



DL210 LONGHOLE DRILL

TECHNICAL SPECIFICATION

Sandvik DL210 is a compact and flexible electro-hydraulic longhole jumbo for production drilling in underground mines.

Designed for vertical and inclined plane rings and fans, Sandvik DL210 is capable of drilling 51 - 64 mm millimeters diameter holes up to 20 meters.

The robust, stable and dedicated longhole drilling boom has 1.5 meters parallel drilling coverage, and offers accurate positioning and sturdy anchoring of the feed to ensure high quality drilling.

The compact jumbo layout is designed with a good visibility and good stability.

The operating environment and incorporated automatic actions allow the operator to concentrate on safe, fast and accurate drilling.

A portable remote control ensures all the feed and rock drill operations.

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

KEY FEATURES

Hydraulic rock drill	RDX5, (20 kW)
Drilling module	LHF2005
Boom	BSL360
Drift size class (H x W)	2 700 x 2 700 mm
Control system	IBCL + ECRL
Turning in T-section	2 510 mm (LHF2005)
Tramming width	1 500 mm
Tramming height	2 750 mm
Tramming length	6 850 mm
Total weight	8 900 kg depending on options

ROCK TOOLS AND HOLE LENGTH

Rod and hole diameter			Hole length (m) with ERCHC12		
Thread	Rod Ø (mm)	Hole Ø (mm)	3'	4'	5'
R32	32	51	12.1 (20*)	16 (20*)	20 (20*)
R38	39	64			
T38	39	64			

*) Manual rod handling



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HYDRAULIC ROCK DRILL

Type of rock drill	RDX5 (TS2-433)
Percussion power	20 kW
Percussion pressure	160 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (OMS125)
Rotation torque	Max. 625 Nm (OMS125)
Shank adapter	T38 (male)
Weight	210 kg
Filling device for accumulators	Specification TS2-430

DRILLING MODULE

Type of drilling module	LHF2005 (TS2-385)
Drilling module force	Max. 20 kN
Rod retainer	FCC2 for one feed
Front and rear stingers	600 mm (front) with LHF2004 / 2005 350 mm (front) with LHF2003 1 200 mm (rear)
Visual angle indicators	2 pcs, feed tilt angle and side angle

DRILLING MODULE DIMENSIONS

Drilling module	LHF2003 Option	LHF2004 Option	LHF2005 Standard
Total length	2 550 mm	2 920 mm	3 225 mm
Extension rod	915 mm	1 220 mm	1 525 mm
Min. operating dimensions	2 650 mm	3 020 mm	3 325 mm
Net weight	695 kg	710 kg	725 kg

LONGHOLE BOOM

Type of boom	BSL360 (TS2-254)
Parallelism	Automatic hydraulic
Feed extension	1 200 mm
Boom weight, net	800 kg
Roll-over angle	360°

HYDRAULIC SYSTEM

Powerpack	HPP 545 (1 x 45 kW)
Filtration (pressure / return)	10 µ / 10 µ
Oil tank volume	165 liters
Oil cooler (water actuated)	1 x OC25 (25 kW), harsh water

DRILLING CONTROL SYSTEM

Type of control system	Umbilical remote control panel
Controls	Auto smooth collaring Precise anti-jamming Fast rock drill return and forward movement
Feed pressure control	Rock tools weight compensation
Remote controls	Umbilical (10 meters) drilling control panel
MySandvik insight	Remote monitoring system

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 starter 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
Low oil level indicator	Low level oil 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)
Parking rear brake / park lights	1 x red LED
Portable working light	1 x 150 W (24V)
Laser positioning light	2 pcs, at each side of the machine
Sealed AGM batteries	2 x 12 V, 90 Ah

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	SLU1 (air / oil mist)
Air compressor	CTN9, 1 m³/min (7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 l/min
Air cleaner for external air	IP5 with air mine connection
End of hole air flushing	1 x 60 liters air receiver

OPERATOR'S SAFETY CANOPY

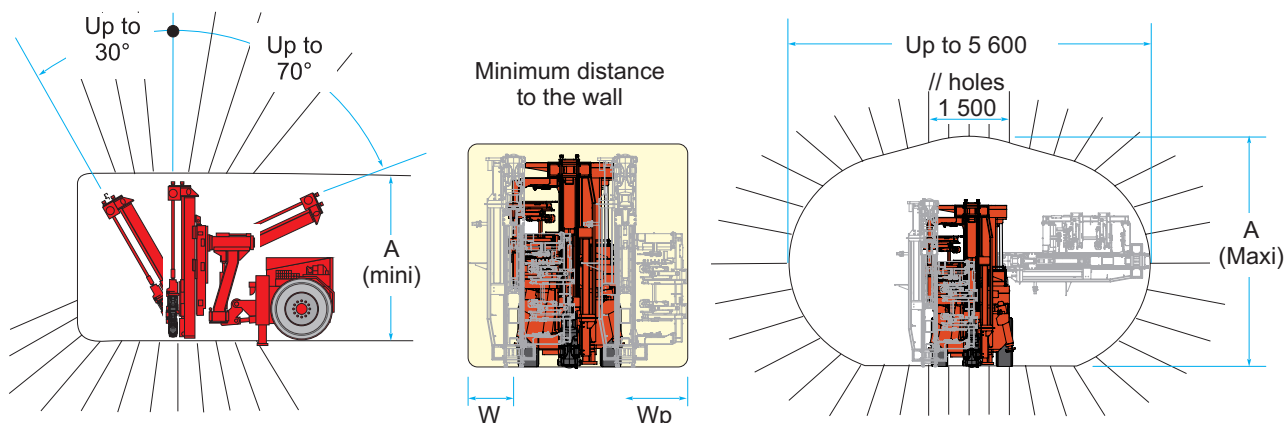
Canopy certification	FOPS (ISO 3449)
Unit height in tramming	2 750 mm
Operation	Standing drilling, seated tramming
Operator's seat	Ergonomic, adjustable for tramming including seat belt
Sound pressure level according to EN 16228	Operator station: 102 dB(A) Emitted: 124 dB(A)

CARRIER

Type of carrier	TCQ (frame steered)
Carrier articulation	± 27°
Rear axle oscillation	± 6°
Ground clearance	225 mm
Diesel engine	Deutz D914L04, 55 kW (Tier 4i, Stage IIIA, MSHA)
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° (according to EN 16228-2)
Fuel tank	75 liters
Carrier stabilization	Vertical inclined (front) Vertical (rear)
Brake release	Manual hand pump
Centralized greasing points	Specification (TS2-463)
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) 2 x USB Key of manuals (PDF files)

OPTIONAL ITEMS

Rock drill	
Power extractor	For RDX5
Drilling module	
*Feed length	LHF2003, LHF2004 (TS2-385)
Drilling module wear parts	Kit for alternative rock tools
Rod handling system	ERHC12 Storing capacity (R32 / T38 / T45) 13 / 12 / 11 rods
Hydraulic system	
Filling pump for hydraulic oil	Electric
Drilling control system	
Instrumentation	TIS DP with data collector (TS2-359)
MySandvik productivity	Remote monitoring system
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	1 000 V (50 or 60 Hz) with DOL (machine height mini 2 470 mm)
*Electric cables	Specification TS2-121
Ground fault and overcurrent protection	VYK
Amber flashing light	LED (24 V)
Battery jump start	
Air and water system	
Air mist flushing	External air / external water
Water hose with hooks	32 mm (1 ¼"), 80 meters
Operator's safety canopy	
Safety grill	For canopy All around canopy
Fire suppression system	
Hand held fire extinguisher	1 x 6 kg Type ABC
Manual system	Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system	Sandvik Eclipse™ (TS2-461)
Carrier	
*Diesel engine	Deutz D914L04, 52 kW, Tier 3, Stage IIIA, CANMET Deutz BF4L914, EMR, 72 kW, Tier 2 (for high altitude)
*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	RDX5
Tools and pressure test box	Specification TS2-429
Spare wheel assembly	Standard 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 additional (excl. kazakhstan)
Package: Country specific options	USC, CIS
*Package: Arctic	In extremely low temperature (Specification TS2-284)
*Package: Harsh water	Advanced (Specification TS2-049)
*) Replaces standard feature	

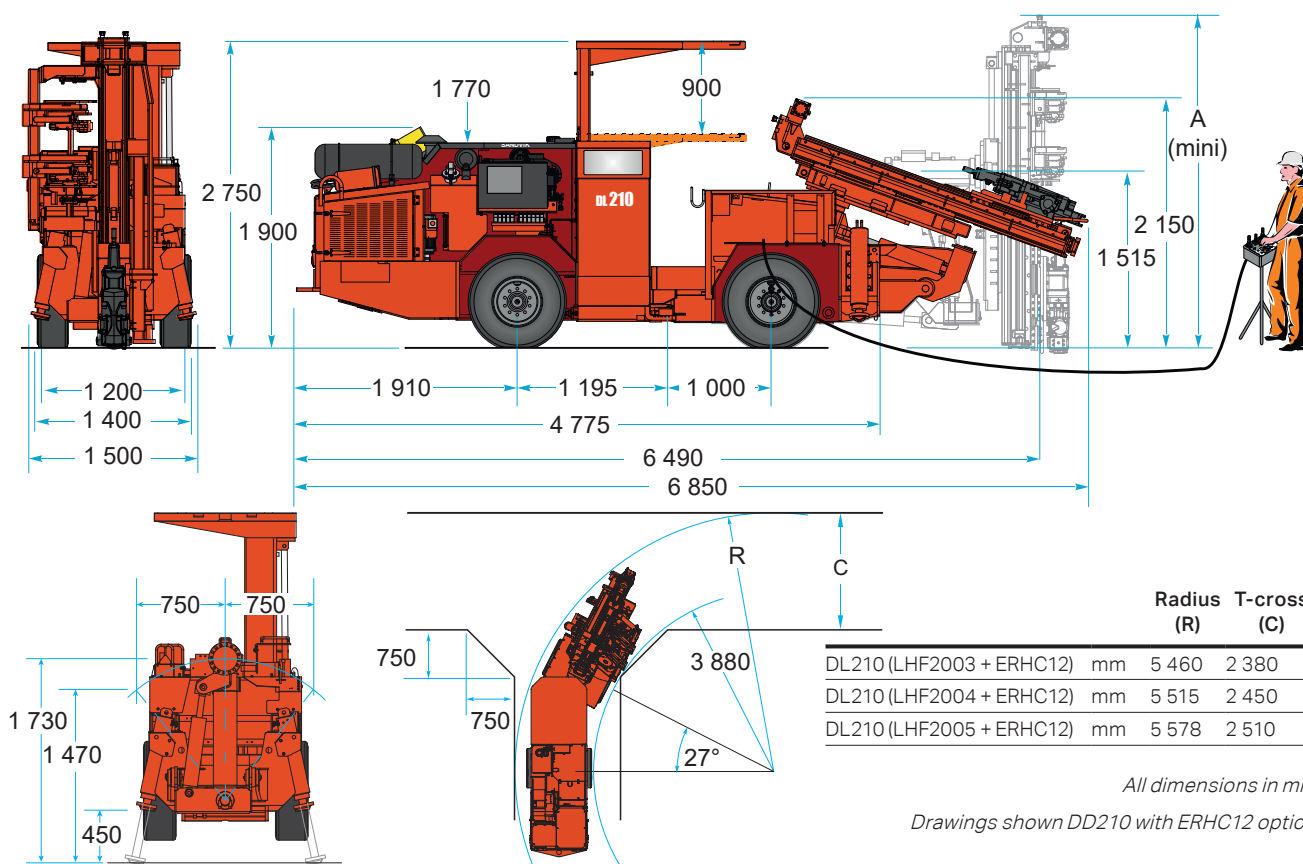


MINIMUM DISTANCE TO THE WALL

	W	Wp
LHF2000	610 mm	300 mm
LHF2000 + ERHC12	610 mm	850 mm

SECTIONS HEIGHT

Feed	Rod	A (mini)	A (maxi)
LHF2003	915 mm	2 700 mm	3 700 mm
LHF2004	1 220 mm	3 000 mm	4 000 mm
LHF2005	1 525 mm	3 300 mm	4 300 mm



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