

RAPTOR 44-2R

Equipment for drilling long holes 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 Stinger provides the best stability to reduce the deviation.

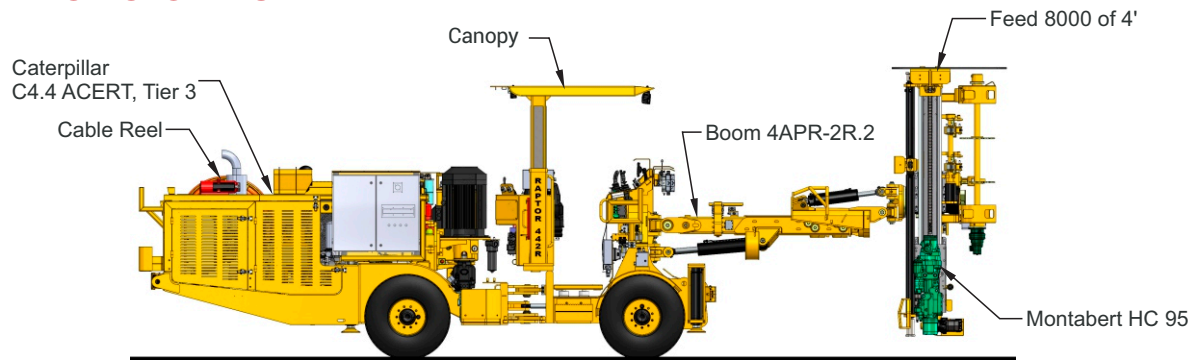
Equipped with Montabert HC 95 drifter with 24 kW and Back Hammering - rods extractor, the most modern on the market. Includes magazine and hydraulic clamp.

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.*

ESPECIFICACIONES



DRIFTER

- Model Montabert HC 95 (095LQa)
- Percussion power 24 kW
- Percussion pressure 180 bar - 200 bar
- Frequency 57 Hz (3400 bpm)
- Rotation Speed 0 - 236 rpm
- Rotation torque 955 Nm
- Hole diameter 51 - 102 mm
- Rhymed diameter 75 - 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 consumption 60 - 120 l/min (8 - 20 bar)
- Shank Adapter R38, T38, T45, T51- macho
- Weight 181 kg

FEED

- Model RE 8000 series
- Drifter advance Hydraulic motor and chain
- Feed extension 712 mm
- Hydraulic clamp BULL 120
- Stinger cylinder 2 units to stabilize when drilling
- Digital inclinometer AMLH SYSTEM - Angle Measurement Long Hole & Software
- Magazine T38 / 14 + 1 barras
T45 / 12 + 1 barras

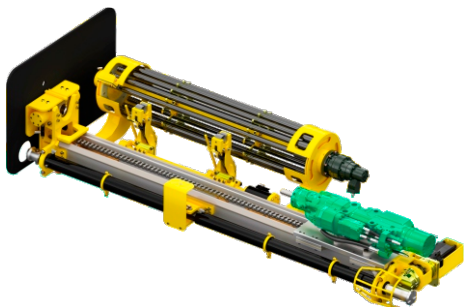
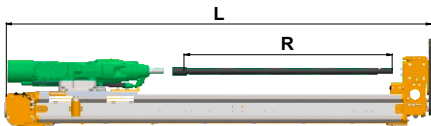
CARRIER

- Model C44.7.1
- Diesel engine Caterpillar C4.4 ACERT, Tier 3
- - Power 106 kW @ 2200 rpm
- Exhaust catalyster DOC (Diesel Oxidation Catalyst)
- Transmission Hydrostatic
- Transmission pump Sauer Danfoss
- Hydrostatic Motors Four MSE 18 motors
- Rear axle oscillating ± 8°
- Tramming speed:
 - Horizontal máx. 8.5 km/h
 - Positive ramp 15% máx. 8 km/h
- Positioning pump Parker
- Service brakes Hidroestático
- Emergency and parking brakes SAHR (Spring Applied Hydraulic Release)
- Steering (articulated carrier) ±40°
- Tyres 10.00 x R15
- Hydraulic jacks 2 extendable front, 2 rear
- Canopy FOPS / ROPS
- Fuel tank 15.8 gal / 60 l
- Battery 2x12 V, 95 Ah
- Electric system 24 VDC
- Tramming lights 8X, LED 28W, 9-32 V
- Centralized grease system SKF
- Drilling lubrication system SKF
- Automatic fire suppression system ANSUL, 4 nozzles
- Fire extinguisher 1x20 lb (PQS)

BOOM

- Model Boom 4APR-2R.2
- Boom extension 1200 mm
- Lift angle +46° / -32°
- Swing angle ±30°
- Rotation 360°
- Hydraulic cylinders

Feed Type	Overall length (mm) (L)	Rod length (mm) (R)
Feed 8000 of 4'	2833	1219
Feed 8000 of 5'	3126	1524



HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Drilling Control	PCS (Pilote Control System)
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Triple pump	Parker
• 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

WATER AND AIR SYSTEM

• Compressor (Lubrication)	LE3-10UV
- Maximum capacity	5.1 l/s (10.8 CFM)@1800rpm
- Working pressure	3 bar
Optional:	
• Compressor (Flushing)	CT12G
- Maximum capacity	180 CFM
- Working pressure	8 bar
• Water pump and hydraulic motor	CR5-9
- Maximum flow	6.9 m³/h (115 l/m)@3500rpm,
- Minimum water inlet pressure	2 bar
• Bowman cooler	FG-120, 42 GPM, 20 bar

ELECTRIC SYSTEM

• Electric motor	75kW, 100 HP
• Voltage	380 - 440 VAC
	Options: 550 - 690 - 1,000 VAC
	50 - 60 Hz
	Star - Triangle
	Direct start
• Frequency	
• Starting method	
• Option to 1000 VAC	
• Overload protection and ground fault	
• Percussion horometer	24V
• Phase sequence indicator	
• Battery charger	IN 32 VAC, 300W 13A OUT 28 VDC
• Electric transformer	3.5 kVA
• Working lights	2X, LED 50W, 9-32 V
• Electric cable reel	90 m
• Electric cable	3x2/0 AWG
• Degree of protection	IP 55

OPTIONS

• Diesel engine	Deutz BF4L914, Tier II, EPA II 72.4 kW @ 2300 rpm FOPS / ROPS certifications Montabert HC 112, kW 26 (equipment with different configuration)
• A/C Enclosed Cabin	
• Drifter	

AMLH SYSTEM (Angle Measurement Long Hole)

The AMLH system (Angle Measurement Long Hole) is an electronic aid system for long hole equipment.
Its main systems are the following:

- Measurement of rotation angles, inclination and feed parallelism.
- Rods quantity display.
- Electronic carousel control.



Technical drawing of the Puma 1000PS skid steer loader, showing front and side views with dimensions in mm.

Front View Dimensions:

- Overall width: 1350 mm
- Overall width including mirrors: 1580 mm
- Overall width including fenders: 2143 mm
- Height to top of mast: 400 mm
- Height to top of engine compartment: 143 mm
- Height to top of rear fender: 182 mm

Side View Dimensions:

- Overall length: 9428 mm
- Height to top of mast: 615 mm
- Height to top of engine compartment: 257 mm
- Height to top of rear fender: 337 mm
- Height to top of rear fender (inclined): 91 mm
- Wheelbase: 1206 mm
- Distance from front axle to rear axle: 1250 mm
- Overall length including rear fender: 6042 mm
- Mast angle: 27°

Dimensions in mm

Total Weight
13,110 kg

