

RAPTOR 55XP DRILLING

TECHNICAL SPECIFICATION



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.

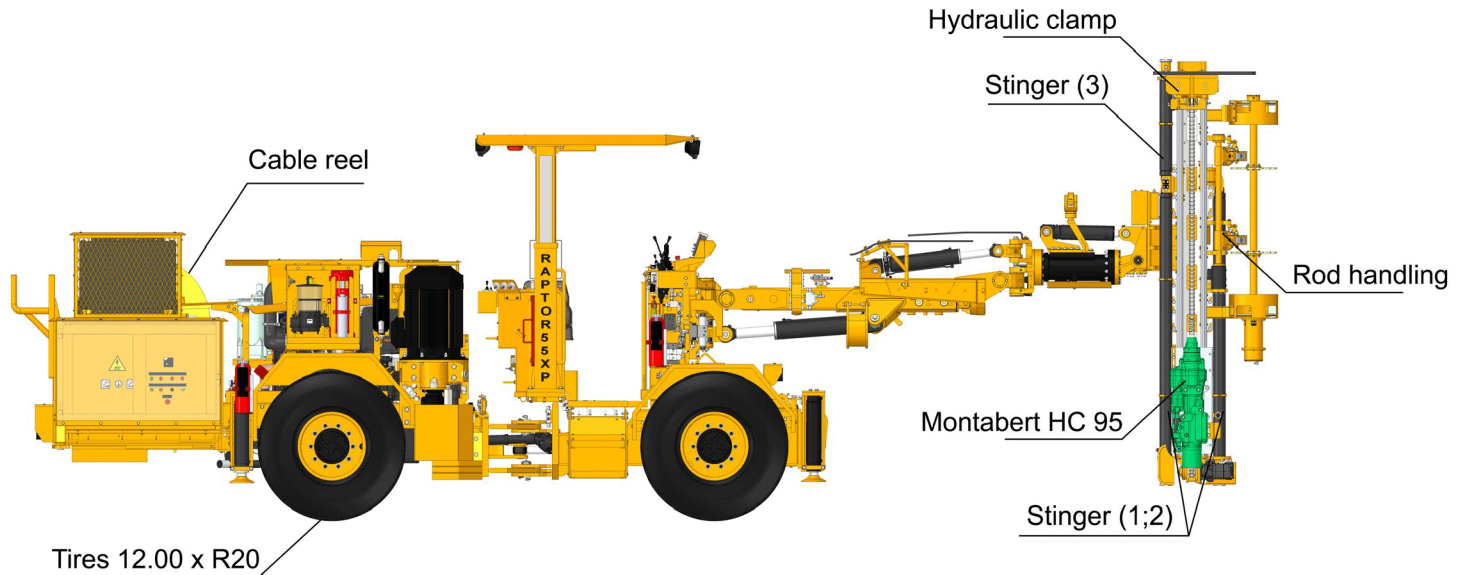
Full 360°, horizontal coverage with parallel holding is 3.60 m; maximum length of drilling up to 30 m, diameters up to 102 mm bit, Reamer 127 mm.

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	170 - 200 bar
• Frequency percussion	68 Hz
• Rotation speed	0 - 287 rpm
• Rotation torque	480 - 950 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, T51 Male
• Weight	185 kg

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
• 3 stinger to stabilize while drilling	
• Rod handling	
• Options	10 + 1 Rods
• Digital inclinometer for measuring angles	21 + 1 Rods
	Transtronic

CARRIER

• Model	C66.1
• 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 x R 20
• Steering (articulated carrier)	±41°
• Hydraulic jacks	2 extendable front, 2 rear
• Battery	2x12 V, 90 Ah
• Electric system	24 VDC
• Gradeability	0 - 15°
• Canopy	FOPS / ROPS
• Trimming lights	8X, Halogen 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	

BOOM

• Model	Boom 5 AP - C
• Automatic parallelism	
• Boom extension	1000 mm
• Angle lift	+53°/ -20°
• Swing angle	± 30°
• Feed roll-over	360°
• Hydraulic cylinders	Parker

ELECTRIC SYSTEM

• Electric motor	ABB - 75kW / 100 HP
• Voltages	380 - 440 - 550 - 690 -1000 V
• 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
• Working lights	2X, LED N44, 50W, 6700 lm, 24 V
• Electric cable reel	90 m
• Electric cable	3X1/0 - AWG (50mm)
• Protection degree	IP 55

HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Rotation pump	Parker PGP620
• Working pressure	200 bar
• Hydraulic oil tank volume	130 l
• Hydraulic return filter	Parker, 10µ
• Hydraulic pressure filter	Parker, 20µ
• Saturation hydraulic filter indicator	Parker
• Indicator of low oil	Hydac
• Indicator temperature oil	Hydac

WATER AND AIR SYSTEM

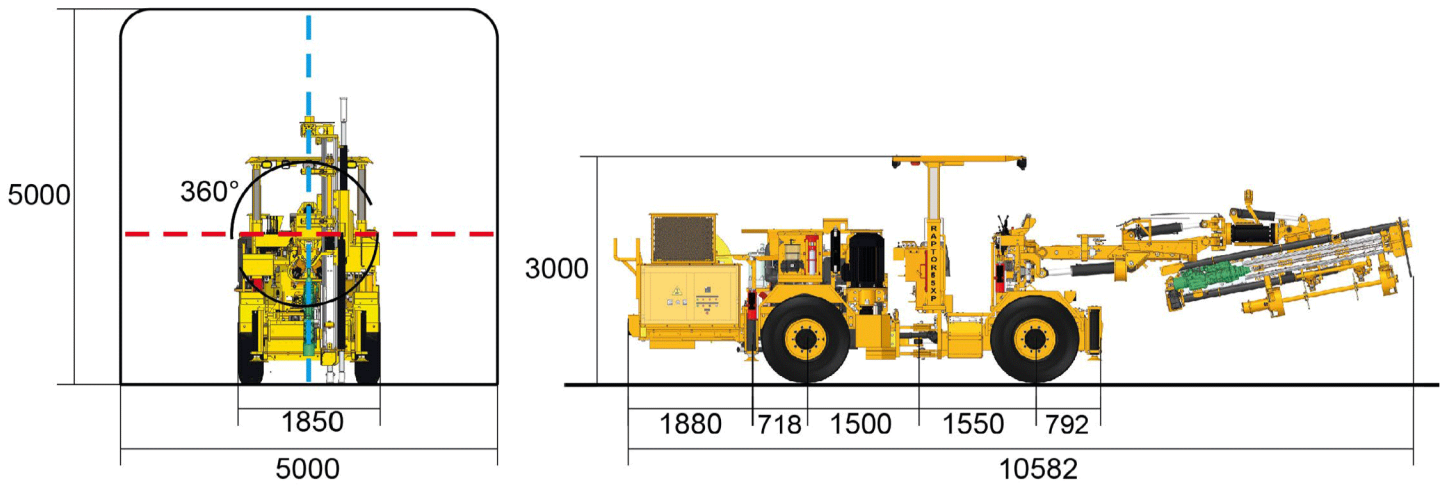
• Compressor	GA30
• Maximum capacity	178 CFM
• Working pressure	9.1 Bar
• Water pump with hydraulic motor	Grundfoss, CR5 - 9
• Maximum capacity	6.9 m³/h
• Minimum inlet pressure	2 bar
• Bowman cooler	FG120, 48.6 GPM, 20 bar

BARYCENTER SYSTEM

“Drilling Axis and Rotation Axis are synchronized”

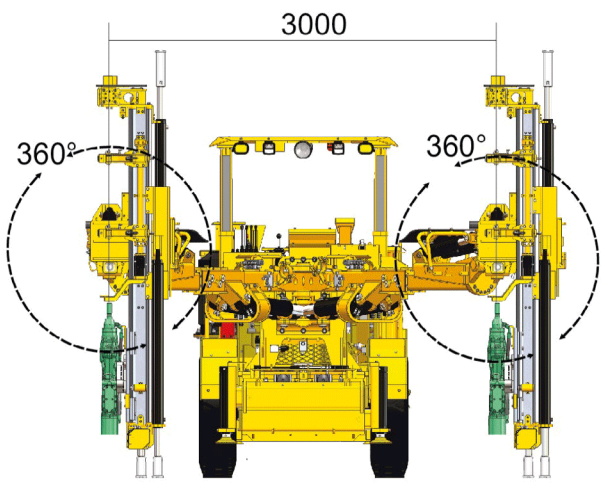


DIMENSIONS

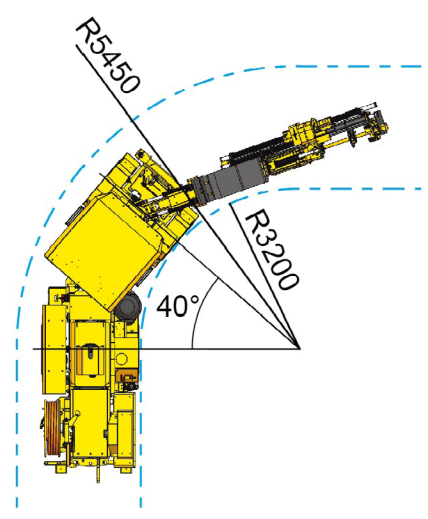


Total weight	14,537 Kg.
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COVERAGE AREA



TURN RADIO



OPTION: Close cab with Air Conditioning

