

DD210 Development drill

Technical Specification





Versatility in narrow vein drilling

Key features

Coverage	24 m ² (manual override) 17 m ² (parallel holding)
Drift size class (H x W)	2 500 mm x 2 500 mm
Hydraulic rock drill	RDX5
Drill feed	TF500-12'
Boom	B14F
Turning width (T-section)	2 850 mm (TF512)
Transport width	1 400 mm
Transport height	1 900 mm / 2 735 mm
Transport length	9 830 mm (TF512)
Total weight	9 100 kg depending on options

Sandvik DD210 is a compact and flexible single-boom electro-hydraulic jumbo for tunneling and mining development in cross sections up to 24 m².

The robust universal boom has a large optimum shaped coverage, 360-degree rotation and full automatic parallelism for fast and easy feed positioning, and accurate face drilling.

The compact jumbo layout is designed for good visibility and good stability.

The heavy-duty and articulated carrier, with powerful four-wheel-drive transmission, ensures stable and safe manoeuvring in small mining drifts or construction tunnels.

The modern, powerful hydraulic rock drill and the smooth drilling controls system allow high drilling performance with good drill steel economy and high machine reliability.

The operating environment and incorporated 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

Optimized dilution control

Our mobile, narrow, and productive drill rigs offer a cutting-edge approach to narrow vein mining, ensuring efficiency and precision.

Cost-Effective Development: Small drifts reduce development costs significantly.

Enhanced Ground Stability: Shorter and smaller long holes provide improved ground stability.

Optimized Resource Recovery: Selective extraction and precise drilling minimize waste removal and maximize ore recovery.

Experience advanced mining technology tailored for productivity and sustainability.

Drilling control upgraded

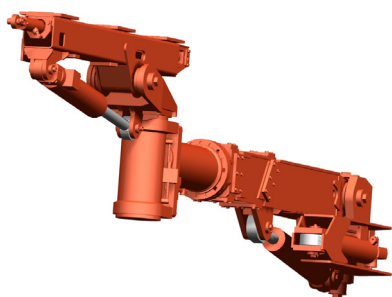
Sandvik DD210 is now equipped with the THC561 drilling control, to upgrade the performance of drilling.

The new drilling controls on the DD210 enhance compatibility with other Sandvik drills. This reduces the number of spare parts required and simplifies the machine drilling transitions process for operators.



Efficient control system

The THC561 drilling control system increases drilling performance and reduces the wear on both rock drill and rock tools for an extended lifetime. The operating environment and incorporated automatic functions allow the operator to concentrate on safe, precise and productive operations.



B14SNV boom

Sandvik B14SNV boom is a multi-purpose hydraulic boom for mechanized tunneling, drifting, cross-cutting and bolthole drilling in medium sections. It can also be used for production drilling with cut-and-fill and room-and-pillar methods. This telescopic boom offer large rectangular face coverage area.



NV package

The optional narrow vein package contains:

- a versatile and robust boom with 360° rotation
- a telescopic feed and rod retainer
- a rock drill high frequency
- a dedicated cross-cutting operating controls



Compact NV package

The optional compact narrow vein package contains:

- a versatile and robust boom with 360° rotation
- a compact telescopic feed and rod retainer
- a rock drill high frequency
- a dedicated cross-cutting operating controls



Sandvik 365 Parts and Services

Proudly keeping you on track!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DD210 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	Max. 220 bar
Percussion rate	67 Hz
Rotation speed	Max. 365 rpm (with OMS80)
Rotation torque	425 Nm (with OMS80)
Hole diameter (drilling)	43 – 64 mm
Hole diameter (reaming)	76 – 127 mm
Recommended tools	
43 - 45 mm:	T38 – H35 – Alpha® 340
48 - 51 mm:	T38 – H35 – Alpha® 360
Shank adapter	T38 (male)
Weight	210 kg

Drilling feed

Type of feed	TF500-10' (RDX5) Optional	TF500-12' (RDX5) Standard	CFX6/12 (RDX5) Optional	CFX6/12 (RD314 / RD315) Optional	CFX-XS (RD314) Optional
Feed force (max.)	25 kN	25 kN	23 kN	23 kN	20 kN
Hole length	2 830 mm	3 440 mm	1 520 / 3 350 mm	1 587 / 3 417 mm	1 070 / 2 132 mm
Rod length	3 090 mm	3 700 mm	1 830 / 3 660 mm	1 830 / 3 660 mm	1 830 / 2 435 mm
Total length	4 690 mm	5 300 mm	3 285/ 5 115 mm	2 930 mm 4 765 mm	1 965/ 3 035 mm
Net weight (w/o rock drill)	470 kg	500 kg	650 kg	505 kg	416 kg

Boom

Type of boom	B14F (TS2-239)
Parallel coverage	17.6 m² auto-parallel 25.8 m² manual override
Parallelism	Automatic hydraulic
Feed extension	2 000 mm (TF feed)
Roll-over angle	360°
Boom weight, net	1 500 kg

Hydraulic system

Powerpack	HPP545 (1 x 45 kW)
Filtration size (pressure / return)	10 µ / 10 µ
Oil tank volume	165 liters
Cooler for hydraulic oil	Harsh water cooled OW25 oil-to-water (25 kW)

Drilling control system

Type of control system	THC561 (TS2-362)
Operating principle	Hydraulic control
Controls	Direct control Fully proportional Fast rock drill return movement
Drilling control	Feed / percussion control Anti-jamming system Reaming control
Automatic cycle	Stop and return automatics (for feed without rod retainer)
Rotation speed selector	Two rotation speeds can be preset
Display default	QN panel
Boom inibition switch	At each side of the machine

Electric system

Standard voltage	380 – 690 V (±10%)
Total installed power	60 kW
Main switch gear	QM14
IP classification	Specification TS2-132
Starting method	Star delta starter 380 - 575 V Direct on line 600 V - 690 V
Automatic cable reel	CRQ with six turn indicator light and three turn interlock system
Cable reel control	At operator station
Front lights	4 x 50 W LED (24V), (4 200 lm, 6 000 K)
Rear lights	1 x 50 W LED (24V), (4 200 lm, 6 000 K)
Parking rear brake /park lights	1 x Red LED
Sealed AGM batteries	2 x 12 V, 90 Ah
Low level hydraulic oil	Indicator and switch
Emergency stop	On the electric cabinet, at right side machine and on drilling panel

Air and water flushing

Flushing of holes	By Water
Water booster pump type	WBP1
Water pump capacity	33 l/min at 15 bar
Water pump inlet pressure	2 - 7 bar
Flushing water pressure	10 - 15 bar
Shank lubrication device	SLU1 (air / oil mist)
Air compressor	1 m³/min at 7 bar
Oil consumption	180 - 250 g/h
Air consumption	250 - 350 l/min

Operator's safety cabin

Safety canopy certification	FOPS (ISO 3449)
Unit height in tramming	2 735 mm
Operation	Seated tramming Standing drilling
Sound pressure level according to EN 16228	Operator station: 102 dB(A) Emitted: 124 dB(A)
Operator's seat	Ergonomic, adjustable for tramming including seat belt

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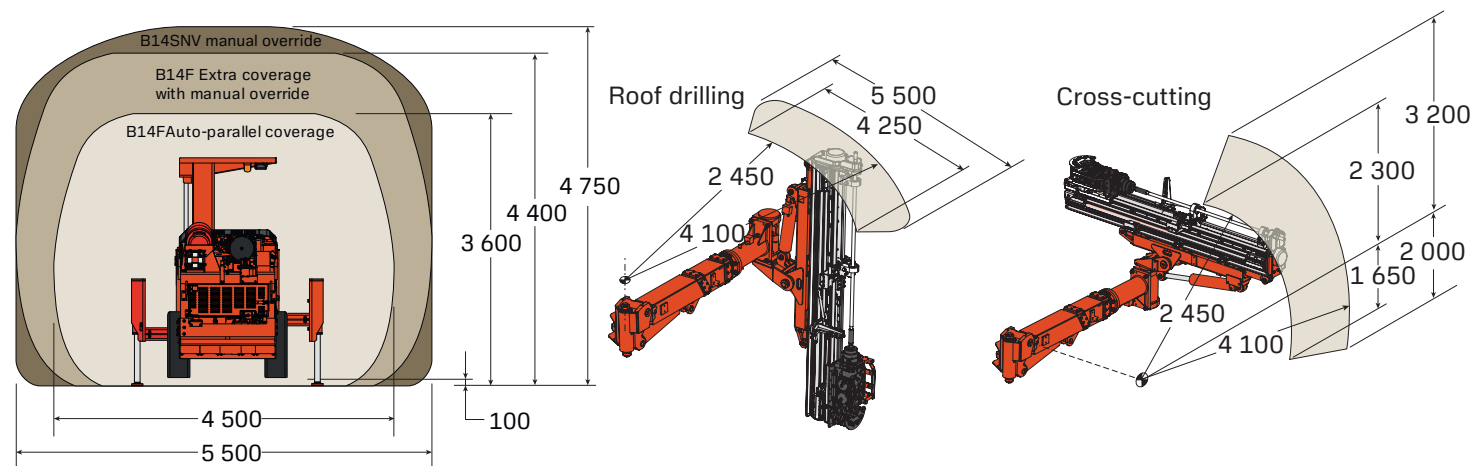
Carrier

Type of carrier	TCQ-25 (articulated frame)
Carrier articulation	± 27°
Rear axle oscillation	± 6°
Ground clearance	210 mm
Diesel engine	Deutz D914L04, 52 kW, Tier 3, CANmet
Exhaust catalyzer	Standard
Transmission	Hydrostatic
Wheels motor	4 x radial piston
Tires	300 x 15, 8.00 - 15
Service brakes	Hydrostatic transmission
Parking and emergency brakes	SAHR type, fail safe wet disc brakes ABA brakes
Tramming speed	6.5 km/h (Horizontal) 4 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 15° / 5° (standard feed) Max. 15° / 3° (CFX-feed) (according to ISO 18758)
Fuel tank	75 liters
Hydraulic jacks	2 x telescopic jacks (front)
Centralized greasing points	Carrier only (TS2-463)
Reverse tramming alarm	Standard
Knowledge Box™	Connectivity solution (TS2-535) My Sandvik insight readiness (TS2-390)
Documentation	1 x Operator's manual 1 x Parts manual (in English only) 2 x USB key of manual (PDF format) 1 x Online Parts manuals

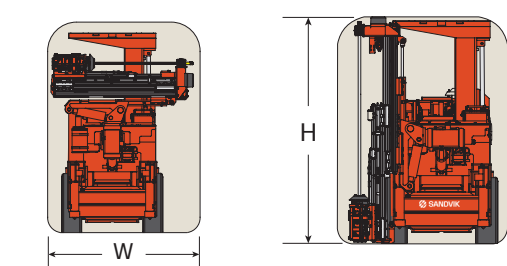
Optional features and packages

Rock drill	
*Type of rock drill	RD314 or RD315 with CFX-feeds
Feed	
Type of feed	TF500-10', CFX6/12, CFX-XS
Rear stinger (CFX-feed)	600 mm (vertical hoses), incl. rod retainer
Rod retainers	TRR1 with controls (one feed)
Boom	
*Type of boom	B14SNV (mandatory with CFX feed and CFX-XS feed) + rear jacks
Hydraulic system	
Filling pump for hydraulic oil	Electric
Cooler for hydraulic oil	OA25 oil-to-air (25 kW)
Drilling control system	
Access detector and protector	Mandatory in Europe (TS2-211)
Air and water system	
Air mist flushing kit	External air / external or internal water Internal air / external or internal water
Air cleaner for external air	IP5 with air mine connection
1 x 60 liters air receiver	End of hole air flushing
Water hose with hooks	32 mm (1¼"), 80 meters
Cleaning system	
HP system without reel	Up to 180 bar (TS2-343)
Greasing systems	
Manual system	Greasing gun and cartridge with hose reel (TS2-463)
Electric system	
*Optional voltage	1000 V electric system and DOL starter
*Dual voltage kit	380 - 660 V (50Hz)
*Electric cable	Specification TS2-121
Ground fault and overcurrent protection	VYK
Battery jump start	Optional
Amber flashing light	LED
Operator's safety canopy	
Safety grill	For canopy or all around canopy
Fire suppression system	
Hand held fire extinguisher	1 x 6 kg (type ABC), Desautel or 1 x 8 kg (type ABC), Ansul
Manual system	Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system	Sandvik Eclipse™ (TS2-461)
Carrier	
*Diesel engine	Deutz TCD2.2 L4, 55 kW Stage V, Tier 4F Deutz TCD2.2, EMR, 55 kW, China 4 Deutz D914L04, 55 kW, Tier 4i, MSHA Deutz BF4L914 EMR, 72 kW, Tier 2
*Diesel engine, for high altitude	
*Foam filled tires	4 pcs
Hydraulic jacks	2 x jacks (rear)
Brake release	Manual hand pump
Wheel chocks and holders	2 Sets
Speedometer	Speed display
Tramming cameras	1 x rear and 2 x side (rear view)
Knowledge Box™ (TS2-390)	My Sandvik productivity readiness Remove Knowledge Box™
Extra items	
Berg plug / berg socket	250A
Spare rock drill	RDX5, RD314 or RD315
Spare wheel assembly	Standard or foam filled tire
Special tools for rock drill	Field tool set (TS2-434) Complete tool set (TS2-435)
Tools and pressure test box	Specification TS2-429
Documentation	Extra paper or PDF manuals
Warranty extension	One year (excl. Kazakhstan)
Package: Country specific	USC, AUS, CIS, EUR
*Package: NV package	B14SNV, CFX6/12, RDX5, with 2 x rear jacks B14SNV, CFX 6/12, RD314, with 2 x rear jacks B14SNV, CFX 6/12, RD315, with 2 x rear jacks B14SNV, CFX-XS, RD314 with 2 x rear jacks
*Package: NV compact package	
*Package: Harsh water	Basic or advanced (TS2-049)
*Package: Anti-freezing	220V connection
*) Replaces standard feature	

Technical drawings

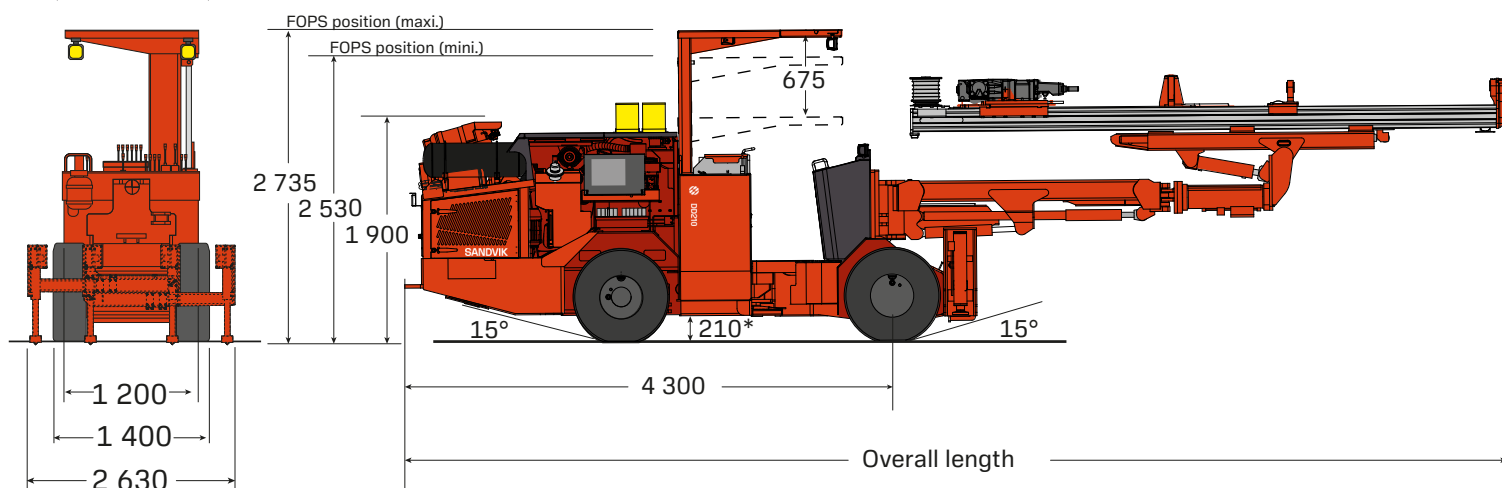


Roof drilling and cross-cutting coverage with NV package



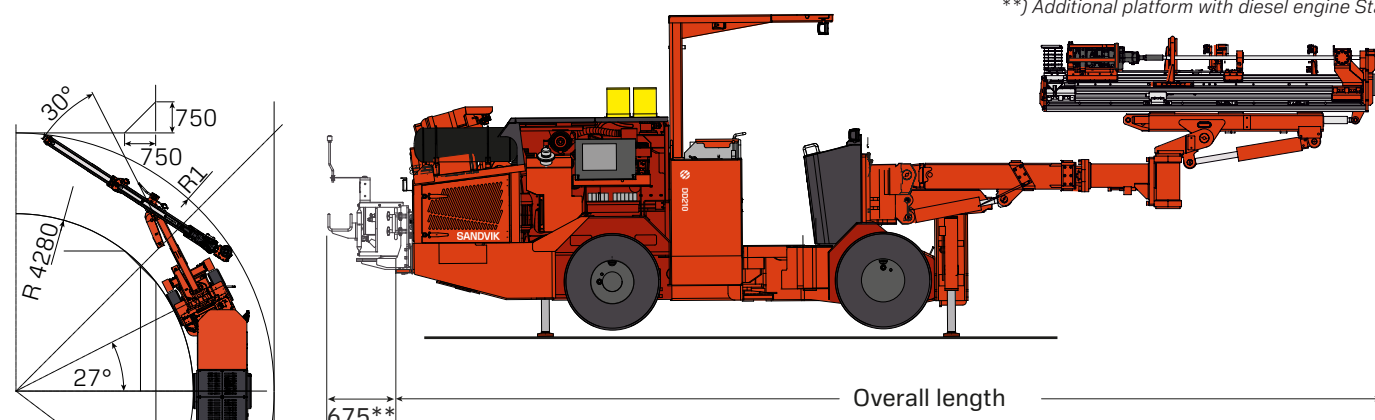
Type of feed	B14S NV + CFX6/12 + RDX5 (Optional)	B14SNV + CFX6/12 + RD314 or RD315 (Optional)	B14SNV + CFX-XS + RD314 (Optional)
*W (mini)	3 400 mm	3 000 mm	2 100 mm
*H (mini)	3 400 mm	3 000 mm	2 530 mm (FOPS mini)

*)100 mm clearance minimum



*) 150 mm ground clearance below wheels motor front

**) Additional platform with diesel engine Stage V version



Type of feed	B14F + TF510 (Optional)	B14F + TF512 (Standard)	B14SNV + CFX6/12 RDX5, RD314 or RD315 (Optional)	B14SNV+ CFX-XS + RD314 (Optional)
Overall length	9 045 mm	9 830 mm	9 150 mm	7 650 mm
Turning radius (R1)	5 785 mm	6 230 mm	6 230 mm	5 500 mm
Cornering (C)	2 700 mm	2 850 mm	2 850 mm	2 430 mm

Values realised with 5° of the sideways tilt (according to ISO 18758)

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