

NLC CO., LTD



NL-700-V2

All Hydraulically Driven Core Drill

NL-700-V2 Drill was developed in pursuit for **Safety Control, Labor Saving** and **Cost Efficiency**.

Features

1. Versatility

Suitable for both High Speed and Low Speed rotary works. PQ Head is available.

2. Function-oriented

Easy handling with the central Control System.

3. High Productivity

- Easy set-up in a proper Bit Weight and Speed.
- **Sliding Head**
Can deal with large sized casings without opening drill head by hand.
- **Mast Slide**
Stroke : 1,500mm
- **Rod Connection Support**
Keeps the center of a drill string in angle / horizontal hole drilling.



These primary functions can realize high productivity with fast stable drilling operation, preventing unnecessary troubles.

Option

- **Trailer-mounted**
- **Hyd. Outrigger**
- **Horizontal Application**



Mast Slide



Gear Drive Head



Sliding Drill Head



Operation Panel



Rod Connection Support



Hydraulic Rod Holder



NL-700-V2 Technical Specification

Drilling Depth Guidelines

NJ-WL	700 m
HJ-WL	500 m
PJ-WL	350 m

Prime Mover

Standard Unit	ISUZU BB-6BGITRJ
Power at 2,200 rpm	123.6 KW (168.3PS)

Drill Head

Maximum Rod Diameter	95mm (120 mm / PJ : Optional)	
Mechanical Transmission Ratio	NLC 4 SPEED	
	1st	6.75 : 1
	2nd	3.25 : 1
	3rd	1.92 : 1
	4th	1.00 : 1
Final Drive	Gear Drive (not Roller Chain)	

Torque & RPM Ratings at 1,800 rpm

	Speed (RPM)	Torque (kN)
1st Gear	70 - 210	6.1
2nd Gear	150 - 300	4.3
3rd Gear	250 - 500	2.6
4th Gear	470 - 1,200	1.1

Hydraulic System

Primary Pump	
Max Flow	175 L/m
Maximum Pressure	25.5 MPa
Secondary Pump	
Max Flow	120 L/m
Maximum Pressure	17.5 Mpa
Third Pump	
Max Flow	50 L/m
Maximum Pressure	14.5 Mpa

Hydraulic Tank Capacity	220 L
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Drill Mast & Feed System

Feed Stroke	2,100 mm
Pull Capacity	80 kN (8157.6 kgf) at 2,000 psi
Thrust Capacity	50 kN (5098.5 kgf) at 2,000 psi
Drilling Angle	45 - 90°

Main Hoist

Max. Line Pull (Bare Drum)	58.8 kN (5,995.8 kgf)
Line Speed (Bare Drum)	24 m/min (Bare Drum)
Wire	60 m & 16 mm Dia.

Wireline Hoist

Max. Line Pull (Bare Drum / Full Drum)	7.1kN (726 kgf)
Line Speed (Bare Drum / Full Drum)	120 m / 440 m/min
Cable	1,500 m & 5mm Dia.

Mud Pump

Standard Unit	Triplex Piston Pump
Maximum Flow	167 L/min at 7Mpa
Maximum Pressure	7Mpa

Functions

Hyd. Mast Slide (1,200 mm)	option
Hyd. Sliding Drill Head (500 mm)	option
Hyd. Rod Connection Support	option

Dimension & Weight (Main Body)

Dimensions (L x W x H)	4,710 x 2,530 x 2,090 mm
Weight (Less Power)	Approx. 6,500kg

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 58.8kN (5,995.8kgf) hoist (single line pull) . Actual drilling capacity will depend on in-hole tools, conditions, drilling techniques and equipment used.