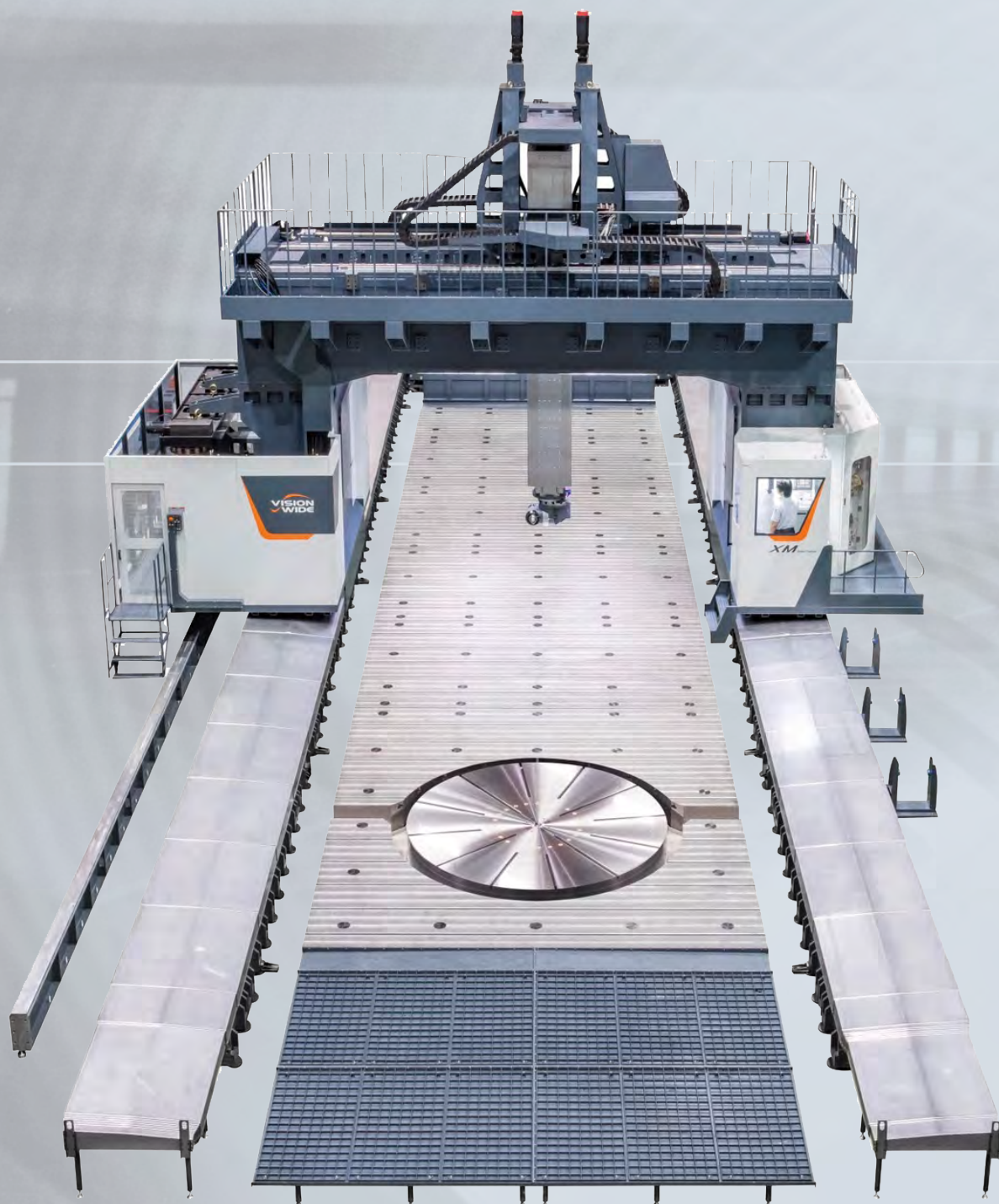


XMF / XMS

SERIES

Extremely Mighty Machining Center



Traveling Column Huge-Scale & Multi-Angle Machining Center

- Huge workpiece machining space.
- Excellent moving column positioning accuracy.
- High torque spindle with heavy-duty capability.
- Fully automatic tool changer.
- Fully automatic multi-face machining.
- Friendly operation interface.
- Milling and turning compound solution.
- Thermal friendly Box-in-Box cross beam.
- High geometric accuracy.

Multi-Angel
Machining



XMF Specification

MODEL		Unit	XMF-42	XMF-47	XMF-52	XMF-57
TRAVEL						
X axis		mm	8,200(+1m)~60,200			
Y axis		mm	4,200	4,700	5,200	5,700
Z axis		mm	2,500 / 3,000(OPT.)			
Distance from spindle nose to table	Ram size	mm	680x680			
	Z axis=2,500	mm	500~3,000			
	Z axis=3,000	mm	500~3,500			
Max. workpiece width		mm	4,600	5,100	5,600	6,100
TABLE						
Dimension (Width x Length)		m	4 x 8~60		5 x 8~60	
T-slot (Dimension x Pitch)		mm	28 x 500			
Max. table load		kg/m ²	5,000			
SPINDLE						
Spindle motor (continuous/30 minute rated)		kW	22 / 26			
Spindle speed	2-step gear	rpm	4,000 / 6,000(OPT.)			
	Built-in	rpm	8,000(OPT.) / 12,000(OPT.)			
Spindle taper		-	ISO NO.50			
FEEDRATE						
Cutting federate		mm/min	1-10,000			
Rapid traverse (X/Y/Z)		m/min	20 / 20 / 12			
X,Y,Z power capacity		kW	5.5 / 5.5 / 14			
ATC						
ATC capacity		pcs	32 / 40(OPT.) / 60(OPT.)			
Max. tool weight		kg	18			
Max. tool size(Full tools)		mm	Φ125			
Max. tool size(Next pockets empty)		mm	Φ215			
Tool shank		-	ISO NO.50			
Pull stud		-	P50T-1			
OTHER						
Electric power consumption		kVA	85			
Pneumatic input pressure		kg/cm ²	6			
Net weight*		kgs	125,400	129,100	139,500	143,200
Max. floor space (LxWxH)*		m	17 x 11.4 x 8.88	17 x 11.9 x 8.88	17 x 12.4 x 8.88	17 x 12.9 x 8.88

* The specification is X axis travel 8m

※ All specifications and designs are subject to change without notice.

XMS Specification

MODEL		Unit	XMS-37	XMS-42	XMS-52
TRAVEL					
X axis		mm	8,200(+1m)~60,200		
Y axis		mm	3,700	4,200	5,200
Z axis		mm	1,500(OPT.) / 1,800(OPT.) / 2,000 / 2,200(OPT.)		
Distance from spindle nose to table	Ram size	mm	580 x 580		
	Z axis=1,500	mm	1,000~2,500		
	Z axis=1,800	mm	700~2,500		
	Z axis=2,000	mm	500~2,500		
	Z axis=2,200	mm	500~2,700		
Max. workpiece width		mm	4,100	4,600	5,600
TABLE					
Dimension (Width x Length)		m	3.5 x 8 ~ 60	4 x 8 ~ 60	5 x 8 ~ 60
T-slot (Dimension x Pitch)		mm	28 x 500		
Max. table load		kg/m ²	5,000		
SPINDLE					
Spindle motor (continuous/30 minute rated)		kW	22 / 26		
Spindle speed	2-step gear	rpm	4,000 / 6,000 (OPT.)		
	Built-in	rpm	8,000 (OPT.) / 12,000 (OPT.)		
Spindle taper		-	ISO NO.50		
FEEDRATE					
Cutting federate		mm/min	1-10,000		
Rapid traverse (X/Y/Z)		m/min	20 / 20 / 12		
X,Y,Z power capacity		kW	4.5 / 5.5 / 5.5		
ATC					
ATC capacity		pcs	32 / 40 (OPT.) / 60 (OPT.)		
Max. tool weight		kg	18		
Max. tool size(Full tools)		mm	Φ125		
Max. tool size(Next pockets empty)		mm	Φ215		
Tool shank		-	ISO NO.50		
Pull stud		-	P50T-1		
OTHER					
Electric power consumption		kVA	60		
Pneumatic input pressure		kg/cm ²	6		
Net weight*		kgs	70,000	75,000	84,000
Max. floor space (LxWxH)*		m	16.7 x 10.15 x 7.96	16.7 x 10.65 x 7.96	16.7 x 11.65 x 7.96

* The specification is X axis travel 8m

※ All specifications and designs are subject to change without notice.

Standard Accessory & Function

- 1 Fanuc 0iMF PLUS controller
- 2 4,000rpm 2-step gear type spindle
- 3 Spindle oil cooling system
- 4 Z travel
XMF : 2,500mm
XMS : 2,000mm
- 5 X Dual linear scale /Z axis linear scale
- 6 Y axis Ballscrew supporting device
- 7 Vertical type tool magazine 32 tools
- 8 Centralized auto lubrication system
- 9 Independent lubrication oil collector
- 10 Air blast through spindle
- 11 Wash gun & pneumatic interface
- 12 Cutting coolant system
- 13 Four piece sheet metal guard
- 14 Wireless manual pulse generator
- 15 Confrontable operation room
- 16 Screw type chip conveyor on table sides
- 17 Caterpillar type chip conveyor / Water tank
- 18 Air conditioning for electrical cabinet
- 19 Working lamp
- 20 Operation cycle finish and alarm light
- 21 Footswitch for tool clamping
- 22 RJ45 interface
- 23 XYZ-axis travel hard limits protection
- 24 Auto power off
- 25 Remote monitoring software-standard
- 26 Vision Wide FX graphical user interface
- 27 Foundation pads and bolts kits
- 28 Adjustment tool and tool kits
- 29 Technical manuals
(operation, maintenance manual and circuit diagram)

Optional Accessory & Function

- 1 Fanuc 31iB controller
- 2 HEIDENHAIN TNC640 controller
- 3 SIEMENS ONE controller
- 4 6,000 rpm box way type 2-step gear spindle
- 5 8,000rpm Built-in spindle
- 6 12,000rpm Built-in spindle
- 7 Z axis travel
XMF : 3,000mm
XMS : 1,500/ 1,800/ 2,200mm
- 8 Y axis linear scale
- 9 Z axis hydrostatic guideway
- 10 Without Tool magazine
- 11 Vertical type tool magazine 40T / 60T
- 12 Vertical-horizontal type tool magazine 32T/40T/60T
- 13 Coolant through spindle system 20/70 bar
- 14 Oil skimmer
- 15 Oil mist cooling device
- 16 Spindle ring cutting coolant device
(for no head attachment)
- 17 Z-axis retract function at power failure
- 18 Helical bladed screw conveyor on table sides
- 19 Chip cart
- 20 Sub working table
- 21 Auto tool length measurement
- 22 Auto workpiece coordinate measurement
- 23 Interface reserved for fourth axis
- 24 Transformer
- 25 AC attachment head
- 26 Multi-heads magazine
- 27 Anti-collision and proecess simulation software
- 28 Remote monitoring software-standard