

DS210L UNDERGROUND DRILLS

TECHNICAL SPECIFICATION



APPLICATION

Sandvik DS210L is a semi-mechanized one man operated electro hydraulic low profile bolting machine for rock reinforcement in excavations with headroom as low as 1.7 m.

The robust rectangular profile telescopic boom allows the installation of severall rows of bolts without moving the machine.

The exceptional «V» shape layout is designed for good visibility and balance, this and the powerful four-wheel-drive articulated carrier ensure fast and safe manoeuvring even in low headroom conditions, the operator protected under a FOPS telescopic canopy.

The high performance drilling system allows high drilling performance with good drill steel economy and high machine reliability.

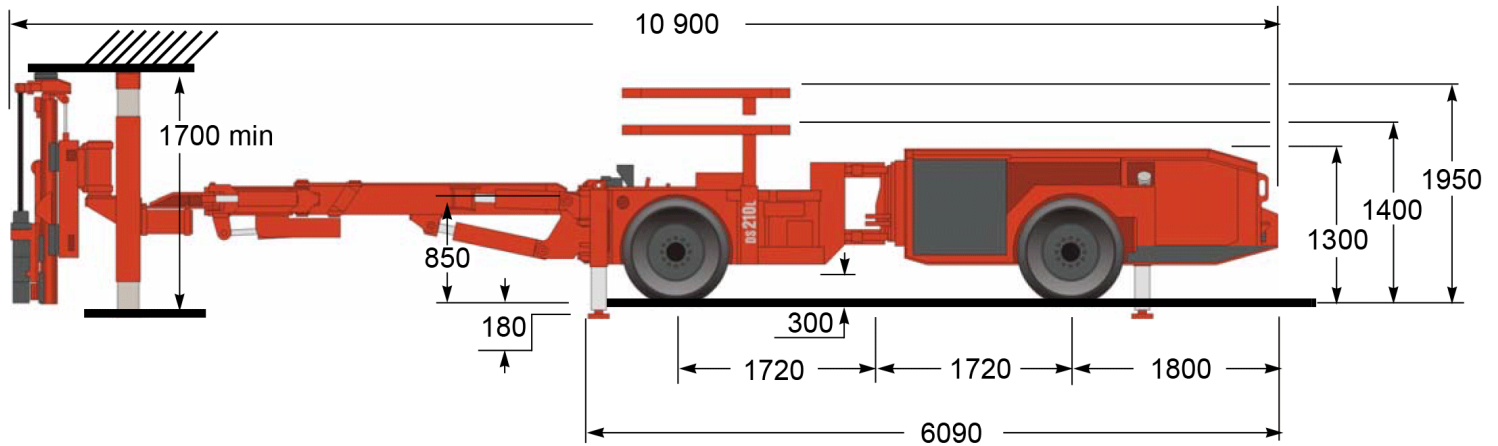
Added automatic functions allow the operator to concentrate on safe, fast and accurate drilling and bolts installation. All functions are piloted by an electric cable remote control.

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 HLX1
Wrench		1 x RHR 54
Bolting feed		1 x CRXS-B
Boom		1 x B 26 XL LPB
Control panel		1 x TA 132 E
Powerpack		1 x 30 kW
Shank lubrication device		1 x KVL 10-1
Air compressor		1 x CT 10
Water pump		1 x WBP 1
Cable reel		1 x TCR LP
Length		10 900 mm
Width	carrier, front part	2 250 mm
	carrier, rear part	2 200 mm
Height	roof down	1 400 mm
	roof up	1 950 mm
Weight		11 000 kg
Tramming speed	horizontal	12 km/h
	13%=1:7=8°	5 km/h
Gradeability, max		30 %=1:3,3=17°
Safe working angle front and side		27 %=1,3,5=15°
Noise level (Free field condition)		< 98 dB(A)

GENERAL DIMENSIONS



All dimensions in mm

HLX 1 ROCK DRILL *(Technical specification 04025-1)*

Standard shank	R 23
Weight	50 kg
Impact frequency	70 - 88 Hz
Percussion pressure	100 - 180 bar
Impact power	3.0 - 6.5 kW

RHR 50 WRENCH *(Technical specification 2-405 S)*

Weight	40 kg
Max oil pressure	210 bar
Max torque	450 Nm

CRXS-B BOLTING FEED *(Technical specification 8-5115)*

Type	Semi mechanized, double pass
Drill rods	MF R23 - H25
Bolt length	1.2 - 1.8 m
Bolting feed roll-over	240°
Bolting feed extension	500 mm

B26 XL LPB BOOM *(Technical specification 8-406 S)*

Type	Universal
Weight (with hoses)	2 000 kg
Boom extension	1 700 mm

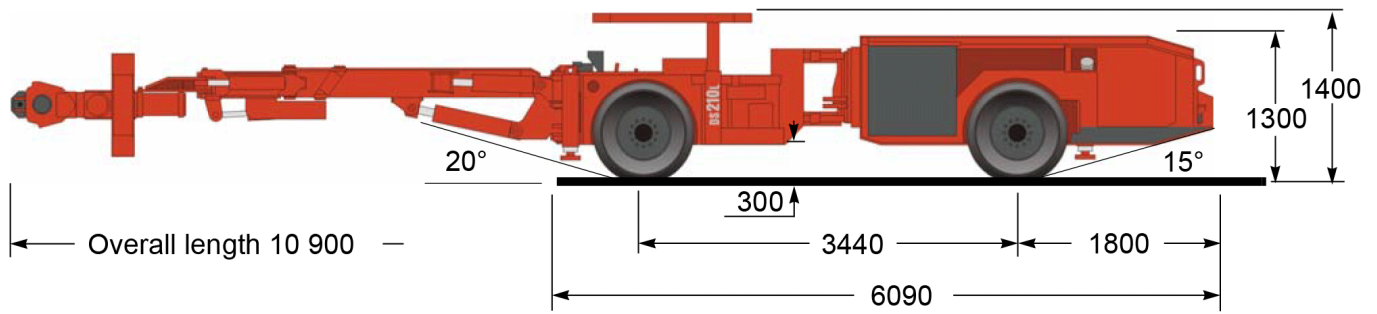
TA 132 E HYDRAULIC CONTROL SYSTEM

Control	Electric remote
Control functions	
- Power control	Adjustable full power
	Adjustable collaring power
- Rotation control	Adjustable rotation speed
	Reversible rotation
- Flushing control	Water flushing

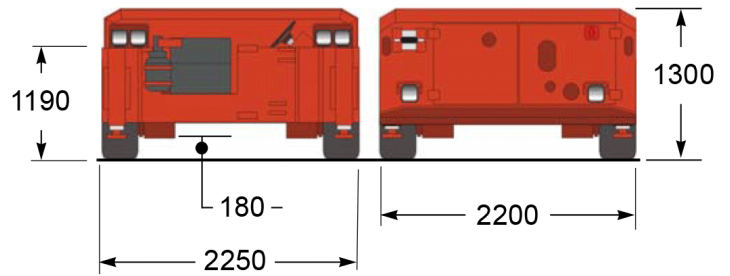
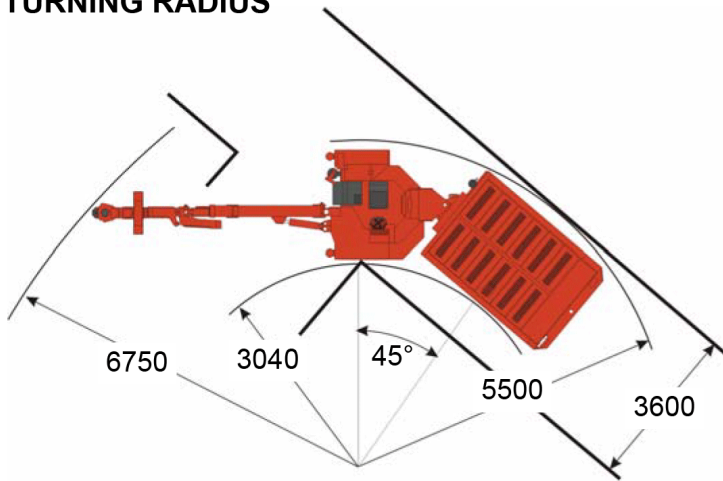
ELECTRO HYDRAULIC POWER PACK

Electrical motor	1 x 30 kW (40hp)
	3-phase motor
Pump types	
- Percussion, feed & boom	Gear pump, double stage
- Rotation	Gear pump
Filtration	
- Pressure	1 x 20 micron
- Return	1 x 10 micron
Drilling hydraulic tank volume	160 liters

TRAMMING DIMENSIONS



TURNING RADIUS



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

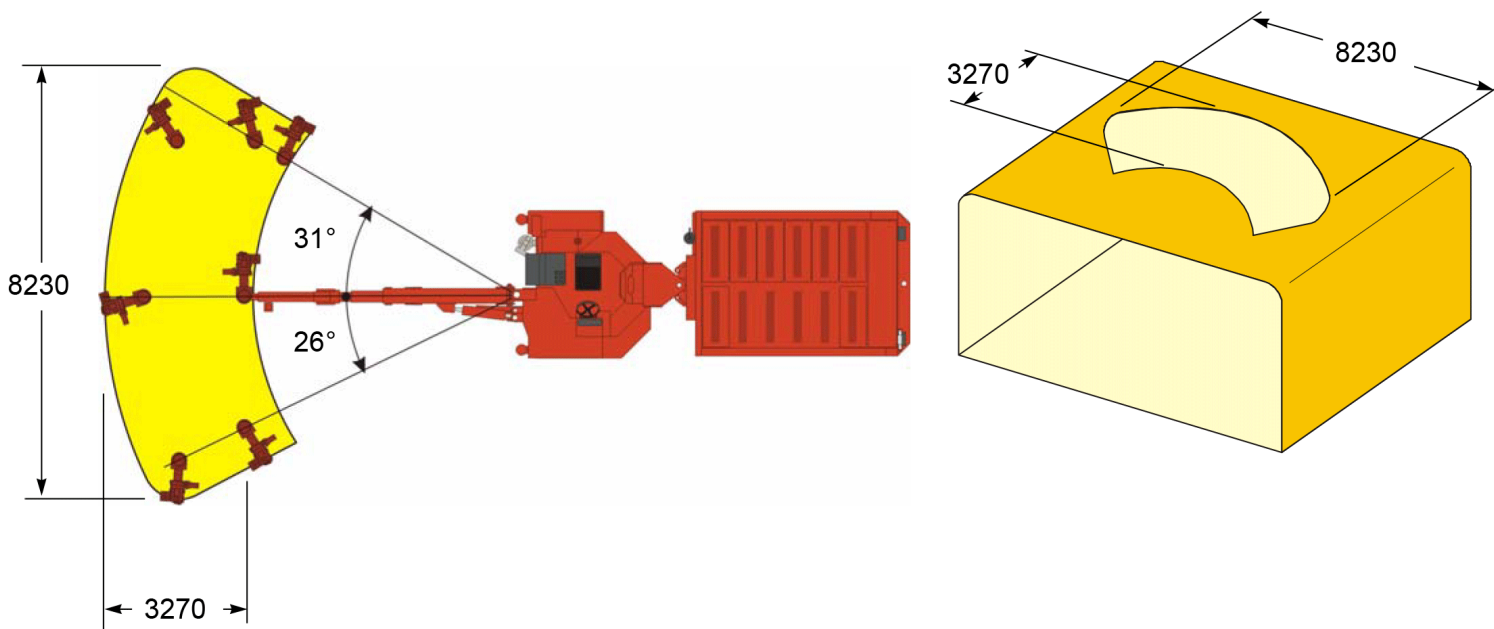
Compressor	C.T. 10, screw type
- Capacity	1000 l/min at 7 bar
Electric motor	7.5 kW (10 hp)
Shank lubrication device	1 x KVL 10-1
- Air consumption	250-350 l/min
- Oil consumption	180-250 g/h

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	45 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
	rear
	2 x 70 W
Batteries	voltage
	rating
	2 x 12 V
	120 Ah
Transformer rating	1.3 kVa



All dimensions in mm

OPTIONAL EQUIPMENT

DRILLING SYSTEM

*) SLU shank lube device.

ELECTRICAL SYSTEM

Ground fault and overcurrent unit VYK 200.

Electric cable rubber or PUR.

CARRIER

Complete spare wheel.

Manual water hose reel.

Full wiggins quickfill system.

OTHER OPTIONAL EQUIPMENT

Fire suppression system ANSUL, 6 nozzles.

South African Specification LP (SAS LP) package (see specification sheet 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.

CRXS-Bolting Head for 2,1-2,3m bolts.

Grease pump, nozzle and reel

*) replaces standard component