Cleverly networked with Germany's most intelligent clamping system: Röhm goes Industry 4.0

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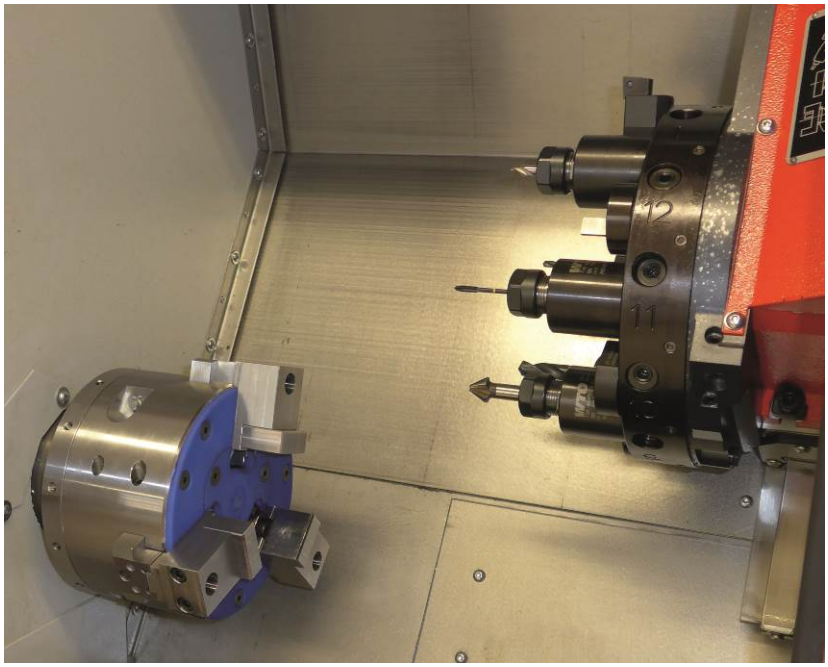
Industry 4.0 is making great strides and is omnipresent as a topic. However, solutions are often only recognisable as theoretical models. In many cases so far, specific applications are sought in vain in practice. Röhm is now showing a completely networked clamping system at the EMO in Hanover.

Specifically, it is an intelligent system that opens up completely new possibilities in workpiece clamping and beyond. The highlights are that the system allows the acquisition of clamping forces under rotating conditions and during machining, status data capture and predictive maintenance.

Multiple components that work perfectly together are involved directly in the process. At the heart is the intelligent and “East Württemberg Innovation Award” award-winning chuck actuated by an electric clamping cylinder. The data recorded there is processed in a central control unit that sends it wirelessly to a multitude of possible end devices, for example an on-site tablet. The data can also be viewed from any other place on earth. This is made possible by the Webview application, and thanks to a cloud solution, it is possible to access the acquired data at any time.

The specialists at Röhm explain specifically what that means: “Clamping forces can be set flexibly, depending on the respective machining situation. Adaptation of the clamping forces under rotating conditions enables, for example, reliable clamping even for delicate workpieces. In addition, information on the status of the clamping system can be retrieved at any time. That way, thanks to predictive maintenance, machine stoppages can be prevented or throughput times can also be accelerated. Last but not least, manufacturing processes can be optimised thanks to the process data that is obtained.

Hence, Röhm takes the challenge for greater flexibility and productivity as well as higher utilisation and machine availability. Workpiece warpage and manufacturing tolerances are also minimised, because the optimum clamping force can always be set. In short, rejects are reduced and the quality is increased.



Germany’s most intelligent chuck comes from the clamping and gripping specialists, Röhm.

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