

SMALL BOLTER 99

Roof bolter for small to medium sections

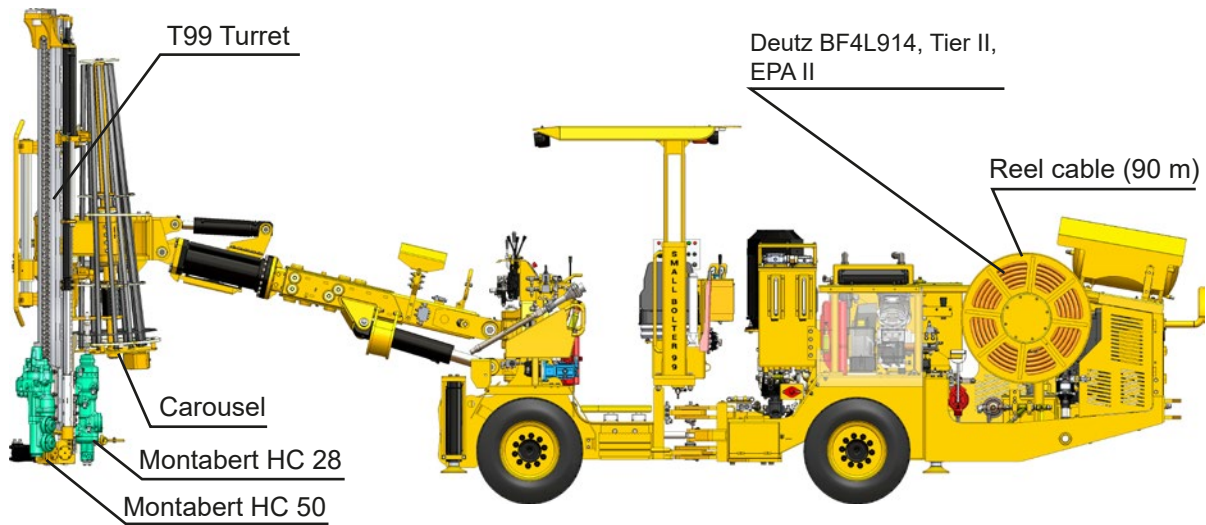


SMALL BOLTER 99 is a drilling rig for mechanized roof bolting, allows reinforce efficient and safe structures roofs in underground mines, for small to medium-sized sections from 3.5 x 3.5 up to 5.3 m high.

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.

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

ESPECIFICATIONS



DRIFTERS

• 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, Hydra-bolt and Python

BOOM

• Model	Boom 12.2
• Boom Extension	700 mm
• Angle lift	+46° / -20°
• Swing angle	± 30°
• Feed roll-over	360°
• Hydraulic cylinders	Parker

CARRIER

• Model	C44.4
• Diesel engine	Deutz BF4L914, Tier II, EPA II
• 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	8.25 x R15
• Steering (articulated carrier)	±38°
• Hydraulic jacks	2 extendable front, 2 rear
• Fuel tank	
• 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	15.8 gal / 60 l
• Reel grease gun	

HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Percussion pump (compensated pressure)	Rexroth A10V071
• Triple rotation pump	Parker PGP620
• Working pressure	180 bar
• Hydraulic oil tank volume	130 L
• Hydraulic return filter	Parker, 20μ
• Hydraulic pressure filter	Parker, 10μ
• Saturation hydraulic filter indicator	Parker
• Indicator of low oil	Hydac
• Indicator temperature oil	Hydac

WATER AND AIR SYSTEM

• Compressor	LE7-10UV
• Maximum capacity	28 CFM
• Water pump capacity	115 l/m
• Working pressure	10 bar o 145 psi
• Water pump with hydraulic motor	Grundfoss, CR5 - 9
• Maximum capacity at 9.5 bar	0.8 m³/min
• Minimum inlet water pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar
• Air tank	60 l

ELECTRIC SYSTEM

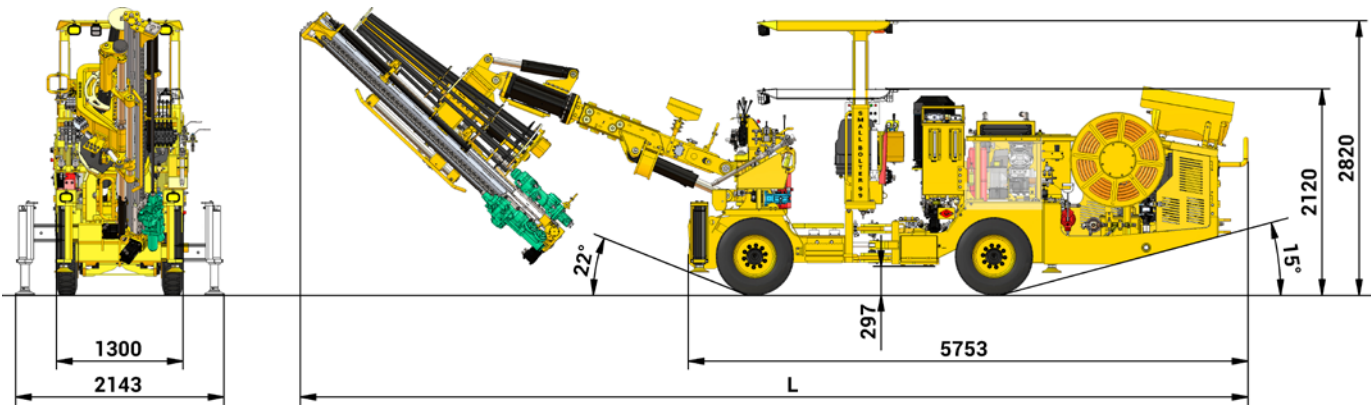
• Electric motor	ABB - 55kW (75 HP)
• Voltage	380 - 440 - 550 - 690 -1000 VAC
• Frequency	50 - 60 Hz
• Starting method	Star - Delta
• Option to 1000 VAC	Direct start
• Overload protection and ground fault	Schneider, Module VIGI
• Percussion hour meter	In the control panel
• Phase sequence indicator	Siemens
• Battery charger	32 VAC, 300W, 13A
• Electric transformer	1,5 kVA
• Working lights	2X, LED N44, 50W, 6700 lm, 24 V
• Electric cable reel	90 m
• Electric cable	3X2 - AWG (35 mm)
• Electric panel	Protection degree IP 55

OPTIONS

• A/C Enclosed Cabin	FOPS/ROPS certified
• Tropical cooler for hot environment	Parker, BOL-725-2-3
• Boom Mesh Manipulator	



DIMENSIONS

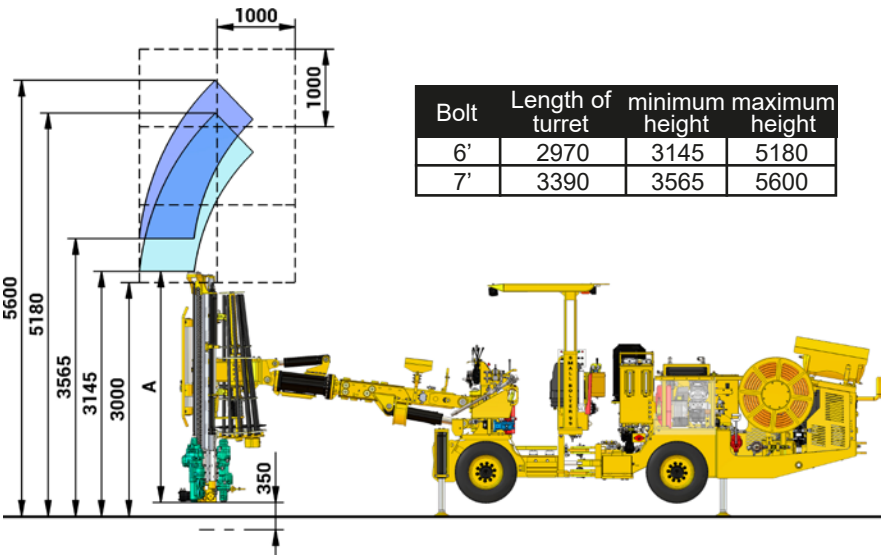


Bolt	6'	7'
Length of rig (L)	9,432	9,742

Total weight
11 500 kg

COVERAGE AREA

TURNING RADIUS



Bolt	Length of turret	minimum height	maximum height
6'	2970	3145	5180
7'	3390	3565	5600

