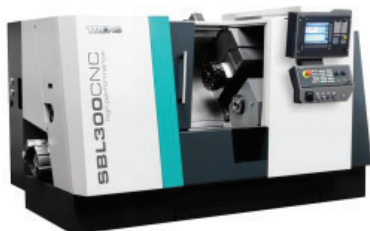


TRENS SBL 300



Machine designed for medium to large-series production for machining simple as well as complex shape workpieces. Execution with movable counter spindle allows complete workpiece machining and finishing at single machine which shortens production time and increases workpiece accuracy. This machine significantly contributes to increased productivity while considerably decreases investment costs. High variability of modular concept allows to build up optimal customized configuration from simple 3-axis lathe up to high productive 9-axis turning center for automated mode.



Most important features:

- High variability of building kit allows to build customized machine according to customer technological requests
- Optional versions with electro spindles
- 12-positional turret VDI 30 with/without live tools or Y-axis (size VDI 25)
- Remote diagnostics and data management
- Wide scope of versions and accessories – hydraulic clamping devices with chuck or collet chuck, bar feeders, part catchers, tool probes, automatic door opening, vapour exhaust system

Working Range

Max. swing over bed	mm	530
Max. turning diameter	mm	260
Max. turning length	mm	500
Turning length between chucks	mm	485
Max. bar diameter	mm	42/51*/74*
Max bar diameter with bar feeder reduction bushing	mm	34/43*/66*
		200
		80

Main spindle

Spindle nose (DIN55026 A & ISO702-I A2)		A2-5/A2-6*/A2-8*
Internal spindle taper		
Spindle bore	mm	57/65*/92*
Spindle diameter in front bearing	mm	80/100*/120*
Max. spindle speed	min -1	4000/5000*/3500*
Max. spindle speed with reductor 1:4	min -1	
Chuck diameters	mm	170/210*/254*

Spindle drive:

Main motor output S1	kW	7/9*/11*/15*
Main motor output S6	kW	10/13*/16,5*/23*
Torque (as per version) S1	Nm	79,7 – 215,7*
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	24000
Working travel	mm	198
Working travel with radial turret*	mm	168*

Y-os * (VDI 25)

Feed range of Y-axis	mm.min -1	1÷5000
Y-axis rapid traverse	mm.min -1	7500
Working travel of Y-axis	mm	+/-40

C-os *

Continuous control	°	0-360 step 0,001
Max. spindle speed	min -1	40/36*/32*
Torque (as per version) S1	mm	410/450*/500*

Z-os

Longitudinal slide feed range	mm.min -1	1÷10000
Longitudinal slide rapid traverse	mm.min -1	30000
Working travel	mm	550
Working travel with radial turret*	mm	485*

Z2-os *

Counterspindle slide feed range*	mm.min -1	1÷10000
Rapid traverse of counterspindle slide*	mm.min -1	30000
Working travel of counterspindle slide*	mm	530

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	30
Max. tool cross-section	mm	20x16

12-positional axial turret SAUTER with live tools*

No. of tool positions	No. of positions	12 positions / 12 driven
No. of driven tool positions		12
Tool shank diameter (according to DIN 69880)	mm	30
Coupling		B 15x12, DIN 5482
Max. tool cross-section	mm	20x16
Driven tools motor output	kW	4,5
Max. torque	Nm	17
Max. RPM	min -1	3000



12-positional radial turret SAUTER with live tools*	No. of positions	12 positions / 12 driven
No. of tool positions		12
No. of driven tool positions		12
Tool shank diameter (according to DIN 69880)	mm	30
Coupling		W16x0,8x30x18, DIN 5480
Max. tool cross-section	mm	20x16
Driven tools motor output	kW	7,5
Max. torque	Nm	20
Max. RPM	min -1	5000

12-positional radial turret SAUTER s Y-axis with live tools*	No. of positions	12 positions / 12 driven
No. of tool positions		12
No. of driven tool positions		12
Tool shank diameter (according to DIN 69880)	mm	25
Coupling		W14x0,8x30x16, DIN 5480
Max. tool cross-section	mm	16x12
Driven tools motor output	kW	1,5
Max. torque	Nm	9,5
Max. RPM	min -1	6000

Tailstock*

Tailstock sleeve internal taper		MORSE 4
Tailstock sleeve travel	mm	500
Tailstock travel	mm	
Clamping force range	daN	50-600
Tailstock control		NC programmable travel
		ROEHM
	mm	16-101*
	mm	8-105*
	Mpa	0,5-2,5*
	kN	3,5*
	m.min -1	800*
	m.min -1	850*
	mm	425*
	mm.min -1	1÷6000
		Cylindrický/konvexný
		Centrálné olejové mazanie
		NC programovateľný pojazd

Counterspindle

Spindle nose (DIN55026)		A2-5
Spindle bore	mm	57
Spindle diameter in front bearing	mm	80
Max. spindle speed	min -1	4000/5000*
Chuck diameter	mm	170



Counterspindle drive

Counterspindle motor output S1	kW	7/9*
Counterspindle motor output S6	kW	10/13*
Torque (as per version) S1	Nm	79,7 – 122,4*

Counterspindle C-os *

continuous control	°	0-360 step 0,001
Max. Counterspindle speed	min -1	40
Torque (as per version) S1	mm	410

Machine dimensions :

Height	mm	1820
Width	mm	2020
Length with chip pan/with chip conveyor to the right side*	mm	3320/4220*

Weight		
Weight – version with tailstock	kg	cca 3500
Weight – version with counterspindle*	kg	cca 4000*

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

*special execution

