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INDEX SpeedLine A100C

Maximum output on minimum space

At the AMB, INDEX is presenting the production turning machine A100 Compact from the SpeedLine series. This is designed for highly precise machining of geometrically simple workpieces via cartridge feed. This turning machine achieves maximum output on minimum floor space.

Up to four cross slides, which are independent of one another and are of identical design, move over the vertically arranged machine bed of the production turning machine A100C. Up to four tools can be used simultaneously and independently of one another for a high level of productivity. The hydrostatic pillar guideway in the Z axis ensures optimal oscillation damping and thus extreme machining and repetition precision, even in series production. The freely accessible front-open work area with its doors arranged in a semi-circle and which can be moved backwards offers a surprisingly large free area despite its compactness. This design, in combination with the vertical machine bed, facilitates a very favorable swarf drop and thus high process reliability for the user.

The swivable switching cabinet ensures comfortable access in the event of a repair. The production turning machine is equipped with the Siemens control Sinumerik 840D solutionline. The operating panel is integrated in the front end of the control cabinet, thus underlining optically too the extremely compact overall impression of the machine.

The work spindle is designed in proven INDEX technology. It is cooled by liquid which ensures an even cooling of the motor winding. An innovative cooling concept, via an integrated water interface, facilitates the transport of heat away from the machine either via a local cooling device or a central system so that the machine can be ideally adapted to the production environment.

Technical data of the A100C production turning machines:

- Slide travel: X axis = 63 mm, Z axis = 85 mm
- Rapid traverse: X axis = 15 m/min, Z axis = 15 m/min
- Speed main spindle: 7000 rpm
- Drive power main spindle (100/40% duty cycle): 16.5/19 kW
- Torque main spindle (100/40% duty rating): 32/43 Nm
- C axis programming: 0.001 degrees
- Max. workpiece diameter 42 mm.
- Maximum workpiece length: 85 mm
- Maximum workpiece weight: 2.5 kg
- Floor space: 2122 mm x 1665 mm

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Fig. 1
A100C:
Maximum output on
minimum space

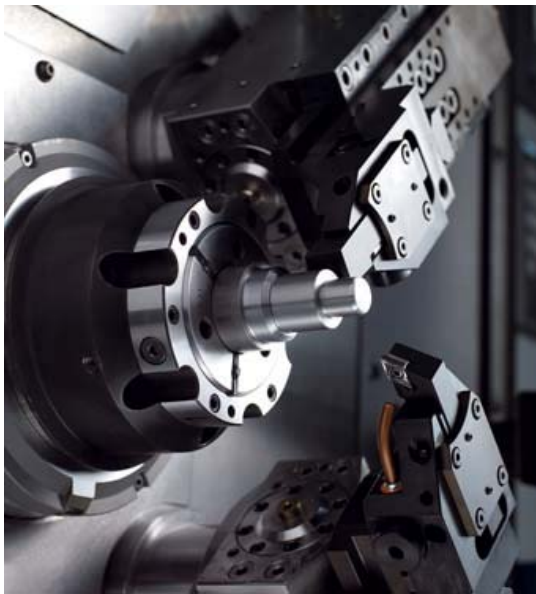


Fig. 2
Highly productive via
simultaneous
intervention of several
cross-slides