

# Long extension is a lifeline in deep cavities

## Innovative module sets standards

Those in the tool and die industry having to carry out precision work in even the deepest of cavities can breathe a sigh of relief. At a recent exhibition, the Lauffen-based toolholding and workholding specialist Schunk Intec presented a long, slim hydraulic expansion extension that dispenses with the need for auxiliary equipment and can transform almost any precision toolholder into a versatile tool for narrow spaces independent of the spindle interface. The precise run-out, excellent vibration dampening and internal coolant supply ensure outstanding machining results and long tool service life.



The high-precision, fine-balanced Tendo extension allows users to change tools in no time using only an Allen key. A special feature for tool extensions is the position of the clamping screw that is operated radially from the side. This makes tool changing particularly convenient, and means that tools can even be changed when in the machine. The intermediate sleeves allow the operator to reduce the standard clamping diameter to suit your needs. This increases user flexibility even further.

The extraordinarily high torque of the hydraulically clamped extension ensures that tools are held securely for all boring, reaming and finish milling operations. A single Tendo extension can be fitted with a variety of standard tools, dispensing with the need for

expensive specialist tools. With its high versatility, radial clamping insertion, internal coolant supply and high torque, the innovative extension sets standards for quality, ergonomics, setup time and cost.

The extensions are now available in six different standard sizes with a shank diameter of 20mm (L1 is 150mm) or 32mm (L1 is 150mm or 200mm) with clamping diameters of 12 or 20mm.

## Versatile lathe chuck ensures high efficiency during turning

An all-rounder for high-precision clamping of workpieces on the lathe is the 3-jaw power chuck ROTA NCD from Schunk. All sizes of the all-rounder are being continuously improved with regard to rigidity. In this way, the universal lathe chuck expands its high performance even further. Users who process different workpieces on a single machine can now significantly reduce setup times and costs with this high-performance chuck.

On the one hand, because of the extremely large chuck through hole, very different bar diameters can be processed, and as a result the collet jaw system patented by Schunk prevents the chuck jaws from rising up. Stability increases and vibrations are reduced so even the smallest bar diameters are clamped with great precision using the collet jaws.

The ROTA NCD, in combination with multiple top jaws, makes numerous variants of I.D. and O.D. clamping possible. The user can choose between imperial or metric based serration, and thanks to a continuous T-slot in the base jaws, even extreme positions of the top jaws are possible. In order for the power

chuck to meet customers' increasing demands for quality, precision and performance, Schunk's revised series ensures that the chuck is even more stable and rigid. For the I.D. and O.D. clamping, long base jaw guides optimally support the chuck jaws and enable very high clamping forces in the long term. All-round hardened and ground functional components guarantee a high degree of true running and repeat accuracy. The wedge-bar system for power transmission and the low weight of the base jaws make high rotational speeds possible.

The user benefits in many ways. Because of the chuck's multiple possibilities, it can flexibly and quickly change very different setups. For example, instead of always switching between a collet chuck for bar machining and a conventional jaw chuck, with the ROTA NCD only the collet jaws are exchanged for top jaws. In addition, the user can perform various processes such as hard and soft turning in a setup without changing the chuck. All this saves valuable time and large investments for additional special chucks.



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