

# DL230L LOW-PROFILE LONGHOLE DRILL

TECHNICAL SPECIFICATION

Sandvik DL230L is a low-profile single-boom electrohydraulic production drilling jumbo designed to work in excavations with headroom as low as 1.7 meters. Sandvik DL230L is capable of drilling several lines of parallel holes, up, down and horizontally, as deep as 23 meters.

The 360 degree rotation in full parallel coverage area plus wide angle ranges forward and backwards make the robust universal telescopic boom suitable for various drilling applications. The long reach of the boom also enables safe access to potentially unsafe or narrow places such as vein, reef or raise drilling.

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 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**

1 x HLX5, 20 kW
1 x LHF2006
1 x B26LC
Up to 23 meters
3 000 mm x 3 000 mm
4 370 mm
2 250 mm
1 380 mm / 1 950 mm
10 970 mm
14 000 kg depending on options

#### **ROCK TOOLS AND HOLE LENGTH**

Time	Rod Ø	Hole Ø (mm)	Maximu	um hole len	gth (m)*
Type	(mm)		4' rods	5' rods	6' rods
R32	32	51	15.5	19.5	23.5
T35	39	54	14.3	18	21.7
T38	39	64	14.3	18	21.7
T45	46	76	13.1	16.4	19.8
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\*) Feed in contact with rock and front stinger retracted



# HYDRAULIC ROCK DRILL

Type of rock drill	HLX5 (TS-232)
Percussion power	20 kW
Percussion pressure	Max. 220 bar
Percussion rate	67 Hz
Rotation speed	Max. 250 rpm (with OMS125)
Rotation torque	625 Nm (with OMS125)
Weight	210 kg
Length with shank adapter	1 100 mm
Profile height	90 mm
Inflating device for accumulator	Specification 2-9110

#### DRILLING MODULE

Type of feed	LHF2000 (TS2-175)
Rodlength	1 220 - 1 830 mm (4' - 6')
Feed force	20 kN
Feed and return speed	Up to 5 and 10 m/min
Stinger extension	600 mm (front stinger) 1 200 mm (rear stinger)
Type of rod handling system	ERHC12 (TS2-168)
Storing capacity (R32 / T38 / T45)	13 / 12 / 11 rods
Retaining centralizer	FCC3

## DRILLING MODULE DIMENSIONS

Feed	Rod length	Total length
LHF2004	1 220 mm	2 850 mm
LHF2005	1 525 mm	3 155 mm
LHF2006	1 830 mm	3 460 mm

## воом

B26LC (TS2-158)
Automatic hydraulic
800 mm
1 200 mm
1 850 kg
360°

## HYDRAULIC SYSTEM

Powerpack	HPP555 (55 kW)
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
Oil drilling safety temperature	Above 75°C
Tool set for hydraulic adjustment	Specification 2-9100

# DRILLING CONTROL SYSTEM

Type of control system	THC560, LH
Operating principle	Hydraulic control
Manual boom control	Direct control Fully proportional Hydraulic parallelism
Power control	Adjustable full power Adjustable collaring power
Rotation control	Adjustable rotation speed Reversible rotation
Drilling and boom movement inhibition	2 x switches and 1 x door interlock

## ELECTRIC SYSTEM

Standard voltage	500 - 575 V (± 10%), 50 Hz
Total installed power	75 kW
Main switch gear	MSE-1JH
IP classification	Specification TS2-132
Starting method	Star delta starter 500 - 575 V
Automatic cable reel	TCR LP with spooling system
Cable reel control	Operator station and rear of unit
Cable reel end switch	Automatic brake application before end of cable
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	Beacon (24V)
Operator station light	1 x 21 W (24V)
Batteries	2 x 12 V, 120 Ah

# AIR AND WATER SYSTEM

Flushing of holes	By water
Water booster pump	WBP2
Water pump capacity	100 l/min
Water pump inlet pressure	2 bar (min.)
Flushing water pressure	10 - 15 bar
Shank lubrication device	Air / oil mist, KVL10-1
Air compressor	CTN16 (1.6 m³/min at 7 bar)
Rock drill oil consumption	180 - 250 g/h
Rock drill air consumption	250 - 350 l/min
Flushing on rock drill return	2 x 60 liters air receiver

#### OPERATOR'S SAFETY CANOPY

Canopy certification	FOPS / ROPS (ISO 3449 / 3471)
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) Emitted: 124 dB(A)

#### CARRIER

CARRIER	
Type of carrier	TCLP (frame steered)
Carrier articulation	± 42°
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
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 pcs
Documents 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

Rock drill		
*Power extractor	For HLX5 rock drill	
Feed		
*LHF feed length	LHF2004, LHF2005	
Rear stinger extension	Add 1 meter on the rear stinger	
Protector for LHF	Rubber front protection	
Instrumentation		
Laser positioning	2 x laser type and gravitational angle measurement	
Hydraulic system		
*Oil tank filling pump	Electric	
Additional tramming HP filter	10 micron	
Electric system		
Optional voltage	1 000 V, 50 Hz	
Electric cables	Specification TS2-121	
Ground fault and overcurrent	VYK	
protection		
Electric power interlock	Powerpack starts only when jacks are on ground	
Air and water system		
*Shank lubrication device	KVL10-1 (air/oil mist) with low level indicator	
Air mine connection	IP5 air cleaner	
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	O 15 11 TOO 000	
Screen protection	Specification TS2-062	
Cleaning system HP system without reel	Up to 180 bar	
Greasing systems		
Centralized greasing points	Carrier	
Fire suppression system		
Spare hand held fire extinguishe		
Manual system	Desautel, 2 x 9 kg Type ABC Ansul. 6 nozzles	
Carrier	4 = = =	
*Foam filled tires	4 pcs	
ABA brakes	Auto brake application on default	

Extra items

Gate end box

Berg plug / Berg base

Spare rock drill

Spare wheel assembly Special tools for rock drill

Documentation

Warranty extension
Package: Country specific

options

Package: \*Harsh water

HLX5

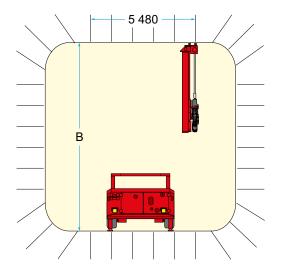
315/85 x 15 or foam filled tire

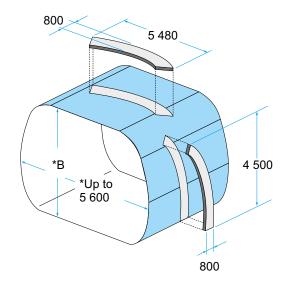
Extra paper, PDF manuals One year (excl. Kazakhstan) SAS for 200L-series (5-9905)

Basic (TS2-049)

\*) replaces standard feature

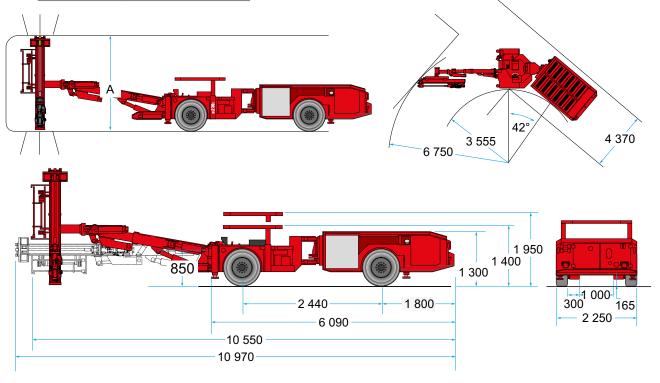






	Α	В
DL230L (LHF2004)	3 000	4 000
DL230L (LHF2005)	3 300	4 300
DI 2301 (LHE2006)	3,600	4 600

\* Maximum with rear stinger 1 200 mm and rear stinger extension option All dimensions in mm



All dimensions in mm

Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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