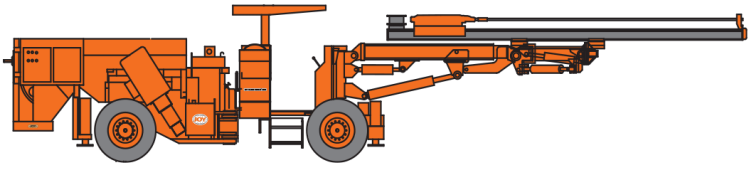
delkom A.Ş.
manufacturer of rock drill alternative spare parts

JOY RR-1MB

TECHNICAL SPECIFICATION



Drilling equipment

Jumbo hydraulics

Variable displacement piston pumps with load-sensing, closed-circuit design for percussion, rotation, feed and boom movements.

Controls

Intelsense control system incorporating these features: collaring, anti-jamming, automatic water monitoring with feed return should low pressure be encountered, auto return to start position following hole completion, and control levers for operating percussion, rotation and feed.

MB boom (Qty 1)

Boom coverage (height)	6.07 m	19 ft 11 in
Boom coverage (width)	5.69 m	18 ft 8 in
Boom extension	1219 mm	48 in
Feed extension	1524 mm	60 in
Guide rollover		360 deg

Available Feeds

MTF 12	Steel	3658 mm	12 ft
	Hole	3200 mm	10 ft 6 in
MTF 14	Steel	4267 mm	14 ft
	Hole	3810 mm	12 ft 6 in
MTF 16	Steel	4879 mm	16 ft
	Hole	4420 mm	14 ft 6 in
Feed position			Inline

Drill

Montabert	HC 50 or HC 109 or HC 110

Levelling jacks

Front (standard with unit)	2
Rear (optional)	2

Drilling electrics

HC 50	One 45 kW (60 hp) TEFC electric motor (voltage as per application) NEMA 4 panels	
HC 109	One 56 or 75 kW (75 or 100 hp) TEFC electric motor (voltage as per application) NEMA 4 panels	
HC 110	One 56 or 75 kW (75 or 100 hp) TEFC electric motor (voltage as per application) NEMA 4 panels	
Cable reel capacity type G-GC	76.2 m	250 ft

Weights

Operating weight	16,545 kg	36,400 lbs

Driving speeds forward and reverse (0% grade)

1st gear	3.7 km/h	2.3 mph
2nd gear	9.3 km/h	5.8 mph
3rd gear	28 km/h	17.5 mph

Powertrain

General

Exhaust system		Purimuffler
Fuel tank capacity	72 litres	19 USG

Transmission	Dana 20000 series w/ integrated torque converter
Shifting	Powershift
Speeds	3 forward / 3 reverse (optional lock-out on 3rd)

Axles

Front and rear	John Deere 1200 series
Differential	No-spin
Brakes - service	Hydraulically-applied/Spring-release
Brakes - parking	Hydraulically-release/Spring-applied
Oscillation angle	+/- 8 deg

Tires	Solid, lugged
Size	12 x 20

Carrier hydraulics

General

Variable displacement piston pump with load-sensing, closed center circuit design for optimal efficiency.

Steering hydraulics

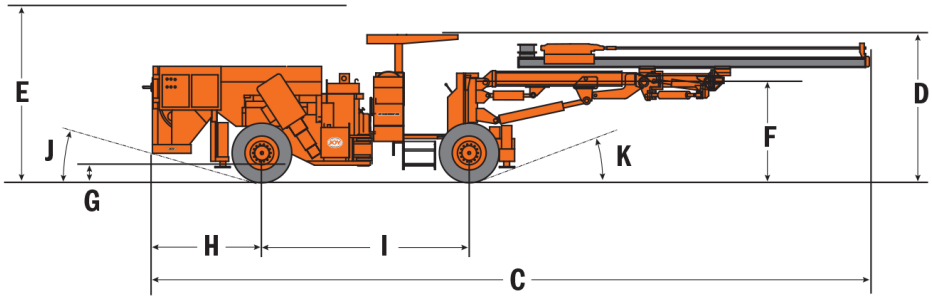
Variable displacement piston pump with load-sensing, closed center circuit design. Stick steering with a direct-acting control valve. Two double-acting steer cylinders.

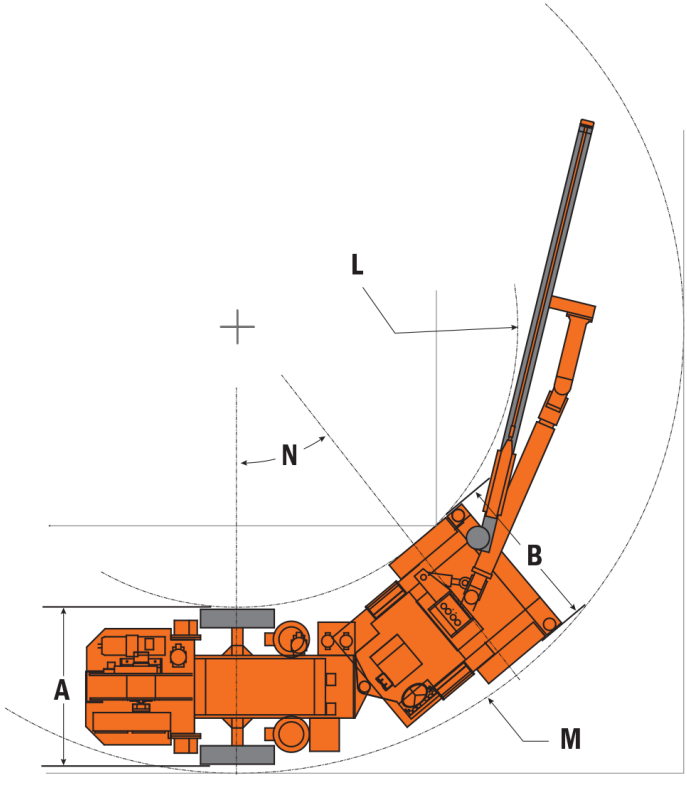
Brake system

Totally enclosed service brake is hydraulically-applied, spring-released on front and rear axles with automatic brake application.

Carrier electrics

Alternator	24V/55A
Batteries	2 x 12 volts
Starter	24V heavy duty
Tram lights	2 front / 2 rear
Drill lights	2 front





Overall dimensions

A	Width	1976 mm	6 ft 6 in
B	Maximum width	2046 mm	6 ft 9 in
C	Total length	12366 mm	40 ft 7 in
D	Height with canopy in tram position	2591 mm	8 ft 6 in
E	Height with canopy in drill position	3112 mm	10 ft 3 in
F	Height to boom center	2006 mm	6 ft 7 in
G	Ground clearance	331 mm	1 ft 1 in
H	Length	1880 mm	6 ft 2 in
I	Length	3600 mm	11 ft 10 in
J	Angle		40%
K	Angle		38%

Turning radius

L	Inner	4190 mm	13 ft 9 in
M	Outer	6480 mm	21 ft 3 in
N	Turning angle		38 deg

Options

Air compressor and water pumps sized for the application

Cab (FOPS/ROPS certified) w/air conditioning or heat

Canopy (FOPS/ROPS certified)

(Other options available – ask your Joy Global service representative)

Engine options

Engine	Certification	Ventilation	Displacement	Output	Maximum torque	Cooling type
Mercedes OM904	EPA Tier 3, MSHA	OHSA@100 cfm/hp = 14800 cfm MSHA-07-ENA070001 = 6000 cfm	4.25 litres	110 kW (148 hp) @2200 rpm	579 Nm (428 ft-lbs) @1200 rpm	Water cooled, charge air cooled
Cummins QSB4.5	EPA Tier 3, MSHA	OHSA@100 cfm/hp = 13000 cfm MSHA-07-ENA070006 = 8500 cfm	4.5 litres	97 kW (130 hp) @2500 rpm	622 Nm (459 ft-lbs) @1500 rpm	Water cooled, charge air cooled