



Mud Pump and Parts



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Design Features of F Serial Mud Pump

- Fserial mud pump has longer stroke, which makes it able to be used under lower punching number to prolong the use life of sensitive parts in fluid end .
- The combination lubricating method of forced lubrication and spray lubrication ensures the more effective lubrication.
- The durable and compact F serial mud pump with advanced structure improves pump's stable operation. It can meet special demands of customers in middle & deep drilling works.
- It's small and durable. The injection valve and bleed valve can change mutually, so can the three cylinders of each pump and main parts of fluid end.
- The durable fluid end of F serial mud pump improves the performance of triplex mud pump greatly. Besides, its independent design is convenient to be examined and maintained.



Introduction

China Komal International Co., Ltd is one of the leading foreign trade companies specialized in supply of Oil Field Equipment and Services. Since its foundation in year 2012, Komal International has made very good use of its strong technology and devoted to provide and export high quality petroleum equipment such as Mud Pump, and Pump spare parts, drill and casing pipes, seamless pipes, solid control equipment include shale shakers, centrifuges, screen, down hole tools, well tools, BOP and parts, and rig parts and so on.

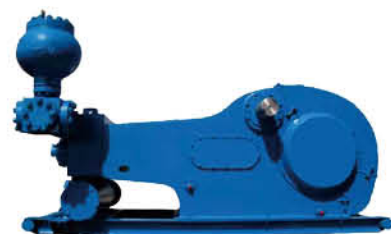
Upon requests from customers, Komal International also provides customized products to satisfy different customers and meet their needs .With rapid development of years, Komal International has established excellent management, sales and service system, exported products to USA, UK, Germany, Saudi Arabia, Mid-East, Iran, Kazakhstan, Indonesia, Sri-Lanka and countries in Mid-Asia and South-east Asia.

Komal International has set up a very strong sales net and got very good reputation and trust from customers. At Komal International, our mission is to satisfy customers' needs with high quality products, good reputation, the best price and best service.

Model	F-500	F-800	F-1000	F-1300	F-1600	F-2200
Max. input rating(kw)	500(373)	500(373)	1000(746)	1300(969)	1600(1193)	1600(1193)
Rated pumping speed spm	165	150	140	120	120	100
Max.liner internal diameter in.(mm)	63/4 " (171)	63/4 " (171)	63/4 " (171)	7 " (177.8)	7 " (177.8)	8 " (203)
Stroke in.(mm)	71/2 " (191)	9 " (229)	10 " (254)	12 " (304.8)	12 " (304.8)	15 " (381)
Cylinder hydraulic testing pressure psi(kg/cm2)	7500(527)	7500(527)	7500(527)	7500(527)	7500(527)	7500(527)
Transmission ratio	4.38:1	4.31:1	4.32:1	4.31:1	4.3:1	4.27:1
Injection pipe diameter in.	8 "	10 "	12 "	12 "	12 "	-
Off take pipe diameter	4 "	5 "	5 "	5 "	5 "	-
Valve specification	API 5	API 6	API 6	API 7	API 7	API
Weight(excluding pulley) (kg)	19900(9,027)	26,603(12,067)	33,770(15,318)	45,650(20,707)	46,820(21,238)	79,600(36,108)

3NB Mud Pump

Design Feature of 3NB Serial Mud Pump



- Power point: The shell is of plate welding structure, which eliminates internal stress after welding. The power point transmission gear is involute gear type, which is of stable operation, high proficiency and long use life. The crank is a hollow complete cast, and way of lubricating is spray lubrication.
- The bottom of the valve hole has steps to prevent clack seat from falling. The piston and liner is cooled and lubricated by an independent spray pump equipment, which boasts long use life.
- The piston and in-between beam are connected by lathe dog, which can achieve rapid installing and moving.
- Liquid point: The injection and out letting flange accords with ASA&API regulations.
- The sensitive parts has strong commonality.

3NB Serial Mud Pump Basic Parameter

Model	3NB500C	3NB1000C	3NB1300C	3NB1600
Power rating KW(ps)	368 (500)	735 (1000)	956 (1300)	1176(1600)
Punching number spm	95	110	120	120
Stroke mm	254	305	305	305
Gear transmission ratio	3.82	3.833	3.81	3.81
Rotor axle revolutions r/min	363	423	457	457
Max working pressure MPa	30	35	35	35
Max.liner diameter mm	160	170	180	190
Injection pipe diameter mm	254	305	305	305
Out-letting diameter mm	100	100	100	100
Shape size(length*width*height mm)	4220 × 2640 × 2430	5170 × 2809 × 2530	5010 × 1942 × 1918	4450 × 2850 × 2077
Weight (kg)	15940	21450	23000	29700

High Chrome Bi-Metal Liner



Bi-metal Liners is the main expendable parts of the mud pump, it adapts double metal fix together. the outer sleeve is forged steel with quality carbon steel, the inner sleeve is casted with high carbon and high chromium, use the technology of centrifugal casting. The hardness can reach to 62 HRC after heat treatment.

In order to assure the easy installation, tolerance is controled strictly. Inner sleeve is highly polished with abrasion & corrosive resistance, can be used in various bad working environment with longer service life over 800 hours.



Models and Parameters of Liners



"Mud pump Model"	F800/1000	F1300/1600	SL3NB-1300A	F1600HL	3NB-1300C	PZ6/7	PZ8/9	PZ10/11	9P100/10P130	12P160	T1000	T1300/1600	UNB600	NBT600	UNBT950	UNBT1180L	UNBT1180	8T310	8T650
Drawing																			
weight (kg)																			
1	φ 100	69	109	96	109	125	/	/	/	/	/	/	/	/	/	/	/	21.4	84.5
2	φ 110	62	100	87	100	115	/	/	/	/	/	/	/	/	/	/	/	17.5	80.3
3	φ 120	56	94	80	93	105	/	/	/	/	/	/	140.6	72.5	73.3	/	160	/	77
4	φ 130	50	86	74	86	100	/	/	/	/	/	/	130.6	66.5	67	77	148	/	71
5	φ 140	44	80	67	80	95	/	/	/	/	/	/	120.8	60	60.5	69.5	137.4	/	65
6	φ 150	38	71	60	72	88	/	/	/	/	/	/	110.3	53	53.3	63.1	126	/	58.3
7	φ 160	31	63	53	64	80	/	/	/	/	/	/	99	45.3	45.6	56.3	114	/	53
8	φ 170	25	55	45	56	70	/	/	/	/	/	/	87	37.1	37.5	49.1	101	/	45.3
9	φ 5"	52.1	90	/	91	/	40	47	78	67.3	107	77	106	/	/	/	/	/	72.9
10	φ 5 1/2"	44.5	80	/	80	/	38	41	70	59	97	69	98	/	/	/	/	/	65
11	φ 6"	36.1	70	/	70	/	31	34	62	50	86	60	89	/	/	/	/	/	58.3
12	φ 6 1/2"	28	60	/	60	/	24	26	53	39	75	50	77	/	/	/	/	/	52
13	φ 7"	/	52	/	52	/	18	20	44	/	63	42	66	/	/	/	/	/	45.3

MUD PUMP SPARE PARTS



DISCHARGE LINE



CRANK SHAFT ASSEMBLY



DISCHARGE CROSS



FLUID CYLINDER SSEMBLY



BELT PULLY



CONNECTION ROD



BLG GEAR RING



VALVE AND SPING



ECENTRIC GEAR BEARING



MAIN SHAFT BEARING



CROSSHEAD BEARING



LOWER GUIDER

MUD PUMP SPARE PARTS



SMALL GEAR ASSEMBLY



BAFFLE



PLUG BOARD ASSEMBLY



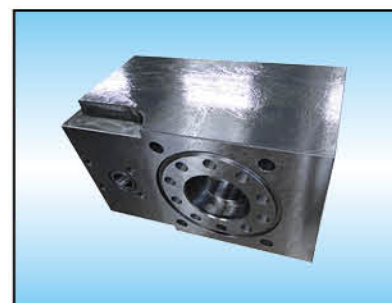
PUMP SHELL



PISTON ROD



PISTON ROD CLAMP



CYLINER



LINER GLAND



LINER FLANGE



CYLINDER COVER



WEAR-RESISTANT PLATE



VALVE DECK

MUD PUMP SPARE PARTS



AIR BAG ASSEMBLY



PRESSURE GAUGE



EXTENSION ROD



SHEAR TYPE SAFTY VALVE



CROSSHEAD BAFFLE



BOLTS



LINER



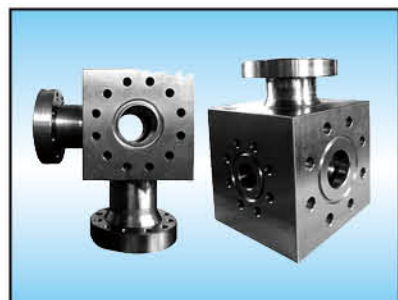
SUCTION AIR BAG CAPSULE



SUCTION END COVER



LOWER GUIDE PLATE



FIVE WAYS



OUTLET VALVE ASSEMBLY

MUD PUMP SPARE PARTS



BEARINGS



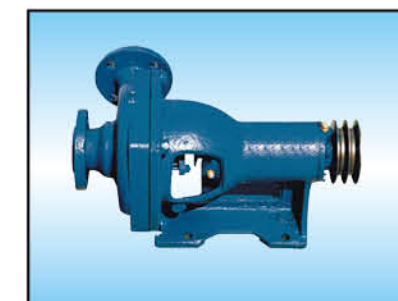
CYLINDER HEAD PLUG



PISTONS



SAFTY VALVE



SPRAY PUMP



SPRING



VALVE SETS



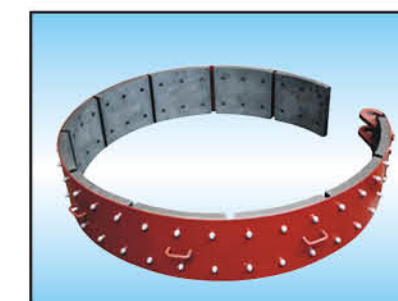
FRICITION PLATE



AIR TUBE CLUTCH



CLUTCH STEEL RING



BREAK BANDS



VENTILATED AIR TUBE CLUTCH

BOP AND SPARE PARTS



ANNULAR BOP



SINGLE RAM BOP



FOUR WAYS



DOUBLE RAM BOP



BOP PARTS



BOP PARTS



BOP PARTS



BOP PARTS



BOP PARTS



CASING HEAD



FLANGES



BELT WHEEL

THE BIGGEST PUMP PARTS WAREHOUSE IN CHINA



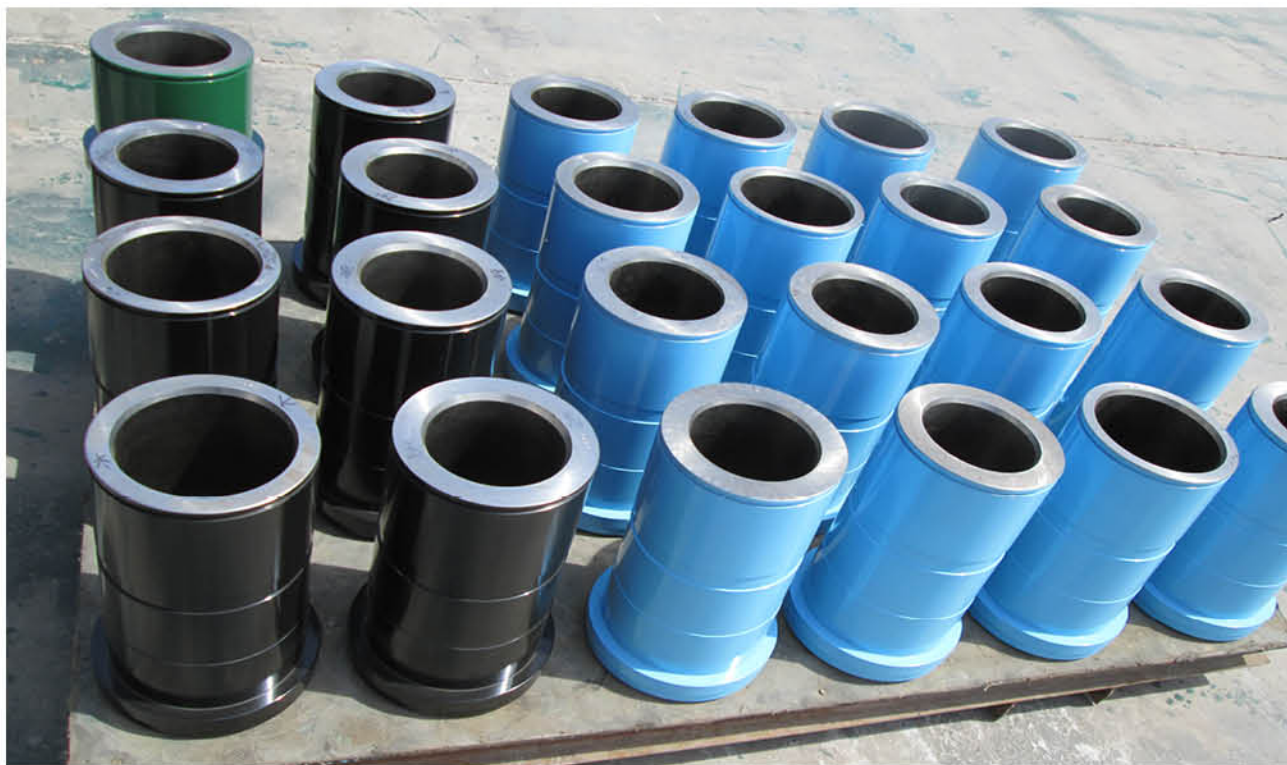
THE BIGGEST PUMP PARTS WAREHOUSE IN CHINA



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THE BIGGEST PUMP PARTS WAREHOUSE IN CHINA



MUD PUMP REPAIR AND REFABRICATION



WORKSHOPS AND EQUIPMENT



1.6m Verticallathe



2.5m Verticallathe



TPX61110 Conventional borer



TPX61130 Conventional borer



T6916 Horizontal borer



Numerical control borer



CW-61160 Horizontal Lathe



Numerical control plasmacutting machine

WORKSHOPS AND EQUIPMENT



CNC electric furnace



Heat treatment furnace



Gear hobber



Y320 Gear Hobber



Plain grinder



External cylindrical grinder



CNC Lathes



Workshop of rubber products

WORKSHOPS AND EQUIPMENT



Workshop of pump liner



Workshop of spare parts



Molding workshop



Case



Sand blasting workshop



Painting workshop



Intelligent pressure testing bench



Carbon and sulfur analyzer

WORKSHOPS AND EQUIPMENT



Tri-elements colorimetric analyzer



Laboratory



Hardness testing



Metal material tension tester



Mechanical testing



Multi-function tester



Internal Mixer



Vulcanizers