September 2014
 Issue : 2

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.

Godwin Hydraulic Power Pack

Power Pack - GHPU10/SG01 403D-15

General data

Engine: Perkins 403D-15 (17 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic Pump	Gear type
Hydraulic pump displacement	23 cc/rev
Output flow	50 l/min
Hydraulic reservoir capacity	80 litres

Open set configuration

TLPN: GHPU10SG-DBO-002



Dimensions

Length	1800 mm
Width	1000 mm
Height	1900 mm
Wet weight	1,275 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 (¾") BSP Quick Disconnect & 16 mm (½") NB pipe.
Cylinder Line	9.5mm (3/8") Quick Disconnect

Hush-Pac configuration

TLPN: GHPU10SG-DBH-002



Dimensions

Length	2190 mm
Width	1045 mm
Height	1500 mm
Wet weight	1,400 kg
Fuel tank capacity (Full)	180 litres

Acoustic information

Engine	Speed (rpm)	Average Sound Pressure rating (dbA)		
		1 m	3 m	7 m
Hushpac	1200	71	66	63
	1800	73	69	64
	2000	76	70	65

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