

COMACCHIO MC4D DRILL RIG

PLANT DATA SHEET



The MC 4 D is a hydraulic drilling rig with a separate power pack, specifically designed for the execution of ground engineering works in confined or low overhead spaces and difficult access jobsites, inside buildings, basements and small tunnels. This is possible due to the rig's wide range of allowable movements in addition to the telescopic mast adjustment, which is available as an option. This machine is supplied with a separate soundproof diesel power pack that can be located separately to the drill rig. Thanks to the use of advanced modular hydraulic circuits, the MC 4D can accommodate a wide range of accessories and is suitable for any type of rotary or rotary-percussive drilling.

Both units are track mounted and the drill unit has 4 stabilising jacks for accurate locating & drilling.

Field of use:

The drill rig is manufactured for specialised civil engineering jobs, foundations, soil consolidations and special works. It is a compact light weight drill rig that can be lifted into hard to reach drill locations while maintaining full capacity. It can be engaged for the following type of works: It can be deployed for the following type of works:

Special works:

- Micropiles
- Anchoring
- Soil Nailing
- Jet grouting
- Drains

Drilling:

- Dry drilling
- Surveys
- Hydrogeological research
- Water wells

Together with the drill rig the following equipment can be used:

- Down-the-hole simple and odex type hammers
- Triple cones
- Single and double core samplers
- Screw augers
- Two and three-blade tools



Safety Features

- To avoid simultaneous action of various movements the machine is equipped with selector push-buttons which permit the action of only 1 function. This blocks the option of moving the mast while drilling and vice versa.
- There is an acoustic and visual (revolving beacon) alarm while conducting any moving and positioning of the drill rig

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- Starting the machine and consequently drill is only possible if the contact key and battery disconnecter are switched on.
- All hydraulic jacks have 1-way valves to isolate them and keep them in position in case of a hose leakage i.e. prevent uncontrolled movement.

TECHNICAL DATA

Mechanical data

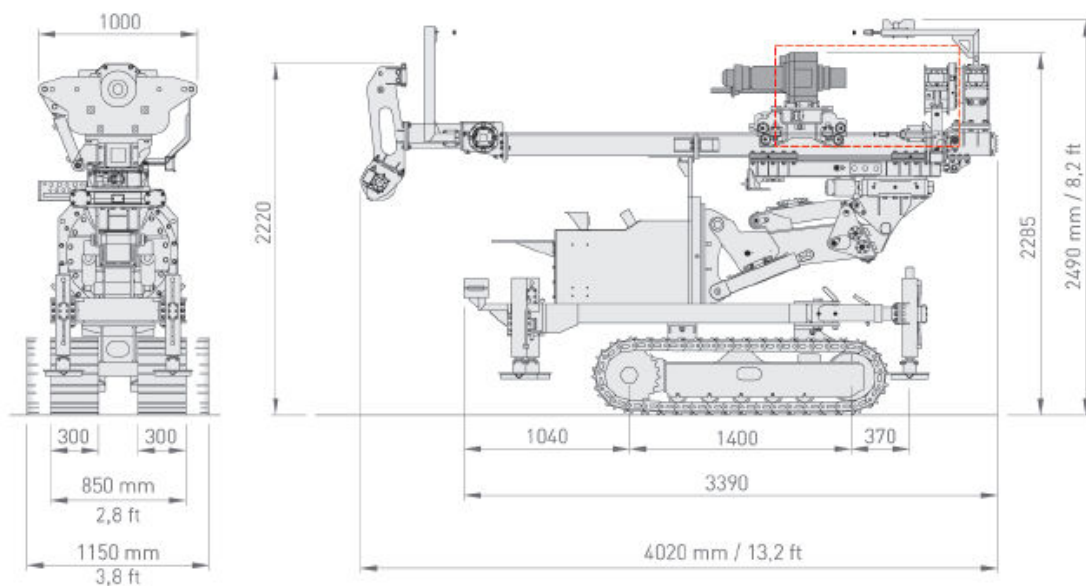
- Maximum feed force 3000 kN
- Maximum retract force 3500 kN
- Maximum tramping speed 0-1.5km/hr
- Maximum ground pressure 90 kg/cm²
- Clamp range 45-325mm
- Weight drill rig 4750kg
- Weight hydraulic unit 2650kg

Mast with single head carriage:

- Feed stroke 900-2100mm
- Total length 2200-3400mm

Rotary head:

- Weight 330 kg
- Torque 225//525/1050 kNm
- Speed 140/70/35 rpm



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