RAPTOR 55-2R

Equipment for drilling long holes for medium sections



RAPTOR 55-2R 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.

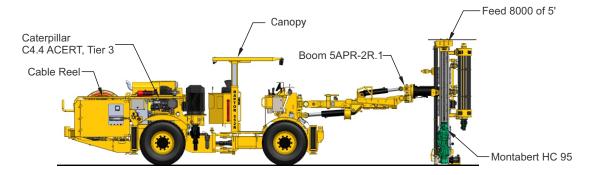
Its Feed 8000 series, with 2 Stinger provides the best stability to reduce the deviation. Equipped with Montabert HC 95 drifter with 24 kW and Back Hammering - rods extractor, the most modern on the market. Includes magazine and hydraulic clamp.

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

Aplications:

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

SPECIFICATIONS



DRIFTER

Model

Percussion power

Percussion pressure

Frequency

Rotation Speed

• Rotation torque

Hole diameter

Rhymed diameter

Air consumption (flushing)

• Air consumption (lubrication)

• Oil consumption (lubrication)

Water consumption

Shank Adapter

• Weight

Montabert HC 95 (095LQa)

24 kW

180 bar - 200 bar

57 Hz (3400 bpm)

0 - 236 rpm

955 Nm

51 - 102 mm

75 - 127 mm

8000 l/min (7 - 10 bar)

300 l/min (a 3 bar)

0.8 cc/min

60 - 120 l/min (8 - 20 bar)

R38, T38, T45, T51- male

181 ka

FEED

Model

• Drifter advance

• Feed extension

Hydraulic clamp

Stinger cylinder

· Digital inclinometer

Magazine

RE 8000 series

Hydraulic motor and chain

715 mm

BULL 120

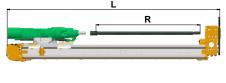
2 units to stabilize when drilling BAL - Boom Alignment Laser

T38 / 14 + 1 rods

T45 / 12 + 1 rods

T51 / 10 + 1 rods

Feed Type	Overall length (mm) (L)	Rod length (mm) (R)
Feed 8000 of 4'	2826	1219
Feed 8000 of 5'	3126	1524
Feed 8000 of 6'	3426	1829





CARRIER

Model

• Diesel engine

- Power

• Exhaust catalyster

Transmission

Powershift gearbox

Differential axle

· Rear axle oscillating

• Tramming speed:

- Horizontal

- Positive ramp 15%

Positioning pump

Service brakes

• Emergency and parking brakes

Steering (articulated carrier)

Tyres

Hydraulic jacks

Canopy

• Fuel tank

Battery

• Electric system

Tramming lights

· Centralized grease system

• Drilling lubrication system

Automatic fire suppression

system

• Fire extinguisher

• High pressure wash

• Reel grease gun

C66.3

Caterpillar C4.4 ACERT, Tier 3

106 kW @ 2200 rpm

DOC (Diesel Oxidation Catalyst)

Hydrodynamics

Dana, T12000

Dana, Series 112

± 8°

max. 16 km/h

max. 4 km/h

Parker

Wet discs

SAHR (Spring Applied

Hydraulic Release)

±40°

12 x R20

2 extendable front,

2 rear

FOPS / ROPS

20.6 gal / 78 I

2x12 V, 95 Ah

24 VDC

8X, LED 28W, 9-32V

SKF

SKF

ANSUL, 4 nozzles 1x20 lb (PQS)

Manual Manual

BOOM

Model

• Boom extension

• Lift angle

 Swing angle Rotation

Hydraulic cylinders

Boom 5APR-2R.1 1200 mm +60° / -50°

±35° 360°



HYDRAULIC CONTROL SYSTEM

· Válvula de control directo

Parker KA-18 Drilling Control PCS (Pilote Control System)

Percussion pump

(compensated pressure)

 Double pump Working pressure · Hydraulic oil tank Hydraulic return filter

 Hydraulic pressure filter Hydraulic filter saturation

indicator

 Low oil level indicator Oil temperature indicator Hydac

Rexroth A10VO100

Parker

180 - 200 bar 37.5 gal / 142 l Parker, 10u Parker, 10µ

Parker Hydac

LE3-10UV

WATER AND AIR SYSTEM

Compressor (Lubrication)

Maximum capacity

- Working pressure

Optional:

• Compressor (Flushing) CT12G - Maximum capacity 180 CFM - Working pressure 8 bar

· Water pump and hydraulic

motor

- Maximum flow

6.9 m³/h (115 l/m)@3500rpm,

- Minimum water inlet pressure

Bowman cooler

FG-120, 42 GPM, 20 bar

5.1 l/s (10.8 CFM)@1800rpm

ELECTRIC SYSTEM

 Electric motor 75kW, 100 HP 380 - 440 VAC Voltage

Options: 550 - 690 - 1,000 VAC

 Frequency 50 - 60 Hz Starting method Star - Triangle Option to 1000 VAC Direct start

· Overload protection and ground fault

Percussion horometer

• 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

24V

• Electric cable reel 90 m • Electric cable 3x2/0 AWG Degree of protection IP 55

OPTIONS

Diesel engine

• A/C Enclosed Cabin

Drifter

Deutz BF4L914, Tier II, EPA II 72.4 kW @ 2300 rpm FOPS / ROPS certifications Montabert HC 112, kW 26 (equipment with different configuration)

BAL SYSTEM (Boom Alignment Laser)

The Boom Alignment Laser (BAL) system is an electronic aid system in long drill rigs. Its main systems are the following:

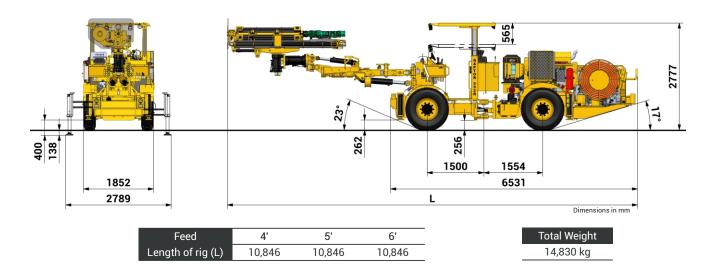
- Positioning of the beam with reference to the tunnel markings using the laser.
- Measurement of angles of rotation, inclination and beam parallelism (AMLH).
- Measurement of meters drilled per hole and totals.
- · Electronic carousel control.

The entire system is connected by CAN-BUS protocol and analog cables, which simplifies the number of cables. It is robust, with IP67 protection onwards.

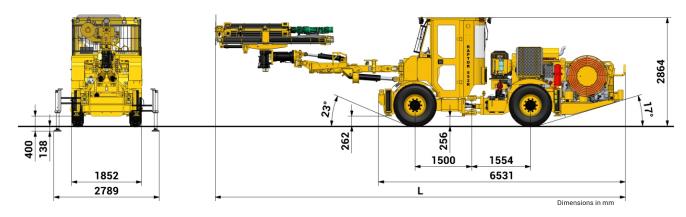
The system goes hand in hand with the implementation of the control panel, with hydraulically piloted valves, simplifying the number of levers in the cabin.



DIMENSIONS



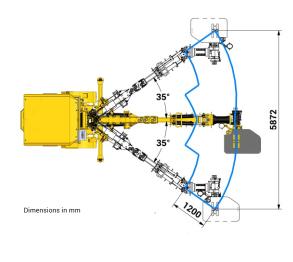
Option: A/C Enclosed Cabin

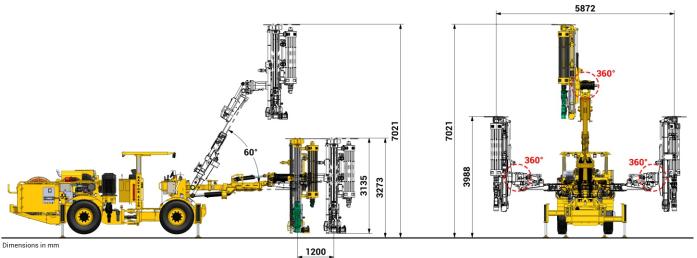




Rev. 250624 ©Copyright 2024 RESEMIN reserves the right to modify the technical specifications without prior notice to users. Please contact a RESEMIN representative for clarification on specifications and options. Reference images.

COVERAGE





TURNING RADIUS

