

# Microcut machining Center type M-Series

Best  
Quality



**MICROCUT** linear way vertical machining centers are powerful and reliable machines with high efficiency and high accuracy in machining performance with a robust and compact structure.

**MICROCUT M series** has four-low linear recirculating ball bearing guideways and a high-precision main spindle with thermal expansion stability. Depending on machining needs, various travel lengths with great capacity satisfy all demands.

The major structural component is made of Meehanite cast iron, which is heat treated to relieve stress, and to assure rigidity and accuracy. All casting is reinforced with heavy ribs to resist vibration. The base incorporates a durable ribbed box design for maximum structural loading.

All structural components and whole machine frame of MM series are analyzed by ANSYS mechanical system and Finite Element Method (FEM) to ensure structural optimization. The triangular wide-distance foundation provides solid support for operation.

## Standard equipment:

- Belt drive spindle 10000 rpm.
- Large fully ground work table with 4 T-slots
- C3 Class precision ground ballscrew.
- Linear guideway
- Fully ground way mating surfaces
- Automatic lubrication with low lubrication fault
- Coolant system
- Telescopic way covers
- Low voltage circuit system
- Chip conveyor
- 4 bar wash down device
- CE standard electrical control system
- Fully enclosure with removable slide door
- Rigid tapping function
- AICC (40 block) for FANUC 0iM
- EMC and safety module
- CE marking declaration conformity for EU
- Heat exchanger

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## Optional equipment:

- In-line spindle 12000 rpm
- Built-in spindle 14000 rpm
- Spindle oil cooler
- CTS system w.high pressure 20/70 bar pump
- Chip auger
- Air conditioner
- Coolant gun
- Oil skimmer
- 4th axis
- Tool setting probe
- Workpiece probe
- 3 axes with linear scales
- Arm-type ATC with 30T tool capacity



Heidenhain TNC  
620 control



Fanuc 0iM control



Fagor 8055i/8065 control



Siemens Sinumerik  
828D basic control

		M760	M800	M1050	M1200	M1400	M1600
Table size	mm	900 x 410	900 x 520	1200 x 600	1400 x 710	1500 x 600	1700 x 600
Table loading	kg	350	450	800	1000	1000	1200
Travel X-axis	mm	760	800	1050	1200	1400	1600
Travel Y-axis	mm	440	500	600	730	800	850
Travel Z-axis	mm	460	500	600	650	800	850
<b>Belt driven spindle (std)</b>							
Spindle taper		ISO40					
Spindle speed	rpm	10000					
X/Y/Z rapid feed	m/min.	30/30/30					
Guideway type	mm	Linear (ball)		Linear (roller)			
Position accuracy	mm	0,01/300					
Repeatability	mm	±0,01					
Automatic tool changer type		Arm					
No. of tools		24 (standard) / 30 (optional)					
Weight machine	kg	4350	6250	7000	8850	-	-
Floor space (w. chip conveyor)	mm	3400x2000	3838x2300	4320x2300	4250x2600	5200x2700	5200x2700