

NLC CO., LTD



L-38-98

High Speed Diamond Core Drill

L-38 High Speed Diamond

Core Drill is well known model in the world, having high acceptance in mineral exploration throughout the global market, equipped with 8-step transmission, which enables a user to select proper working speed.

Features

1) 8 Bit Speed

4-step Gear x High & Low

2) High Speed & Torque

Speed : 40 – 1000 rpm

Torque : 231 – 6208 Nm

3) Convenience

Built-in Angle Hole Mast and Built-in Wireline Hoist can be installed as options.

4) Hydro chuck is equipped as a standard.

5) Robustness

Gearing Structure enables the machine to last so long.

6) Easy Maintenance

This advantage can be most helpful to operators in remote drilling job sites.



HAM-R Hydraulic Chuck



One-man Control System



4-Way Valve



Built-in Mast

If bigger Spindle I.D. and more Torque are required, **L-38-150 Megalo** is recommended : Spindle I.D. : 145mm Max. Torque : 10375Nm

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L-38-98 Technical Specification

Diesel Engine Type

Drilling Depth Guidelines for Wireline

NJ-WL (O.D. 69.9mm)	565 m
HJ-WL (O.D. 88.9mm)	375 m

Prime Mover

Diesel Engine Unit	ISUZU 4 Cylinder Diesel Engine (Water Cooled)
Displacement	2.179 L
Power at 1,800 rpm	26 kW (34.7 PS)

Drill Head

Maximum Rod Diameter	98 mm (94 mm with Hyd. Chuck)
Mechanical Transmission	8 Speed (4 Steps x Low / High)

Torque & RPM Ratings at 1,800 rpm

	Speed (RPM)		Torque (Nm)	
	Low	High	Low	High
1st Gear	40	168	6,208	1,478
2nd Gear	83	340	2,992	715
3rd Gear	152	630	1,634	391
4th Gear	250	1,000	966	231

Hydraulic System

Primary Pump	Variable Feed Control Pump
Max. Flow & Pressure	50 L/min at 1,200 rpm / 8.8 MPa

Built-in Mast (Option) & Feed System

Feed Stroke	600 mm
Pull Capacity	85.3 kN at 7 MPa
Thrust Capacity	58.4 kN at 7 MPa
Rod Pull	3 m or 6 m
Drilling Angle	0 - 60° w/ 3 Stage Mast
Length (Built-in 3 Stage Mast)	9900 mm (from GL to Top Seaves)

Main Hoist

Max. Line Pull	58.4 kN at 18 m/min
Line Speed at 1,800 rpm	18 - 37 - 69 - 116 m/min
Wire Capacity	35 m (16 mm Dia.)

Wireline Hoist (Option)

Max. Line Pull	9.8 kN
Line Speed	70 m/min
Wire Capacity	1,300 m (5 mm Dia.)

Dimension & Weight (Main Body)

Dimensions (L x W x H)	2,250 x 1,160 x 1,750 mm
Weight (Less Power)	1,880 kg

Drilling Depth Guidelines

Drilling Capacity have been calculated, based on field experiences, and may be reasonably expected. Ratings are based on vertical, straight, clean down hole using a 58.4 kN hoist (single line pull) . Actual drilling capacity will depend on in-hole tools, conditions, drilling techniques and equipment used.

* Specifications may change without any notice

Ver. 01 Aug 2020
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