

## **APPLICATION**

The Quasar 1L is a compact and flexible electrohydraulic long hole drilling jumbo for production drilling in underground mines. The Quasar 1L, designed for vertical and inclined plane rings and fans, is capable of drilling 51 - 64 mm holes up to 20 m.

The robust dedicated long-hole boom has 1.5 meters parallel drilling coverage. The 360° rotation in full parallel coverage area and wide angle ranges forward and backwards make the boom suitable to various drilling applications.

The jumbo layout is designed for good visibility and balance, this and the powerful four-wheel-drive articulated carrier ensure fast and safe manoeuvering in small drifts.

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

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.

## **MAIN SPECIFICATIONS**

1 x Quasar Carrier Safety canopy 1 x FOPS Rock drill 1 x HL 510 LH Feed 1 x LHF 2005-5 1 x BSL 360 Boom Control system 1 x IBCL Portable remote control 1 x ECRL Power pack 1 x 45 kW Length 6 450 mm Width 1 290 mm Height 1 850 / 2 750 mm

Weight 7 400 kg Tramming speed horizontal 6.5 kph

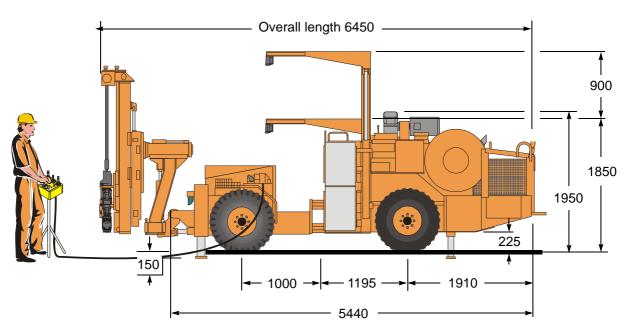
13%=1:7=8° 4 kph Gradeability, max 35 %

Noise level (EN791) Free field condition

- Operator's platform LpA = 102 dB - Emitted LwA = 124 dB



# **GENERAL DIMENSIONS**



All dimensions in mm

HL 510 LH ROCK DRILL	(Technical specification 2-1150)
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Weight		130 kg
Length		1 024 mm
Profile height		76 mm
Percussion power		16 kW
Max working pressure	- Percussion	175 bar
	<ul> <li>Rotation</li> </ul>	175 bar
Max torque (125 ccm mo	otor)	625 Nm
Hole size		51 - 64 mm
Shank adapter		R38 / T38
Flushing water pressure		10 - 20 bar

# **LHF 2000-5 FEED**

(Technical specification 3-305 S)

Extension rod Round 32 / 39 / 46 Feed force 20 kN

	Optional	Optional	Standard
	LHF 2003	LHF 2004	LHF 2005
Total length (mm)	2570	2885	3200
Extension rod length (mm)	915	1220	1525
Mini operating dimension(mm)	2700	3000	3300
Net weight (kg)	745	760	775

# **BSL 360 BOOM**

(Technical specification 4-400 S)

Type Vertical parallel drilling
Weight (with hoses) 800 kg
Feed roll-over 360°
Feed tilt 30° forward, 70° backward
Feed extension 1 200 mm
Parallel drilling coverage 1 500 mm

### **HYDRAULIC CONTROL SYSTEM**

Type IBCL
Control functions Auto smooth collaring
Precise anti-jamming
Back pressure for gravity compensation
Electro-valves for remote control implementation

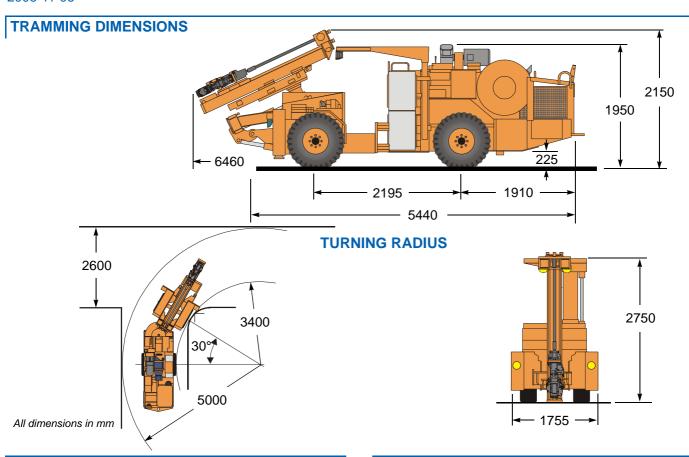
# PORTABLE ELECTRIC REMOTE CONTROL

Model ECRL
Controls Percussion, rotation, flushing
Drill feed (thrust, screwing, rod clamp, stingers)

### **ELECTRO HYDRAULIC POWER PACK**

Electrical motor 45 kW (60hp) Hydraulic pump type Radial piston Fixed displacement





#### **QUASAR CARRIER**

Diesel engine Deutz F3L 912 W, 30 kW (41 hp)
- Exhaust Catalyser

Hydrostatic transmission

- One pump Variable displacement
Axial piston, 0-75 cm³/rev
- Four wheel-motor Radial piston
Oscillation Rear axle. 2 x 6°

Tires 10.00 x 15

10.00 X 10

Steering Frame steering, 2 x 30°
Brakes - Service Hydrostatic transmission

 Emergency & parking Spring applied, hydraulically released fail safe type

oil immersed multi disc brakes on each wheel

Stabilizers 2 hydraulic jacks, front

2 hydraulic jacks, rear

Safety telescopic canopy Hydraulic, FOPS

- Lowering capability 900 mm

Fuel tank 60 litre
Hydraulic tank 130 litre

415 415 4115

**AIR CIRCUIT** 

Compressor Piston type
- Capacity 800 l/min.at 4 bar
Electric motor 5.5 kW (7.5 hp)

**WATER CIRCUIT** 

Water pump type 1 x WBP 2 (4.0 kW)
- Capacity 100 l/min (12 bar)

With 2 bar inlet pressure

- Inlet pressure 2 - 7 bar (while drilling)
Inlet pressure control valve 1 x WP 70

Oil cooler OC 25, water-actuated counterflow

- Cooling capacity 25 kW

#### **ELECTRICAL SYSTEM**

Total installed power 60 kW Voltage 380 - 660 V

Phase sequence indicator

Frequency 50 or 60 Hz Starting method Star / Delta

Thermal overload protection

Cable reel capacity 80 m of cable 32 mm O.D

Lighting - Working lights 2 x 70 W, 24 V - Tramming lights 3 x 70 W, 24 V

(the 2 front lights are also used as working lights)

Batteries - Voltage - Rating 2 x 12 V - 120 Ah Transformer rating 1.3 kVa

### **FULL DIESEL VERSION AVAILABLE**

Air-cooled engine
- Max. rating at 2300 rpm

Fuel tank capacity

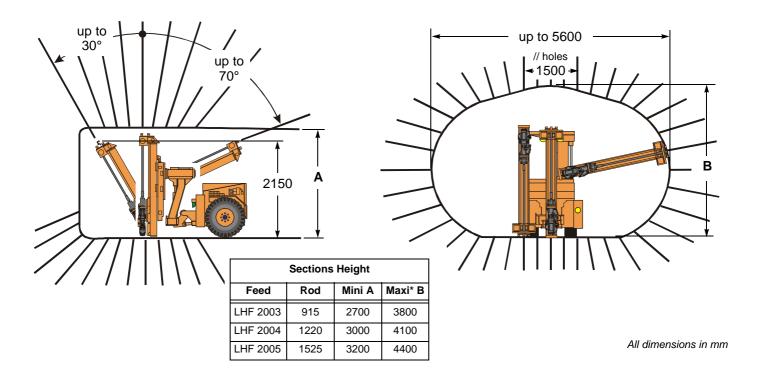
Compressor & water pump driven by hydraulic motors

Total machine weight

Deutz F6L 912 W
54 kW (74 hp)
170 litre
8 200 kg



## **COVERAGE AREA**



## **OPTIONAL EQUIPMENT**

#### **DRILLING SYSTEM**

Drill angle measuring instrument TMS D1.

Auto air flushing on rock drill return.

Air cleaner IP5 plus auxiliary connection for mine air network.

\*) Air mist flushing kit for auxiliary water/air connection. Cuttings collector.

Front stinger.

## **ELECTRICAL SYSTEM**

\*) 1 000 V electric power supply.

Ground fault detector

- not applicable to 1 000 V

Electric cable (Technical specification 5-4100).

\*) Allen Bradley electrics.

\*) 2 x 150 W halogen working lights.

#### **HIGH ALTITUDE OPTIONS**

\*) F4L 912W Diesel engine (1000 m < altitude < 2400 m). Altitude compensator for D4 engine (altitude > 2400m) Altitude compensator for D6, full Diesel version.

#### **CARRIER**

Fume diluter.

Complete spare wheel.

Hand pump for manual brake release.

### **OTHER OPTIONAL EQUIPMENT**

Fire suppression system ANSUL, 6 nozzles.

Reverse alarm.

\*) EU, UL, CSA, AUS norms package + local standards and regulations.

Pressure cleaning system (10 bar) without reel.

\*) Electric oil filling pump.

Centralized greasing.

Automatic lubrication system (Lincoln).

Biodegradable oils.

\*) Ni-Cr plated cylinder rods.

Manuals other than French/English language.

\*) replaces standard component

#### **CAGING DIMENSIONS AND WEIGHT**

		Front Part	Rear Part
Length	(mm)	2 390	3 220
Width	(mm)	1 670)	1 200
Height	(mm)	1 285	1 480
Weight (approx	kimate) (kg)	2 400	4 000

**Nota:** Caging and weight on primary dismantling, with wheels.

