

Press Release

September 19, 2011

Clamping Technology/Toolholding Systems

TRIBOS Clamping Device:

Compact, cost-efficient, quiet

The TRIBOS polygonal clamping technology from SCHUNK is one of the world's most comprehensive programs for high-precision tool clamping. From micro to volume cutting, the patented clamping system of the competence leader for clamping technology and gripping systems scores with permanently high true-running accuracy, convincing vibration damping, and the possibility to pre-adjust the length to exactly where you want it. The innovative family-owned company showcases a completely modified universal clamping device at the EMO show now, which clamps all TRIBOS mountings quickly, precisely and energy-efficiently. The highlight: since the manufacturing costs were reduced, the new clamping device can be offered at a highly affordable price.

The fully automatic TRIBOS SVP-4 clamping device is more compact and lighter than its predecessor. Moreover, a new type of pump ensures that the device works more quietly. On request, it can be actuated with a 220 V alternating current from the grid, or for mobile use by battery. An intuitive operational concept simplifies the clamping operation. The required clamping pressure for tool change is continuously adjusted via a controller. Then the mounting is automatically actuated with the defined pressure in no time at all. Maintenance and service intervals can be individually defined and displayed. The design of the TRIBOS SVP-4 is particularly maintenance-friendly. In order to increase sustainability, software updates can be installed with a mini USB interface.

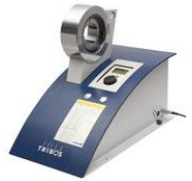
The TRIBOS polygonal clamping technology is available for all conventional machine interfaces. It is used in the automotive, aerospace, clock and watch industry, tool and mold building, medical technology, and in the machine and plant building industry. The one-piece mountings are mechanically resistant to outside pressure, and permanently ensure a maintenance- and wear-free clamping. Endurance tests prove that even after thousands of clamping operations no material fatigue will occur. Since the mountings are radially deformed during the clamping operation, and there is no expansion in length, tools of a minimum length tolerance of 0.01 mm can be adjusted. This is an important advantage towards thermal shrinking

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chucks, where the length reduces during the cooling phases. Moreover, tool change at ambient temperature is completely safe for the operator. The complete clamping operation is carried out in 15 to 20 seconds. Cooling lubricants evaporate during heat shrinking, unlike the expensive, energy-intensive heat shrinking unit where an exhaust air plant has to sometimes be installed. However, the TRIBOS clamping device won't empty your wallet or endanger the health of your operators.

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Captions

SVP-4	In the TRIBOS SVP-4 clamping device every type of mounting equipped with TRIBOS polygonal clamping technology can be clamped comfortably and efficiently.	
TRIBOS	Even in the field of precision engineering TRIBOS excels with a consistently high true-running accuracy.	

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