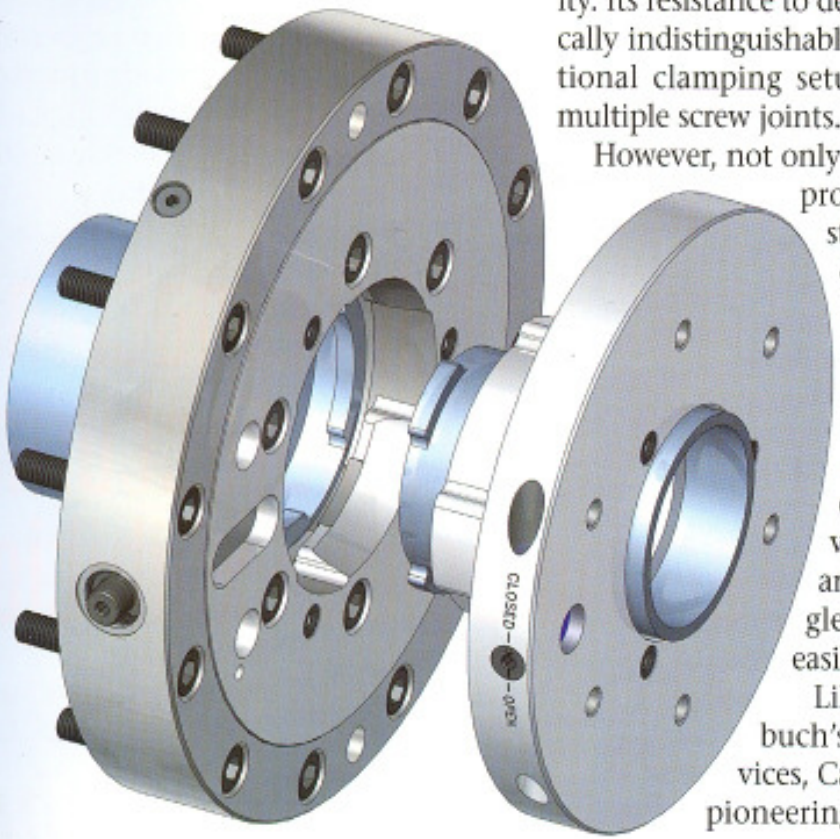
Zero-Point Clamping System Provides a Fixed, Precise, Rigid Solution That Can Also Be Changed in Seconds

The **CapteX zero-point clamping system** from **Hainbuch GmbH Spannende Technik** is impervious to both the centrifugal forces involved in turning and the extreme static transverse forces normally associated with milling. Thanks to an ingenious ring mechanism with sliding wedges, this machine interface can be fixed in place with a very high degree of stability. Its resistance to deflection is practically indistinguishable from a conventional clamping setup that employs multiple screw joints.



However, not only does the CapteX provide rigid and stable clamping; it can be changed quickly, too. The user can loosen and clamp the entire interface—including the clamping device's draw mechanism—with a single screw, which is easily accessible.

Like most of Hainbuch's clamping devices, CapteX utilizes the pioneering Centrex technology; precision steel balls vulcanized into a rubber ring ensure that the system positions with better than 0.003-mm repeatability. Extremely insensitive to contamination, since only the steel balls have point contact, CapteX can be joined and separated easily. The system is equipped with a positive-fit bayonet so that it can also be used safely on a rotating spindle.

Hainbuch's zero-point clamping system is configured for use on all conceivable machines. The interface enables all the machines in a production facility to be standardized in one stroke, and allows all the clamping devices in the facility to be swapped from machine to machine in seconds.

Currently, CapteX is available for stationary use on dividing attachments, turntables, and slow-rotating spindles (those running no faster than 1,800 rpm). A version for fast-rotating spindles is in development.

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