

5-axis milling-turning solutions from EROWA

The route to 5-axis machining has never been more accessible, with smaller machine tools often based on 3-axis VMC structures with rotary trunnion tables added currently available for what, just a few years ago, would have been considered a very reasonable investment level. However, for manufacturers producing larger components the capital expenditure can be significant and this is where the appropriate workholding solution can pay dividends.



The Erowa MTS 2.0 (Modular Tooling System) is a flexible work fixturing solution. The maximum workpiece size is exclusively determined by the capacity of the machine tool. For single palletisation with an MTS chuck or multiple pallets with several MTS chucks or base plates, an extensive combination is available. MTS can be applied even to the complex high precision turn-

milling or mill-turning applications found in the aero engine industry and power generation sector.

As Managing Director, REM Erowa, Ian Holbeche, states: "On modern CNC machine tools, the mixed use of milling and turning allows a significant increase in productivity. The forces generated during machining are absorbed by the MTS 2.0. The use of the workholding system increases flexibility and productivity tremendously."

With high accuracy and clamping force as well as sophisticated monitoring, the Erowa MTS 2.0 workholding system is ideal for milling-turning applications. The modular design supports the use of the entire machine table with a position accuracy of better than 3 micron. The optimal choice of set-up distance and base plate version allows the machining of large and heavy workpieces. If required, palletised workpieces can be automatically loaded into the machine tool.

For milling-turning applications, specific MTS chucking spigots (type FD) are used. The increased diameter at the base provides stability for rotary movements. The F/D chucking spigots are compatible with any other MTS chuck and offer a reclamping force of 20 kN and a workpiece holding force of 60 kN per chuck. Each has been tested beyond 500,000 cycles so the investment also provides longevity.

Balanced pallets and fixtures are always securely and unmistakably seated in the base plate thanks to the indexing pin. Both the correct locking of the pallets used and the complete opening of the chucks are monitored with the MTS 2.0. This ensures safe and efficient machining at speeds of up to 1,200 rpm and ensures both product and process safety, as well as the wellbeing of the operator.

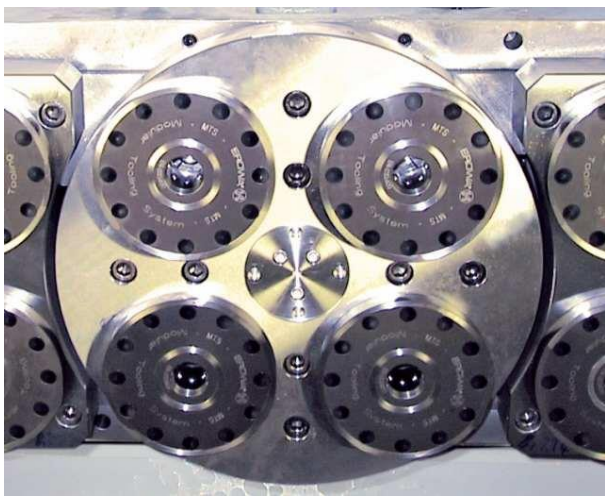
Ian Holbeche concludes: "For any precision engineering business starting into a new, efficient era REM Erowa is pleased to be with you on the way. As consultants and in practice, we have the knowledge and experience to support you at all times."

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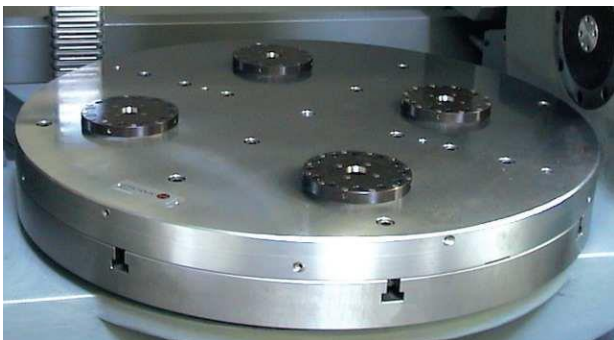
Images:



(MT1.jpg) The EROWA MTS 2.0 is designed to maximise milling-turning efficiency



(MT2.jpg) EROWA MTS 2.0 ensures product and process safety



(MT3.jpg) Each EROWA MTS 2.0 chuck offers 60 kN of workholding force

Note to Editors

REM Systems was established in the early eighties to service Swiss EDM machines. This activity brought the company into contact with the Swiss tooling and automation company Erowa and it has been its distributor in the UK and Ireland since 1987.

At about the same time, it also became the distributor for another Swiss company, TRIAG that produces multi-vice systems. Recently it became the distributor for a third Swiss company, FTool that manufactures EDM tooling systems. REM Systems association with these companies, coupled with many years' experience of machine tools and production engineering, means it is well placed to help customers in their pursuit of lean manufacturing processes.

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