

DS2710

Rock support bolter

Technical Specification





Versatile Rock bolter

Key features

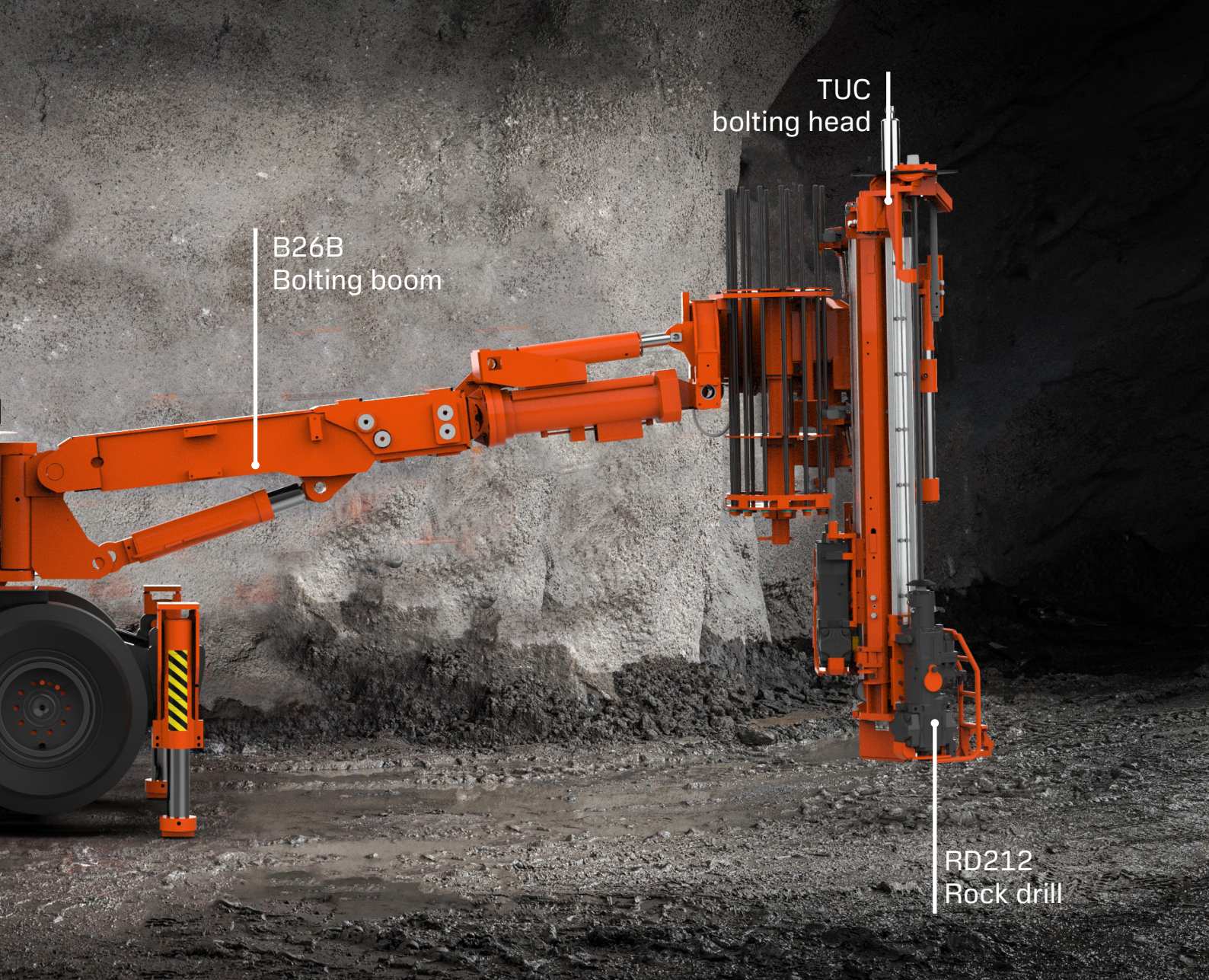
Hydraulic rock drill	RD212 (11 kW)
Bolting head	TUC
Bolting boom	B26B
Bolt length	5'....8' (1 525.....2 440 mm)
T-section width in turning	3 030 mm (TUC5)
Transport width	1 600 mm
Transport height	2 070 mm / 2 750 mm
Transport length	9 000 mm (TUC5)
Total weight	11 500 kg depending on options

Sandvik DS2710 is a single operator 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).



Main benefits

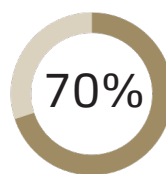
Optimized operations

The 2710 class is the ideal solution for underground mines and drilling contractors looking for a smarter control of ore dilution and increasing selective process in mining. The series consists of three types of drills using a common platform for different applications.

- DD2710 for development drilling
- DS2710 for rock support bolting
- DL2710 and DL2720 for longhole production drilling

These drills are simple and safe to operate with robust components and provide an excellent performance to ownership cost ratio.

Based on a modular platform, able to tram smoothly into mining and tunneling cross-sections of 2.7m x 2.7m or larger, this range of drills provide accurate drilling with high performance, a large coverage and drill capacity with enhanced product safety and excellent mobility.



Simple and modular

Up to 70%* component modularity with 2710 series



Drilling applications

Three types of drills using a common platform for different applications.



High adaptability

Reach 100% adaptability to any mechanized bolt type



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.

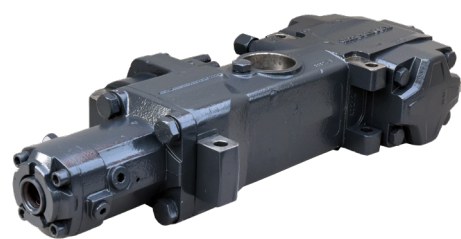
The operating environment, and incorporated automatic functions allow the operator to concentrate on safe, precise and productive operations.



Efficient TUC bolting head

Sandvik TUC bolting head is a simple, strong, reliable, easy to use bolting head, designed for safer mechanized bolting, using all sorts of bolts, for most rock conditions.

Drilling is done with RD212 drifter or RHR rotary drill, for minimum down time and maximum productivity.



High penetration rate with RD212 rock drill

Sandvik RD212 is a compact, robust and universal hydraulic percussive rock drill. It is known for its hydraulic efficiency and high penetration rate.



Sandvik 365 Parts and Services

Proudly keeping you on track!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DS2710 bolter'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	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 feed	TUC5	TUC6	TUC7	TUC8
Bolt length	1 525 (5')	1 830 (6')	2 135 (7')	2 440 (8')
Bolt carousel capacity	9 to 15 rockbolts			
Steel length	1 870 mm	2 175 mm	2 475 mm	2 795 mm
Total length (drilling)	2 700 mm	3 000 mm	3 310 mm	3 530 mm
Total length (bolting)	2 925 mm	3 355 mm	3 655 mm	4 150 mm
Hole depth	1 680 mm	1 980 mm	2 290 mm	2 550 mm
Total weight	1 110 kg	1 150 kg	1 180 kg	1 230 kg

Boom

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

Hydraulic system

Powerpack	HPP355 (1 x 55 kW)
Percussion and feed pump	100 cc (variable)
Rotation pump	33 cc (gear)
Filtration size (pressure / return)	20 µ / 10 µ
Oil tank volume	200 liters
Filling pump for hydraulic oil	Electric
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
Automatic cycle	Stop and return automatics
Drilling control	Feed / percussion control
Manual boom control	Direct control Fully proportional control

Electric system

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

Air and water flushing

Flushing of holes	By Water
Water booster pump type	WBP1 (4 kW)
Water pump capacity	75 l/min at 16 bar (inlet 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)
Oil consumption	100 - 200 g/h
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

Technical Specification

Carrier

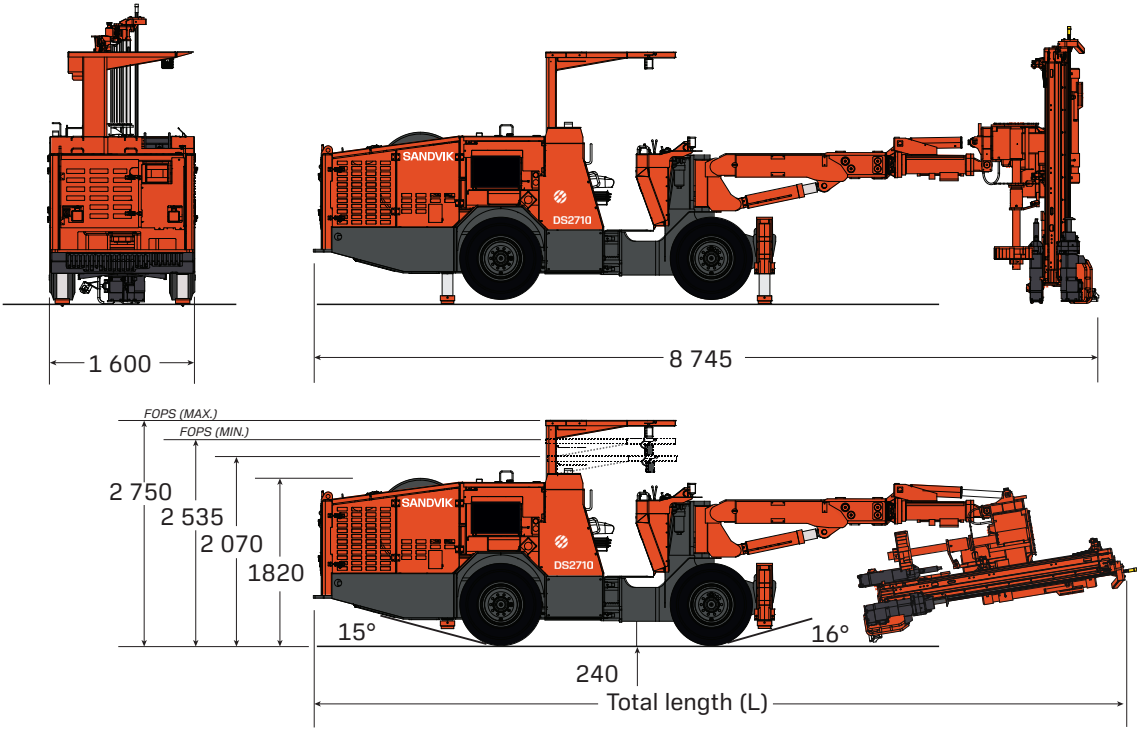
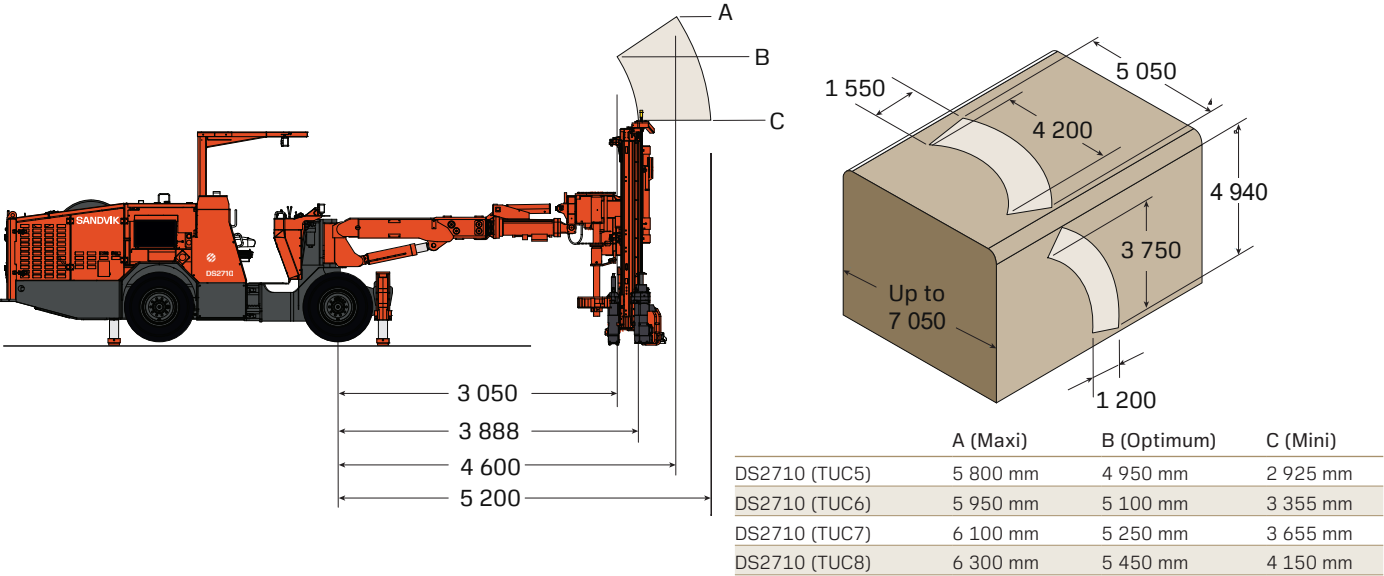
Type of carrier	MERCURY (frame steered)
Carrier articulation	± 35°
Rear axle oscillation	± 6°
Ground clearance	240 mm
Diesel engine	Deutz TCD3.6, 75 kW, China 4 with DPF
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Axles	4 x radial piston
Tires	10.00 - 15
Service brakes	Hydrostatic 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
Hydraulic jacks	2 x Telescopic (front) 2 x Vertical (rear)
Brake release	Manual hand pump
Centralized greasing points	Carrier (TS2-463)
Hand held fire extinguisher	1 x 6 kg (type ABC)
Tramming alarm	Backward alarm
Knowledge Box™	Connectivity solution (TS2-535) My Sandvik insight readiness (TS2-390)
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

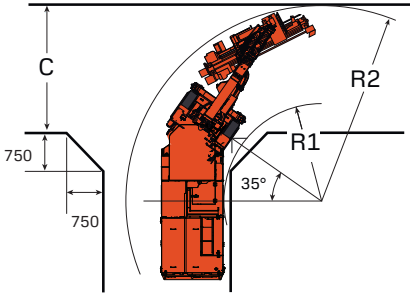
Bolting head	
*TUC bolting head length	TUC5, TUC6, TUC7, TUC8
Bolting options	
*Bolting alternatives	GCR, GCC, S, M, WI
*"In the hole" resin cartridges injection	For GCR bolting system (TS2-290)
Screen handler	On the main boom (TS2-355)
Bolt carriage	Max. length 8' bolt, 50 pcs (increase the width on the machine)
Hydraulic system	
Type of powerpack	Electric main motor IE4
Drilling control system	
Boom movement prevention	2 x switches and indicators lights
Access detector	Mandatory in Europe
Air and water system	
Flushing flow controls	Activates antijamming when water flow is low
*Air compressor	CT28 (2.8 m³/min at 7 bar, 18.5 kW)
*Air mist flushing kit	External air and water supply Internal air and external water supply
1 x 60L air receiver	For end of hole air flushing
Water hose	Ø38 mm, 50 m
Hooks for water / air hose	2 hooks
Cleaning system	
LP system with reel	Up to 15 bar (TS2-343)
HP system with reel	Up to 180 bar (TS2-343)
Greasing systems	
Manual system	Greasing unit with pump, reel and nozzle (TS2-463)
Electric system	
*Optional 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) 8 kW (380 V / 50 Hz)
Amber flashing light	LED (24V)
Operator's safety cabin	
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 L4 (74 kW Stage V) Deutz TCD3.6 (74 kW Tier 3)
Pre-filter kit	For Deutz engines
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	
Spare rock drill	RD212
Spare wheel assembly	Standard or foam filled tires
Special tools for rock drill	Field tool set (TS2-434) Complete tool set (TS2-435)
Warranty extension	One year (excl. Kazakhstan)
Documentation	Extra manuals
*Package: Country specific options	CE package
*Package: Harsh water	Advanced (TS2-049)
*) Replaces standard feature	

Technical drawings

All dimensions in mm



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



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