

SCALER BOLTER 55

A roof bolter prepared for scaling operation



SCALER BOLTER 55, at last the roof bolter that miners were waiting for. Roof Bolter and Scaler, both in one.

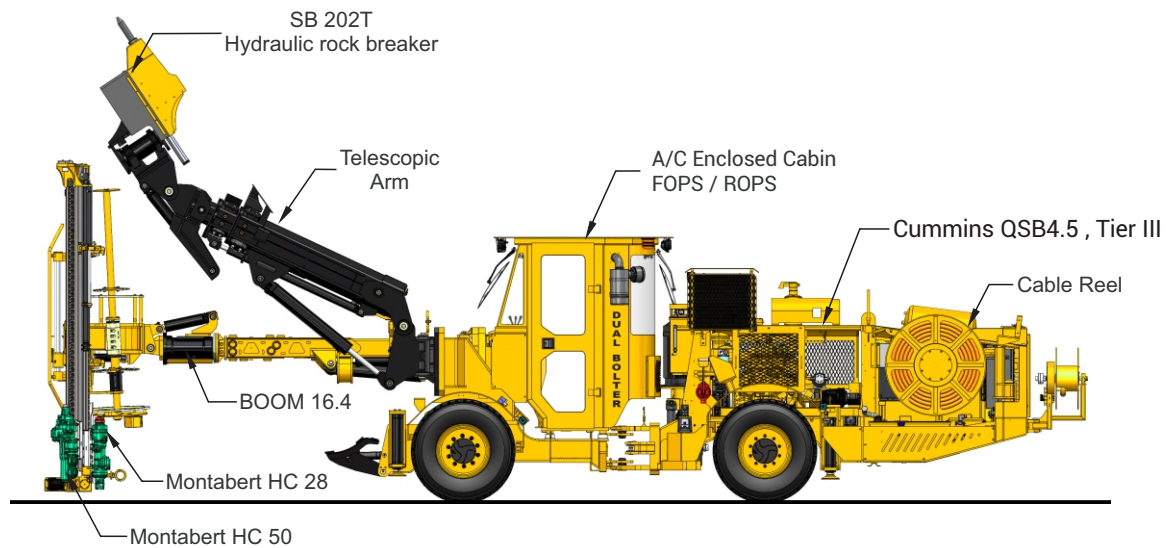
This machine boosts the mining cycle since two tasks are engaged without loss of time and, the most important, it makes the scaling in a green way, connected to power, no diesel, it means the opposite of the current way for the scalers on the market.

This is a green machine aligned with the top goal to make a cleaner underground operation and with an effective less cost operation because only one operator for a machine that makes two tasks makes the difference.

The Dual Bolter has two booms, one equipped with Turret T99 for fully mechanized roof bolting and another robust one prepared for scaling.

Heavy-duty 4WD chassis, with center articulation and oscillating rear axle.
It also has an enclosed cabin and FOPS / ROPS certified.

SPECIFICATIONS



HYDRAULIC ROCK BREAKER

• Model	SB 202T
• Percussion power	13 kW
• Percussion pressure (máx.)	100 - 110 bar
• Frequency	1250 - 1700 bpm
• Air flow range	0.73 m ³ /min
• Air pressure	2 bar
• Oil flow range	40 - 70 l/min
• Weight	200 kg

OPTION

• Model	SC 28
• Percussion power	15 kW
• Percussion pressure (máx.)	120 bar
• Frequency	1420 bpm
• Oil flow range	40 - 75 l/min
• Weight	275 kg

TELESCOPIC ARM

• Model	ST7.2
• Lift angle	-25° / +44°
• Swing angle	±30°
• Arm extension (1)	1550 mm
• Arm extension (2)	1400 mm
• Max. vertical reach	8.59 m
• Max. horizontal reach	8.16 m
• Swing (SB 202T)	120°
• Tilt (SB 202T)	101°
• Extension (SB 202T)	295 mm

DRIFTER (BOLTING)

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	10 bolts with 20 cm plate 12 bolts with 15 cm plate
• Double feed	RE 5000 Series
• Feed extension	340 mm
• Drifter advance	Hydraulic motor and chain
• Coupling mesh clamp feed drilling	
• Type of bolts	Split Set, Hydrabolt, Rebar, Swellex

BOOM (BOLTING)

• Model	Boom 16.4
• Boom extension	1600 mm
• Lift angle	+50° / -20°
• Swing angle	±30°
• Rotation	360°
• Hydraulic cylinders	

CARRIER

• Model	C77.5
• Diesel engine	Cummins QSB4.5 , Tier III
- Power	130 kW @ 2300 rpm
• Exhaust catalyser	DOC (Diesel Oxidation Catalyst)
• Transmission	Hydrodynamics
• Powershift gearbox	Dana, T20000
• Differential axle	Dana, Series 113
• Rear axle oscillating	± 8°
• Tramming speed:	
- Horizontal	Máx. 16 km/h
- Positive ramp 15%	Máx. 7 km/h
• Positioning pump	Parker
• Service brakes	Wet discs
• Emergency and parking brakes	SAHR (Spring Applied Hydraulic Release)
• Steering (articulated carrier)	±40°
• Tyres	12.00 x R20
• Hydraulic jacks	2 extendable front, 2 rear
• A/C Enclosed Cabin	FOPS / ROPS
• Fuel tank	24 gal / 92 l
• Battery	2x12 V, 90 Ah
• Electric system	24 VDC
• Tramming lights	8X, LED 28W, 9-32 VDC
• Centralized grease system	SKF
• Drilling lubrication system	SKF
• Automatic fire suppression system	ANSUL, 4 nozzles
• Fire extinguisher	1x20 lb (PQS)
• High pressure washing system	manual
• Reel grease gun	manual

HYDRAULIC CONTROL SYSTEM (DUAL)

• Direct control valve	Parker KA-18
• Drilling Control	PCS (Piloted Control System)
• Percussion pump (compensated pressure)	Rexroth A10VO100
• Triple pump	Parker
• Working pressure	180-200 bar
• Hydraulic oil tank	51.5 gal / 195 l
• Hydraulic return filter	Parker, 10µ
• Hydraulic pressure filter	Parker, 10µ
• Hydraulic filter saturation indicator	Parker
• Low oil level indicator	Hydac
• Oil temperature indicator	Hydac

ELECTRIC SYSTEM

• Electric motor	60 Hz, 75 kW (100 HP)
• Voltage	380 - 440 VAC
	Options: 550 - 690 - 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	3.5 kVA
• Working lights	2X, LED 50W, 9-32 VDC
• Electric cable reel	65 m
• Electric cable	3x4/0 AWG
• Degree of protection	IP 55

WATER AND AIR SYSTEM

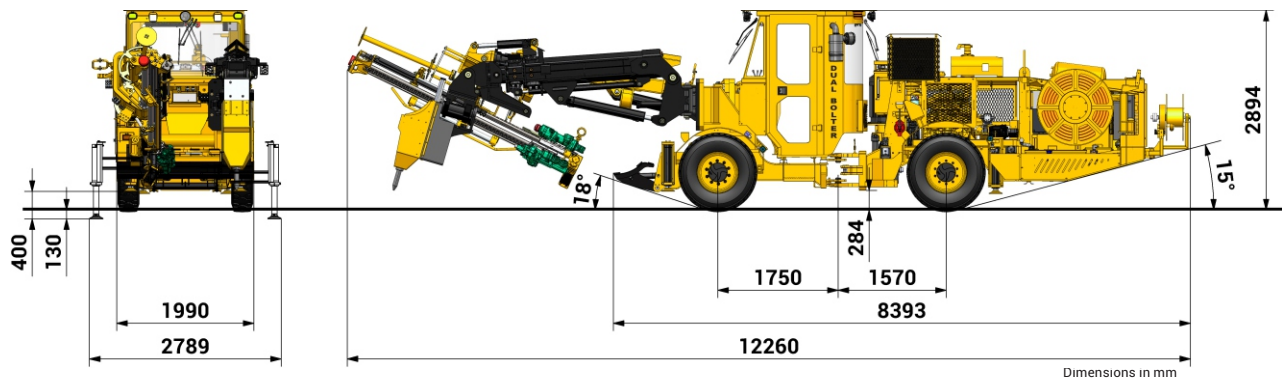
• Compressor	CTN3
• Maximum capacity	1.65 m³/min
• Working pressure	5 - 8 bar
• Water pump and hydraulic motor	Grundfoss, CR10-10
• Maximum flow	12 m³/h (200 l/m)@3525rpm
• Minimum water inlet pressure	2 bar
• Bowman cooler	GL-240-1429
• Air tank	60 l

OPTIONS

• Operator Cabin	Canopy
• Diesel engine	- Caterpillar C4.4 ACERT, Tier 3 106 kW @ 2200 rpm
	- Mercedes 904, Tier III
	- Deutz BF6L914
	112 kW @ 2300 rpm

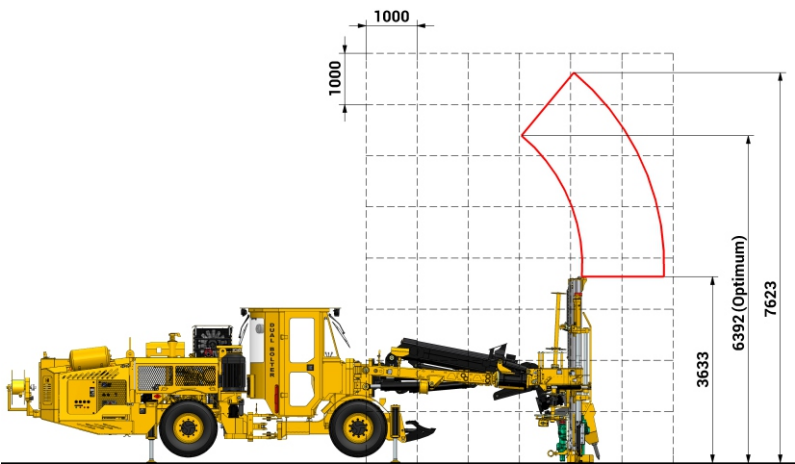


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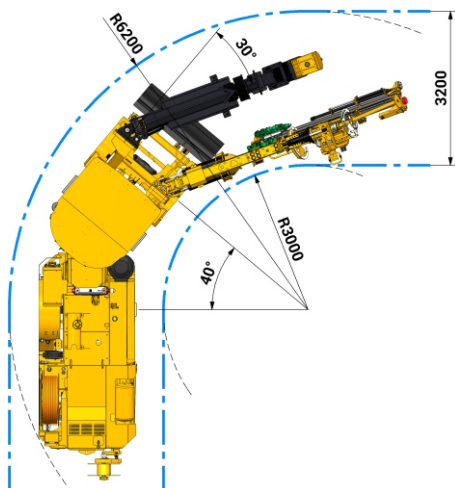


Total Weight
26,500 kg

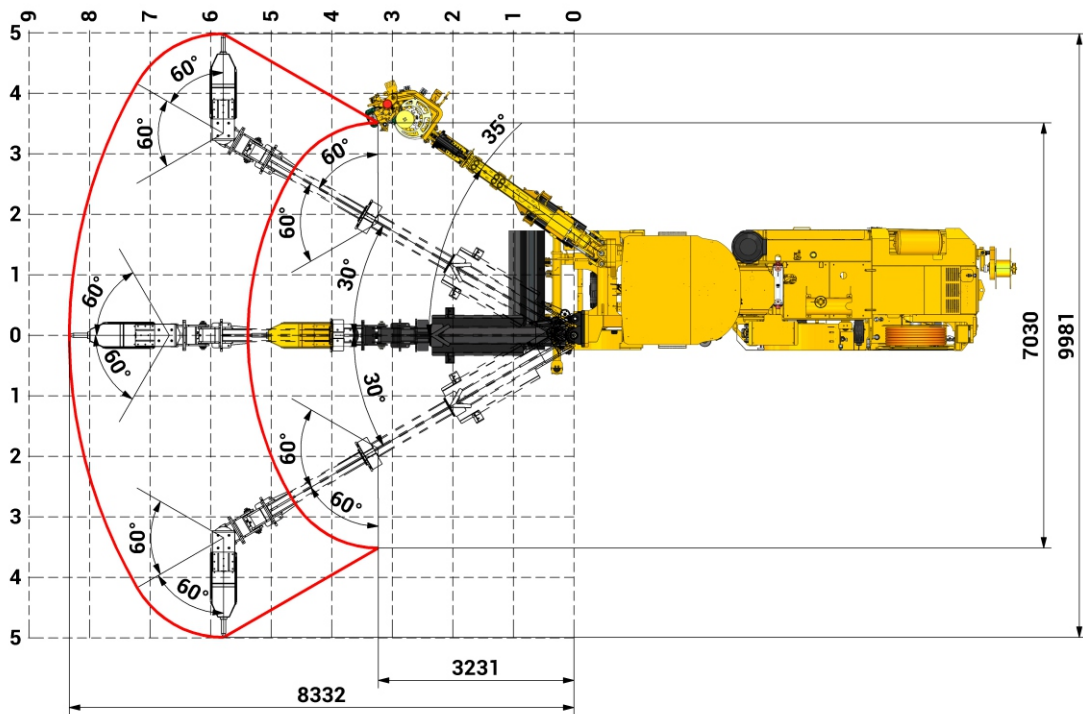
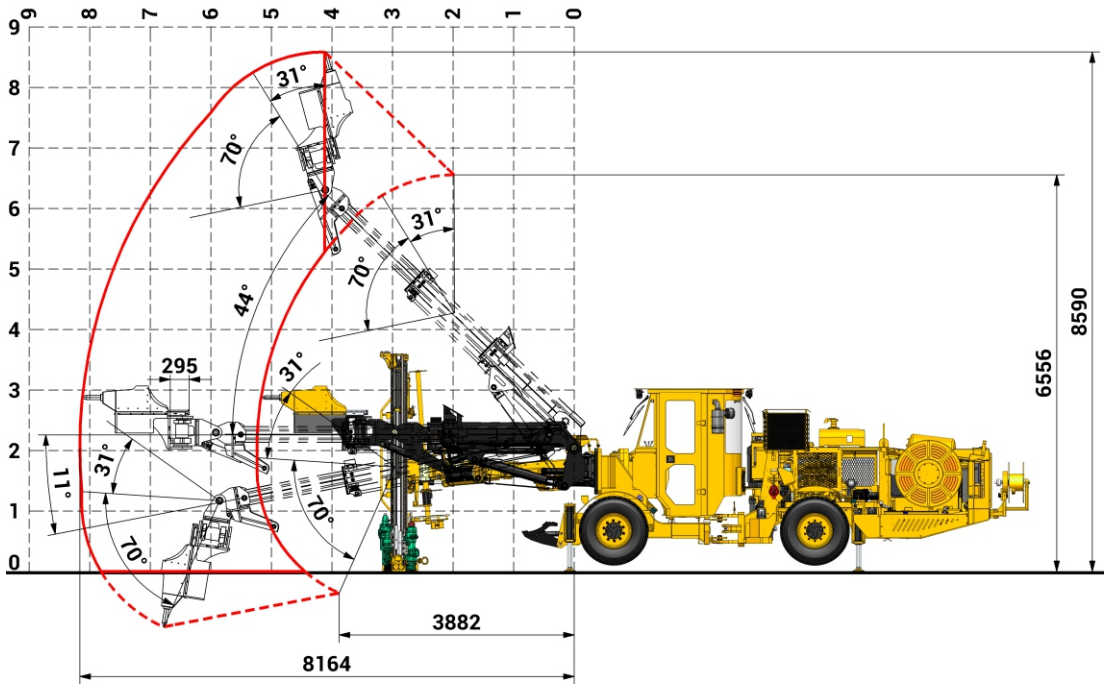
COVERAGE



TURNING RADIUS



COVERAGE



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