

Mud Pump

A mud pump is a large pump applied to move heavy drilling fluid, known as mud, within a hole when drilling for oil. The pump circulates the mud by pushing it down into the hole and then moving it back up again. Mud pumps are reciprocating pumps, meaning that they use oscillating pistons or plungers to displace the fluid. A mud pump is a single acting pump, so the fluid will move in only one direction. A hole, or well, is drilled into the ground, and the mud is pushed by the mud pump down piping to the bottom of the hole. The pressure then forces the mud up the annulus, or the space that surrounds the piping.

General Features



FZ series Kelly are used to connect the topmost joint of drill pipe for drill stem turning when the rotary table runs. Suitable for onshore and offshore drilling.

Details

The F series [mud pumps](#) were developed to provide the market with more reliable technology and more hoisting performance. Long stroke length could reduce the number of stroke, which will improve the drawing performance and extend the life of fluid end. The lubrication system combined forced lubrication with splash lubrication which provide reliable lubrication for the whole system. Included but not limited by the advantages mentioned, YG series of hook blocks might be your best choice.

General Features

- Manufactured according to API 7K
- Suitable for onshore or offshore rigs
- Forced lubrication and splash lubrication combined provide reliable lubrication
- Long stroke length extend the life of wearing parts.
- Strong structure, small dimensioned, good performance, long last life

Main Paramaters

Input Power: 500 hp – 2200 hp (373 KW- 1640 KW)

Working Pressure: 1300 psi – 3600 psi (9.2 MPa – 25.3 MPa)

Working Flowrate: 48 gal – 137 gal (12.7 L/s – 36.2 L/s)

Parameters:

Model	F-500	F-800	F-1000	F-1300	F-1600
Type	Triplex Single Acting	Triplex Single Acting	Triplex Single Acting	Triplex Single Acting	Triplex Single Acting
Rated Power hp (kw)	500 (373)	800(596)	1,000(735)	1,300(969)	1,600(1,193)
Rated Speed (rpm)	165	150	140	120	120
Stroke in(mm)	7-1/2(190)	9(228.6)	10(254)	12(305)	12(305)
Max. Liner Dia. in(mm)	6-3/4(170)	6-3/4(170)	6-3/4(170)	7(180)	7(180)
Gear Type	Herringbone	Herringbone	Herringbone	Herringbone	Herringbone
Valve Pot	API-5 #	API-6 #	API-6 #	API-7 #	API-7 #
Gear Ratio	4.286:1	4.185:1	4.207:1	4.206:1	4.206:1
Suction Inlet in(mm)	8(203)	10(254)	12(305)	12(305)	12(305)
Discharge Inlet	4"Flange 5,000 psi	5"Flange 5,000 psi	5"Flange 5,000 psi	5"Flange 5,000 psi	5"Flange 5,000 psi
Lubrication	Forced & Splash	Forced & Splash	Forced & Splash	Forced & Splash	Forced & Splash
Max. Pressure Psi(MPa)	3,945 (27.2)	5,000(34.5)	5,000(34.5)	5,000(34.5)	5,080(35)
Overall Size(in)	144x106x86	156x79x66	163x89x70	174x121x78	181x129x106
Weight(kg)	9,770	14,500	18,790	24,572	24,791