Turning Centers

SBL 500



> Turning center with rigid construction slant bed is designed not only for heavy roughing but for demanding finishing operations with focus on high accuracy and surface quality too. Exceptional steadiness of cutting process is ensured by high stiffness of individual machine components. Long-term operational reliability designates this machine for turning workshops with continuous operation and high productivity demands. Turning center can be operated in full automated mode when equipped with devices for automatic workpiece manipulation.









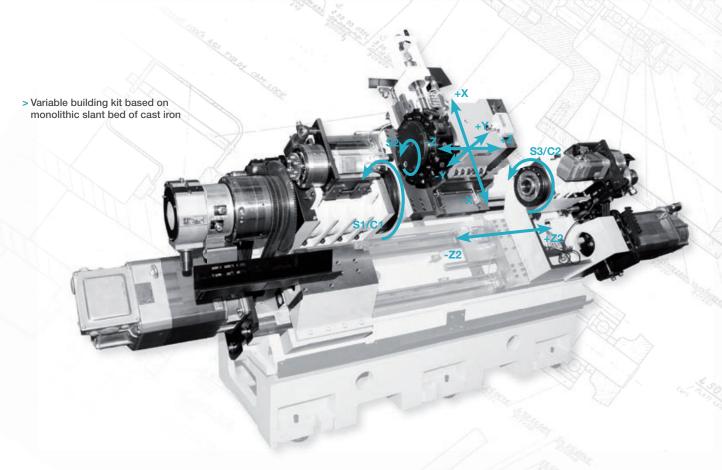






> MAIN ADVANTAGES

- High precision and productive machining of simple as well as complex shape workpieces
- Stable cutting process with high repeatable accuracy of machining
- Remote diagnostics and data management
- . Modular concept of the machine allows configuration tailored to the customer's individual requirements
- Variety of turrets with VDI couplings with or without live tools
- · Wide scope of executions and accessories clamping devices, bar feeders, tool probes, automatic door opening, vapour exhaust system
- The newest technologies in the field of drives bring savings of electrical energy



> STANDARD

- Control system SIEMENS 840D, software ShopTurn
- Drives Simodrive with energy recovery
- Vector controlled asynchronous motor for main spindle drive 22 kW
- Direct angle and rotation measuring through magnetic disc sensor integrated in the main spindle
- C-axis of the main spindle positioned through the motor of the main spindle
- Spindle bore 92 mm
- Hydraulic 3-jaw chuck, Ø 254 mm with inner passaging hole 75 mm, max. 4200 RPM
- · Electronic check of hydraulic clamping limit positions
- · Security locking system for hydraulic clamping systems
- Double foot switch to open/close main spindle jaw chuck
- Spindle brake
- Turning length 750 mm
- Without tailstock
- Linear rolling guideways

- Direct X asis measurement by linear scale
- · Automatic lubrication with controlled distribution of lubricant
- 12-position axial turret SAUTER Orange Line, VDI40 with live tools
- Chip pan
- Complete cooling agregate, pressure 0,3 MPa
- Manual door opening
- Positionable control panel
- Entering input and output parameters in metric/imperial units
- Input power 3×400 V/50 Hz
- · Transport device
- Operating manual
- CE execution



∧ Machining area



Axial turret

OPTIONAL EXECUTIONS

- Control system SIEMENS Sinumeric 840D SolutionLine, software ShopTurn
- Drives SIEMENS Sinamics S120 with energy recovery
- · Control system FANUC 0i-TD, software Manual Guide i
- Spindle bore 92 mm, hydraulic 3-jaw chuck, Ø 315 mm with inner passaging hole 75 mm, max. 2500 RPM
- Increased spindle bore 133 mm, hydraulic 3-jaw chuck, Ø 315 mm with inner passaging hole 118 mm, max. 2500 RPM
- Hydraulic collet clamping of various dimensions for all sizes of spindle bore
- Spindle brake
- Turning length between chuck and tailstock 1500 mm
- Programmable tailstock
- Hydraulic steady rest, clamping range 15-170 mm
- Direct axis Z measurement by linear scale
- · Chip conveyor on the right
- Cooling system with increased pressure 0,7 MPa
- Coolant filtration device
- Manual wash
- Oil mist collector



∧ Central lubrication

- Pneumatic door opening
- · Airconditioning for electrocabinet
- Preparation for bar feeder
- Bar feeder
- Tool probe
- Autotransformer for 220 V or 575 V
- 3-color warning light (operation signalization)

v Tool probe



v Axial turret and tailstock



V TECHNICAL PARAMETRES

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Main spindle			
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Spinde Done Done Spinde Done Spinde			
Spindle dismets in front bearing			
		mm	
Spinule drive	Spindle diameter in front bearing	mm	140/180*
Spindle drive W 22/30"	Max. spindle speed	min ⁻¹	4200/2500*
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Main motor culput S15	Spindle drive		
Section Sect	Main motor output S1		
Carriages and drives	Main motor output S6	kW	
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Company Comp	·		
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Company Comp			
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^{*} optional execution