

# MUDMASTER<sup>®</sup>

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## PUMP UNITS

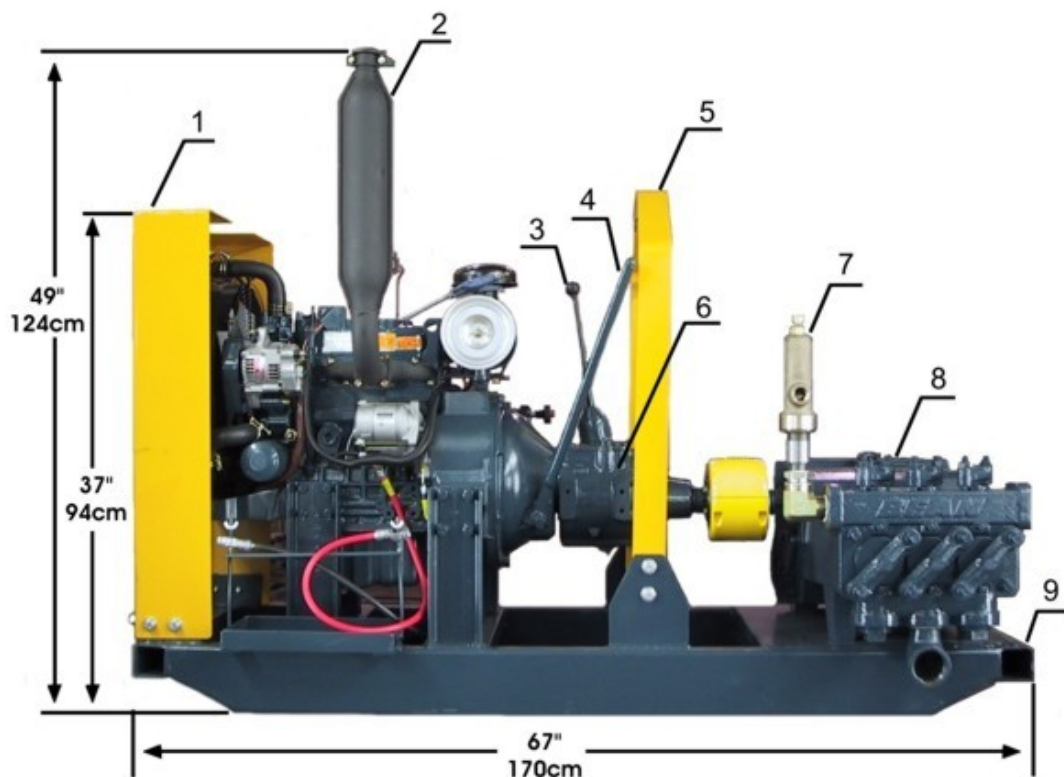


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## Mudmaster 435 DT Pump Unit

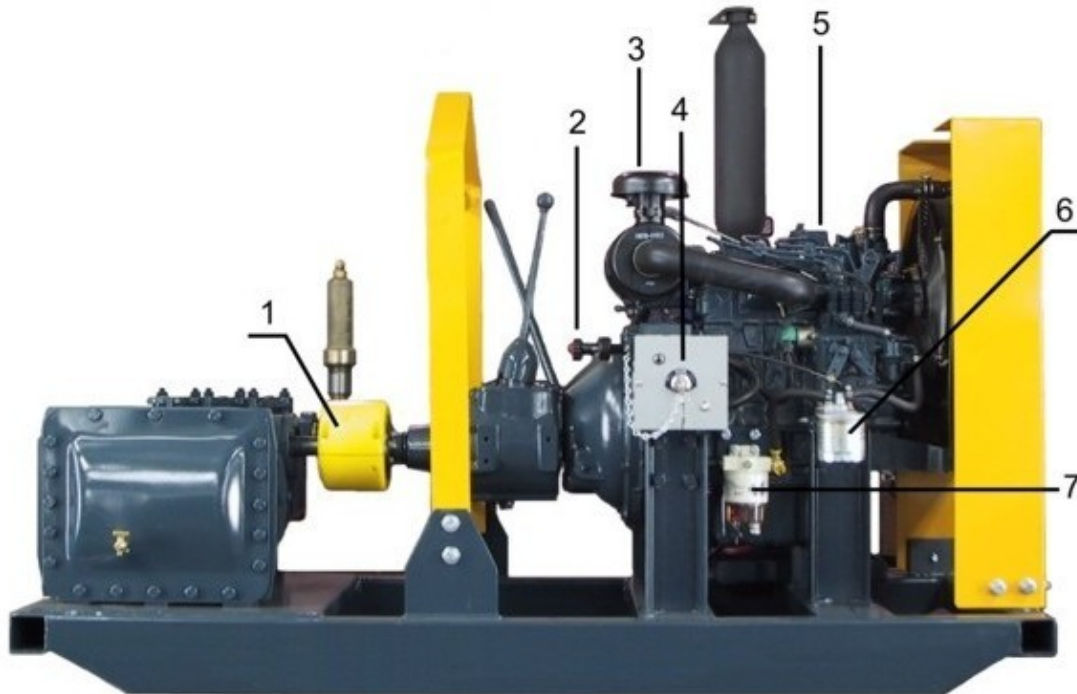
Left Hand Side (Viewed from pump end)



*Above dimensions are approximate*

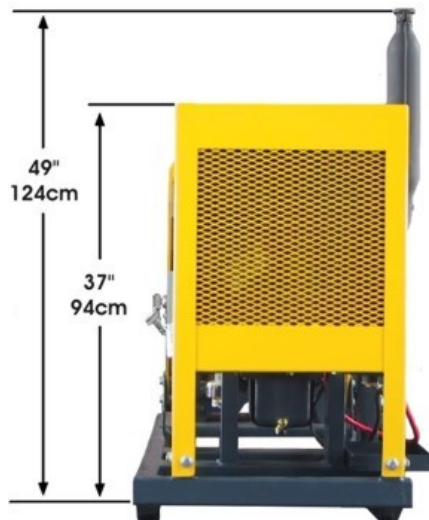
1. Heavy gauge removable radiator guard
2. Exhaust silencer shown in vertical position
3. Gear selector
4. Clutch actuator
5. Bolt-on single point lifting bail
6. Transmission assembly, four speeds, with integral reduction gear
7. Adjustable pressure relief valve
8. FMC (Bean Royal) W1122B-CD (435) pump assembly
9. Welded structural tube skid base

**Right Hand Side (Viewed from pump end)**



1. Coupling with guard
2. Throttle control
3. Dry type air cleaner with replaceable element
4. Start/Stop water resistant panel
5. Kubota 3 cylinder diesel engine
6. Spin-on replaceable fuel filter
7. Primary fuel filter/water separator

**Front View**



**Rear View**



## General Specifications – Model 435 DT

- Diesel powered high pressure pumping unit designed for continuous duty applications as a “mud pump” for diamond (core) drilling use.
- 264 kg / 1185 lb (with oil, without battery)

## Engine

- Kubota type D1105, three cylinder, liquid cooled diesel.
- Rated 19 continuous, 25 intermittent B.H.P @ 3000 RPM.
- 12 volt electric starting and charging system.
- Glow plug starting assist.
- Replaceable spin-on lube and fuel filters.
- Primary fuel/water separator.
- Dry type replaceable air filter.
- Fuel transfer and priming pump.
- Engine details are available on separate specification page.

## Transmission

- Mudmaster model 40M43 with integral reduction gear.
- Four forward speeds to provide pump input speeds of 192, 278, 500 and 833 RPM at 2500 engine RPM.
- 8” Automotive clutch assembly directly connected.
- Spicer type output flange positively aligned to heavy duty pump coupling with guard.

## Pump

- FMC (Bean Royal) model W1122B-CD
- \*Rated 37 U.S.G.P.M. @ 1000 P.S.I. (140 liters @ 68 BAR) with standard “core drill” style ball valves.
- Rated 50 U.S.G.P.M @ 1000 P.S.I. (190 liters @ 68 BAR) with optional disk valves (850 Pump RPM).
- Actual flow rates may vary with the site conditions:

| Flow Per Minute             |                             |                            |                            |
|-----------------------------|-----------------------------|----------------------------|----------------------------|
| First Gear                  | Second Gear                 | Third Gear                 | Fourth Gear                |
| Up to<br>11.3 USG<br>(43 L) | Up to<br>16.4 USG<br>(62 L) | Up to<br>29 USG<br>(112 L) | Up to<br>49 USG<br>(141 L) |

\* 50 GPM (190 L) with optional disc valves & 850 RPM pump speed (2500 engine).

## Other Features

- Welded structural steel base frame with coped ends for ease of transport and installation.
- Full flow, replaceable lube, fuel and air filters.
- Primary fuel filter/water separator.
- Fuel transfer and priming pump.
- Guarded coupling.
- Heavy construction, removable radiator guard.
- Bolt-on, structural steel, single point lifting bail.
- Easy access for service and maintenance.
- Adjustable pressure relief valve with steel plumbing.
- Fully load tested and serviced including lube oil and antifreeze.
- Enamel paint finish.
- One set of owner's manuals.

