

# RAPTOR 44 XP

## Production long hole rig for small sections

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RAPTOR 44 XP is an electro-hydraulic rig for long hole drilling, It has an hydraulic boom, 4AP model, with automatic parallel holding.

8000 series, Long Hole Feed, with 2 Stingers and hydraulic motor and chain style. BARYCENTRE system to synchronize automatically the drilling and rotation axes; this system facilitates the drilling of radial and parallel holes with reduced times for positioning. Equipped with a Montabert Drifter HC 95 with 22 kW and Back –Hammering rods extractor, the most modern rock drill in the market.

Chassis for heavy duty application, articulated 4WD, self-propelled with Deutz diesel motor, Poclain hydrostatic transmission and electro hydraulic system for drilling.

Applications:

- Sub level and benching.
- Block Caving.
- VCR and Cable Bolting application.

# SPECIFICATIONS



## DRIFTER

• Model	Montabert, HC95
• Percussion Power	22 kW
• Percussion pressure	180 Bar
• Frequency Percussion	68 Hz
• Rotation speed	0 - 270 rpm
• Rotation Torque	750 Nm
• Hole diameter	51 - 89 mm
• Rhymed diameter	75 - 127 mm
• Maximum drilling length	to 35 m
• Lub air consumption	6 l/s (a 2.5 bar)
• Lub oil consumption	0.8 cc/min
• Water consumption	3 - 4 l/s (to 9 bar)
• Shank Adapter	T38, T45, Male
• Weight	185 kg
• Length with shank	1162 mm

## FEED

• Model	RE 8000 Series
• Advance drilling	Hydraulic motor and chain
• Feed extension	400 mm
• Hydraulic clamp	Bull 120
• Standard Feed	4 ft rods
• Options	3, 5 rods
• Three Stinger to stabilize while drilling	
• Rod Handling	10 + 1 Rods
• Options	14 + 1 Rods
• Digital inclinometer for measuring angles	Transtronic

## BOOM

• Model	Boom 5 AP - C
• Automatic parallelism	
• Boom Extension	1000 mm
• Angle lift	+65°/ -20°
• Swing angle	± 30°
• Rotation angle	360°
• Hydraulic cylinders	Parker

## CARRIER

• Model	C44.2
• Diesel Engine	Deutz BF4L914
• Power	72.4 kW @ 2300 rpm
• Exhaust catalyst	Standard
• Transmission	Hydrostatic
• Transmission Pump	Saur Danfos
• Hydrostatic Motor	Poclain
• Rear axle Oscillating	± 8°
• Positioning pump	Parker, P315 B
• Service brakes	Separate
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Tyres	10.00 x R15
• Steering (articulated carrier)	±41°
• Hydraulic jacks	2 extendable front, 2 rear
• Battery	2x12 V, 90 Ah
• Electric system	24 VDC
• Gradeability	15%
• Trimming Speed	Flat - 11 kph 15% - 7 kph
• Canopy	FOPS / ROPS
• Trimming lights	8X, Halógeno 65W HD, 24 V
• Centralized Lubrication System	SKF
• Drilling Lubrication System	SKF
• Automatic fire suppression system	ANSUL, 6 nozzles
• Fire extinguisher	1x6kg, Type ABC
• High-pressure washing system	
• Reel grease gun	

## OPTION

• Compressor AC, GA 30	On board
• Magazine RH 14 for 14+1 rods	
• Feed	For 3 and 5 feet



**WATER AND AIR SYSTEM**

- Compressor AC, GA30
- Maximum capacity 84 l/s (178 cfm)
- Work pressure 9.1 Bar
- Water pump with hydraulic motor Grundfoss, CR5 - 9
- Maximum flow at 8 Bar 6.9 m3/h
- Minimum inlet pressure 2 Bar
- Cooler Thermal Transfer EK 1018T, 80 GPM, 34 Bar

**ELECTRIC SYSTEM**

- Electric motor ABB - 75kW / 100 HP
- Voltage 380 - 440 - 550 - 690 -1000 VAC
- Frequency 50 - 60 Hz
- Starting method Star - Delta
- Option to 1000 VAC Direct start
- Overload protection and ground fault Schneider, Module VIGI
- Percussion hour meter In the control panel
- Phase sequence indicator Siemens
- Battery charger 32 VAC, 300W, 13A
- Electric transformer 3,5 kVA
- Work Lights 2X, LED N44, 50W, 6700 lm, 24 V
- Electric wire reel 90 m
- Electric wire 3X1/0 - AWG (50mm)
- Protection degree IP 55

**HYDRAULIC CONTROL SYSTEM**

- Direct Control Valve Montabert Intelsense II, Parker K18
- Percussion pump (compensated pressure) Rexroth A10V0100
- Rotation Pump Parker PG315
- Work pressure 180 bar
- Hydraulic oil tank 130 l
- Hydraulic return filter Parker, 10µ
- Hydraulic high filter Parker, 20µ
- Saturation hydraulic filter indicator Parker
- Indicator of low oil Hydac
- Indicator temperature oil Hydac

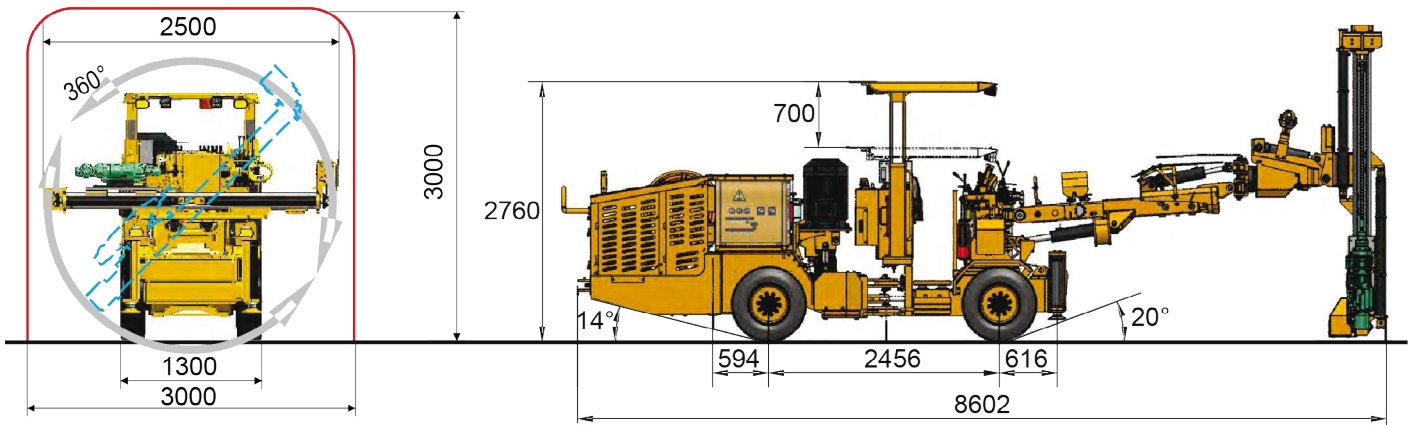
**BARICENTER SYSTEM**

- Shorter times for Boom positioning since both drilling and rotation axis are synchronized.
- Enables to use only two Trasducers for Digital Inclinometer instead of five from competitors.
- Speeds up the operation and productivity of the machine.



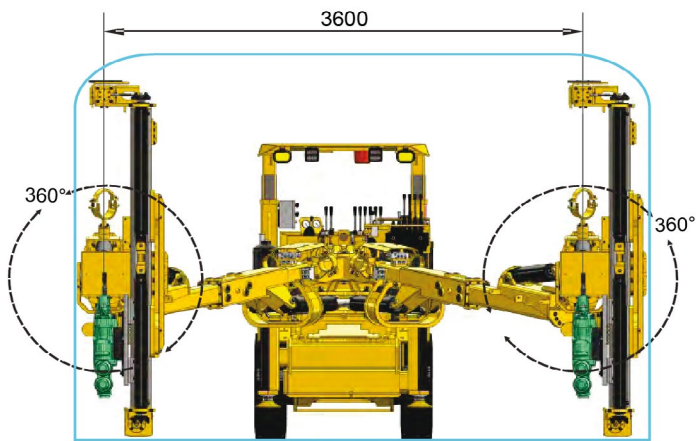


# DIMENSIONS

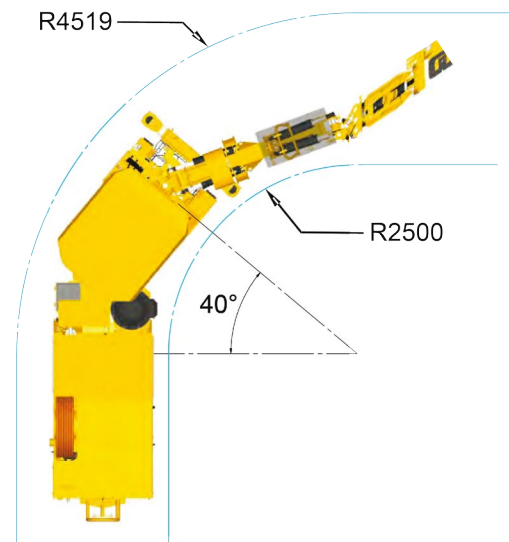


Total Weight	11,620 Kg.
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# COVERAGE AREA



# TURN RADIUS



**OPTION: With compressor for flushing**

