



## Product Information

### **TRAUB TNX65/42 with milling unit**

#### **Optimised heavy-duty machining**

#### **CNC turn-mill centre now with compact milling unit**

**Reichenbach. With its highly productive and flexible TNX65/42 turn-mill centre, Traub Drehmaschinen GmbH & Co. KG has set new standards in the field of heavy-duty machining. The TRAUB development engineers have now further enhanced the performance of the successful modular machine: An extremely compact gear milling unit extends the machining options.**

The innovative and proven kinematics of the basic machine remains unchanged, but the additional new B axis (swivelling range +/- 95°) of the milling unit considerably increases the machining options. The linear traverses of the milling unit in X are + 300 mm / - 40 mm, in Y +/- 40 mm and in Z 650 mm. The extended X axis allowing travels of up to 40 mm under the turning centre is very practical. The liquid-cooled milling unit with the tool mounting HSK-A40 offers a maximum performance of 10 kW, a maximum torque of 52 Nm and a maximum speed of 12,000 rpm. The two-speed gear unit has the transmission levels 1 and 0.33. The internal coolant supply of up to 80 bar (optional 120 bar), the clamping of the B axis, the clamping of the spindle for turning tools, a measuring system for the HSK clamping situation as well as a direct measuring system of the B (rotary) and X (glass scale) axes are additional highlights. The two bottom turrets can be traversed in the X, Y and Z directions and can be active independently of each other. The upper turrets are no longer necessary due to the considerable total traverse of 650 mm of the milling unit in the Z axis. This results in an enormous gain of space in the working area as well as in extremely short tool change times, which can be compared with those of tool turrets. In practice, it was possible to achieve chip-to-chip times of approx. 3 seconds. This fast tool change is the result of an intelligent shuttle solution of which various partial processes run in parallel. These simultaneously running partial processes and the tool provision process, which does not depend on the machining process, make it possible to reduce the cycle times considerably.

Additional advantages: Large tool stock which optimally meets the basic market requirement with regard to short set up times, use of stationary and driven tools, high rate of metal removal and safe coolant supply even for internally cooled tools.



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TNX65/42

The TNX65/42 turn-mill centre is designed for a broad range of application for bar diameters of up to 65 mm. The innovative kinematics allows processing workpieces with a length of up to approx. 300 mm simultaneously and independently at each one of the two spindles using up to three tools. This free assignment of the tool carriers to both spindles guarantees the highest productivity. Thus, the new TNX65/42 reaches cycle times that have been known until now only with multi-spindle automatics. The TNX65/42 is controlled using the new control unit version TX8i-s, which is completely compatible with all previous TRAUB control units.

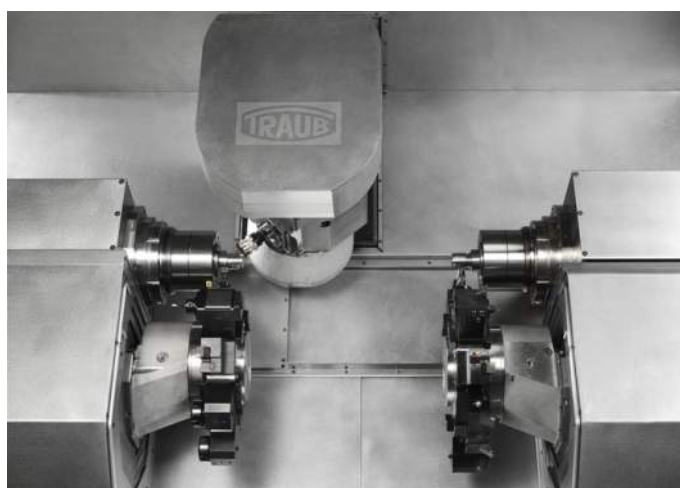
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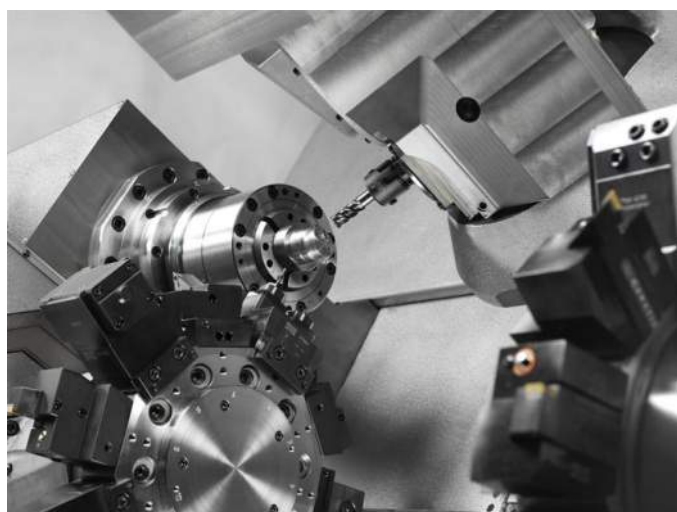
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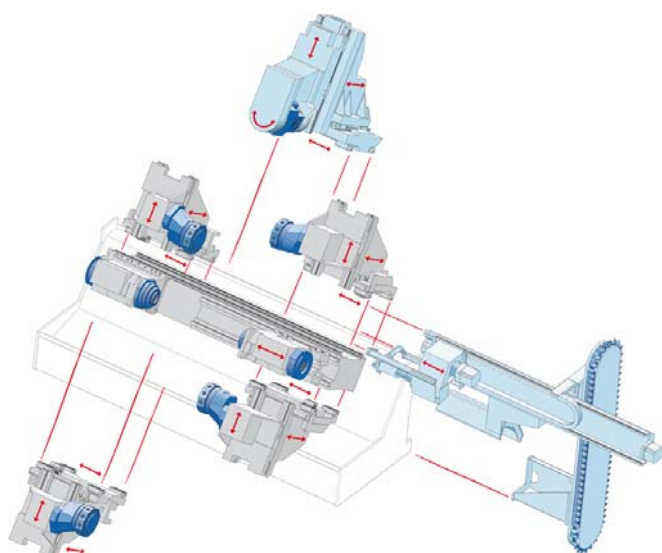
**Figure 1:**  
TRAUB TNX65/42  
with milling unit



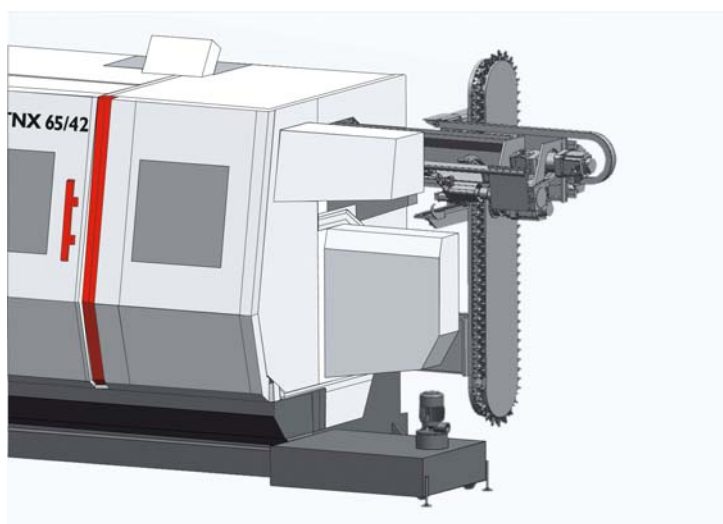
**Figure 2:**  
Unique milling unit  
simultaneous  
machining with  
3 tools



**Figure 3:**  
B axis with  $\pm 95^\circ$   
swivelling range



**Figure 4:**  
The modular system  
of the TNX65/42.  
NEW with milling  
unit and magazine.



**Figure 5:**  
Tool magazine with  
80 tool holders. Tool  
provision via a linear  
shuttle.