



KOVOSVIT MAS
machine your future

TECHNICAL OFFER

CENTER LATHE

MASTURN 550i



CENTER LATHE MASTURN 550i CNC

is designed for precise turning operation, namely in piece- and small batch production. The main machining operation is turning of intricate superficial, face and inside surfaces, cutting of cylindrical and tapered male and female threads. Enhanced machine accuracy corresponds to standard ISO 13041-1

MAIN TECHNICAL DATA

Working range	MT550-800		
Geometric and working accuracy	ISO 13041-1		
Swing over bed	550		mm
Swing over cross carriage	350		mm
Distance between centers	900		mm
Max. weight of workpiece	600		kg
Main spindle			
Spindle nose (DIN 55027)	B8		
Spindle bore	82		mm
Spindle taper – metric	90		
Main drive			
Power output S1 / S6-40%	17 / 25		kW
Automatic two-stages gearbox			
Spindle speed range	0 - 3000		min ⁻¹
Spindle speed range 1. stage	0 – 750		min ⁻¹
Spindle speed range 2. stage	20 – 3000		min ⁻¹
Max. torque 1.stage (S1 / S6-40%)	1300		Nm
Max. torque 2.stage (S1 / S6-40%)	295		Nm
X-axis			
Max. travel	285		mm
Rapid traverse	10 000		mm.min ⁻¹
Ball screw – diameter / pitch	25 / 5		mm
Max. feeding force	5 000		N
Repeatability according ČSN ISO 230-2	0,01		mm
Z-axis			
Max. travel	890		mm
Rapid traverse	10 000		mm.min ⁻¹
Ball screw – diameter / pitch	40 / 5		mm
Max. feeding force	10 000		N
Repeatability according ČSN ISO 230-2	0,015		mm
Turret			
MULTIFIX C			



Max. tool cross section	32 x 32	KOVOSVIT MAS machine your future	mm
8 - pos. automatic turret Duplomatic			
Max. tool cross section	20 x 20		mm
Tailstock			
Sleeve diameter	90		mm
Sleeve stroke	160		mm
Sleeve taper Morse	5		
Machine dimensions			
Length x width	2 538 x 1 920		mm
Height	1 755		
Weight of the machine	3 200		kg

MACHINE WORKING AMBIENT

The machine conforms to technical requirements of valid norms, international agreements and recommendation for lathes. The machine is designed to work in a normal workshop ambient, without influence of aggressive fumes and dust particles with max. air humidity of 70%. The machine accuracy is ensured at ambient temperature of + 20 °C ± 3 °C.

STANDARD ACCESSORIES

- Working space lighting
- Fixed center Mo 5
- Reduction sleeve for spindle Metric 90/Mo5
- Driving disc
- Working space safety guards
- Tool's cooling – 2 bar
- Machine handling tool kit
- Accompanying documentation in English only (manual from control system on CD)
- Rotary center röhM 600-20 MK5
- Chuck bison 315/3 B8 (MAX. 2800 RPM)
- Soft jaws 315/3 (SET)
- Mounting block for MULTIFIX C
- Quick holder MULTIFIX C
- Tool holder CD 32 150
- Tool holder CH 40 160
- Control system:
 - HEIDENHAIN MANUALplus 620