

NLC CO., LTD



L-38-150 "Megalo"

Spindle type drill for large diameter

Megalo 150 drill is available to handle large diameter Rod and Casing very properly through its big spindle head, having enjoyed high prestige in Japanese market over long years.

Features

- 1) **8 Bit Speed**
- 2) **High Torque**
High torque is up to 10375Nm.
- 3) **Large diameter with 145 mm I.D.**
- 4) **Versatility**
 - Ordinary drilling
 - Water-well drilling
 - Anchor drilling
 - Coring operation
- 5) **Robustness**
- 6) **Easy maintenance**
- 5) **High Fuel Efficiency**



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L-38-150 Megalo Technical Specification

※Normal Frame Type

Diesel Engine Type

Drilling Depth Guidelines

NQ	565 m
HQ	375 m

Prime Mover

Diesel Engine Unit	Isuzu 4 Cylinders Water Cooled Diesel Turbo Engine
Displacement	4.3 L
Power at 1,500 rpm	49 Kw / 66 PS
Weight	360 Kg

Drill Head

Maximum Rod Diameter	145 mm (up to 142 mm with Hyd. Chuck) (L-38-98 : 98 mm [up to 94 mm with Hyd. Chuck])		
Mechanical Transmission	4 Speed & Low / High		
Ratio	1st	6.32 : 1	
	2nd	3.09 : 1	
	3rd	1.68 : 1	
	4th	1.00 : 1	

Torque & RPM Ratings at 1,500 rpm

	Speed (RPM)		Torque (Nm)	
	Low	High	Low	High
1st Gear	35	145	10375	2500
2nd Gear	71	298	5109	1216
3rd Gear	130	548	2795	657
4th Gear	220	920	1647	392

*calculated figures

Hydraulic System

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

Drill Mast & Feed System

Feed Stroke	600 mm
Pull Capacity	85.3 KN at 7 Mpa
Thrust Capacity	58.0 KN at 7 Mpa
Rod Pull	3 m or 6 m
Drilling Angle	360°

Main Hoist

Max. Line Pull	47.0KN at 15 m/min
Line Speed at 1,500 rpm	15-31-58-96 m/min
Wire Capacity	35 m (16 mm Dia.)

Wireline Hoist powered by Hyd. Motor

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 1,900 mm
Weight (Less Power)	1,910 kg with Hyd. Chuck

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 58,800N hoist (single line pull) . Actual drilling capacity will depend on in-hole tools, conditions, drilling techniques and equipment used.

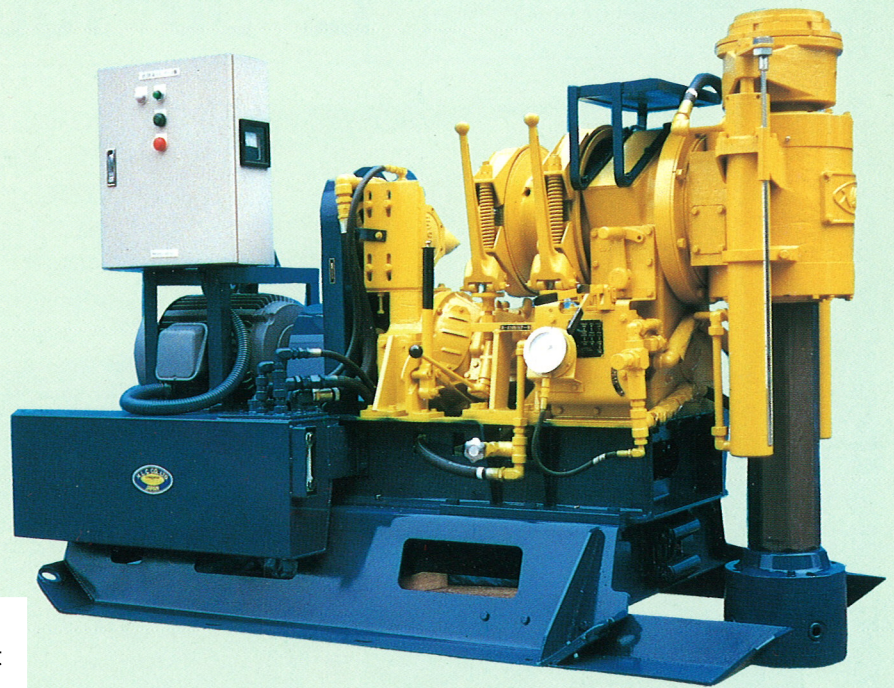
L-38-150 MEGALO"

Features

Because L-38-150 with a standard frame has Stub Shaft, it is possible to mount a prime mover on your side if purchased without a prime mover. Diesel engine and an electric motor can be installed and replaced with another in accordance with conditions of job sites. As upper frame and lower frame are slide base types, its body moves back and forth freely by Retractable Cylinder with a lever retract operation.

Purpose

Anchor drilling, water well drilling, hot spa drilling, soil investigation, ground reformation



L- SHAPED FRAME L-38-150

Features

It is easy to mount any prime over as the power is transmitted by Belt Drive. Spindle rotation speed is changeable in accordance with on-site condition by replacing V-Pulley. This V-Belt transmission system can absorb a lot of shock and vibration generated by the rotary work of large sized drill bits while drilling operation. Furthermore, as its slide stroke is 740mm, there is no much difficulty to insert large sized pipes.

Purpose

Water well drilling, Hot spa drilling, Soil Investigation, Large hole diameter operation, Piling, etc.

