

Press release

September, 2022

Hainbuch expands quick change-over portfolio with Docklock zero-point clamping system for manual and automated change-over

To strengthen its position even further in the area of stationary systems, Hainbuch, the manufacturer of high-precision clamping devices, has acquired the Docklock zero-point clamping system from Vischer & Bolli AG in Switzerland. The Docklock system has been on the market for more than 20 years and its reputation in the stationary workholding field has been long established. Its features and user benefits match perfectly with Hainbuch's product philosophy. The products must be easy to use, process-optimizing, easy to set up, long-lasting and absolutely precise. Hainbuch has been offering quick change-over systems or zero-point clamping systems for lathes for many years, and now it is expanding its capabilities in the area of stationary systems. The four variants of the Docklock system now have Hainbuch branding. Both pneumatic and hydraulic variants are available for either manual or automated change-over.

A system that offers more than just quick change-over

The Docklock zero-point clamping system has two decisive advantages over other systems. The first is the form fit clamping with a collet or clamping segments, ensuring stiff clamping and higher repeatability. This also means that there are no pressure marks on the clamping bolt compared to systems with balls or slides, which lead to inaccuracies and consequently the need to replace the clamping bolts. Secondly, it is impervious to dirt and swarf which means less wear and less maintenance. The base plate, which is screwed onto the machine table, provides the base for a quick change-over. The zero-point repeatability is ≤ 0.005 mm without alignment. The clamping device combined with the Docklock, can be changed over in two minutes. The zero-point clamping system thus produces enormous savings in terms of production time and cost. Using the interface, setup can be performed outside the machine, thus avoiding lost production. The collet chuck lock ensures trouble free insertion and removal of the workpiece pallets. Direct

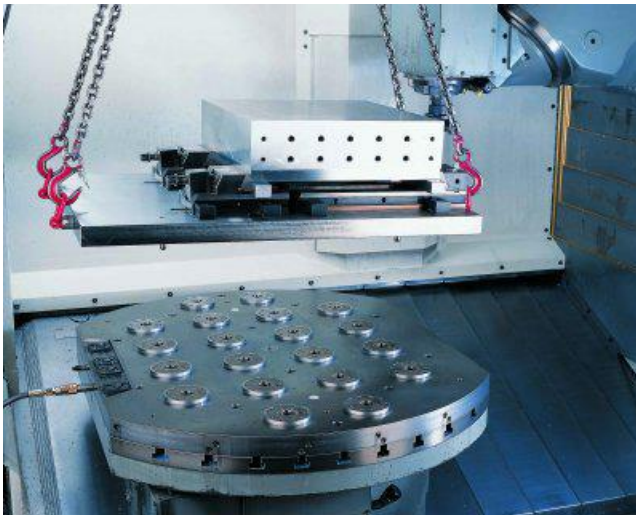
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installation on machine tables, pallets or fixtures can be implemented cost-effectively by means of flanged cylinders. This is also significantly less expensive than a plate changer or a machine table change-over.

Docklock AC – the zero-point clamping system for automated production

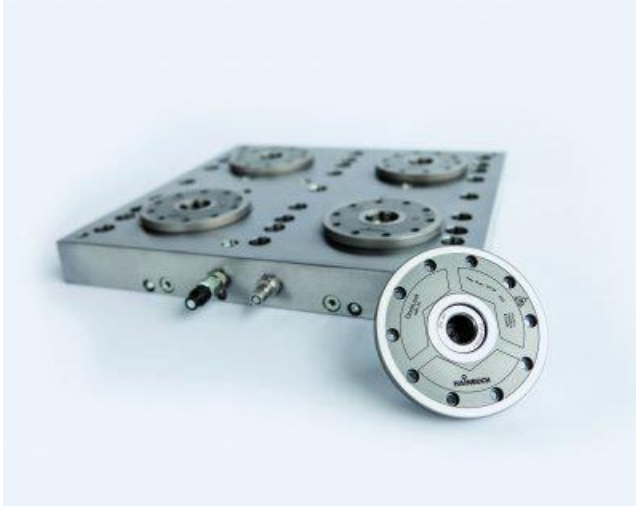
The form fit clamping and power transmission design features are identical to the Docklock for manual change-over. The same applies to the change-over time and zero-point repeatability. In addition, an automatic shutter at the clamping point prevents ingress of dirt and swarf. This ensures even less wear and less maintenance. It also has as standard features, contact control, air-blast support islands and piston monitoring for a safe automated process.

Pictures:



The Docklock zero-point clamping system in use in a machining centre.

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The Docklock zero-point clamping system in the hydraulic version for manual change-over.

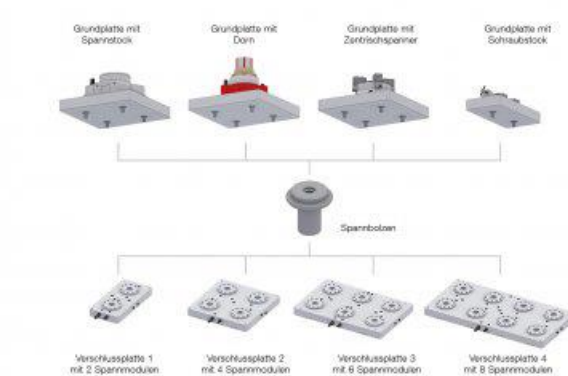


Automated change-over with the Docklock AC zero-point clamping system.

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The Docklock AC zero-point clamping system in the hydraulic version for automated change-over.



Options: Docklock quick change-over interface for stationary machining systems.