

Comacchio's MC 16

The new MC 16 is part of Comacchio's extensive range of multipurpose rigs for vertical drilling applications. The machine was designed with a focus on micropile construction. To ensure fast and efficient micropile installation even under the toughest geological conditions, the MC 16 incorporates a robust rigid mast structure featuring a motor reducer feed/hoist system, delivering a 13-ton (28,600 pounds) pull-down and an 18-ton (39,700 pounds) pull-up force. Thanks to a slewing ring incorporated in the mast articulation system, drilling can be performed with a small inclination with respect to the vertical axis (up to 10 degrees depending on mast feed stroke). The MC 16 is designed to handle drill rods of different lengths, due to the adjustable mast feed stroke ranging from 2.8 meters (9 feet) to 6.3 meters (21 feet). The modular mast design makes the MC 16 ideally suited for operation in low headroom conditions. Moreover, the MC 16 offers the possibility to increase the mast feed stroke up to 8 meters (26 feet) with the addition of a mast extension. With a reduced

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 number of rod joints the MC 16 achieves greater depth in a short time thus increasing drilling efficiency. The MC 16 is equipped with a powerful rotary head, entirely designed by Comacchio, offering up to 5500 daNm (40,600 pound-foot) torque. The robust mast structure and high torque rotary head ensure that the MC 16 can adapt to any kind of rotary and rotary-percussive drilling methodology. The mast is equipped with a large double clamp and the patented Comacchio casing extractor offering up to 10.000 daN (22,500 pounds) extract force. With a clamping range of 85-530 millimeters (3³/₈ to 20⁷/₈), the MC 16 can handle casings and augers up to 500 millimeters (20 inches) in diameter. To ensure the necessary stability both during tracking and drilling, the MC 16 features a robust undercarriage with 2,500 millimeter (8 foot 3 inches) width and 500 millimeter (20 inches) pads. The rig is equipped with a powerful 160 kilowatt (214 horsepower) diesel engine, complying with Tier 4 Final emissions standards. Last but not least, the MC 16 is entirely radio-controlled thanks to the innovative Comacchio radio control system, managing all machine functions including tracking, set-up, and drilling. Radio remote control not only increases operator comfort, but it's also critical for safety on site. The new MC 16 will be on display during IFCEE 2024 in Dallas at the ICE (International Construction Equipment) area, one of Comacchio's US distributors. ▲

