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INDEX C100 / C200 with iXcenter

**Set for productivity**

**The INDEX C100 and C200 production turning machines with two or three turrets offer extremely high efficiency through the complete machining of complex bar stock turned parts. Of particular significance here is the INDEX SingleSlide guide system, which ensures an excellent dynamic response with ideal vibration damping. The two machines are now available with the iXcenter robot cell, an integrated automation solution that provides even greater productivity gains.**

Every aspect of the INDEX C100 (spindle clearance 42 mm) and C200 (spindle clearance 65/90 mm) turning machines is designed for maximum productivity. With two or three turrets, both machines are equipped to perform demanding simultaneous machining work. Thanks to the option of using two Y axes on the main spindle or one each on the main and counter spindles, the machines can handle complex operations to further reduce cycle times. Identical main and counter spindles ensure the required power. The counter spindle slide, which achieves rapid traverse rates of up to 60 m/min on the C100 and 50 m/min on the C200, also ensures an excellent dynamic response. Rapid turret indexing further further boosts productivity by reducing chip-to-chip times. The INDEX C100 and C200 production turning machines optionally integrate up to three turrets with 10 or 14 stations, allowing a broad range of parts to be machined. The turrets’ patented INDEX W-serrations help to achieve short setup times, allowing the machines’ benefits to be attained even when working with small batches.

A key distinguishing feature compared to conventional turning machines is the INDEX SingleSlide, a sliding guide with two degrees of freedom in one plane. It is composed of guide strips with a wear- and friction-reduced coating and hardened and surface-treated guide plates. INDEX SingleSlide markedly improves the machines’ damping properties, resulting in further advantages such as up to a 30 percent increase in tool life and higher workpiece quality.

INDEX’s consistent cooling concept also helps to ensure a high level of manufacturing precision. Heat that is generated in the spindles, the hydraulic unit, and the control cabinet is dissipated from the machine through a central fluid circuit. The energy is bound in one single medium and not dissipated to the environment of the machine. With an integrated water interface, INDEX provides two heat dissipation solutions: either connecting to a local cooling unit or to a central system. This makes it possible to adapt the machine to the specific production environment.

INDEX also offers a choice of CNC controls. Customers can choose between the FANUC CNC 31i-B with 15” touchscreen or the Siemens S840D sl, which with its 18.5” touchscreen is the basis of the INDEX iXpanel operating system. The latter is also used for integration in customers’ network structures and allows for virtually limitless data communication.

In order to further optimize the economic use of its production turning machines, INDEX offers a variety of automation options. These range from an integrated gantry-type removal unit, ensuring fast and damage-free workpiece removal, to the iXcenter robot cell that features a vertical pallet storage system and supports fully automatic operation. The iXcenter is docked to the machine to safely and flexibly feed and discharge raw and/or finished parts. During the setup process, it simply slides aside, enabling unobstructed access to the work area. During production, the iXcenter is fixed in front of the machine’s work area. The 6-axis robot (6 kg payload) accesses the work area via the primary door of the machine, which opens automatically behind the robot cell.

iXcenter features a space-saving vertical storage system with up to 22 stacked pallets (600 x 400 mm). Pallets with blanks are loaded at the top by the robot, while pallets with finished parts are removed at the bottom This can be done at any time with no interruption of production. Downstream processes such as cleaning, measuring, deburring, etc., can also be integrated in the robot cell.

Like other automation equipment, iXcenter can be integrated as an option in various INDEX and TRAUB production machines.

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