

New Development: Hollow Axle Clamping System μ -PrisFix

HIRSCHMANN GmbH developed solution for precise positioning of work pieces for 360° machining of internal contours.

HIRSCHMANN GmbH introduces following new development onto the market: using the hollow axle clamber μ -PrisFix work pieces can be exactly positioned in a hollow axle or directly on the machine table without any effort. This offers the possibility of 360° machining of internal contours and even extremely complex shapes can be made. Up to now operators had to look for individual clamping solutions whose handling is much more complicated and less precise. This innovation is based on established HIRSCHMANN technology of patented clamping system μ -PrisFix for positioning of work pieces in metal-cutting machines with a repetitive accuracy of 2 μ m.

In response to numerous customer requests HIRSCHMANN GmbH now developed new hollow axle clamping system μ -PrisFix with the associated hollow pallet μ -PrisFix (work piece holder). Again and again operators were confronted with the question how work pieces can be positioned in a hollow axle. "Our new development is the best solution for this demand. For the first time we offer our customers the possibility of complete machining of internal contours using our ultra precise clamping method", Rainer Harter, CTO of HIRSCHMANN GmbH points up. During machining process work pieces can be set up and clamped on a presetting station outside the machine. Machining of work piece can be interrupted at any time to check processing geometry on a measuring machine. After measuring machining process can be continued at exact the same position inside the machine. Even this repeatability of position in the process chain is a main argument for choosing a HIRSCHMANN clamping system.

Individual solution for nearly all imaginable customer specifications

“It was a challenge for our designers to use the available space within the hollow axle in the best way”, says Norbert Weisser, team leader construction. To reach a maximum inner diameter for the work piece HIRSCHMANN developed a clamping mechanism that finds its place in a minimum assembly space – with greatest flexibility possible regarding the manifold requirements. “Our innovation consisting of μ -PrisFix hollow axle clamber and μ -PrisFix pallet can be adjusted to nearly all imaginable customer specifications”, Rainer Harter emphasizes.

The requirement to the system in principle is highest efficiency regarding assembly and change of work pieces during production chain. First of all, μ -PrisFix hollow axle clamber is applicable as zero point clamping system in sinking or wire EDM together with two-axial rotary indexing tables with through hole. Besides applications as EDM drilling, measuring technology, laser technology, HSC machining or further machining requirements of internal contours are possible. And, with this system, cutting of specific outer contours is also possible.

During development HIRSCHMANN GmbH closely worked together with the university in Karlsruhe (Hochschule Karlsruhe – Technik und Wirtschaft). Within the innovation program ZIM (Zentrales Innovationsprogramm Mittelstand) the company was supported by the Federal Ministry of Economics and Energy. “This can be seen as an evidence for the confidence of politics and science in the high technical competence, innovation capacity and the know-how of HIRSCHMANN GmbH in this scope”, says Rainer Harter.



μ -PrisFix Hollow Axle Clamber H1.5000 with pallet Picture: HIRSCHMANN GMBH

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About HIRSCHMANN

For more than 60 years HIRSCHMANN develops and manufactures trendsetting products amongst others for vehicle construction, motor sport, aerospace, railed vehicles, mechanical engineering, naval architecture and wind power plants. Core competences lie in the three product lines Rod Ends and Spherical Bearings, Rotary Indexing Tables and Reference Systems. In these sectors HIRSCHMANN has extensive expert knowledge and decades of experience. In addition to the wide range of our standard products we also offer customer-specific solutions. The medium-sized enterprise from Baden-Württemberg with sales subsidiaries in US and China now has about 200 employees. In 2018 HIRSCHMANN GmbH was elected into the TOP100 of most innovative medium-sized companies in Germany.