

DS211L-M Low-profile drill

Technical Specification





Same carrier
through the range

FOPS / ROPS
Telescopic canopy

Mechanized bolter in low-profile drifts

Key features

Coverage	6 900 x 2 955 mm
Hydraulic rock drill	1 x RD106, 6.5 kW
Drilling feed	1 x TULPM
Boom	1 x B26XL LPMB
Hole length	Up to 2130 mm
T-section width in turning	3 800 mm
Transport width	2 260 mm
Transport height	1 380 mm / 1 950 mm
Transport length	11 360 mm
Total weight	14 500 kg depending on options

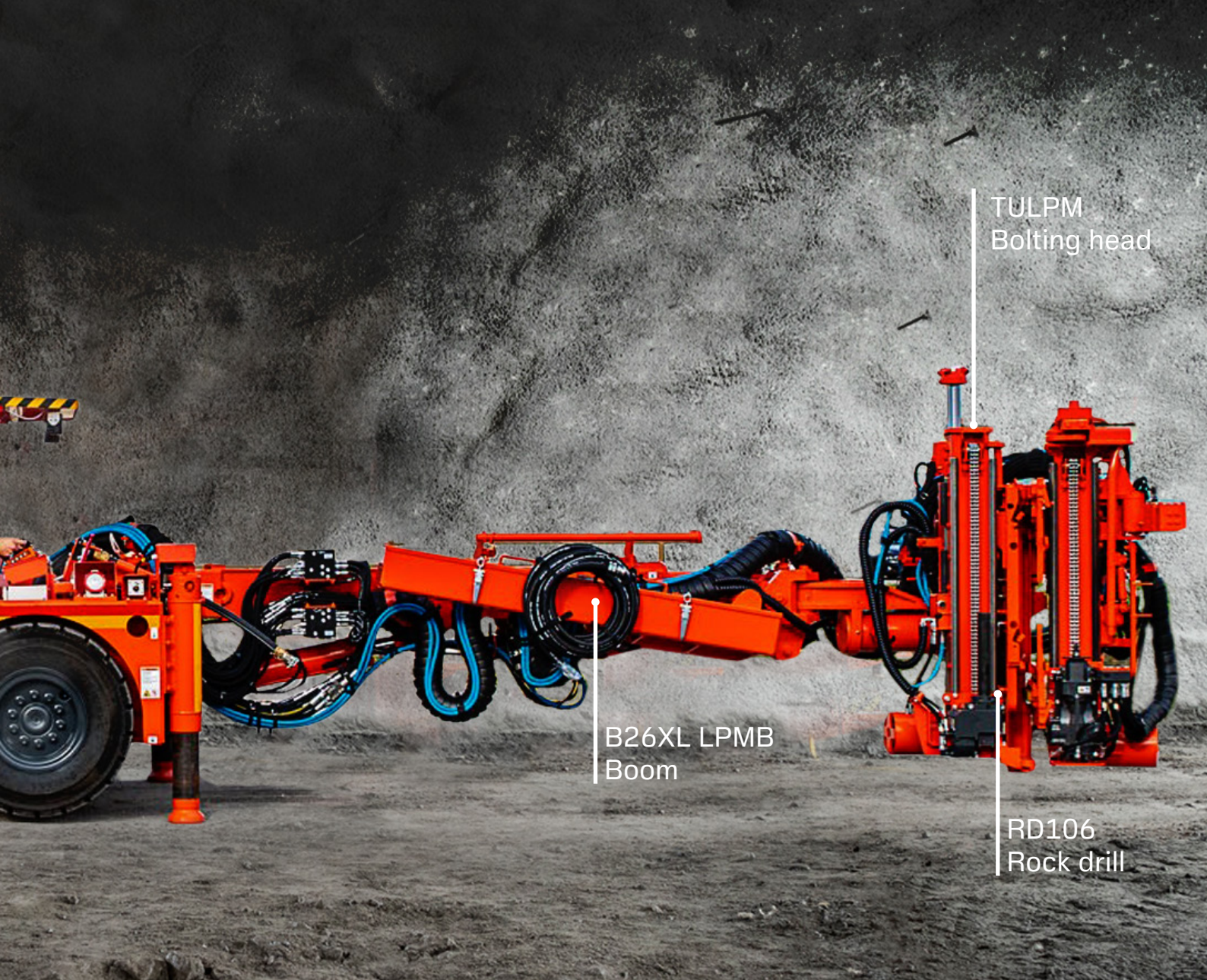
Sandvik DS211L-M is a fully mechanized one man operated electro-hydraulic low profile bolting machine for rock reinforcement in excavations with headroom as low as 1.6 meters.

The robust rectangular profile telescopic boom allows the installation of several rows of bolts without moving the machine by a single operator working under the FOPS / ROPS protective canopy. The exceptional «V» shape layout is designed for good visibility and balance, this and the powerful four-wheel-drive articulated carrier ensure fast and safe manoeuvring even in low headroom conditions.

The high performance drilling system allows high drilling performance with good drill steel economy and high machine reliability. The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling and bolts installation.

All functions are piloted by a radio remote control, with SICA platform for fault finding.

All the service points are well protected but easy to access.



TULPM
Bolting head

B26XL LPMB
Boom

RD106
Rock drill

Main benefits

Less dilution

The Low-profile range offers a productive and low-cost solution in low seam. From drift 1.7m height with reduced dilution, up to large drill coverage up to 8 m lateral width drilling and bolting. The low-profile range could be suitable for your all needs.

High productivity

Capable of drilling in excavations with headroom as low as 2 meters (6.5 feet), the drill features a telescopic boom that allows multiple rows of bolts to be installed without repositioning. Automatic functions ensure fast and precise bolt installation.

Safety

Radio remote operation enables the operator to work from a safe distance in a secure and stable area. The FOPS/ROPS canopy provides excellent protection for the operator. The drill's design ensures optimal visibility and balance, allowing for safe and efficient maneuvering in tight spaces.

Maintenance & Reliability

All service points are well-protected yet easily accessible from ground level. The boom and feed structure are robust and durable. Automatic safety shutdowns ensure the protection of the equipment.



Safe and optimized operator's station

Safety canopy is certified FOPS/ROPS for a 1950 mm position high, that allows a operator's protection without uncomfortable during the drilling and tramming phase.



Compact rock drill

Sandvik RD106 is a compact rock drill with a low profile height. It drills with air or water flushing.



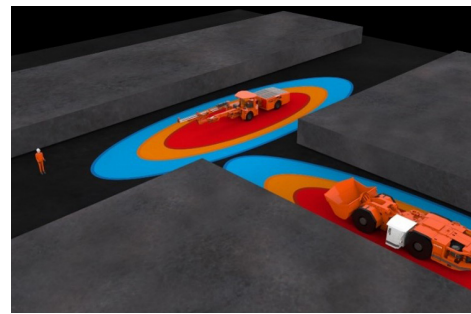
Remotely drilling control system

The THC561 drilling control system with reaming hole selector increases drilling performance and reduces the wear on both rock drill and rock tools for an extended lifetime.



Bolts magazine

TULPM bolting head is equipped with bolts magazine. The bolt lengths can vary from 1.5 m to 1.8 m. The versatile bolting head construction allows all the most common bolt types



Proximity detection system interface (PDS level 9)

PDS system is generally designed to inform the operator and to slow down the machine and/or stop the equipment in case of a collision risk with a person or object carrying a tag.



Knowledge box™ (TS2-535)

The Knowledge Box™ is our standard connectivity solution onboard Sandvik Underground drills. It allows to collect, process and transfer monitoring data into My Sandvik Digital Service dashboards for visualization of fleet health, productivity and utilization.



Sandvik 365 Parts and Services

Proudly keeping you on track!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DS211L-M bolter'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	RD106 (TS2-334)
Percussion power	6.5 kW
Percussion pressure	140 bar
Percussion rate	65 - 85 Hz
Rotation speed	Max. 350 rpm (with OMM32)
Rotation torque	100 Nm (with OMM32)
Hole size diameter (drifting)	22 - 45 mm
Recommended tools	H25
Shank adapter	R23 (male)
Weight	52 kg

Hydraulic rotary drill

Type of rotary drill	RHR54 wrench (TS2-250)
Operating pressure	Max. 210 bar
Rotation speed	Max. 1 000 rpm
Rotation torque	Max. 450 Nm

Bolting head

Type of bolting head	TU-LPM 60 (TS2-047)
Type of bolts	Mechanized, double pass
Drill rod	MF R23 - H25
Bolt magazine capacity	5 bolts
Side wall bolt	Right and left
Bolting method	Resin cartridge injection

Boom

Type of boom	B26XL-LPMB (TS2-261)
Parallel coverage	1 700 mm
Parallelism	500 mm
Boom extension	240°
Feed extension	80° (left), 110° (right)
Boom weight, net	2 000 kg

Hydraulic system

Powerpack	HPP155 (1 x 55 kW)
Filtration size (pressure / return)	20 µ / 10 µ
Oil tank volume	160 liters (drilling)
Filling pump for hydraulic oil	Manual
Oil cooler (water actuated)	OW30 oil-to-water (1 x 30 kW)
Hydraulic low level indicator	Stop drilling when the oil level in drilling tank is low
Safety shut down	Low water pressure, low air pressure, low oil level
Oil drilling safety temperature	Above 75°C

Drilling control system

Type of control system	THC561 (TS2-362)
Operating principle	Hydraulic control
Radio remote controls	Drilling / bolting controls Training mode
Power control	Adjustable full power Adjustable collaring power Anti-jamming system
Rotation control	Adjustable rotation speed Reversible rotation
Flushing control	Water flushing
Onboard diagnostics	Warning display / SICA platform
Drilling and boom movement inhibition	2 x switches and 1 x door interlock

Electric system

Standard voltage	380 - 575 V (± 10%), 50 Hz
Total installed power	70 kW
Main switch gear	MSE1
IP classification	Specification TS2-132
Starting method	Star delta starter 380 - 575 V
Automatic cable reel	TCR LP with spooling system
Cable reel controls	Operator station and rear of unit
Cable reel end switch	Automatic brake application before end of cable
Proximity detection ready	1 x power cable available in the operator compartment
Battery switch	1 x double pole lockable switch
Front working lights (combined working and driving)	6 x 43 W LED (24 V)
Rear working lights (combined working and driving)	2 x 43 W LED (24 V)
Amber flashing light	LED (24 V)
Operator station light	Standard
Sealed AGM batteries	2 x 12 V, 95 Ah

Air and water flushing

Flushing of holes	By Water
Water booster pump type	WBP1 (4 kW)
Water pump capacity	33 l/min at 15 bar (input pressure = 4 bar)
Water pump inlet pressure	2 bar (min.)
Flushing water pressure	10 - 15 bar
Shank lubrication device	SLU1 (air / oil mist)
Air compressor	1.6 m³/min at 7 bar
Manual air flushing	1 x 60 liters air receiver
Rock drill oil consumption	50 - 100 g/h
Rock drill air consumption	250 l/min

Operator's safety canopy

Canopy certification	FOPS / ROPS (ISO 3449) with mechanical stopper
Unit height in tramming	High position : 1 950 mm Low position : 1 825 mm
Operation	Seated operations
Operator's seat	Ergonomic T-back seat
Sound pressure level according to EN 16228	Operator station: 98 dB(A)

Technical Specification

Carrier

Type of carrier	TCLP II (frame steered)
Steering system	± 43°
Carrier articulation	± 15°
Ground clearance	300 mm
Diesel engine	Deutz BF4M2012 (74 kW, Tier 2)
Diesel engine control	Electronic, EMR
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Wheel motor	4 x radial piston MSE18 high torque
Tires	315/85 x 15
Service brakes	Hydrostatic and positive braking
Parking and emergency brakes	SAHR fail safe type wet disc brakes
Neutral braking	Brakes applied when neutral position activated
Tramming speed	8.6 km/h (Horizontal) 4.3 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 15° / 15° (EN 16228-2)
Fuel tank	60 liters
Tramming oil tank	50 liters
Carrier stabilization	2 x Vertical (front) 2 x Vertical (rear)
Brake release	Manual pump
Tramming alarm	Backward alarm
Wheel chocks and holder	2 pieces
Document box	A3 format
Knowledge Box™	Connectivity solution (TS2-535) My Sandvik insight readiness (TS2-390)
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 USB key of manuals (PDF files) 1 x Online Parts manuals (MySandvik)

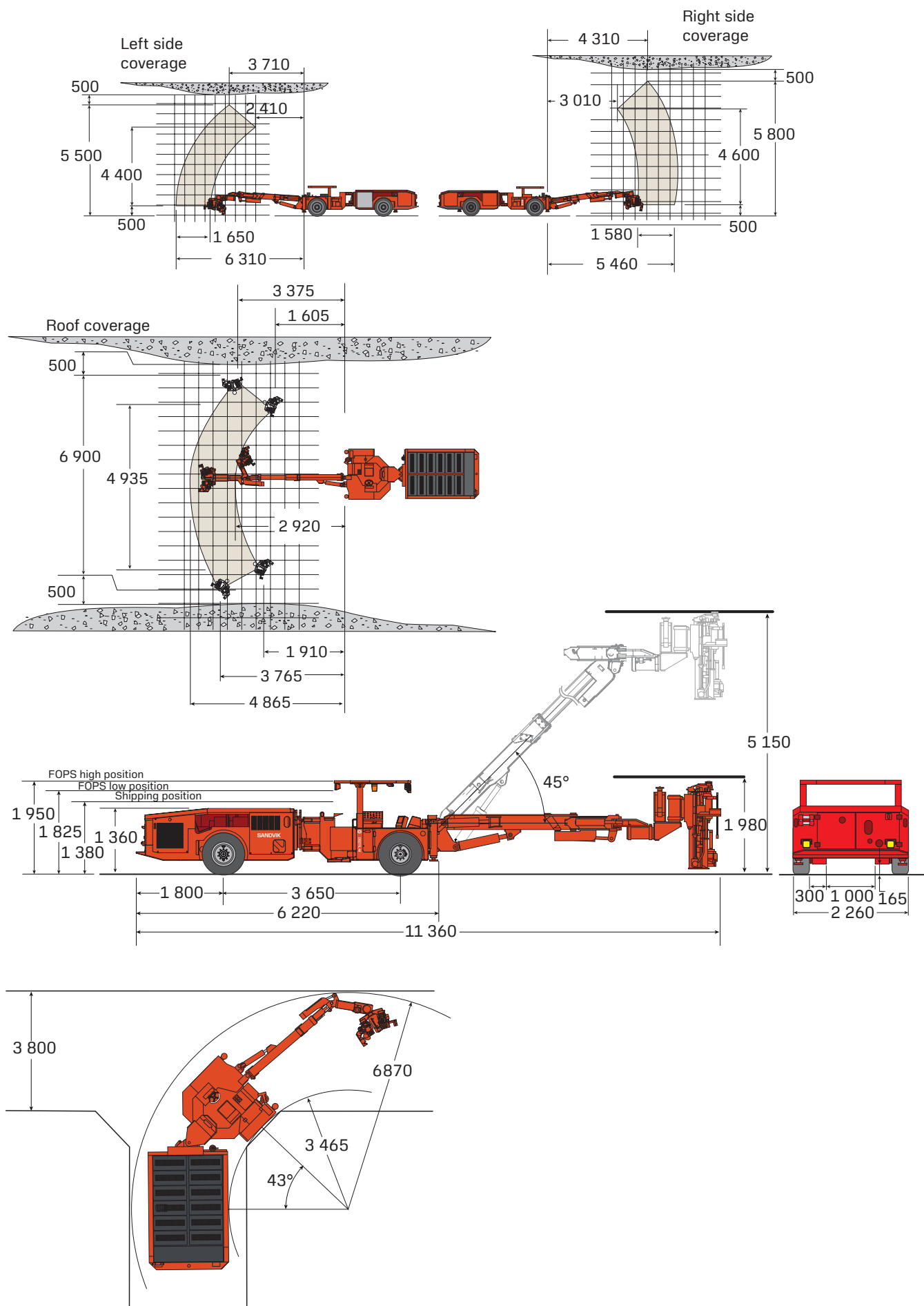
Optional features and packages

Bolting head	
Boom suspension system	Smooth tramming, improved ergonomy
Bolting head	
*Type of bolting head TU-LPM	TU-LPM 50 (Bolt length 1.5 - 1.6) 2.1 meters single pass holes with 2 x 60 liters air receivers
Resin mixing system Additional rod handler	Automatic Optional
Hydraulic system	
*Filling pump for hydraulic oil	Electric
Additional tramming HP filter	10 micron
*Biodegradable oils	PLANTOHYD SE 68 or PLANTOHYD SE 46 (arctic)
Electric system	
*Starting method	Soft starter 380 - 575 V only
Electric cables	Specification TS2-121
Ground fault and overcurrent protection	VYK
Indicator light for jacks up	Sensors in the jacks
Dewatering pump outlet readiness	Max. 11 kW (380 - 575 V)
Air and water system	
Air mist flushing	External water / internal air, CTN16 + 2 x 60 liters air receivers With IP5 air cleaner
Air mine connection	2 x 60 liters air receivers
End of hole air flushing	Hose and reel for accessories
Compressed air outlet	2 hooks
Air / water hooks	Ø32 mm (1 ¼"), 80 meters
Water hose with hooks	
Cleaning system	
HP system with reel	Up to 180 bar (TS2-343)
Greasing systems	
Centralized greasing points	Carrier (TS2-463)
Manual system	Greasing gun and cartridge with hose reel (TS2-463)
Operator's safety canopy	
Safety grill	See spec sheet TS2-062
Fire suppression system	
Hand held fire extinguisher	1 x 6 kg Type ABC
Manual or automatic system	Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system	Sandvik Eclipse™ (TS2-461)
Carrier	
Engine filter	Diesel particulate filters (DPF)
*Foam filled tires	4 pcs
ABA brakes	Auto brake application on default
*Lockable filler cap	Fuel and oil tanks
*Knowledge Box™	My Sandvik productivity readiness (TS2-390)
Proximity interface (PDS system)	CANbus Level 9 (TS2-381)
Extra items	
Berg plug / Berg base	
Spare rock drill	RD106
Filling device for accumulators	Specification TS2-430
Tools and pressure test box	Specification TS2-429
Spare wheel assembly	Air or foam filled tire
Special tools for rock drill	Field tool set (TS2-119) Complete tool set (TS2-118)
Documentation	Extra paper, PDF manuals
Warranty extension	One year (excl. Kazakhstan)
Package: Country specific	SAS (Specification TS2-155)

*) Replaces standard feature

Technical drawings

All dimensions in mm



All dimensions in mm

SANDVIK

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