



CNC Horizontal Boring & Milling
Machining (FIXED COLUMN)
UBM-RS series



CNC Horizontal Boring & Milling
Machining (MOVABLE COLUMN)
UBM-R series



CNC Double Column
Machining Center
UDM series



Conventional Horizontal Boring
& Milling Machine
UBM series



CNC Horizontal Machining Center
UHM series



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UMM SERIES

**CNC HORIZONTAL HEAVY DUTY
MILLING MACHINE**

UMM / UMM-R SERIES

CNC HORIZONTAL HEAVY DUTY MILLING MACHINE

- 3500rpm standard spindle with 130mm diameter produces torque output up to 1323.2Nm, making the machine ideal for heavy cutting.
- Movable column construction allows the table (X-axis) to support extra heavy load.
- All slideways are supported by the main walls of the machine base for increased rigidity.
- To meet the requirement for 3D high speed machining for molds and dies, 4000rpm belt type spindle (Max. torque 992.4Nm) and 6000rpm belt type spindle (Max. torque 661.6Nm) are available upon request.



Table on UMM-xxxxR series



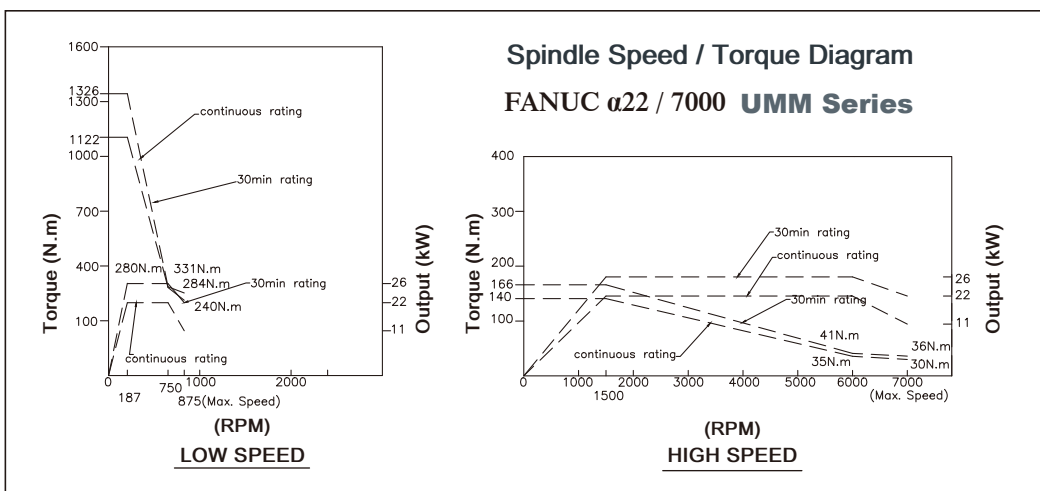
Standard Spindle Head
(Gear-drive. Max. 3500rpm)



Optional Spindle Head
(Belt type. 4000 / 6000rpm)



Tool Magazine
24, 32, 40, 60 tools - Optional



MACHINE SPECIFICATIONS

[]: As Optional

MODLE		UNIT	UMM-2216	UMM-2616	UMM-3216	UMM-4216	UMM-2018R	UMM-2518R	UMM-3218R	UMM-4218R
TABLE	Table Size	mm	2000x1400	2400x1400	3000x1400	4000x1400	1600 x 1400 x 0.001°			
	T-slots Size	mm	22				24			
	Maximum Load	kg	15000	18000	20000	25000	8000			
TRAVEL	X-Axis	mm	2200	2600	3200	4200	2000	2500	3200	4200
	Y-Axis	mm	1600 (2000)				1800			
	Z-Axis	mm	1200 (1700)				1200 (1700)			
SPINDLE	Speed	rpm	3500 (4000, 6000 Belt Type)				3500 (4000, 6000 Belt Type)			
	Taper		7/24 Taper ISO.50, BT-50				7/24 Taper ISO.50, BT-50			
DISTANCES	Spindle Center to Table Surface	mm	0~1600 (2000)				0~1800			
	Spindle Nose to Table Center	mm	350~1550 (2050)				360~1560 (2060)			
	Height From Ground to Table Surface	mm	1180				1250			
FEED RATE	Rapid Feed Rate X/Y/Z	m/min	10				10			
	Minimum Setting	mm/min	0.001				0.001			
	Cutting Feed Rate	mm/min	1~5000				1~5000			
MOTOR	Spindle Servo Motor-cont. / 30min	kW	22 / 26				22 / 26			
	Axis X/Y/Z	kW	7 / 4 / 4				7 / 4 / 4 / 7			
	Lubricator Motor	kW	0.15				0.15			
	Hydraulic Pump	kW	2.25				2.25			
	Coolant Pump	kW	1.17				1.17			
	Chip Conveyor	kW	0.2				0.2			
	Oil Cooler Pump	kW	0.75				0.75			
	No. of Tools	pieces	[24, 32, 40, 60]				[24, 32, 40, 60]			
	Tool Selection		Absolute				Absolute			
ATC	Tool Change Time [approx.] (T to T)	Sec.	15				15			
	Max. Tool-Diameter / Length	mm	Ø125/Ø250 (Without Adjacent Tool) / Length 400				Ø125/Ø250 (Without Adjacent Tool) / Length 400			
	Max. Tool Weight	kg	25				25			
COOLANT & LUBRICATION	Coolant Tank Volume	L	400				400			
	Hydraulic Tank Volume	L	80				80			
	Lubrication Tank Volume	L	8				8			
MISCELLANEOUS	Power Required	kVA	55				55			
	Pressurized Air	kg/cm²	6				6			

■ Specifications are subject to change without prior notice.

STANDARD ACCESSORIES :

1. Spindle oil cooler
2. Automatic power off
3. Hydraulic system
4. Coolant system
5. Lubricator system
6. Alarm lamp
7. Work lamp
8. M.P.G.
9. RS232 interface
10. Heat exchanger
11. Chip conveyor and cart
12. Leveling bolts & pads
13. Controller manuals and circuit diagram
14. Operation manuals
15. Machine inspection lists
16. Toolbox with spanners & wrenches
17. FANUC 0iMD
18. Splash guards (around the operator and work table)

OPTIONAL ACCESSORIES :

1. Y-axis travel: 2000 mm (UMM-2216, 2616, 3216)
2. Z-axis travel: 1700 mm
3. Linear scale on X, Y, Z axes
4. ATC: 24, 32, 40, 60 Tools
5. Spindle speed: 4000 or 6000 rpm
6. Air conditioner at the electrical cabinet
7. Coolant through spindle
8. Large splash guards (around the machine)
9. Rotary table: 1800x1600mm/0.001° load: 10 tons (UMM-xxxxR series)