



Press release 06/06  
high-frequency tool holder

## Press release

### TRAUB SPR-X / SPR-Z high-frequency tool holder

#### High-frequency spindle for machining high-precision components

#### Speed increase from 5000 to 60,000 rpm in a minimum amount of space

Reichenbach. For many applications, high-speed machining is the top priority. If the machine-specific tool spindles are not capable of providing the speeds required for this, many machine developer frequently fall back on the known high-frequency spindles from special providers. These spindles from other manufacturers are usually expensive, have to be permanently installed and take up a lot space for installation, thus heavily restricting the freedom of movement in the working area and the machining flexibility. In addition to that, they require their own control devices and separate energy supplies.

A simpler, lower-cost and much more flexible alternative has now been provided by TRAUB Drehmaschinen GmbH & Co. KG in the form of the new tool holder equipped with high-frequency spindle: This tool holder, which was developed for mounting to the TNL26 CNC sliding headstock automatic, the TNL26K CNC fixed headstock automatic and the TNK36 CNC automatic lathe, allows the universal high-speed spindles to be used at any station. And all of that without requiring an additional control device or a separate energy supply. As with any other tool carrier, the high-frequency spindles can be mounted to the tool turrets as desired.

The new high-frequency tool holder is available in two designs: SPR-X has the drive axis mounted vertically to the tool drive axis and SPR-Z has the drive axis mounted at a right angle to the tool drive axis. By virtue of the extremely elegant design solution, the generator and separate motor are housed in a minimum amount of space. The tool drive speed of 5000 rpm is first increased mechanically to 15,000 rpm, which will drive the generator, which in turn will supply the integrated motor and drive it to the maximum speed of 60,000 rpm. This corresponds to an overall ratio of transmission of 1:12 within the tool holder and this in a minimum amount of space.

This in-house development gives the modular machine concept of the TRAUB TNL/TNK series a further innovative push towards benefit to the user, productivity and economy. The areas of application preferably include the machining of precision and high-precision components, for example in medical technology. Originally designed as a turn-mill center for bar work, these machines allow up to three (TNK36) or even four (TNL26K) tools to be used simultaneously and independently from one another. This has been made possible by each tool carrier having its own



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X- and Z-axis and, in some cases, even Y-axis assigned to it. The heavy-duty main and counter spindles are designed identically as motor spindles in synchronous technology. The motor power of up to 10.7 kW is unique. Increased power is also provided by the tool drives at 5.5 kW.

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**Pic 1:** High-frequency tool holder  
on the upper turret



**Pic 2:** High-frequency tool holder



**Pic 3:** Typical parts