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**Durable clamping with the NiRo collet chuck Premium from Leitz - for long-term assurance of flexible and productive CNC machining with shank tools**

**High quality on the workpiece can only be ensured with high-quality tool clamping technology. To achieve this, the clamping device must combine consistently high holding forces with high precision. However, these requirements are in the field of increasingly complex work tasks, in which the overall system of clamping device and tool must guarantee high machining results in the long term, even under difficult production conditions. For example, the functionality of a clamping device must be guaranteed even under high air and/or material humidity. After all, the machining quality must remain permanently and consistently high and the tool lifetime must be maximised, and the breakage of the tool and thus damage to the workpiece must also be prevented.**

**Precise concentricity with high balancing quality**

With the NiRo collet chuck ‘Premium’, Leitz has developed a new clamping system with hollow shank taper that combines high changeover repeatability with flexibility and durability. Made entirely from stainless steel, the chuck guarantees corrosion-free surfaces for life, even in high air and material humidity, as well as precise, functionally reliable tool clamping. In order to fully utilise the advantages of the HSK adapter, Leitz focuses on precision and accuracy right from the production stage. With a taper angle of 2°52', the OZ collet enables higher torques to be transmitted than an ER collet with an 8° taper angle. The longer taper length of the Niro Premium also offers greater angular stability. At the same time, the ball-bearing clamping nut ensures low friction losses between the nut and collet and enables safe use in clockwise and anti-clockwise operations. In conjunction with the optimised trapezoidal thread and the increased guide length, this ensures above-average holding forces with a comparatively low tightening torque of 80 Nm.

**New key system, slim contour**

Depending on the application, the collets of the premium chuck can be exchanged quickly and easily to accept a wide variety of drill bits and milling cutters. The available collets cover the range from 6 mm (or ¼‘) to 25 mm (or 1’) safely and precisely. Thanks to the machine-side connection via the HSK-F-63 adapter, speeds of up to 24,000 rpm are possible. The high concentricity and balancing quality of the Niro Premium ensures a long tool life and a consistently high machining quality on the workpiece. In addition, the collet chuck is characterised by a particularly slim design, which improves accessibility to the workpiece and - thanks to the reduced interfering contour - allows optimised 5-axis machining. For easy mounting of collets and tools, Leitz has also revised the Premium's spanner system. The optimised spanner flats not only ensure safe operation during clamping and unclamping, the contour of the system is also up to 15 percent slimmer than comparable chucks.

All in all, this new solution shows in new dimensions why Leitz simply offers more. Expertise and reliability for more productivity, efficiency and quality when clamping and therefore for more safety and perfect machining results in CNC machining.

**The company**

Founded in 1876 in Oberkochen, Southern Germany, the Leitz Group is the worldwide leading manufacturer of tools for industrial processing of wood, wood derived materials, plastics, compound materials and non-ferrous metals. The product spectrum covers the complete range of precision tools for automated machines. In a complete package of advisory services, approximately 3,000 employees pass on their experience of cutting tools to customers so meeting daily the requirements of a complete problem solver and producing service provider. Leitz products regularly are used in more than 150 countries.. Together with its two legally independent sister companies Boehlerit and Bilz, Leitz forms the globally active Brucklacher Group. With a total of 16 production sites, its own sales and service companies in 38 countries at 137 locations and an exclusive partner network, the Brucklacher Group is a global player represented on all continents. The Brucklacher Group employs over 4,000 people worldwide and generates an annual turnover of around 450 million euros.

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Ein Bild, das drinnen, Zahnrad enthält.

Automatisch generierte Beschreibung

**ill. 1:** By using different collets, shank tools in the range from 6 to 25 mm can be clamped easily and precisely. (Photo: Leitz)



**ill. 2:** Stainless steel collet chuck Premium ensures maximum holding forces with an easy-to-apply torque of 80 Nm. The slim contour prevents collisions and enables work to be carried out in confined spaces. (Photo: Leitz)