

Triplex Single Acting Piston Mud Pump

These mud pumps deliver F series triplex single acting piston pumps from 500HP up to 2200 HP. The pumps are engineered to circulate drilling mud, a critical component in oil and gas exploration.



ADDITIONAL IMAGES



Overview

High-Performance Triplex Mud Pumps

These F-series triplex single-acting piston mud pumps are engineered for demanding drilling environments, offering a power range from 500HP to 2200HP. Designed with a focus on reliability, the power end features a high-strength, precisely machined frame and heat-treated crankshaft for extended operational lifespan. The units offer versatile drive options including belt, chain, or gearbox configurations, and are compatible with various motor types, ensuring seamless integration into existing drilling setups.

Performance Specifications

Key Performance Metrics

500 HP

Minimum Power

2200 HP

Maximum Power

7500 psi

Max Discharge Pressure

Technical Data

Technical Parameters

Pump Model	3N3-500F HHF-500	3N3-800F HHF-800	3N3-1000F HHF-1000	3N3-1300F HHF-1300	3N3-1600F HHF-1600	3N3-2000 HHF-2000	3N3-2200 HHF-2200
Max. Input	373 kW	567 kW	746 kW	969 kW	1,193 kW	1,462 kW	1,641 kW
Max. Pump Speed	300 SPM	190	140	120	120	120	105
Stroke Length	190.5 mm	228.6 mm	254 mm	304.8 mm	304.8 mm	304.8 mm	355.6 mm
Gear Ratio	4.266:1	4.185:1	4.207:1	4.206:1	4.206:1	4.206:1	3.906:1
Gear Type	Herringbone						
Fluid End Module	T TYPE	T TYPE	T TYPE	T TYPE	T TYPE	L TYPE	L TYPE
Max. Line Size	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	1 1/2 in	2 1/2 in
Rated Displacement	35.67 L/S	38.92 L/S	40.38 L/S	46.54 L/S	46.54 L/S	46.54 L/S	77.65 L/S
Max. Discharge Pressure	27.2 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi	7,500 psi	7,500 psi
Wear Steel	100 mm	100 mm	110 mm	130 mm	140 mm	130 mm	130 mm
Valve Flat	4 in	4 in	4 1/2 in	5 in	5 1/2 in	5 in	5 in
Station Connection Bore	8 in	10 in	12 in	12 in	12 in	12 in	12 in
Discharge Connection Bore	AP 4 1/16"	AP 5 1/8"	AP 5 1/8"	AP 5 1/8"	AP 5 1/8"	AP 5 1/8"	AP 5 1/8"
Pump Weight (with steel)	19,720 kg	14,500 kg	18,010 kg	25,850 kg	26,100 kg	29,430 kg	42,250 kg
	21,539 lbs	31,967 lbs	41,089 lbs	56,989 lbs	57,541 lbs	63,811 lbs	93,006 lbs

Comprehensive technical specifications for the full range of HHF mud pump models.

Pump Model Specifications

Model	Max Input (HP)	Stroke Length (in)	Max Pressure (psi)
HHF-500	500	7 1/2	3820
HHF-800	800	9	5000
HHF-1000	1000	10	5000
HHF-1300	1300	12	5000
HHF-1600	1600	12	5000
HHF-2000	2000	12	7500
HHF-2200	2200	14	7500

Design Features

Key Design Features

- High-strength, precisely machined power end frame
- Forged, heat-treated crankshaft
- Hardened drive gear surfaces for longer lifespan
- Interchangeable fluid end and consumables
- Optional 'L' type fluid end for high-pressure upgrades (7500 psi)

Compatibility & Options

Available Options

Western brand bearing set, Relief valve, Pulsation dampener, Liner spray pump, Pre-charge pump, Multiple drive options (Belt/Chain/Gearbox)