

# HL160M Dri-Prime® Pump

The Godwin Dri-Prime HL160M pump is an extremely powerful yet compact pump with flow capabilities to 486 m<sup>3</sup>/hr and discharge heads to 187 metres.

The HL160M features an oil 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 HL160M 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 HL160M has proven itself a pump of choice for mines, quarries and many other high capacity applications.



## Features and Benefits

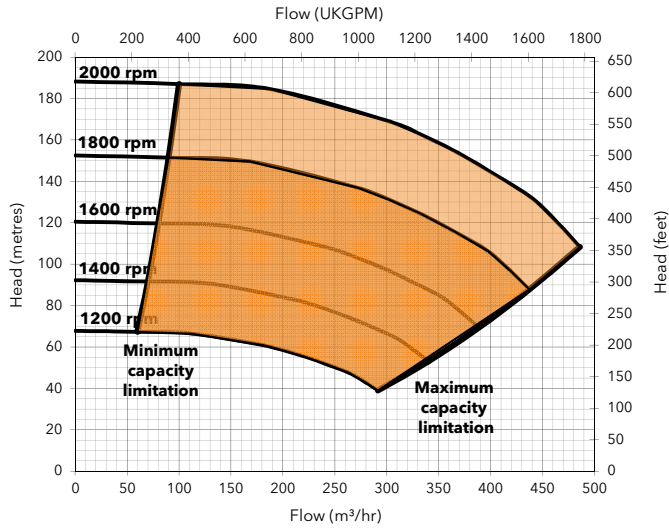
- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 35 mm in diameter.
- Dry-running high pressure oil bath mechanical seal, with 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 (stainless steel construction option available) with cast steel impeller.
- Also available as Hush-Pac or as a bareshaft pumpend.
- Standard build engines; Caterpillar C15, Volvo TAD951VE, Volvo TAD950VE, Volvo TAD952VE. Other engine options are available.

## Specifications

Suction connection	200 mm (8" BS10 Table'D')
Delivery connection	150 mm (6" BS EN 1092 PN25)
Max capacity	486 m <sup>3</sup> /hr
Max Head	187 metres
Max Solids handling	35 mm
Max Impeller diameter	508 mm
Max operating temp	80 °C
Max working pressure	18.5 bar
Max suction pressure	6.0 bar
Max casing pressure	27.7 bar
Max operating speed	2000 rpm

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# Performance Curve



## Engine option 1

Price list ref - HL160M-01-DBO-001

Caterpillar, C15, 315.0 kW @ 2000 rpm

Impeller diameter 508 mm

Pump Speed 2000 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	110	140	160	180	180
	Output (m³/hr)				
3.0	486	406	345	240	185
4.6	475	398	334	230	170
6.1	415	405	320	198	162
7.6	325	315	290	200	-

Fuel capacity (Full) 1225 litres, (Usable) 993 litres

Fuel consumption @ 2000 rpm BEP 68 litres/hour

Weight: (Dry) 5,940 kg, (Wet) 7,050 kg

Dimensions: (L) 4,000 x (W) 1,950 x (H) 2,350 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	High Chromium Cast Iron HC403:1977 Grade FR6252
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 viton

## Engine option 2

Price list ref - HL160M-01-DBO-003

Volvo, TAD951VE, 203.0 kW @ 1800 rpm

Impeller diameter 508 mm

Pump Speed 1800 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	87	111	127	143	143
	Output (m³/hr)				
3.0	437	365	311	216	167
4.6	428	358	301	207	153
6.1	374	365	288	178	146
7.6	293	284	261	180	-

Fuel capacity (Full) 850 litres, (Usable) 690 litres

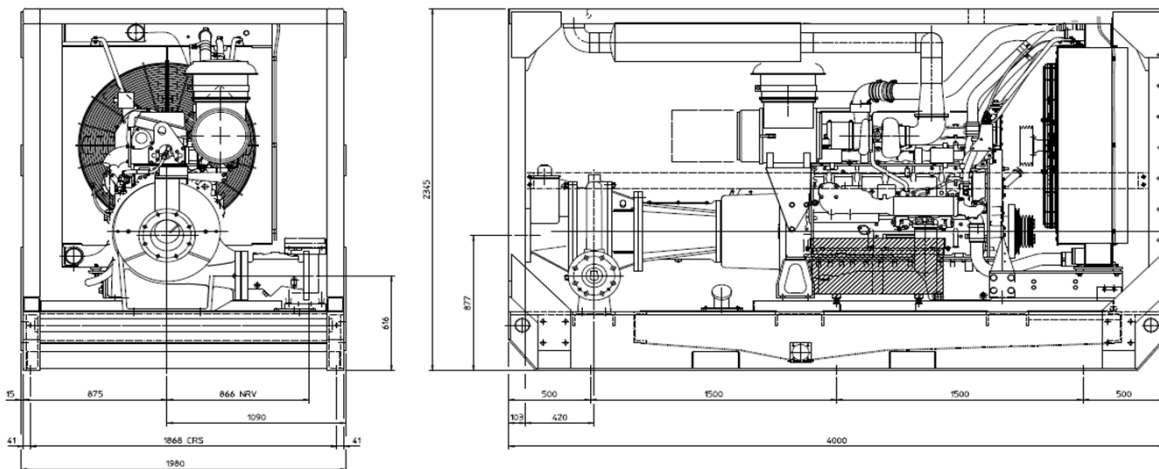
Fuel consumption @ 1800 rpm BEP 48 litres/hour

Weight: (Dry) 5,200 kg, (Wet) 5,944 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 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.

HL160M CAT C15 ACERT



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