

# 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 500 HP	567 800	746 1,000	969 1,300	1,193 1,600	1,492 2,000	1,641 2,200
Max. Pump Speed	SPM 165	150	140	130	120	100	105
Stroke Length	mm 190.5 7 1/2	228.6 9	254 10	304.8 12	304.8 12	304.8 12	355.6 14
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	mm 170 6.34	170 6.34	170 6.34	190 7	190 7	190 7	230 9
Rated Displacement	L/S 35.67	38.92	40.38	46.54	46.54	46.54	77.65
Max. Discharge Pressure	psi 575	627	651	750	750	750	959
Max. Discharge Pressure	MPa 27.2	35	35	35	35	52	52
Wear Steel	mm 100	100	110	130	140	130	130
Valve Flat	in 4	4	4 1/2	5	5	5 1/2	5
Station Connection Bore	in 8	10	12	12	12	12	12
Discharge Connection Bore	API 4 1/16"	API 5 1/8"	API 5 1/8"	API 5 1/8"	API 5 1/8"	API 5 1/8"	API 5 1/8"
Pump Weight (with steel)	kg 37,20	44,000	41,889	50,850	55,100	29,600	42,250
	lbs 21,539	31,067	41,889	56,989	57,541	63,811	83,006

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)