

Extremely Mighty Machining Center



Huge Workpiece
Machining Space.
Excellent Moving Column
Positioning Accuracy.
Fully Automatic Multi-face
Machining.

- High torque spindle with heavy cutting capability.
- Fully automatic tool changer.
- Friendly operation.
- Milling and turning compound solution.
- Straightness 0.02mm/ 20m structural machining equipment.





## Specification

Model		Unit	XM-32	XM-37	XM-42			
Travel								
X axis		mm	8,200~60,200 (Per meter added is one specification.)					
Y axis		mm	3,200 3,700 4,200					
Z axis		mm	1,000 / 1,200(Opt.)/ 1,400(Opt.)					
Distance from spindle nose to table	Ram size	mm	470 x 460					
	Z axis=1,000(STD)	mm	750~1,750					
	Z axis=1,200	mm	750~1,950					
	Z axis=1,400	mm	750~2,150					
	ween columns etween X axis cover)	mm	3,120 ( 2,700 )	3,620 ( 3,200 )	4,120 ( 3,700 )			
Table								
Table size ( `	Y direction x X direction)	m	2.5 x ( 8~60 )	3 x (8~60)	3.5 x ( 8~60 )			
T-slot (width	x pitch)	mm	28 x 500					
Max. table load		kg/m <sup>2</sup>	5,000					
Spindle								
Spindle	2-step gear	rpm	4,000 / 6,000(Opt.)					
speed	Built-in driven	rpm	8,000(Opt.) / 12,000(Opt.)					
Spindle power (cont. / 30 min.)		kW	22 / 26					
Spind <b>l</b> e tape	r	-	BBT-50					
Feed								
Cutting feed rate		mm/min	1~10,000					
Rapid traverse (X/Y/Z)		m/min	20 / 20 / 12					
3 axes motor power (FANUC) (X/Y/Z)		kW	4.5 x 4 / 4.5 / 4.5 x 2					
ATC								
Too <b>l</b> magazir	ne capacity	pcs	32 / 40(Opt.) / 60(Opt.)					
Max. tool diame	eter (full / next pockets empty)	mm	Ø125 / Ø250					
Max. tool len	gth	mm	450					
Max, tool weight		kg	20					
Tool shank		-	BBT-50					
Pull stud		-	P50T-1					
General								
Power requirement		kVA	60					
Pneumatic requirement		kg/cm <sup>2</sup>	6					
Machine net weight		kg	68,000	73,000	78,000			
Floor space(L x W x H) <del>*</del>		m	17 x 8.8 x 5.1	17 x 9.3 x 5.1	17 x 9.8 x 5.1			

**<sup>★</sup>** Floor space: X axis travel is set as 8,200 mm and Z axis travel is set as 1,500 mm.

<sup>\*</sup> For details, please refer to Machine Specification.

 $<sup>\</sup>mbox{\ensuremath{\mbox{\#}}}$  The manufacture reserves the right to modify the design, specifications mechanism, etc.



## Specification

Model		Unit	XML-37	XML-42	XML-47	XML-57		
Travel								
X axis		mm	8,200~60,200 (Per meter added is one specification.)					
Y axis		mm	3,700	4,200	4,700	5,700		
Z axis		mm	1,500 / 2,000(Opt.) / 2,200(Opt.)					
Distance from spindle nose to table	Ram size	mm	580 x 580					
	Z axis=1,500(STD)	mm	850~2,350					
	Z axis=2,200	mm	850~2,850					
	Z axis=2,200	mm	850~3,050					
	ween columns etween X axis cover)	mm	4,050 ( 3,600 )	4,550 ( 4,100 )	5,050 ( 4,600 )	6,050 ( 5,600 )		
Table								
Table size ( \	Y direction x X direction)	m	3 x ( 8~60 )	3.5 x ( 8~60 )	4 x ( 8~60 )	5 x ( 8~60 )		
T-slot (width	x pitch)	mm	28 x 500					
Max. table lo	ad	kg/m <sup>2</sup>	5,000					
Spindle								
Spindle speed	2-step gear	rpm	4,000 / 6,000(Opt.)					
	Built-in driven	rpm	8,000(Opt.) / 12,000(Opt.)					
Spindle power (cont. / 30 min.)		kW	22 / 26					
Spindle taper		-	BBT-50					
Feed								
Cutting feed rate		mm/min	1~10,000					
Rapid traverse (X/Y/Z)		m/min	20 / 20 / 12					
3 axes motor power (FANUC) (X/Y/Z)		kW	4.5 × 4 / 5.5 / 14 × 2					
ATC								
Tool magazir	ne capacity	pcs	32 / 40(Opt.) / 60(Opt.)					
Max. tool diame	eter (full / next pockets empty)	mm	Ø125 / Ø 250					
Max. tool len	gth	mm	450					
Max. tool weight		kg	20					
Tool shank		-	BBT-50					
Pull stud		-	P50T-1					
General								
Power requirement		kVA	80					
Pneumatic requirement		kg/cm <sup>2</sup>	6					
Machine net weight		kg	95,000	100,000	105,000	110,000		
Floor space ( L x W x H ) *		m	17 x 10.2 x 6.9	17 x 10.7 x 6.9	17 x 11.2 x 6.9	17 x 12.2 x 6.9		

**<sup>★</sup>** Floor space: X axis travel is set as 8,200 mm and Z axis travel is set as 1,500 mm.

<sup>\*</sup> For details, please refer to Machine Specification.

 $f{st}$  The manufacture reserves the right to modify the design, specifications mechanism, etc.

# XVIXVIL series

### Standard Accessory & Function

- 1 FANUC 0iMF Plus Controller
- 2 4,000 rpm 2-step gear type spindle
- 3 Spindle cooling system
- 4 Z axis travel 1,000 mm

  (enclosed box ram) /XM series only
  Z axis travel 1,500 mm

  (enclosed box ram) /XML series only
- 5 X axis dual linear scale
- 6 Z axis linear scale
- 7 Y axis ball screw supporting device
- 8 Vertical type tool magazine 32 tools
- 9 Centralized auto lubrication system
- 10 Independent lubrication oil collector for 3 axes
- 11 Air blast through spindle
- 12 Wash gun & pneumatic interface
- 13 Cutting coolant system
- 14 Sheet metal guard (four-piece type)
- 15 Confrontable operation room
- 16 Wireless manual pulse generator
- 17 Screw type chip conveyor on table sides
- 18 Steel belt chip conveyor / coolant tank
- 19 Air conditioner for electrical cabinet
- 20 Working lamp
- 21 Operation cycle finish and alarm light
- 22 Footswitch for tool clamping
- 23 RJ45 interface
- 24 X/Y/Z axis travel hard limits protection
- 25 Auto power off
- 26 Spindle overloading protected by software
- 27 Remote monitoring software (standard)
- 28 Vision Wide FX graphical user interface (only for FANUC Controller)
- 29 Foundation pads and bolts kits
- 30 Adjustment tool and tool kits
- 31 Technical manuals (operation, maintenance manual and circuit diagram)





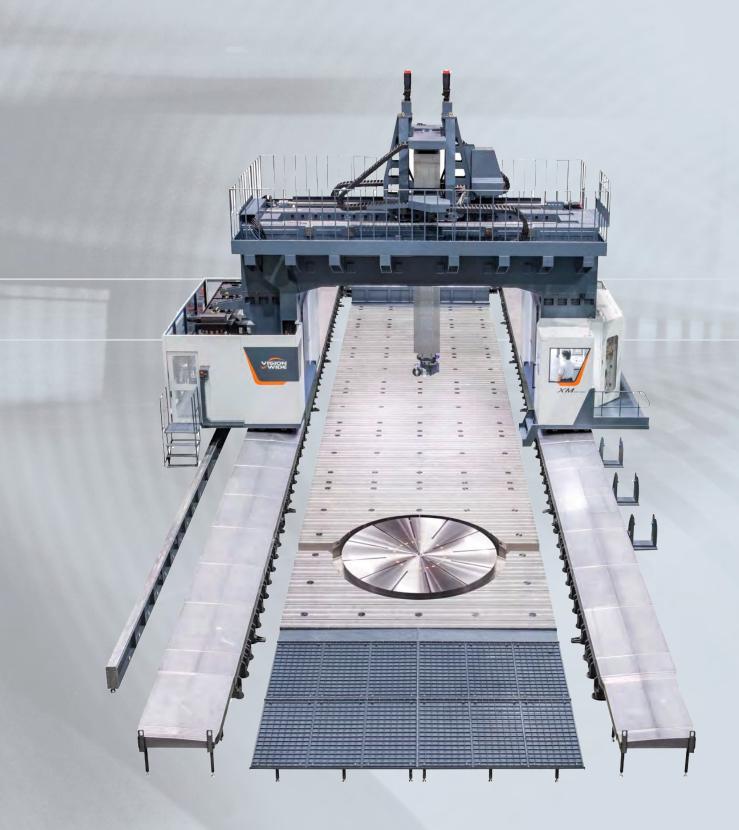
### **Optional Accessory & Function**

- 1 FANUC 31iB / HEIDENHAIN TNC 640 / SIEMENS ONE Controller
- 2 6,000 rpm 2-step gear spindle
- 3 8,000 rpm built-in spindle
- 4 12,000 rpm built-in spindle
- 5 Z axis travel 1,200 / 1,400 mm (enclosed box ram) /XM series only
- 6 Z axis travel 2,000 / 2,200 mm (enclosed box ram) /XML series only
- 7 Y axis linear scale
- 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 / 70 bar
- 12 Oil skimmer
- 13 Oil mist cooling device (MQL)
- 14 Spindle ring cutting coolant device (vertical spindle / for no head attachment)
- 15 Tool axis retract function at power failure
- 16 Helical blade screw conveyor on table sides
- 17 Chip cart
- 18 Sub working table
- 19 Auto workpiece measurement
- 20 Auto tool measurement
- 21 Movable operation panel
- 22 Interface reserved for fourth axis (hydraulic device and electrical interface)
- 23 Transformer
- 24 AC attachment head
- 25 Multi-heads magazine
- 26 Anti-collision and proecess simulation software
- 27 Remote monitoring software (professional)





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.





## XVIF Specification

MODEL		Unit	XMF-42	XMF-47	XMF-52	XMF-57		
TRAVEL								
X azis		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						<u>'</u>		
Dimension (Wid	th x Length)	m	4 x 8~60 5 x 8~60			8~60		
T-slot (Dimensio	on x Pitch)	mm	28 x 500					
Max. table load		kg/m <sup>2</sup>	5,000					
SPINDLE								
Spindle motor (c	continuous/30 minute rated)	kW	22 / 26					
Caiadle aneed	2-step gear	rpm	4,000 / 6,000(OPT.)					
Spindle speed	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	t	kg	18					
Max. tool size(Full tools)		mm	Ф125					
Max. tool size(Next pockets empty)		mm	Ф215					
Tool shank		-	ISO NO.50					
Pull stud -		-	P50T-1					
OTHER								
Electric power consumption		kVA	85					
Pneumatic input pressure kg/cn		kg/cm <sup>2</sup>	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 8.8		

<sup>\*</sup> The specification is X axis travel 8m

<sup>\*</sup> All specifications and designs are subject to change without notice.



## X/1/5 Specification

MODEL		Unit	XMS-37	XMS-42	XMS-52			
TRAVEL								
X azis		mm		8,200(+1m)~60,200				
Y axis		mm	3,700	4,200	5,200			
Zaxis		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 (Wic	dth x Length)	m	3.5 x 8 ~ 60	4 x 8 ~ 60	5 x 8 ~ 60			
T-slot (Dimensi	on x Pitch)	mm	28 x 500					
Max. table load		kg/m <sup>2</sup>	5,000					
SPINDLE								
Spindle motor (	continuous/30 minute rated)	kW	22 / 26					
Spindle speed	2-step gear	rpm	4,000 / 6,000 (OPT.)					
Spinale speed	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	Ф215					
Tool shank		-	ISO NO.50					
Pull stud		-	P50T-1					
OTHER								
Electric power o	consumption	kVA		60				
Pneumatic input pressure		kg/cm <sup>2</sup>	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			

 $<sup>^{\</sup>ast}$  The specification is X axis travel 8m  $\,$ 

<sup>\*</sup> 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

Vision Wide retains the right to modify product specification and related information.
If you have any question, please contact us.