

DD211L UNDERGROUND DRILL RIG

TECHNICAL SPECIFICATION

DD211L is a low-profile single-boom electro-hydraulic drill designed to work in excavations with headroom as low as 1.7 meters.

The robust universal boom has a large optimum shaped coverage, 360-degrees rotation and full automatic parallelism for fast and easy face drilling. The boom can also be used for cross-cutting. The hose layout is specifically designed to maximize protection in low headings.

The exceptional 'V'-shape layout is designed for good visibility and balance, which, combined with the powerful four-wheel-drive articulated carrier, ensures fast and safe manoeuvring even in low headroom conditions.

The drilling system allows high drilling performance with good drill steel economy and high machine reliability. The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

All the service points are well-protected but easy to access.

KEY FEATURES

Coverage area	36 m ² (auto-parallel)
Hydraulic rock drill	1 x HLX5, 20 kW
Drilling feed	1 x TF512
Boom	1 x B26XLS-NV
Hole length	Up to 4 660 mm
Minimum drift size (H x W)	2 500 mm x 2 500 mm
T-section width in turning	4 000 mm
Transport width	2 260 mm
Transport height	1 775 mm / 1 950 mm
Transport length	13 000 mm
Total weight	14 000 kg depending on options



HYDRAULIC ROCK DRILL

Type of rock drill	HLX5 (TS2-232)
Percussion power	20 kW
Percussion pressure	Max. 220 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (with OMS80)
Rotation torque	400Nm (with OMS80)
Hole size (drifting)	43 - 64 mm
Hole size (cuthole)	76 - 127 mm
Recommended rod	T38 - Hex 35 - R32 T38 - Hex 35 - Alpha 330 T38 - Hex 35 - R35
Shank adapter	T38 /R32 /T45(male)
Weight	210 kg
Length	960 mm
Profile height	90 mm
Inflating device for accumulator	Specification 2-9110

DRILLING FEED

Type of feed	Feed force	Total length	Hole length	Rod length	Net weight
TF508	25 kN	4 050 mm	2 220 mm	2 480 mm (8')	440 kg
TF510	25 kN	4 660 mm	2 830 mm	3 090 mm (10')	470 kg
TF512	25 kN	5 270 mm	3 440 mm	3 700 mm (12')	500 kg
TF514	25 kN	5 880 mm	4 050 mm	4 305 mm (14')	530 kg
TF516	25 kN	6 490 mm	4 660 mm	4 915 mm (16')	560 kg

BOOM

Type of boom	B26XLS-NV (TS2-257)
Parallel coverage	36 m ²
Parallelism	Automatic hydraulic
Boom extension	1 700 mm
Feed extension	1 600 mm
Boom weight, net	2 010 kg
Roll-over angle	360°

HYDRAULIC SYSTEM

Powerpack	HPP555 (55kW)
Filtration (pressure / return)	20 µ / 10 µ
Oil tank volume	160 liters (drilling)
Filling pump for hydraulic oil	Manual
Oil cooler (water actuated)	1 x OW30 (30 kW)
Hydraulic low level indicator	Stop drilling when the oil level in drilling tank is low
Safety shutdown	Low water pressure, low air pressure, low oil level
Oil drilling safety temperature	Above 75 °C
Tool set for hydraulic adjustment	Specification 2-9100

DRILLING CONTROL SYSTEM

Type of control system	THC561 (5-1020)
Operating principle	Hydraulic control
Manual boom control	Direct control Fully proportional Hydraulic parallelism
Drilling control	Adjustable collaring power Feed / percussion control Anti-jamming system
Automatic cycle	Stop and return automatics
Drilling reaming selector	Two rotation speeds can be preset
Drilling and boom movement inhibition	2 x switches and 1 x door interlock

ELECTRIC SYSTEM

Standard voltage	380 - 575 V (± 10%), 50 Hz
Total installed power	70 kW
Main switch gear	MSE-1JH
IP classification	Specification TS2-132
Starting method	Star delta starter 380 - 575 V
Automatic cable reel	TCR LPII with spooling system
Cable reel control	Operator station and rear of unit
Cable reel end switch	Automatic brake application before end of cable
Proximity detection ready	1 x power cable available in the operator compartment
Battery switch	1 x double pole lockable switch
Front working lights (combined working and driving)	2 x 35 W HID and 4 x 70 W (24 V)
Rear driving lights	2 x 70 W (24 V)
Amber flashing light	LED (24 V)
Operator station light	Standard
Sealed AGM batteries	2 x 12 V, 95 Ah

AIR AND WATER SYSTEM

Flushing of holes	By water
Water booster pump	WBP1 (4kW)
Water pump capacity	33 l/min at 15 bar (input 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	CTN16 (1.6 m ³ /min at 7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 l/min
Manual air flushing	1 x 60 liters air receiver

OPERATOR'S SAFETY CANOPY

Canopy certification	FOPS /ROPS (ISO 3449)
Unit height in tramming	High position : 1 950 mm Low position : 1 775 mm
Operation	Seated operations
Operator's seat	Ergonomic T-back seat
Sound pressure level EN 791	Operator station: 98 dB(A)
Fault finding device	QN panel

CARRIER

Type of carrier	TCLP II (frame steered)
Carrier articulation	± 43°
Rear axle oscillation	± 15°
Ground clearance	300 mm
Diesel engine	Deutz BF4M2012 (74 kW, Tier 2)
Diesel engine control	Electronic, EMR
Exhaust catalyzer	Standard
Transmission	Hydrostatic, automotive
Wheel motor	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
Neutral braking	Brakes applied when neutral position activated
Tramming speed	12 km/h (Horizontal) 5 km/h (14%=1:7=8°)
Gradeability /sideways tilt	Max. 15° / 15°
Fuel tank	60 liters
Tramming oil tank	50 liters
Carrier stabilization	Vertical (front and rear)
Brake release	Manual pump
Tramming alarm	Standard
Wheel chocks and holder	2 pieces
Document box	A3 format
Access point	Yellow reflective (stair and handle)
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) PDF manuals

OPTIONAL FEATURES AND PACKAGES

Drilling feed	
*Feed lengths	8', 10', 14', 16'
*Telescopic feed	TFX6/12, TFX8/14
Boom	
*Type of boom	B26S-NV boom B26XLF boom
Hydraulic system	
*Filling pump for hydraulic oil	Electric
Additional tramming HP filter	10 micron
Electric system	
Electric cabinet	Protection door
*Starting method	Soft starter 380 - 575 V only
Electric cables	Specification TS2-121
Ground fault and overcurrent protection	VYK
Indicator light for jacks up	Sensors in the jacks
Electric power interlock	Powerpack starts only when jacks are on ground
Dewatering pump outlet readiness	Site voltage 380 - 575 V (Max. 11 kW)
*Extra lighting halogen	4 x 70 W at canopy + search light
*LED lights package	8 x 43 W LED, excl. additional lights
*Extra lighting LED	4 x 43 W LED at the canopy + search light

OPTIONAL FEATURES AND PACKAGES

Air and water system	
*Shank lubrication device	KVL10-1 (air/oil mist) with low level indicator
Air mist flushing	External water / internal air, CTN16 + 2 x 60 liters air receivers
Air mine connection	With IP5 air cleaner
End of hole air flushing	2 x 60 liters air receivers
Pressurized air outlet	Hose and reel for accessories
Air / water hooks	2 hooks
Water hose with hooks	32 mm (1 ¼"), 80 meters 38 mm (1 ½"), 60 meters
Operator's safety canopy	
Integral front screen protection	Buddy Guard™ (TS2-062)
Cleaning system	
HP system without reel	Up to 180 bar
HP system with reel	Up to 180 bar
Greasing systems	
Centralized greasing points	Carrier
Manual system	Greasing gun and cartridge with hose reel
Fire suppression system	
Handheld fire extinguisher	1 or 2 x 6 kg Type ABC 2 x 9 kg Type ABC 1 x 11 kg Type ABC
Manual or automatic system	Ansul, 6 nozzles
Carrier	
*Foam filled tires	4 pcs Auto brake application on default
ABA brakes	Fuel and oil tanks
*Lockable filler cap	
Extra items	
Gate end box	Berg plug /Berg base
Spare rock drill	
Spare wheel assembly	HLX5
Special tools for rock drill	315/85x 15 or foam filled tire
Documentation	
Package: Country specific options	Extra paper, PDF manuals
Package: Extra safety	SAS (Specification TS2-155)
Package: *Harshwater	Specification TS2-275 Basic or advanced (TS2-049)

*) replaces standard feature