

DT1132i TUNNELING DRILL



INCREASED PRODUCTIVITY

Sandvik DT1132i is a fully automated i-series tunneling jumbo equipped with three electrohydraulic booms for fast and accurate drilling in tunneling and cavern excavations.

This tunneling drill rig has automatic drilling functions and boom positioning. Thanks to the automated drilling of pre-planned drilling patterns combined with an extensive data collection and reporting system, DT1132i enables continuous control of productivity, quality and efficiency.



MAIN BENEFITS

VERSATILE AND HIGHLY PRODUCTIVE

Equipped with RD535 rock drill, Sandvik DT1132i has more rock drill power to reduce the drilling time and increase advance meters per cycle, saving time and money.

In addition to face drilling, this unit can also be utilized in other applications such as: long-hole drilling, cross-cutting and bolt hole drilling.

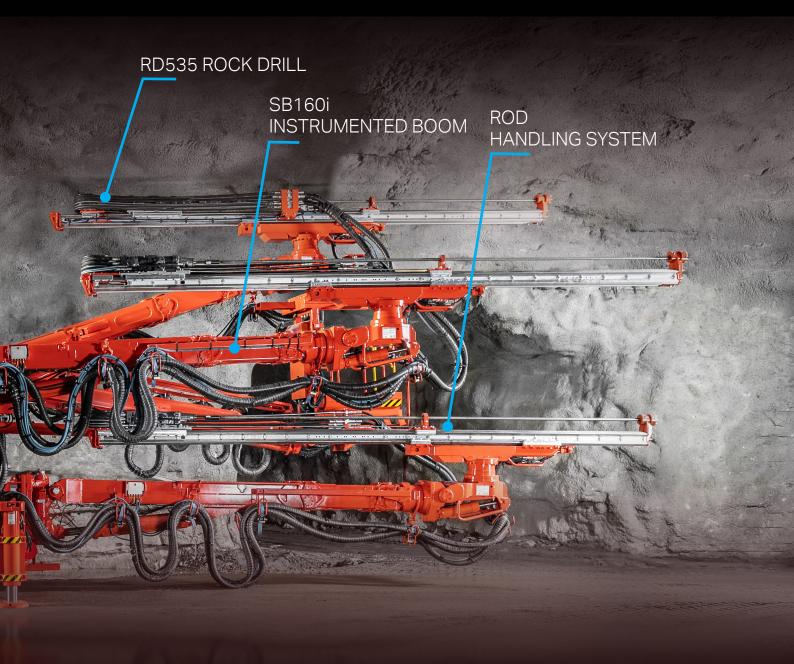
Up to 20%* higher penetration rate PR

IMPROVED PRODUCTIVITY

IMPROVED ERGONOMICS & SAFETY Up to 40%* better filtration in exhaust particles

Up to 25%* bigger side coverage

MAXIMIZED UTILIZATION





SB160i INSTRUMENTED BOOM

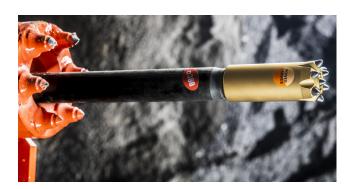
The 3 meter telescopic SB160i boom with double roll-over for mechanized tunneling, drifting, crosscutting and bolt hole drilling uses a fully proportional boom control for accurate and fast manual boom handling.

Computer aided boom movements make the use of the boom simple and logical.



ERGONOMIC CABIN

The ergonomic vibration-dampened cabin provides an open, spacious operator environment with excellent all-round visibility, low noise level and a filtration system to minimize dust inside. Doorways have been located in the rear to minimize any disturbance for the operator, whilst safety has been maximized with a FOPS-compliant cabin.



SUPERIOR DRILLING ACCURACY

The Alpha360 bits and GT38 rods are optimized for RD535 high power rock drill. The optimized rod diameter together with coupling guide and the bit gives superior drilling accuracy in face drilling.



SANDVIK 365 PARTS & SERVICES

PROLIDLY KEEPING YOU ON TRACK!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DT1132i drill's performance. As an OEM, we provide the best-suited choices to preserve your machine's high performance throughout its lifetime. These consist of highly skilled service specialists supporting you 365 days a year, all using Sandvik Genuine parts and components complemented by a range of robust tools. In addition, you get to enjoy the benefits of advanced digital services and a global infrastructure dedicated to keeping your Sandvik fleet on track.

HYDRAULIC ROCK DRILL

Type of rock drill	RD535 (TS2-427)
Percussion power	31 kW
Percussion pressure	Max. 225 bar
Percussion rate	107 Hz
Stabilizer	Hydraulic (two stage)
Rotation speed	Max. 280 rpm (with OMS125)
Rotation torque	625 Nm (with OMS125)
Hole size (face drilling)	45 - 64 mm
Hole size (cut hole)	76 - 127 mm
Recommended rod	T38-R42-Alpha360 T38-R39-Alpha360
Shank adapter	T38 (male)
Weight	232 kg
Length	1 010 mm
Profile height	90 mm

FEED

Type of feed	Feed force (Max.)	Total length	Hole length	Rod length	Net weight (kg)
TF535i-12' (opt)	30 kN	5 330	3 440	3 700	500
TF535i-14' (opt)	30 kN	5 940	4 050	4 305	530
TF535i-16' (opt)	30 kN	6 550	4 660	4 915	560
TF535i-18' (std)	30 kN	7 160	5 270	5 525	590
TF535i-20' (opt)	30 kN	7 770	5 880	6 135	620
TF535i-21' (opt)	30 kN	8 075	6 180	6 440	640

воом

SB160i (TS2-418)
166 m²
Electric
3 000 mm
1 850 mm
3 500 kg
358°

UTILITY BOOM (OPTIONAL)

Type of utility boom	SUB5i A/B (TS2-311)
Boom extension	2 x 3 000 mm
Boom weight,net	2 635 / 2 895 kg
Basket swing	± 45° in B - model
Max. allowed load	510 kg
Max. allowed load with safety canopy	400 kg

HYDRAULIC SYSTEM

Powerpack	HPP575 (3 x 75 kW)
Percussion and feed pump	180 cc (variable)
Rotation pump	71 cc (variable)
Utility boom	26 cc (gear)
Filtration size (pressure / return)	20 μ / 10 μ
Oil tank volume	480 liters
Filling pump for hydraulic oil	Electric
Cooler for hydraulic oil	1 x OW200P oil-to-water cooler

CONTROL SYSTEM

Type of control system	SICA platform
Higher level in automation	Upgradable
Diagnostic system	Comprehensive
Variety of drilling controls	Advanced torque control system, feed / percussion, manual control
Boom control	Fully proportional
Touch screen display	15" full color
Control system software	Support and maintenance package include during 12 months (TS15-019)
OptiMine®	With configuration readiness
Cable kit	Spare parts programming
Total station navigation set	Excl. total station

ELECTRIC SYSTEM

Standard voltage	Multivoltage 400 V only with RD525 rock drill 575 V - 1 000 V with RD535 or RD525
Total input power	270 / 325 kW (RD525 / RD535)
Main switch	MSE30
IP classification	Specification TS2-132
Starting method	DOL (direct on line)
Automatic cable reel	TCR5 CD
Cable reel control (in / out)	Operator station
Electric current reducer unit	3 pcs
Front lights (combined working and driving)	12 x 50 W LED (12 x 4 200 lm)
Rear lights (combined working and driving)	4 x 50 W LED (4 x 4 200 lm)
Rear brake / park lights	2 x Red LED
Stair and service lights	1 x LED (24V)
Amber flashing light	1 x Beacon (24V)

AIR AND WATER SYSTEM

/ III	
Flushing type	Flushing low control / monitoring
Water booster pump type	WBP4 HP
Water pump capacity	400 l/min
Water pump inlet pressure	2 - 7 bar (Min.)
Flushing water pressure	25 - 30 bar
Shank lubrication device	Air / oil mist, SLU-3
Air compressor	CT28 (2.8 m³/min at 7 bar)
Oil consumption	180 - 250 g/h
Air consumption	250 - 350 l/min

TRAMMING AND OPERATOR STATION

Safety cabin	FOPS (ISO 3449)
Cabin height in tramming / inside height	3 790 / 2 000 mm
Cabin elevation	1 000 mm
Sound pressure level according to EN 16228	Operator station: 75 dB(A) Emitted: 126 dB(A)
Seat	Fully adjustable seat
Floor	Water-washable
Air conditioning / heating	During tramming and drilling
Cabin audio system	CD / MP3 player with radio
Electricity outlets	1 x 12 V and 2 x 240 V (16A)
Boot washer	At cabin each entrance

CARRIER

C1000 ± 8° 400 mm QSB6.7, 164 kW, Tier 3, Stage III Hydrodynamic, Spicer T14
400 mm QSB6.7, 164 kW, Tier 3, Stage III
QSB6.7, 164 kW, Tier 3, Stage III
Hydrodynamic, Spicer T14
Dana Spicer 43R (front) / 213 (rear)
14.00-24 28RL (4 x front, 2 x rear)
Hydraulically operated wet disc brakes
SAHR type, fail safe wet disc brakes
150 liters
15 km/h (Horizontal) 3.5 km/h (14%=1:7=8°)
Max. 11° / 5°
TJ60 (front), TJ75 (rear)
Standard
1 x 7.7 or 9 kg (type ABC)
Standard
2 Sets
Cables and connectors for spare parts maintenance measurements
Connectivity solution (TS2-535)
Sandvik standard
1 x Operator's manual 1 x Maintenance manual 1 x Technical manual (in English only) 1 x Parts manual (in English only) 2 x Toolman USB key

OPTIONAL ITEMS

Rock drill *Type of rock drill Power extractor	RD525, 75 kW HPP For RD535 or RD525
Feed	
*Feed length	12', 14', 16', 20', 21'
*Telescopic feed	TFX12/18
Rod retainer	SCR with TF feed (incl. safety wire)
Rod handling system	SRH (incl. SCR + PE for 8' or 10'
0 7	extension rods, 8 + 1 extension rods)
AT pipe umbrella system	AT-114 or AT-139 (TS2-536)
Utility boom	

Utility	boom
0-6-4	

Fixed or sliding, FOPS approved Safety canopy

Spot lights 2 x 17 W LED

Remote control for spot lights 2 pcs

Rod racks For 4 pcs of 10 or 12 ft rods RX expansion bolt kit D30 mm or D41 mm

Hydraulic system

*Filling pump for hydraulic oil Manual

*Cooler for hydraulic oil OA40 oil-to-air (3 x 40 kW) Biodegradable oils Sandvik hydraulic oils Vacuum pump For hydraulic oil By pass hydraulic oil filter

Control system

Access detector or protector Specification TS2-211 User interface 2nd operator (standing) 3D scanning system Requires iSURE IV (TS2-388) GeoSURE Requires iSURE IV (TS2-280) Systematic Bolting **iBOLT** WLAN including remote GUI view Data transfer

Cleaning system

Low pressure system with reel Up to 15 bar (TS2-343) High pressure system with reelUp to 180 bar (TS2-343)

OPTIONAL ITEMS				
Greasing systems Manual system Automatic system	Greasing unit with pump, reel and nozzle (TS2-463) For carrier, boom, rod handler and			
	utility boom (Lincoln)			
Electric system *Electric cables Spooling device for cable reel Ground fault and overcurrent unit Electricity outlet in front carrier Dewatering pump outlet	Specification TS2-121 For voltages 690 - 1 000 V VYK 2 x 110 V (15 A) or 2 x 230 V (16A) 8 kW, 400 V, 50 Hz (incl. transformer) 8 kW, voltage 380 - 690 V (50 Hz)			
Indicator light Remote control for reel(s) Working lights on boom support	For jacks up and down At rear machine 2 x 170 W LED (2 x13 500 lm)			
Air and water system Air mist flushing kit External air supply End of hole flushing Water hose reel Water hose with hooks Water loss measurement system	Ext. air / water supply (incl. IP5) IP5 air cleaner with connection 2 x 80 liters receiver with IP5 THR5E + hose Ø45 mm (1 ¾"), 60 m 45 mm (1 ¾"), 60 m			
Operator's safety cabin Reduced tramming speed	3rd gear lockout			
Fire suppression system Manual or automatic system Automatic system	Ansul (TS2-460) Sandvik Eclipse™ (TS2-461)			
Carrier *Diesel engine Exhaust catalyzer Rod rack on carrier side Power supply for MiniSSE Tramming cameras Wheel chocks and holders	B6.7, 168 kW, Tier 4F, Stage V For Tier 3 engines 12 to 21 ft rods Rear and side 2 pieces			
Extra items Spare rock drill Spare wheel assembly Special tools for rock drill Tunnel laser set Documentation iSURE®	RD535 or RD525 14.00-24 28RL Field tool set, complete tool set Extra manuals iSURE II Plus annual license (Advanced drill and blast design including round reports) iSURE III Premium annual license (MWD including pull out analyses)			

*) Replaces standard feature

Package: Automation package

Package: Anti-freezing

AUTOMATION PACKAGE: GOLD (STANDARD)

Package: Country specific options EUR package

Boom electric parallelism
Drill plan visualisation on-board
Display of drill bit location vs. given drill plan
iSURE I Basic (Drill plan design)**
Drill rig suitable with various navigation methods
Advanced MWD data collection (iSure option)
DrillConnect mobile application : Connectivity through Knowledge box™ for easy data transfer to and from the rig
**) Licence for one year included

iSURE IV Pro annual license (Tunnel development KPI's)

Block heater for engine, heater for

hydraulic oil, water circuit flushing with air, antifreeze adding in water

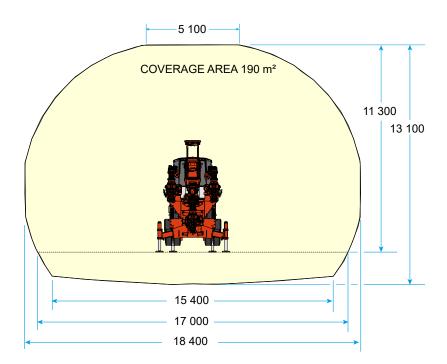
Platinum level

circuit.

AUTOMATION PACKAGE: PLATINUM (OPTION)

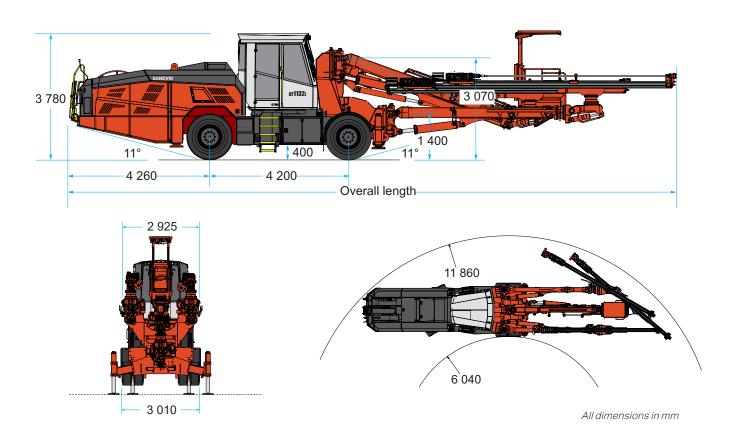
Automation Gold package content
Semi-automatic face drilling
Full automatic face drilling

The dimensions are indicative only - All dimensions in mm



	Width (W)	
Front frame with 4 x wheels	3 010 mm	
	Height (H)	
Cabin with lifting system	Min. 3 780 mm Max. 4 780 mm	
	Weight	
Total weight	50 000 - 56 000 kg depending on options	

	TF535i-14'	TF535i-16'	TF535i-18'	TF535i-20'	TF535i-21'
Feed length	5 940 mm	6 550 mm	7 160 mm	7 770 mm	8 075 mm
Overall length	18 560 mm	19 160 mm	19 600 mm	20 360 mm	20 560 mm





and controlled conditions. These test results and calculations should not be treated as specifications and Sandvik does not guarantee, warrant or represent the outcome of test results or calculations in any or all circumstances. TS2-352:10ENG ©Sandvik Mining and Rock Solutions 2023 SANDVIK is a trademarks owned by the Sandvik group of companies. Strömberg, 2023 Test results and calculations are to be considered as results reached under certain