



Press release 06/06
TNL26K

Press release

TRAUB TNL26K CNC fixed headstock automatic

Selective investment for powerful machining

Reichenbach. The TRAUB TNL26K fixed headstock version of the proven TNL26 CNC sliding headstock automatic has become established successfully on the market. In the TNL26K, up to four tools can be used simultaneously and independently of one another. What is innovative of a fixed headstock automatic in this size class is the fully functional Z-axis in the main spindle, which, in terms of control technology, is coupled to the bottom turret. This means that each tool system has an axis in the X and Z directions.

In the past, users have often used sliding headstock automatics for producing short turned parts, owing to the higher productivity. However, the guide bushing had always interfered in this. The company from Reichenbach has now come up with an innovative design that allows the guide bushing to be omitted entirely. The absence of a guide bushing gives the user, of course, an entire series of advantages. On the one hand, there is no need to use a high-precision bar stock (grade up to IT11), and the bar remnants are much shorter. On the other hand, setup times and costs can be lowered enormously. As for the costs: The setup of the guide bushing, which in some cases required a lot of time, is of course also dispensed with.

The TNL26K has been designed as a modular machine concept for bar capacities of up to 32 mm. In its basic version, the machine is equipped with a moveable headstock and a bottom tool carried fitted with X- and Y-axes. A Y-axis is required because the tools must be aligned exactly to the turning center for small workpieces. In the extended version, a counter spindle of identical design to the main spindle has been arranged coaxially to the main spindle. To allow the top tool turret to work independently, it is equipped with a Z-axis. However, the version considered near to perfect is the one that has mobile so-called front working and backworking attachments for the main and counter spindles. In this version, the outer contour is usually machined using the turrets, while the inner contour is machined at the front face by the already mentioned front working attachment. Once the workpiece has been completed on one side, it is picked up by the counter spindle. The counter spindle then moves to the backworking attachment, allowing the complete machining of the rear to proceed.



Press release 06/06
TNL26K

However, in addition to this large number of different versions, the TNL26K also has other highlights to offer. Thus, main and counter spindles have absolutely identical designs and have been constructed as liquid-cooled motor spindles in synchronous technology. Their motor powers of up to 10.7 kW are unique on the market and exceed those of comparable drives by about 30 percent. Increased power is also provided by the tool drives at 5.5 kW. This is particularly advantageous for complete machining. When talking about complete machining, the possible linear axes also have to be addressed. For the bottom turret, two linear axes, and for the top turret, three linear axes are provided. One linear axis each is located at the main and counter spindles, while the other two are located in the front working and backworking attachment, respectively.

Despite the highlights mentioned, the TNL26K has a very compact design and is readily accessible from both sides. The extremely fast TRAUB TX8i 64-bit control has the following standard features: visual control of the geometries, work sequence, collision (2D simulation) and user-oriented software for use, operation and optimization at the machine.

The advantages offered by the TNL26K can be summarized as follows:

- High productivity due to a simultaneous, independent machining with up to four tool carriers
- The innovative kinematics provides each tool system with an X-axis and a Z-axis.
- Saving in time and costs during setup and the required bar stock can be of lower grade due to the guide bushing that is no longer required.
- Modular design for configuring the machine according to parts-specific requirements
- Heavy-duty and complete machining made possible by extremely powerful drives in spindles and tools.
- Safe and comfortable working through excellent accessibility from both sides.

Contact: TRAUB Drehmaschinen GmbH & Co. KG
 Michael Czudaj
 Marketing Manager
 Phone: +49 (711) 3191-570
 Fax: +49 (711) 3191-778
 michael.czudaj@traub.de



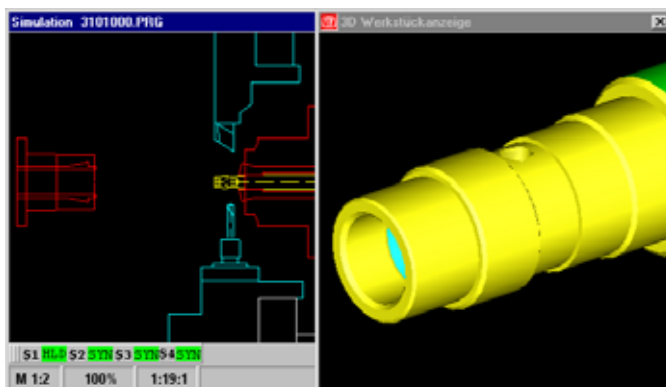
Press release 06/06
TNL26K



Pic 1: TRAUB TNL26K



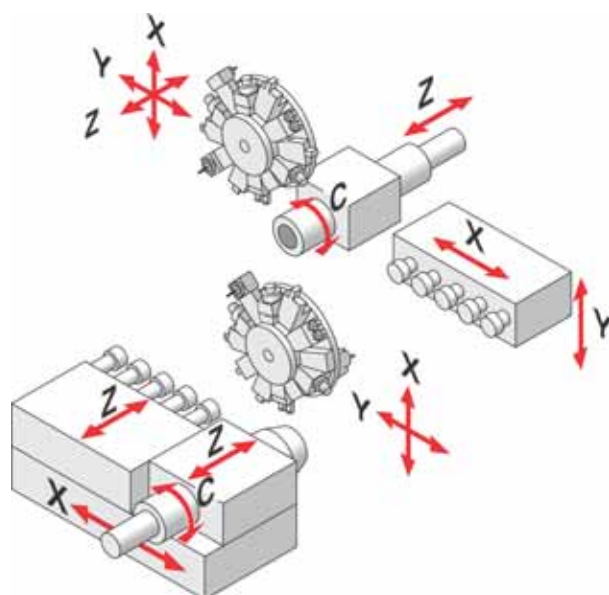
Pic 2: The working area



Pic 3: 3D simulation



Press release 06/06
TNL26K



Pic 4: The modular system