Press release dated 24.04.2023

**Sliding/fixed headstock lathe with particularly high power density**

**Even more compact than the sliding/fixed headstock automatic lathe TRAUB TNL32? “Nothing’s impossible” thought our developers. The result: INDEX will be introducing the new TRAUB TNL32 compact at the 2023 Open House. It fits into an even smaller footprint than the TNL20 and still boasts performance data that nearly match those of the TNL32.**

The new TRAUB TNL32 was designed for productive sliding and fixed headstock turning of medium and highly complex workpieces. It has two identical work spindles (8,000 rpm max., 9.9 kW, and 19 Nm at 100% DC) and two tool turrets (each with 8 stations, 12,000 rpm max., 1.5 kW at 100% DC), each with X, Z, and Y axis. The maximum bar clearance is 32 mm in diameter and a maximum turning of length 220 mm. The concept of the TNL32 compact machine is strictly tailored to the daily needs of its users. For instance, the machine’s kinematics allow for effective and simultaneous machining with two, three or four tools.

The work area of the TRAUB TNL32 compact ensures a very high power density for efficient production with compact dimensions. Moreover, the vertical work area concept provides optimal process reliability, combined with minimal setup effort. The machine achieves its decisive productivity gain with its outstanding dynamic properties based on a machine bed made from gray cast iron and vibration-damping feet. The high rigidity and thermal stability further ensure optimal workpiece quality.

**Configurable according to customer requirements**

The new compact TRAUB sliding/fixed headstock automatic lathe can be configured in the following three variants: TNL32-9 compact, TNL32-9B compact, and TNL32-11 compact. While the TNL32-9 compact features nine linear axes, two turrets (each with 8 stations, 12,000 rpm max., 2.0 kW), a back working attachment with four stations and an autonomous counter spindle, the upper tool turret on the TNL32-9B compact is equipped with an additional B axis.

The TNL32-11 compact variant includes an additional front-end machining unit with autonomous compound slide in Z and X axes as well as an NC swivel axis, i.e. a total of 11 linear axes. This additional upper tool carrier has six tooling locations, three of which are live and one that can be equipped with a double holder.

A rear end machining unit with four tooling locations mounted on the lower turret is available as an option for all versions. When fully equipped, the TRAUB TNL32 compact sliding/fixed headstock automatic lathe combines the productivity of a very high-performance automatic lathe with the ability to produce even the most demanding workpieces accurately and economically.

**The machine concept**

* Small footprint
* Generously dimensioned work area designed for process reliability
* Bar clearance up to 32 mm in diameter
* Up to three tool carriers and one rear end machining unit, all with Y axis
* Simultaneous machining with two, three or four tools
* Large tool pool for setup-friendly production
* Short tool change times owing to the CNC indexing axis in the tool turrets and in the front end machining unit
* Flexible hydraulic hollow clamping system on main and counter spindles for clamping tasks with collets and chucks

**Contact:** INDEX-Werke GmbH & Co. KG Hahn & Tessky

Rainer Gondek

Global Marketing Director

Phone: +49 (711) 3191-1286

[rainer.gondek@index-werke.de](mailto:rainer.gondek@index-werke.de)

**Figures:**



Image 1 : TRAUB TNL32compact



Image 2 : TRAUB TNL32compact workspace