

DD2710 Development drill

Technical Specification





Strong performance

Key features

Coverage	34 m ²
Drift size class (H x W)	2 500 mm x 2 500 mm
Hydraulic rock drill	RDX5 (20 kW)
Drill feed	TF500, 10 - 16 ft TFX6/12, TFX8/14
Boom	B26F
Hole length	3 440 mm (12' rods)
T-section width in turning	2 750 mm (TF512)
Transport width	1 600 mm
Transport height	2 070 mm / 2 750 mm
Transport length	10 065 mm (TF512)
Total weight	11 400 kg depending on options

Sandvik DD2710 is a compact and flexible single-boom electro-hydraulic jumbo for development drilling in narrow vein and mass mining as well as in tunneling, in cross sections up to 34 m².

Sandvik DD2710 is equipped with Sandvik RDX5 hydraulic rock drill, which delivers 20 kW of percussion power for high penetration rates and good rock tool service life in varying rock conditions.

The universal B26F boom is fitted with 360° feed rotation, automatic parallelism and a large and optimally shaped coverage, for fast and accurate face drilling and versatility.

The THC561 drilling control system enable drilling performance of the highest accuracy, ensuring maximum performance vs. customer requirements.

Sandvik DD2710 is mounted on a 4-wheel drive frame-steered and diesel powered carrier, which features a FOPS-approved safety canopy, and layout designed for good visibility and stability in tramming in small mining drifts and tunnels.

The operating and maintenance interface are designed for easy access, safe operation and all service points are accessible from ground level.



RDX5
Rock drill

B26F or B26SNV
hydraulic boom

Main benefits

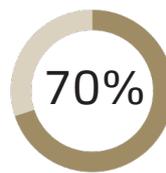
Optimized operations

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.



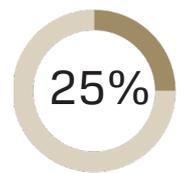
Simple and modular

Up to 70%* component modularity with 2710 series



Drilling applications

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



High drilling capacity

Up to 25%* higher penetration rate compare to equivalent peers



Efficient control system

The THC561 drilling control system with reaming hole selector 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.



Large drilling coverage

34 m² coverage without repositioning the machine boom with X,Y axis movements designed for easy and fast navigation from hole to hole



High productivity with RDX5 rock drill

RDX5 rock drill is known for its exceptional durability. The robustness is achieved by less pressurized seams and simple design with only two moving parts. The design of the rock drill enhances hydraulic efficiency while lessening wear on the parts.



Sandvik 365 Parts and Services

Proudly keeping you on track!

Sandvik 365 Parts & Services offer a variety of possibilities to enhance your Sandvik DD2710 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	210 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (with OMS80)
Rotation torque	400 Nm (with OMS80)
Hole size (drilling)	43 – 64 mm
Hole size (reaming)	76 – 127 mm
Recommended tools	
43 - 45 mm:	T38 – H35 – Alpha 340
48 - 51 mm:	T38 – H35 – Alpha 360 T38 – R39 – Alpha 360
Shank adapter	T38 (male)
Weight	210 kg

Drilling feed

Type of feed	TF510' (RDX5) Optional	TF512' (RDX5) Standard	TF514' (RDX5) Optional	TF516' (RDX5) Optional	TFX6/12 (RDX5) Optional	TFX8/14 (RDX5) Optional
Feed force (max.)	25 kN	25 kN				
Hole length (mm)	2 830	3 440	4 050	4 660	1 610 / 3 440	2 220 / 4 050
Rod length (mm)	3 090	3 700	4 305	4 915	1 830 / 3 700	2 440 / 4 270
Total length (mm)	4 690	5 300	5 910	6 520	3 285 / 5 115	4 150 / 5 980
Net weight (w/o rock drill)	470 kg	500 kg	530 kg	560 kg	620 kg	660 kg

Boom

Type of boom	B26F (TS2-259) Standard	B26S-NV (TS2-432) Versatile NV boom
Parallel coverage	29 m ² (parallel holes)	28.4 m ²
Parallelism	Automatic hydraulic	Automatic hydraulic
Boom extension	1 200 mm	1 200 mm
Feed extension	1 600 mm (TF feed)	1 450 mm (TFX feed)
Roll-over angle	360°	360°
Boom weight, net	1 850 kg	1 900 kg

Hydraulic system

Powerpack	HPP555 (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
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 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)
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 m ³ /min (7 bar)
Oil consumption	180 - 250 g/h
Air consumption	250 - 350 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: 96 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)

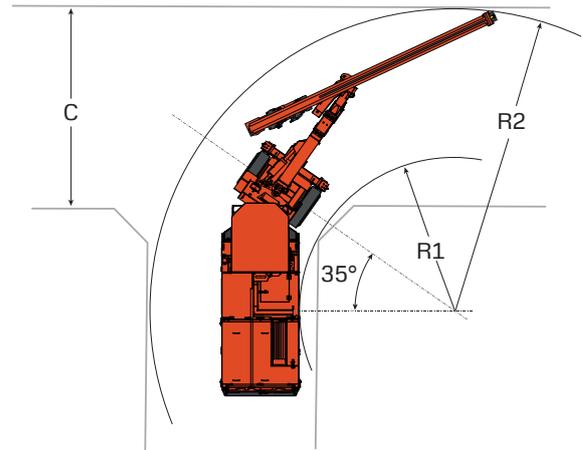
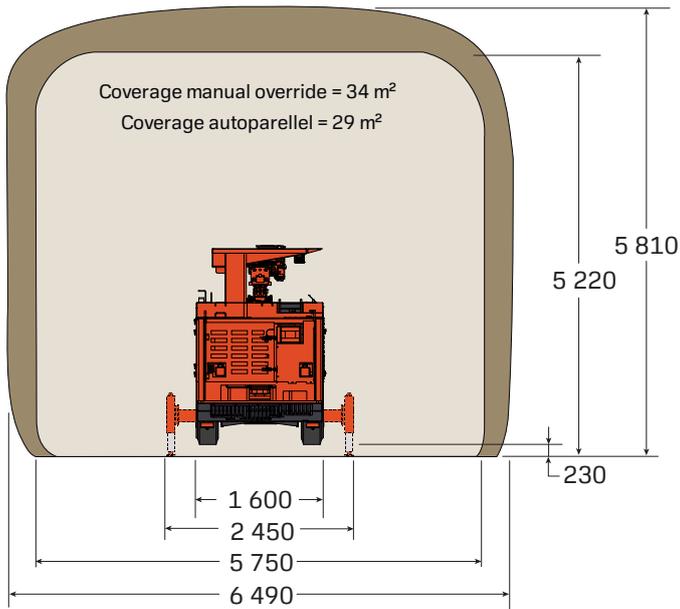
Optional features and packages

Rock drill	
*Type of rock drill	RDX5 (OMS125)
Power extractor	For RDX5 rock drill
Boom	
*Type of boom	B26S-NV boom instead of B26F
Feed	
*Feed length	TF500, 10', 14' or 16' rods
*Telescopic feed	TFX6/12 or TFX8/14 (fast return valve)
Rod retainer	TRR1 (+ 35 mm length of the feed)
Hydraulic system	
Type of powerpack	Electric main motor IE4
Drilling control system	
Type of control system	IBCF instead of THC561
AMS feed angle measurement	Feed swing and tilt displayed (B26F only)
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 m ³ /min at 7 bar, 18.5kW)
*Air mist flushing	External air and water supply Internal air and external water supply
1 x 60L air receiver	For end-of-hole 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	
*Powerpack	IE4 Electric motor
*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	RDX5
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: Harsh water	Advanced (TS2-049)
*Package: Country specific option	CE package

*) Replaces standard feature

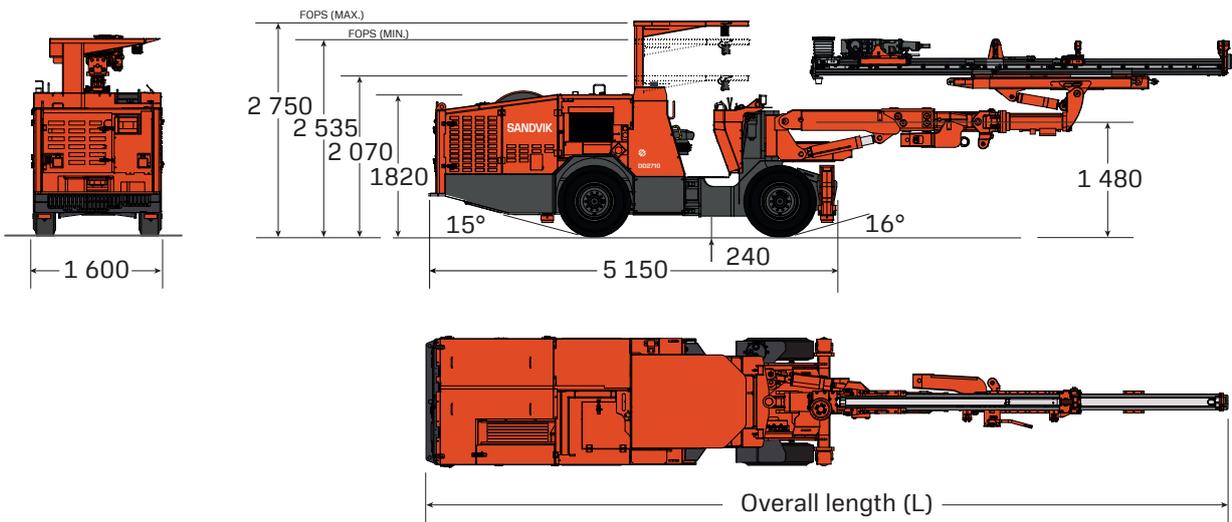
Technical drawings

All dimensions in mm



Type of feed	B26F + TF510 (Optional)	B26F + TF512 (Standard)	B26F + TF514 (Optional)	B26F + TF516 (Optional)	B26F + TFX6/12 (Optional)	B26F + TFX8/14 (Optional)
Overall length (L)	9 485 mm	10 065 mm	10 285 mm	11 275 mm	9 810 mm	9 810 mm
Turning radius (R1)	2 900 mm	2 900 mm				
Turning radius (R2)	4 980 mm	5 100 mm	5 235 mm	5 720 mm	4 930 mm	4 930 mm
Cornering (C)	2 630 mm	2 750 mm	2 880 mm	3 330 mm	2 510 mm	2 510 mm

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



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