

LD612

Reverse Circulation Drilling Rig



Range | 2000-3000mm sockets

LD612 Drill Rig Specifications

- Max drilling diameter 2000mm, 3000mm with cellar deck
- Max power swivel torque 119kNm
- Drill speed 0-60rpm variable
- Max drill string weight 50t
- Max pull back 65t
- Thrust limited to 55t
- Max inclination 18° 1 in 3 rake
- Weight (inc rigging and gripper) 24t
- Drill pipe NW200 or NW300 3m lengths
- Base flange connection 20 No. 22mm diameter equally spaced on 1500 PCD
- Typical assembly 2-3 days

The LD612 is a reverse circulation drilling rig capable of drilling through almost any soil and rock type. This enables the creation of sockets of up to 2000mm dia. In its standard configurations and with the addition of a cellar deck, sockets up to 3000mm with under-reaming.

The drill is comprised of 4 main sections: Drill gripper, Drill base, Mast and carriage and Power Swivel. The gripper allows connection to the pre-installed pile with sufficient capacity to accommodate the static and dynamic forces the drill rig can generate.

The Power Swivel provides the rotation force required to drill the socket which is

interchangeable with the LD2500. Thrust is provided by the two carriage rams located in the drill mast supporting the carriage.

Down-hole under-reaming can be used in a variety of applications to enhance installation efficiency and pile capacity and sockets can be drilled from vertical to 18° (1:3 rake).



The drill can be mobilised anywhere in the world as it can be broken down into component form, loaded into sea freight containers and reassembled upon arrival. Typically re-commissioning takes 2-3 days.

The LD612 is powered by a diesel hydraulic unit connected via a 30m supply umbilical.

Main applications

- Jacket Installations for Oil and Gas industry
- Pier and jetty construction
- LNG terminals
- Civil engineering projects
- Riser shafts
- Relief drilling/drive-drill-drive

LD612 Diesel Hydraulic Unit Specifications

Engine Type	TCD 2015 L06 2V
Power	273 kW @ 2100 rpm
Fuel Tank	450 litres
Pumps	2 x 210 l/min 1 x 42 l/min 1 x 22 l/min
Hydraulic Tank	450 litres
Weight	6.2t
Noise	75 dB (A) at 7m
Dims	1700 x 3900 x 2400 (excluding exhaust baffle)

The LDD Drill Range

