

Press release 16.09.2019

INDEX C200 *tandem*

INDEX C200 *tandem* doubles your productivity

Even in its standard version, the INDEX C200 production turning machine is synonymous with productivity in single-spindle bar turning. The newly developed INDEX C200 *tandem* nevertheless succeeds in creating further potential for cost-effectiveness. Thanks to its unique concept, it doubles part output without increasing the amount of space, energy, or manpower required.

An innovative idea has become reality with the INDEX C200 *tandem* horizontal turning machine. In exactly the same machine housing as the INDEX C200, the main and counter spindles have each been replaced by a 52 double spindle, doubling production capacity. The three VDI-30 tool turrets that can be used simultaneously have remained the same in terms of their arrangement, power, speed and feed rate. What is new is a turret head that enables the mounting of five double tool holders. They are equipped with identical tools in pairs – fixed or live –, which are used in parallel on the main and counter spindles for front-end and rear-end machining. As a result, many former single-spindle machining processes can now be carried out with double spindles on the INDEX C200 *tandem*.

Automatic loading and unloading

When using the INDEX C200 *tandem*, which has been consistently designed for productivity, the bar material is fed by the specially developed INDEX MBL52 *tandem* bar loading magazine, which allows two material bars to be fed in at the same time.

The integrated handling device was also newly developed. Two grippers ensure that the two parts, finished at the same time, are removed, placed on a conveyor belt, and then quickly conveyed out of the machine without damage.

Quality and precision

The patented SingleSlide guide system is of course also used for the *tandem* version of the C200. It improves the damping properties and thus results in advantages such as up to 30 percent longer tool life and better workpiece quality.

Ready for Industry 4.0

35 The INDEX C200 *tandem* is controlled using the Siemens S840D sl, which in combination with an 18.5" touchscreen forms the basis of the INDEX iXpanel – i4.0 ready operating system. The latter is used, among other things, for complete integration of the machine into the customer's network structure, which is common in modern production environments.

40 Key to reducing costs

Doubled productivity

- Low personnel resources
- In a single machine footprint
- With barely more than 10% energy requirement

45 ➤ For only around 1/3 greater investment

The acquisition costs are thus significantly lower than those for two single-spindle automatic lathes with the same specifications, which would be required for the same parts output. And the operating costs are largely the same as those for a single machine. After all, there is no difference in terms of space and energy requirements, control cabinet, 50 hydraulics, chip conveyor, coolant system, and necessary personnel.

Both the main and counter spindles on the INDEX C200 *tandem* provide a bar clearance of 52 mm. With 20/25 kW, a maximum torque of 115 Nm, and a top speed of 4,500 rpm, they ensure powerful machining. The counter spindle slide supports high dynamic 55 response with a rapid traverse of up to 50 m/min.

INDEX C200 *tandem*

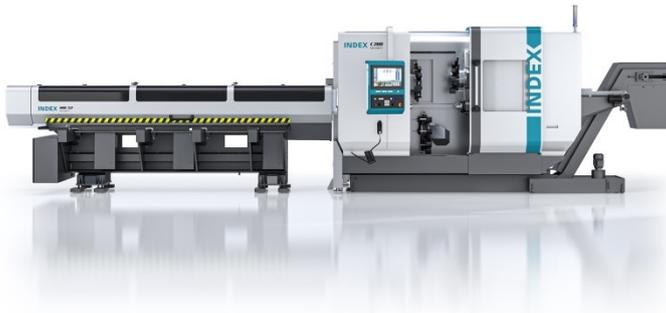
- Highly productive machining of bar stock turned parts
- 2x2 powerful motorized spindles of identical design
- 60 ➤ Generous work area with compact outer dimensions
- Ideal vibration damping and high dynamic response thanks to INDEX SingleSlide guide system
- Specifically matched INDEX MBL52 *tandem* bar loader
- Integrated removal device
- 65 ➤ iXpanel – i4.0 ready operating system with 18.5" touchscreen and Siemens S840D sl

70

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: INDEX production lathe C200 *tandem* with double spindle
- bar loader INDEX MBL 52 *tandem*



Picture 2: INDEX production turning machine C200 *tandem* –
working area

