



Press release 06/06  
TNX80/65

## Press release

### TRAUB TNX80/65 turn-mill center

#### High-performance concept for machining without compromise

Reichenbach. With their TNX80/65 CNC turn-mill center, TRAUB Drehmaschinen GmbH & Co. KG have established themselves successfully in the field of heavy-duty machining. Their machine concept featuring a unique kinematics provides clearly improved flexibility and productivity. A compact cast iron machine bed of high torsional and bending stiffness carries the thermo-symmetric headstock and the slideways for the longitudinal slides and counter spindle slides. It offers excellent vibration damping, outstanding dynamic stiffness and high thermal stability. A bed inclination of 55° ensures unhindered chip fall.

The machine dimensions for bar capacities of 65 and 80 mm, chuck sizes of up to 210 mm and a turning length of 900 mm guarantee a wide range of applications, equally suitable for bar, chuck and shaft work.

The main and counter spindles are designed for high static and dynamic stiffness. The motor spindles in synchronous technology at a power of 22.6 kW (30.2 kW for D80), a torque of 180 Nm (240 Nm) and speeds of 5000 rpm (4300 rpm) are tailored especially to the range of parts to be machined. The life-time lubricated, play-free hybrid bearings guarantee maximum concentricity and optimal turning results. An integrated liquid cooling system guarantees high thermal stability and precision. The digital coupling of the servo-motors ensures very high contour accuracy and surface quality. With the absolute measuring system, the time-consuming reference approach system is no longer necessary.

In contrast to the turn-mill centers available on the market, all four tool carriers of the TNX80/65 can be equipped with a Y-axis. The turrets each have ten stations (stationary or live) designed according to DIN69880. With a shank diameter of 40 mm, the large-sized tool holders are a solid base, especially for use of live tools and in the case of multiple tool mounting. The patented tool holder positioning saves time-consuming adjustment of axial tools.

The vertical tool carrier is considered unique up to the present day. It is an upright 4-side turret having a 360°-B-axis. There are two tool mountings on each side. All eight tool stations are driven, and four mountings are designed as milling spindles with a torque of up to 74 Nm, while the focus of the other stations is on high speeds of up to 6000 rpm. The vertical turret allows, of course, heavy-duty machining on both the main and counter spindles.



Press release 06/06  
TNX80/65

It is used wherever special drilling and milling power is required, even at any desired angle.

TRAUB controls have always been known for their user friendliness. For the TNX80/65, the most advanced TX8i control was additionally equipped with new functions for time-optimized setup.

Thus, the control assists the operator optimally with integrated automatic tool measurement by video during the machine setup.

Other user-friendly features include the programming and visualization of the workpiece clamping, ejector position and bar position functions on the control monitor as well as the graphic, object-oriented programming.

The convincing features of the TRAUB TNX80/65 in terms of performance, flexibility and easy setup can be summarized as follows:

- Reduced cycle times due to a simultaneous, independent machining with up to four tool carriers
- Free allocation of the tool carriers to the two spindles.
- Simultaneous operation of up to three tools on the main spindle.
- Modular system for configuring the machine according to parts-specific requirements
- Large-sized tool change area minimizes the risk of collision
- Large tool stock (containing up to 80 tools) when twin tool holders and Y axis are used
- TRAUB control TX8i comprising extended functions for time-optimized setup.

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Press release 06/06  
TNX80/65



**Pic 1:** TRAUB TNX80/65  
turn-mill center



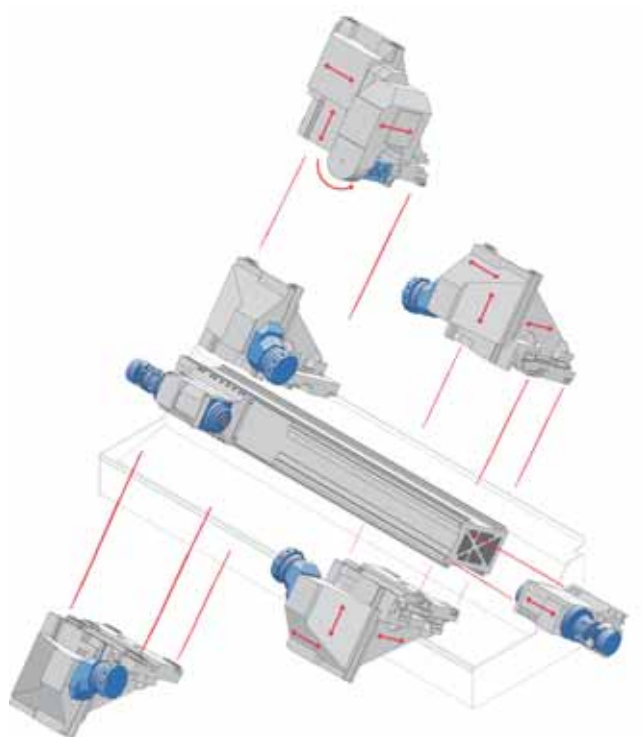
**Pic 2:** Working area  
containing 4 turrets



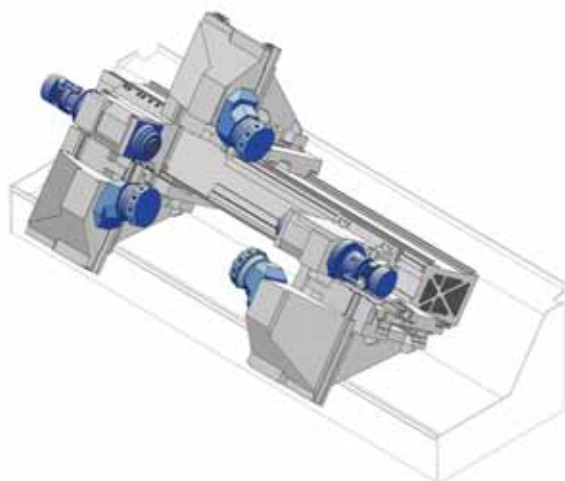
**Pic 3:** Vertical  
tool carrier



Press release 06/06  
TNX80/65



**Pic 4:** The modular system



**Pic 5:** Version containing 3  
turrets



**Pic 6:** ATC video