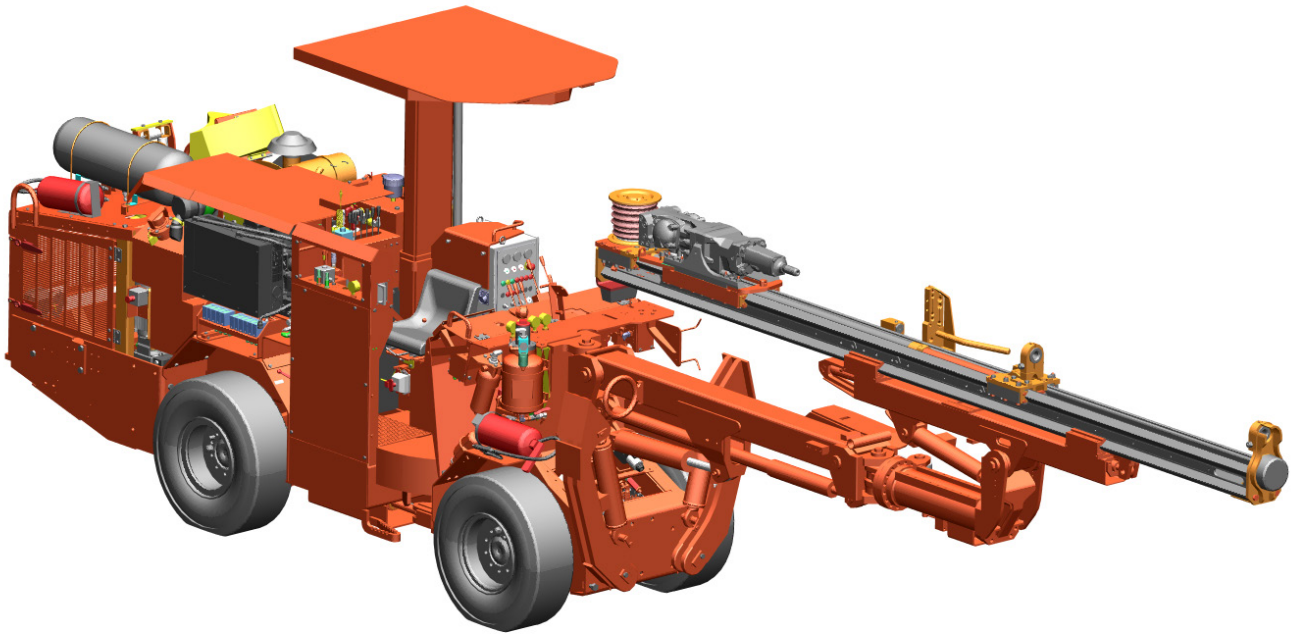


# SANDVIK DD210 DEVELOPMENT DRILL

TECHNICAL SPECIFICATION



Sandvik DD210 is a compact and flexible single-boom electro-hydraulic jumbo for tunneling and mining development in cross sections up to 24 m<sup>2</sup>.

The robust universal boom has a large optimum shaped coverage, 360-degree rotation and full automatic parallelism for fast, easy feed positioning and accurate face drilling.

The compact jumbo layout is designed for good visibility and good stability. The heavy duty and articulated carrier, with powerful four-wheel-drive transmission, ensures stable and safe manoeuvring in small mining drifts or construction tunnels.

The modern, powerful hydraulic rock drill and the smooth drilling controls system allow high drilling performance with good drill steel economy and high machine reliability.

The operating environment and incorporated automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

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



## HYDRAULIC ROCK DRILL

Rock drill	Sandvik HLX5 (see spec sheet 2-1852)	
Percussion power	20 kW	
Percussion pressure	Max. 220 bar	
Percussion rate	67 Hz	
Rotation speed	Max. 250 rpm	
Rotation torque	780 Nm (with OMS160)	
Hole size (drifting)	43 - 64 mm	1 23/32 in - 2 17/32 in
Hole size (cut hole)	76 - 127 mm	3 in - 5 in
Recommended rod	R32	
Shank adapter	R38 / T38	
Weight	210 kg	463 lb
Length	955 mm	37.6 in
Profile height	87 mm	3.4 in
Shank lubrication device	Air / oil mist, KVL10-1	
Air consumption	250 - 350 l/min	
Oil consumption	180 - 250 g/h	

## BOOM

Boom type	Sandvik B14F (see spec sheet 4-100S)	
Parallel coverage	24 m <sup>2</sup>	258 ft <sup>2</sup>
Parallelism	Automatic hydraulic	
Boom weight, net	1,500 kg	3,307 lb
Roll-over angle	360°	

## FEED

Feed type	Sandvik TF500-12' (see spec sheet 3-1400)	
Feed force	Max. 25 kN	
Feed extension	2,000 mm	78.7 in

## FEED DIMENSIONS

Feed	Total length (min/max)	Hole length (min/max)	Rod length (min/max)	Net weight
TF500-8'	4,050 mm	2,220 mm	2,480 mm	440 kg
	159.5 in	87.4 in	97.6 in	970 lb
TF500-10'	4,660 mm	2,830 mm	3,090 mm	470 kg
	183.4 in	111.4 in	121.6 in	1,036 lb
TF500-12'	5,270 mm	3,440 mm	3,700 mm	500 kg
	207.5 in	135.4 in	145.6 in	1,102 lb
CFX6/12	2,930/4,765 mm	1,587/3,417 mm	1,830/3,660 mm	615 kg
	115.3/187.6 in	62.5/134.5 in	72/144 in	1,356 lb

## HYDRAULIC SYSTEM

Powerpack	HPP 545 (45kW)	
Percussion, rotation pump, feed and boom pump	3 x 37 cc (50 Hz) (Triple pump) or 3 x 32 cc (60 Hz) (Triple pump)	
Filtration size	12 micron (pressure)	
	12 micron (return)	
Oil tank volume	165 liters	43.5 US gal
Tank filling	Electric pump	
Oil cooler	Oil cooled. Cooling capacity 1 x 25 kW	

## CONTROL SYSTEM

Type	IBCQF	
Controls	Direct control	
	Fully proportional	
	Fast rock drill return and forward movement	
Drilling control	Feed / percussion control Anti-jamming system	
Automatic cycle	Stop and return automatics	

## GREASING SYSTEMS

Centralized greasing points	Carrier
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## ELECTRIC SYSTEM AND LIGHTS

Total input power	60kW
Main switch	EB1
IP classification	See spec sheet TS2-132
Standard voltages	380-690 VAC
Starting method	Star delta starter 380VAC-575VAC
	DOL 600VAC-690VAC
Voltage fluctuation	± 10%
Automatic cable reel	CRQ with three-turn indicator light
Cable reel control (in and out)	At the operator station
Batteries	2 x 12 V, 90 Ah
Low level hydraulic oil	Indicator and switch
Front working lights	2 x 70 W (24V)
Front tramming lights	2 x 70 W (24V)
Rear tramming light	1 x 70 W (24V)

\*Alternative options/features/components \*\* Additional options/features/components

## FLUSHING SYSTEM

Flushing	Water
Water pump type	WBPI
Water pump capacity	43 l/min
Water pump inlet pressure	2 bar (Min.)
Flushing water pressure	10 - 15 bar
Air compressor	CTN10, 1m <sup>3</sup> /min (7 bar)
Water flushing with air cleaning of hole	1 x 60 liters air receiver

## TRAMMING AND OPERATOR STATION

Tramming speed	Horizontal: 6.5 km/h	Horizontal: 4 mph
	14% = 1:7 = 8° 4.0 km/h	2.48 mph
Gradeability / Inclination	Max. 15° / 5°	
Safety canopy	FOPS (ISO3449)	
Operation	Standing drilling, seated tramming	
Sound pressure level according to EN791	Operator station: 102 db(A) Emitted: 124 db(A)	
Seat	Ergonomic, adjustable for tramming including seat belt	
Reversing alarm	Standard	

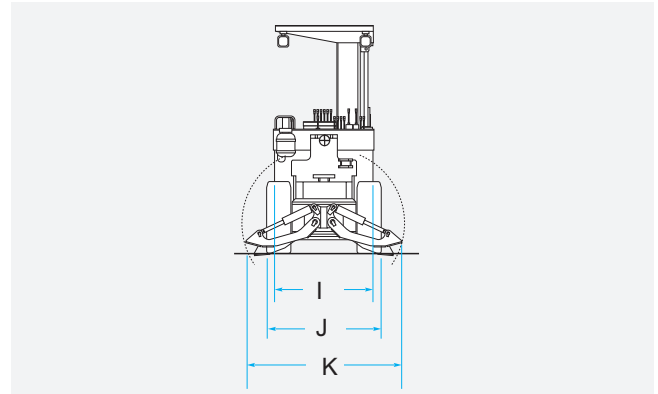
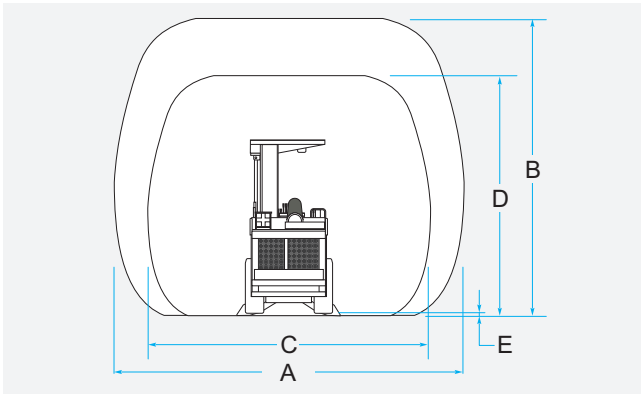
## CARRIER

Carrier	TCQ	
Carrier type	Wheel mounted, frame steering	
Frame steering	± 27°	
Rear oscillation	± 6°	
Ground clearance	225 mm	8.9 in
Diesel engine	Deutz L04D914, 58kW, Tier 3, Stage 3A	
Exhaust catalyzer	Standard	
Transmission	Hydrostatic	
Wheel motor	4 x radial piston	
Tires, rim	300 x 15, 8.00 - 15	
Service brakes	Hydrostatic transmission	
Parking and emergency brakes	Spring-applied Hydraulically released fail safe type oil immersed multi disc brakes on each wheel	
Fuel tank	75 liters	19.8 US gal
Hydraulic jacks	Outriggers (front)	
	Vertical (rear)	
Brake release	Manual hand pump	
Total weight	9,100 kg (depending on option)	20,062 lb (depending on option)

## OPTIONS AND PACKAGES

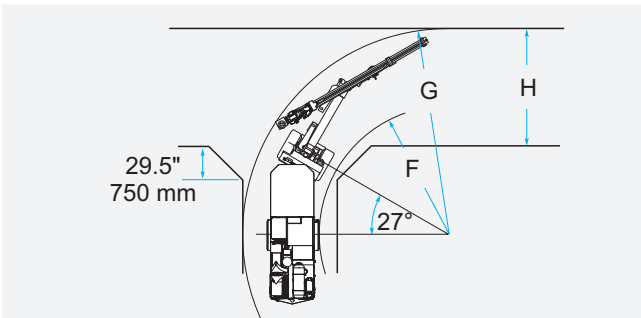
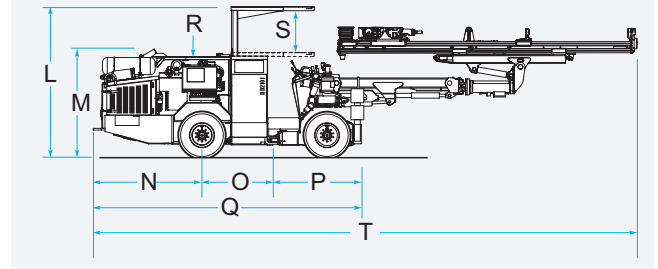
<b>Rock drill</b> Rock drill*	RD314 instead of HLX5 (with CFX6/12)
<b>Feed</b> TF500 feed lengths* CFX feed lengths* Rod retainer**	TF500-8', TF500-10' CFX6/12 with RD314 only FCC2 (CFX only)
<b>Hydraulic system</b> Biodegradable oils*	Shell Naturelle HFE46/HFE68
<b>Cleaning system</b> Pressure cleaning system without reel** HP cleaning system without reel**	5 - 15 bar Max. 180 bar
<b>Greasing system</b> Greasing gun and cartridge with hose reel**	Manual
<b>Electric system</b> Main switch* Optional voltage* Electric cable rubber or PUR**  Cable reel end switch**  Front working lights* Extra working lights** Amber strobe light**	UL/CSA electric components 1,000 VAC, 50 Hz Depending on voltage (See spec TS2-121) Automatic brake application before end of cable 2 x 35W LED (24V) 2 x 35W LED (24V) Beacon
<b>Flushing system</b> Air mist flushing**  Mine air connection** Water hose with hooks**	External water connection External air connection + IP5 Internal air supply IP5 air cleaner 32 mm (1 ¼ in), 80 meters
<b>Fire suppression system</b> Handheld fire extinguisher** Manual fire suppression system**	1 x 6 kg, Type ABC Ansul, 6 nozzles (incl. 1 x extinguisher)
<b>Carrier</b> Diesel engine* Tires* Hydraulic jacks*  Wheel chocks and holders**	Deutz F4L912W, 40kW, Tier 2, Stage 2 Foam-filled tires Telescopic (front) Narrow outriggers (front) 2 pieces
<b>Extra items</b> Ground fault and overcurrent protection** Spare rock drill** Spare wheel assembly** Special tools for rock drill** Documentation**	VYK  Standard or foam-filled Extra manuals
<b>Packages</b> Regional packages** Harsh water packages**	USC, EUR Basic (see spec sheet TS2-049)

\*Alternative options/features/components \*\* Additional options/features/components



**DIMENSIONS - DRILLING**

Model	Units	COVERAGE AREA				
		A	B	C	D	E
DD210	mm	5,500	4,400	4,500	3,600	100
	in	216.5	173.2	177.1	141.7	3.93



**MAIN DIMENSIONS**

I	1,200 mm	47.24 in	
J	1,400 mm	55.1 in	
K	2,670/2,000 <sup>#</sup> mm	105.1/ 78.7 <sup>#</sup> in	
L	2,750 mm	108.2 in	
M	1,900 mm	74.8 in	
N	1,910 mm	75.2 in	
O	1,195 mm	47 in	
P	1,000 mm	39.3 in	
Q	4,775 mm	188 in	
R	1,770 mm	69.6 in	
S	900 mm	35.4 in	
T	TF508*	TF510*	TF512
	9,150 mm 30 ft	9,150 mm 30 ft	9,590 mm 31.5 ft

<sup>#</sup>Narrow outriggers values

Model	Units	CORNERING		
		F	G	H
DD210 - TF512	mm	3,400	5,100	2,600
	in	133.8	200	102.3
DD210 - TF510*	mm	3,400	5,100	2,600
	in	133.8	200	102.3
DD210 - TF508*	mm	3,400	5,100	2,600
	in	133.8	200	102.3

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