

BRIEF INTRODUCTION

Centrum Petroleum Machinery Limited Company (CPMC) has been proudly supplying Drilling Equipment to the oilfield since 2007.

Through our Domestic and International distribution network we have been selling our products worldwide with high customer satisfaction.

CPMC Drilling Equipment is designed to meet the requirements of a wide range of applications.

Pumps: 165HP to 1600HP
Block/Hook Combinations: 80 to 500 Tons
Swivels: 150 to 500
Tons Rotary Tables: 17-1/2" thru 37-1/2"

Centrum Petroleum Machinery Limited Company owns a manufacturing plant and has joint ventures and/or partnerships with several other manufactures. All of our products are manufactured under API and/or ISO approved manufacturing facilities accepted under a 2-tier quality system.

We are in direct and constant communication with our manufacturers to maintain the high quality standards our customers have come to expect.

We maintain a large inventory of replacement parts for all our products as well as certain OEM products.

Contact CPMC (<http://www.cpmc-cn.com/>) for more information about your next project. Our knowledgeable sales staff can answer all your questions when planning your next program.



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TRAVELING BLOCK

DESIGN FEATURES

- ◆ Unitized traveling block and hook reduces the overall length to help satisfy the requirements of operating a top drive.
- ◆ Hinged heavy-gauge steel plate sheave guards can be opened quickly with ease for fast line spooling.
- ◆ Sheave bearings are individually lubricated double-tapered rollers.
- ◆ Internal hydraulic snubber (shock absorber) to reduce impact on tool joints.
- ◆ Includes a positioner lock that allows rotating the elevator to the correct position for the derrickman.



**Traveling Block Are Manufactured For CPMC
Under API License 8C-0065, Specification 8C at PSL-1**

MODEL	YC-90	YC-135	YC-170	YC-225	YC-315	YC-450	YC-585
Max hood load (ton)	9	13	17	22	31	45	58
O.D. of sheaves (in)	30	36	36	44	50	60"	60
Number of Sheaves	4	4	5	5	6	6	7
Dia. of wire line (in)	1	1	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-5/8"
Overall dimensions (LxWxH) (in)	1500x806x53 3	1800x960x61 0	2100x960x630	2294x1190x 630	2680x1350x97 4	3075x1600 x800	3100x1600 x965
Weight (lbs)	181	2200	3010	3805	6842	8135	9600

BLOCK-HOOK

DESIGN FEATURES

- ◆ Unitized traveling block and hook reduces the overall length to help satisfy the requirements of operating a top drive.
- ◆ Hinged heavy-gauge steel plate sheave guards can be opened quickly with ease for fast line spooling.
- ◆ Sheave bearings are individually lubricated double-tapered rollers.
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**Block Hook Are Manufactured For CPMC
Under API License 8C-0065, Specification 8C at PSL-1**

MODEL	YG-80	YG -110	YG -120	YG -150	YG -200	YG -250	YG -350
Max hood load (ton)	8	11	12	15	200	25	35
O.D. of sheaves (in)	2	2	2	3	36"	36".44"	4
Number of Sheaves	3	4	4	4	5	5	5
Dia. of wire line (in)	1"	1"	1"	1 "	1-1/8" 1-1/4"	1-1/4"	1-1/4"
Major hook opening	6-1/2"	6-1/2"	7-1/2"	6	7"	7-1/2"	7-1/2"
Spring travel (in)	4-3/4"	4-3/4"	4-3/4"	6-1/2"	5-1/2"	7	7
Overall dimensions (LxWxH) (in)	83"x26"x16"	95"x28"x24"	100"x28"x28"	116"x33"x23"	134"x38"x26"	142"x38(46)x31"	106"x53"x38"
Weight (lbs)	320	410	452	690	10130	13500	14800

ROTARY SWIVEL

DESIGN FEATURES.

- ◆ Equipped with standard bails.
- ◆ The washpipe and packing assembly are cartridge type and can be replaced without disconnecting the rotary hose and/or gooseneck.
- ◆ Floating washpipe design for even wear. Main bearing is an extra-heavy tapered roller design.
- ◆ Equipped with 4" API hose connection.
- ◆ Extended lower stem



**Rotary Swivels Are Manufactured For CPMC
Under API License 8C-0065, Specification 8C at PSL-1**

MODEL	SW-150	SW-200	SW-250	SW-350	SW-500	
Max Static Load Rating (ton)	150	200	250	350	5	
Max Speed (r/min)	300	300	300	300	3	
Max Working Pressure (PSI)	5000	5000	5000	5000	5	
Diameter of Stern (in)	5-1/2"	6-1/2"	7-3/4"	7-3/4"	7	
Washline Size (in)	2-1/2"	2-3/4"	3"	3"	3	
Con necti	Steam Coupling	4-1/2" REG LH	4-1/2" REG LH	6-5/8" REG LH	6-5/8" REG LH	7-5/8"
	Sub, Double Pin	4-1/2" REG,	4-1/2" REG,	6-5/8" REG LH	6-5/8" REG LH	7-5/8"
	Gooseneck	4" I.P	4" I.P	4" I.P	4" I.P	4
Overall Dimension (LxWxH) (in)	85" x 25" x 25"	112" x 33" x 30"	117" x 42" x 34"	119" x 41" x 39"	124" x	
Weight (lbs)	1713	2425	5512	5952	5	

ROTARY TABLE

DESIGN FEATURES

- ◆ Rotary table shaft extension and its central hole conform to API-7K.
- ◆ Pin transmission type suitable for API Standard Square or Hexagonal Kelly roller bushing.
- ◆ Double lock system for forward and reverse rotation.
- ◆ Master Bushings and insert bowls are of an OEM equivalent.



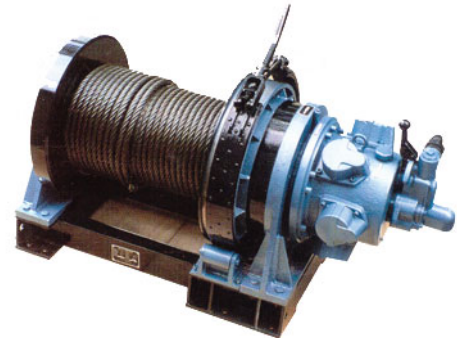
**Rotary Table Are Manufactured For CPMC
Under API License 7K-0079**

MODEL		RT175-44	RT205-44	RT205-53	RT275-53	RT375-53
Dia. of Opening	in	17-1/2"	20-1/2"	20-1/2"	27-1/2"	37-1/2"
Table axis center to inner row sprocket teeth	in	44"	44"	53-1/4"	53-1/4"	53-1/4"
Static load rating	ton	250	350	350	500	65
Max working torque	lbf-ft	10132	16646	16635	20265	23883
Max speed	rpm	350	300	300	300	30
Gear ratio		3.75	3.79	3.22	3.67	3.5
Dimensions LxWxH	in	78" x 54" x 22"	78" x 56" x 24"	87" x 56" x 24"	94" x 66" x 27"	97" x 71" x 28"
Weight	lb	8572	9920	11023	13460	17534

AIR WINCHES

DESIGN FEATURES

◆ **JQH series** Air winches are designed under the guide of "Ingersoll Rand" technology and working principal with light weight, compact construction, easy operation and maintenance.



◆ Stepless speed regulation.

◆ Introduction of Remote control system in Air winchese designs.

◆ Equivalent performance to Ingersoll Rand BU7A and K6UL series products

.MODEL	JQH5/12-I & II	JQH5/48 I & II	JQH10/24 I & II	JQH20/24 I	JQH30/20 I	JQH50/12 I
Rated pull (lb)	1100	1100	2204	4408	6612	11020
Rope speed (meter per	12	48	24	24	20	12
Size of rope (mm)	7.7	8	11	16	20	24
Capacity of rope (meter)	40	120	100	160	250	200
Air inlet pipe size (mm)	15	25	25	38	38.1	38.1
Air consumption (CFM)	67	-	67	-	67	-
Weight (lb)	104	258	357	968	1518	2530
Overall Dimensions (mm)		668*343*420	740*397*536	1000*530*765	1530*690*870	1691*745*955

PISTON & CYLINDER



DRILLING STEEL ROPE

DESIGN FEATURES

◆ Standard 6 x 19 and 6 x 36 classification ropes

The 6 x 19 classification of wire ropes includes standard 6 strands, round strand ropes with 16 through 26 wires per strand. The 6 x 36 classification of wire ropes includes standard 6 strands, round strand ropes with 27 through 49 wires per strand. Although their operating characteristics vary, all have the same weight per foot and the same minimum breaking force, size for size.



While the 6 x 19 ropes give primary emphasis to abrasion resistance in varying degrees, the 6 x 36 ropes are important for their fatigue resistance. This fatigue resistance is made possible by the greater number of small wires per strand.

◆ 6x19 classification ropes

6x19S (Seale) in this construction, each strand has nine outer wires over nine smaller inner wires over one large center wire. A comparison of cross-sections shows that these outside wires are larger than those of the 6 x 25FW or 6 x 26WS. Therefore, its resistance to abrasion is increased, but its fatigue resistance is decreased. This is a good rope to withstand abrasion or crushing on the drum.

6x25FW (Filler Wire) To most wire rope users, 6 x 19 means 6 x 25 filler wire. It was the most common rope in the 6 x 19 classification. This rope has a good balance between both abrasion resistance and fatigue resistance in relation to other ropes.

6x26WS (Warrington Seale) this construction has better resistance to abrasion than a 6 x 25FW. It also features a compact construction with solid support for the wires; hence, it has a high resistance to crushing. Its number and relative size of the inner wires add to the stability of the strand and gives it a fatigue resistance comparable to a 6 x 25FW.

A standard 6 x 26WS construction provides the best rope for a wide range of applications. In general, we recommend the use of a 6 x 26WS in any application where a 6 x 25FW is used.

In most rope sizes, only one 6 x 36 classification rope is made. These constructions were selected to provide fatigue resistance without having wires that are too small.

The greater number of wires in the 6 x 36 classification makes these ropes more susceptible to crushing. This can be minimized, however, by specifying an Independent Wire Rope Core (IWRC) and by using well-designed sheaves, grooved drums and proper operating techniques.

◆6x19S+FC

Diam.		Met. area	Mass	Outer Wire	Minimum Breaking Load		
					PS	IPS	EIPS
in	mm	mm ²	kg/m	mm	kN	kN	kN
1/2	13.0	68.7	0.63	1.03	83	95	105
9/16	14.5	85.4	0.79	1.15	106	120	132
5/8	16.0	104.0	0.98	1.27	129	149	163
3/4	19.0	146.7	1.41	1.51	184	212	233
7/8	22.0	196.7	1.92	1.75	249	286	315
1	26.0	274.7	2.50	2.07	324	372	409
1 1/8	29.0	341.8	3.17	2.31	407	468	514
1 1/4	32.0	416.2	3.91	2.55	500	575	632
1 3/8	35.0	497.8	4.73	2.78		691	760
1 1/2	38.0	586.8	5.63	3.02		818	898
1 5/8	42.0	716.9	6.61	3.34		952	

◆6x26SW+IWRC

Diam.		Met. area	Mass	Outer Wire	Minimum Breaking Load		
					PS	IPS	EIPS
in	mm	mm ²	kg/m	mm	kN	kN	kN
in	mm	mm ²	kg/m	mm	kN	kN	kN
5/8	16	119	1.07	1.17		159	183
3/4	19	168	1.55	1.39		228	262
7/8	22	225	2.11	1.61		308	354
1	26	314	2.75	1.90		399	460
1 1/8	29	391	3.48	2.12		503	678
1 1/4	32	476	4.30	2.34		617	711
1 3/8	35	570	5.21	2.56		743	854
1 1/2	38	672	6.19	2.78		880	1010
1 5/8	42	820	7.26	3.07		1020	1170
1 3/4	45	942	8.44	3.29		1180	1360
1 7/8	48	1072	9.67	3.51		1350	

DRILLING HOSE

DESIGN FEATURES.

◆ The hose is composed of five layers as below:

- Inner Rubber layer
- Protection Layer
- Middle rubber layer
- Steel wire layer
- External rubber cover



ID (mm)	OD (mm)	Working Pressure (psi)	Test Pressures (psi)	Burst Pressure (psi)	Min. bend radius (mm)	Weight Kg/m
51.00	69.00	5000	10000	12500	900	5.7
64.00	84.00	5000	10000	12500	1100	6.7
76.00	107.00	5000	10000	12500	1200	16.2
89.00	120.00	5000	10000	12500	1300	18.4
102.00	133.00	5000	10000	12500	1400	20.3
51.00	72.00	10000	20000	25000	1000	6.2
64.00	88.00	10000	20000	25000	1200	7.4
76.00	116.00	10000	20000	25000	1300	23.7
89.00	129.00	10000	20000	25000	1400	26.6
102.00	142.00	10000	20000	25000	1600	29.8

RIG ROLLER CHAIN



Rig Roller Chain Are Manufactured For CPMC Under API License 7



size	pitch (mm)	Roller Dia. (mm)	Roller Link India Width (mm)	Pin Dia. (mm)	Pin Length (mm)	Height of inn plate (mm)	Depth of plate (mm)	Min. Breading Load (N)	Endurance Limit load (N)	Weight (kg)
80-1	25.4	15.87	15.75	7.94	37.55	24.13	3.18	55600	12055	2.6
100-1	31.75	19.05	18.90	9.54	44.26	30.18	3.96	86840	18460	3.8
120-1	38.10	22.22	25.23	11.11	55.44	36.20	4.75	125100	25978	5.6
140-1	44.45	25.40	25.23	12.71	60.55	42.24	5.56	170270	34340	7.5
160-1	50.80	28.57	31.55	14.29	70.00	48.26	6.35	222400	43771	9.8
180-1	57.15	35.71	35.49	17.46	77.70	54.26	7.14	281570	53823	13.6
200-1	63.50	39.67	37.85	19.85	84.50	60.33	7.92	347410	64499	16.5
240-1	76.20	47.62	47.35	23.81	102.20	72.39	9.53	500400	86296	22.6

Chain No	Pitch		Roller Dia d 1 (max)mm	Width Between Inner Plates b1(min) mm	Transverse	Chain Paht Depth h 1 (min)mm	Breaking Load(min)			Weight Approx		
	p (in)	p (in)					Single Q,kN	Dupiex Q,kN	Triplex Q,kN	Single Q,kN	Duplex Q,kN	Triplex Q,kN
20A	1.25	31.75	19.05	18.9	35.76	30.48	86.7	173.5	260.2	3.6	7.2	10.8
24A	1.5	38.10	22.23	25.22	45.44	36.55	124.6	249.1	373.7	6.7	13.4	20.1
28A	1.75	44.45	25.4	25.22	48.87	42.67	169	338.1	507.1	8.3	16.6	24.9
32A	2.0	50.8	28.58	31.55	58.55	48.74	222.4	444.9	667.2	10.5	21	31.5
40A	2.5	63.5	39.68	37.85	71.55	60.93	347	693.9	1040.9	16	32	48
20B	1.25	31.75	19.05	19.56	36.45	26.68	95	170	250	3.6	7.2	10.8
24B	1.5	38.1	25.4	25.40	48.36	33.73	160	280	425	6.7	13.4	20.1
28B	1.75	44.45	27.94	30.99	59.56	37.46	200	360	530	8.3	16.6	24.9
32B	2	50.8	29.21	30.99	58.55	42.72	250	450	670	10.5	21	31.5
40B	2.5	63.5	39.37	38.10	72.29	53.49	355	630	950	16	32	48

◆ Leaf Chain

Chain No	P Pitch mm	Plate Form	bo plate THK mm	h3 plate Height mm	d2 Pin Dia mm	b Pin Height mm	Q Max.Tensile Load KN
LH2422	38.10	2*2	5.77	36.20	12.71	29.62	151.24
LH2423		2*3				35.43	151.24
LH2434		3*4				47.07	244.64
LH2444		4*4				52.88	302.47
LH2446		4*6				64.52	302.47
LH2466		6*6				76.15	453.70
LH2488		8*8				99.42	604.94
LH2822	44.45	2*2	6.55	42.24	14.29	33.55	191.27
LH2823		2*3				40.16	191.27
LH2834		3*4				53.37	315.81
LH2844		4*4				59.97	382.53
LH2846		4*6				73.18	382.53
LH2866		6*6				86.39	578.24
LH2888		8*8				112.80	765.06
LH3222	50.80	2*2	7.52	48.26	17.46	39.01	289.12
LH3223		2*3				46.58	289.12
LH3234		3*4				61.72	440.36
LH3244		4*4				69.29	578.24
LH3246		4*6				84.43	578.24
LH3266		6*6				99.57	867.36
LH3288		8*8				129.84	1156.48

◆ Heavy Duty Transmission Cranked Link

Chain No	Pitch mm	Width between plates at inner end b,(nom)	Roller dia d,(max)	Plate		Pin		Breaking load(min)Q	Weight approx q
				Height H2(max)	Thickness c(nom)	Width L(max)	Dia d,(max)		
2512	77.9	39.6	41.28	60.5	9.7	103.4	19.08	37800	18
2814	88.9	38.1	44.45	60.5	12.7	117.6	22.25	51600	25
3315	103.45	49.3	45.24	63.5	14.2	134.9	23.85	59600	27
3618	114.3	52.3	57.15	79.2	14.2	141.2	27.97	81400	38
4020	127.00	69.9	63.50	91.9	15.7	168.1	31.78	105400	52

SSW40 SPINNER WRENCH

DESIGN FEATURES

◆ Spinning Wrench is a pneumatically powered tool for spinning drill pipe and drill collar from 3 1/2 to 9 1/2 inch OD. Using the proven principal of frictional drive contact, the spinning wrench can spin drill pipe in or out quickly and efficiently without damage to expensive drill pipe and without the hazards of the dangerous spinning chain.

◆ During the typical spin up procedures the spinning wrench is swung onto the drill pipe above the pipe upset, the clamping control is actuated, clamping and locking the pressure rollers onto the drill pipe. with the pipe tight against the two aluminum drive rollers, the operator turns the throttle control to operate the variable speed drive motor and spin the pin end into the box.

Specification:

Range	3-1/2" to 9-1/2" O.D.
Air pressure	90-125 ps
Air Consumption	250CFM
RPM	0-120
Stall torque	1,100 ft-lbs
Weight (lbs)	780
Overall Dimensions	17" x 55" x 22"



TRIPLEX MUD PUMP

DESIGN FEATURES

◆ The Triplex Single Acting Mud pump is machined as per the designs provided by LTV Co on Emsco F Series pump with all fluid end parts interchangeable to that being machined by Emsco OEM plants.



F-500, F-800 and F-1000 Mud Pumps

Power End (frame, pinion shaft, crankshaft, crosshead and extension rod)

- Continuous tooth herringbone gear.
- one-piece alloy steel crank.
- Renewable crosshead guide.
- The frame is made of welded steel plate to provide the frame with high strength, good rigidity and light weight.
- The extension rod packing is duplex seal structure to provide the good seal result.
- The power end uses the combined lubricating system of forced lubrication and splash lubrication.
- **The frame** is made of welded steel plate and stress relief treated to obtain the good rigidity and high strength. The place where the crankshaft bearing is fitted is strengthened by using ribbed plates. The frame is furnished with the necessary oil basin and oil way system for cooling and lubricating purpose.
- **Crankshaft** is made of casted alloy steel and furnished with herringbone gear, connecting rod and bearing. The tooth form of the big geared ring is herringbone gear. The gear bore and the crankshaft surface are interference fitted and they are both fastened with bolts and lock nuts. The big end of the connecting rod is mounted on three eccentric straps of the crankshaft through single row short cylindrical roller bearings and the small end on the crosshead pin through double row long cylindrical roller bearing. Double row radial spherical roller bearings are mounted at both ends of the crankshaft.
- **Pinion shaft** is made of forged alloy steel on which a herringbone gear with the medium-hard tooth surface is machined. For easy maintenance, the single row radial long cylindrical roller bearing with inner ring (without sides) is used. The both ends of the pinion shaft extend out, so that the sheave or the sprocket can be mounted on either end.
- **Crosshead and Extension Rod** are made of ASTM A48-83 mechanize cast iron featured by good abrasion resistance and long service life. Upper and lower guides are used for F-800 and F-1000 mud pumps, so that the concentricity can be

adjusted by adding shims beneath the lower guide. F-500 mud pump is the cylindrical structure. The connection between the crosshead and the extension rod is made by using bolted flange. The rigid connection ensures the concentricity of the crosshead and the extension rod. The coupling is used for connecting the extension rod to the piston rod. The light-weight coupling enables the extension rod and the piston rod to connect to each other easily and reliably.

Fluid End (cylinders, valve assembly, liners and pistons)

- Cylinders are made of forged alloy steel, three cylinders of each pump are interchangeable. Valve-over-valve (through type cylinder) design reduces the cylinder volume and promote the volumetric efficiency. At customers 'request, the cylinder surface may be nickel plated to improve the abrasion resistance. Discharge pulsation dampener, shear relief valve and discharge strainer are furnished at the outlet. F-500 pump suction inlet is fitted with 8"flange, F-500 pump suction inlet with 10"flange and F-1000 pump suction inlet with 12"flange.
- The suction valve and the discharge valve for above three mud pumps are interchangeable. F-500 mud pump uses API#5 valve pot, F-800 and F-1000 mud pumps use API#6 valve pots.
- Bi-metal liners are used. The sleeve is made of wear-resistant cast iron, the surface hardness is HRC60-65. Therefore, liners feature wear resistance, corrosion resistance and high surface finish. Liners are put in from the cylinder cover bore in the front of the cylinder and fixed with liner cage, cylinder cover plug and cylinder cover when installing.
- Pistons and Piston Rods are slide fitted, sealed with rubber seal ring and finally fastened with lock nuts to prevent the piston from looseness and to play a role in sealing.

Notes: Cylinders, liners, pistons, valves, valve seats, valve springs, seal rings, valve covers and cylinder covers at the fluid end of F-800 and F-1000 mud pumps are all interchangeable.

Spraying System

The spraying system consists mainly of spray pump, cooling water box, and spray pipe, the function is to cool and rinse liners and pistons to promote their service life.

The centrifugal spray pump can be driven by a sheave mounted on the input shaft extension end or a separate motor and cooled and lubricated by water.

The spray pipe is mounted on the coupling between the extension rod and the piston rod and can reciprocate with the piston. Nozzles is near the piston end so that the lubricating-cooling fluid can rinse the contact surface between the piston and liner all the

time. The durable fixed spray pipe may be used, too.

Lubricating System

The power end uses the combined lubricating system of forced lubrication and splash lubrication. The pressure oil is conveyed through lubricating pipeline, crosshead, extension rod, crosshead guide and all bearings by a gear oil pump within the oil box to realize the forced lubrication. The working condition of the gear oil pump may be understood from the pressure gauge behind the frame.

Charging System

To prevent the air lock occurring for low pump inlet pressure, every mud pump is furnished with a complete charging system. It consists of charging pump, pump base, butterfly valve and corresponding manifold. Mounted on the suction manifold of the mud pump, the charging pump is driven by the special purpose motor or the input shaft of the mud pump through V-belts to reduce the power consumption.

F-1300 and F-1600 Mud Pumps

F-1300 and F-1600 mud pumps can meet the requirements of the same manufacturing technique and quality level as those of F series mud pumps of LTV Co. They feature advanced structural design, reliable use, easy maintenance and compact occupied area. To reduce drilling workers' labor intensity and make the operation easy on site, liners are designed to be fitted into the frame from the frame top. A mini hoist with 500Kg lifting capacity is mounted on the frame for disassembling and changing liners.

Suction inlets of F-1300 and F-1600 mud pumps are fitted with 12" flanges, F-1300 and F-1600 mud pumps are fitted with API#7 valve pots. The suction valve and the discharge valve are interchangeable. Cylinders are made of forged alloy steel and nickel plated to improve their corrosion resistance. Three cylinders of each pump are interchangeable. Valve-over-valve (through type cylinder) design reduces the cylinder volume and promotes the volumetric efficiency.

Notes: Cylinders, liners, pistons, valve and seats, valve springs, seal rings, valve covers and cylinder covers at the fluid end of F-1300 and F-1600 mud pumps are all interchangeable.

SPECIFICATIONS: F Series Triplex Mud Pumps

MODEL	F-500	F-800	F-1000	F-1300	F-1600
Max. Liner Size x Stroke	6-3/4" x 7-1/2"	6-3/4" x 9"	6-3/4" x 10"	7-1/2" x 12"	7-1/2" x 12"
Power Rating	500 HP @ 165 SPM	800 HP @ 150 SPM	1000 HP @ 140 SPM	1300 HP @ 120 SPM	1600 HP @ 120 SPM
Gear, Herringbone,	4.286:1	4.185:1	4.207:1	4.206 : 1	4.206 : 1
Lubrication	Pressure And Splash To All Moving Parts				
Suction Inlet	8"	10"	12"	1	12"
Discharge Outlet	4" – 5,000 PSI	5" – 5,000 PSI	5" – 5,000 PSI	5" – 5000 PSI	5" – 5000 PSI
Pinion Shaft Diameter	5-1/2"	7"	7-3/4"	8-	8-1/2"
Keyway	1-1/4" x 5/8"	1-3/4" x 7/8"	2" x 1"	2"	2" x 2"
Valve Pot	API #5	API #6	API #6	API #7	API #7
Weight	21,540 LB	31,970 LB	41,420 LB	54,170 LB	54,660 LB

PERFORMANCE: F-500 Triplex Mud Pump (6-3/4" x 7-1/2")

Strokes Per Minute	Power Rating (HP)	Liner Size (in) & Pressure Rating (psi)							
		6-3/4"	6-1/2"	6-1/4"	6"	5-1/2"	5"	4-1/2"	4"
		1341	1447	1565	1699	2024	2440	3025	3818
Displacement (gallons per minute)									
175	530	610	565	523	481	404	335	271	214
170	515	592	594	508	468	393	325	263	208
165	500	575	533	493	454	381	316	255	202
150	454	522	485	448	413	347	287	232	184
140	424	488	452	419	385	323	268	216	171
130	393	452	420	389	358	301	249	201	159
120	363	418	388	359	330	277	230	186	147
110	333	383	355	329	303	254	210	170	135
Displacement (GPR)		3.48	3.23	2.99	2.75	2.31	1.91	1.55	1.22

PERFORMANCE: F-800 Triplex Mud Pump (6-3/4" x 9")

Strokes Per Minute	Power Rating (HP)	Liner Size (in) & Pressure Rating (psi)								
		6-3/4"	6-1/2"	6-1/4"	6"	5-3/4"	5-1/2"	5-1/4"	5"	4"
		1968	2120	2295	2490	2715	2965	3260	3590	5000
Displacement (gallons per minute)										
160	853	669	620	574	529	486	444	404	367	235
150	800	627	582	538	496	455	416	379	344	221
140	747	585	543	502	463	425	389	354	321	206
130	693	543	504	466	429	395	361	328	298	191
120	640	502	466	431	397	364	333	303	275	176
110	587	459	427	394	363	334	305	278	252	162
80	427	335	310	287	264	243	222	202	183	118
Displacement (GPR)		4.18	3.88	3.59	3.30	3.04	2.78	2.53	2.29	1.47

PERFORMANCE: F-1000 Triplex Mud Pump (6-3/4" x 10")

Strokes Per Minute	Power Rating (HP)	Liner Size (in) & Pressure Rating (psi)								
		6-3/4"	6-1/2"	6-1/4"	6"	5-3/4"	5-1/2"	5-1/4"	5"	4-1/2"
		2370	2558	2770	3010	3270	3575	3920	4330	5340
		Displacement (gallons per minute)								
150	1071	697	647	598	550	506	463	422	382	310
140	1000	651	603	558	514	472	432	394	357	289
130	929	604	560	518	477	438	402	365	331	268
120	857	558	517	478	440	404	371	337	306	248
110	786	511	474	438	404	371	339	309	280	227
80	571	372	345	318	293	269	247	224	204	165
60	429	279	258	238	220	202	185	168	153	124
Displacement (GPR)		4.65	4.31	3.98	3.67	3.37	3.09	2.81	2.55	2.07

PERFORMANCE: F-1300 & F-1600 Triplex Mud Pump (7" x 12")

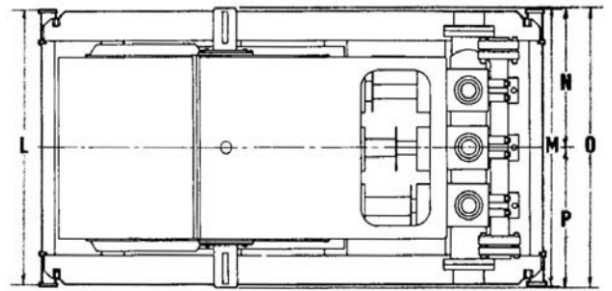
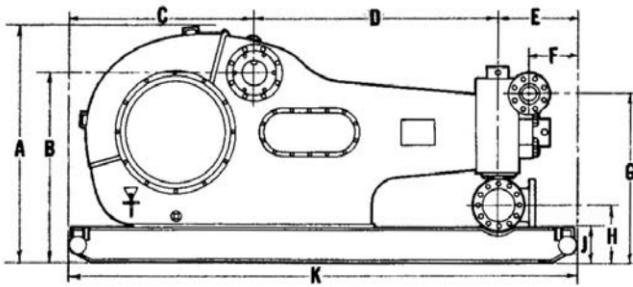
Strokes Per Minute	Liner Size (in)		7"	6-3/4"	6-1/2"	6"	5-1/2"	5"	
	Pressure Rating (psi)	MKFB-1300	2789	2997	3234	3892	4516	5000	
		MKFB-1600	3423	3688	3981	4665	5000	5000	
	Power Rating (HP)		Displacement (gallons per minute)						
		F-1300	F-1600						
130	1408	1733	778	724	671	573	481	398	
120	1300	1600	719	669	620	529	444	367	
110	1192	1467	659	613	568	485	407	337	
100	1083	1333	599	557	517	441	370	306	
90	975	1200	539	501	465	397	333	275	
80	866	1067	479	445	413	353	296	244	
70	758	933	419	389	362	309	258	214	
60	650	800	359	334	310	264	222	183	
Displacement (GPR)			5.99	5.57	5.16	4.41	3.70	3.06	

DIMENSIONS: F SERIES

(inches)	F-500	F-800	F-1000
A	60.75	65.25	71.00
B	47.00	-	57.25
C	51.37	54.00	61.25
D	65.75	64.50	73.50
E	36.75	37.50	25.25
F	26.87	26.75	14.50
G	44.50	47.12	240.5
H	15.31	15.62	18.75
J	240.0	-	12.00
K	144.0	156.0	168.0
L	57.00	61.75	94.00
M	55.25	-	108.0
N	-	34.18	46.00
O	75.06	84.25	90.50
P	-	34.81	44.50

(inches)	F-1300 F-1600
A	82.00
B	65.75
C	73.37
D	88.37
E	30.25
F	17.68
G	59.75
H	21.75
I	13.75
J	12.00
K	192.0
L	96.00
M	38.56
N	42.37
P	47.50
R	36.25

F-500, F-800, F-1000



F-1300, F-1600

