

## APPLICATION

The Sandvik DT1130 is a 3-boom electro hydraulic jumbo for fast and accurate drilling in tunneling and cavern excavation of 20 – 183 m<sup>2</sup> cross sections.

The hydraulic controlled drilling system with added automatic functions and different optional instrumentation levels enable productive and high quality excavation.

The HLX5 rock drills deliver superior performance with high consumable life.

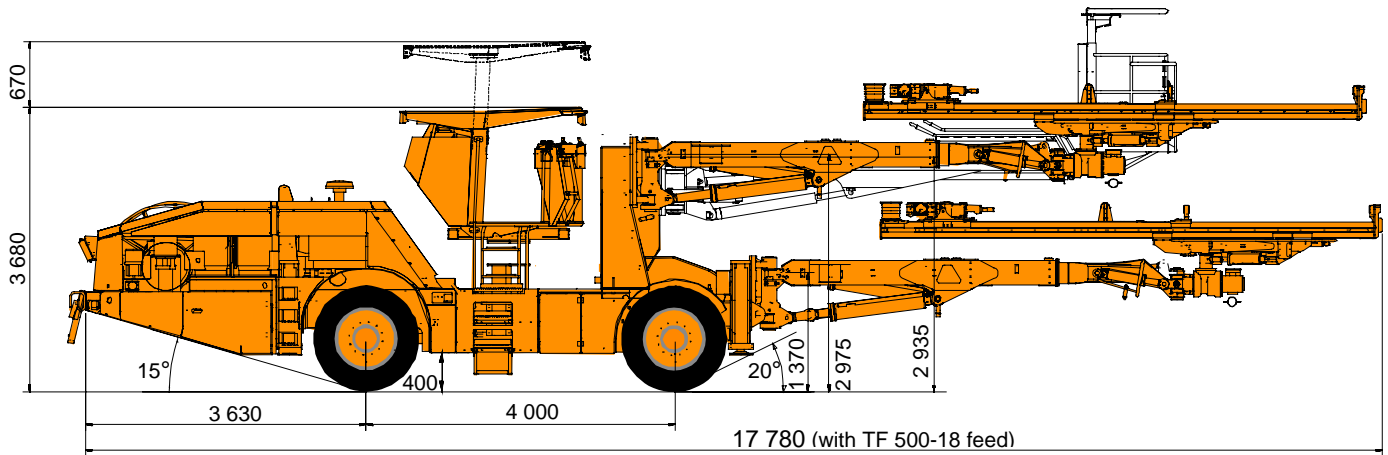
The TB 150 universal booms have a large optimum shaped coverage and full automatic parallelism. The booms can also be used for cross-cutting, bolt hole drilling and extension drilling applications. An optional basket boom for bolting and utility works is available.

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

## MAIN SPECIFICATIONS

Carrier	1 x TC 11
Safety canopy	1 x FOPS (ISO 3449)
Rock drill	3 x HLX5
Feed	3 x TF 500–18
Boom	3 x TB 150
Control system	3 x THC 560
Powerpack	3 x HP 560 (55,0 kW)
Air compressor	1 x CT 10
Shank lubricating device	1 x SLU 3
Water pump	1 x WBP 3
Main switch	1 x MSE 30
Cable reel	1 x TCR 6E
Length	17 780 mm
Width	2 900 mm
Height	
Canopy down	3 680 mm
Canopy up	4 350 mm
Weight	40 000 kg
Tramming speed	
Horizontal	12,0 km/h
14 % = 1:7 = 8°	3,5 km/h
Gradeability	28 % = 1:3,5 = 15°
Noise level (EN 791, free field condition)	
Operator's platform	LpA = 103 dB
Emitted	LwA = 128 dB

## GENERAL DIMENSIONS



### TC 11 CARRIER

Diesel engine	MB OM 904 LA 110 kW (148 hp)
Transmission	Clark 20 000 Hydrodynamic
Axles	Clark-Hurth
Brakes	
Service	Hydraulically operated wet disc brakes
Parking and emergency	SAHR type fail-safe Front: dry disc brakes Rear: wet disc brakes
Tyres	14.00 – 24 PR 28 Double wheels in front
Steering	Axle steering in engine end Orbitrol
Rear oscillation	± 8°
Ground clearance	400 mm
Fuel tank	150 l
Hydraulic jacks	
Front	2 x TJ 60 Telescopic
Rear	2 x TJ 75
Safety canopy	FOPS (ISO 3449)

### HLX5 ROCK DRILL

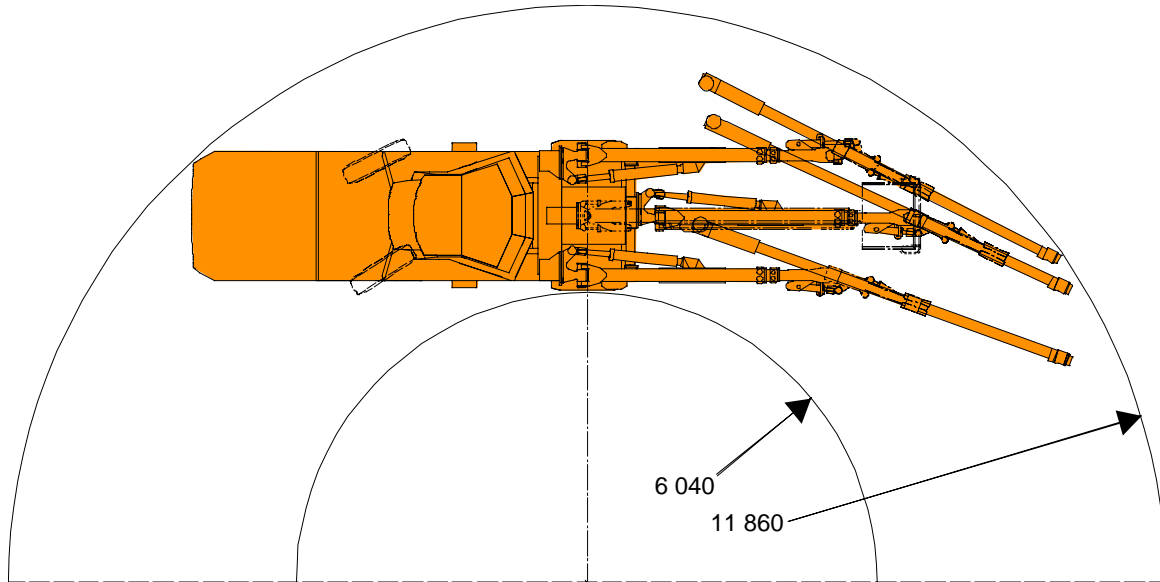
Weight	210 kg
Length	955 mm
Profile height	87 mm
Power class	20 kW
Max working pressure	
Percussion	225 bar
Rotation	175 bar
Max torque	
125 cm <sup>3</sup> motor	625 Nm
Hole size	43 – 64 mm
Recommended steel	T38-H35-R32 T38-H35-alpha 330 T38-R39-R35
Shank adapter	7304-7585-01 (T38)
Flushing water pressure	10 – 20 bar

### TF 500 FEED

Feed type	Cylinder – wire rope
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	16 740
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	18 740

## TURNING RADIUS



### TB 150 BOOM

Parallel coverage	159 m <sup>2</sup>
Boom extension	3 200 mm
Feed extension	
With TF-feed	1 650 mm
Boom weight, net	3 300 kg
Rotation angle	358°

### THC 560 CONTROL SYSTEM

Power control	Adjustable full power Adjustable collaring power
Rotation control	Adjustable rotation speed
Automatic functions	Collaring Feed controlled percussion Anti-jamming Flushing Stop and return
Boom controls	Fully proportional

### HP 560 POWERPACK

Electric motor	1 x 55 kW 3-phase motor
Pump types	
Percussion, feed and boom	1 x 135 l/min variable displacement axial piston pump
Rotation	1 x 64 l/min variable displacement axial piston pump
Basket boom (option)	1 x 45 l/min gear pump
Filtration	
Pressure	1 x 20 micron
Return	1 x 10 micron

Oil tank volume	Max. 470 l, min. 270 l
Tank filling	1 x electric pump
Oil cooling	1 x OW 30 water cooler

### AIR CIRCUIT

Compressor type	1 x CT 10
Capacity	1,0 m <sup>3</sup> /min, 7 bar
Shank lubricating device	1 x SLU 3
Air consumption	250 – 350 l/min / rock drill
Oil consumption	180 – 250 g/h / rock drill

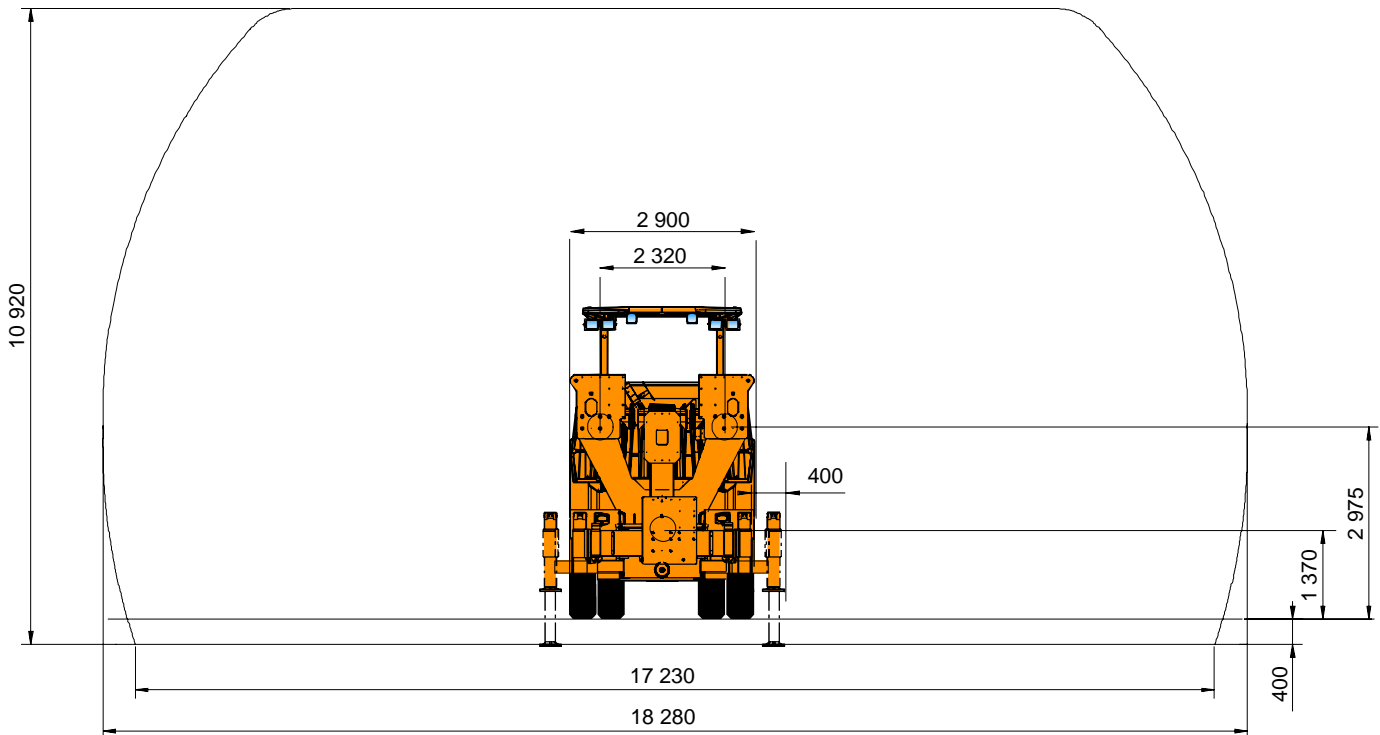
### WATER CIRCUIT

Water pump type	1 x WBP 3
Capacity	215 l/min (15 bar) With 5 bar inlet pressure
Inlet pressure	2 – 7 bar (while drilling)
Inlet pressure control valve	1 x WP 100

### ELECTRICAL SYSTEM

Total input power	250 kW
Main switch	1 x MSE 30
Standard voltages	380 – 690 VAC
Voltage fluctuation	Max. ± 10 %
Star Delta Starting (380 – 690 VAC only)	
Lighting	
Combined working and driving lights (24 VDC)	12 x 35 W (HID) front
Working lights	2 x 35 W (HID) rear
Driving lights	2 x 35 W (HID) rear
Automatic cable reel	1 x TCR 6E

## COVERAGE AREA



## OPTIONAL EQUIPMENT

### DRILLING SYSTEM

- \*) 3 x HLX5T rock drills
- \*) Feed length 14', 16', 20' or 21'
- \*) Telescopic feed TFX 500 series
- Rod retainer TRR1 for one feed
- TRS two-rod system for one boom (includes TRR1)
- Drill angle measuring instrument TMS D3
- Drill angle and depth measuring instrument TMS DDSS3
- Drill position and angle measuring instrument TCAD-DS
- Data logging unit TLOG for TCAD
- \*) Double flushing with CT 28 compressor (18,5 kW)
- Air mist flushing kit for auxiliary water/air connection
- Flushing flow control

### ELECTRICAL SYSTEM

- Electric cable rubber or PUR
- Ground fault and overcurrent unit VYK
- \*) 1 000 VAC electric system
- Spotlight 70 W (24 VDC) for basket boom TBB 5

### CARRIER

- \*) Carrier TC 12 (170 kW) with transmission Clark 32000
- Exhaust scrubber
- Exhaust catalyzer
- Complete spare wheel
- Elevating operator's platform (1000 mm)

### OTHER OPTIONAL EQUIPMENT

- Fire extinguisher (bottle only)
- Manual fire suppression system ANSUL, 8 nozzles
- Pressure cleaning system (15 bar) with reel
- High pressure cleaning system with reel and handset
- Automatic water hose reel THR 5E
- Water hose 2" (60 m)
- Greasing reel with pump and nozzle
- Automatic greasing system (Lincoln)
- Biodegradable oils
- Basket boom TBB 5 (Note: Change in weight)
- FOPS safety canopy for basket boom TBB 5
- \*) EU, UL, CSA, AUS norms package

\*) = Replaces standard component

Sandvik Mining and Construction reserves the right to change this specification without further notice.