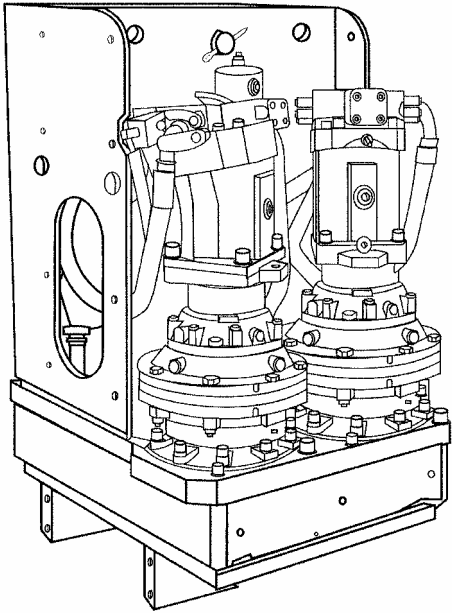


The J&M Model 100AT Auto-Torque Top Drive Rotary Head



Auto-Torque system maximizes drilling speed from top to bottom

- ◆ The most efficient and productive rotary head available in its torque class.
- ◆ Automatic torque-speed adjustment continually utilizes 100% of the available engine power to maximize both drilling speed and production.
- ◆ Two override modes include: 1) continuous full torque for hard rock drilling and 2) low speed operation for DTH and augercast operations.
- ◆ State of the art Chevron Clarity non-toxic and biodegradable hydraulic oil.
- ◆ Simple four motor design provides superior reliability and simplifies unit serviceability and maintenance.
- ◆ Pressure compensated hydraulic motors automatically adjust torque output to match soil conditions.
- ◆ Remote electric pendant control includes operational mode selection switches, engine speed control for fuel efficiency and emergency stop for personnel safety.
- ◆ Hollow output shaft accepts up to 6 inch diameter air or grout swivels.
- ◆ Highest efficiency Volvo piston pumps and Rexroth piston motors provide the maximum available hydraulic power transfer and horsepower efficiency.
- ◆ Open-loop hydraulic system provides jobsite condition reliability and ensures maximum efficiency, maximum reliability and simpler, quicker unit serviceability.
- ◆ Made in the USA by the industry's most technologically innovative manufacturer of rotary heads and foundation equipment since 1974.

ROTARY HEAD

Maximum torque	100,000 ft-lbs (13800 kg-m)
Maximum speed	85 rpm (85 rpm)
Maximum crowd force	80,000 lbs (36290 kg)
Rotary swivel ID (standard)	3 in (76 mm)
Rotary swivel ID (optional)	4 in (102 mm)
Height	52 in (1320 mm)
Width	26 in (660 mm)
Depth	50 in (1270 mm)
Weight (without hoses)	5,500 lbs (2500 kg)
Hydraulic hose length	100 ft (30 m)
Hydraulic hose weight	800 lbs (360 kg)

POWER UNIT

Engine	Caterpillar C-15
Power	500 HP (372 kW)
Operating speed	2100 rpm (2100 rpm)
Drive pressure	5,500 psi (379 bar)
Drive flow	140 gpm (530 lpm)
Weight (full fluid & fuel)	10,700 lbs (4850 kg)
Length	144 in (3660 mm)
Width	60 in (1525 mm)
Height	68 in (1730 mm)
Hydraulic reservoir	300 gal (1130 l)
Fuel capacity	110 gal (415 l)

AVAILABLE ACCESSORIES

Lead adapters to fit any size of lead from 26 inch and above.

Output shaft flange adapters to match your drill stem connection.

APPLICATION NOTES

An appropriate shock-sub is recommended for DTH hammer applications.



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