

HL100M Dri-Prime® Pump

EU Stage 4 Engine Compliant

The Godwin Dri-Prime HL100M pump is an extremely powerful yet compact pump with flow capabilities to 191 m³/hr and discharge heads to 95 metres.

The HL100M features the unique Godwin liquid bath mechanical seal design. This allows for dry running for prolonged periods while automatically priming and repriming. Able to perform in the toughest conditions, the HL100M can handle solids up to 35 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL100M has proven itself a pump of choice for dewatering, local authority usage and many other applications.



Features and Benefits

- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 35 mm in diameter.
- Liquid bath mechanical seal with dry-running endurance and high abrasion resistant Silicon carbide faces.
- A Close-coupled centrifugal pump with Godwin Dri-Prime system mounted to a diesel engine or electric drive.
- All cast iron construction with cast steel impeller. Stainless steel construction option also available.
- Also available as Hush-Pac and highway trailer options.
- Other engines options are available, please check with our office.

Specifications

Suction connection	100 mm (4" BS10 table 'D')
Delivery connection	100 mm (4" BS EN 1092 PN16)
Max capacity	191 m ³ /hr
Max Solids handling	35 mm
Max Impeller diameter	370 mm
Max operating temperature	80 °C *
Max pressure	9.4 bar
Max suction pressure	6.0 bar
Max casing pressure	14.1 bar
Max operating speed	2000 rpm

* Please contact our office for applications in excess of 80°C.

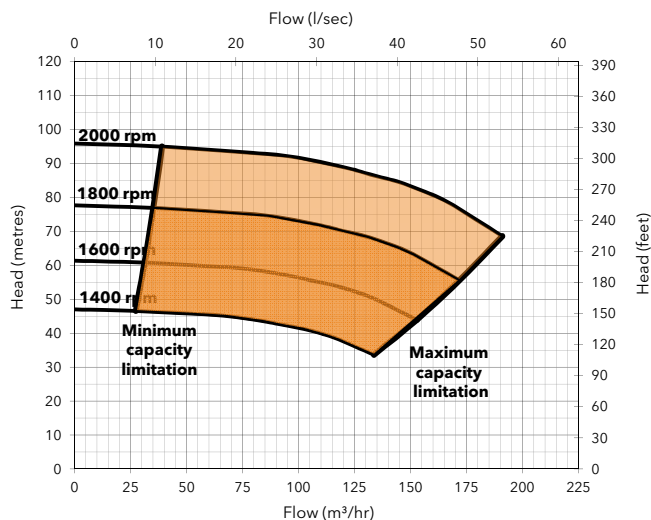
** To achieve maximum flow rates, larger pipe maybe required.

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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.

Performance Curve



Engine option 1

Price list ref - HL100M-01-T4BO-001

JCB, 444 TA4i-93 [80.6 kW @ 2000 rpm]

Impeller diameter 370 mm

Pump Speed 2000 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	65	75	80	85	88
Output (m³/hr)					
3.0	191	166	152	130	100
4.6	185	165	145	122	90
6.1	175	155	135	115	65
7.6	165	150	120	100	35

Emission Standards, EU Stage 3B / EPA Tier 4i

Fuel capacity (Full) 390 litres, (Usable) 318 litres

BEP Fuel consumption @ 2000 rpm 16.4 litres/hr

Weight: (Dry) 2,100 kg, (Wet) 2,400 kg

Dimensions: (L) 2,500 x (W) 1,300 x (H) 1,900 mm

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.

Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	Cast iron BS EN 1561 - 1997
Pump Shaft	Carbon steel BS EN 1561 - 1997
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron BS EN 1561 - 1997
Mechanical Seal Faces	Silicon carbide vs silicon carbide

Engine option 2

Price list ref - HL100M-01-T4BO-002

JCB, 444 TA4i-68 [59.0 kW @ 1800 rpm]

Impeller diameter 370 mm

Pump Speed 1800 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	50	58	62	66	69
Output (m³/hr)					
3.0	172	149	137	117	90
4.6	167	149	131	110	81
6.1	158	140	122	104	59
7.6	149	135	108	90	32

Emission Standards, EU Stage 3B / EPA Tier 4i

Fuel capacity (Full) 390 litres, (Usable) 318 litres

BEP Fuel consumption @ 1800 rpm 12.6 litres/hr

Weight: (Dry) 2,100 kg, (Wet) 2,400 kg

Dimensions: (L) 2,500 x (W) 1,300 x (H) 1,900 mm

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.



Xylem Dewatering Solutions UK Ltd
Quenington, Cirencester
Gloucestershire GL7 5BX, England
Tel: +44 (0)1285 750271 Fax: +44 (0)1285 750351



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www.godwinpumps.com