

# RAPTOR 55 XP

## Production long hole rig for medium sections

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RAPTOR 55 XP is an electro-hydraulic rig for long hole drilling, It has an hydraulic boom, 5APC model, with parallel holding. Use a Montabert Drifter HC 95 with 22 kW and Back -Hammering-rods extractor, the most modern rock drill in the market.

It comes equipped with the 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. The 8000 series feed beam with 3 Stingers provide the best stability to reduce the deviation. Includes Magazine for 14 rods, optional 21 rods.

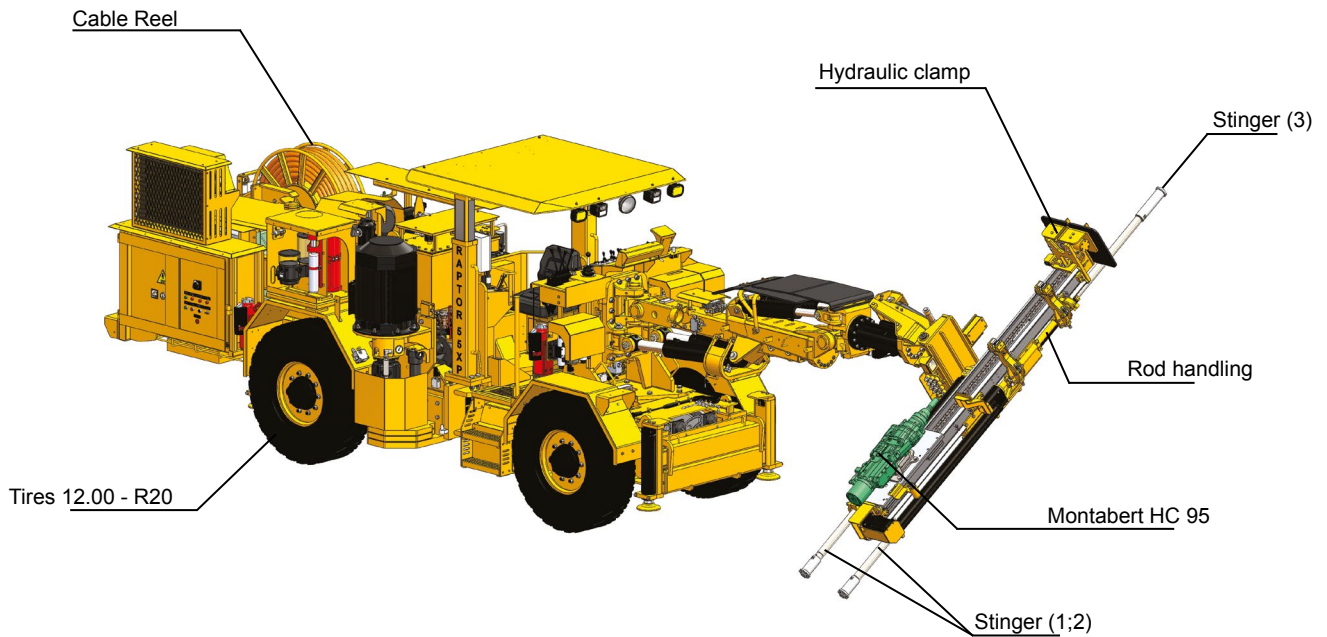
Full 360°, horizontal coverage with parallel holding is 3.60 m; maximum length of drilling up to 30 m, diameters up to 102 mm bit, Reamer 127 mm.

Chassis for heavy duty application, articulated 4WD, self-propelled with diesel, 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	715 mm
• Hydraulic clamp	Bull 120
• Standard Feed	5 ft rods
• Options	4, 6 rods
• Three Stinger to stabilize while drilling	
• Rod Handling	10 + 1 Rods
• Options	21 + 1 Rods
• Digital inclinometer for measuring angles	Transtronic

## CARRIER

• Model	C66
• Diesel Engine	Deutz BF4L914, Tier II, EPA II
• Power	72.4 kW @ 2300 rpm
• Exhaust catalyst	Standard
• Transmission	Hydrodynamics
• Powershift gearbox	Dana, T12000
• Axle front / rear	Dana, Serie 112
• Rear axle Oscillating	Parker, P315 B
• Positioning pump	± 8°
• Service brakes	Separate
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Tyres	12.00 R 20
• Steering (articulated carrier)	±41°
• Hydraulic jacks	2 extendable front, 2 rear
• Battery	2x12 V, 90 Ah
• Electric system	24 VDC
• Gradeability	15%
• Canopy	FOPS / ROPS
• Tramming lights	8X, Halogen 65W HD, 24 V
• Centralized Lubrication System	SKF
• Drilling Lubrication System	SKF
• Automatic fire suppression system	
• Fire extinguisher	ANSUL, 6 boquillas
• High-pressure washing system	1x6kg, Tipo ABC
• Reel grease gun	

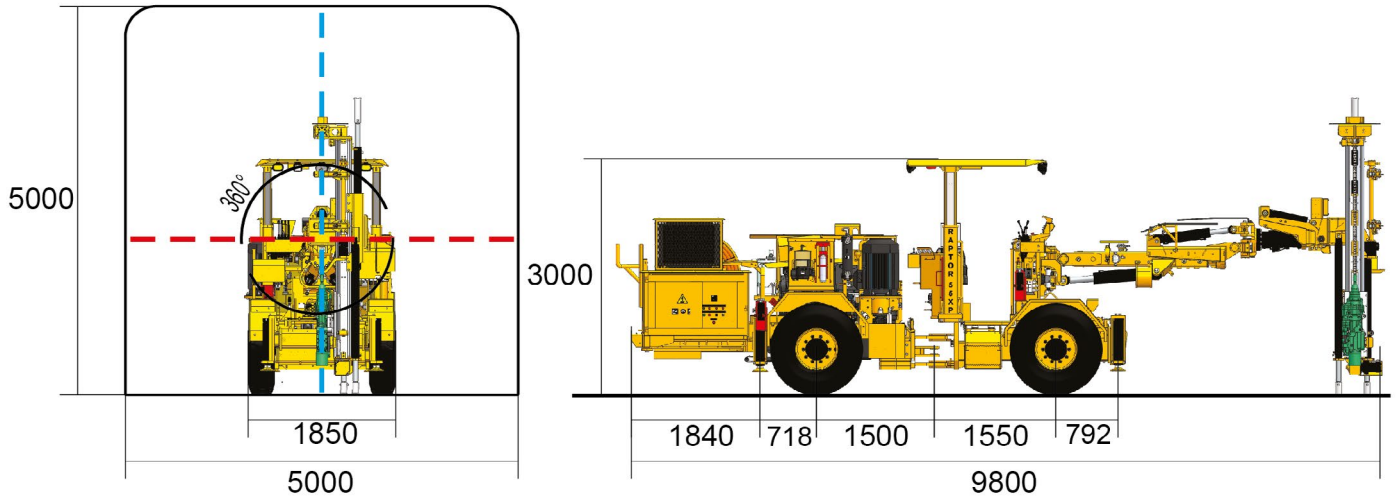
<b>BOOM</b>			
• Model		Boom 5 AP - C	
• Automatic parallelism			
• Boom Extension		1000 mm	
• Angle lift		+65°/ -20°	
• Swing angle		± 30°	
• Rotation angle		360°	
• Hydraulic cylinders		Parker	
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<b>ELECTRIC SYSTEM</b>			
• Electric motor		ABB - 75kW / 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	
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<b>HYDRAULIC CONTROL SYSTEM</b>			
• 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	
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<b>WATER AND AIR SYSTEM</b>			
• Compressor		AC, GA30	
• Maximum capacity		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	

**BARICENTER SYSTEM**

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



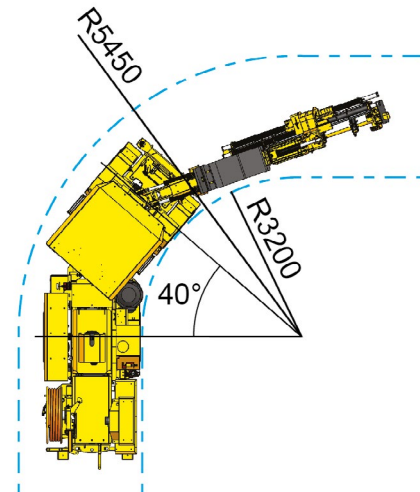
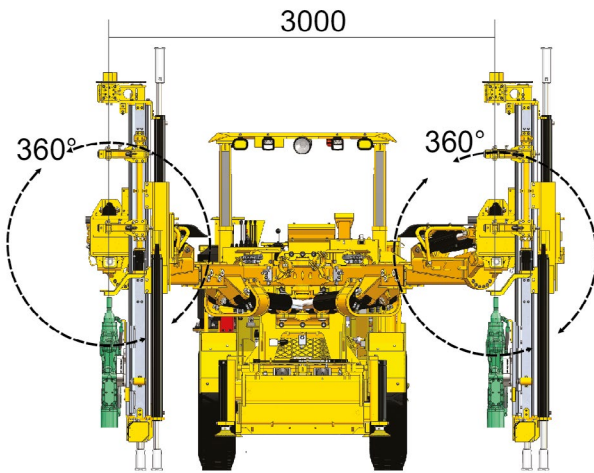
# DIMENSIONS



Total weight	14,537 Kg.
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## COVERAGE AREA

## TURN RADIO



### OPTION: Close cab with Air Conditioning

