

Tool innovation: heimatec.Cradle:

Inside operation on housing parts of machining centers

For sophisticated cutting tasks within housing parts, only specially designed tool units may be used. On the basis of the proven heimatec angled heads, the heimatec.Cradle product family has been developed. Arranged for optimal power and torque transmission, high-performance processing with the least vibration behavior is made possible. This product innovation will be unveiled by heimatec at the EMO Trade Fair stand in Hall 5, Stand D34.



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Halle 5, Stand D34
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Inside working on housing parts, such as the bearing seats for hydraulic pumps or hydraulic engines, sets high demands on tool units. The new heimatec.Cradle tool is a revolutionary tool system, which has been developed for high-precision inside operation on machining centers. Using the foundation of proven heimatec angled heads, the housing of the cradle tool unit is individually adapted to the geometry of the pump housing. In this way, the maximum rigidity of the tool system can be assured and as a direct result, precision processing may be achieved.

As in these special processing situations, the implementation of quick-change systems is generally not worthwhile, heimatec has implemented a specific interface for milling tools, in order to achieve the best processing results. So a powerful transmission ensures optimal torque transfer with maximum smooth running, as well as a support adapted for the machinery for the best possible transfer of processing power. Via both of these design attributes, high-performance processing may be assured with minimum vibration behavior. For efficient and reliable dissipation of heat caused by processing and shavings, the Cradle tool unit from heimatec offers either an external or an internal coolant supply.

Furthermore, heimatec's engineers have also given thought to the efficiency of the entire manufacturing process. As via individual adjustments, automatic tool changes for the machinery can also be used in most cases. Should this option not exist, with the heimatec Pickup-Station a custom solution is available, assuring storage place inside the machinery and thereby maximum process automation.

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.Cradle

Image caption:
Inside operation on housing parts of
machining centers with heimatec.Cradle

Image source:
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