



KOVOSVIT MAS
machine your future



MCU 700

next generation

Multifunctional five-axis machining centre

www.kovosvit.cz

Main features of the machine

- **Rotary and tilting table for milling operations**
 - Increased rigidity and dynamics of the table
 - Increased max. speed of A-axis from 25 to 80 min⁻¹
 - Strengthened torque of drives of axes A and C by 50%
 - Increased max. workpiece weight from 850 kg to 1,300 kg
 - Table rotation within $\pm 120^\circ$ (in the rear position with a smaller workpiece)
- **Switchboard**
 - Integrated into the rear part of the machine, (decrease of the built width of the machine by 0.9 m)
 - Decreased power needs of the machine from 80 kW to 55 kW (lower demands for protection and the section of the main electric supply cable)
- **Quicker opening of the tool magazine screen, shorter time of tool replacement by 0.4 s.**
- **Newly designed cooling of the spindle, rotary and tilting table, and switchboard**
- **Control system Heidenhain TNC640 / Siemens Sinumerik 840D with a 19" touch screen**
- **New machine design, bigger windows into the working space**



Technical specifications

X-axis travel	mm	700
Y-axis travel	mm	820
Z-axis travel	mm	550
Table clamping area	mm	Ø630
Maximum table load	kg	1,300
Rotary C-axis	°	360
Tilting A-axis	°	±120
Division accuracy	°	0.001
Maximum table speed	A-axis:	80
	C-axis:	100
Setting precision of coordinates X, Y, Z	mm	0.01
Repeated travel precision	mm	0.005
Travel range in axes X, Y, Z	mm.min ⁻¹	60,000
Rapid traverse X, Y, Z axes	mm/min	60,000
Range of the continuously variable speed of the spindle	rpm	20 – 10,000
Spindle taper		ISO 50
Spindle drive output (40%ED)	kW	20 / 26
Maximum torque S1 / S6	Nm	262 / 340
Maximum number of tools in the magazine		24
Maximum tool diameter in the magazine	mm	130
Maximum tool length in the magazine	mm	265
Max. tool weight with automatic exchange	kg	10
Machine plan dimensions	mm	4,200 × 2,500
Machine height	mm	3,600
Machine weight	kg	18,450
Total machine input	kVA	55
Working pressure of the pneumatic equipment	MPa	0.6
T-grooves (number × width × spacing)	mm	10 × 14 × 36°

Standard accessories

Electrical equipment 3 × 400V/50Hz
CNC system Sinumerik 840 DSL
Digital alternating regulating drives of the spindle and axes X, Y, Z, A, C - SIEMENS
Direct measurement of the position of linear and circular axes
Hydraulic unit – table axis strengthening
Cooling unit for external cooling
Temperature compensation
Central clamping of tools
Automatic lubrication of movable parts
Manual wheel
Manual workspace rinsing
Accompanying documentation of subdeliveries
Switchboard air-conditioning
ETHERNET card
Tool kit for operation
Czech accompanying documentation on a CD
Circulating cooling of the spindle
Chip conveyor
Tool magazine 24 (48*) positions
Czech dialogue
* Optional



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