



DS2710 ROCK SUPPORT BOLTER

TECHNICAL SPECIFICATION

Sandvik DS2710 is a one-man-operated electro-hydraulic rockbolter for rock reinforcement in underground mines with small and medium cross sections. The operator works from supported ground while protected under a FOPS-certified canopy structure. Mechanization of the bolting process ensures efficient, constant and durable rockbolt integrity.

Built from proven and reliable components, Sandvik DS2710 is designed for high availability. At its core is the Sandvik RD212 rockdrill, which enables fast performance.

Versatility is also one of the rockbolter's key characteristics. Sandvik DS2710 can install most common rock bolts in length from 1.5 to 2.4 meters (5 to 8 feet).

KEY FEATURES

Hydraulic rock drill	1 x RD212 (11 kW)
Bolting head	1 x TUC
Bolting boom	1 x B26B
Bolt length	5'....8' (1 525.....2 440 mm)
T-section width in turning	3 030 mm (TUC5)
Tramming width	1 600 mm
Tramming height	2 070 mm / 2 750 mm
Tramming length	9 000 mm (TUC5)
Operating weight	11 500 kg depending on option



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HYDRAULIC ROCK DRILL

Type of rock drill	RD212 (TS2-506)
Percussion power	11 kW
Percussion pressure	Max. 200 bar
Percussion rate	63 Hz
Rotation speed	Max. 300 rpm
Rotation torque	Max. 420 Nm
Hole size	35 - 41 mm
Recommended rod	R32 - H25 - R25
Shank adapter	R32 (female)
Weight	90 kg

BOLTING HEAD

Type of bolting head	TUC5	TUC6	TUC7	TUC8
Bolt length	mm 1 525 (5')	1 830 (6')	2 135 (7')	2 440 (8')
Bolt carousel capacity	9 to 15 rockbolts			
Steel length	mm 1 870	2 175	2 475	2 795
Total length (drilling)	mm 2 700	3 000	3 310	3 530
Total length (bolting)	mm 2 925	3 355	3 655	4 150
Hole depth	mm 1 680	1 980	2 290	2 550
Total weight	kg 1 110	1 150	1 180	1 230

BOOM

Type of boom	B26B (TS2-206)
Boom extension	1 200 mm
Boom weight	1 330 kg
Bolting head	360°

HYDRAULIC SYSTEM

Power pack	HPP355 (1 x 55 kW)
Operating principle	Direct hydraulic control
Percussion, rotation, feed and boom pump	Percussion and feed pump 100 cc (variable) Rotation pump 33 cc (gear)
Filtration (pressure / return)	20 µ / 10 µ
Oil tank volume	200 liters
Cooler for hydraulic oil	OW30 oil-to-water (1 x 30 kW)
Low oil level indication	Level indicator and automatic switch-off

DRILLING CONTROL SYSTEM

Type of control system	THC561, hydraulic control
Rotation speed selector	Two rotation speeds can be preset (drilling and reaming)
Automatic cycle	Stop and return automatics
Drilling control	Feed / percussion control
Manual boom control	Direct control Fully proportional control Hydraulic parallelism

ELECTRIC SYSTEM

Standard voltages	380 - 690 V (± 10%)
Frequency	50 - 60 Hz
Total input power	70 kW
Main switch gear	NSX160N/38
IP classification	Specification TS2-132
Starting method	Star delta starter 380 - 575 V
Automatic cable reel	CR with tramming interlock
Cable reel remote control	At the operator station
Phase inverter detector	Automatic
Front working lights (combined working and driving)	4 x 48 W LED (24 V)
Rear tramming light	2 x 48 W LED (24 V)
Manual search light	1 x 70 W (24 V)
Operator station light	1 x 5 W LED (24 V)
Batteries	2 x 12 V, 80Ah
Battery charger	24 V, 10A

AIR AND WATER SYSTEM

Flushing of holes	By water
Water booster pump type	WBP1 (4 kW)
Water pump capacity	40 l/min at 14 bar (inlet pressure = 4 bar)
Water pump inlet pressure	2 bar (min.)
Flushing water pressure	10 - 15 bar
Shank lubrication device	SLU-1 (air / oil mist)
Air compressor	CTN9, 1 m³/min (7 bar)
Rock drill oil consumption	100 - 200 g/h
Rock drill air consumption	250 l/min

OPERATOR'S SAFETY CANOPY

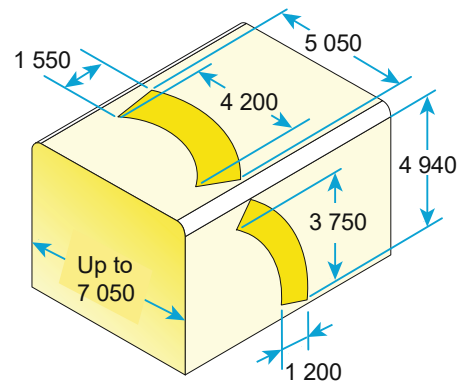
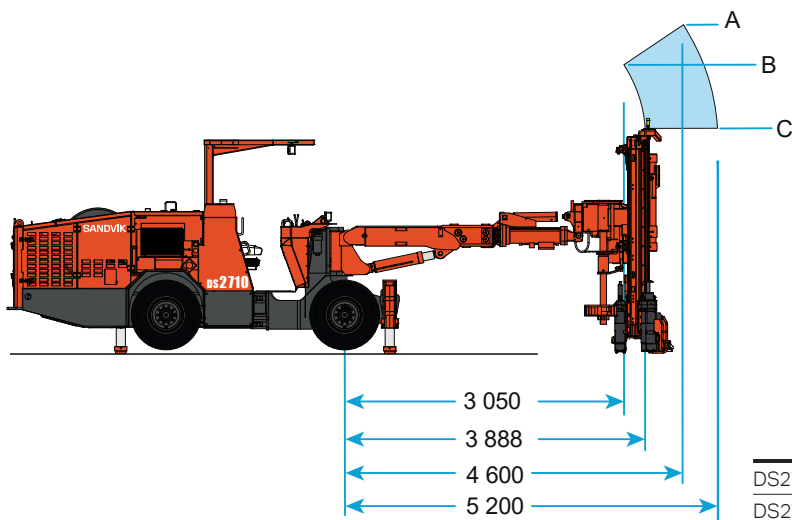
Canopy certification	FOPS (ISO 3449)
Unit height in tramming (FOPS)	High position : 2 750 mm Low position : 2 535 mm
Sound pressure level EN 16228	Operator station: 102 dB(A) Emitted: 124 dB(A)
Operator's seat	For working / tramming Adjustable with seat belt

CARRIER

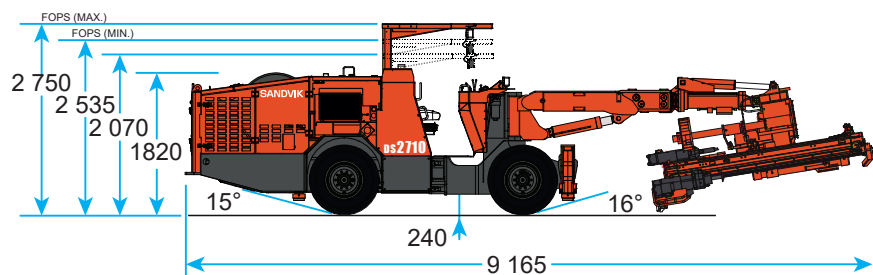
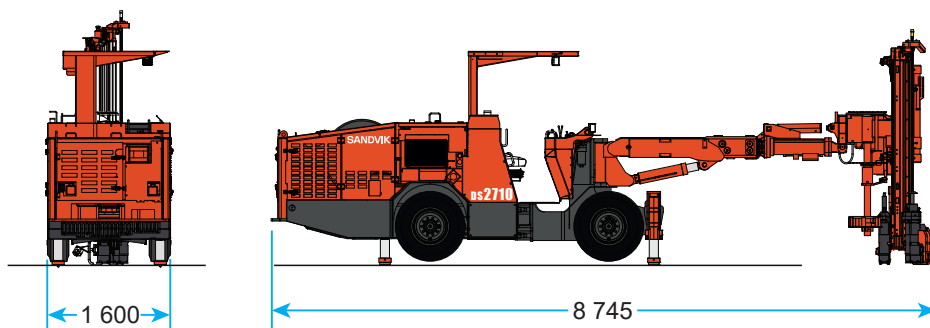
Type of carrier	MERCURY (frame steered)
Carrier articulation	± 35°
Rear axle oscillation	± 6°
Ground clearance	240 mm
Diesel engine	Deutz TCD3.6 L4EDG, 74 kW, Tier 3, China IV
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Wheel motor	4 x radial piston
Tires	10.00 - 15
Service brakes	Hydrostatic and positive braking
Parking and emergency brakes	SAHR fail safe type wet disc brakes
Tramming speed	9 km/h (Horizontal) 4 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 15° / 5°
Fuel tank	60 liters
Carrier stabilization	2 x Telescopic (front) 2 x Vertical (rear)
MySandvik insight	Remote monitoring system (FDM)
Brake release	Manual hand pump
Centralized greasing system	Carrier
Hand held fire extinguisher	1 x 6 kg, Type ABC
Tramming alarm	Backward alarm
Colour scheme	Sandvik
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

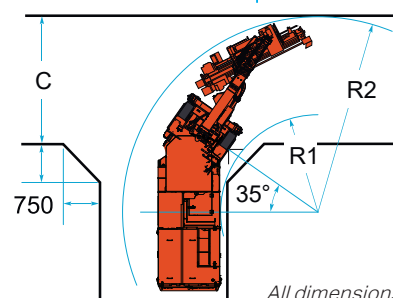
Bolting head	
*TUC bolting head length	TUC5, TUC6, TUC7, TUC8
Bolting option	
*Bolting alternatives	GCR, GCC, S, M, WI
*"In the hole" resin cartridges injection	For GCR bolting system (TS2-290)
Screen handler	On the main boom (TS2-355)
Bolt carriage	Max. length 8' bolt, 50 pcs (increase the width on the machine)
Hydraulic system	
Filling pump for hydraulic oil	Electric
Hydraulic inflating kit	
Cleaning system	
LP system with reel	Up to 15 bar (TS2-343)
HP system with reel	Up to 180 bar (TS2-343)
Electric system	
*Multi-voltage	1 000 V (50 Hz) with multivoltage transformer
*Electric cables	Specification TS2-121
Ground fault and overcurrent protection	VYK200, VYK1000
Battery jump start	Optional
Dewatering pump outlet	8 kW (site voltage 380 - 1 000 V)
Amber flashing light	LED (24V)
Air and water system	
*Air compressor	CTN16 (1.6 l/min at 7 bar)
*Air mist flushing kit	For external air and water supply (IP5 air cleaner included)
*End of hole air flushing	CTN16 with 1 x 60L air receiver
Hooks for water / air hose	2 hooks
Greasing system	
Manual system	Greasing unit with pump, reel and nozzle (TS2-463)
Operator's safety canopy	
Operator protection	Safety grill
Fire suppression system	
Manual or automatic system	Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system	Sandvik Eclipse™ (TS2-461)
Carrier	
*Diesel engine	Deutz TCD3.6 L4EDG, 74 kW, Stage IIIA, China III
High altitude engine kit	Hydraulic unloading for high altitude engine start
*Foam filled tires	4 pcs
Speedometer	For 2700 serie
Wheel chocks and holders	2 Sets
Extra items	
Berg plug and socket	RD212
Spare rock drill	Standard or foam filled tires
Spare wheel assembly	Specific tools
Special tools for rock drill	Rock drill inflating box (TS2-430)
	Tools and pressure test box (TS2-429)
Documentation	Extra manuals
*Package: Harsh water	Advanced (TS2-049)
*) Replaces standard feature	



		A (Maxi)	B (Optimum)	C (Mini)
DS2710 (TUC5)	mm	5 800	4 950	2 925
DS2710 (TUC6)	mm	5 950	5 100	3 355
DS2710 (TUC7)	mm	6 100	5 250	3 655
DS2710 (TUC8)	mm	6 300	5 450	4 150



		Total length (L)	Radius (R1)	Radius (R2)	T-cross (C)
DS2710 (TUC5)	mm	9 000	2 900	5 430	3 030
DS2710 (TUC6)	mm	9 200	2 900	5 600	3 200
DS2710 (TUC7)	mm	9 400	2 900	5 770	3 370
DS2710 (TUC8)	mm	9 600	2 900	5 945	3 550



All dimensions in mm

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