



KOVOSVIT MAS
machine your future



KL 285 MC

Turning machining centre

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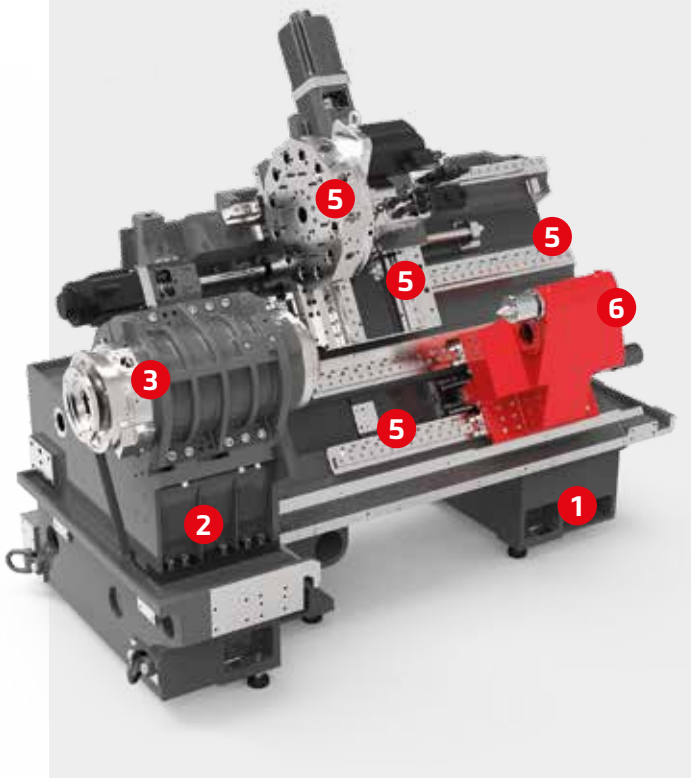
Main features of the machine

- Bed structure – 60° from horizontal surface
- Electrical spindle A6 (Siemens)
- Tool head (SAUTER VDI 40)
- Linear guide (Schneeberger size 35)
- Ball screws (NSK) - with nut cooling capability
- Hydraulic cylinder of the tailstock with admeasuring – setting the pressure on the control panel
- Possibility of using a ball screw with the tailstock – by reason of minimum clamping force
- Components spreading heat and noise placed in the rear of the machine
- Hydraulic unit with proportional valves – setting the pressure on the control panel
- Setting the position of the chuck jaws on the control panel
- Ball screw drives without a gear (motor, clutch, ball screw), ball screws used with lower pitch by reason of securing higher positioning precision

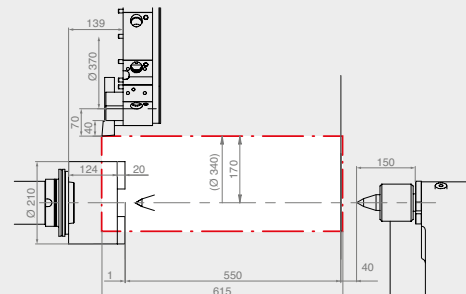


Working space

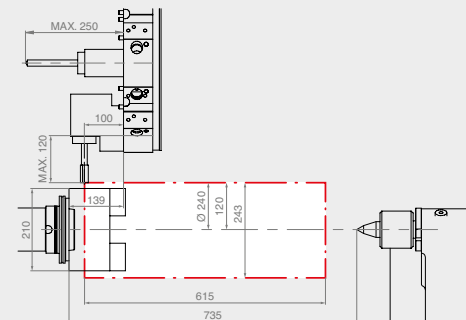
- 1 | Bed
- 2 | Headstock console
- 3 | Electrical spindle
- 4 | Tool head
- 5 | Rolling guide
- 6 | Tailstock



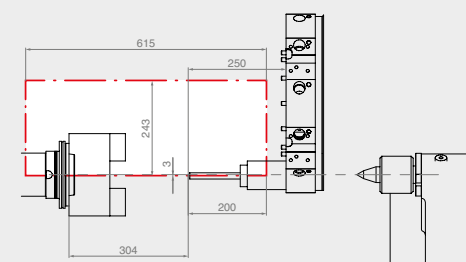
TURNING



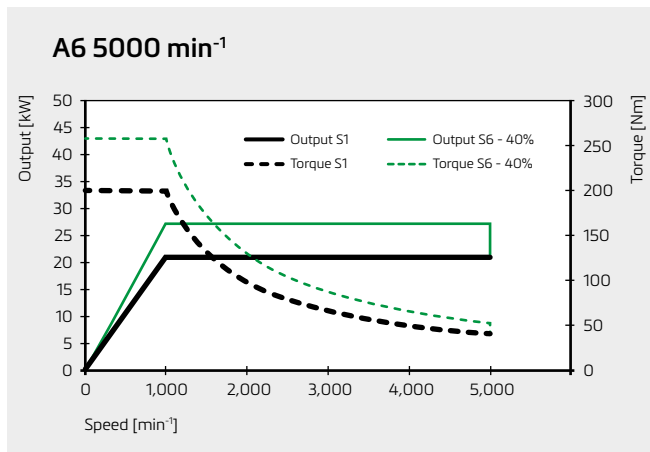
MILLING



DRILLING



Spindle



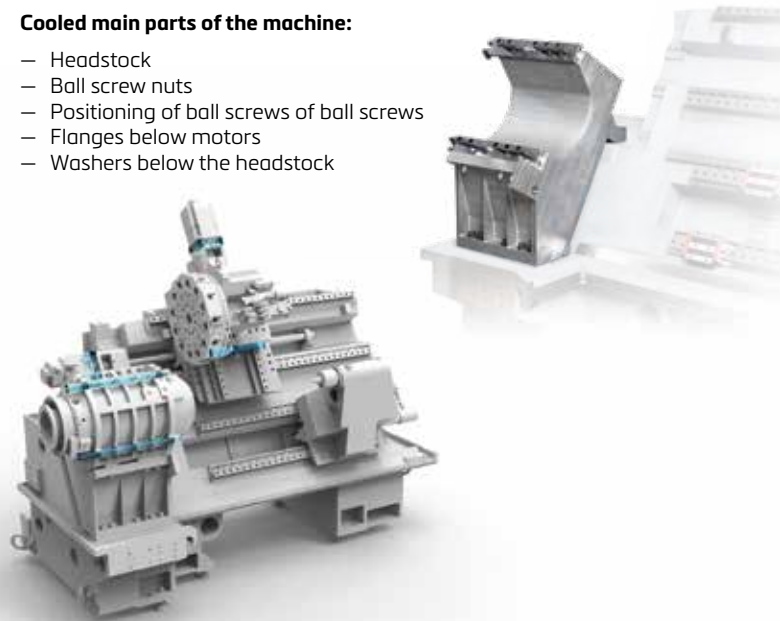
Precision

More precise tool head

Headstock console of mineral cast-iron – better vibration absorption and lower temperature deformation

Cooled main parts of the machine:

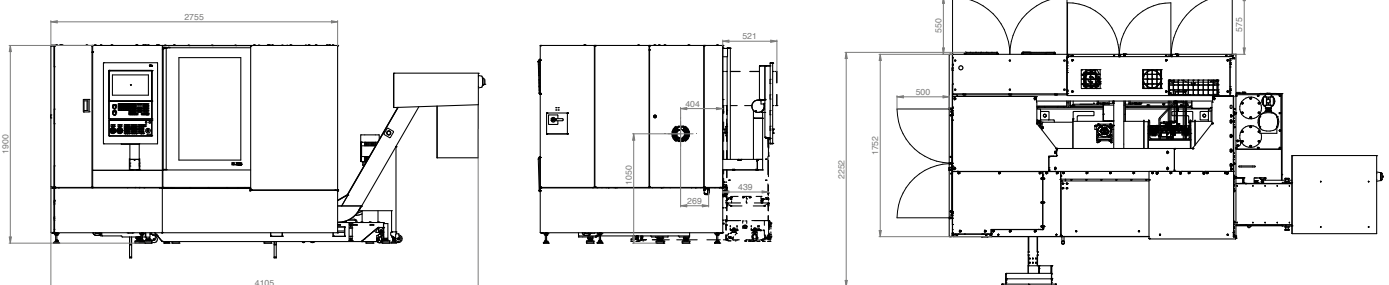
- Headstock
- Ball screw nuts
- Positioning of ball screws of ball screws
- Flanges below motors
- Washers below the headstock



Technical specifications		KL 285 MC	Special accessory
Working space	Swing diameter over bed	mm	670
	Swing diameter above the slide rest	mm	410
	Max. turning diameter	mm	340*
	Standard turning diameter *	mm	285
	Max. turning length	mm	550
	Max. passage through main spindle	mm	65
	Stroke in axis X	mm	243
Axes	Stroke in axis Z	mm	610
	High-speed travels X and Z	m/min	30
Main spindle	Spindle termination		A6
	Max. revolutions	min ⁻¹	5,000
	Torque moment S1 / S6 - 40%	Nm	200 / 257
	Output S1/S6-40%	kW	21 / 27
Tool head	Number of positions		12
	Hole diameter VDI	mm	40
	Max. speed of the tool spindle	min ⁻¹	4500
	Max. torque S1/S3-40%	Nm	16 / 21
	Output S1/S3-40%	kW	3.04 / 3.3
Tailstock	Bore cone - MORSE		Mo 5
Dimensions and machine weight	Length × width × height	[mm]	2,755 × 1,752 × 1,900
	Weight	[kg]	5900
			Direct measurement in X1 axis
			Manual airblast
			Chucks A6 - KNCS-N
			Tool measuring probe
			Tool measuring probe - motorised
			Tailstock with rotary bushing (tip Mo4)
			Fixed centre Mo4
			Automatic electric sliding of the working space cover
			KL285 Super Precision
			Chip conveyor – outlet in the rear of the machine
			Tool head BMT 55
			Tool head Direct drive (12,000 rpm) - VDI 30
			Tailstock ball screw
			Visiport
			Shovel
			Unit with frequency converter
			Rotary tip of the tailstock Mo5

* Standard cutter holder, external cutter ejected by 40 mm.

Machine dimensions





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