



# Weatherford®

## EQ-2200 Quintuplex Mud Pump

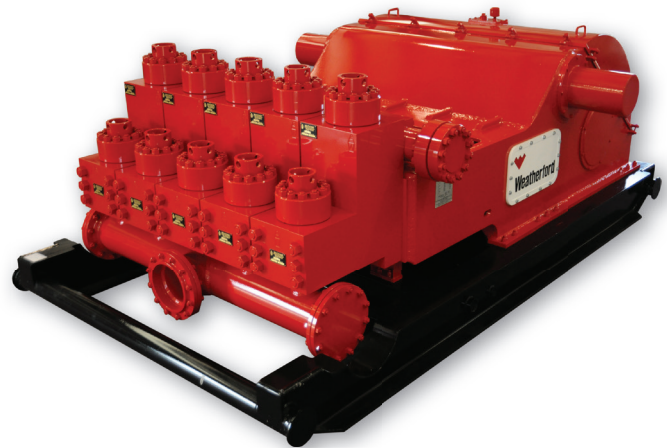
It's good to have a choice.

Weatherford's Ellis Williams EQ-2200 pump represents the next step in mud-pump evolution. Lightweight, compact EQ-2200 pumps are designed around a unique five cylinder, quintuplex frame that offers several advantages over industry standard conventional triplex pumps. Designed to meet demanding drilling program requirements, EQ-2200 pumps achieve significantly higher flow rates than triplex pumps and deliver them with smooth, low-pulsation performance characteristic of the quintuplex design. Best of all, EQ-2200 pumps offer conventional triplex pump durability and are just as easy for maintenance crews to service and maintain.

All of the above makes the EQ-2200 pump the ideal choice for today's offshore drilling environments.

### Features, Advantages and Benefits

- Increased performance envelope for higher flow rates
- Reduced pump operating pulse (fluid-flow variation) results in smoother operation and reduced vibration downstream
- Compact footprint uses less deck space
- Four main bearing design compared to two main bearings in triplex designs for reduced bearing loads
- Conventional design ensures durability and keeps maintenance procedures simple and straightforward



### Mud-Pump Comparisons

Specification	Mud Pump	
	EQ-2200	14P-220
Rated power (hp)	2,200	2,200
Maximum rated pressure (psi)	7,500	7,500
Stroke length (in., <i>cm</i> )	12 30.48	14 35.56
Maximum flow rate (gpm, <i>lpm</i> )	1,549 5,863	960 <sup>1</sup> 3,634
Maximum flow rate at 7,500 psi (gpm, <i>lpm</i> )	441 1,669	375 1,415
Total flow variation	7%	23%
Smallest rated liner, working pressure 7,500 psi, and liner weight (lb, <i>kg</i> )	230 104	320 145
Footprint (sq ft, <i>sq m</i> )	189 17.6	209.6 19.5
Bare pump weight (lb, <i>kg</i> )	67,500 30,617	86,000 39,000
Pump package volume <sup>2</sup> —Type 141M (cu ft, <i>cu m</i> )	2,889 82	3,011 79
Package weight <sup>2</sup> —Type 141M (lb, <i>kg</i> )	100,625 40,460	115,273 52,287
Pump package volume <sup>3</sup> —Type 101M (cu ft, <i>cu m</i> )	2,150 60.88	N/A
Pump package weight <sup>3</sup> —Type 101M (lb, <i>kg</i> )	89,060 42,438	N/A

<sup>1</sup>Maximum liner size is 8-in. for 960 gpm rating. A 1215 gpm flow rate can be achieved with a proprietary 9-in. liner retention accessory.

<sup>2</sup>Type 141M package—approximate based on typical designs using dual, top mounted AC motors, v-belt drive, in an offshore package configuration.

<sup>3</sup>Type 101M package—offshore package configuration includes EQ-2200 on master skid, permanent magnet motors, pressure relief valve, liner wash and externally mounted lube pump.

## Specifications

### Performance Ratings

EQ-2200		Pump speed (spm)	135	130	120	110	100	90
		Input power (HP, kW)*	2,239 1,671	2,156 1,609	1,991 1,485	1,825 1,361	1,659 1,237	1,493 1,114
Piston size (in.)	Rated pressure (psi, MPa)	Displacement (gal/rev)	Output (gal/min, bbl/min)					
7.50	2,230 15.4	11.475	1,549 36.9	1,492 35.5	1,377 32.8	1,262 30.1	1,147 27.3	1,033 24.6
6.50	2,975 20.5	8.619	1,164 27.7	1,120 26.7	1,034 24.6	948 22.6	862 20.5	776 18.5
6.00	3,475 24.0	7.344	991 23.6	955 22.7	881 21.0	808 19.2	734 17.5	661 15.7
5.50	4,125 28.4	6.171	833 19.8	802 19.1	741 17.6	679 16.2	617 14.7	555 13.2
5.00	5,000 34.5	5.100	688 16.4	663 15.8	612 14.6	561 13.4	510 12.1	459 10.9
4.50	6,150 42.4	4.131	558 13.3	537 12.8	496 11.8	454 10.8	413 9.8	372 8.9
4.00	7,500 51.7	3.264	441 10.5	424 10.1	392 9.3	359 8.5	326 7.8	294 7.0

\* Input power required assumes 90% mechanical efficiency.



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