

Press Release

Universal Lathe INDEX B500

A pair of universal machines for powerful machining and high precision

The common platform used by the INDEX B400 and TRAUB TNA400 CNC universal turning machines is now being expanded. The B500 and TNA500 add to the series with larger, more powerful spindles. All four universal machines feature fascinating highlights, such as an optional counter spindle for complete machining and a range of automation solutions.

Powerful and precise machining of customized flange and shaft parts, as required with rear-end machining and automation – this is what is promised by the “group of four” universal turning machines: the INDEX B400 and TRAUB TNA400, launched in 2018, together with the new INDEX B500 and the TRAUB TNA500. The four machine types all have a great deal in common. They use the same machine bed, the same cover, and the same inner cover. The slide system is also identical on all four.

One difference is the installed control technology. While the INDEX B400 and B500 are fitted with the latest Siemens Sinumerik 840D sl, the TRAUB TNA400 and TNA500 use the TRAUB TX8i-s V8 controller based on Mitsubishi controls. In addition, the main and counter spindles on the new 500 universal machines are one size larger. Instead of the A8/A6 spindle combination in the 400 series, A11/A8 spindles here ensure around 40% more power and torque.

Counter spindle for precise rear-end machining

To support long workpieces, the TNA series offers the possibility of using a tailstock mounted on generously dimensioned roller guides. As an option, however, the machines are also available with a counter spindle, which allows the user to use the parts machined on the main spindle for rear-end machining with precise positioning and concentricity.

Now also with VDI40 radial turret

In the counter spindle versions, all universal machines are equipped with the INDEX-typical radial turret. What is new is the possibility of selecting a radial turret with VDI40 holders instead of the previous VDI30 version, which enables a slightly larger turning diameter and provides the live tools with a higher torque.

The twelve stations of the radial turrets are equipped with the patented W-serration. Their profile ensures that the basic holders on the tool turret can be aligned reliably and quickly. Repeatability achieves results in the micron range.

Instead of the radial turret, installation of a disk-type turret is alternatively possible. It reveals its advantages, in particular, when using large solid drills or boring bars, since this design principle means that forces are transmitted vertically into the turret.

High efficiency through automation

The INDEX B400/B500 and TRAUB TNA400/500 universal turning machines excel in more than just small batch production. Options are also available for machining medium-size batches. There is, for example, an optional bar package for use in attaching a bar loader, which consists of a hollow clamping cylinder and a remnant and workpiece removal unit. This handling device can accommodate workpieces up to a main and counter spindle size corresponding to the bar clearance and place them on a conveyor belt.

Starting next year, the universal machines will be prepared for use with the iXcenter robot cell, which supports fully automated operation. Among other things, it includes a space-saving vertical storage unit with up to 22 stacked pallets. The robot loads the pallet storage unit with raw parts and can remove the pallets with finished parts at any time without interrupting production.

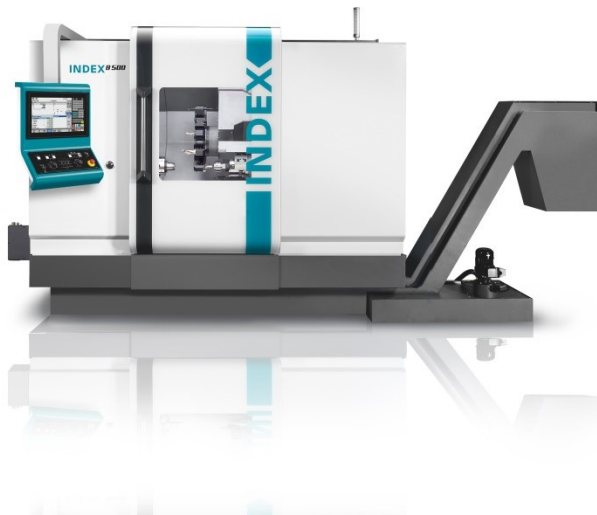
INDEX B400/500 and TRAUB TNA400/500

- Clearly structured and ergonomic work area concept
- Rigid mineral cast bed in 45° block design
- Working spindles with belt drive for high torque
- Optional counter spindle
- Radial turret for 12 tools with VDI30 or VDI40 holders
- Disk-type turret with VDI40 holders also available for TRAUB TNA400/500
- Optional bar package with integrated removal device
- iXpanel – i4.0 ready operating system

Contact: INDEX-Werke GmbH & Co. KG Hahn & Tessky
Rainer Gondek
Leiter Global Marketing
Tel.: +49 (711) 3191-1286
rainer.gondek@index-werke.de

Pictures:

Picture 1: The new INDEX B500



75

Picture 2: Plus point - The four universal machines are also available with counterspindle.

