

MUKI BOLTER

Roof bolter for small sections

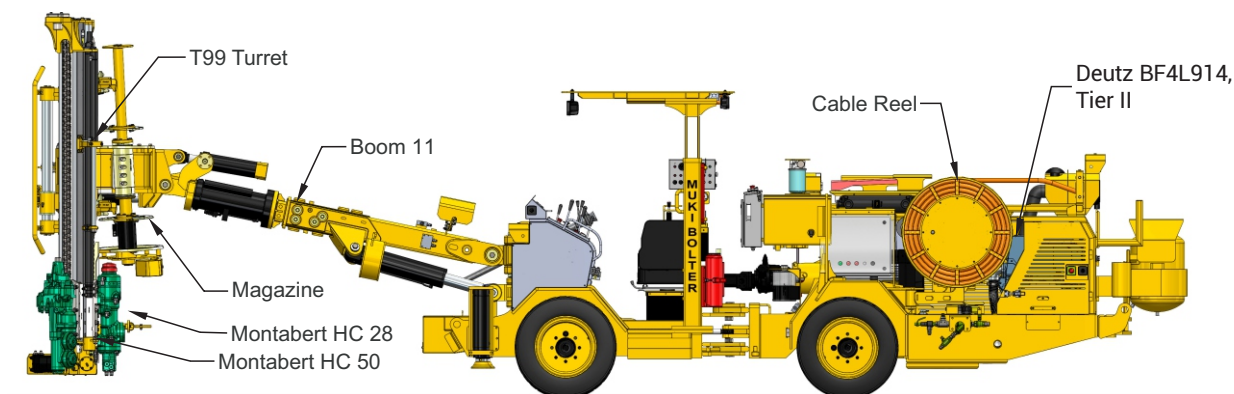


MUKI BOLTER for roof bolting and mechanized meshing, allows to efficiently and safely reinforce roof structures in underground mines, ideal for sections of 2.7 x 2.7 m up to 5 m of height.

Equipped with Bolting Turret T99 with two Montabert drillers, HC 50 for drilling and HC 28 for bolting and Magazine of bolts. It can install Split Set bolts, Rebar with resin or cement, Swellex, Hydrabolt and Python.

Chassis for heavy duty, articulated 4WD, self-propelled with diesel engine and electrohydraulic system for drilling.

SPECIFICATIONS



DRIFTER

Drilling Feed

• Model	Montabert HC 50
• Percussion power	14 kW
• Percussion pressure	110 - 130 bar
• Frequency	62.5 Hz (3750 bpm)
• Rotation Speed	0 - 193 rpm
• Rotation torque	385 Nm
• Hole diameter	33 - 45 mm
• Air consumption (flushing)	7m ³ /min (8-10 bar)
• Air consumption (lubrication)	300 l/min (a 3 bar)
• Oil consumption (lubrication)	0.8 cc/min
• Water consumption	30-60 l/min (12-20 bar)
• Shank adapter	R32 female
• Weight	104 kg

Bolting Feed

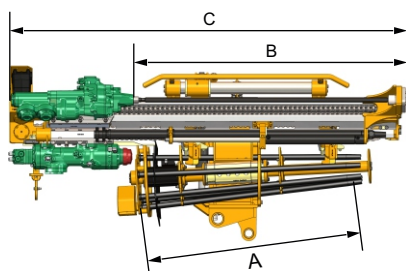
• Model	Montabert HC 28
• Percussion power	9.5 kW
• Shank adapter	R32 female
• Weight	103 kg

BOLTING TURRET

• Model	T99
• Magazine of bolts capacity and plate	06 bolts with 20 cm plate
• Double feed	RE 5000 Series
• Feed extension	250 mm
• Drifter advance	Hydraulic motor and chain
• Coupling mesh clamp feed drilling	
• Type of bolts	Split Set, Hydrabolt, Rebar, Swellex

Options:

Bolt (A)	Rod (B)	Turret length (C)
5' (1,524 mm)	6' (1,829 mm)	2,660 mm
6' (1,829 mm)	7' (2,134 mm)	2,960 mm



CARRIER

• Model	C22.1
• Diesel engine	Deutz BF4L914, Tier II
• Power	72.4 kW @ 2300 rpm
• Exhaust catalyser	DOC (Diesel Oxidation Catalyst)
• Transmission	Hydrostatic
• Transmission pump	Poclain
• Hydrostatic motor	Four MSE 08 motors
• Rear axle oscillating	± 8°
• Tramming speed:	
- Horizontal	Max. 6 km/h
- Positive ramp 15%	Max. 6 km/h
• Positioning pump	Parker
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
	±35° (*)
• Steering (articulated carrier)	10 x R15
• Tyres	2 extendable front, 2 rear
• Hydraulic jacks	FOPS / ROPS
• Canopy	10.5 gal / 40 l
• Fuel tank	2x12 V, 95 Ah
• Battery	24 VDC
• Electric system	8X, LED 28W, 9-32 V
• Tramming lights	SKF
• Centralized grease system	SKF
• Drilling lubrication system	
• Automatic fire suppression system	ANSUL, 2 nozzles
• Fire extinguisher	1x5 lb (PQS)

BOOM

• Model	Boom 11
• Boom extension	700 mm
• Lift angle	+50° / -8°
• Swing angle	±30° (**)
• Rotation	360°
• Hydraulic cylinders	



(*) ±30° for 6' Turret - Carrier
 (**) ±25° for 6' Turret - Boom

HYDRAULIC CONTROL SYSTEM

• Direct control valve	Parker KA-18
• Drilling control	DCS (Direct Control System)
• Percussion pump (compensated pressure)	Rexroth A10V071
• Gear pump	Parker
• Working pressure	180 - 200 bar
• Hydraulic oil tank	33.8 gal / 154 l
• Hydraulic return filter	Parker, 10µ
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

WATER AND AIR SYSTEM

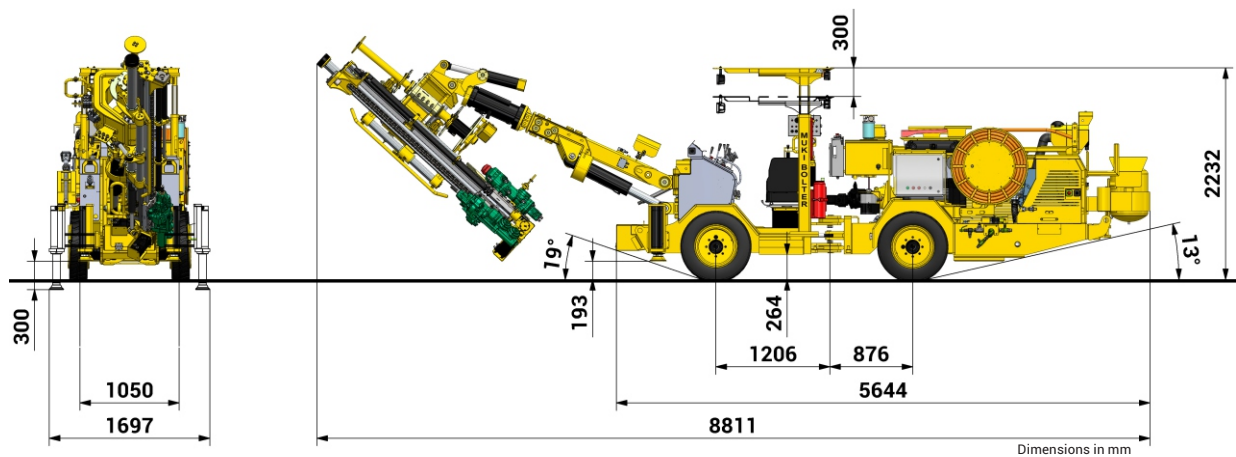
• Electric compressor	LE7-10UV
• Maximum capacity	13.6 l/s (28 CFM)
• Working pressure	10 bar
• Water pump and hydraulic motor	Grundfoss, CR5 - 9
• Maximum flow	6.9 m³/h (115 l/m)@3500rpm
• Minimum water inlet pressure	2 bar
• Bowman cooler	FG-120, 48.6 GPM, 20 bar
• Air tank	60 l

ELECTRIC SYSTEM

• Electric motor	55kW (75 HP)
• Voltage	380 - 1000 VAC
• Frequency	50 - 60 Hz
• Starting method	Star - Triangle
• Option to 1000 VAC	Direct start
• Overload protection and ground fault	
• Percussion horometer	24V
• Phase sequence indicator	
• Battery charger	IN 32 VAC, 300W 13A OUT 28 VDC
• Electric transformer	1.5 kVA
• Working lights	2X, LED 50W, 9-32 V
• Electric cable reel	60 m
• Electric cable	3x2 AWG
• Degree of protection	IP 55



DIMENSIONS



Bolt	5'	6'
Length of rig (L)	8,810	8,790

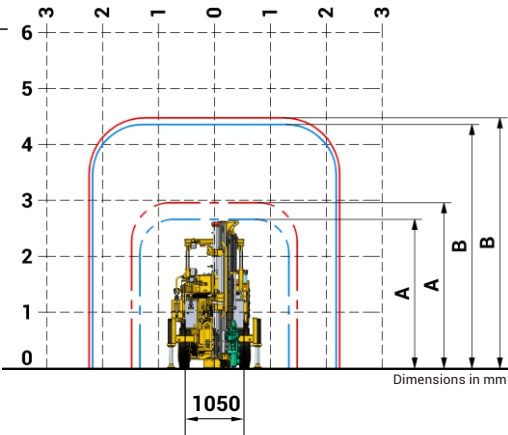
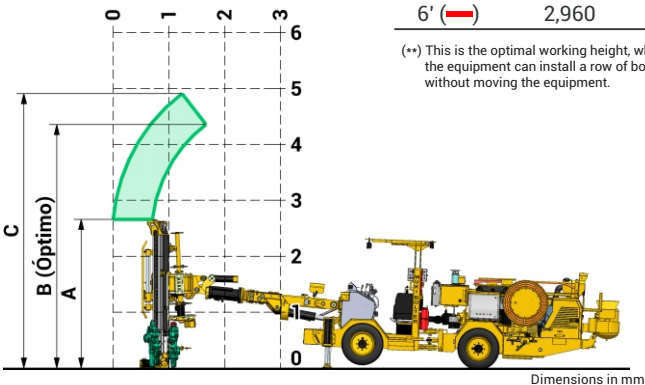
Total Weight
10,400 kg

COVERAGE

Optimum work roof height
(**)

Bolt	Turret length (A)	Optimum (B)	Height Max. (C)
5' (blue)	2,660	4,357	4,911
6' (red)	2,960	4,477	5,031

(**) This is the optimal working height, where the equipment can install a row of bolts without moving the equipment.



TURNING RADIUS

