The LD408 is a reverse circulation drilling rig designed to operate in virtually any soil or rock type. It enables the creation of sockets of up to 1300mm dia. in its standard configuration or up to 2000mm dia. with a cellar deck. 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. It uses compressed air to achieve a secure grip on the pile to prevent movement throughout the drilling process. The Power Swivel provides the rotation force required to drill the socket to target depth specified by the project. Thrust is provided by the two carriage rams located in the drill mast supporting the carriage.

Down-hole under-reaming can be used to create larger sockets than the standard “fixed” drill bit diameter and sockets can be drilled from vertical to 18° (1:3 rake).

LD408 Drill Rig Specifications
- Max drilling diameter 2000mm
- Max power swivel torque 81kNm
- Drill speed 0-38rpm variable
- Max pull back available 60t
- Maximum thrust available 40t
- Weight 19t
- Variable geometry deck
- Modular design

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Main applications

- Pier and jetty construction
- Civil engineering projects
- LNG terminals
- Jacket Installations for the Oil and Gas industry
- Drive Drill Drive
- Riser shafts
- Relief Drive/Drill/Drive

### Specification for LD408

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max inclination</td>
<td>18 degrees 1 in 3 rake</td>
</tr>
<tr>
<td>Weight including rigging and gripper</td>
<td>19t</td>
</tr>
<tr>
<td>Drill pipe</td>
<td>NW200 3m lengths</td>
</tr>
<tr>
<td>Dimensions</td>
<td>L 5,240 x W 5,120 x H 8,500</td>
</tr>
<tr>
<td>Hydraulic power pack rating</td>
<td>176kW</td>
</tr>
<tr>
<td>Power pack weight</td>
<td>5.2t</td>
</tr>
</tbody>
</table>

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 on arrival. Typical assembly and re-commissioning takes 2-3 days.