

Massenza Drilling Rigs: Quality since 1921

The **Massenza fu Giuseppe** Company boasts about 90 years of experience in the design and construction of drilling rigs and allied equipment. Through the years that followed, the continuous attention given to the mechanical and hydraulic sectors allowed the company to manufacture highly versatile and modern rigs. The wide experience gained and the ductility of the production process helped determine the realization of rigs oriented towards the satisfaction of customers' requirements. All drilling rigs are completely hydraulically driven and are very robust and therefore perfect for working in extreme conditions. Care is taken to ensure the rigs are built to a very high standard and are considered as to be extremely reliable thus reducing maintenance costs. They can work in a wide range of temperature from -15°C to more than 55°C. They can be assembled on truck, crawler or semitrailer in order to reach even the most inaccessible areas. Each rig is provided with comprehensive instruction and spare parts manuals which are extremely detailed and incorporate colored 3D drawings: ordering spare parts becomes really quick and easy. Thanks to its quality and performance, Massenza fu Giuseppe received



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important orders from South America, Africa, Europe and Australia this year for many applications as well as mineral exploration, water wells, seismic and geotechnical investigations. The company was the first to equip its rigs with two engines, one that powers the drilling function and the mud pump, and the other that drives the air compressor. ■

Atlas Copco's HB 4100 Breaker

Since last August an Atlas Copco HB 4100 hydraulic breaker has been deployed for underwater demolition near Giglio Island, Tuscany, Italy. The work is the first phase of a major maritime engineering operation in which Atlas Copco is closely collaborating with Sales SpA. For underwater demolition of granite rocks at a



Atlas Copco has extensive experience of dredging, excavation and underwater demolition

depth of ten meters, Sales SpA is using an Atlas Copco HB 4100 breaker, with a machine weight of 4,150 kg, attached to a Liebherr 984 tracked excavator mounted on a floating pontoon. Working "blind" in the cabin of the excavator, the operator relies exclusively on a GPS tracking system and instructions from the divers. One single blow with a flooded stroke chamber would damage the breaker. Therefore, to enable the HB 4100 to operate effectively underwater it is partnered with an Atlas Copco XAHS186 compressor. The compressor prevents water from entering the machine by blowing in compressed air. Channels for compressed air are standard on Atlas Copco hydraulic breakers, enabling them to be used underwater. A safety system immediately stops the stroke of the hammer if, for any reason, the compressor stops injecting compressed air. Gordon Hambach, Product Line Manager Hydraulic Breakers said, "We are working on projects of this type with a number of companies around the world and can offer a customized package comprising breaker and compressor, depending on water depth and breaker size. Customers are always welcome to discuss their specific needs with our specialist sales and technical personnel located at our Customer Centers throughout the world." ■



Rain: An International Company with Local Focus



The pressure regulator for electric valves allows setting precise output pressure adjustment

Rain offers customers a deep heritage of more than 45 years. Its reputation is grounded in manufacturing high quality, innovative and technically advanced commercial and residential irrigation products suitable for both the professional and DIY markets. The company's headquarters and ISO 9001:2000 manufacturing facilities are located in Milan, Italy and are supported by regional offices and distribution centers throughout Europe, the Middle East and the USA. Expertise in supplying major retail customers and broad export markets coverage ensures fast and efficient service to global markets. Rain prides in listening to customers to predict trends and meet market needs, this aids its engineering process resulting in an easy to use and quick to install product range. The company has 15 active patents, 4 of which were established in 2012. Rain provides a complete solution for professional irrigation installation including: battery operated controllers, controllers, sprinklers, electric valves (from 1/2" up to 3"), manifolds, fittings, valve boxes, venturi injectors and accessories. The retail product line covers the homeowners watering needs across hose end, micro irrigation, underground irrigation and mist cooling. For 2013, the company introduces two new exciting products. The new generation of IP68 rated battery operated controller "IDEA" is available for 1, 2 or 4 station. The large LCD screen and

easy programming combined with practical features such as 4 daily start times, independent irrigation duration, weekly calendar, budget, rain delay, sensor connection, position this product as a market leader. In addition, the innovative and industrial grade adjustable pressure regulator for electric valves allows setting precise output pressure adjustment using a simple to read pressure gauge and an easy grip regulation screw. ■

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Unrivalled reliability for:
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Seismic
Mineral research
Geothermal applications
Soil investigations

DRILLING RIGS

Since 1921

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