

Comacchio Launches The CH 850

The CH 850 is the latest addition to the Comacchio CH line of piling machines and is currently the largest multipurpose unit in the range. It is an advanced multipurpose machine in the 97-ton weight class, resulting in high performance and efficiency when used in foundation construction projects. It is engineered for high productivity, versatility in drilling methods, and ease of transport, while maintaining a focus on operator comfort, safety, and reduced environmental impact to deliver a greener, healthier, and safer jobsite.

The CH 850 has telescopic, removable, industry-leading longer tracks, providing enhanced stability, but with reduced ground pressure and lighter transport. The counterweight has a hydraulic remote-controlled lifting system to make transport easier and safer. To reduce transport weight and dimensions, the CH 850 can be lightened by removing sections, to a minimum transport weight of 51.5 tonnes (113,500 pounds), making it easy to move a big rig around the country.

The rig comes with a Volvo diesel engine, which can be supplied with either 470 or 550 HP configurations in Tier 4F emission standards, depending on the applications. Much attention was paid to the cooling of the engine compartment: an innovative fan drive system ensures

optimized cooling, that also results in lower noise emissions, higher efficiency, and reduced fuel consumption. So not only powerful but quieter, with less wear and damage from heat and better fuel economy.

The CH 850 has a truly innovative hydraulic system, that goes beyond the conventional use of load-sensing technology. Comacchio designed an advanced electronic control of the pumps and the valve blocks, where the pump always delivers, with precision, the flow/pressure required according to the functions activated by the operator. The result is a considerable reduction in power losses (more torque to the drill head) and fuel consumption, marking another step forward in Comacchio's ongoing effort to provide more efficient, problem-free, and sustainable drilling equipment.

The CH 850 stands out from the rest of the pack when comparing rotary torque and machine weight. The exceptional performances of the machine are guaranteed by the high-torque rotary head delivering up to 265,500 foot-pounds torque and 60 rpm maximum drilling speed. It has a 7-speed gearbox with both manual and automatic speed settings that gives the maximum RPM at any given torque, resulting in an increase in your drilling production.

The rotary functions include spin-off and auto spoils shaker.

The CH 850 features a crowd winch system that makes this rig a truly multipurpose unit that can be configured for other drilling methods used in today's construction environment, where Kelly drilling is not suitable. The CH 850 drill axis can drill piles with up to 8-foot-2-inch diameter without the tool touching the mast and 9-feet-10-inch with a short mast foot. The maximum Kelly drill pile depth is 298 feet, thanks to the modular mast structure. Other methods without Kelly bar allow for the use of augers with up to 48 inches diameter to drill to 90 feet deep in one pass.

As with all the CH-line rigs, the CH 850 is controlled by the Comacchio Control System (CCS), which provides full electronic control of all machine functions and advanced diagnostics. The system ensures user-friendly operation through a 12-inch touchscreen, easily switching from one machine configuration to the other, providing full information on engine and machine parameters, including working tool selection (Kelly/augers) for torque adjustment, automatic mast verticality, drilling depth measurement, working radius measurement, etc.



The cabin of the CH 850 is designed to provide maximum comfort and safety for the operator. It boasts strong protection against external impacts, along with a protective grate on the front and top for added security. The roomy cabin, equipped with sliding doors, offers excellent visibility, while the soundproofing ensures a quieter, more focused working environment. For enhanced safety and visibility, the cabin is equipped with four AI-powered strategically placed cameras, which offer an all-around view displayed on an in-cab monitor. Additionally, the standard configuration of the CH 850 includes a remote radio control that can be used for remote engine start-up and machine rigging/de-rigging, a great help when tracking in tight spaces, with limited operator visibility. ▲

For more information, visit:
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