

RAPTOR 44-2R

Production long hole rig for small sections



RAPTOR 44-2R is an electrohydraulic rig for long hole drilling, its hydraulic boom has automatic parallelism, equipped with two rotary actuators allow drilling very close to both walls of the section of the mine.

Its Feed 8000 series, with 2 Stingers provides the best stability to reduce the deviation. Equipped with Montabert HC 95 drifter with 24 kW and Back Hammering - rods extractor, the most modern on the market. Includes magazine and hydraulic clamp.

Chassis for heavy duty, articulated 4WD, self propelled with diesel engine, Poclain hydrostatic transmission, electrohydraulic system for drilling.

Applications:

- Sub level and benching.
 - Block caving
 - VCR and cable bolting application.
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SPECIFICATIONS



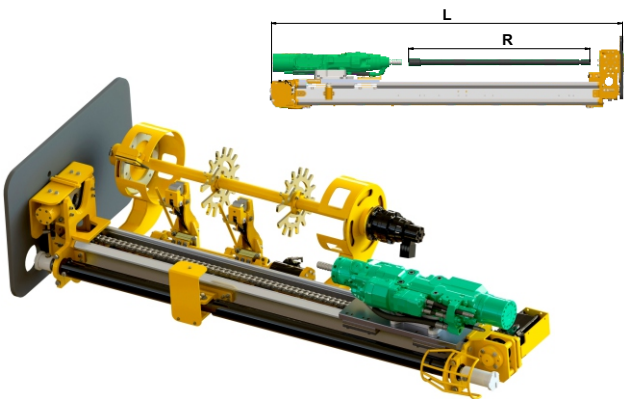
DRIFTER

- ModelMontabert HC 95 (095LQa)
- Percussion power24 kW
- Percussion pressure180 bar
- Frequency57 Hz
- Rotation Speed0 - 220 rpm
- Rotation torque955 Nm
- Hole diameter51 - 89 mm
- Rhymed diameter75 - 127 mm
- Air consumption (flushing)8000 l/min (7 - 10 bar)
- Air consumption (lubrication)300 l/min (a 3 bar)
- Oil consumption (lubrication)0.8 cc/min
- Water consumption60 - 120 l/min (8 - 20 bar)
- Shank AdapterR38, T38, T45 - male
- Weight181 kg

FEED

- ModelRE 8000 series
- Drifter advanceHydraulic motor and chain
- Feed extension712 mm
- Hydraulic clampBULL 120
- Stinger cylinder2 units to stabilize while drilling
- Digital inclinometerAMLH SYSTEM - Angle Measurement Long Hole & Software
- MagazineT38 / 14 + 1 rods
T45 / 12 + 1 rods

Feed Type	Overall length (mm) (L)	Rod length (mm) (R)
Feed 8000 of 4'	2837	1219
Feed 8000 of 5'	3140	1524



CARRIER

- ModelC44.7
- Diesel engineCaterpillar C4.4 ACERT, Tier 3
- Power106 kW @ 2200 rpm
- Exhaust catalyzerStandard
- TransmissionHydrostatic
- Transmission pumpSauer Danfoss
- Rear axle oscillatingFour MSE 18 motors, two of them with service brake ± 8°
- Tramming speed: max. 9 km/h
 - Horizontal max. 8.5 km/h
 - Positive ramp 15%
- Positioning pumpParker, PGP511
- Service brakesWe Disc Brake in two motors
- Emergency and parking brakesSAHR (Spring Applied Hydraulic Release)
- Steering (articulated carrier)±38°
- Tyres10 x R15
- Hydraulic jacks2 extendable front, 2 rear
- CanopyFOPS / ROPS
- Fuel tank15.8 gal / 60 l
- Battery2x12 V, 90 Ah
- Electric system24 VDC
- Tramming lights8X, LED 26W, 12-32 V
- Centralized grease systemSKF
- Drilling lubrication systemSKF
- Automatic fire suppression systemANSUL, 4 nozzles
- Fire extinguisher1x6kg, Tipo ABC

BOOM

- ModelBoom 4APR-2R.1
- Boom extension1200 mm
- Lift angle+46° / -32°
- Swing angle±30°
- Rotation360°
- Hydraulic cylindersParker

HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18 / DCS
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Triple pump	Parker, PGP620-511
• Working pressure	180 bar
• Hydraulic oil tank	33 gal / 126 l
• Hydrostatic oil tank	22 gal / 86 l
• Hydraulic return filter	Parker, 10μ
• Hydraulic pressure filter	Parker, 10μ
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

LUBRICATION AND WATER, AIR SYSTEM

• Compressor	GA30
• Maximum capacity	91 l/s (192 CFM)
• Working pressure	9.1 bar
• Water pump and hydraulic motor	Grundfoss, CR5 - 9
• Maximum flow	6.9 m³/h (115 l/m)@3500rpm
• Minimum water inlet pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar
• Compressor (lubrication)	LE3-10UV

ELECTRIC SYSTEM

• Electric motor	ABB - 75kW (100 HP)
• Voltage	380 - 440 - 550 - 690 - 1000 VAC
• Frequency	50 - 60 Hz
• Starting method	Star - Triangle
• Option to 1000 VAC	Direct start
• Overload protection and ground fault	Schneider, Module VIGI
• Percussion horometer	24V
• Phase sequence indicator	Siemens
• Battery charger	32 VAC, 300W 13A
• Electric transformer	3.5 kVA
• Working lights	2X, LED 30W, 9-32V
• Electric cable reel	80 m
• Electric cable	3x2/0 - AWG (70 mm)
• Degree of protection	IP 55

OPTIONS

• Diesel engine	Deutz BF4L914, Tier II
	72.4 kW @ 2300 rpm
• A/C Enclosed Cabin	FOPS/ROPS certifications

DIGITAL INCLINOMETER

The digital inclinometer controller indicates the measurement of the inclination, rotation and parallelism angles of the feed. The angles are displayed on the screen with a friendly interface, it also has a menu that shows the status of both sensors and any possible errors.



Technical drawing of the HMM 200002 crane, showing front and side views with dimensions in mm.

Front View Dimensions:

- Overall height: 400
- Height to top of boom: 144
- Width at base: 1300
- Width at middle: 1519
- Overall width: 2143

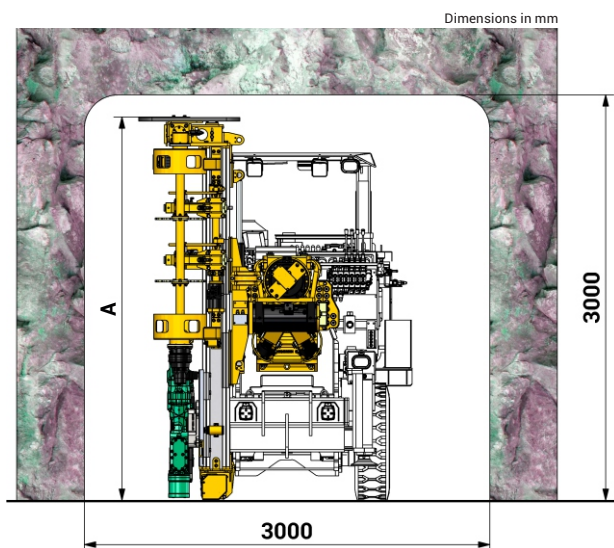
Side View Dimensions:

- Height to top of boom: 700
- Height to top of engine compartment: 2840
- Height to top of rear wheel: 91
- Height to top of front wheel: 256
- Height to top of boom (at 27°): 27°
- Distance from front wheel to rear wheel: 1206
- Distance from front wheel to engine compartment: 337
- Distance from front wheel to rear wheel (overall): 6055
- Overall length: L

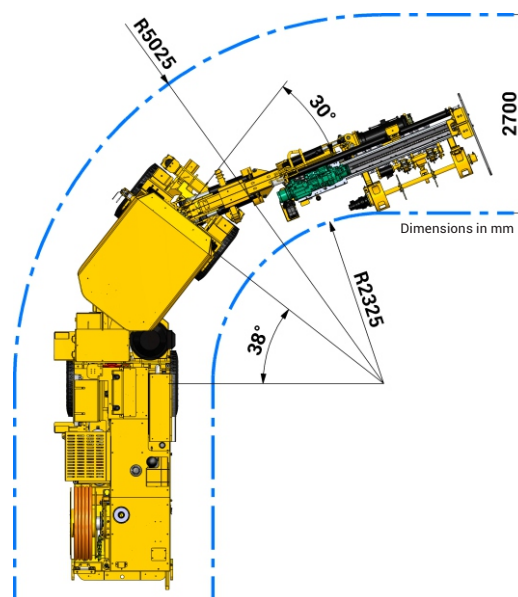
Dimensions in mm

Total Weight
13100 kg

TURNING RADIUS



Feed	4'	5'
Total Length (A)	2837	3140



Technical drawing of the JCB 940-4 telehandler. The main view shows the machine from the front with a width dimension of 5280 mm. Two side views are shown, each with a 360° rotation indicator around the mast. Two circular insets provide close-up views of the mast and boom assembly, with a dimension of 189 mm indicated for the width of the mast. The text 'Dimensions in mm' is at the bottom right.