



DD320S DEVELOPMENT DRILL

TECHNICAL SPECIFICATION

Sandvik DD320S is a compact two-boom jumbo for demanding conditions and multiple applications. The jumbo is capable of face drilling, cross-cut drilling and bolt hole drilling.

The various options of the drill rig make it suitable for a range of conditions and tasks. The proven and robust B26XLSF boom provides coverage of 41.4 m². A selection of fixed and telescopic feeds are available for a variety of applications.

The RDX5 rock drills deliver superior performance with high consumable life, lowering operating costs and giving long service interval.

Sandvik DD320S offers a new look and improved serviceability and usability over the predecessor Sandvik DD320.

KEY FEATURES

Coverage area	41.4 m ² (8 690 x 6 730 mm)
Hydraulic rock drills	2 x RDX5, 20 kW
Drilling feeds	2 x TF500-12, 12 - 16 ft
Booms	2 x B26XLSF
Control system	2 x THC560
Hole length	Up to 4 660 mm
Drift size class (H x W)	4 000 mm x 4 000 mm
Turning width (T-section)	3 700 mm with TF500-12 feed
Transport width	2 150 mm
Transport height	2 350 mm / 3 200 mm
Transport length	12 200 mm with TF500-12 feed
Total weight	20 910 kg depending on options



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 OMS80)
Rotation torque	400 Nm (with OMS80)
Hole size (drifting)	43 - 64 mm
Hole size (cut hole)	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
Length	955 mm
Profile height	87 mm

DRILLING FEED

Type of feed	TF500-12' Standard	TF500-14' Optional	TF500-16' Optional
Feed force	Max. 25 kN	Max. 25 kN	Max. 25 kN
Total length	5 270 mm	5 880 mm	6 490 mm
Hole length	3 440 mm	4 050 mm	4 660 mm
Rod length	3 700 mm	4 305 mm	4 915 mm
Net weight	500 kg	530 kg	560 kg

BOOM

Type of boom	B26XLSF (TS2-260)
Face drilling coverage	41.4 m² (parallel holes)
Parallelism	Automatic hydraulic
Boom extension	1 700 mm
Feed extension	1 600 mm
Boom weight (without hoses)	1 960 kg
Feed rotation angle (roll-over)	360°

HYDRAULIC SYSTEM

Powerpack	2 x HPP555 (55 kW)
Filtration (pressure / return)	20 µ / 10 µ
Oil tank volume	270 liters (drilling)
Oil tank filling pump	Manual
Cooler for hydraulic oil	OW30 oil-to-water (2 x 30 kW)

DRILLING CONTROL SYSTEM

Type of control system	THC560 (TS2-361)
Operating principle	Hydraulic control
Manual boom control	Direct control Fully proportional Hydraulic parallelism
Drilling control	Manual collaring Feed / percussion control Anti-jamming system Flushing control
Automatic cycle	Stop and return automatics

ELECTRIC SYSTEM

Standard voltage	380 - 690 V (± 10%)
Total installed power	135 kW
Main switch gear	MSE 20
IP classification	Specification TS2-132
Starting method	Star delta 380 V - 690 V Direct online 575 V
Automatic cable reel	TCR3E with spooling system
Cable reel control	Operator station only
Batteries	2 x 12 V, 145 Ah
Front and rear lights (combined working and driving)	8 x 50 W LED (4 200 lm, 6 000 K)
Parking rear brake / park lights	2 x Red LED

AIR AND WATER SYSTEM

Flushing of holes	By water
Water booster pump	WBP-1010
Water pump capacity	150 l/min
Water pump inlet pressure	2 bar (Min.)
Flushing water pressure	10 - 15 bar
Shank lubrication device	SLU2 (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

OPERATOR'S SAFETY CANOPY

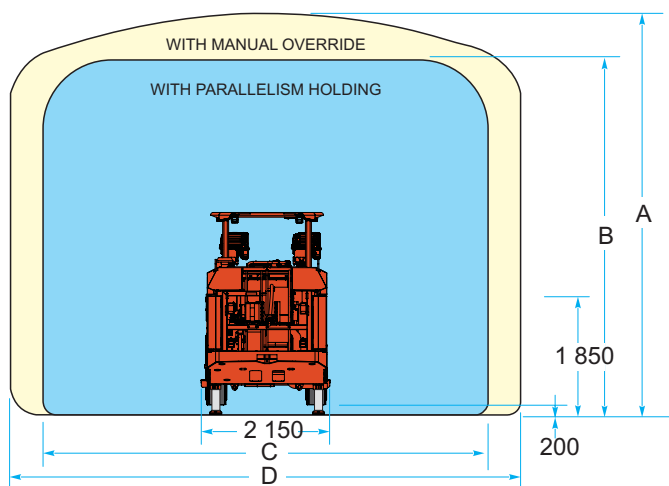
Canopy certification	FOPS (ISO 3449)
Unit height in tramming	3 200 mm
Operation	Standing drilling, seated tramming
Operator's seat	Seat with safety belt
Sound pressure level EN 16228	Operator station: 100 dB(A)

CARRIER

Type of carrier	NC7S (frame-steered)
Carrier articulation	± 40°
Rear axle oscillation	± 10°
Ground clearance	320 mm
Diesel engine	Cummins QSB 4.5, 124 kW Stage IIIA
Exhaust catalyzer	Standard
Transmission	Hydrostatic
Axles	Spicer
Tires	12.00-20
Service brakes	SAHR type, fail save wet disc brakes
Parking and emergency brakes	SAHR type, fail save wet disc brakes
Tramming speed	12,5 km/h (Horizontal) 6,5 km/h (14%=1:7=8°)
Gradeability / sideways tilt	Max. 15° / 5° (according to EN 16228-2)
Rod rack on carrier side	For 10 - 16 ft rods and two shank adapters
Fuel tank	140 liters
Carrier stabilization	2 x Vertical (front) 2 x Vertical (rear)
Hand held fire extinguisher	1 x 9 kg (type ABC)
Tramming alarm	Standard
Knowledge Box™	Connectivity solution (TS2-535)
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 Toolman USB key

OPTIONAL FEATURES AND PACKAGES

Boom	
*Type of boom	B26XLS-NV instead of B26XLSF
Drilling feed	
*Feed length	14', 16'
*Telescopic feed	TFX6/12, TFX8/14
Hydraulic system	
*Oil tank filling pump	Manual
Drilling control system	
Boom movement isolation switch	At each side
Access detector	Mandatory in Europe (TS2-211)
Electric system	
*Electric cable	Specification TS2-121
Ground fault and overcurrent protection	VYK (excluding Canada / USA)
Auxiliary outlet	1 x 110 V or 1 x 230 V, 16 A
Extra working light	2 x 50 W LED (4 200 lm, 6 000 K)
Amber flashing light	LED (24 V)
Air and water system	
Flushing flow control	2 booms
*Manual end of hole air flushing	Including CT28 air compressor
Water hose reel with water hose	THR2.5E with 38 mm (1 ½"), 65 m
Cleaning system	
HP system with reel	Up to 180 bar (TS2-343)
Greasing systems	
Centralized greasing points	Specification TS2-463
Manual system	Greasing unit with pump, reel and nozzle (TS2-463)
Operator's safety cabin / canopy	
*Safety cabin	FOPS / ROPS (ISO 3449 / 3471)
Rotating seat	For drilling and tramming
Fire suppression system	
Manual or automatic system	Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system	Sandvik Eclipse™ (TS2-461)
Carrier	
*Diesel engine	B4.5, 129 kW, Tier 4F, Stage V
*Foam filled tires	4 pcs
Wheel chocks and holders	2 Sets
Rod rack and shank holder	On carrier side
Extra items	
Berg plug and socket	250 A
Spare rock drill	RDX5
Spare wheel assembly	Air or foam filled tire
Special tools for rock drill	Field tool set (TS2-434) Complete tool set (TS2-435)
Warranty extension	One year (excl. Kazakhstan)
Documentation	Extra paper, CATbase, Link one manuals
*Package: Country specific options	LAM, CIS, TUR, US/CAN, SAS package
*Package: Harsh water	Basic or advanced (TS2-049)
*) Replaces standard feature	



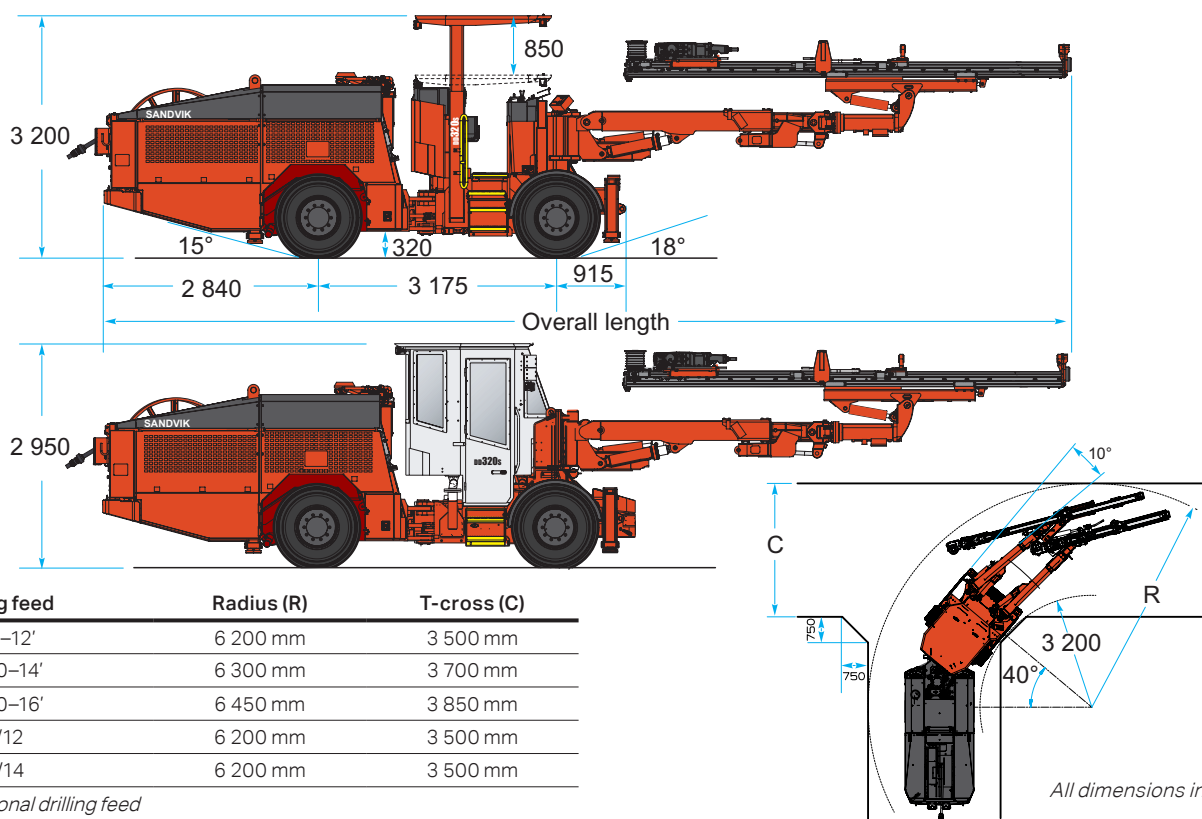
COVERAGES

Type of boom		A	B	C	D
*B26F	mm	5 980	5 280	6 710	7 690
B26XLSF	mm	6 730	6 030	7 730	8 690
*B26XLS-NV	mm	6 730	6 030	8 000	9 350

*) Optional boom

Overall length		TF512	TF514	TF516	TFX6/12	TFX8/14
*B26F	mm	12 100	12 300	12 700	11 700	11 700
B26XLSF	mm	12 650	12 850	13 300	12 300	12 300
*B26XLS-NV	mm	13 300	13 500	13 950	12 900	12 900

*) Optional boom



Drilling feed	Radius (R)	T-cross (C)
TF500-12'	6 200 mm	3 500 mm
*TF500-14'	6 300 mm	3 700 mm
*TF500-16'	6 450 mm	3 850 mm
*TFX6/12	6 200 mm	3 500 mm
*TFX8/14	6 200 mm	3 500 mm

*) Optional drilling feed

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