



SANDVIK DD210 DEVELOPMENT DRILL

TECHNICAL SPECIFICATION

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.

KEY FEATURES

Coverage	24 m ²
Rock drill	HLX5, 20 kW
Drilling feed	TF500-12'
Boom	B14F
Hole length	Up to 3 480 mm
Drift size class (H x W)	2 500 mm x 2 500 mm
Turning width (T-section)	2 600 mm
Transport width	1 400 mm
Transport height	1 900 mm / 2 750 mm
Transport length	9 605 mm
Total weight	9 100 kg depending on options



HYDRAULIC ROCK DRILL

Type of rock drill	HLX5 (TS2-232)
Percussion power	20 kW
Percussion pressure	Max. 220 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (OMS80)
Rotation torque	Max. 400 Nm (OMS80)
Hole size (drilling)	43 - 64 mm
Hole size (reaming)	76 - 127 mm
Recommended rod	T38 - Hex 35 - R32 T38 - Hex 35 - Alpha 330 T38 - Hex 35 - R35
Shank adapter	T38 (male)
Weight	210 kg
Length	955 mm
Profile height	87 mm
Inflating device for accumulator	Specification 2-9110

DRILLING FEED

Type of Feed	Feed force	Total length	Hole length	Rod length	Net weight
TF500 - 10'	25 kN	4 660 mm	2 830 mm	3 090 mm	470 kg
TF500 - 12'	25 kN	5 270 mm	3 440 mm	3 700 mm	500 kg

BOOM

Type of boom	B14F (TS2-239)
Parallel coverage	24 m ²
Parallelism	Automatic hydraulic
Feed extension	2 000 mm
Boom weight, net	1 500 kg
Roll-over angle	360°

HYDRAULIC SYSTEM

Powerpack	HPP 545 (45 kW)
Filtration (pressure / return)	12 μ / 12 μ
Oil tank volume	165 liters
Oil tank filling pump	Electric
Oil cooler (water actuated)	1 x OC25 (25 kW), harsh water
Cooler for hydraulic oil	Harsh water cooled OW25 oil-to-water (25 kW)

DRILLING CONTROL SYSTEM

Type of control system	IBCQF
Operating principle	Hydraulic control
Controls	Direct control Fully proportional Fast rock drill return movement
Drilling control	Feed / percussion control Anti-jamming system
Automatic cycle	Stop and return automatics (for TF-feed without rod retainer)
Rotation speed selector	Two rotation speeds can be preset

ELECTRIC SYSTEM

Standard voltages	380 - 690 V (±10%)
Total installed power	60 kW
Main switch gear	QM14
IP classification	Specification TS2-132
Starting method	Star delta 380 - 575 V DOL 600 - 690 V
Automatic cable reel	CRQ with six turn indicator light and three turn interlock system
Cable reel control	At the operator station
Sealed AGM batteries	2 x 12 V, 90 Ah
Low level hydraulic oil	Indicator and switch
Emergency stop	On the electric cabinet and at right side machine
Front lights (combined working and driving)	4 x 50 W LED (4 200 lm, 6 000 K)
Rear tramming light	1 x 50 W LED (4 200 lm, 6 000 K)
Stop red light	1 x LED

AIR AND WATER SYSTEM

Flushing of holes	By Water
Water booster pump	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	KVL10-1 (air / oil mist)
Air compressor	CTN10, 1 m ³ /min (7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 l/min
End of hole air flushing	1 x 60 liters air receiver

OPERATOR'S SAFETY CANOPY

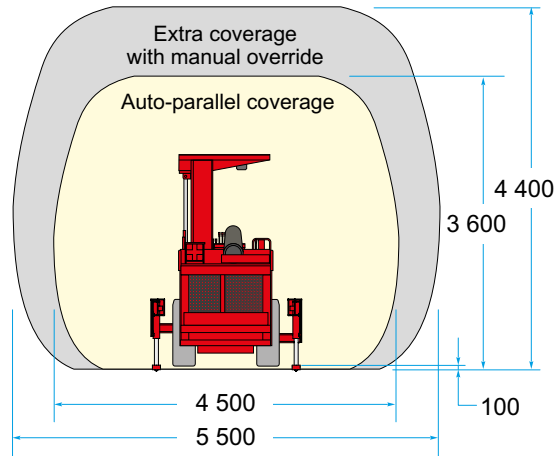
Canopy certification	FOPS (ISO 3449)
Unit height in tramming	2 750 mm
Operation	Standing drilling, seated tramming
Seat	Ergonomic, adjustable for tramming including seat belt
Sound pressure level according to EN 791	Operator station: 102 dB(A) Emitted: 124 dB(A)

CARRIER

Carrier type	TCQ (frame steered)
Carrier articulation	± 27°
Rear axle oscillation	± 6°
Ground clearance	225 mm
Diesel engine	Deutz D914L04, (55 kW, Tier 3)
Exhaust catalyzer	Standard
Transmission	Hydrostatic
Wheel motor	4 x radial piston
Tires, rim	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°
Fuel tank	75 liters
Carrier stabilization	Telescopic (front) Vertical (rear)
Brake release	Manual hand pump
Centralized greasing points	Specification 5-2110
Hand held fire extinguisher	1 x 6 kg (type ABC)
Tramming alarm	Standard
Colour scheme	Sandvik
Documentation	2 x Operator's manual 2 x Maintenance manual 2 x Technical manual (in English only) 2 x Parts manual (in English only) 1 x CD of manuals (PDF files)

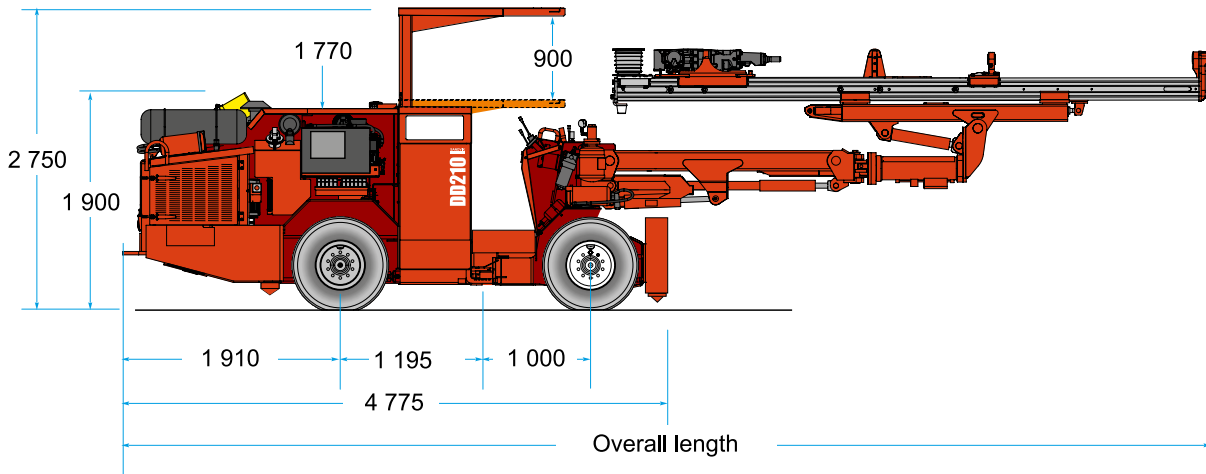
OPTIONAL FEATURES AND PACKAGES

Rock drill	
Shank adapter	R38 / T45
Boom	
*Type of boom	B14NV instead of B14F
Feed	
*Feed length	TF500-10'
Rod retainer	For one feed (TRR1)
Drilling control system	
Back pressure	Recommended with TRR1
Access detector	Mandatory in Europe (TS2-211)
Cleaning system	
LP system without reel	Up to 15 bar
**HP system without reel	Up to 180 bar
Greasing system	
Manual system	Greasing gun and cartridge with hose reel
Electric system	
*Optional voltage	1 000 V (50 or 60 Hz) with DOL starter (machine height mini 2 150 mm)
*Electric cable	Specification TS2-121
Ground fault and overcurrent protection	VYK
Amber flashing light	LED (24 V)
Air and water system	
Air mist flushing kit	External air / external water
Air cleaner for external air	IP5 with air mine connection
Water hose with hooks	32 mm (1 ¼"), 80 meters
Fire suppression system	
**Additional fire extinguisher	1 x 6 kg Type ABC
Manual system	Ansul, 6 nozzles
Carrier	
*Foam filled tires	4 pcs
Wheel chocks and holders	2 Sets
Extra Item	
Berg plug / berg socket	
Kit for disassembly	Identification hoses
Spare rock drill	HLX5
Spare wheel assembly	300 x 15 or foam filled tire
Special tools for rock drill	
Documentation	Extra paper, LinkOne or PDF manuals
Package: Country specific options	USC, EUR, CIS, AUS
*Package: Arctic	Specification TS2-284
*Package: Harsh water	Advanced (Specification TS2-049)
*Package: Narrow vein drill	Specification TS2-276
*Package: NV-compact drill	Specification TS2-349
*Package: Long-hole drill	Specification TS2-269
*) replaces standard feature	
**) Not available with long-hole drill package	

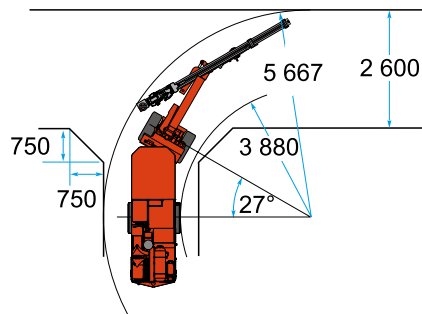
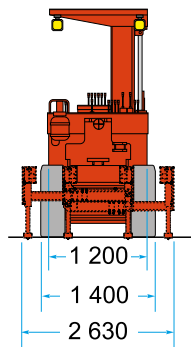


		TF508	TF510	TF512
Overall length	mm	8 800	9 045	9 605

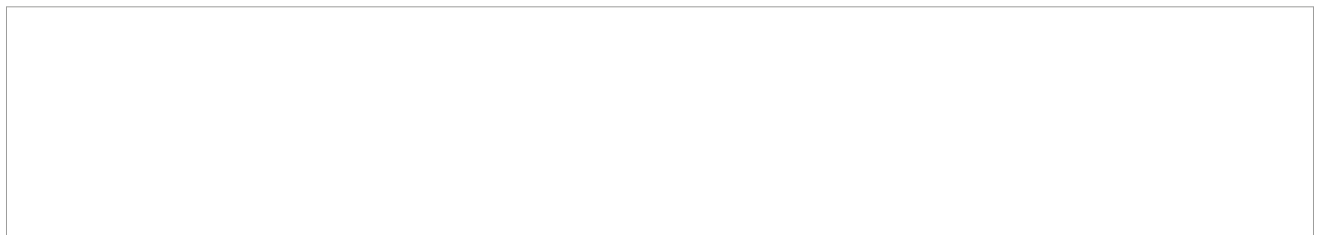
All dimensions in mm



All dimensions in mm



All dimensions in mm



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