

DD211L-V Low-profile drill

Technical Specification





Same carrier
through the range

Versatile and productive in low-profile drifts

Key features

Coverage	19 m ² (auto-parallel) 25 m ² (manual override)
Hydraulic rock drill	1 x RD314, 14 kW
Drilling feed	1 x CFX-XS
Boom	1 x B16NV
Hole length	Up to 2130 mm
T-section width in turning	3 110 mm
Transport width	2 260 mm
Transport height	1 380 mm / 1 950 mm
Transport length	10 375 mm
Total weight	13 600 kg depending on options

Sandvik DD211L-V is a single-boom low-profile drill designed to work in excavations with headroom as low as two meters.

The carrier, coupled with the unique multi-purpose boom and telescopic feed, gives Sandvik DD211L-V an extreme in versatility not seen before in a single-boom low-profile jumbo.

This jumbo is capable of drilling both support and face advance, optimizing the mining cycle. It allows high drilling performance with good drill steel economy and high machine reliability.

The exceptional 'V' shape layout is designed for good visibility and balance. Coupled with the powerful four-wheel-drive articulated carrier, it ensures safe, fast and versatile manoeuvring even in tight conditions.

The improved operator environment and controls 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

A versatile rig designed for multiple applications, including face, crosscut, support hole drilling, XLP vent hole drilling, and bolting, even in excavations with headroom as low as 2 meters. Equipped with proportional controls, it ensures smooth and precise operation. The RD314 rock drill, known for its compact and robust design, delivers a high penetration rate for maximum efficiency

Safety and efficiency

The FOPS/ROPS canopy ensures excellent protection for the operator, while the Proximity Detection System (PDS) with an L9 interface helps minimize collision risks. The drill's well-designed layout provides optimal visibility and balance, enabling safe and efficient maneuvering even in tight conditions.

Maintenance & reliability

All service points are securely protected while remaining easily accessible from ground level. The robust boom and feed structure ensure durability and reliability, while automatic safety shutdowns safeguard the equipment during operation.



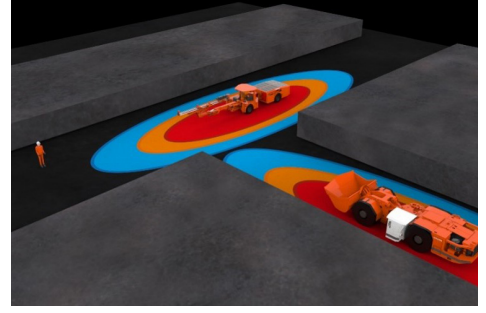
Safe and optimized operator's station

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.



High frequency rock drill

Sandvik RD314 is a compact, robust and universal hydraulic percussive rock drill. It is known for its hydraulic efficiency and high penetration rate.



Versatile and robust boom

Sandvik B16NV boom equipped with CFX-XS feed is a combination robust and very versatile to operate in confined 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-V 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	RD314 (TS2-137)
Percussion power	14kW
Percussion pressure	140 bar
Percussion rate	110 Hz
Rotation speed	Max. 530 rpm (with OMS100)
Rotation torque	340 Nm (with OMS100)
Hole size diameter (drifting)	38 - 51 mm
Hole size diameter (cut hole)	76 - 127 mm
Recommended tools	
43 - 45 mm:	R32 - H25 - R32
48 - 51 mm:	R32 - H25 - R25
Shank adapter	R32 (female)
Weight	115 kg

Drilling feed

Type of feed	CFX-XS feed (TS2-159)
Feed force	31 kN (max.)
Rod length	2 435 / 1 830 mm
Hole depth	2 132 mm
Total length	1 965 mm
Net weight	416 kg

Boom

Type of boom	B16NV (TS2-173)
Parallel coverage	19 m ² (auto-parallel) 25 m ² (manual override)
Parallelism	Automatic hydraulic
Boom extension	800 mm
Feed extension	500 mm
Roll-over angle	360°
Boom weight, net	1 800 kg

Hydraulic system

Powerpack	HPP355 (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	1.6m ³ /min at 7 bar
Manual air flushing	1 x 60 liters air receiver
Rock drill oil consumption	100 - 200 g/h
Rock drill air consumption	150 - 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 : 1 775 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

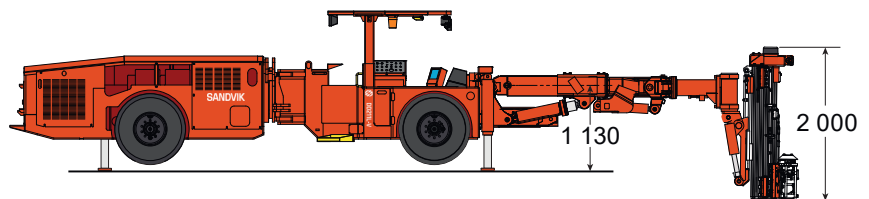
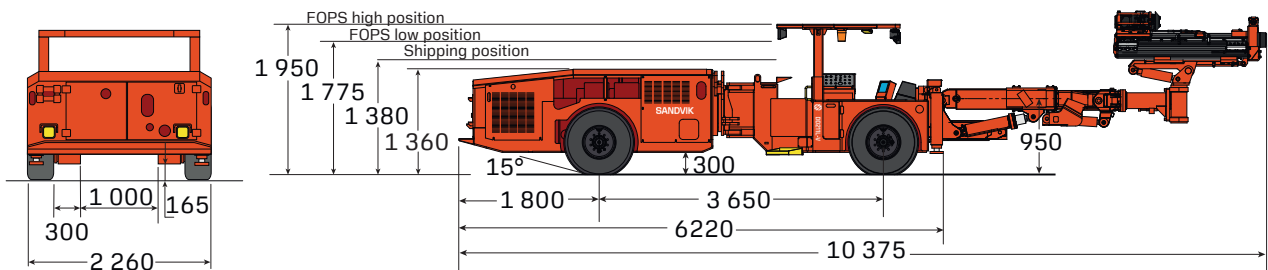
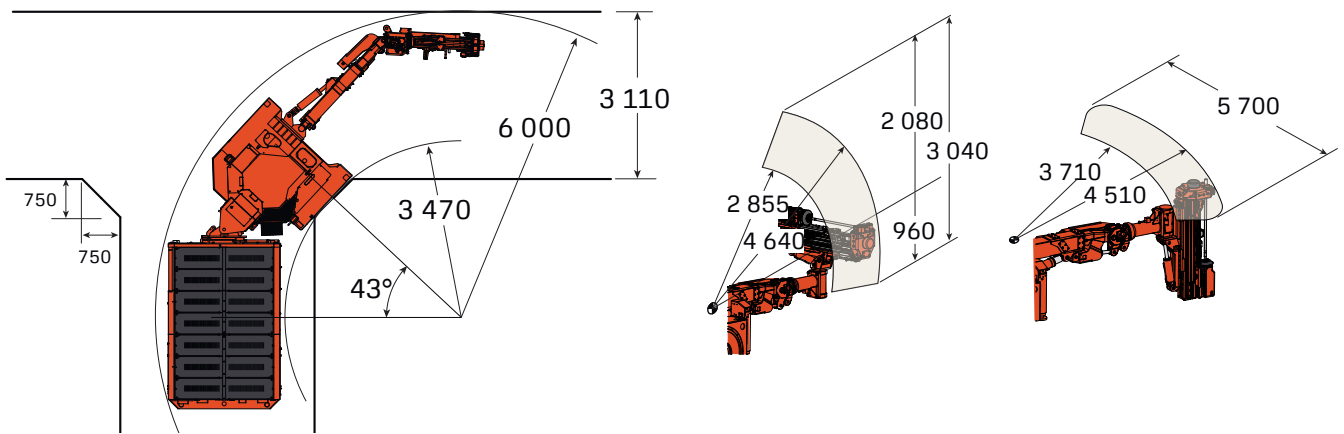
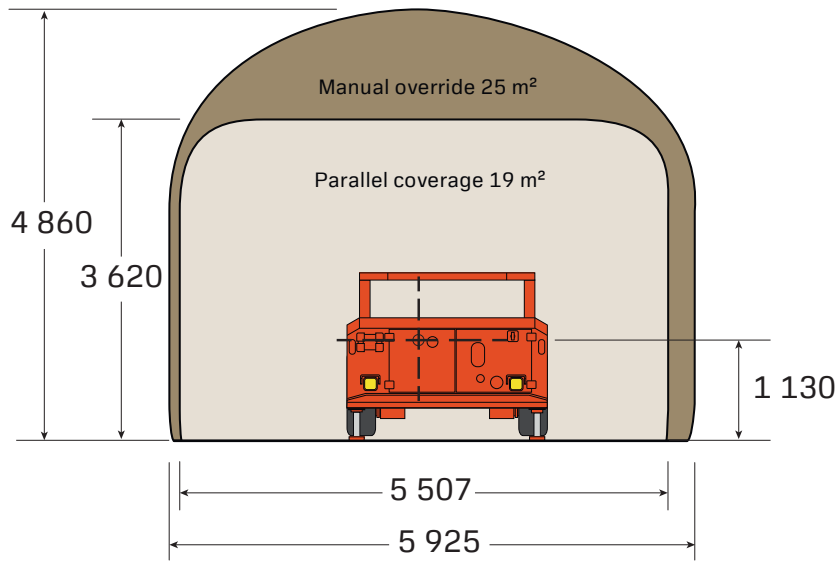
Type of carrier	TCLP II (frame steered)
Steering system	± 43°
Carrier articulation	± 15°
Ground clearance	300 mm
Diesel engine	Deutz BF4M2012 (74 kW, Tier 2)
Diesel engine control	Electronic, EMR
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Wheel motor	4 x radial piston MSE18 high 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

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	RD314
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



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