TECHNICAL PARAMETRES

Machine type	Unit	SE 820	SE 1020
Working range			
Max. swing over bed	mm	810	1020
Max. swing over cross slide	mm	515	740
Distance between centres	mm	2000 / 3000* / 4000* / 6000* / 8000*	2000 / 3000* / 4000* / 6000* / 8000*
Height of centres over bed	mm	394	509
Max. bar diameter	mm	130	130
Main spindle			
Spindle nose CAMLOCK (ISO 702-4)		D11*	D11*
Spindle nose A2 (ISO 702-4)		A2-11	A2-11
Spindle bore	mm	133	133
Spindle diameter in front bearing	mm	180	180
Max. spindle speed - 1st gear	min⁻¹	415	415
Max. spindle speed - 2nd gear	min⁻¹	1600	1600
Manual clamping	mm	400/500*	400/500*
Hydraulic clamping*	mm	315/400*	315/400*
Spindle drive		SIEMENS / SIEMENS HEIDENHAIN* FANUC*	SIEMENS / SIEMENS HEIDENHAIN* FANUC*
Main motor output S1	kW	22 / 30*	22 / 30*
Main motor output S6	kW	30 / 45*	30 / 45*
Torque – 1st gear S1	Nm	2582	2582
Torque – 1st gear S6	Nm	4473	4473
Torque – 2nd gear S1	Nm	761	761
Torque – 2nd gear S6	Nm	1142	1142
Carriages and drives			
X-axis			
Cross slide feed range	mm/min⁻¹	1 : 3000	1 : 3000
Cross-slide rapid traverse	mm/min⁻¹	5000	5000
Working travel	mm	405/550*	450
Z-axis			
Longitudinal slide feed range	mm/min⁻¹	1÷5000	1÷5000
Longitudinal slide rapid traverse	mm/min⁻¹	6000/5000*	5000/5000*
Working travel	mm	1925 / 2925* / 3825* / 5925* / 7925*	1925 / 2925* / 3825* / 5925* / 7925*
Toolposts			
Quick change tool post		MultiSussse C	MultiSussse C
Max. tool size	mm	32×32	32×32
Quick change tool post		MultiSussse D*	MultiSussse D*
Max. tool size	mm	40×40*	40×40*
Manual tool post systems*			
Quick change tool post		Parat RD 4*	Parat RD 4*
Max. tool cross-section	mm	50×50*	50×50*
Automatic turrets*			
4-way turret without live tools*		SAUTER*	SAUTER*
No. of tool positions (DIN 69881)		4*	4*
Max. tool diameter	mm	80*	80*
Max. tool cross-section	mm	32×32*	32×32*
Axial turret without live tools		SAUTER*	SAUTER*
No. of tool positions		8*	8*
Tool shank diameter (according to DIN 69880)	mm	50*	50*
Max. tool cross-section	mm	32×25*	32×25*

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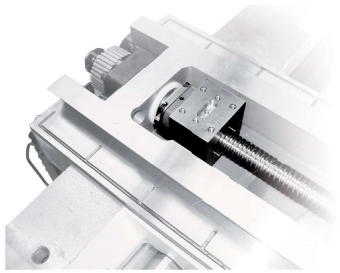
TECHNICAL PARAMETRES

Machine type	Unit	SE 820	SE 1020
Axial turret with live tools*		SAUTER*	SAUTER*
No. of tool positions		8*	8*
No. of driven tool positions		8*	8*
Tool shank diameter (according to DIN 69880)	mm	50*	50*
Max. tool cross-section	mm	32×25*	32×25*
Driven tools motor output	kW	5,7*	5,7*
Max. torque	Nm	35,7*	35,7*
Max. RPM	min⁻¹	3400*	3400*
Tailstock			
Tailstock sleeve internal taper		MORSE 6	MORSE 6
Tailstock sleeve diameter	mm	120	120
Tailstock sleeve travel	mm	210	210
Tailstock control		manual	manual
Clamping force range* (optional hydraulic tailstock sleeve travel)	daN	300/2500	300/2500
Machine dimensions			
Height	mm	2115	2115
Width	mm	2325	2325
Length with chip pan	mm	4604 / 5632* / 6680* / 8604* / 10604*	4604 / 5632* / 6680* / 8604* / 10604*
Length with chip conveyor to the right side*	mm	5865* / 6955* / 7955* / 9955* / 11955*	5865* / 6955* / 7955* / 9955* / 11955*
Weight			
Weight (without optional accessories)	kg	cca 7000 / 8000* / 9000* / 10000* / 11000*	cca 7000 / 8000* / 9000* / 10000* / 11000*
Control systems			
SIEMENS 840D Solution line + Shopturn		yes	yes
FANUC 0iTD + Manual Guide i		yes	yes
HEIDENHAIN MANUAL Plus 620		yes	yes

* optional execution



> **Preloaded ground ball screws** – high dimensional accuracy of workpieces

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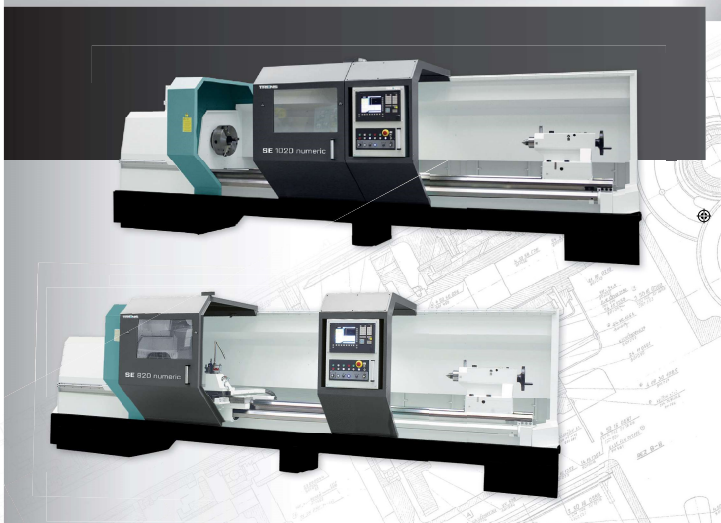
CNC center lathes

SE 820 > SE 1020



> **CNC centre lathes SE 820 and SE 1020 are designed for turning large rotational workpieces. They allow turning outer and inner cylindrical, conical and complex shapes and all kinds of threads as well. In combination with drilling and milling they allow machining of complex shapes from bars, forgings and split material. Wide variability in specific turning operations for gas, oil and water industries.**