

Comacchio Introduces New Rigs the CH 450 and the MC 22A



Piero Guardigli, Project Manager of the CH range and coordinator of Comacchio's Foundations Division, presented the new drilling rig CH 450, part of the new line for large diameter drilling during the recent Comacchio Open House. The line will soon be expanded to include larger models and dedicated machines for CFA technology. CH 450 tells you what kind of rig, CH stands for Comacchio Heavy, while 450 indicates the weight category, amounting to 45 tons.

Features of the CH 450

The CH 450 is the ideal solution for job sites that require fast operating time. The machine is totally

self-erecting, and can be transported as one piece with the kelly mounted. Once in place, the machine is easily downloaded from the truck and set-up without the need for crane service. Lifting of the mast takes a few minutes and can be performed in complete safety.

The CH 450 is designed to cover a wide range of processes that include bored piles, continuous flight auger (CFA piles), micropiles, displacement piles and soil mixing. The machine can be supplied in the CPD (cylinder pulldown) and WPD (winch pulldown) versions and can be equipped with kelly bars with a maximum length of 13 to 13.5 m (CPD-WPD) and with different outer diameters. The innovative rotary quill adopted by Comacchio allows for the use of kelly bars of different diameters without the need of any adjustment, including HD (heavy duty) bars and XHD (extra heavy duty) bars. The rotary head offering high torque and

high speed is connected to a computer for the control and monitoring of the drilling parameters and performance. The computer is run by software that has been developed exclusively for Comacchio and is equipped with a 12.1" touch screen.

Performance

The maximum pile diameter in CPD is 1,500 and/or 2,000 mm, while in the WPD version it is 1,300 and/or 2,000 mm. The drilling radius goes from a minimum of 3,000 mm to a maximum of 3,800 mm. The maximum depth with friction kelly CPD-WPD is 62.5 m and 49.5 m with locking kelly. The operating weight without tool amounts to 41,000 kg in the CPD version and 42,500 kg in WPD version. In the CFA version, the CH 450 can be used with augers up to 1,000 mm diameter and 16.5 m in length, which can be increased to 22.5 with auger extension. A special CFA version of the machine that is able to achieve 25 m depth is also available.

The MC 22A

The range of machines dedicated to micro-drilling developed by Comacchio is the most extensive in the industry. Every year the Comacchio range is expanded with new proposals and this year it is the new MC 22 A. Based on the MC 22, the iconic rig of Comacchio's range, the MC 22 A features an innova-



tive rod and casing carousel. This carousel allows the handling of both single rods for open-hole drilling and the combination of rods and casings for overburden drilling. Because of a hydraulic gripper mounted on a special track parallel to the mast and to a rotating magazine containing the equipment, the carousel is capable of handling up to 7 pairs of rods and casings with variable diameters (up to a maximum of 114 mm for rods and 178 mm for casings). Another great advantage is the use of an innovative radio control system designed by Comacchio. Thanks to this system one operator can easily control from a single console all the machine functions, including tramming, set-up and drilling, and operate the carousel itself. In this way, the MC 22 A not only reduces risks related to the manual handling of the equipment, improving safety levels on the jobsite, but also allows the customer to increase productivity and reduce labor costs, as the entire work cycle can be performed by one person instead of two or three.

For more information visit the Comacchio website
www.comacchio-industries.it