

### DT1230-SC UNDERGROUND DRILL RIG

### **TECHNICAL SPECIFICATION**



#### APPLICATION

The DT1230-SC is a 3-boom electro-hydraulic jumbo for fast and accurate drilling in tunneling and cavern excavation of 20  $-203~m^2$  cross sections.

The advanced, electronic controlled drilling system with added automatic functions and different optional instrumentation levels enable productive and high quality tunneling. Builtin diagnostics help to minimize maintenance time.

The HFX5T high frequency rock drills deliver superior performance with high consumable life.

The special elevating boom support with TB 150 booms provides an extra large optimum shaped coverage and electronic parallel holding in manual mode. The booms can also be used for cross-cutting, bolt hole drilling and extension drilling applications. An optional basket boom for bolting and utility works is available.

The powerful 4-wheel-drive wheel steered carrier ensures rapid and safe tramming with good balance.

The noise and vibration insulated safety cabin provides an ergonomic workplace with excellent visibility for both tramming and drilling.

### MAIN SPECIFICATIONS

1 x TC 12

1 x FOPS (ISO 3449)

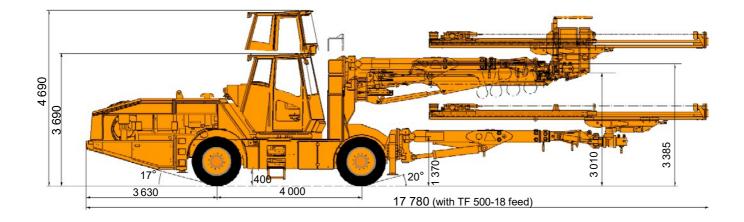
Elevating (1 000 mm)

Carrier Safety cabin

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Rock drill	3 x HFX5T
Feed	3 x TF 500–18
Boom	3 x TB 150
Elevating boom support	1 x TES (600 mm)
Control system	1 x TPC 563
Powerpack	3 x HP 575 (75,0 kW)
Air compressor	1 x CT 10
Shank lubricating device	1 x SLU 3
Water pump	1 x WBP 3 HP
Main switch	1 x MSE 30
Cable reel	1 x TCR 6E
Length	17 780 mm
Width	2 900 mm
Height	
Čabin down	3 690 mm
Cabin up	4 690 mm
Weight	42 000 kg
Tramming speed	
Horizontal	15,0 km/h
14 % = 1:7 = 8°	4,5 km/h
Gradeability	28 % = 1:3,5 = 15°
Noise level (EN 791, free field o	
In cabin	LpA = 80 dB
Emitted	LwA = 128 dB

## DT1230-SC

### **GENERAL DIMENSIONS**



### TC 12 CARRIER

Diesel engine

Transmission Axles Brakes Service

Parking and emergency

#### Tyres

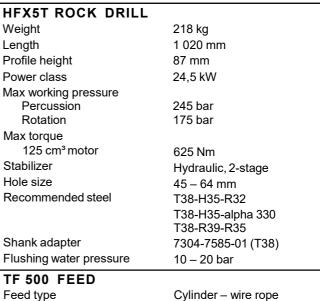
Steering

Rear oscillation Ground clearance Fuel tank Hydraulic jacks Front

Rear Safety cabin MB OM 906 LA 170 kW (228 hp) Clark 32 000 Hydrodynamic Clark-Hurth

Hydraulically operated wet disc brakes SAHR type fail-safe Front: dry disc brakes Rear: wet disc brakes 14.00 – 24 PR 28 Double wheels in front Axle steering in engine end Orbitrol  $\pm 8^{\circ}$ 400 mm 150 l

2 x TJ 60 Telescopic 2 x TJ 75 FOPS (ISO 3449) Elevating (1 000 mm) Pressurized Cabin heating (drilling) Operator seat



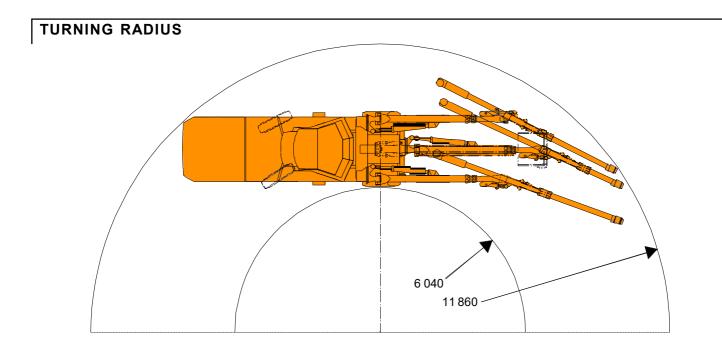
Feed type Feed force

25 kN

FEED TF 500–	Total length (mm)	Hole length (mm)	Rod length (mm)	Machine length (mm)	
14'	5 880	4 050	4 305	16740	
16'	6 490	4 660	4 915	17 340	
18'	7 100	5 270	5 525	17 780	
20'	7 710	5 880	6 135	18 540	
21'	8 015	6 180	6 440	18740	



# DT1230-SC



<b>TB 150 BOOM</b> Parallel coverage Boom extension Feed extension With TF-feed Boom weight, net Rotation angle	159 m² 3 200 mm 1 650 mm 3 300 kg 358°	Filtration Pressure Return Oil tank volume Tank filling Oil cooling <b>AIR CIRCUIT</b>	1 x 20 micron 1 x 10 micron Max. 470 I, min. 270 I 1 x electric pump 1 x OW 30 water cooler
TPC 563 CONTROL S Power control Rotation control Automatic functions	<b>STEM</b> Adjustable full power Adjustable collaring power Adjustable rotation speed One hole drilling automatics	Compressor type Capacity Shank lubricating device Air consumption Oil consumption	1 x CT 10 1,0 m³/min, 7 bar 1 x SLU 3 250 – 350 l/min / rock drill 180 – 250 g/h / rock drill
	Collaring with – Rock detect feature –Two ramps to full power Feed controlled percussion Adaptive drilling Anti-jamming Flushing	WATER CIRCUIT Water pump type Capacity Inlet pressure Inlet pressure control valve	1 x WBP 3 HP 375 l/min (15 bar) With 5 bar inlet pressure 2 – 7 bar (while drilling) 1 x WP 100
Reaming	Stop and return Separately adjustable settings	Total input power Main switch	250 kW 1 x MSE 30
Boom controls	Fully proportional	Standard voltages Voltage fluctuation	380 – 690 VAC Max. ± 10 %
HP 575 POWERPACK Electric motor Pump types Percussion, feed and boom Rotation Basket boom (option)	1 x 75 kW 3-phase motor 1 x 148 l/min variable dis- placement axial piston pump 1 x 81 l/min variable dis- placement axial piston pump 1 x 45 l/min gear pump	Star Delta Starting (380 – 690 Lighting Combined working and driving lights (24 VDC) Working lights Driving lights Automatic cable reel	
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