SANDVIK

DD211L
Low-profile drill

Technical Specification



mining.sandvik



Versatile and productive in low-profile drifts

Key features

Coverage	36 m² (auto-parallel)
Hydraulic rock drill	1 x RDX5, 20 kW
Drilling feed	1 x TF512
Boom	1 x B26XLS-NV
Hole length	Up to 4 660 mm
T-section width in turning	4 000 mm
Transport width	2 260 mm
Transport height	1 380 mm / 1 950 mm
Transport length	13 000 mm
Total weight	14 000 kg depending on options

Sandvik DD211L is a low-profile single-boom electro-hydraulic drill designed to work in excavations with headroom as low as 1.7 meters.
The robust universal boom has a large optimum shaped coverage, 360-degrees rotation and full automatic parallelism for fast and easy face drilling. The boom can also be used for cross-cutting. The hose layout is specifically designed to maximize protection in low headings.

The exceptional 'V'-shape layout is designed for good visibility and balance, which, combined with the powerful four-wheel-drive articulated carrier, ensures fast and safe manoeuvring even in low headroom conditions.

The 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.

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



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.

Increased productivity

Delivering high drilling efficiency with the THC561, this rig is equipped with the RDX5 rock drill, designed for heavy-duty performance in the toughest conditions. Its versatility allows it to be used for face and crosscut drilling in excavations with headroom as low as 1.7 meters.

Safety and efficiency

The rig features a FOPS/ROPS canopy, providing excellent protection for the operator. The Proximity Detection System (PDS) with an L9 interface enhances safety by reducing the risk of collisions. Its well-balanced design and optimized layout ensure superior visibility and allow for safe, efficient maneuvering in tight conditions.

Maintenance & reliability

All service points are securely protected yet easily accessible from ground level, ensuring convenience and safety. The rig features a strong and durable boom and feed structure, while automatic safety shutdowns provide reliable protection for the equipment



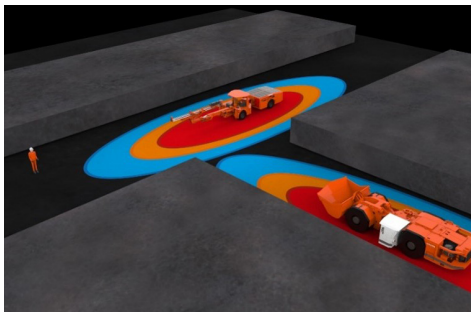
Safe and optimized operator's station

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.



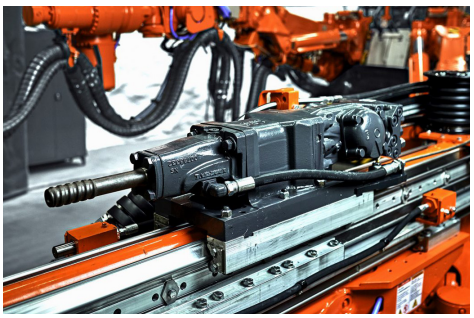
Efficient control system

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.



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.



Robust and performing rock drill

Sandvik RDX5 is a robust rock drill for heavy duty rock drilling. It is designed for face and long hole drilling, also used in rock bolting. RDX5 is designed to perform even in the harshest conditions.



Versatile and robust boom

Sandvik B26XLS-NV boom is a multi-purpose hydraulic boom for mechanized tunnelling, drifting, cross-cutting and bolthole drilling in medium and low-profile sections.



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 DD211L 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	RDX5 (TS2-433)
Percussion power	20 kW
Percussion pressure	210 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (with OMS80)
Rotation torque	400 Nm (with OMS80)
Hole size diameter (drifting)	43 - 64 mm
Hole size diameter (cut hole)	76 - 127 mm
Recommended tools 43 - 45 mm: 48 - 51 mm:	 T38 – H35 – Alpha 340 T38 – H35 – Alpha 360 T38 – R39 – Alpha 360
Shank adapter	T38 (male)
Weight	210 kg

Drilling feed

Type of feed	TF510 Optional	TF512 Standard	TF514 Optional	TF516 Optional	TFX6/12 Optional	TFX8/14 Optional
Feed force	25 kN	25 kN	25 kN	25 kN	25 kN	25 kN
Rod length	3 090 mm	3 700 mm	4 305 mm	4 915 mm	1 830 / 3 700 mm	2 480 / 4305 mm
Hole depth	2 830 mm	3 440 mm	4 050 mm	4 660 mm	1 610 / 3 440 mm	2 220 / 4 050 mm
Total length	4 690 mm	5 300 mm	5 910 mm	6 520 mm	3560 / 5390 mm	4170 / 6000 mm
Net weight	470 kg	500 kg	530 kg	560 kg	640 kg	680 kg

Boom

Type of boom	B26XLS-NV Standard (TS2-157)	B26XLF Optional (TS2-260)
Parallel coverage	36 m²	41.4 m²
Parallelism	Automatic hydraulic	Automatic hydraulic
Boom extension	1 700 mm	1 700 mm
Feed extension	1 600 mm	1 600 mm
Roll-over angle	360°	360°
Boom weight, net	2 010 kg	1 960 kg

Hydraulic system

Powerpack	HPP555 (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
Manual boom control	Direct control Fully proportional Hydraulic parallelism
Drilling control	Adjustable collaring power Feed / percussion control Anti-jamming system
Automatic cycle	Stop and return automatics
Drilling reaming selector	Two rotation speeds can be preset
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	1.6m³/min at 7 bar
Manual air flushing	1 x 60 liters air receiver
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 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)

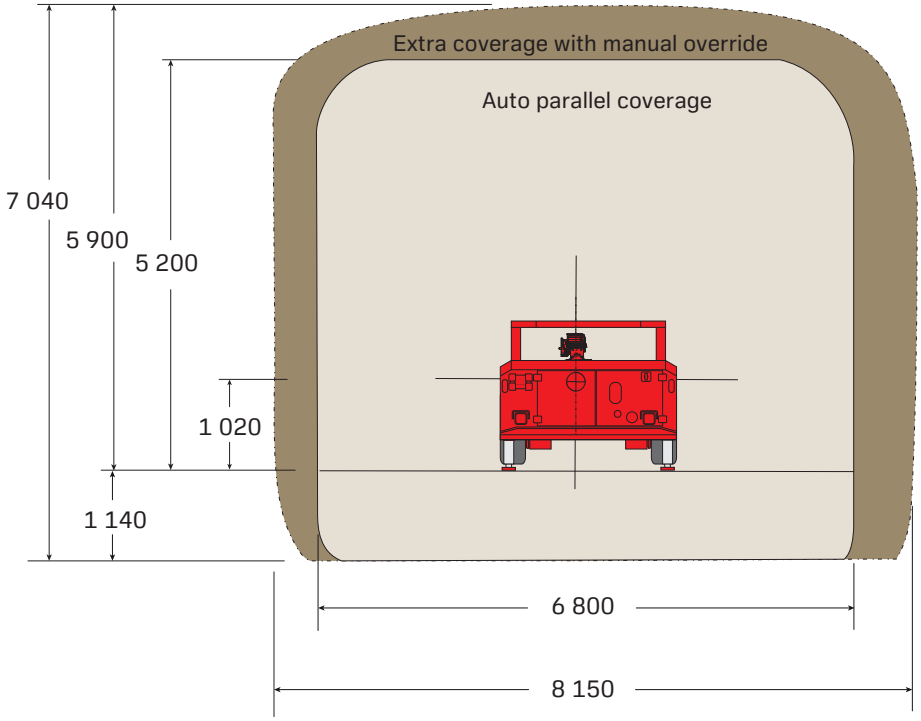
Optional features and packages

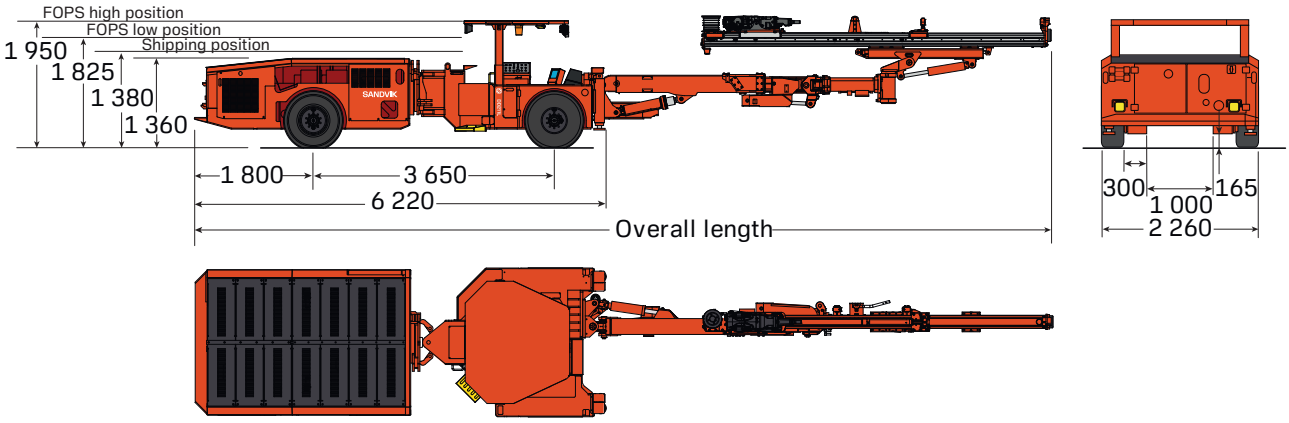
Boom	
*Type of boom	B26XLF boom (TS2-260) Specification TS15-232
Boom suspension system	Smooth tramming, improved ergonomy
Drill feed	
*Feed lengths	10', 14', 16'
*Telescopic feed	TFX6/12, TFX8/14
Hydraulic system	
*Filling pump for hydraulic oil	Electric
Additional tramming HP filter	10 micron
*Biodegradable 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
Air mine connection	With IP5 air cleaner
End of hole air flushing	2 x 60 liters air receivers
Compressed air outlet	Hose and reel for accessories
Air / water hooks	2 hooks
Water hose with hooks	Ø32 mm (1 ¼"), 80 meters
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	RDX5
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 (TS2-434) Complete tool set (TS2-435)
Documentation	Extra paper, PDF manuals
Warranty extension	One year (excl. Kazakhstan)
Package: Country specific	SAS (Specification TS2-155)

**) Replaces standard feature*

Technical drawings

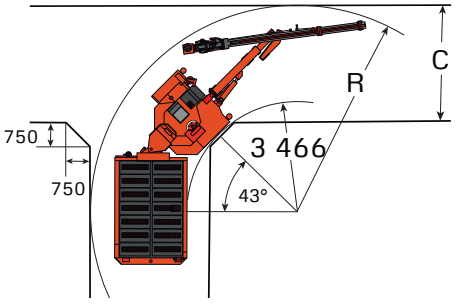
All dimensions in mm





Overall length

	TF510	TF512	TF514	TF516	TFX6/12	TFX8/14
DD211L (B26XLS-NV)	12 450 mm	13 000 mm	13 220 mm	14 110 mm	12 535	12 535



Cornering

	Radius (R)	T-cross (C)
DD211L (TF512)	7 065 mm	4 000 mm
DD211L (TF514)	7 110 mm	4 130 mm
DD211L (TF516)	7 240 mm	4 150 mm
DD211L (TFX6/12)	6 525 mm	3 825 mm
DD211L (TFX8/14)	6 600 mm	3 880 mm

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