Schlosser-Pfeiffer GmbH, 65326 Aarbergen, Germany

Presentation of the reengineered RP 1225 T radial press at bauma 2010

Schlosser-Pfeiffer GmbH, a subsidiary of Hess Maschinenfabrik from Burbach (Germany), will again exhibit a completely functional Type RP 1225 T radial press at this year's bauma. The machine is designed to manufacture pipes made from concrete and reinforced concrete at nominal DIN 300 up to DIN 1200 sizes and an overall length of 2.5m. This display represents a particular challenge on account of the machine's geometrical dimensions and the problematical spatial conditions and time constraints during a trade show.

The machine's creation has only been made possible by radically reengineering its added value chain – beginning with an increase in the degree of prefabrication, continuing on with a minimisation of transport costs right up to shortening the time required for end assembly at the customer's premises. The radial press has been traditionally prefabricated at the Hess Maschinenfabrik GmbH headquarters in Burbach. The machine frame and assembly units have been restructured to allow the radial press to be preassembled mechanically, hydraulically, pneumatically and electrically.

Transport by sea is now possible without special packaging thanks to improvements in geometry. Just a few subassemblies have to be dismantled for transportation. The complete preassembled machine block can be delivered anywhere in the world on a 40' flat. Final assembly time has also been shortened as only very few subassemblies have to be installed on site at the customer.

Besides these easily visible external alterations, increases have also been made in the "inner values".
The safety concept was revised and, of course, complies with the latest provisions of law. This went hand in hand with updating the entire sensor technology. Additional sensor technology has been introduced with a view to enhancing user friendliness and ease of maintenance, e.g. for monitoring the concrete in the feed device and for checking oil levels in the drive unit. At the same time, the machine's user interface and electronic control unit have been improved.

The experience and suggestions of customers throughout the world were taken into account here. Logically related parameters have been grouped together so that setting up the machine has become appreciably simpler. Several new parameters have been added to ensure that the most varied types of pipes may continue to be produced on the radial press in conformance with the local aggregates available to the customer.

Control unit visualisation makes it possible to display all important parameters at a glance in a meaningful way. The indicator field displaysuccessfully employed for some years now for optically illustrating pressing tool compaction force during pipe manufacture kas been enlarged. The actual operative machine status is shown by means of the simple red-amber-green logics of a traffic light. As the machine operates fully automatically, this function enables maintenance employees and forklift drivers to easily verify from a distance whether everything is in the "green zone". This is occasioned through different information input being bundled and evaluated in the PLC. The aim with all these measures is to further enhance operational safety and, along with it, the machine's effectiveness in the customer's interest.

The machine can, of course, be supplied in a fully functional basic version or with various options. Later extensions to the facilities are also viable. One new option this year is a rapid change function for press tools. The system developed by Schlosser-Pfeiffer shortens press tool changeover times. Coincidentally, it has also created the prerequisites for manufacturing composite pipes with an inner layer of wear-resistant material in a cost-effective way.

On top of all this, the machine's drive units were also optimised. These have been better harmonised with the characteristic curve needed in reality for manufacturing pipes, yet without lessening the torque reserves required for the press tool. This has led to an increase in efficiency and a reduction in the electrical power supply required by approximately 20%. The machine's operating costs have been directly scaled down through this measure.

Through strictly accommodating its customers' wishes, Schlosser-Pfeiffer GmbH has been successful in lowering both the investment and operating costs for the radial press whilst, at the same time, enhancing its ease of maintenance and user friendliness.

Schlosser Pfeiffer will present an entirely reengineered RP 1225 T radial press at bauma 2010

The company has managed this without cutting back on its customary high quality and reliability.

FURTHER INFORMATION

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