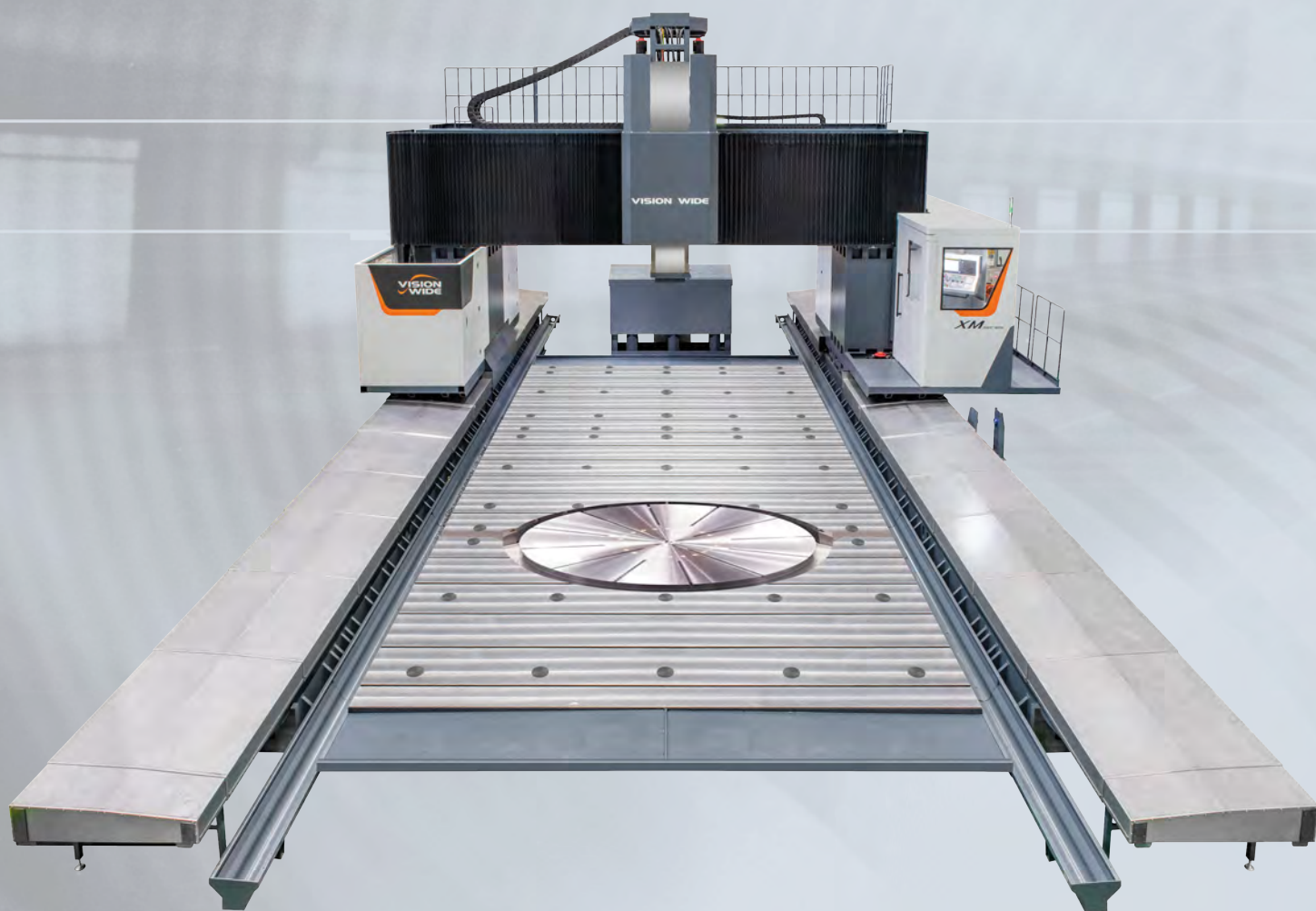


XM/XML

SERIES

| Extremely Mighty Machining Center |



Traveling Column Huge-Scale & Multi-Angle Machining Center

XM series is oriented on huge-scale automatic machining.

- With the firm structure , the workpiece can reach to 2,600mm height the maximum and 600,000mm length the maximum.
- XM series possesses both capabilities of heavy workpiece loading and high spindle torque output.
- Auto multi-angle head attachments and auto head attachments tool changing achieve auto application on huge workpiece machining.

Multi-Angle
Machining



XM Specification

Model		Unit	XM-25	XM-30	XM-35
TRAVEL					
X axis		mm	8,200(+1m)~60,200	8,200(+1m)~60,200	8,200(+1m)~60,200
Y axis		mm	3,200	3,700	4,200
Z axis		mm	1,000/1,200/1,400	1,000/1,200/1,400	1,000/1,200/1,400
Distance from spindle nose to table	Ram size	mm	470x460	470x460	470x460
	Z axis=1,000	mm	750~1,750	750~1,750	750~1,750
	Z axis=1,200	mm	750~1,950	750~1,950	750~1,950
	Z axis=1,400	mm	750~2,150	750~2,150	750~2,150
Max. allowable workpiece width		mm	3,000	3,500	4,000
TABLE					
Dimension		m	2.5 x 8~60 m	3 x 8~60m	3.5 x 8~60m
T-slot (slot x pitch)		mm	28x500	28x500	28x500
Max table load		kg/m ²	5,000	5,000	5,000
SPINDLE					
Spindle motor (cont./30 min. rated)		KW	22/26	22/26	22/26
Spindle speed	2-step gear	rpm	4,000/6,000	4,000/6,000	4,000/6,000
	Built-in Motor	rpm	8,000/12,000	8,000/12,000	8,000/12,000
Spiral taper		-	ISO NO.50	ISO NO.50	ISO NO.50
FEED					
Cutting federate		mm/min	1-10,000	1-10,000	1-10,000
Rapid traverse(X/Y/Z)		m/min	20/20/12	20/20/12	20/20/12
X/Y/Z axis motor power		KW	X:4.5 ; Y:7 ; Z:5.5	X:4.5 ; Y:7 ; Z:5.5	X:4.5 ; Y:7 ; Z:5.5
ATC					
ATC capacity		pcs	32/40/60	32/40/60	32/40/60
Max. tool weight		kg	18	18	18
Tool size (full tools)		mm	Ø125	Ø125	Ø125
Max. tool size (next packet empty)		mm	Ø215	Ø215	Ø215
Tool shank		-	ISO NO.50	ISO NO.50	ISO NO.50
Pull stud		-	P50T-1	P50T-1	P50T-1
OTHER					
Power requirement		kVA	60	60	60
Air pressure flow requirement		kg/cm ²	6	6	6
Mechine net weight		kgs	67,200	71,600	76,000
Floor. Space (L x W x H)		m	16.5x8.96x5.94	16.5x9.46x5.94	16.5x9.96x5.94

* This floor space is X axis travel 8,200mm

* For details, please refer to Machine Specification.

* The manufacture reserves the right to modify the design, specifications mechanism, etc.

XML Specification

Model		Unit	XML-30	XML-35	XML-40	XML-50
TRAVEL						
X axis		mm	8,200(+1m)~60,200	8,200(+1m)~60,200	8,200(+1m)~60,200	8,200(+1m)~60,200
Y axis		mm	3,700	4,200	4,700	5,700
Z axis		mm	1,500/2,000/2,200	1,500/2,000/2,200	1,500/2,000/2,200	1,500/2,000/2,200
Distance from spindle nose to table	Ram size	mm	580x580	580x580	580x580	580x580
	Z axis=1,500	mm	750~2,250	750~2,250	750~2,250	750~2,250
	Z axis=2,000	mm	750~2,750	750~2,750	750~2,750	750~2,750
	Z axis=2,200	mm	750~2,950	750~2,950	750~2,950	750~2,950
Max. allowable workpiece width		mm	3,700	4,200	4,700	5,700
TABLE						
Dimension		m	3 x 8~60m	3.5 x 8~60m	4 x 8~60m	5x 8~60m
T-slot (slot x pitch)		mm	28x500	28x500	28x500	28x500
Max table load		kg/m ²	5,000	5,000	5,000	5,000
SPINDLE						
Spindle motor (cont./30 min. rated)		KW	22/26	22/26	22/26	22/26
Spindle speed	2-step gear	rpm	4,000/6,000	4,000/6,000	4,000/6,000	4,000/6,000
	Built-in Motor	rpm	8,000/12,000	8,000/12,000	8,000/12,000	8,000/12,000
Spiral taper		-	ISO NO.50	ISO NO.50	ISO NO.50	ISO NO.50
FEED						
Cutting federate		mm/min	1-10,000	1-10,000	1-10,000	1-10,000
Rapid traverse(X/Y/Z)		m/min	20/20/12	20/20/12	20/20/12	20/20/12
X/Y/Z axis motor power		KW	X:4.5 ; Y:7 ; Z:5.5	X:4.5 ; Y:7 ; Z:5.5	X:4.5 ; Y:7 ; Z:5.5	X:4.5 ; Y:7 ; Z:5.5
ATC						
ATC capacity		pcs	32/40/60	40/60	40/60	40/60
Max. tool weight		kg	18	18	18	18
Tool size (full tools)		mm	Ø125	Ø125	Ø125	Ø125
Max. tool size (next packet empty)		mm	Ø215	Ø215	Ø215	Ø215
Tool shank		-	ISO NO.50	ISO NO.50	ISO NO.50	ISO NO.50
Pull stud		-	P50T-1	P50T-1	P50T-1	P50T-1
OTHER						
Power requirement		kVA	60	60	60	60
Air pressure flow requirement		kg/cm ²	6	6	6	6
Mechine net weight		kgs	82,700	88,200	90,300	101,100
Floor. Space (L x W x H)		m	17x10x6.74	17x10.5x6.74	17x11x6.74	17x12x6.74

* This floor space is X axis travel 8,200mm

* For details, please refer to Machine Specification.

* The manufacture reserves the right to modify the design, specifications mechanism, etc.

Standard Accessory & Function

1. Fanuc 0iMF CNC
2. 4,000rpm 2-step gear type spindle
3. Spindle and Gear box cooling system
4. Z axis travel:
XM: 1,000mm
XML: 1,500mm
5. X axis dual linear scale / Z axis linear scale
6. Z-axis Enclosed box ram type (XML series only)
7. Y-axis ball screw support device
8. ATC 32T
9. Centralized auto lubrication system
10. Independent lubrication oil collector
11. Air blast through spindle
12. Wash gun and pneumatic interface
13. Cutting fluid cooling system
14. Four piece sheet metal guard
15. Wireless manual pulse generator
16. Operation Room
17. Screw type chip conveyor on table sides
18. Caterpillar type chip conveyor
19. Air conditioning for electrical cabinet
20. Working lamp
21. Operation cycle finish and alarm light
22. Footswitch for tool clamping
23. RJ45 interface
24. XYZaxis travel hard limits protection
25. Auto power off function
26. Spindle cutting load software protection
27. Remote monitoring software-standard(CNC TalkBox)
28. Vision Wide FX graphical user interface (FANUC)
29. Foundation pads and bolts kits
30. Adjustment tool and tool kits
31. Technical manuals

Optional Accessory & Function

1. FANUC 31iB controller
2. HEIDENHAIN TNC640 controller
3. SIEMENS 840D controller
4. 6,000rpm 2-step gear type spindle
5. 8,000rpm / 12,000rpm Built-in spindle
6. Z axis travel:
XM: 1,200/1,400mm
XML: 2,000/2,200mm
7. Y axis linear scale feedback
8. Without Tool magazine
9. Vertical type tool magazine 40/ 60 tools
10. Vertical-horizontal type tool magazine 32/ 40/ 60 tools
11. Coolant through spindle system 20/ 70bar.
12. Oil skimmer
13. Oil mist cooling device
14. Spindle ring cutting coolant device
15. Z-axis retract function at power failure
16. Helical bladed screw conveyor on table sides
17. Chip cart
18. Sub working table
19. Auto tool length measurement
20. Auto workpiece coordinate measurement
21. Interface reserved for fourth axis
22. Transformer
23. AC attached head
24. Multi-heads magazine
25. Anti-collision and proecess simulation software
26. Remote monitoring software-professional