

MP MARK IV

High Torque, All Hydraulic,
Self Contained Rotary

Mountings:

- Truck
- Crawler
- Trailer
- ATV
- Skid



MP MARK IV SPECIFICATIONS STANDARD AND OPTIONAL

POWER UNITS - D.C.D.M.A. RATED						
MFG.	MODEL	HP	GOVERNED RPM	COOLING	FUEL	RECOMMENDED FOR
Deutz	F5L912	73	2300	Air	Diesel 24 gal. (90.8 liters)	Crawler Truck Trailer
*Deutz	F6L912	88	2300	Air	Same as Above	Elevations Above 5,000 ft.
Hour Meter & 12 Volt Electric Starting Standard						

ROTARY DRILL HEADS AND SPEEDS						
Power	Piston Type - Hydraulic Reversible Motor Drive					
Torque*	5,750 Lbs. Ft. - 795 kg meter @ 32 R.P.M. (4 Speed Head) Optional					
Spindle	I.D. 3 5/8" (92 mm)					
Trans-Speeds	1st	2nd	3rd	4th		
4 Speed*	32	67	123	212		
Speeds	Standard	Low	43	90	165	284
		High	114	238	439	754
	Optional	Low	68	142	262	451
		High	181	378	698	1200
Final Drive	Triple Chain Drive and Sprockets Run in Oil Bath Enclosure					
Hinged Head	For Use with Wire Line Tools					

MAST AND PULL DOWN	
Feed - 3 speeds	Hydraulic 0 to 17.8/53.5/71.5 FT/min. Thrust or Pull
Travel	Hydraulically controlled - 132" - (3.3 m)
Thrust	Drill Head Up or Down - 16,000 lbs. (7,257 kg)
Extension	Mast Retracts and Extends 45" (1.1 m)
Slide Base	Hydraulic-Retraction off hole 13" (330 mm)
Angle Range	Verticle to 45 degree angle
*Crown Block Detachable	For 20 ft. Pulls (6.1 m), Manila Rope & Cable Sheaves
Hydraulic Pedestal Jack	On Bottom of Mast - 12 1/2" Stroke - (317.5 mm)

HYDRAULICS	
Main Circuit	Tram and Rotary (Hydrostatic Closed Loop and Piston Motors)
Rapid Transverse	Drill Head ravel 0 to 76 Ft./Min. in both Directions
Hyd. Oil Filters	Full Flo Type - (1) Washable (1) Replaceable

HOISTS - OPTIONAL*	
*Cathead	6" Dia. x 8" Long (Cargo Type)
Power	Hydraulic Motor Driven
Mounting	On Drill Frame
Hoisting Speed	136 R.P.M. @ 250 Ft./m (75 meters/min)
Capacity	2320 lb - (1125 kgs)
*Rope	Manila - one inch (25 mm)
*Wire Drum Type	Planetary Gear
Power	Hydraulic Motor Driven
Mounting	On Drill Frame
Hoisting Speed	32,97,129 Ft./min
Rope	1/2" Wire Rope (12.7 mm)

LEVELING JACKS*	TRUCK-TRAILER	CRAWLER
Diameter	3" - (76.2 mm)	
Stroke	24" - (609 mm)	18" - 457.2 mm)
Pad Dia.	9" - (228.6 mm)	8" - (203.2 mm)
Operation	Hydraulic Controls at Operator's Station	
Required	1 - Front 2 - Rear	2 - Front 2 - Rear

*CRAWLER	
Drive	All Hydrostatic for each track
Speed	3.0 M.P.H. - Forward and Reverse
Gradeability	76% on 37° slope
No. of pads	41 per track- 12" wide
Max-Width	96" inches
Controls	At control cosole

MISCELLANEOUS - ACCESSORY OPTIONS*	
*Break-Out Table - Hydraulic Powered Range 1 5/8" to 2 7/8" O.D. - 2 7/8" to 4 1/2" O.D.	
*Quick Disconnects - "AW" to "NW" Rods - "AW" to "HX" Casing - 6" to 12" Augers	
*Centralizer for Augers - Hinged Type - Cap. up to 12" I.D.	
*Optional	

DEPTH CAPACITY - RODS AND AUGERS					
Rod size (Wire Line)	Depth		Hole Size		Remarks
	Feet	Meters	Inch	mm	
AQ	2,100	640	1.890	48.0	"Q" Series
BQ	1,700	518	2.360	60.0	"Q" Series
NQ	1,300	396	2.980	75.7	"Q" Series
HQ	900	274	3.782	96.0	"Q" Series
PQ	870	265	4.828	122.6	"Q" Series
Auger* Size					
4"	190	57.9	5.25	133.3	Solid
5 1/4"	150	45.7	6.0	152.4	Hollow
5 3/4"	115	35.0	6.75	171.4	Hollow
6 1/4"	100	30.5	7.25	184.1	Hollow

Rod Size D.C.C.M.A.					
AX-AW	1,600	488	1,890	48.0	DCDMA
BX-BW	1,500	457	2,360	60.0	DCDMA
NX-NW	1,200	366	2,980	75.6	DCDMA
HW	800	244	3,907	99.2	DCDMA

Down the Hole tools such as Roller Rock, Drag Bits and Down-the-Hole Hammers up to 4 5/8" (117.5 mm) in diameter are rated to 500 ft. (152.4 m)
*Based on 5,750 Ft. Lbs. of Torque

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