

BOLTER 100

Roof bolter for medium to big sections



BOLTER 100 is a drilling rig for mechanized roof bolting and meshing in mine sections, from 4x4 up to 8.5 m high.

Equipped with Bolting Turret T99 equipped with two Montabert rock drills, a HC 50 for drilling and a HC 28 for bolting and Magazine of bolts. It can install Split Set bolts, Rebar with resin or cement cartridges, Mechanical, Swellex, Hydrabolt, Rockbolts and Python. The drilling feed has a centralizer design which works like Mesh Holder when the mesh is installed on pieces. An independent boom mesh manipulator is offered as an option, allows mechanized meshing all the entire operation combined in a safe way for the operator.

Chassis for heavy duty application, articulated 4WD, self-propelled with diesel, electro hydraulic system for drilling.

SPECIFICATIONS



DRIFTER

• Model (drilling)	Montabert HC50
• Percussion power	14 kW
• Percussion pressure	130 Bar
• Frequency percussion	62 Hz
• Rotation speed	195 rpm
• Rotation torque	415 Nm
• Hole diameter	33 - 64 mm
• Weight	102 kg
• Model (bolting)	Montabert HC28
• Percussion power	9.5 kW
• Weight	103 kg
• Shank adapter	HC 50 - R32 Female HC 28 - R32 Female

BOLTING TURRET

• Model	T99
• Magazine of bolts capacity and plate	10 unit of 20 cm plate 12 unit of 15 cm plate
• Drilling feed	RE 5000 Series
• Feed extension	350 mm
• Advance drilling	Hydraulic motor and chain
• Coupling mesh clamp beam drilling	
• Manipulate boom for meshing	300 kg load capacity
• Kind of rock bolts	Split Set bolts, Rebar, Mechanical, Swellex, Hydrabolt and Python

Options

Bolt lenght	Bolt head lenght	Coverage area
7'	3325 mm	7570 mm
8'	3630 mm	7875 mm
10'	4520 mm	8500 mm

CARRIER

• Model	C77
• Diesel engine	Caterpillar C4.4 ACERT, Tier 4
• Power	106 kW @ 2200 rpm
• Exhaust catalyst	Standard
• Transmission	Hydrodynamics
• Powershift gearbox	Dana, T20000
• Axle front / rear	Dana, Serie 113
• Rear axle oscillating	± 8°
• Positioning pump	Parker, P315 B
• Service brakes	Separate
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Tyres	12.00 R 20
• Steering (articulated carrier)	±41°
• Tramming speed	Flat - 16 kph 15% - 6 kph
• Fuel tank	95 l
• Hydraulic jacks	2 extendable front, 2 rear
• Battery	2x12 V, 90 Ah
• Electric system	24 VDC
• Gradeability	0-15°
• Canopy	FOPS / ROPS
• Tramming 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	

BOOM

• Model	Boom 16.2
• Boom extension	1500 mm
• Weight	1600 kg
• 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 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 pannel
• 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

OPTIONS

• Diesel engine	Deutz BF6L914, Tier III 112 kW @ 2300 rpm FOPS/ROPS certified
• A/C Enclosed Cabin	
• Tropical cooler for hot enviroment	Parker, BOL-725-2-3

WATER AND AIR SYSTEM

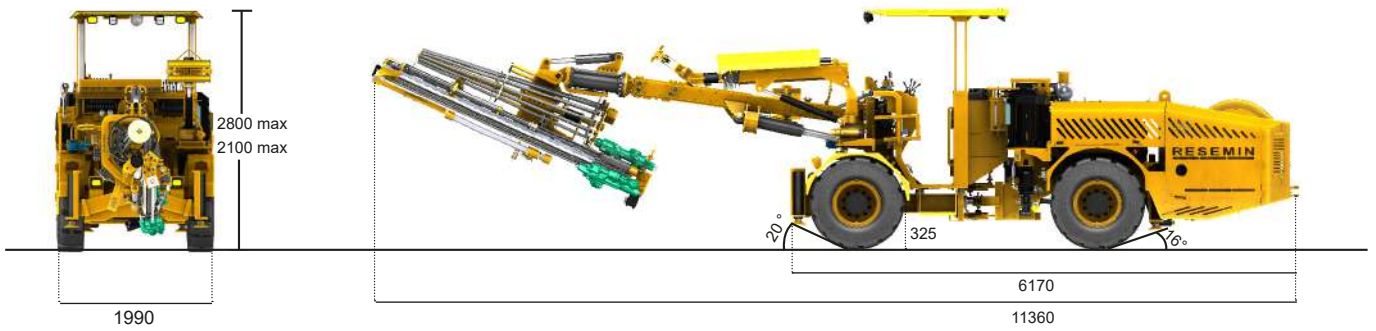
• Compressor	LE7-10UV Hydraulic driven
• Maximum capacity	28 CFM
• Water pump capacity	115 l/m
• Working pressure	10 bar
• Water pump with hydraulic motor	Grundfoss, CR5 - 9
• Maximum capacity at 9.5 bar	0.8 m ³ /min
• Minimum inlet water pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar
• Air tank	60 l

HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Triple rotation pump	Parker PGP620
• Working pressure	180 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



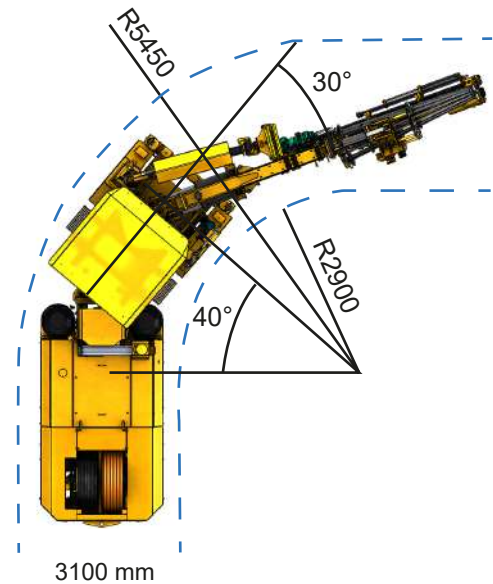
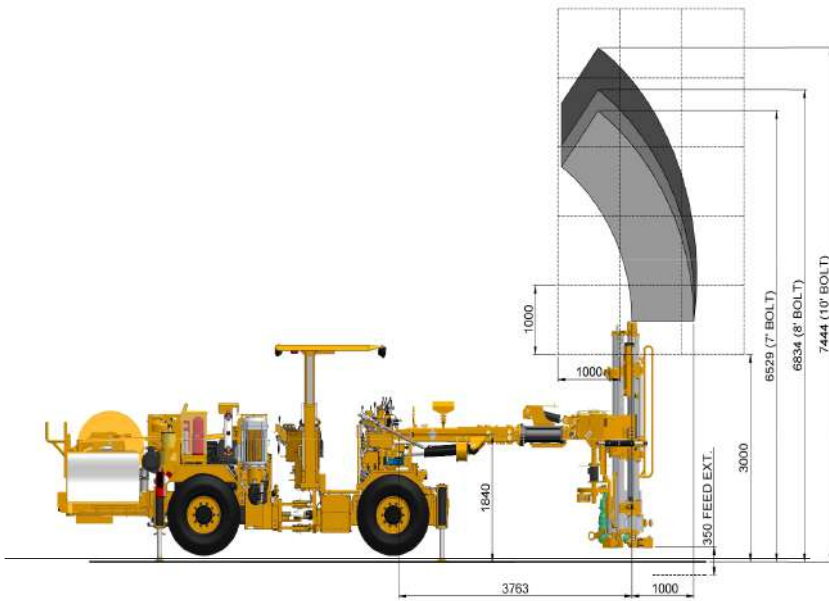
DIMENSIONS



Total Weight	14,920 Kg.
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COVERAGE AREA

TURNING RADIUS



OPTIONAL: BOOM MESH MANIPULATOR

