

APPLICATION

Sandvik DD210L-V is a single boom low profile drilling machine designed to work in excavations with headroom as low as 2.0 m in height.

The carrier, coupled with the unique multi-purpose boom and telescopic feed, gives the DD210L-V an extreme in versatility never seen before in a single boom low profile jumbo.

This high performance drilling machine optimizes the mining cycle being able to drill both support and face advance. It allows high drilling performance with good drill steel economy and high machine reliability.

The exceptional «V» shape layout is designed for good visibility and balance. Coupled with the powerful four-wheel-drive articulated carrier, it ensures safe, fast and versatile maneuvering even in tight conditions.

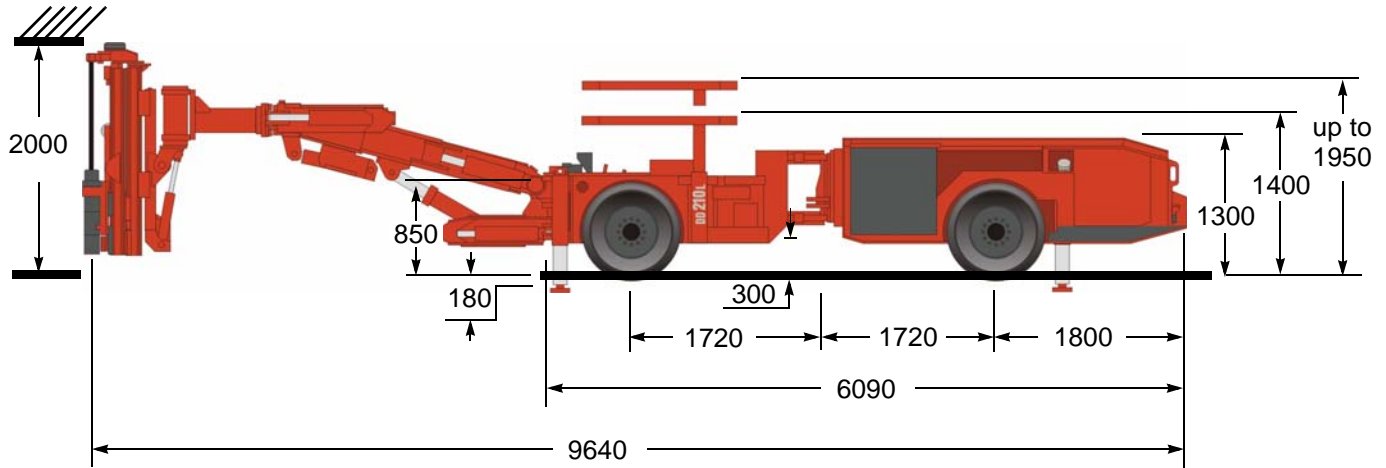
The improved operator environment and controls allow to concentrate on safe, fast and accurate drilling.

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

MAIN SPECIFICATIONS

Carrier		1 x TC LP
Safety canopy		1 x FOPS (ISO 3449)
Rock drill		1 x HYDRASTAR 200
Boom		1 x B 16 NV
Feed		1 x CR-T
Control system		1 x THC 560
Powerpack		1 x HP 560 (55 kW)
Shank lubrication device		1 x KVL 10-2
Air compressor		1 x CT 10
Water pump		1 x WBP 1
Cable reel		1 x TCR LP
Length		10 000 mm
Width	carrier, front part	2 250 mm
	carrier, rear part	2 200 mm
Height	carrier, front part	1 190 mm (w/o canopy)
	carrier, rear part	1 300 mm
Weight		10 950 kg
Tramming speed	horizontal	12 kph
	13%=1:7=8°	5 kph
Gradeability, max		30 %=1:3,3=17°
Safe working angle front and side		27 %=1,3,5=15°
Noise level (Free field condition)		< 98dB(A)

GENERAL DIMENSIONS



All dimensions in mm

HYDRASTAR 200 ROCK DRILL

(Technical Specifications 2-100 S)

Weight		115 kg
Length		765 mm
Profile height		70 mm
Impact power		6 - 10 kW
Max working pressure	- Percussion	200 bar
	- Rotation	210 bar
Max torque (125 ccm motor)		420 Nm
Hole size	- Bolting	30 - 41 mm
	- Face drilling	30 - 45 mm
	- Reamer	76 - 102 mm
Recommended steel		H25 - H32 - Ø39
Female shank		R32
Flushing water pressure		12 - 15 bar

CR-T TELESCOPIC FEED

Feed type		Cylinder - wire rope
Front clamping head		Auto-centralized
Rear extension		1 200 mm
Feed length	- Retracted	1 900 mm
	- Extended	3 180 mm
Rod length	- Retracted	1 150 mm
	- Extended	2 435 mm
Hole length	Bolting	- dia 30 mm 1.2 m - 1.8 m
		- dia 41 mm 1.8 m - 6.0 m
	Face drilling	- dia 30-45 mm 2.1 m

B 16 NV BOOM

(See TS 4-507 S)

Type	Parallel holding
Weight (with hoses)	1 800 kg
Feed roll-over	360°
Boom extension	800 mm
Feed extension	500 mm

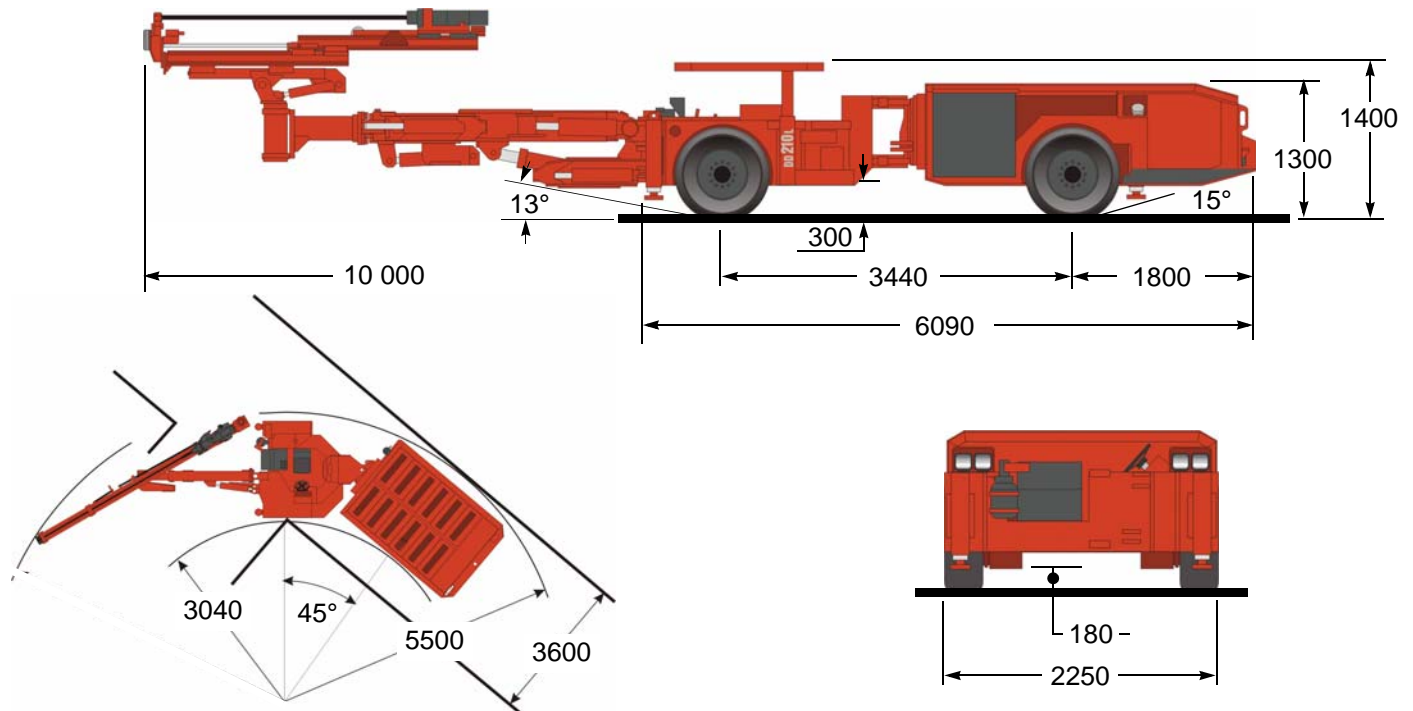
THC 560 CONTROL SYSTEM

Power control	Adjustable full power
	Adjustable collaring power
Rotation control	Adjustable rotation speed
	Reversible rotation
Automatic functions	Collaring
	Feed controlled percussion
	Anti-jamming
	Flushing
	Stop-and-return
Boom controls	Fully proportional

HP 560 POWER PACK

Electrical motor	1 x 55 kW (75 hp)
	3-phase motor
Pump types - Percussion, feed & boom	Axial piston,
	1 x 130 l/min variable displacement
- Rotation	1 x 60 l/min gear pump
Filtration	- Pressure 1 x 20 micron
	- Return 1 x 10 micron
Drilling hydraulic tank volume	160 liters

TRAMMING DIMENSIONS



All dimensions in mm

TC LP CARRIER

Diesel engine	Deutz BF4M 2012, 74 kW (100 hp)
	Tier 2 emission standards
- Exhaust	Catalyser
Automotive hydrostatic transmission	
- One pump	Variable displacement
	Axial piston, 0-71 cm ³ /rev
- Four wheel-motor	Radial piston
Tires	315/85 x 15
Steering	Frame steering, 2 x 45°
Oscillation	Center point, 2 x 15°
Brakes - Service	Hydrostatic transmission
- Emergency, neutral & parking	Spring applied, hydraulically released fail safe type
	oil immersed multi disc brakes on each wheel
- Manual brake release	Hand pump
Stabilizers	2 hydraulic jacks, front
	2 hydraulic jacks, rear
Telescopic safety canopy	Hydraulic, 550 mm
Fuel tank volume	60 liters
Tramming hydraulic tank volume	50 liters

AIR CIRCUIT

Compressor	C.T. 10, screw type
- Capacity	1000 l/min at 7 bar
Electric motor	7.5 kW (10 hp)
Shank lubrication device	1 x KVL 10-1
- Air consumption	250-350 l/min
- Oil consumption	180-250 g/h

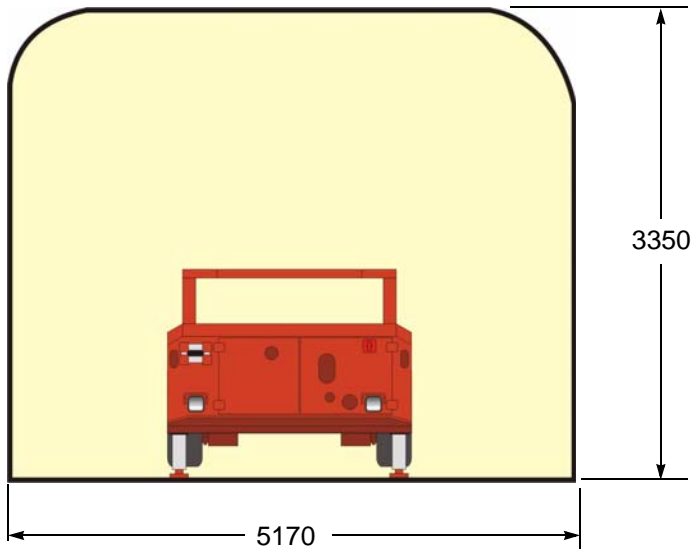
WATER CIRCUIT

Water booster pump	Centrifugal type
- Capacity	30 l/min at 11 bar
- Electric motor	4 kW (5.5 hp)
Oil cooler	OW 30, water-actuated counterflow
- Cooling capacity	30 kW
Min water supply pressure	2 bar

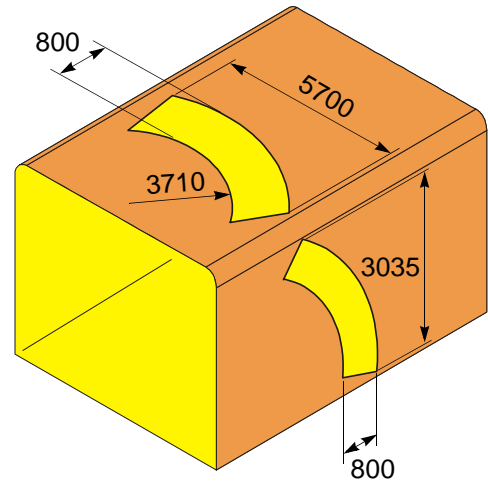
ELECTRICAL SYSTEM

Total installed power	70 kW
Voltage	380 - 660 V (±10%)
Phase sequence indicator	
Frequency	50 or 60 Hz
Starting method	Star / Delta
Thermal overload protection	
5 x hourmeters (Engine, Powerpack, Percussion, Compressor, Tramming)	
Reverse alarm	
Cable reel	TCR LP type, with spooling device
- Capacity	See specification 5-4100
Lighting (24 VDC)	
- Working lights	2 x 35 W (HID)
	2 x 70 W
- Tramming lights	front 2 x 70 W
	rear 2 x 70 W
Batteries	voltage 2 x 12 V
	rating 120 Ah
Transformer rating	1.3 kVa

COVERAGE AREA



DD210L-V on jacks.
All dimensions in mm.



OPTIONAL EQUIPMENT

DRILLING SYSTEM

Automatic hole flushing on rock drill return with 60 l air tank.

*) SLU Shank lube device.

ELECTRICAL SYSTEM

Ground fault and overcurrent unit VYK 200.

Electric cable rubber or PUR.

CARRIER

Fume diluter.

Complete spare wheel.

Full wiggins quickfill system.

OTHER OPTIONAL EQUIPMENT

Fire extinguisher 9 kg.

Fire suppression system ANSUL, 6 nozzles.

South African Specification LP (SAS LP) package
(*Technical Specification 5-905 S*).

*) Electric oil filling pump.

Central lubrication system.

Additional HP filters on tramming circuit.

High pressure cleaning system (180 bar) without reel.

Manuals other than French/English language.

Grease pump, nozzle and reel

*) replaces standard component