

Polygonal tool interfaces for turning machines:

heimatec presents series tools with the new pti at the EMO

Already submitted for standardization approval, the new pti wants to allow improvements to quality and productivity in turning processes. heimatec, as a member of the extended circle of experts in the pti Working Group, on the occasion of EMO, presents a comprehensive range of series-capable tools in all pti sizes. In the heimatec INNOVATION AREA in Hall 5, Stand D34, the tools may be examined and tested for handling.



Improvements in workpiece quality, as well as increases in productivity during the entire process were the twin central themes in developing a new tool interface for turning machines. What emerged was the eight-fold rotary pti (polygonal turning interface), which has already been submitted for DIN (DIN 69108 – pti) standardization.

The particular characteristics of the turning machine pti

Owing to its high torsional rigidity and flexional strength, the pti is a high-load capable rotary interface, allowing high torque transfer. The interface permits a stronger motor shaft and along with the opportunity to implement a backlash-free coupling, milling performance for driven tools may be increased by more than 30%. On grounds of the high-precision geometry, in many cases tool alignment is no longer necessary. Owing to this and with the pti version quick-change system, machinery downtimes may be considerably reduced and productivity increased at the same time. Furthermore, pti tools are equipped for data and energy transfer and are thus I4.0 optimized.

Static holders and driven tooling units in all pti sizes

heimatec is a member of the extended experts' circle of the pti Working Group and is thus able to present series-capable pti tools at EMO 2019.

In the INNOVATION AREA of the heimatec exhibition stand, an axial boring and milling head, as well as a radial drilling head in the respective pti65 size, will be presented as driven tooling units. Furthermore, boring bar holders in all three sizes, pti45, pti54 and pti65, as well as a cutting-off tool holder and a turning holder in pti size 65, along with a static tool with a heimatec. Capto™ adapter may be examined. Visitors will have the chance to take on the task of a tool change on a rotary machine in person and so test the handling of the new interface.

Owing to the high-precision geometry of the interface with dimensional tolerances at the µm level, the highest possible requirements of production expertise are met. heimatec, as one of the leaders in quality for precision tools,

has extensive experience over many years and was therefore able to produce a usable tool range for the EMO in the shortest possible time.

heimatec has been specializing in the design, manufacture and distribution of high-precision static tool holders and driven tool units for lathes and machining centers for more than 30 years. The complete tool range encompasses around 30,000 products. heimatec is one of the leading international precision tooling companies in terms of technology and quality. Headquartered in Renchen, Germany, heimatec has fully-owned subsidiaries in the USA, Russia and India, and has a global network of business partners.



Image:

heimatec tools with the new pti

Image caption:

heimatec presents a comprehensive range of series-capable tools with the new pti at EMO

Image source:

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