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XM
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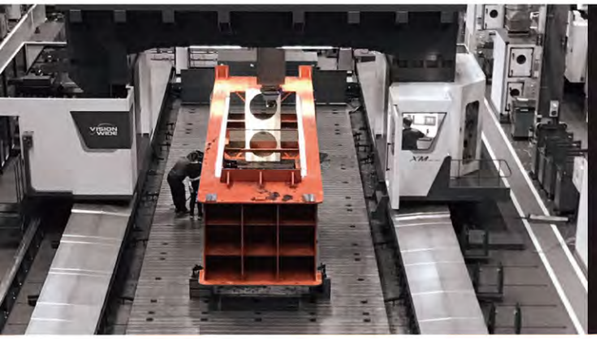
SERIES



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XM/XML-E-202301

XM/XML
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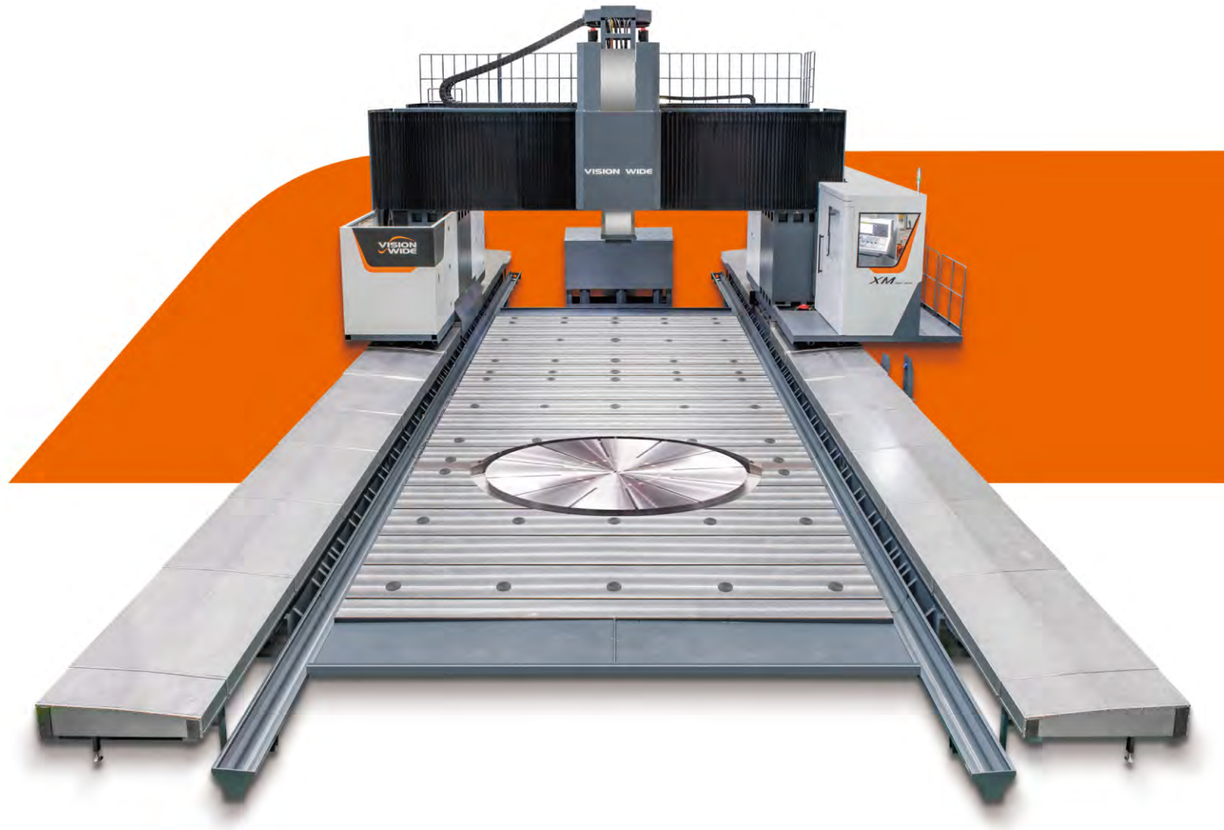
EXTREMELY MIGHTY MACHINING CENTER



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EXTREMELY MIGHTY MACHINING CENTER

Everyday / Everything we know

Vision Wide's machines are processing their parts all over the world

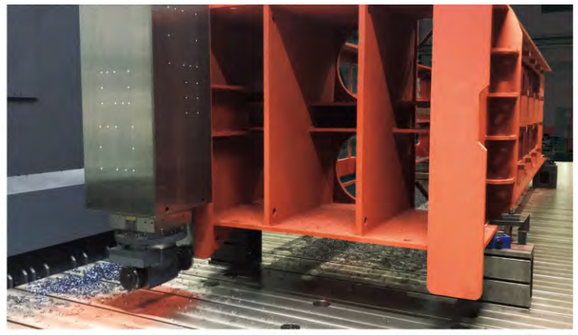
XM/XML series

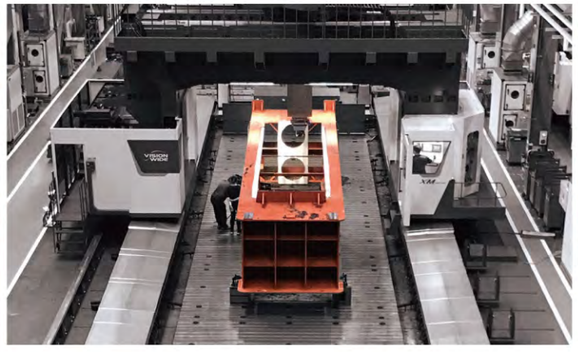
High Speed.
High Precision.
High Efficiency.

XM series
Moving Column Machining Center

- Huge workpiece machining space.
- Excellent moving column positioning accuracy.
- High torque spindle with heavy cutting capability.
- Fully automatic tool changer.
- Fully automatic multi-face machining.
- Friendly operation.
- Milling and turning compound solution

  Straightness 0.02mm/20m structural machining equipment.





Large-Scale Equipment Precision Manufacturing Basis

- Environment temperature control in 1˚C
- Humidity below 75%
- 75 ton/m² endurance of fundation

XM/XML series

High Speed.
High Precision.
High Efficiency.

XM series

- X axis travel: 8,200 (+1m)~60,200mm
- Y axis travel: 3,200/ 3,700/ 4,200mm
- Z axis travel: 1,000/ 1,200/ 1,400mm
- Max. Workpiece Width: 4,100mm

XML series

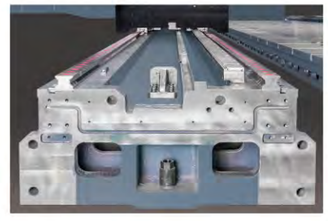
- X axis travel: 8,200 (+1m)~60,200mm
- Y axis travel: 3,700/ 4,200/ 5,700mm
- Z axis travel: 1,500/ 1,800/ 2,000/ 2,200mm
- Max. Workpiece Width: 5,800mm

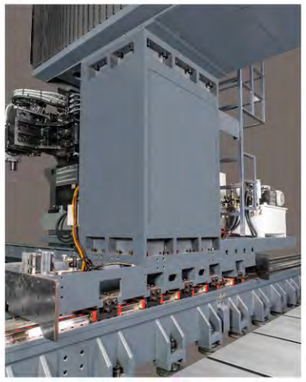
High-Speed X-axis structure

- Dual rack-pinion transmission and dual servo backlash elimination mechanism.
- Large span support length.
- 4 roller type linear rails with 20 sliding blocks support.
- Dual linear encoder positioning feedback system.
- Ultra-wide and thick base structure.

High-precision realization

- Rapid feed 20 m/min
- Cutting feed 10 m/min
- Positioning accuracy P0.01 mm/2m
- Repeated accuracy Ps0.005 mm/2m
- Straightness 0.01 mm/5 m





High Straightness & Anti-torsion Structure Y-axis Design

- Y-axis large beam structure 1,250 x 1,650mm
- Best span support for 3 linear rails.
- It is equipped with high rigidity support of 7 sliding blocks.
- C3 grade precision transmission ballscrew.
- Y axis precision supporter mechanism prevent the sag of ballscrew, enhances higher positioning accuracy, and ensures ballscrew lifetime.

High-precision realization

- Rapid feed 20 m/min
- Cutting feed 10 m/min
- Positioning accuracy P0.01 mm/2m
- Repeated accuracy Ps0.005 mm/2m
- Straightness 0.01 mm/2m

XM/XML series

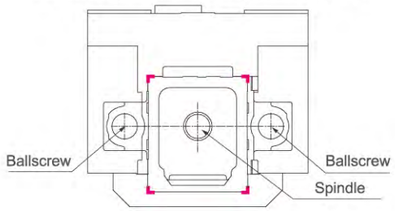
High Speed.
High Precision.
High Efficiency.

Symmetrical Z-axis Center of Gravity Drive

XM series

- The square ram was restrained by enclose structure, available:
  XM series: Ram size 460 x 470mm
  Z axis travel: 1,000/ 1,200/ 1,400mm
- The Z-axis adopts dual-servo motor with twin screw drive to increase the feeding rigidity and ensure accuracy.
- The gearbox is isolated from the machine ram, and the thermal energy is also isolated from ran. Limited the thermal deformation of the sag of the ballscrew, enhances higher positioning accuracy, and ensures the ballscrew lifetime.

4 corners of the slide rail are supported on 8 sides

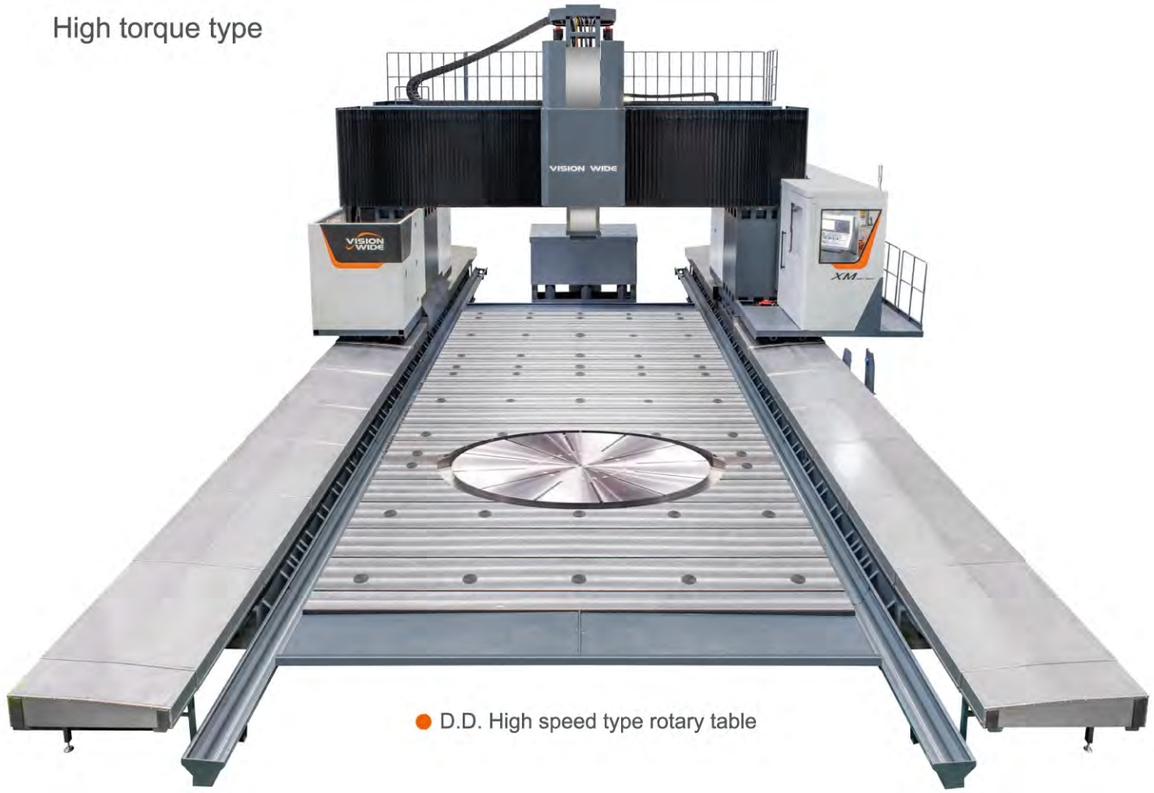


XML series

- The square ram was restrained by enclose structure, available:
  XML series: Ram size 580 x 580mm
  Z axis travel: 1,500/ 1,800/ 2,000/ 2,200mm
- The Z-axis adopts dual servo with twin screw drive to increase the feeding rigidity and ensure accuracy.
- The gearbox is isolated from the machine ram, and the thermal energy is also isolated from ran. Limited the thermal deformation of the sag of the ballscrew, enhances higher positioning accuracy, and ensures the ballscrew lifetime.

Mill-Turning Integrated Design (opt.)

- Automatic exchange of triple side turning tool head.
- Turning tool holder Capto C8.
- Rotary Table
  High speed type
  High torque type



- D.D. High speed type rotary table

Rotary Table

High Torque Type	High Speed Type
Table dimension: 3/ 3.5/ 4/ 4.5/ 5m	Table dimension: 1.5/ 1.8/ 2.2m
Max. Table load: 60,000kg	Max. Table load: 5,000kg

High Speed.
High Precision.
High Efficiency.

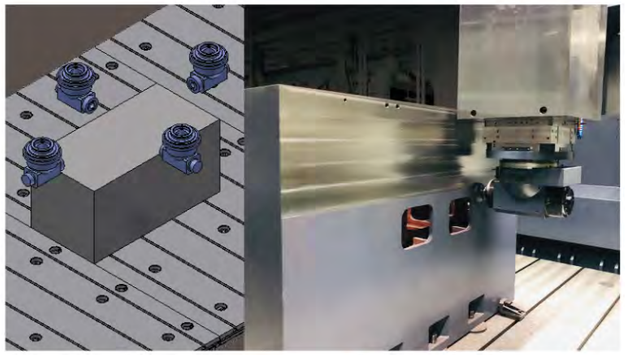
High Geometric Accuracy Machining Performance

Large-scale rigid design and high-precision structural provide high geometric accuracy

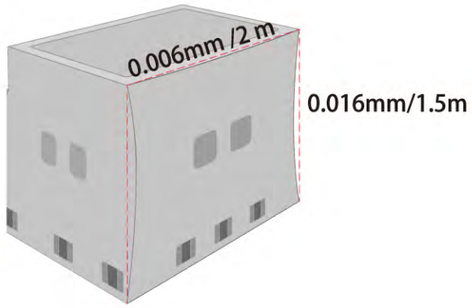
Flatness: 0.006mm/2m

Straightness: 0.016mm/1.5m

Parallelism:

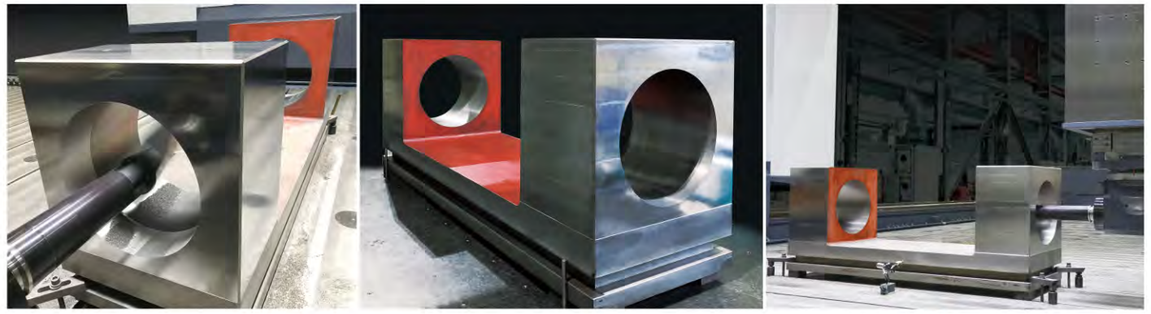


Actual Machining case



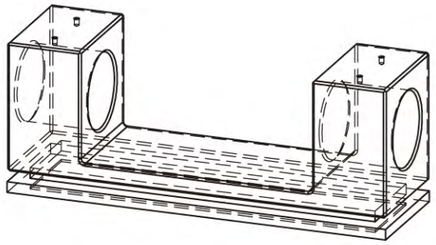
Extremely
Moving Column Drive Technology
Achieve High Efficient Manufacturing Capabilities

High Precision and High Torque Large Opposite-Boring



Actual Machining case

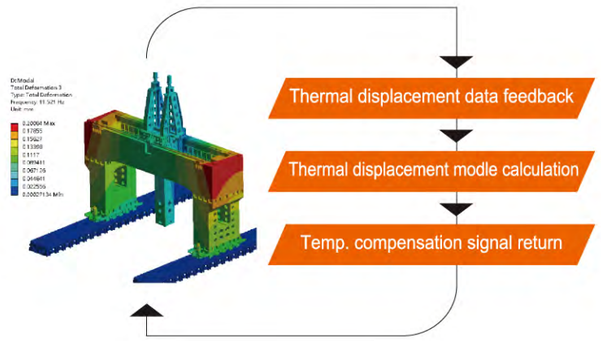
1. Cylindricity: 0.0150mm
2. Holes' Coaxiality: 0.0135mm



Ambient Temperature Compensation, ATC

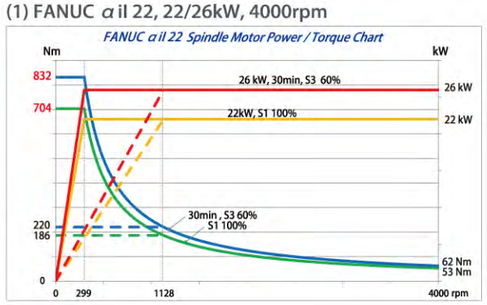
When the machining is processed under the non-fixed temperature environment and also the change of the thermal displacement of the machine structure, the accuracy of the machining products would be affected.

ATC is based on the thermal displacement phenomenon of the machine structure, through the temperature and feed position information returned by the sensor to calculate the thermal displacement value of the machine structure caused by the environmental temperature variation, and accurately control it.

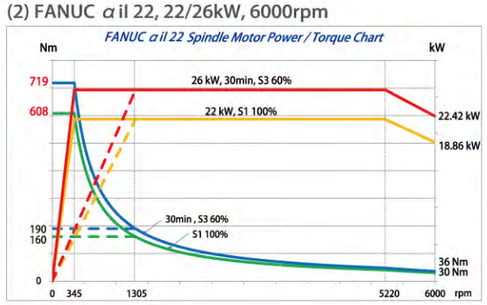


Spindle Power and Torque Charts
FANUC controller

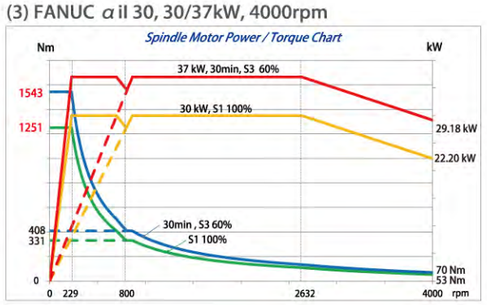
(1) FANUC αil 22, 22/26kW, 4000rpm



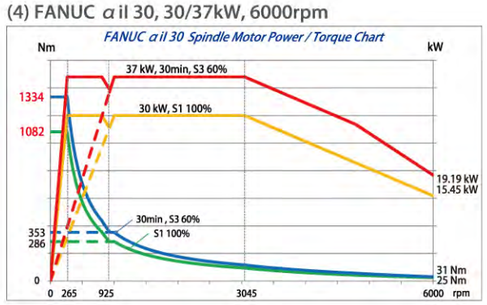
(2) FANUC αil 22, 22/26kW, 6000rpm



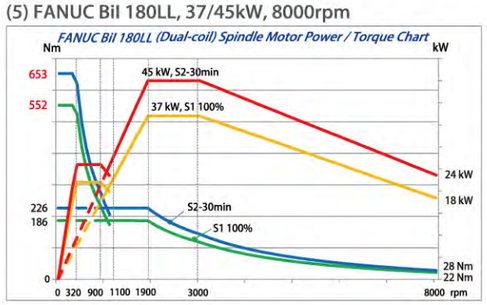
(3) FANUC αil 30, 30/37kW, 4000rpm



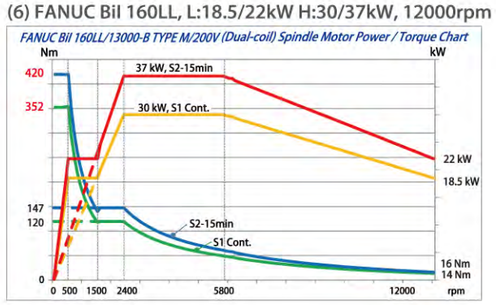
(4) FANUC αil 30, 30/37kW, 6000rpm



(5) FANUC Bil 180LL, 37/45kW, 8000rpm

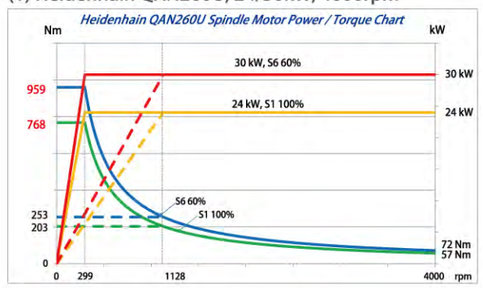


(6) FANUC Bil 160LL, L:18.5/22kW H:30/37kW, 12000rpm

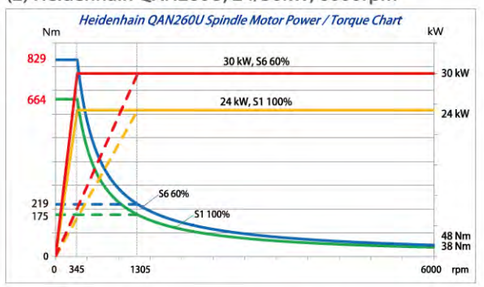


HEIDENHAIN controller

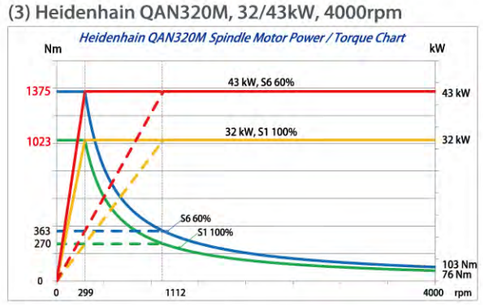
(1) Heidenhain QAN260U, 24/30kW, 4000rpm



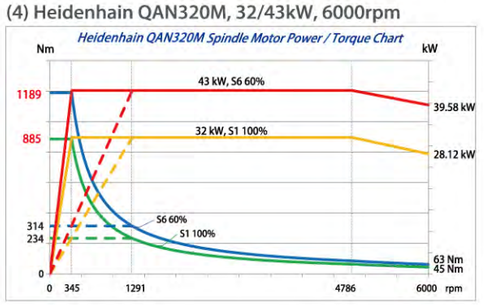
(2) Heidenhain QAN260U, 24/30kW, 6000rpm



(3) Heidenhain QAN320M, 32/43kW, 4000rpm

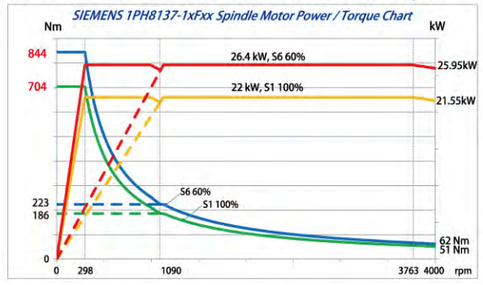


(4) Heidenhain QAN320M, 32/43kW, 6000rpm

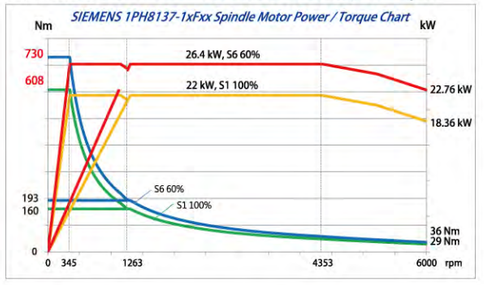


SIEMENS controller

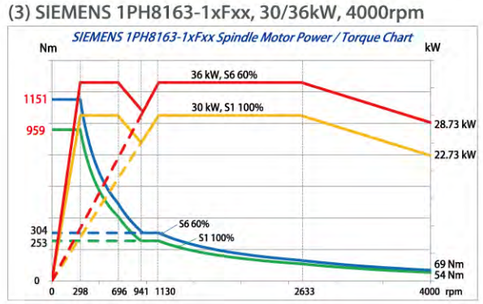
(1) SIEMENS 1PH8137-1xFxx, 22/26.4kW, 4000rpm



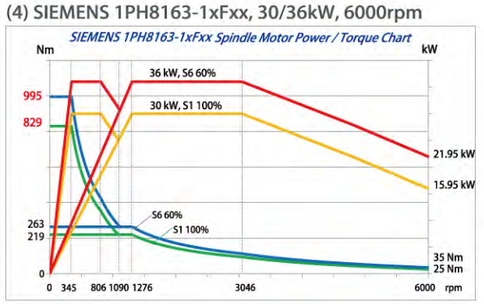
(2) SIEMENS 1PH8137-1xFxx, 22/26.4kW, 6000rpm



(3) SIEMENS 1PH8163-1xFxx, 30/36kW, 4000rpm



(4) SIEMENS 1PH8163-1xFxx, 30/36kW, 6000rpm



XM/XML series

High Speed.
High Precision.
High Efficiency.

Intelligent Multi-face Machining

5-axis level tool point center management TPCM

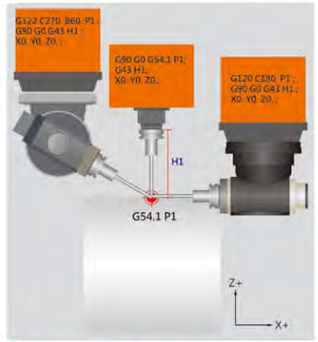
Each type of head attachment with tool center point management, takes vertical workpiece as origin benchmark, and converts the workpiece coordinates to any new specified plane of workpiece coordinates automatically.

Auto coordinates tool axis 3D conversion

3-axis mechanical coordinates system can be automatically converted to machining coordinates system, easily achieving face milling, end milling, drilling and rigid tapping machining operations in different direction.

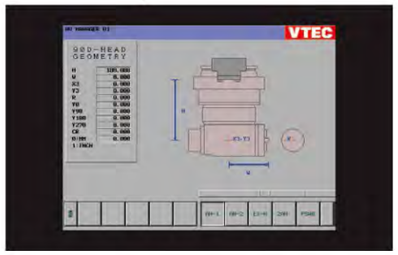
Head attachment dimensions correction

Intelligent compensation on each type of head attachments. The compensation including rotation center, tool size, workpiece coordinates system correction management. It greatly simplifies the complexity of programming and operation to achieve perfect auto multi-angle machining.



TCPM0.04mm

Auto Compensation Software



Auto compensation for attachment heads:

Auto compensating horizontal head center and spindle center.
Auto compensating mechanism mass center and revolution center.

3D coordinates management:

1.V/H tool length and diameter compensation.
2.V/H working coordinate affine transformation.
3.manual interrupting.
4.3D rigid tapping.

Heavy cutting ability

Cutting depth test demonstrated excellent heavy cutting rigidity

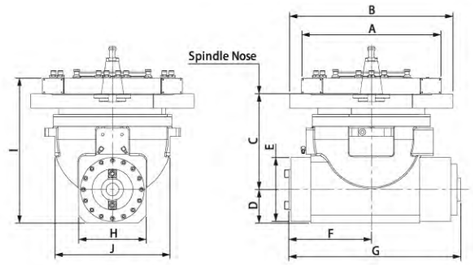
test specification: 22/26kW 4,000rpm spindle

Head attachment	Extended head	90 degree angular head	2-axis head
Tool type	BT-50 face milling tool-diameter Φ125/5 edge		
Cutting material	S45C	S45C	
Spindle speed(rpm)	600	600	
Feed rate(mm/min)	1000	1000	
Machining width(mm)	100	100	
Machining depth	4	5	
Removal rate(cc/min)	400	500	

Auto Multi-Angle Head Attachment

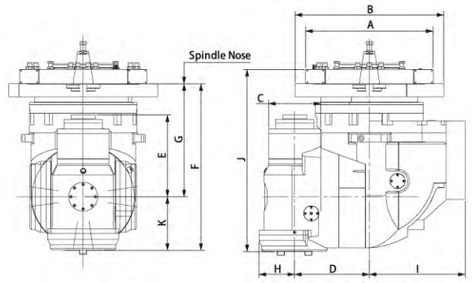
AC 90° angular head

Item	AC 90° angular head	
	G2	G3
Max. speed	3,000rpm	5,000rpm
Max. power	26kW	
Tool clamping	Auto hydraulic clamping	
Head clamping	Auto hydraulic clamping	
C-axis indexing	Auto 1°/ 5°	
Machining coolant	External nozzle	External nozzle
Coolant Through Spindle(opt.)	20 bar. / 70 bar.	
A	Φ436	Φ435
B	Φ436	Φ512
C	300	300
D	100	106
E	Φ200	Φ200
F	259	259
G	515.7	539
H	212	212
I	486	455
J	Φ352	Φ360



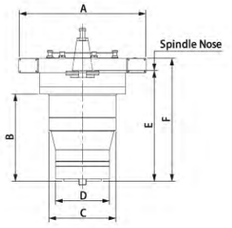
AC 2-axis head

Item	AC 2-axis head	
	G2	G3
Max. speed	3,000rpm	4,000rpm
Max. power	26kW	
Tool clamping	Auto hydraulic clamping	
Head clamping	Auto hydraulic clamping	
C-axis indexing	Auto 1°/ 5°	Auto 1°/ 5°
B-axis indexing	Auto 5°	Auto 1°/ 5°
Machining coolant	External nozzle	Spindle ring cutting coolant system
Coolant Through Spindle(opt.)	20 bar. / 70 bar.	
A	Φ436	Φ435
B	Φ436	Φ512
C	Φ200	Φ178
D	350	258
E	300	281
F	573.5	559
G	388.5	330
H	122.5	106
I	329.5	206
J	627.3	585
K	259	185



AC extended head

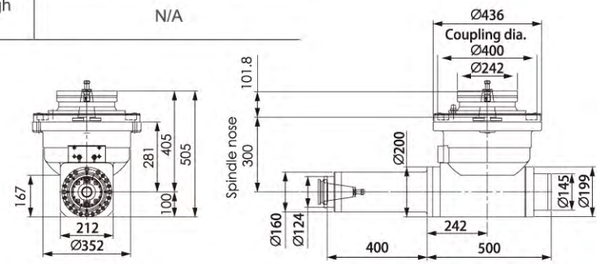
Item	AC extended head 300mm		AC extended head 420mm	
	G2	G3	G2	G3
Max. speed	4,000rpm	5,000rpm	4,000rpm	5,000rpm
Max. power	26kW			
Tool clamping	Auto hydraulic clamping			
Head clamping	Auto hydraulic clamping			
C-axis indexing	Auto 1°/ 5°			
Machining coolant	External nozzle	External nozzle	External nozzle	External nozzle
A	Φ436	Φ435	Φ436	Φ435
B	300	300	427	427
C	Φ230	Φ230	Φ230	Φ230
D	Φ185	Φ185	Φ185	Φ185
E	374	381	501	501
F	423	423	570	570



Powerful and Precision Boring Head Attachment

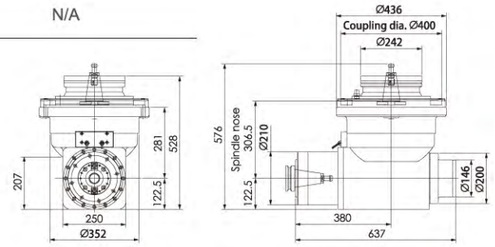
400mm AC 90° spindle extension head

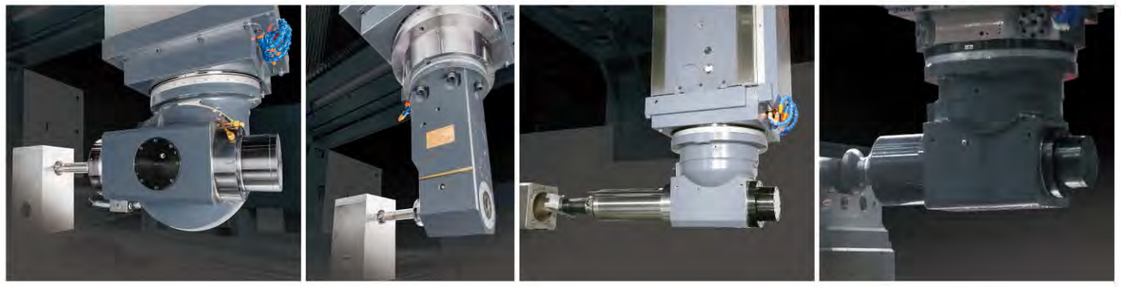
Item	400mm AC 90° spindle extension head
Max. speed	2000 rpm
Max. power	26 kW
Tool clamping	Manual hydraulic clamping
Head clamping	Auto hydraulic clamping
C-axis indexing	(1°) / 5°
Machining coolant	External nozzle
Coolant Through Spindle(opt.)	N/A



AC 90° angular head (Strong)

Item	AC 90° angular head (Strong)
Max. speed	3,000 rpm
Max. power	26 kW
Tool clamping	Auto hydraulic clamping
Head clamping	Manual /Auto hydraulic clamping
C-axis indexing	5°
Machining coolant	External nozzle
Coolant Through Spindle(opt.)	N/A



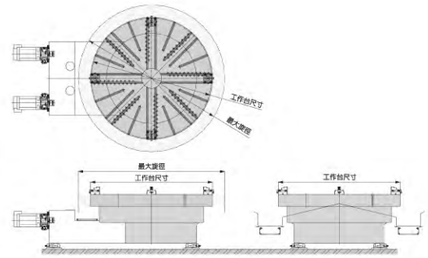


Turning Solutions

High Torque / High Speed Rotary Table

High Torque Type

Table dimension	mm	Φ3,000	Φ3,500	Φ4,000	Φ4,500	Φ5,000
Max. rotary dimension	mm	Φ3,700	Φ4,200	Φ4,700	Φ5,200	Φ6,000
Table load	kg	20,000	20,000	25,000	25,000	30,000
Rated torque (cont./30min)	Nm	90,840/ 110,400	90,840/ 110,400	191,200/ 239,000	191,200/ 239,000	246,400/ 308,000



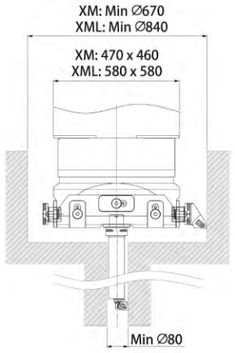
High Speed Type

Table dimension	mm	Φ1,500	Φ1,800	Φ2,200
Table load (Central Region)	kg	3,000	5,000	5,000
Speed	rpm	350	250	200
Rated torque	Nm	4,520	4,520	7,290

Triple Side Turning Head

Item	Triple side turning head
Shank capacity	3
Shank direction	2 Horizontal/ 1 Vertical
Shank Spec.	Capto C8
Head clamping	Auto
Tool clamping	Manual
Machining coolant	External nozzle

3-side turning application



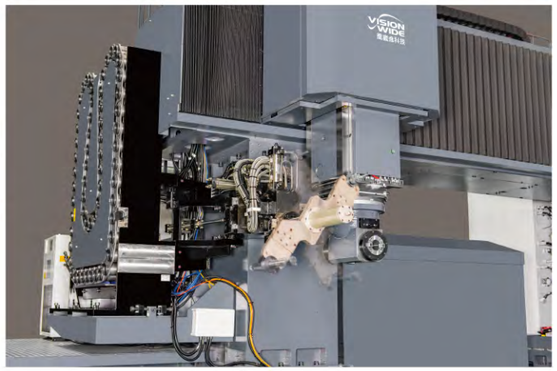
Deep hole turning applications

XM/XML series

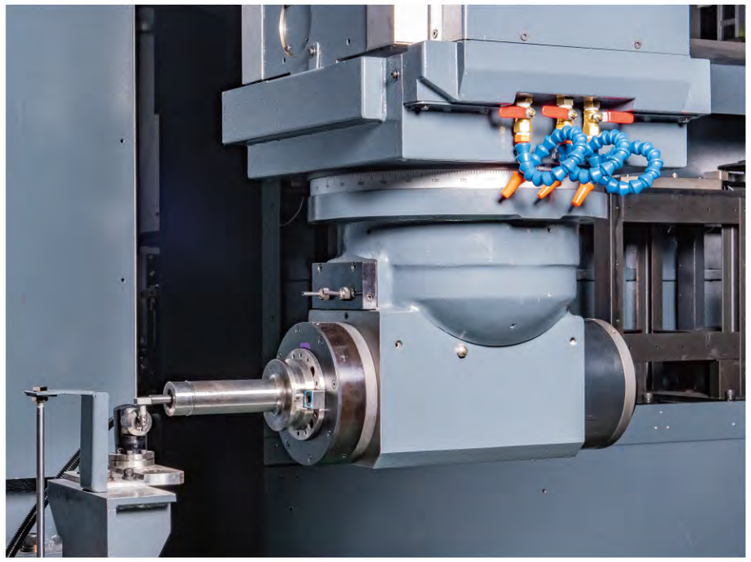
High Speed.
High Precision.
High Efficiency.

XM Best Use of Space

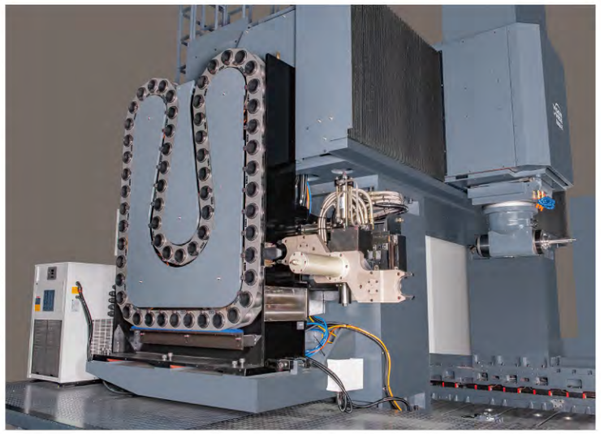
- Moving column type machines use 40 % less space than moving table type machines.
- The tool magazine is located at left side of machine. It move with column, the machine can do tool change at any X position. Shorten the non-machining time.



- Automatic tool measuring system, which can measure and correct tool length and tool diameter after tool change, greatly reduce tool setting time.
- The measurement system is stand-alone from the working range to ensure accuracy and service life.
- Repeat positioning accuracy, less than 0.005mm.



- The tool magazine, hydraulic, cooling and lubricating system located on the column side. Easy to do daily maintenance.



High Speed.
High Precision.
High Efficiency.

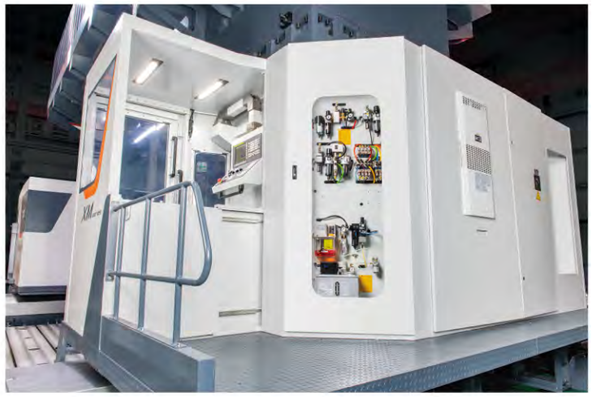
Friendly Operating Interface

Wide and convenient work space for set up

- Large workpiece placement space, customized excavation type foundation provide same table height as the ground, which is convenient for workpiece set-up.
- The cooling water and air gun interface are near to the operating side, easy for cleaning.

Provide operators with a safe and simple operating environment

- Confrontable operation room
- Ergonomic swing operation box with easy to operate panel
- Wireless handwheel



CNC TalkBox

Manufacturing Management System
Collect product information from the machine
Supports multiple controllers/multi-brand machines
Remote production management

User Management

Machine Management

Production History Monitoring

CNC TalkBox

Machine Monitoring

Machine Production Analysis

Statistical Report

NC Program Management

Intelligent Factory Management

CNC TalkBox possesses computing, storage and industrial Internet functions. After computing, the production information can be uploaded to the cloud database or mobile devices to achieve the less hardware managements and the optimal mobile data exchanging capacity.

Economic

Small hardware devices for rapid introduction of industrial Internet of Things (IoT).

Stable

Timely record of production log is a benefit to analyze process and increase production capacity.

Expandable

Complete data collection can make better decisions for process, dispatch, tool and material management.

Working Range

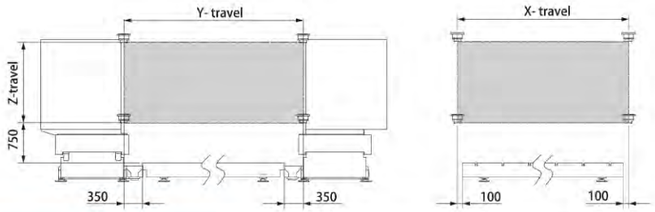
Vertical

Unit:mm

Model	X axis travel	Y axis travel	Z axis travel
XM-32	8,200(+1m) ~60,200	3,200	1,000
			1,200
			1,400
XM-37	8,200(+1m) ~60,200	3,700	1,000
			1,200
			1,400
XM-42	8,200(+1m) ~60,200	4,200	1,000
			1,200
			1,400

Unit:mm

Model	X axis travel	Y axis travel	Z axis travel
XML-37	8,200(+1m) ~60,200	3,700	1,500
			2,000
			2,200
XML-42	8,200(+1m) ~60,200	4,200	1,500
			2,000
			2,200
XML-47	8,200(+1m) ~60,200	5,200	1,500
			2,000
			2,200
XML-57	8,200(+1m) ~60,200	5,700	1,500
			2,000
			2,200



AC 90° head

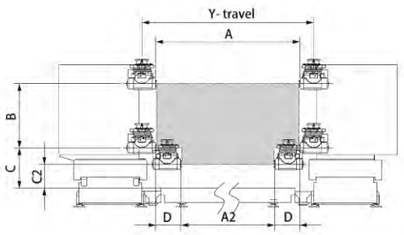
Unit:mm

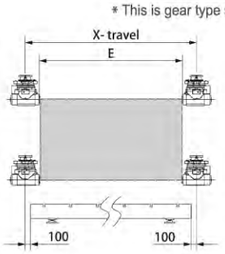
Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	A2	B	C	C2	D	E
XM-32	G2	8,200(+1m) ~60,200	3,200	1,000	2,682	1,653	800	650	450	515	X-518
				1,200			1,000				
				1,400			1,200				
	G3		3,200	1,000	2,682	1,606	795	655	450	538	X-518
				1,200			995				
				1,400			1,195				
XM-37	G2	8,200(+1m) ~60,200	3,700	1,000	3,182	2,153	800	650	450	515	X-518
				1,200			1,000				
				1,400			1,200				
	G3		3,700	1,000	3,182	2,106	795	655	450	538	X-518
				1,200			995				
				1,400			1,195				
XM-42	G2	8,200(+1m) ~60,200	4,200	1,000	3,682	2,653	800	650	450	515	X-518
				1,200			1,000				
				1,400			1,200				
	G3		4,200	1,000	3,682	2,606	795	655	450	538	X-518
				1,200			995				
				1,400			1,195				

Unit:mm

Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	A2	B	C	C2	D	E
XML-37	G2	8,200(+1m) ~60,200	3,700	1,500	3,182	2,289	1,200	750	450	447	X-518
				2,000			1,700				
				2,200			1,900				
	G3		3,700	1,500	3,182	2,242	1,195	755	450	470	X-518
				2,000			1,695				
				2,200			1,895				
XML-42	G2	8,200(+1m) ~60,200	4,200	1,500	3,682	2,789	1,200	750	450	447	X-518
				2,000			1,700				
				2,200			1,900				
	G3		4,200	1,500	3,682	2,742	1,195	755	450	470	X-518
				2,000			1,695				
				2,200			1,895				
XML-47	G2	8,200(+1m) ~60,200	4,700	1,500	4,182	3,289	1,200	750	450	447	X-518
				2,000			1,700				
				2,200			1,900				
	G3		4,700	1,500	4,182	3,242	1,195	755	450	470	X-518
				2,000			1,695				
				2,200			1,895				
XML-57	G2	8,200(+1m) ~60,200	5,700	1,500	5,182	4,289	1,200	750	450	447	X-518
				2,000			1,700				
				2,200			1,900				
	G3		5,700	1,500	5,182	4,242	1,195	755	450	470	X-518
				2,000			1,695				
				2,200			1,895				

* This is gear type spindle travel, Built-in spindle is B-40mm





AC 2-axis head (Vertical)

Unit:mm

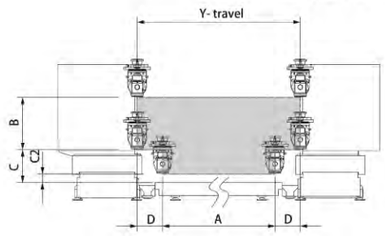
Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	B	C	C2	D
XM-32	G2	8,200(+1m) ~ 60,200	3,200	1,000	2,100	641	550	191	550
				1,200		841			
				1,400		1,041			
	G3		3,200	1,000	2,072	625	550	175	564
				1,200		825			
				1,400		1,025			
XM-37	G2	8,200(+1m) ~ 60,200	3,700	1,000	2,600	641	550	191	550
				1,200		841			
				1,400		1,041			
	G3		3,700	1,000	2,572	625	550	175	564
				1,200		825			
				1,400		1,025			
XM-42	G2	8,200(+1m) ~ 60,200	4,200	1,000	3,100	641	550	191	550
				1,200		841			
				1,400		1,041			
	G3		4,200	1,000	3,072	625	550	175	564
				1,200		825			
				1,400		1,025			

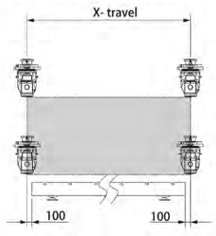
* This is gear type spindle travel, Built-in spindle is B-40mm

Unit:mm

Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	B	C	C2	D
XML-37	G2	8,200(+1m) ~ 60,200	3,700	1,500	2,736	1,041	650	191	482
				2,000		1,541			
				2,200		1,741			
	G3		3,700	1,500	2,708	1,025	650	175	496
				2,000		1,525			
				2,200		1,725			
XML-42	G2	8,200(+1m) ~ 60,200	4,200	1,500	3,236	1,041	650	191	482
				2,000		1,541			
				2,200		1,741			
	G3		4,200	1,500	3,208	1,025	650	175	496
				2,000		1,525			
				2,200		1,725			
XML-47	G2	8,200(+1m) ~ 60,200	4,700	1,500	3,736	1,041	650	191	482
				2,000		1,541			
				2,200		1,741			
	G3		4,700	1,500	3,708	1,025	650	175	496
				2,000		1,525			
				2,200		1,725			
XML-57	G2	8,200(+1m) ~ 60,200	5,700	1,500	4,736	1,041	650	191	482
				2,000		1,541			
				2,200		1,741			
	G3		5,700	1,500	4,708	1,025	650	175	496
				2,000		1,525			
				2,200		1,725			

* This is gear type spindle travel, Built-in spindle is B-40mm





AC 2-axis head (Horizontal)

Unit:mm

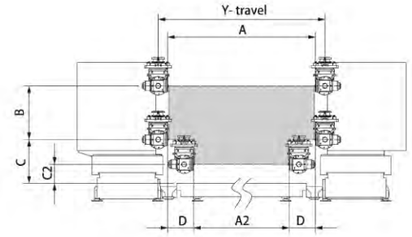
Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	A2	B	C	C2	D	E
XM-32	G2	8,200(+1m) ~ 60,200	3,200	1,000	2,682	1,581	641	809	450	550	X-518
				1,200			841				
				1,400			1,041				
	G3		3,200	1,000	2,830	1,702	625	735	360	564	X-370
				1,200			825				
				1,400			1,025				
XM-37	G2	8,200(+1m) ~ 60,200	3,700	1,000	3,182	2,081	641	809	450	550	X-518
				1,200			841				
				1,400			1,041				
	G3		3,700	1,000	3,330	2,202	627	735	360	564	X-370
				1,200			827				
				1,400			1,027				
XM-42	G2	8,200(+1m) ~ 60,200	4,200	1,000	3,682	2,581	625	809	450	550	X-518
				1,200			825				
				1,400			1,025				
	G3		4,200	1,000	3,830	2,702	625	735	360	564	X-370
				1,200			825				
				1,400			1,025				

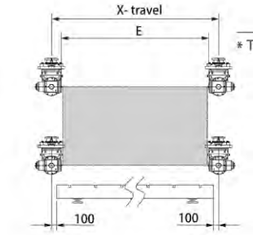
* This is gear type spindle travel, Built-in spindle is B-40mm

Unit:mm

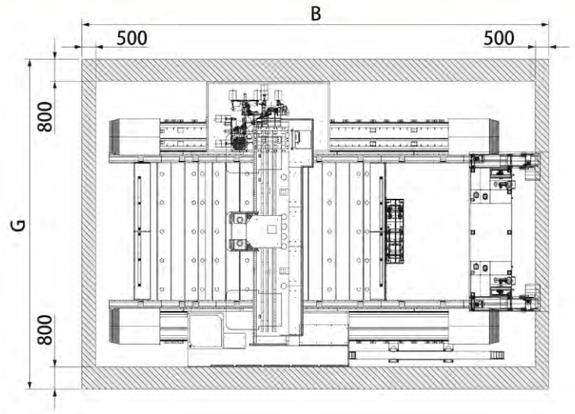
Model	AC Spec.	X axis travel	Y axis travel	Z axis travel	A	A2	B	C	C2	D	E
XML-37	G2	8,200(+1m) ~ 60,200	3,700	1,500	3,181	1,217	1,041	909	450	482	X-518
				2,000			1,541				
				2,200			1,741				
	G3		3,700	1,500	3,330	1,338	1,025	835	360	496	X-370
				2,000			1,525				
				2,200			1,725				
XML-42	G2	8,200(+1m) ~ 60,200	4,200	1,500	3,681	2,217	1,041	909	450	482	X-518
				2,000			1,541				
				2,200			1,741				
	G3		4,200	1,500	3,830	2,338	1,025	835	360	496	X-370
				2,000			1,525				
				2,200			1,725				
XML-47	G2	8,200(+1m) ~ 60,200	4,700	1,500	4,181	3,217	1,041	909	450	482	X-518
				2,000			1,541				
				2,200			1,741				
	G3		4,700	1,500	4,330	3,338	1,025	835	360	496	X-370
				2,000			1,525				
				2,200			1,725				
XML-57	G2	8,200(+1m) ~ 60,200	5,700	1,500	5,181	4,217	1,041	909	450	482	X-518
				2,000			1,541				
				2,200			1,741				
	G3		5,700	1,500	5,330	4,338	1,025	835	360	496	X-370
				2,000			1,525				
				2,200			1,725				

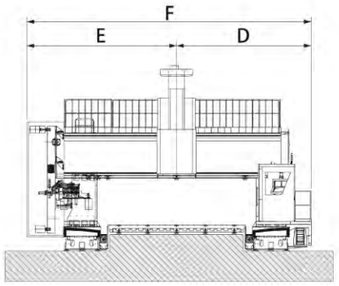
* This is gear type spindle travel, Built-in spindle is B-40mm

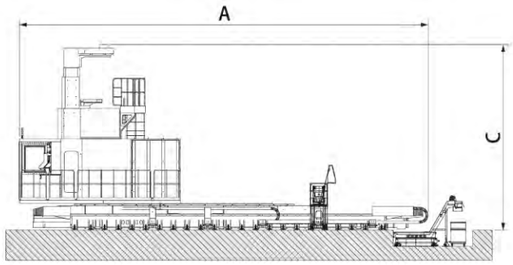




Machine Dimension







XM series

Unit:mm

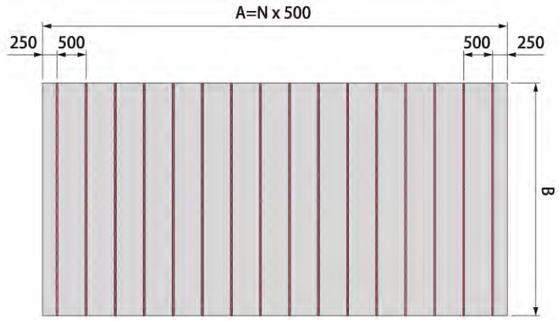
Model	X axis travel	Y axis travel	Z axis travel	A	B	C	D	E	F	G
XM-32	8,200(+1m)~60,200	3,200	1,000	X+5,970	X+8,300	5,541	2,610	3,870	6,480	8,460
			1,200			5,741				
			1,400			5,941				
XM-37	8,200(+1m)~60,200	3,700	1,000	X+5,970	X+8,300	5,541	2,860	4,120	6,980	8,960
			1,200			5,741				
			1,400			5,941				
XM-42	8,200(+1m)~60,200	4,200	1,000	X+5,970	X+8,300	5,541	3,110	4,370	7,480	9,460
			1,200			5,741				
			1,400			5,941				

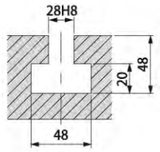
XML series

Unit:mm

Model	X axis travel	Y axis travel	Z axis travel	A	B	C	D	E	F	G
XML-37	8,200(+1m)~60,200	3,700	1,500	X+6,670	X+8,800	6,742	3,900	4,445	8,345	10,000
			2,000			7,742				
			2,200			8,142				
XML-42	8,200(+1m)~60,200	4,200	1,500	X+6,670	X+8,800	6,742	4,150	4,695	8,845	10,500
			2,000			7,742				
			2,200			8,142				
XML-47	8,200(+1m)~60,200	4,700	1,500	X+6,670	X+8,800	6,742	4,400	4,945	9,345	11,000
			2,000			7,742				
			2,200			8,142				
XML-57	8,200(+1m)~60,200	5,700	1,500	X+6,670	X+8,800	6,742	4,900	5,445	10,345	12,000
			2,000			7,742				
			2,200			8,142				

Table & T-slot



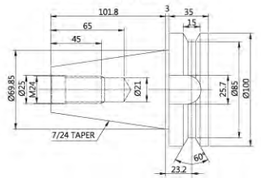


Unit:mm

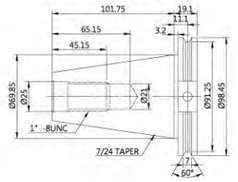
Series	Model	A	B	N (pcs.)
XM	XM-32	8,000(+1M)~60,000	2,500	16~120
	XM-37		3,000	
	XM-42		3,500	
XML	XML-37	8,000(+1M)~60,000	3,000	16~120
	XML-42		3,500	
	XML-47		4,000	
	XML-57		5,000	

Tool Shank & Pull Stud

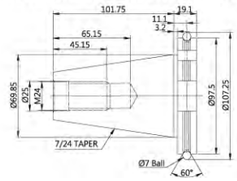
Tool shank
BT-50, MAS403



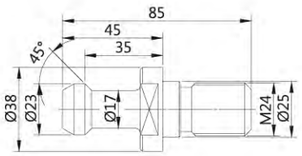
Tool shank
CAT-50, ANSI B5.50



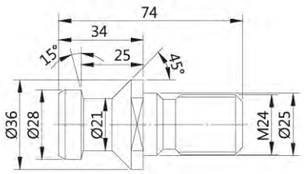
Tool shank
DIN-50, DIN 69871/ISO 7388/1



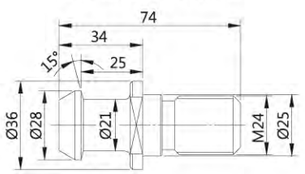
Pull stud bolt
MAS403 P50T-1



Pull stud bolt
DIN-50, DIN 69872



Pull stud bolt
DIN-50, ISO 7388/2/A



High Speed.
High Precision.
High Efficiency.

XM Specification

Model		Unit	XM-32	XM-37	XM-42
Travel					
X axis		mm	8,200(+1m)~60,200		
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	mm	750~1,750		
	Z axis=1,200	mm	750~1,950		
	Z axis=1,400	mm	750~2,150		
Max. allowable workpiece width		mm	3,000	3,500	4,000
TABLE					
Dimension (W x L)		m	2.5 x 8~60	3 x 8~60	3.5 x 8~60
T-slot (Dimension x Pitch)		mm	28 x 500		
Max. table load		kg/m^2	5,000		
SPINDLE					
Spindle motor (cont./30 min 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 feedrate		mm/min	1-10,000		
Rapid traverse(X/Y/Z)		m/min	20 / 20 / 12		
X,Y,Z power capacity		kW	X:4.5x2, Y:4.5 , Z:4.5x2		
ATC					
ATC capacity		pcs	32 / 40(Opt.) / 60(Opt.)		
Max. tool weight		kg	18		
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		
Max. floor space (LxWxH)*		m	16.5 x 8.96 x 5.94	16.5 x 9.46 x 5.94	16.5 x 9.96 x 5.94

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

Standard accessores and 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 handwheel
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

XML Specification

Model		Unit	XML-37	XML-42	XML-47	XML-57
Travel						
X axis		mm	8,200(+1m)~60,200			
Y axis		mm	3,700	4,200	4,700	5,700
Z axis		mm	1,500 / 1,800(Opt.) /2,000(Opt.) / 2,200(Opt.)			
Distance from spindle nose to table	Ram size	mm	580 x 580			
	Z axis=1,500	mm	850~2,350			
	Z axis=1,800	mm	850~2,650			
	Z axis=2,000	mm	850~2,850			
	Z axis=2,200	mm	850~3,050			
Max. allowable workpiece width		mm	3,700	4,200	4,700	5,700
TABLE						
Dimension (W x L)		m	3 x 8~60	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 (cont./30 min 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 feedrate		mm/min	1-10,000			
Rapid traverse(X/Y/Z)		m/min	20 / 20 / 12			
X,Y,Z power capacity		kW	X:4.5x4; Y:5.5; Z:14x2			
ATC						
ATC capacity		pcs	32 / 40(Opt.) / 60(Opt.)			
Max. tool weight		kg	18			
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	80			
Pneumatic input pressure		kg/cm^2	6			
Max. floor space (LxWxH)*		m	17 x 10 x 6.74	17 x 10.5 x 6.74	17 x 11 x 6.74	17 x 12 x 6.74

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

Option accessores and 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/ 1,400 mm
   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