

INDEX

up to
15%
faster

ABC

The new generation



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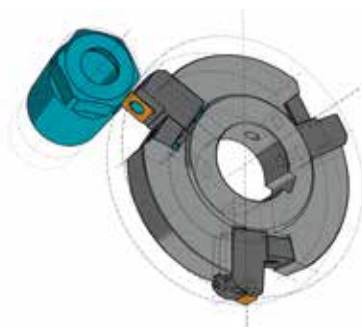
Unsurpassed power density

Boost your productivity with the latest generation of the INDEX ABC. The new Siemens S840D sl control, combined with the new INDEX main spindle (Ø 65 mm) now driven by a synchronous motor, provides a maximum of dynamic performance. Convince yourself of the faster axis accelerations, the shorter spindle ramp-up times, and the higher rapid traverses rates of the INDEX ABC automatic lathe for even more efficient production of your workpieces.

Technical data (excerpt)	Value 840C	New value 840D sl	Your advantage
Main spindle speed (Ø 65 mm bar capacity)	5,000 rpm	6,000 rpm	20 %
Upper tool turret / rapid traverse rate Z ₁	24 m/min	36 m/min	50 %
Lower tool turret / rapid traverse rate Z ₂	24 m/min	36 m/min	50 %
Main spindle ramp-up time to max. speed	1.2 s	1.0 s	20 %
Acceleration of axes X1, X2, Z1, Z2	0.3 g	0.8 g	166 %

Application: polygon turning

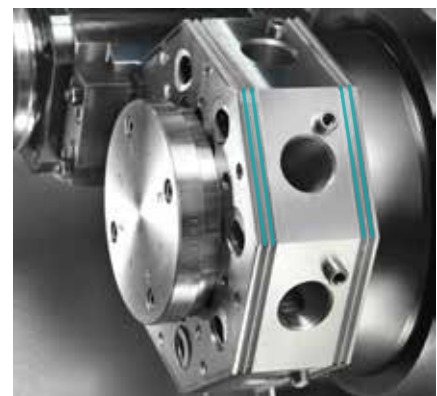
Thanks to an optionally available thread milling and polygon turning unit with a separate drive (6,000 rpm), for example, a hexagon bar can be produced even in steel with a perfect surface finish within a few seconds, for which milling cutters would need a multiple of time.



Material	SIZE: 14 mm / L: 10 mm	INDEX ABC	Milling with 2x Y-axis	Your time saving
CuZn39 Pb3 (2.0401)		approx. 2.5 s	approx. 4.0 s	37.5 %
11SMnPb30 (1.0719)		approx. 4.0 s	approx. 6.0 s	33 %
X8CrNiS 18 8 (1.4305)		approx. 10.0 s	approx. 12.5 s	20 %

Higher flexibility & productivity

- Turret 1:
 - Now with VDI25 tool mountings, with preparation for V-gib and W-serration
 - All existing ABC tool holders can be used
 - Possible with ECO-Fluid system of up to 80 bar coolant pressure
- Turret 2:
 - Now with tool drive (max. speed 6,000 rpm / max. power 4.2 kW / max. torque 10 Nm)
 - Up to 8 bar coolant pressure possible
- Back-boring stations: with ECO-Fluid system of up to 40 bar coolant pressure possible



Faster production of workpieces

Ring

Dimensions in mm	Ø42 x 15
Material	11SMnPb30
Tools in use	6
Cycle time 840C	35 s
Cycle time 840D sl	31 s

-12%



Fitting

Dimensions in mm	Ø49 x 33
Material	CuZn39Pb3 37
Tools in use	12
Cycle time 840C	102 s
Cycle time 840D sl	87 s

-15%



-11%



Shaft

Dimensions in mm	Ø10 x 48
Material	X8CrNiS 18 8
Tools in use	13
Cycle time 840C	65 s
Cycle time 840D sl	58 s

-12%



Aluminum housing

Dimensions in mm	Ø25 x 44
Material	Al alloy
Tools in use	12
Cycle time 840C	32 s
Cycle time 840D sl	28 s

Xpanel - i4.0 ready inclusive



The operating system for direct communication with your business organization:

- The latest control generation (based on: Siemens S840D sl)
- 18.5" multi-touch screen
- Preparation for information & data network for paperless production
- Open system – also for your own applications
- Included at no extra charge



Your benefits

- Compact design and high performance with unrivalled low space requirements
- Cycle time reduction through a highly dynamic work spindle and the latest control and drive technology
- Spindle clearance up to 65 mm / max. speed 6,000 rpm / max. power 27 kW / max. torque 145 Nm
- Simultaneous machining with up to 3 tools
- Live tools can be used on all tool holders
- Up to 5 rear machining stations (2 of which are live)
- Compatible with existing tool holders / plus INDEX W-serration and V-gib in the upper turret
- Optional: ECO-Fluid system for advanced manufacturing tasks and higher thermal stability with frequency controlled pump (Pressure levels – turret 1: 80 bar, turret 2: 8 bar, back-boring stations: 40 bar / coolant tank: max. 750 l)



For any questions on the INDEX ABC, please contact your responsible sales representative.

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