



DD2711 NARROW VEIN DRILL

TECHNICAL SPECIFICATION

Our Sandvik DD2711 is a compact and flexible single-boom electro-hydraulic jumbo for mining development and construction tunneling for small and medium size tunnels with cross-section (Width x Height) minimum 2.7 m x 3.0 m and maximum 6.4 m x 5.8 m.

Sandvik versatile boom B26F is fitted with 360° feed rotation and delivers large and optimally shaped coverage with automatic parallelism for fast and accurate face drilling, while 20 kW of drilling percussion power is provided through Sandvik RDX5 rock drill, it delivers high penetration rates and good rock tool service life in varying rock conditions.

The Sandvik IBC direct hydraulic drilling control system with automatic functions allows the operator to concentrate safely during fast and accurate drilling in development blast holes length from 3.7 to 4.3m. Sandvik DD2711 is mounted on a 4-wheel drive frame-steered and diesel-powered carrier, which features a FOPS-approved safety canopy, and layout designed with a 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 on a ground level.

KEY FEATURES

Coverage area	34 m ²
Hydraulic rock drill	1 x RDX5 (20 kW)
Drill feed	1 x TF500-12' (12' rods)
Boom	1 x 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)
Operating weight	11 600 kg depending on option



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HYDRAULIC ROCK DRILL

Type of rock drill	RDX5 (TS2-433)
Percussion power	20 kW
Percussion pressure	Max. 220 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (with OMS 80)
Rotation torque	400 Nm (with OMS 80)
Hole diameter (face drilling)	43 - 64 mm
Hole diameter (reaming)	76 - 127 mm
Recommended rod	T38 - Hex 35 - R32 T38 - Hex 35 - Alpha 330 T38 - Hex 35 - R35
Shank adapter (male)	T38
Weight	210 kg
Filling device for accumulators	Specification TS2-430

DRILLING FEED

Type	TF500-12' TF500-14'		TFX6/12	TFX8/14
	Standard	Option	Option	Option
Feed force kN	Max. 25	Max. 25	Max. 25 kN	Max. 25 kN
Total length mm	5 270	5 880	3 540 / 5370	4 170 / 6 000
Rod length mm	3 700 (12')	4 305 (14')	1 830 (6') / 3 700 (12')	1 830 (6') / 3 700 (12')
Hole length mm	3 440	4 050	1 610 / 3 440	2 220 / 4 050
Weight (w/o hoses) kg	500	530	640	680

BOOM

Type of boom	B26F (TS2-259)
Face drilling coverage	29 m ² (parallel holes)
Parallelism	Automatic hydraulic
Boom extension	1 200 mm
Feed extension	1 600 mm
Boom weight (without hoses)	1 850 kg
Feed roll-over	360°

HYDRAULIC SYSTEM

Powerpack	HPP 555 (1 x 55 kW)
Operating principle	Direct hydraulic control
Percussion, rotation, feed and boom pump (triple pump)	65 cc + 35 cc + 16 cc (50 Hz) 55 cc + 30 cc + 14 cc (60 Hz)
Filtration (pressure / return)	10 µ / 10 µ
Oil tank volume	200 liters
Filling pump for hydraulic oil	Electric
Cooler for hydraulic oil	OW30 oil-to-water (30 kW)
Low oil level indication	Level indicator and automatic switch-off
Set of tools	Specification TS2-429

DRILLING CONTROL SYSTEM

Type of control system	IBC-F, hydraulic
Controls	Direct control Fully proportional Fast rock drill return movement
Drilling control	Feed / percussion control Anti-jamming system
Automatic cycle	Stop automatics (for TF-feed without rod retainer)
Fast and rock drill return	Manual
MySandvik insight	Remote monitoring system

ELECTRIC SYSTEM

Standard voltages	380 - 690 V (± 10%)
Frequency	50 - 60 Hz
Total installed 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 control	At the operator station
Phase relay protection	With warning light
Front lights (combined working and driving)	4 x 50 W LED (4 200 lm, 6 000 K)
Rear tramming lights	2 x 50 W LED (4 200 lm, 6 000 K)
Operator station light	1 x 5 W (24V)
Sealed AGM batteries	2 x 12 V, 80Ah

AIR AND WATER SYSTEM

Flushing of holes	By water
Water booster pump type	WBP1 (3 kW)
Water pump capacity	33 l/min at 15 bar (inlet pressure = 4 bar)
Water pump inlet pressure	2 - 5.4 bar
Flushing water pressure	10 - 15 bar
Shank lubrication device	SLU-1 (air / oil mist)
Air compressor	CTN10 (1.0 m ³ /min, 7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill 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: 102 dB(A) Emitted: 124 dB(A)
Operator's seat	Ergonomic T-back seat

CARRIER

Type of carrier	MERCURY (frame steered)
Carrier articulation	± 35°
Rear axle oscillation	± 6°
Ground clearance	295 mm
Diesel engine	Deutz TCD3.6 L4EDG74 kW, Tier 4i, Stage IIIB
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Wheel motors	4 x radial piston
Tires	315/85 x 15
Service brakes	Hydrostatic and positive braking
Parking and emergency brakes	SAHR fail safe type wet disc brakes
Tramming speed	8 km/h (Horizontal) 4 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 15° / 5° (according to EN 16228-2)
Fuel tank	60 liters
Carrier stabilization	2 x Telescopic (front) 2 x Vertical (rear)
Brake release	Manual hand pump
Centralized greasing points	Carrier
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) 2 x CD of manuals (PDF files)

OPTIONAL FEATURES AND PACKAGES**Boom**

*Type of boom	B26S-NV instead of B26F (TS2-156)
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Drilling feed

*Feed length	TF514 (14' rods)
*Telescopic feed	TFX6/12, TFX8/14
Rod retainer	TRR1 incl. safety wire, add 35 mm length of the feed

Cleaning system

HP system with reel	Up to 180 bar (TS2-343)
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Electric system

Multi-voltage	1 000 V (50 / 60 Hz), with transformer
*Electric cables	Specification TS2-121
Ground fault and overcurrent protection	VYK
Drilling and boom movement inhibition	2 x switches and 1 x chain guard
Amber flashing light	LED (24 V)
Battery jump start	Optional
Proximity interface	PDS / VDS system (TS2-381)

Air and water system

*Air mist flushing kit	Specification TS2-285
*End-of-hole flushing	With 1 x 60L air receiver requires CTN16 air compressor
Air mine connection	IP5 air cleaner
*Air compressor	CTN16, 1.6 m³/min (7 bar)
Water hose with hooks	32 mm (1¼"), 80 meters

Greasing system

Manual system	Greasing unit with pump, reel and nozzle
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Operator's safety canopy

Operator protection	Safety grill
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Fire suppression system

Spare hand held fire extinguisher	1 x 6 kg Type ABC
Manual system	Ansul, 6 nozzles (Spec. 5-9800)
Auto. fire suppression system	Sandvik Eclipse™

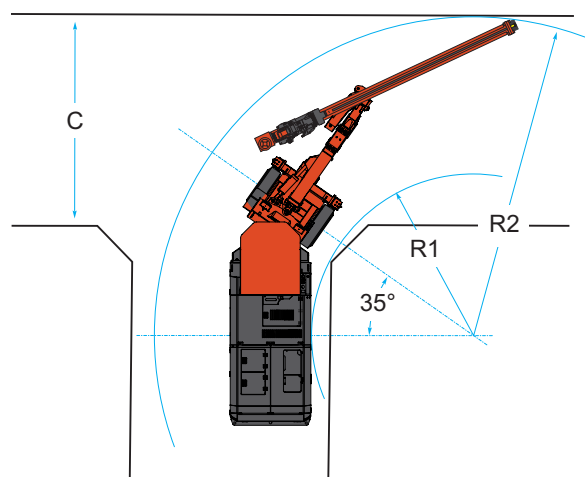
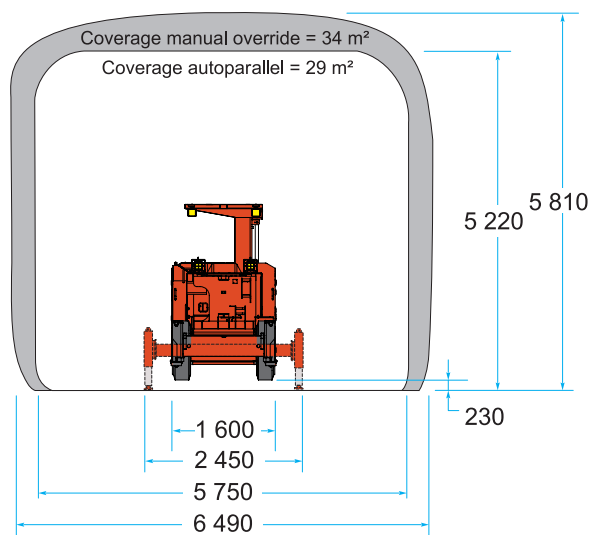
Carrier

*Foam filled tires	4 pcs
Wheel chocks and holders	2 Sets
Speedometer	Control tramming speed

Extra items

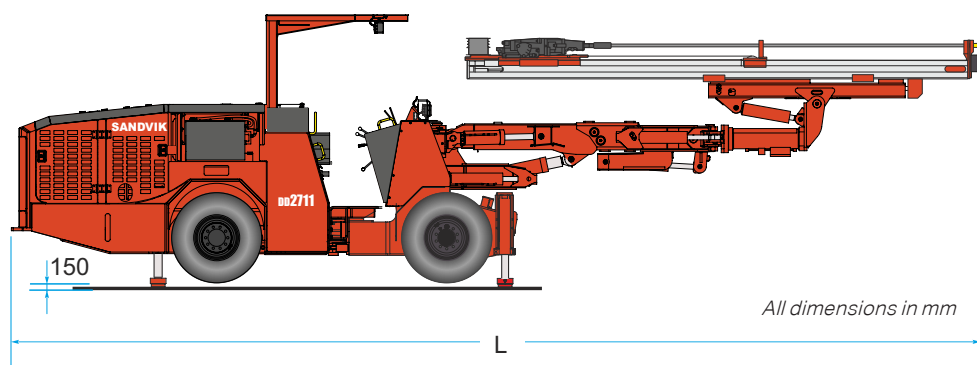
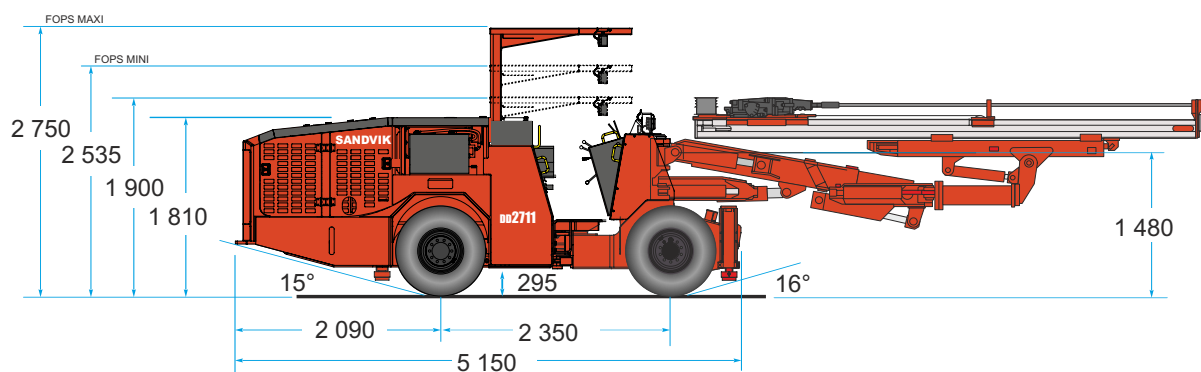
Berg plug and socket	
Spare rock drill	RDX5
Spare wheel assembly	Air or foam filled tires
Special tools for rock drill	Field tool set (TS2-434) Complete tool set (TS2-435)
Warranty extension	One year (excl. Kazakhstan)
Documentation	Extra manual (printed)
Package: Country specific options	LAM, CIS, SAS
*Package: Harsh water	Advanced (TS2-049)
*Package: Arctic	For extreme conditions
*Package: Dry drilling	(N/A with 1 000V) CTN16 with 1 x 60l air receiver, air / oil cooler, dust hood on feed, readiness for hydraulic supply. Dust collector is not supplied.

**) Replaces standard feature*



All dimensions in mm

Type of feed	R1	R2	C	L
TF500-12	2 900 mm	5 100 mm	2 750 mm	10 065 mm
TF500-14	2 900 mm	5 235 mm	2 880 mm	10 285 mm
TFX6/12	2 900 mm	4 930 mm	2 510 mm	9 810 mm
TFX8/14	2 900 mm	4 930 mm	2 510 mm	9 810 mm



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4. SANDVIK DD2711 - DEVELOPMENT DRILL