

# Quadruple launch

Italian drill-rig manufacturer Massenza continues to invest in technical development: this year the company has already designed, produced and sold four new drill-rig models

**M**assenza's drilling rigs are not produced in series but tailor-made according to the particular needs of the client. Continued research and development guarantees that the company designs new models every year, featuring both large and small innovations.

## FROM ITALY TO CHILE

The MI8 is one of Massenza's new designs; it will take the place of the MI6, introducing a new look coupled with many improvements. Besides the mast with 6.5 to 12t of pullback by gearbox, Massenza has designed a new mast with 8t pullback driven by a hydraulic cylinder.

The company has recently dispatched one MI8 with this special mast to Chile to perform diamond-core drilling for mineral exploration.

This version is equipped with a rotary head with a maximum speed of 1,200rpm.

An arm placed at the bottom of the head enables the loading/unloading of the drill pipes. The charging system is controlled by a radio remote-control panel that increases the comfort and safety of the operator.

A wireline winch (max 600kg; wire length 302m; speed 107m/min) is used for the extraction of the samples, and these operations are now faster and easier than before. The rig is powered by a 156hp (115 kW) diesel engine.

## EASIER MAINTENANCE

Maintenance issues were one of the major considerations while Massenza was modifying its MI9



*The new MI8 rig introduces a variety of improvements over its predecessors*

**“Continued research and development guarantees that the company designs new models every year, featuring both large and small innovations”**

rig model to create the new MI12.

The hose carrier fitted as standard to the mast makes the work area cleaner and protects the hydraulic hoses from wear. The rig can be equipped with three different types of mast from 9 to 12t of pullback (with double speed in order to increase the productivity).

All masts can be fitted to handle drill pipes from 3 to 6m in length and casing up to 9m. The rotary head can be chosen from several types in order to match with different scopes: torque up to 16,500Nm and speed up to 1,200rpm.

## DEEP DRILLING

Massenza has also designed a new version of its MI28, specifically conceived for deep-core drilling up to 2,000m.

The rig is equipped with an automatic drill-pipe charging sys- ➤

*Massenza's new MI12 rig has equipment designed to make maintenance more convenient*



The new MI12 (left) has been developed to maximise ease of maintenance, while the upgraded MI28 (centre) is specialised for deep-core drilling



**“Massenza is present in more than 40 countries”**

tem that will assure maximum safety and a reduction of time during the loading/unloading of the drill pipes. The rig is capable of being handled by just two operators.

Its main features are a sliding facility for the mast with 2.25m stroke that enables inclined drilling at angles up to 45°. The

mast has a capacity of 35t and maximum pull of 34.2t.

The rotary head is designed for core-drilling applications and can produce up to 10,200Nm of torque and 1,200rpm of speed (with four gears). The rig is equipped with a wireline winch with a 2,000m-long wire and maximum speed of 185m/min.

## Worldwide

Massenza is present in more than 40 countries, covering all continents. In 2013/2014 the company expanded its market to South America (Peru, Chile and Brazil), and to Pakistan and Iraq.

### MULTIPURPOSE RIG

Massenza also offers a solution for customers looking for a multipurpose rig. It is now possible to perform water and geothermal, soil investigation and micropile drilling with one rig: the new MM4 model.

The machine is powered by a 101hp deck engine, the mast has a pull up of 4,000kg, and the rotary head gives up to 6,640Nm torque and a maximum speed of 286rpm. The mast can be placed in all positions with two rotary tables and can create holes in all directions. ▼



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