



JR3500HD PUMP

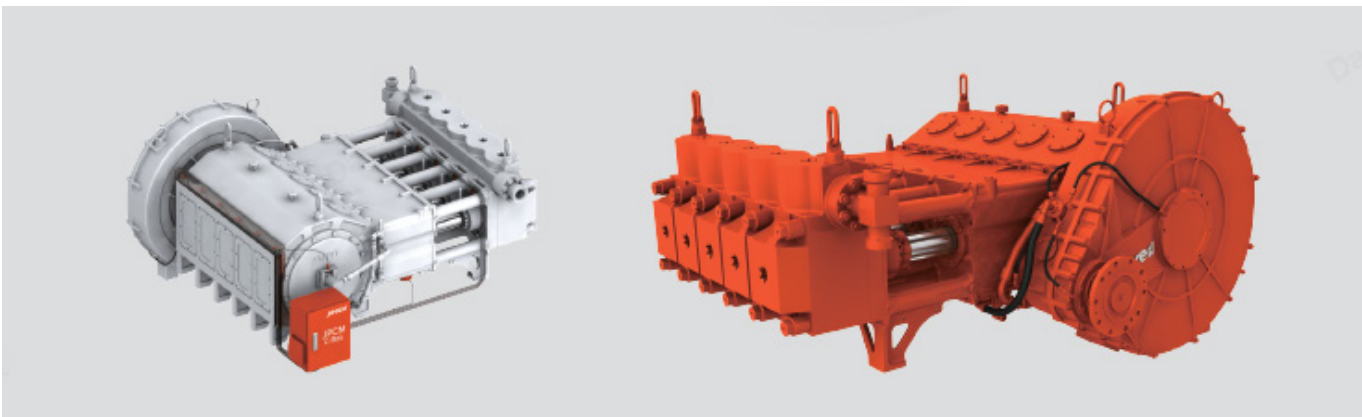
Built to Endure and Perform

Rising efficiency requirements, escalating equipment maintenance, and the high cost of continuous 24/7 frac jobs are significant challenges. Consequently, the need for a durable, versatile, and long-lasting pump has never been greater.

American Jereh International Corp. proudly presents the JR3500HD Frac Pump, designed to tackle industry challenges and provide outstanding performance through extended lifespan, reduced maintenance, and improved compatibility.

Designed for continuous duty, this pump is capable of handling a 3,500 bhp input. Its unique modular cast design eliminates the risk of cracking, a common failure point in conventional welded pumps. This innovative approach significantly extends the pump's lifespan, reducing downtime and lowering maintenance costs. The re-engineered integral herringbone planetary gearbox ensures smooth and even power transmission. It also minimizes wear and tear, further reducing the frequency of repairs. Notably the maintenance cycle for the power end is twice as long as that of a conventional pump.

Finally, the platform-based design of the 3500 HD supports both diesel and electric drives, thereby reducing spare parts inventory needs and lowering overall total cost of ownership.



Features and Benefits

- Fully casted power-end and gearbox casings eliminate the risk of cracking, a common failure point in conventional welded pumps, providing a lifespan of more than 24,000 hours.
- The 10" long stroke length reduces the wear rate of fluid end consumables by 30% under identical working conditions.
- The one-piece herringbone gear, free from a middle groove, offers a 200% reduction in vibration, with gear life exceeding 12,000 hours.
- The re-designed lubrication line achieves a 35% decrease in lubrication resistance, ensuring optimal lubrication of critical components while minimizing failure rates.
- Optional JPCM helps monitor the pump's running state in real time, preventing unexpected failures and reducing the risk of catastrophic malfunctions.

Technical Specifications

Brake Horsepower	4,000 bhp/2,983 kW
Stroke Length	10 in. / 254 mm
Max. Rod Load	268,269 lbf/1,193 kN
Gear Ratio	7.8:1
Weight	9,500 kg / 20,925 lbs
Dimensions	2,371 x 2,346 x 1,116 mm/93.35 x 92.36 x 43.94 in.

Performance Data

Plunger Diameter in (mm)	Output gal/rev (L/rev)	Displacement at Pump Strokes per Minute											
		60		100		140		180		220		250	
		gpm L/min	psi (MPa)	gpm L/min	psi (MPa)	gpm L/min	psi (MPa)	gpm L/min	psi (MPa)	gpm L/min	psi (MPa)	gpm L/min	psi (MPa)
3 3/4 95.25	2.39 9.05	143 543.0	24,289 167.3	239.0 904.9	24,289 167.5	335 1266.39	18,436 127.1	430 1628.9	14,339 98.9	526 1,990.9	11,732 80.9	598 2,262.4	10,324 71.2
4 101.60	2.72 10.30	163 617.8	21348 147.2	272 1,029.6	21348 147.2	381 1441.5	16204 111.8	490 1853.3	12603 86.9	598 2265.2	10311 71.1	680 2574.1	9074 62.6
4 1/2 114.30	3.44 13.03	207 781.9	16868 116.3	344 1303.1	16868 116.3	482 1824.4	12803 88.3	620 2345.6	9958 68.7	757 2866.9	8147 56.2	861 3257.8	7170 49.4
5 127.00	4.25 16.09	255 965.3	13663 94.2	595 2252.3	10370 71.5	765 2895.8	8066 55.6	935 3539.3	8066 55.6	935 3539.3	6599 45.5	1063 4022.2	5807 40.1
Max Breaking Power (BHP/KW)		2259 / 1684		3,764 / 2,807		4,000 / 2,983		4,000 / 2,983		4,000 / 2,983		4,000 / 2,983	
Input Speed (RPM)		468		780		1,092		1,404		1,716		1,950	

Note: Above data is based on 90% ME & 100% VE.

Performance Curve

