

# CD300M Dri-Prime® Pump

The Godwin Dri-Prime CD300M pump is an extremely powerful yet compact pump with flow capabilities to 1,360 m<sup>3</sup>/hr and discharge heads to 57 metres.

The CD300M features the unique Godwin high pressure 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 CD300M can handle solids up to 95 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD300M has proven itself a pump of choice for mines, quarries and many other high capacity applications.



## Features and Benefits

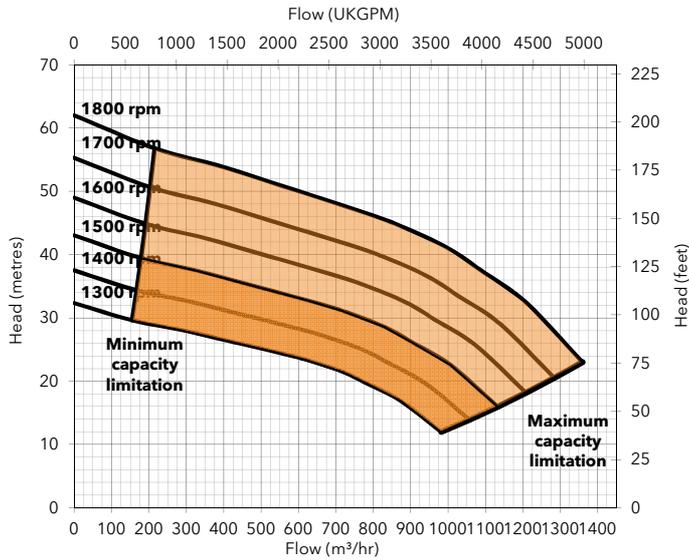
- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 95 mm in 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 C9, Perkins 1106D-E66TA (129), Volvo TAD950VE. Other engine options are available.

## Specifications

Suction connection	300 mm (12" BS10 table 'D')
Delivery connection	300 mm (12" BS10 table 'D')
Max capacity	1360 m <sup>3</sup> /hr
Max Head	57 metres
Max Solids handling	95 mm
Max Impeller diameter	362 mm
Max operating temp	80 °C
Max working pressure	6.1 bar
Max suction pressure	4.0 bar
Max casing pressure	9.1 bar
Max operating speed	1800 rpm

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## Performance Curve



## Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	High Chromium Cast Iron HC403:1977
Pump Shaft	Carbon steel BS 970 - 1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast iron BS EN 1561 - 1997
Mechanical Seal Faces	Double Mech seal; inboard SiC v SiC, Outboard SiC v Carbon

### Engine option 1

Price list ref - CD300M-01-DBO-002

Caterpillar, C9, 205.0 kW @ 1800 rpm

Impeller diameter 362 mm

Pump Speed 1800 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	19	30	40	43	47
	Output (m <sup>3</sup> /hr)				
3.0	1380	1200	936	804	588
4.6	1344	1140	828	696	479
6.1	1200	1080	660	480	240
7.6	960	900	600	480	-

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

Fuel consumption @ 1800 rpm BEP 42 litres/hour

Weight: (Dry) 4,800 kg, (Wet) 5,531 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.

### Engine option 2

Price list ref - CD300M-01-DBO-001

Perkins, 1106D-E66TA (129), 94.5 kW @ 1500 rpm

Impeller diameter 362 mm

Pump Speed 1500 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	12	20	27	29	32
	Output (m <sup>3</sup> /hr)				
3.0	1150	1000	780	670	490
4.6	1120	950	690	580	399
6.1	1000	900	550	400	200
7.6	800	750	500	400	-

Fuel capacity (Full) 950 litres, (Usable) 750 litres

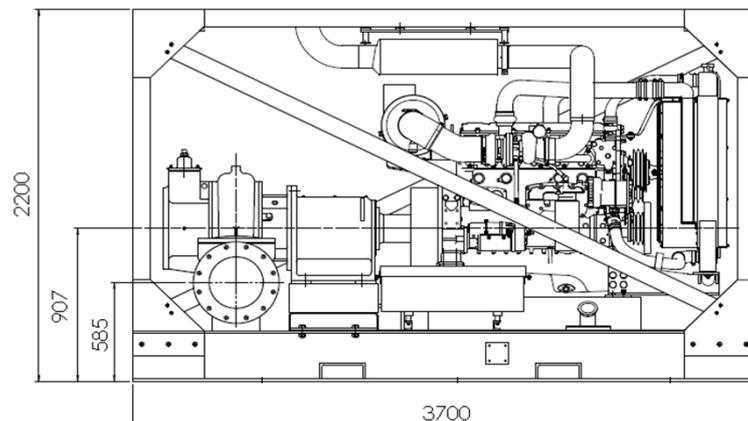
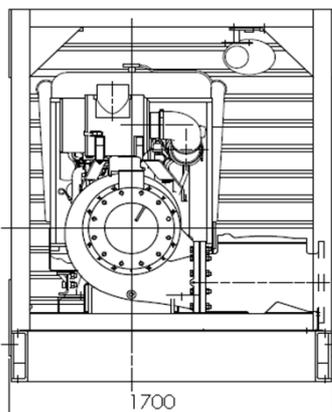
Fuel consumption @ 1500 rpm BEP 26 litres/hour

Weight: (Dry) 4,100 kg, (Wet) 4,808 kg

Dimensions: (L) 4,250 x (W) 2,205 x (H) 2,000 mm

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CD300M - Caterpillar C9



Xylem Dewatering Solutions UK Ltd  
Quenington, Cirencester  
Gloucestershire GL7 5BX, England  
Tel: 01285 750271 Fax: 01285 750352



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