TECHNICAL SPECIFICATION

SANDVIK DD211 UNDERGROUND DRILL RIG



Sandvik DD211 is a single boom electro hydraulic drillrig for productive drilling in narrow vein applications.

The proven hydraulic controls enable accurate drilling performance with efficient control.

Sandvik DD211 is equiped with CF Feed 12ft. This feed is designed for optimum operation and good durability.

The SB20 boom is a boom for fast and accurate drilling in drifting and tunneling of 26 m² cross sections.

The DD211 can be equipped with CF feed 10ft and 14ft lenghts and CFX feed.

The RD314 rockdrill is a high efficiency rockdrill with powerful drilling performance and reduced drillsteel consumption.



HYDRAULIC ROCK DRIL	L	
Rock drill	RD314	
Percussion Power		14 kW
Percussion Pressure	Max. 190 bar	
Percussion rate		110 Hz
Rotation Speed	Max. 520 rpm (OMS 100)	
Rotation torque	Max. 400 Nm (OMS100)	
Hole size (drifting)	33 - 51 mm	1.3 - 2 in
Hole size (cut hole)	64 -89 mm	2.5 - 3.5 in
Shank adapter	(Male) 38 mm / R32 / T35 / T38	
Weight	115 kg	253.5 lb
Length	559 mm	22 in
Profile height	95 mm	3.7 in
Shank lubrication device	Air / oil mist, SLU	
Shank lubrication compressor	CT10, 1m³/min (7 bar)	
Air consumption		150-250 l/min
Oil consumption		100 - 200 g/h

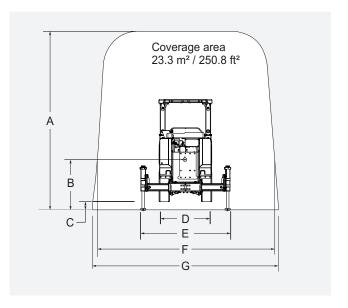
SB20
20 NV otions)
'9.9 ft²
draulic
35.4 in
748 lb
358°

FEED		
Feed	(CF300-12' Cylinder - wire rope
Feed force		Max. 25kN
Feed extension	1350 mm	4.4 ft
CF Feed lengths*		10', 14'
Telescopic feed*		CFX6/12

FEED DIMENSIONS					
Feed (CF300	Total Length	Hole length	Rod length	Net Weight
10 ft*		4170 mm 164.1 in	2840 mm 111.8 in	3090 mm 121.6 in	460 kg 1014.1lb
12 ft		4780 mm 188.2 in	3450 mm 135.8 in	3700 mm 145.7 in	490 kg 1080.2lb
14 ft*		5390 mm 212.2 in	4070 mm 160.2 in	4305 mm 169.5 in	520 kg 1146.4
*.	Extended	4765 mm 187.6 in	3417 mm 134.5 in	3660 mm 144.1 in	505 kg 1113 lb
CFX6/12*	Retracted	2930 mm 115.3 in	1587 mm 62.5 in	1830 mm 72 in	505 kg 1113 lb
J	Rod handler	2930 mm 115.3 in	2807 mm 110.5 in	1830+1220 mm 72+48 in	645 kg 1422 lb

DRILLING OPTIONS	
Single rod handler including FCC2 rod retainer**	CFX only

COVERAGE AREA		
Α	4730 mm	186.2 in
B (center of boom)	1330 mm	52.4 in
С	220 mm	8.7 in
D	1400 mm	55.1 in
E	2352 mm	92.6 in
F	4918 mm	193.6 in
G	5154 mm	202.9 in



 $^{{}^{\}star} \text{Alternative options features/components} \quad {}^{\star\star} \text{ Additional options features/components}$

HYDRAULIC SYST	EM
Powerpack	HPP 355 (55kW)
Percussion pump	100 cc (variable)
Rotation pump	45 cc (gear)
Filtration size	20 micron (pressure)
	10 micron (return)
Oil tank volume	160 litres (drilling)
Tank filling	Manual pump
Tank filling*	Electric pump
Oil cooler	Water cooled. Cooling capacity 1 x 30 kW
Biodegradable oils*	Shell Naturelle HFE46/HFE68

CONTROL SYSTEM	
Туре	THC561, Hydraulic
Manual boom control	Direct control
	Fully proportional
	Hydraulic parallelism
Drilling Control	Feed/percussion control
Automatic cycle	Stop and return automatics
Constant speed drilling**	Replaces feed / percussion control
Automatic cycle	Hydraulic parallelis Feed/percussion contr Stop and return automatic

CLEANING SYSTEM	
High pressure cleaning system without reel**	Max. 180 bar

GREASING SYSTEMS AND OPTIONS	
Greasing unit with pump, reel and nozzle**	Manual
Automatic greasing pump**	Carrier

ELECTRIC SYSTEM AND OPTIONS		
Total input power	70kW	
Main switch	MSE10	
Standard voltages	380-690 VAC	
Optional voltage*	1000 VAC, 50 Hz	
Ctarting mathed	Star delta starter, 380VAC-550VAC	
Starting method	Direct on line* 660VAC-1000VAC	
Voltage fluctuation	± 10%	
Automatic cable reel	TCR1	
Cable reel control (in & Out)	Operator station	
	Remote control at rear machine**	
Electric cable rubber or PUR**	Depending on voltage (See spec 5-4100)	
Ground fault and overcurrent protection**	VYK	
Auxiliary electrical plug for external power**	Supply voltage	
Sealed AGM batteries**	2 x 12V, 50Ah	
Sensors in the jacks**	Indicator light for jacks up	
Pressure switches on the jacks**	Indicator light for jacks down	
Battery jump start**		

FLUSHING SYSTEM AN	ND OPTIONS	
Flushing		Water
Flushing flow supervision		Standard
Water pump type		WBPI
Water pump capacity		30 l/min
Water pump inlet pressure	2 bar (Min.)	
Flushing water pressure	10 - 20 bar	
Water flushing with air cleaning of holes	External water supply	
all cleaning of floies	External or internal air supply (1 x 60l air receiver + IP5 + mine air inlet)	
Air mist flushing**	External air and water supply	
Mine air connection (incl.flushing flow supervisio		air connection with IP5 flow supervision for air)
Water hose**	38 mm , 10 m	1" ½ , 32.8 ft

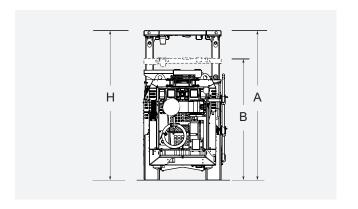
FIRE SUPPRESSION SYSTEM AND OPTIONS		
Hand held fire extinguisher**	2 pcs, Type ABC	
Manual fire suppression system**	6 nozzles	
Automatic fire suppression system**	6 nozzles	

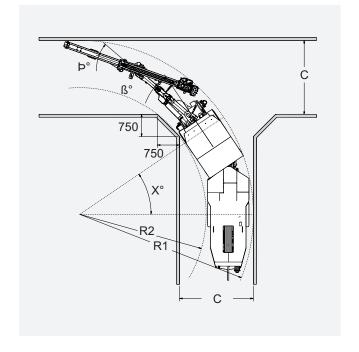
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TRAMMING	
Tramming Speed	Horizontal: 7 km/h
	14% = 1:7 = 8° 4.5 km/h
Gradeability / Inclination	Max. 15° / 5°

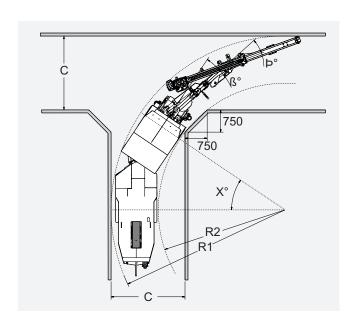
TRAMMING DIMENSIONS	5	
FOPS/ROPS certified position*		Н
A (High position)	2700 mm	106.3 in
B (Low position)	2500 mm	98.4 in

Cornering Left						
Feed	R1	R2	Χ°	Þ°	ß°	Cornering
-12 ft	5850 mm	4250 mm	34°	22°	15.5°	2500 mm
CF300-12	119.17 in	246 in				161.77 in





Cornering Right						
Feed	R1	R2	Χ°	Þ°	ß°	Cornering
-12 ft	5850 mm	4250 mm	34°	22°	14°	2500 mm
CF300-12 ft	119.17 in	246 in				161.77 in



^{*}Alternative options features/components $\quad {}^{\star\star}$ Additional options features/components

OPERATOR STATION	
Safety canopy	FOPS (ISO3449) /ROPS (ISO3471)
Operation	Standing drilling, seated tramming
Sound pressure level according to EN791	Operator station: 100 db(A) Emitted: 127 db(A)
Seat	Ergonomic, adjustable for tramming including seat belt
Reversing alarm	Standard

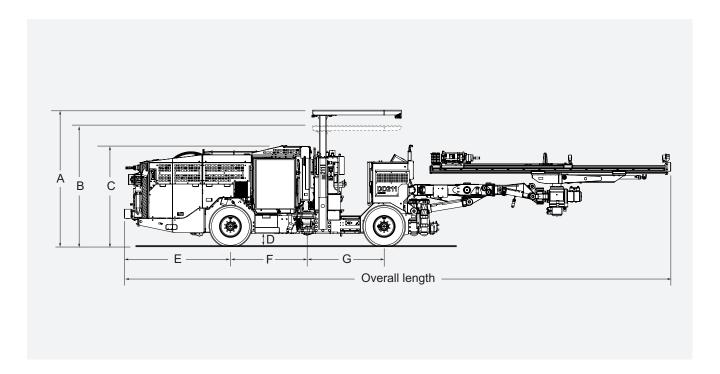
LIGHTS	
Front working lights	2 x 35W HID (24V)
Front driving lights	2 x 70 W (24V)
Rear driving lights	2 x 70 W (24V)
Amber strobe light	Flashing (24V)
Staircase light	Standard
Directional light**	Rear lights change according to tramming direction
Extra working light**	2 x 35W HID (24V)

PACKAGES	
Regional packages**	LAM, AUS, USC, CIS
Harsh water packages**	Basic (see spec sheet TS2-049)
Antifreezing**	Block heater for engine Hydraulic oil tank heater Water circuit flushing Fuel filter heater

CARRIER			
Carrier		NC4	
Carrier type	Wheel m	nounted, frame steering	
Frame steering		± 34°	
Rear oscillation		± 10°	
Ground clearance	250 mm	9.8 in	
Diesel Engine	Deutz	D914L04, 55kW. Tier 3	
Transmission	Hydrostatic, automotive		
Wheel motor	Hydraulic with combined brake		
Tyres	300-15		
Tyres*	Foam filled tyres		
Service Brakes	Hydrostatic and positive braking		
Parking and Emergency Brakes	Hydraulic oil immersed multiple disc brakes on wheel motors		
Fuel tank		80 liters	
Hydraulic jacks		Telescopic (front)	
		Vertical (rear)	
Brake release		Manual hand pump	
Total weight Depending on option	Arround 13 000 kg	Arround 28660 lb	
Fast filling systems**		Complete	
Wheel chocks and holder**		2 pieces	

EXTRA ITEMS	
Spare rock drill**	
Spare wheel assembly**	Standard or foam filled
Special tools for rock drill**	
Documentation**	Extra manuals

 $^{{}^{\}star} \text{Alternative options features/components} \quad {}^{\star\star} \text{ Additional options features/components}$



MACHINE DIMENSIONS		
Α	2700 mm	106.3 in
В	2500 mm	98.4 in
С	1980 mm	77.9 in
D	250 mm	9.8 in
Е	1920 mm	75.6 in
F	1525 mm	60 in
G	1525 mm	60 in

OVERALL LENGTH		
CF300-12'	10 700 mm	35.10 ft

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