

DT1232i Tunneling drill

Technical Specification





Increased productivity

Key features

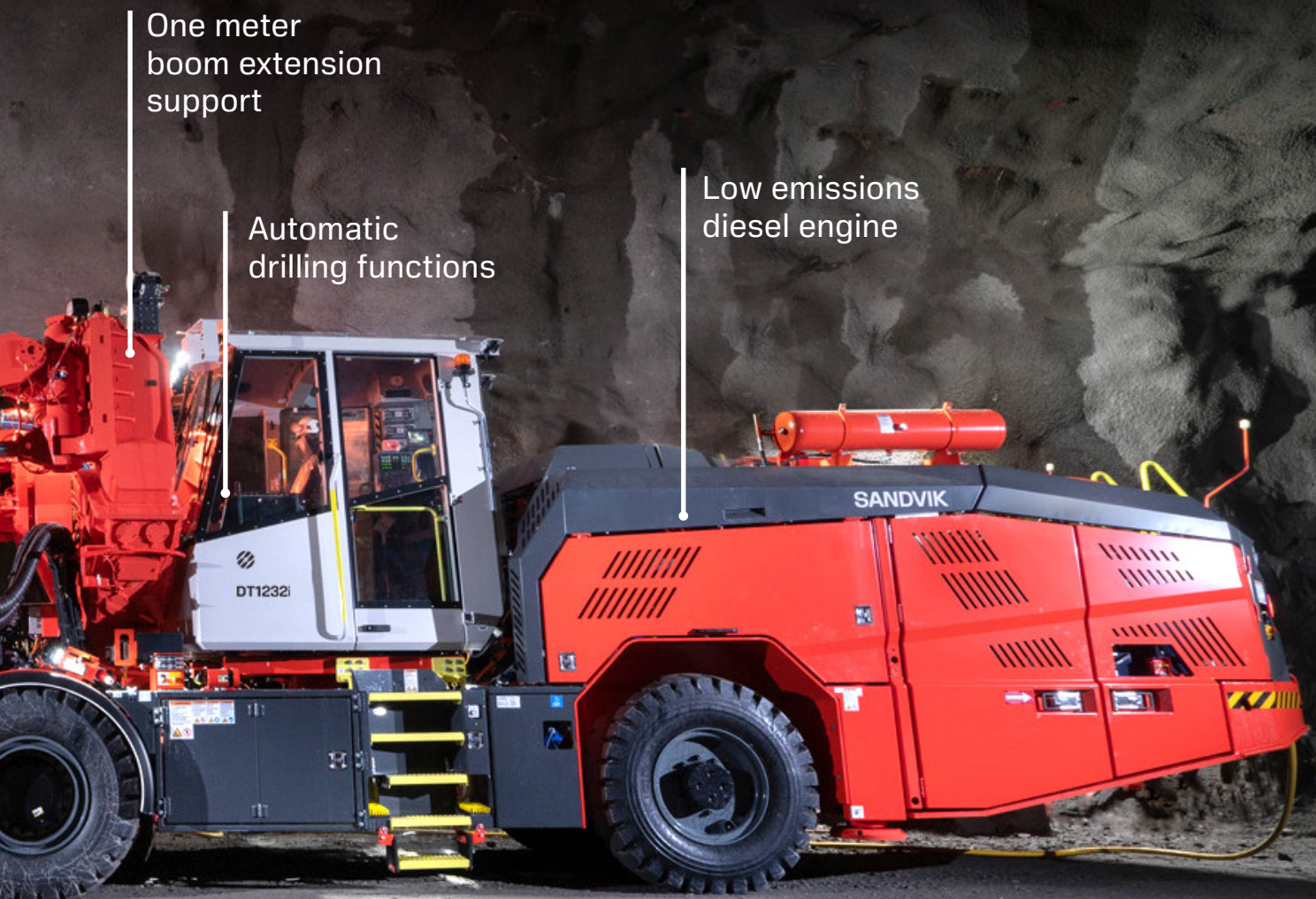
Coverage	217 m ² (H13.1 x W19.3 m)
Drift size class (H x W)	12 000 mm x 12 000 mm
Hydraulic rock drill	RD535i (35 kW)
Drill feed	TF535i, 12 - 21 ft
Boom	SB160i
Boom elevating support	1 000 mm
Utility boom (optional)	1 x SUB5i A/B
Hole length	3.44 - 6.18 m
Hole diameter (drifting)	43 - 64 mm
Automation package	Gold (std), Platinum (opt)
Turning radius	11 860 mm
Transport width	3 010 mm
Transport height	3 780 mm
Transport length	18 560 mm (TF5i-14')
Total weight (with basket boom)	51 000 - 57 000 kg depending on options

Sandvik DT1232i is a fully automated i-series tunneling jumbo equipped with three electro-hydraulic booms for fast and accurate drilling in tunneling and cavern excavations. Thanks to its one meter boom extension, this jumbo offers superior coverage.

This rig has automatic drilling functions and boom positioning including an optional fully automated drilling cycle, Sandvik DT1232i is equipped the high frequency RD535 rock drill and tools designed for high speed drilling.

iSURE® software utilizes the rig's data collection to improve the work cycle and the drill and blast excavation process.

The optional toolset GeoSURE, for geological analysis and mapping, as well as the onboard 3D-scanner provide valuable feedback to produce rock mass interpretation, assess reinforcement/injection needs and indicate over- and underbreak.

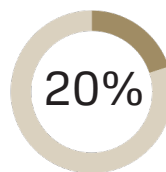


Main benefits

Versatile and highly productive

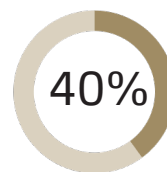
Equipped with RD535 rock drill, Sandvik DT1232i has more rock drill power to reduce the drilling time and increase advance meters per cycle, saving time and money.

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.



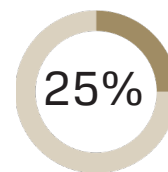
Improved productivity

Up to 20%* higher penetration rate



Improved ergonomics & safety

Up to 40%* better filtration in exhaust particles



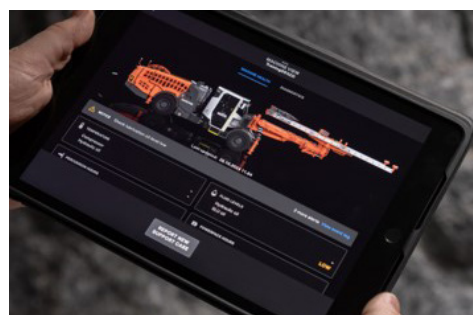
Maximized utilization

Up to 25%* bigger side coverage



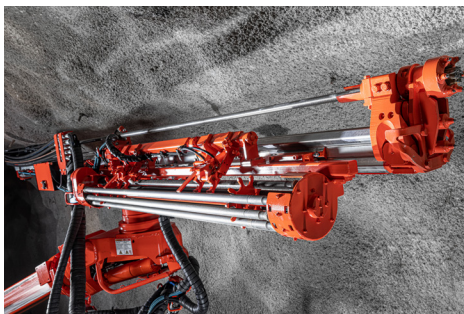
SB160i instrumented boom

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



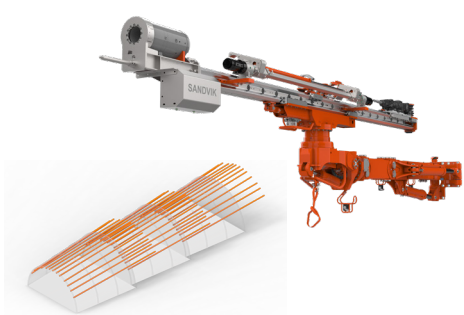
Sandvik DrillConnect

Readiness for Sandvik DrillConnect mobile application for improved data management and enhanced maintenance, and My Sandvik digital services.



Rod handling system

Typical applications are drilling of injection and probe hole fans heading from tunnel face forward. SRH provides safe, ergonomic and automated way of extension rod handling.



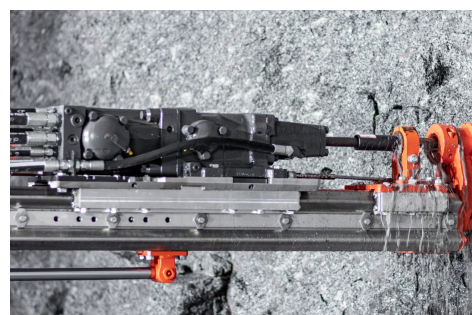
AT - Pipe umbrella optional kit

In case of weak ground conditions, Sandvik DT1232i can be equipped with the AT - Pipe Umbrella to install pipes, prior to excavation to create an umbrella/canopy ensuring reliable support and increased stability.



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.



RD535 rock drill

RD535 has efficient, powerful patented percussion mechanism, efficient and patented stabilizer structure. High performance, high frequency with increased reliability and long service interval gives more production.



Sandvik 365 Parts and Services

Proudly keeping you on track!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DT1232i 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.

Technical Specification

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 (bolting)	43 – 64 mm
Hole size (reaming)	76 – 127 mm
Recommended tools 43 - 45 mm: 48 - 51 mm:	T38 – H35 – Alpha 340 T38 – H35 – Alpha 360 T38 – R39 – Alpha 360 T38 – R42 – Alpha 360
Shank adapter	T38 (male)
Weight	230 kg

Drilling feed

Type of feed	Feed force (Max.)	Total length	Hole length	Rod length	Net weight (kg)
TF535i-12' (opt)	30 kN	5 330 mm	3 440 mm	3 700 mm	500 kg
TF535i-14' (opt)	30 kN	5 940 mm	4 050 mm	4 305 mm	530 kg
TF535i-16' (opt)	30 kN	6 550 mm	4 660 mm	4 915 mm	560 kg
TF535i-18' (std)	30 kN	7 160 mm	5 270 mm	5 525 mm	590 kg
TF535i-20' (opt)	30 kN	7 770 mm	5 880 mm	6 135 mm	620 kg
TF535i-21' (opt)	30 kN	8 075 mm	6 185 mm	6 440 mm	640 kg

Boom

Type of boom	SB160i (TS2-418)
Parallel coverage	166 m ²
Parallelism	Electric
Boom extension	3 000 mm
Feed extension	1 850 mm
Roll-over angle	358°
Boom elevating support	1 000 mm
Boom weight, net	3 500 kg

Utility boom (optional)

Type of utility boom	SUB5i A/B (TS2-311)
Boom extension	2 x 3 000 mm
Boom weight, net	2 635 / 2895 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)
HVAC (Heating, Ventilation and air conditioning) pump	26 cc (gear)
Filtration size (pressure / return)	20 µ / 10 µ
Oil tank volume	480 liters
Oil tank filling pump	Electric
Cooler for hydraulic oil	1 x OW200P oil-to-water cooler

Drilling control system

Type of control system	SICA platform
Higher level in automation	Gold (std), Platinum (opt)
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® Mining Data Platform	With configuration readiness
Cable kit	Spare parts programming
Total station navigation set	Excl. total station

Automation package, Gold level (Standard)

Boom electric parallelism
Drill plan visualisation on-board
Display of drill bit location vs. given drill plan
iSURE® software (incl. license for one year)
Drill rig suitable with various navigation methods
Advanced MWD data collection with reporting and analyses tool
DrillConnect mobile application : Connectivity through Knowledge box™ for easy data transfer to and from the rig

Electric system

Standard voltage	380 - 1 000 V (±10%), RD525 575 - 1 000 V (±10%), RD535
Total installed power	270 / 325 kW (RD525 / RD535)
Main switch gear	MSE30
IP classification	Specification TS2-132
Starting method	DOL (direct on line)
Automatic cable reel	TCR5CD
Cable reel control (in / out)	Remote contro at rear machine
Electric current reducer unit	3 pcs
Outlets on carrier	2 x 110V (15A, single phase, 1.6kW)
Front lights (combined working and driving)	12 x 50 W LED (24V), 4 200 lm
Rear lights (combined working and driving)	4 x 50 W LED (24V), 4 200 lm
Rear brake / park lights	2 x Red LED
Stair and service lights	1 x LED (24V)
Amber flashing light	1 x LED (24V)

Air and water flushing

Type of water pump	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	CTN28 (2.8 m ³ /min at 7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 l/min

Technical Specification

Operator's safety cabin

Safety cabin	FOPS (ISO 3449)
Cabin height (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	MP3 player with radio with loudspeakers
Electricity outlets	1 x 12/24 V and 2 x 230 V (16A)
Boot washer	At cabin each entrance

Carrier

Type of carrier	C1000
Rear oscillation	± 8°
Ground clearance	400 mm
Diesel engine	B6.7, 168 kW, Tier 4F, Stage V
Transmission	Hydrodynamic, Spicer T14
Axles	Dana Spicer 43R (front) / 213 (rear)
Tires	14.00-24 28RL (4 x front, 2 x rear)
Service brakes	Hydraulically operated wet disc brakes
Parking / emergency brakes	SAHR type, fail safe wet disc brakes
Tramming speed	15 km/h (Horizontal) 3.5 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 11° / 5°
Fuel tank	150 liters
Carrier stabilization with 400 mm ground plates	2 x TJ60 (front) 2 x TJ75 (rear)
Hand throttle	Standard
Wheel chocks and holders	2 Sets
Centralized greasing points	Specification TS2-463
Hand held fire extinguisher	1 x 7.7 kg (type ABC)
Tramming alarm	Standard
Measurement adapter kit	Cables and connectors for spare parts maintenance measurements
Knowledge Box™	Connectivity solution (TS2-535)
Colour scheme	Sandvik
Documentation	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 features and packages

Rock drill	
*Type of rock drill	RD525, 75 kW HPP
Power extractor	For RD535 or RD525
Drilling 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' extension rods, 8 + 1 extension rods)
AT pipe umbrella system	AT-114 or AT-139 (TS2-536)
Utility boom	
Safety canopy	Fixed or sliding, FOPS approved
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	

Optional features and packages

Drilling control system	
Access detector or protector	Specification TS2-211
User interface	2nd operator (standing)
3D scanning system	Specification TS2-388
GeoSURE	Specification TS2-280
iBOLT	Systematic Bolting
Data transfer	WLAN including remote GUI view
Electric system	
*Multivoltage pro	380 - 1 000 V, 50 or 60 Hz, RD525 575 - 1 000 V, 50 or 60 Hz, RD535
*Electric cables	Specification TS2-121
Spooling device for cable reel	For voltages 690 - 1 000 V
Ground fault and overcurrent unit	VYK
Electric outlet carrier	2 x 110 V (15 A) or 2 x 230 V (16A)
Dewatering pump outlet	8 kW, 400 V, 50 Hz (incl. transformer) 8 kW, voltage 380 - 690 V (50 Hz)
Indicator light	For jacks up and down
Working lights on boom support	2 x 170 W LED, 13 500 lm
Air and water system	
Air mist flushing kit	Ext. air / water supply (incl. IP5)
External air supply	IP5 air cleaner with connection
End of hole flushing	2 x 80 liters receiver with IP5
Water hose reel	THR5E + hose Ø45 mm (1 ¾"), 60 m
Water hose with hooks	45 mm (1 ¾"), 60 m
Water loss measurement system	
Cleaning system	
Low pressure system with reel	Up to 15 bar (TS2-343)
High pressure system with ree	Up to 180 bar (TS2-343)
Greasing systems	
Manual system	Greasing unit with pump, reel and nozzle (TS2-463)
Automatic system	For carrier, boom,rod handler and utility boom (Lincoln)
Operator's safety cabin	
Reduced tramming speed	3rd gear lockout
Fire suppression system	
Manual or automatic system	Ansul (TS2-460)
Automatic system	Sandvik Eclipse™ (TS2-461)
Carrier	
*Diesel engine	B6.7, 168 kW, China IV
Rod rack on carrier side	12 to 21 ft rods
Power supply for MiniSSE	
Tramming cameras	Rear and side
Extra items	
Spare rock drill	RD535 or RD525
Spare wheel assembly	14.00-24 28RL
Special tools for rock drill	Field tool set, complete tool set
Tunnel laser set	
Documentation	Extra manuals
Warranty extension	One year / 1000 ph
Package: Country specific options	EUR package
Package: Automation package	Platinum level
Package: Anti-freezing	Block heater for engine, heater for hydraulic oil, water circuit flushing with air, antifreeze adding in water circuit.

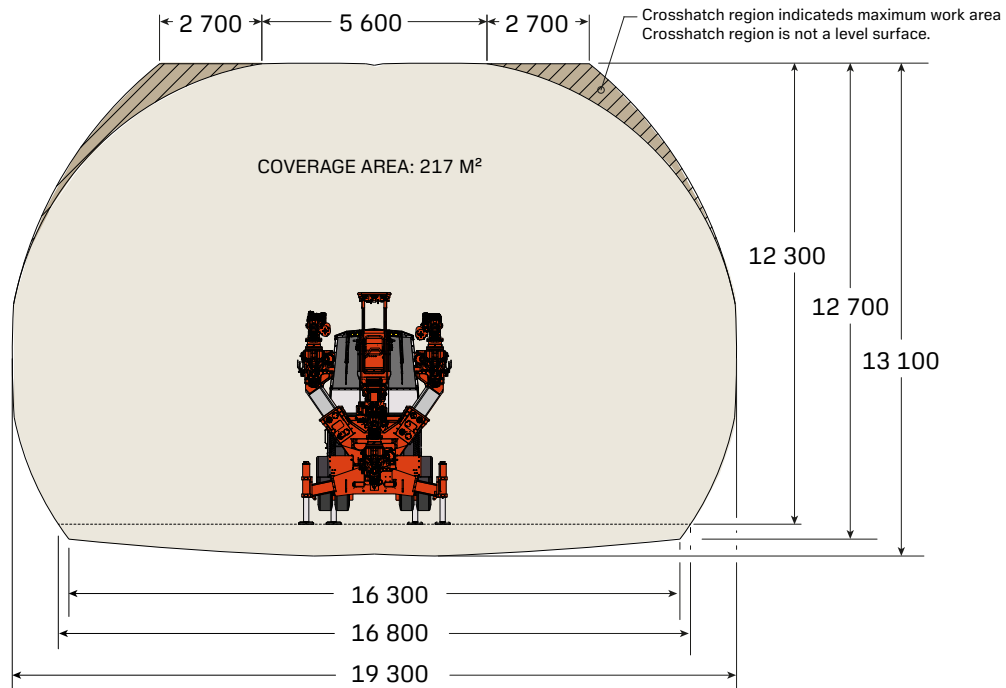
*) *Replaces standard feature*

Automation package, Platinum level (Option)

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

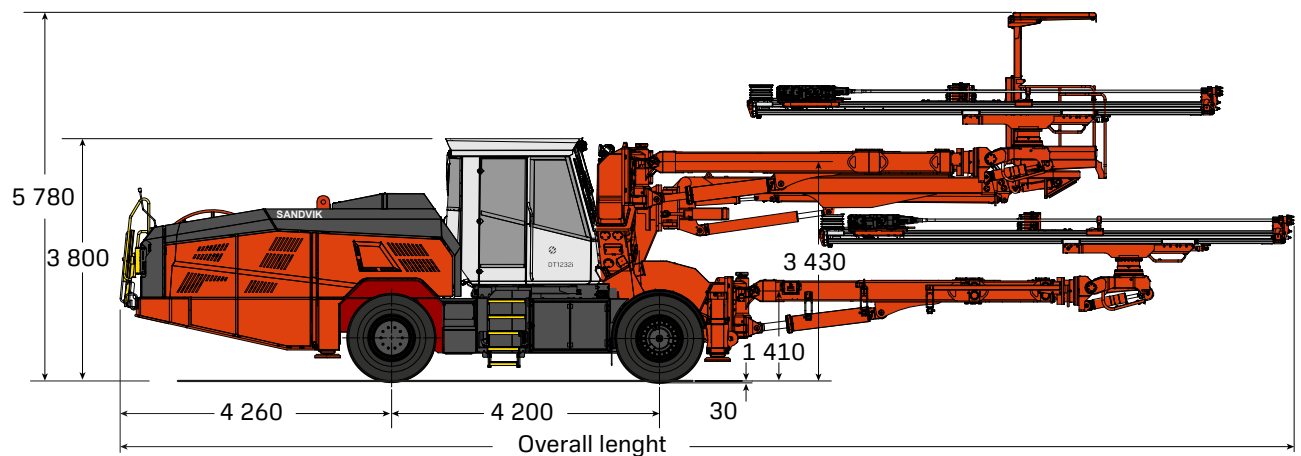
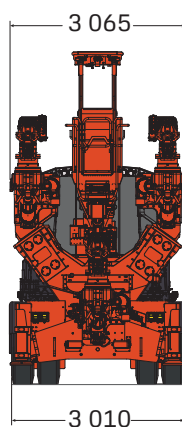
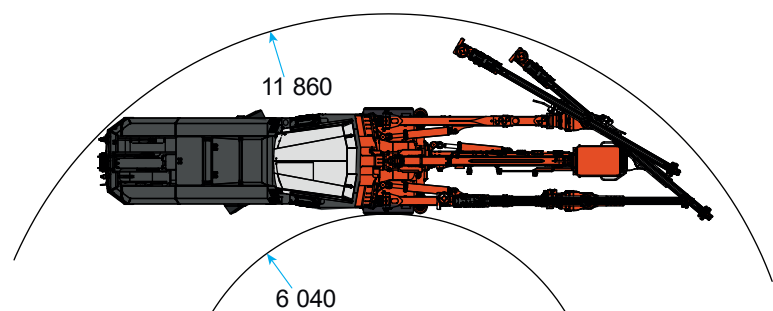
Technical drawings

All dimensions in mm



Overall length	TF5i-12'	TF5i-14'	TF5i-16'	TF5i-18'	TF5i-20'	TF5i-21'
Feed length	5 330 mm	5 940 mm	6 550 mm	7 160 mm	7 770 mm	8 075 mm
Overall length	17 950 mm	18 560 mm	19 160 mm	19 600 mm	20 360 mm	20 560 mm

	Height (H)
Cabin with lifting system	Min. 3 780 mm Max. 4 780 mm



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