

## CMP-2200

## Mud pump

## **FEATURES**

- Fabricated steel construction, highstrength power frame with rearor top-mounted drive motor
- Balanced, forged crankshaft for minimal vibration and increased life
- Premium roller bearings constructed of advanced materials that offer up to seven times service life in contaminated lubricant
- Replaceable crosshead guides in frame
- Pressurized oil lubrication system with easily accessible external lines for simplified maintenance
- Increased oil filtration with magnetic suction strainer and dual filter at pressure line
- Cooling system equipped with water or air heat exchanger
- Interchangeable fluid end modules with quick-change valve pot threaded covers
- Closed-loop pressurized freshwater liner wash system
- Suction manifold that can be equipped with front or side inlet connections
- Discharge piping that connects from either side
- Piston and liner chambers that are easily accessible and fully open
- NORSOK noise compliant

The CMP-2200 mud pump is a single acting reciprocating triplex mud pump built to accommodate high discharge pressure (7,500 psi maximum) and large mud fluid flow (up to 1,272 galUS/min). Building on the success of the Cameron W-2214 mud pump, the CMP-2200 mud pump was designed with an emphasis on increased reliability, improved maintainability, and reduced weight and footprint.

The CMP-2200 mud pump uses several advancements to improve pump reliability. The main bearings are constructed with advanced materials and treatments that can improve bearing life better than the previous generation. To increase drive strength, the CMP-2200 mud pump uses carburized and hardened gear tooth surfaces that resist pitting and wear. In addition, robust tube and shell heat exchangers are used to reduce the likelihood of leaks and downtime. The CMP-2200 mud pump is engineered to produce high flow rates, even at low operating speeds, which reduces stress and wear on components. The long stroke design reduces the number of load reversal in critical components and increases the life of fluid end parts.

Additionally, the strategic placement and improved serviceability of the mud pump's critical components enable safer and easier access during maintenance and inspection. The two-piece, quick-release piston rod enables removal of the piston without disturbing the liner, offering minimal downtime when replacing fluid parts. For added simplicity, all sensors, monitoring devices, and optional instruments are wired to a single junction box, saving time as compared with wiring the components individually.

The CMP-2200 mud pump frame has been redesigned to deliver superior strength and rigidity, with a 15% reduction in weight over the previous W-2214 model, reducing the weight and footprint. In addition, the pump's skid is now integrated into the structural frame to reduce its footprint, height, and weight.



## CMP-2200 Mud Pump Specifications

Stroke: 14 in [355.6 mm] Pump speed, strokes per minute (spm)			Gear ratio: 4.82, rated: 2,200 hp [1,641 kW] at 110 spm					
			110	100	90	80	70	60
Max. input, hp [kW] rating <sup>†</sup>			2,200 [1,641]	2,000 [1,491]	1,800 [1,342]	1,600 [1,193]	1,400 [1,044]	1,200 [895]
Liner size, in [mm]	Max. discharge pressure, psi [MPa]	Volume per stroke, galUS [L]	Output, galUS [L] <sup>‡</sup>					
9 [228.6]	2,667 [18.4]	11.567 [43.780]	1,272 [4,816]	1,157 [4,378]	1,041 [3,941]	925 [3,503]	810 [3,065]	694 [2,627]
81⁄2 [215.9]	2,990 [20.62]	10.317 [39.051]	1,135 [4,296]	1,032 [3,905]	929 [3,515]	825 [3,124]	722 [2,734]	619 [2,343]
8 [203.2]	3,376 [23.28]	9.139 [34.592]	1,005 [3,805]	914 [3,459]	823 [3,114]	731 [2,768]	640 [2,422]	548 [2,076]
7½ [190.5]	3,841 [26.48]	8.032 [30.403]	884 [3,345]	803 [3,041]	723 [2,737]	643 [2,432]	562 [2,128]	482 [1,824]
7 [177.8]	4,409 [30.4]	6.997 [26.484]	770 [2,914]	700 [2,649]	630 [2,384]	560 [2,119]	490 [1,854]	420 [1,589]
6½ [165.1]	5,114 [35.26]	6.033 [22.837]	664 [2,513]	603 [2,283]	543 [2,055]	483 [1,828]	422 [1,597]	362 [1,370]
6 [152.4]	6,001 [41.38]	5.141 [19.460]	565 [2,139]	514 [1,948]	463 [1,753]	411 [1,556]	360 [1,363]	308 [1,166]
51⁄2 [139.7]	7,142 [49.24]	4.320 [16.353]	475 [1,798]	432 [1,635]	389 [1,472]	346 [1,310]	302 [1,143]	259 [980]
5 [127.0]	7,500 [51.71]	3.570 [13.510]	393 [1,487]	357 [1,351]	321 [1,215]	286 [1,083]	250 [946]	214 [810]

<sup>†</sup> Based on 90% mechanical efficiency.

<sup>‡</sup> Based on 100% volumetric efficiency.

Note: All specifications are subject to change. Information important to a particular application should be verified by Cameron.

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