

Heidra 100 SG Hydraulic Submersible Pump

The Godwin Heidra 100 SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 4" hydraulic pump end. With variable speed diesel engine power, the Heidra 100 SG can meet a variety of flow and head requirements up to 209 m³/hr and total dynamic head requirements up to 30 metres.

It has the ability to handle solids up to 45 mm in diameter. It also has dry running capabilities, a cast chromium 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 two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- Standard impeller is designed for general pumping, slurries and sludges.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

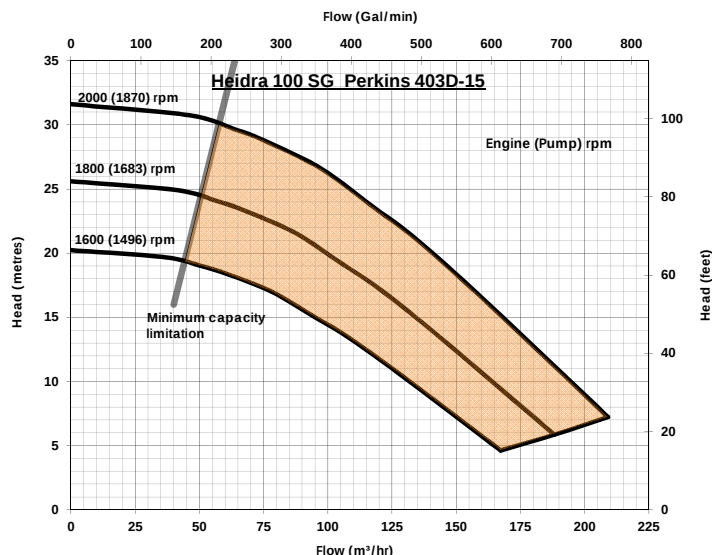
Specifications

Inlet diameter	100 mm with strainer
Discharge connection	100 mm (4" BS10 Table 'D')
Max capacity	209 m ³ /hr
Max Head	30 metres
Solids handling	45 mm
Impeller diameter	214 mm
Max operating temp	80 °C
Max working pressure	3.1 Pressure (bar)
Max suction pressure	2.5 Pressure (bar)
Max casing pressure	4.7 Pressure (bar)
Max operating speed	2300 rpm
Fuel tank capacity	72 litres
Fuel consumption (BEP) 11.7 kW @ 2000 rpm	3.3 litres/hour



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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220 Nitrided.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU10

Engine : Perkins 403D-15 (16.5 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic pump displacement	15 cc/rev
Output flow	28 l/min
Wet weight	945 kg
Hydraulic reservoir capacity	40 litres

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1770 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	15 cc/rev
Flow	28 l/min
Wet Weight	145 kg

Power pack dimensions

Length	1300 mm
Width	680 mm
Height	1900 mm

Pump end dimensions

Length	442 mm
Width	315 mm
Height	825 mm

Hydraulic Hose

Feed/Return	13 mm (1/2") BSP x 16 mm (5/8") NB pipe.
Bleed Line	10 mm (3/8") BSP x 10 mm (3/8") NB pipe.

Maximum hose lengths

Engine (rpm)	1700	2100	2200	2400
Max Length (mtrs)	40	35	30	20

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Assessed to ISO 9001:2008
Certificate N° 1027

Heidra 150SG Hydraulic Submersible Pump

Heidra 150SG

The Godwin Heidra 150SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 6" hydraulic pump end. With variable speed diesel engine power, the Heidra 150SG can meet a variety of flow and head requirements up to 430 m³/hr and total dynamic head requirements up to 22 metres.

It has the ability to handle solids up to 65 mm in diameter. It also has dry running capabilities, a cast chromium steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.



Features

- 150 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 two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- Standard impeller is designed for general pumping, slurries and sludges.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

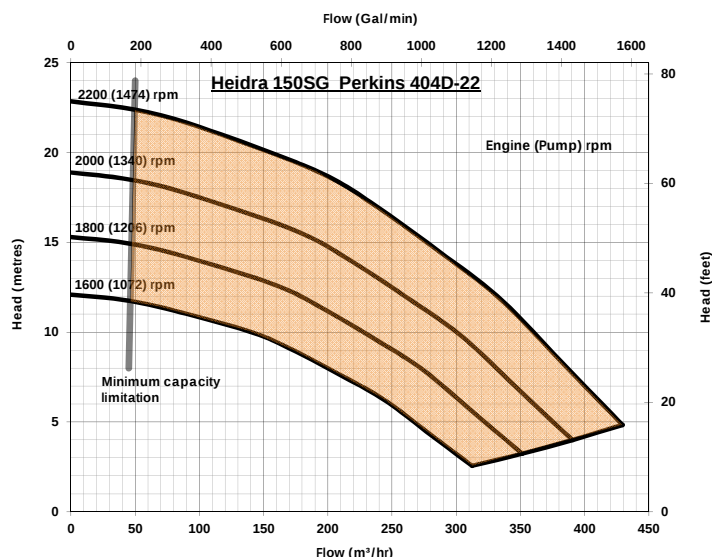
Specifications

Inlet diameter	150 mm with strainer
Discharge connection	150 mm (6" BS10 Table 'D')
Max capacity	430 m ³ /hr
Max Head	22 metres
Solids handling	65 mm
Impeller diameter	280 mm
Max operating temp	80 °C
Max working pressure	2.2 Pressure (bar)
Max suction pressure	1.7 Pressure (bar)
Max casing pressure	3.4 Pressure (bar)
Max operating speed	2200 rpm
Fuel tank capacity	170 litres
Fuel consumption (BEP) 10.1 kW @ 2000 rpm	3.8 litres/hour



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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220 Nitrided.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU30

Engine : Perkins 404D-22 (25.1 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic pump displacement	30 cc/rev
Output flow	30 l/min
Wet weight	1,052 kg
Hydraulic reservoir capacity	65 litres

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1420 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	35 cc/rev
Flow	30 l/min
Wet Weight	180 kg

Power pack dimensions

Length	1800 mm
Width	520 mm
Height	570 mm

Pump end dimensions

Length	785 mm
Width	500 mm
Height	860 mm

Hydraulic Hose

Feed/Return	19 mm (¾") BSP x 19 mm (¾") NB pipe.
Bleed Line	10 mm (⅜") BSP x 13 mm (½") NB pipe.

Maximum hose lengths

Engine (rpm)	1500	1800	2000	2200
Max Length (mtrs)	50	40	35	30

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Heidra 150MR SG Hydraulic Submersible Pump

Heidra 150MR SG

The Godwin Heidra 150MR SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 6" hydraulic pump end. With variable speed diesel engine power, the Heidra 150MR SG can meet a variety of flow and head requirements up to 520 m³/hr and total dynamic head requirements up to 47 metres.

It has the ability to handle solids up to 65 mm in diameter. It also has dry running capabilities, a cast chromium steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.



Features

- 150 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 two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- Standard impeller is designed for general pumping, slurries and sludges.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

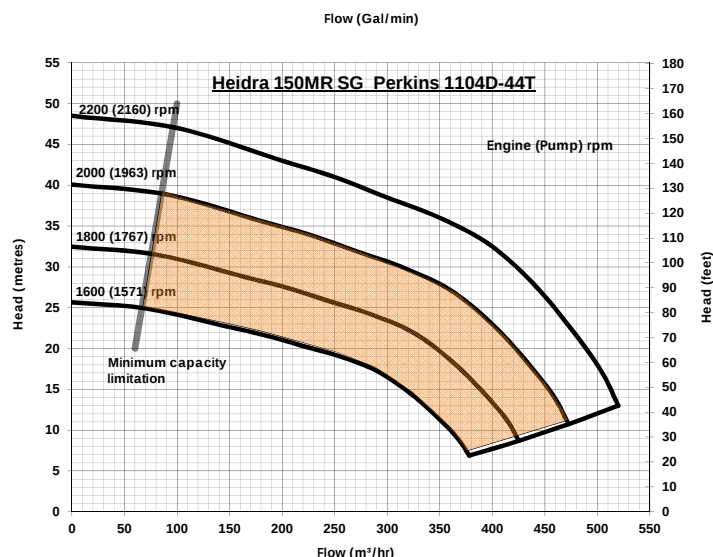
Specifications

Inlet diameter	150 mm with strainer
Discharge connection	150 mm (6" BS10 Table 'D')
Max capacity	520 m ³ /hr
Max Head	47 metres
Solids handling	65 mm
Impeller diameter	280 mm
Max operating temp	80 °C
Max working pressure	4.8 Pressure (bar)
Max suction pressure	1.7 Pressure (bar)
Max casing pressure	7.1 Pressure (bar)
Max operating speed	2200 rpm
Fuel tank capacity	390 litres
Fuel consumption (BEP) 12.4 kW @ 2000 rpm	6.1 litres/hour



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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220 Nitrided.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU30

Engine : Perkins 1104D-44T (54.7 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic pump displacement	60 cc/rev
Output flow	100 l/min
Wet weight	2,250 kg
Hydraulic reservoir capacity	200 litres

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1964 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	55 cc/rev
Flow	100 l/min
Wet Weight	185 kg

Power pack dimensions

Length	2500 mm
Width	1300 mm
Height	1900 mm

Pump end dimensions

Length	785 mm
Width	520 mm
Height	1000 mm

Hydraulic Hose

Feed/Return	25 mm (1") BSP x 25 mm (1") NB pipe.
Bleed Line	13 mm (½") BSP x 13 mm (½") NB pipe.

Maximum hose lengths

Engine (rpm)	2000	2200	2400	2600
Max Length (mtrs)	40	35	30	20

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Heidra 150V SG Hydraulic Submersible Pump

Heidra 150V SG

The Godwin Heidra 150V SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 6" hydraulic pump end. With variable speed diesel engine power, the Heidra 150V SG can meet a variety of flow and head requirements up to 452 m³/hr and total dynamic head requirements up to 21 metres.

It has the ability to handle solids up to 125 mm in diameter. It also has dry running capabilities, a cast chromium steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.



Features

- Fully recessed vortex impeller will handle solids up to 125 mm in diameter.
- 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 two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- Standard impeller is designed for general pumping, slurries and sludges.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

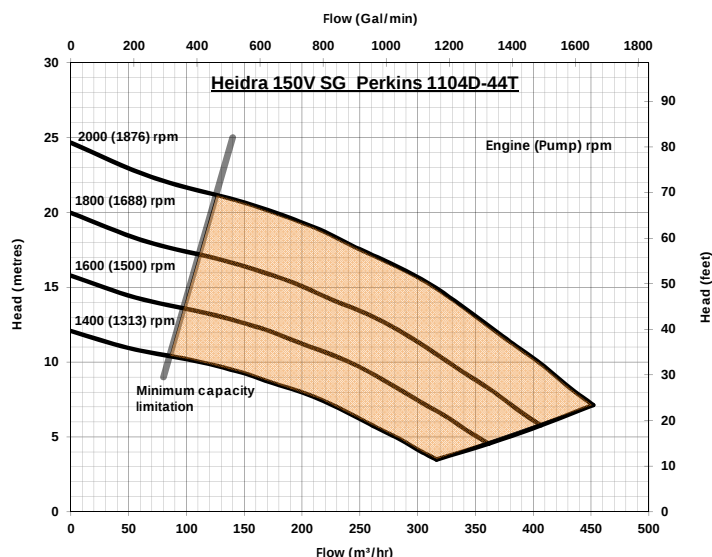
Specifications

Inlet diameter	150 mm with strainer
Discharge connection	150 mm (6" BS10 Table 'D')
Max capacity	452 m ³ /hr
Max Head	21 metres
Solids handling	125 mm
Impeller diameter	280 mm
Max operating temp	80 °C
Max working pressure	2.4 Pressure (bar)
Max suction pressure	2.0 Pressure (bar)
Max casing pressure	3.6 Pressure (bar)
Max operating speed	2200 rpm
Fuel tank capacity	390 litres
Fuel consumption (BEP) 41.8 kW @ 2000 rpm	13.4 litres/hour



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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU30

Engine : Perkins 1104D-44T (54.7 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic pump displacement	60 cc/rev
Output flow	100 l/min
Wet weight	2,250 kg
Hydraulic reservoir capacity	200 litres

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1860 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	60 cc/rev
Flow	100 l/min
Wet Weight	200 kg

Power pack dimensions

Length	2500 mm
Width	1300 mm
Height	1900 mm

Pump end dimensions

Length	1500 mm
Width	500 mm
Height	950 mm

Hydraulic Hose

Feed/Return	25 mm (1") BSP x 25 mm (1") NB pipe.
Bleed Line	13 mm (½") BSP x 13 mm (½") NB pipe.

Maximum hose lengths

Engine (rpm)	1400	1600	1800	2000
Max Length (mtrs)	80	70	60	50

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Heidra 200SG Hydraulic Submersible Pump

The Godwin Heidra 200SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 8" hydraulic pump end. With variable speed diesel engine power, the Heidra 200SG can meet a variety of flow and head requirements up to 691 m³/hr and total dynamic head requirements up to 40 metres.

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



Features

- 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.
- Gear motor connections are standard two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- Standard impeller is designed for general pumping, slurries and sludges.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

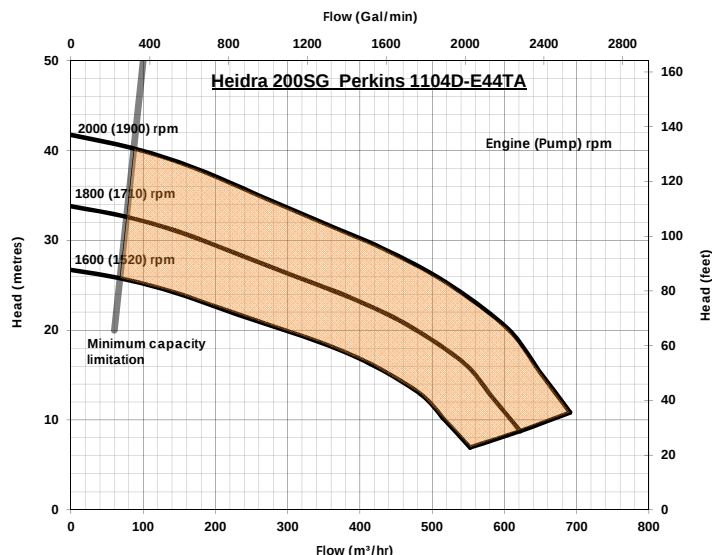
Specifications

Inlet diameter	200 mm with strainer
Discharge connection	200 mm (8" BS10 Table 'D')
Max capacity	691 m ³ /hr
Max Head	40 metres
Solids handling	75 mm
Impeller diameter	290 mm
Max operating temp	80 °C
Max working pressure	4.1 Pressure (bar)
Max suction pressure	1.5 Pressure (bar)
Max casing pressure	6.1 Pressure (bar)
Max operating speed	2200 rpm
Fuel tank capacity	390 litres
Fuel consumption (BEP) 57.7 kW @ 2000 rpm	18.4 litres/hour



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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220 Nitrided.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU50

Engine : Perkins 1104D-E44TA (74.1 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Piston
Hydraulic pump displacement	100 cc/rev
Output flow	190 l/min
Wet weight	2,250 kg
Hydraulic reservoir capacity	300 litres

Power pack dimensions

Length	2500 mm
Width	1300 mm
Height	1900 mm

Hydraulic Hose

Feed/Return 32 mm (1¼") Quick Disconnect.

Bleed Line 13 mm (½") Quick Disconnect.

Maximum hose lengths

Engine (rpm)	1500	1800	2000	2200
Max Length (mtrs)	50	40	35	30

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1940 rpm
Hydraulic motor	Piston
Hydraulic motor displacement	100 cc/rev
Flow	190 l/min
Wet Weight	380 kg

Pump end dimensions

Length	850 mm
Width	725 mm
Height	1300 mm

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