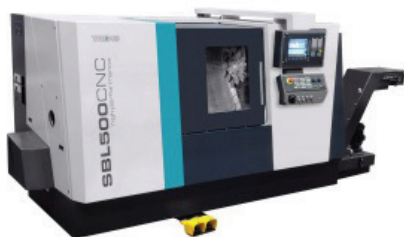


## TRENS SBL 500



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.

Most important features:



- 12-positional turret VDI 40 with/without live tool drive
- Remote diagnostics and data management
- Version with distance between centers of 1500 mm
- Direct spindle position measurement-high accuracy in out-of-axis machining at big diameters
- Wide scope of versions and accessories – hydraulic clamping devices with chuck or collet chuck, bar feeders, tool probes, automatic door opening, vapour exhaust system
- Machine covers with reinforced areas – high level of operator protection

### Working Range

Max. swing over bed	mm	630
Max. turning diameter	mm	410
Max. turning length	mm	750/1500*
Turning length between chucks	mm	
Max. bar diameter	mm	74/117*
Max bar diameter with bar feeder reduction bushing	mm	66/109*
		420
		215

### Main spindle

Spindle nose (DIN55026 A & ISO702-I A2)		A2-8/A2-11*
Internal spindle taper		METRIC 100/ - *
Spindle bore	mm	92/133*
Spindle diameter in front bearing	mm	140/180*
Max. spindle speed	min -1	4200/2500*
Max. spindle speed with reductor 1:4	min -1	
Chuck diameters	mm	254/315*

### Spindle drive:

Main motor output S1	kW	22/30*
Main motor output S6	kW	30,8/42*
Torque (as per version) S1	Nm	196 – 490*
Torque - 2nd gear S1	Nm	

## Carriages and drives

### X-os (VDI 30)

Cross slide feed range	mm.min -1	1÷10000
Cross-slide rapid traverse	mm.min -1	20000
Working travel	mm	270
Working travel with radial turret*	mm	

### Y-os \* (VDI 25)

Feed range of Y-axis	mm.min -1	
Y-axis rapid traverse	mm.min -1	
Working travel of Y-axis	mm	

### C-os \*

Continuous control	°	
Max. spindle speed	min -1	
Torque (as per version) S1	mm	

### Z-os

Longitudinal slide feed range	mm.min -1	1÷10000
Longitudinal slide rapid traverse	mm.min -1	30000
Working travel	mm	905/1655*
Working travel with radial turret*	mm	

### Z2-os \*

Counterspindle slide feed range*	mm.min -1	
Rapid traverse of counterspindle slide*	mm.min -1	
Working travel of counterspindle slide*	mm	

### Turrets

#### 12-positional axial turret SAUTER

No. of tool positions		12
Type of tool disc (12-position)		VDI
Tool shank diameter (according to DIN 69880)	mm	40
Max. tool cross-section	mm	25x25

#### 12-positional axial turret SAUTER with live tools\*

No. of tool positions	No. of positions	12
No. of driven tool positions		6
Tool shank diameter (according to DIN 69880)	mm	40
Coupling		B 17x14, DIN 5482
Max. tool cross-section	mm	25x25
Driven tools motor output	kW	6,1
Max. torque	Nm	13
Max. RPM	min -1	4000



12-positional radial turret SAUTER with live tools*	No. of positions
No. of tool positions	
No. of driven tool positions	
Tool shank diameter (according to DIN 69880)	mm
Coupling	
Max. tool cross-section	mm
Driven tools motor output	kW
Max. torque	Nm
Max. RPM	min -1

12-positional radial turret SAUTER s Y-axis with live tools*	No. of positions
No. of tool positions	
No. of driven tool positions	
Tool shank diameter (according to DIN 69880)	mm
Coupling	
Max. tool cross-section	mm
Driven tools motor output	kW
Max. torque	Nm
Max. RPM	min -1

#### Tailstock\*

Tailstock sleeve internal taper		MORSE 5
Tailstock sleeve travel	mm	125
Tailstock travel	mm	900
Clamping force range	daN	80-820
Tailstock control		NC programmable travel

	ROEHM
mm	25-158*
mm	15-170*
Mpa	0,5-2,5*
kN	6,0*
m.min -1	725*
m.min -1	875*
mm	1300*
mm.min -1	1÷3000*
	Cylindrický/konvexný*
	Centrálné olejové mazanie*
	ručne/vlek opierky*

#### Counterspindle

Spindle nose (DIN55026)	
Spindle bore	mm
Spindle diameter in front bearing	mm
Max. spindle speed	min -1



Chuck diameter mm

### Counterspindle drive

Counterspindle motor output S1 kW  
Counterspindle motor output S6 kW  
Torque (as per version) S1 Nm

### Counterspindle C-os \*

continuous control °  
Max. Counterspindle speed min -1  
Torque (as per version) S1 mm

### Machine dimensions :

Height mm 1935  
Width mm 1980  
Length with chip pan/with chip conveyor to the right side\* mm 3655/5460\*

Weight  
Weight – version with tailstock kg cca 6620  
Weight – version with counterspindle\* kg

Control systems  
SIEMENS 828D SolutionLine + ShopTurn yes  
FANUC 0iTD + Manual Guide i yes

