

# CD500M Dri-Prime Pump

CD500M

**T**he Godwin Dri-Prime CD500M pump offers flow rates to 14,310 USGPM and discharge heads to 162' (49m). Also it has the capability of handling solids up to 3" (80mm) in diameter.

The CD500M is able to prime to 28' (8.5 m) of suction lift from dry.

Indefinite dry-running is no problem due to the unique Godwin oil bath mechanical seal design. Solids handling, dry-running and portability make the CD500M the perfect choice for small dewatering and bypass applications. The standard model is mounted on a highway trailer, with a skid-mounted option.



## Features

- Simple maintenance normally limited to checking fluid levels.
- Close-coupled centrifugal pump with vacuum priming compressor mounted to a diesel engine. Also available in electric drive or as bare shaft pumpend.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 3" in diameter.
- Continuously operated Godwin venturi air ejector priming device requiring no form of periodic adjustment or control.
- Dry-running heavy duty mechanical seal with abrasion-resistant interfaces.
- Also available in a Critically Silenced unit which drastically reduce noise levels of the pump.
- Standard engine Caterpillar C18. Also available with Caterpillar C15.
- The volute & suction cover are made from cast iron bs1452:1990 grade 220 and the impeller is made from cast steel bs3100 a5 hardness to 200 hb brinell.

## Specifications

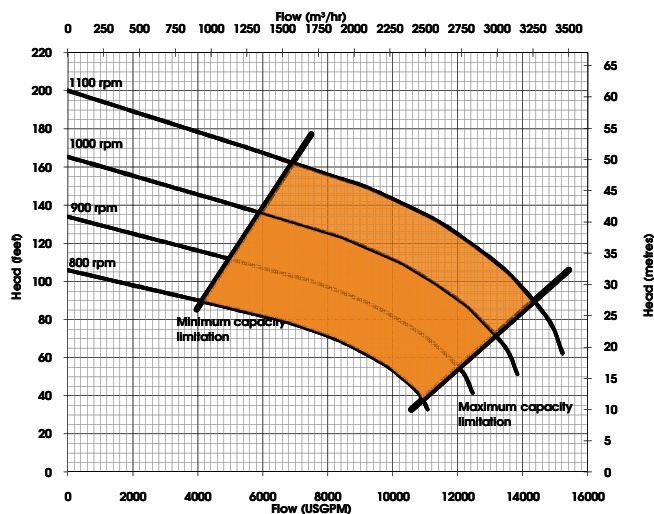
Suction connection	24" 125# ANSI B16.1
Delivery connection	18" 125# ANSI B16.1
Max capacity	14310 USGPM
Max head	162' (49m)
Max solids handling	3" (80mm)
Max impeller diameter	24" (610mm)
Max operating temp	176°F (80°C)
Max working pressure	87.0 psi (6.0 bar)
Max suction pressure	72.5 psi (5.0 bar)
Max casing pressure	130.5 psi (9.0 bar)
Max operating speed	1100 rpm

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Please contact Godwin for further details.  
A typical picture of the pump is shown.  
All information is approximate and for general guidance only.

## Performance Curve



## Materials

Pump casing & suction cover	Cast iron BS1452:1990 grade 220
Wearplates	Cast iron to BS1452 grade 220
Pump shaft	Nickel chrome steel to BS970 grade 817M40T
Impeller	Cast steel BS3100 A5 hardness to 200 HB Brinell
Non-return valve body	Cast iron
Mechanical seal faces	Double Mech seal; inboard TC v TC, Outboard Silicon carbide v Carbon

CD500M

### Engine option 1

Caterpillar, C18, 593.6 HP @ 1700 rpm

Impeller diameter 24 " (610 mm)

Pump Speed 1100 rpm

#### Suction Lift Table

Total Suction Head (')	Total Delivery Head (')				
	82	125	131	138	144
Output (USGPM)					
9.8	14089	11227	10567	8806	7485
15.1	13649	10611	9906	7925	7045
20.0	11227	10127	9730	7397	6604
24.9	6935	6164	-	-	-

Fuel capacity (Full) 9 US Gal, (Usable) 9 US Gal

Fuel consumption @ 1700 rpm BEP 25.4 US Gal/hr

Weight: (Dry) 17,996 lbs, (Wet) 18,268 lbs

Dimensions: (L) 204" x (W) 86" x (H) 92"

### Engine option 2

Caterpillar, C15, 474.4 HP @ 1800 rpm

Impeller diameter 24 " (610 mm)

Pump Speed 1000 rpm

#### Suction Lift Table

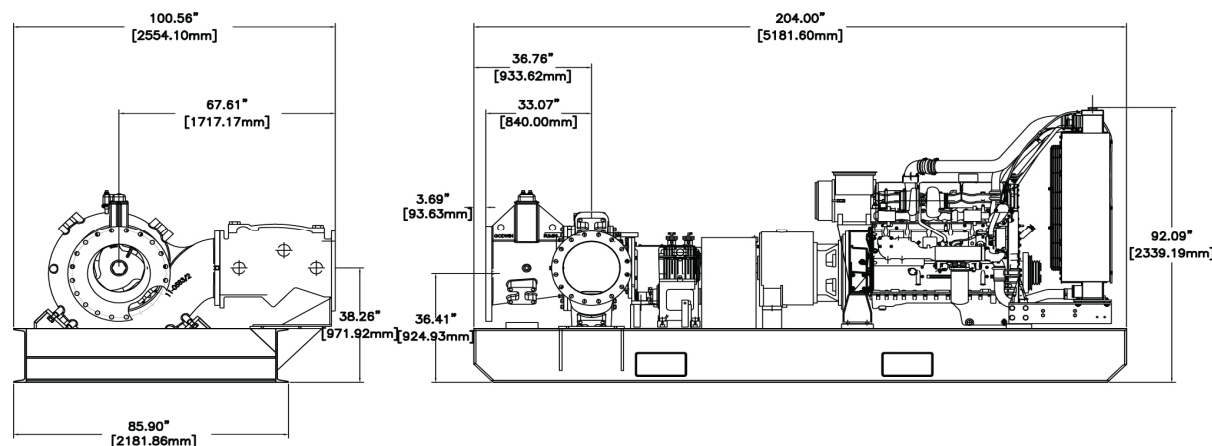
Total Suction Head (')	Total Delivery Head (')				
	60	95	100	106	111
Output (USGPM)					
9.8	12808	10207	9606	8005	6804
15.1	12408	9646	9006	7205	6404
20.0	10207	9206	8846	6724	6004
24.9	6304	5604	-	-	-

Fuel capacity (Full) 9 US Gal, (Usable) 9 US Gal

Fuel consumption @ 1800 rpm BEP 20.1 US Gal/hr

Weight: (Dry) 17,518 lbs, (Wet) 17,782 lbs

Dimensions: (L) 204" x (W) 86" x (H) 92"



Performance data provided in tables is based on water tests at sea level and 68°F ambient.

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