

TECHNICAL DATASHEET

CNC–Bed-Milling-Machine

	manufacturer	МТЕ
	type	RT 25/16
	control	HEIDENHAIN iTNC 530
_	built	2013



Travels						
X-axis (longitudinal)	2.500	mm				
Y-axis (vertical)	1.500	mm				
Z-axis (cross)	1.200	mm				
NC-Rotary-Tasble –integrated-						
Clamping surface	1.600 x 1.400	mm				
T-slot size	28 H 10	mm				
Workpiece weigth max.	15.000	Kg				
Bearing AD	1.095	mm				
Pitch Accuracy	2,5	sec				

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Feeds						
X-, Y- and Z-axis, stepless	5 - 15.000	mm/min.				
Max. feed power X-, Y- and Z-axis	24.000	Ν				
Rapid feed in X / Y / Z	25	m/min				
Working spindle with automatic milling head						
AC-main drive with gear box						
power 100% ED	30	kW From 198 min-1 on				
Gear steps	3					
Speed, stepless	0 - 4.000	1/min				
Max. torque	1.460	Nm Up to 198 min-1				
Tool taper		SK 50 – DIN 69871 Form AD				
Clamping bolt		DIN 69872 Form A				
Milling head tilting in both levels	2,5	° 144 pos. each level				
Auto. Tool clamping	15.000	N Clamping force				
Automatic Tool Changer ATC						
Tool places in magazine	40	Places				
Changing positions	Vertical + horizotal					
Tool diam. max.	250 / 125	mm Neighbour places free /occupied				
Tool length max.	380	mm				
Tool weight max.	20	kg				

CNC-control

HEIDENHAIN, iTNC 530

Combined with digital drive control, hard disk storage,15" TFT – color screen, 6 GB hard disc, external machine control panel, standard drilling and milling cycles, threading without compensation chuck, linear interpolation, circular interpolation, processing level swivel, helical curve etc. HEIDENHAIN tool management for managing tools and tool magazine, electronical handwheel HR 410, USB-interface, diagnostic system, Various milling-cycles

Chip conveyor

- Chip conveyor No. 1 installed between machine column and work piece table
- Chip conveyor No. 2 installed in front of the work piece table
- Cross conveyor on the left side of the machine for reducing the machine length
- Discharge high ca. 1.250 mm
- Integrated coolant tank with lifting pump







Guides, drive and measuring system

- All axis drives with digital servomotors SIEMENS
- Direct measuring system for X-, Y- and Z-axis HEIDENHAIN
- X-, Y- and Z-axis with INA high-precision linear guides for maximum precision and dynamics
- Precision ball screws in all axis with with pretension nut's

Coolant equipment

- Cooling through spindle including paper band filter
- Clean water tank ca. 500 l,
- Normal coolant supply 50 l/min 5 bar
- High pressure pump 20 bar
- Internal coolant through spindle centre taper DIN 69871 Form AD
- Clamping bolt DIN 69872 Form A

Measurement, weight						
Floor space required	ca. 8,3 x 6,7	m				
Machine height	ca. 3,92	m				
Machine weight	ca. 18.500	kg				
Electrical supply data						
Total connected load	45	kVA				
Operating voltage	400	V				
Operating frequency	50	Hz				
Machine weight Electrical supply data Total connected load Operating voltage	ca. 18.500 45 400	kg kVA V				

equipment

- Autom. Milling head 2,5° positioning
- Gear-box 3-fold
- Cooling unit for gear-box
- 3-D-Compensation for thermal extension of the milling unit
- Spindle drive 30 kW, SIEMENS
- X-, Y- and Z-axis with INA high-precision linear guides
- Direct measuring system for X-, Y- and Z-axis HEIDENHAIN
- Precision ball screws in all axis with pretension nut's
- NC-Rotary-Table 1.600 x 1.400 mm -enhanced-
- Radio touch probe manufacturer M&H, RWP 38.41 incl. autom. measuring cycles
- CNC-Control HEIDENHAIN iTNC 530 with digital drive control
- Electronical handwheel HR 410
- Autom. Tool changer 40-fold
- Coolant equipment with external coolant circuits and internal coolant through spindle
- 3 pc. Chip conveyor
- Ca. working hours: Main switch ON: 13.300h, Machine ON: 16.300 h, Operating: 5.500 h

