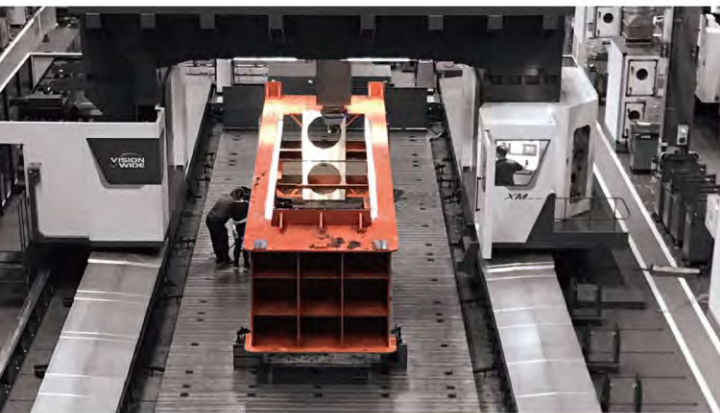


XM XML SERIES



VISION WIDE TECH CO., LTD.

No. 1126-2, Bishan Rd., Caotun Township, Nantou 542, Taiwan
Tel: +886-49-2338888
Fax: +886-49-2330083

VISION WIDE (AH) TECH CO., LTD.

No. 1049, Dongcheng Road, Bowang District, Ma'anshan City,
Anhui Province 243131, China
Tel : +86-05552908886

E-mail: info@visionwide.com.tw
www.visionwide-tech.com



XM/XML-E-202301

XM/XML SERIES

EXTREMELY MIGHTY MACHINING CENTER



**VISION
WIDE**
Solution . Satisfaction . Smile

XM/XML ***SERIES***

EXTREMELY MIGHTY MACHINING CENTER

Everyday /
Everything we know

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

XM SERIES

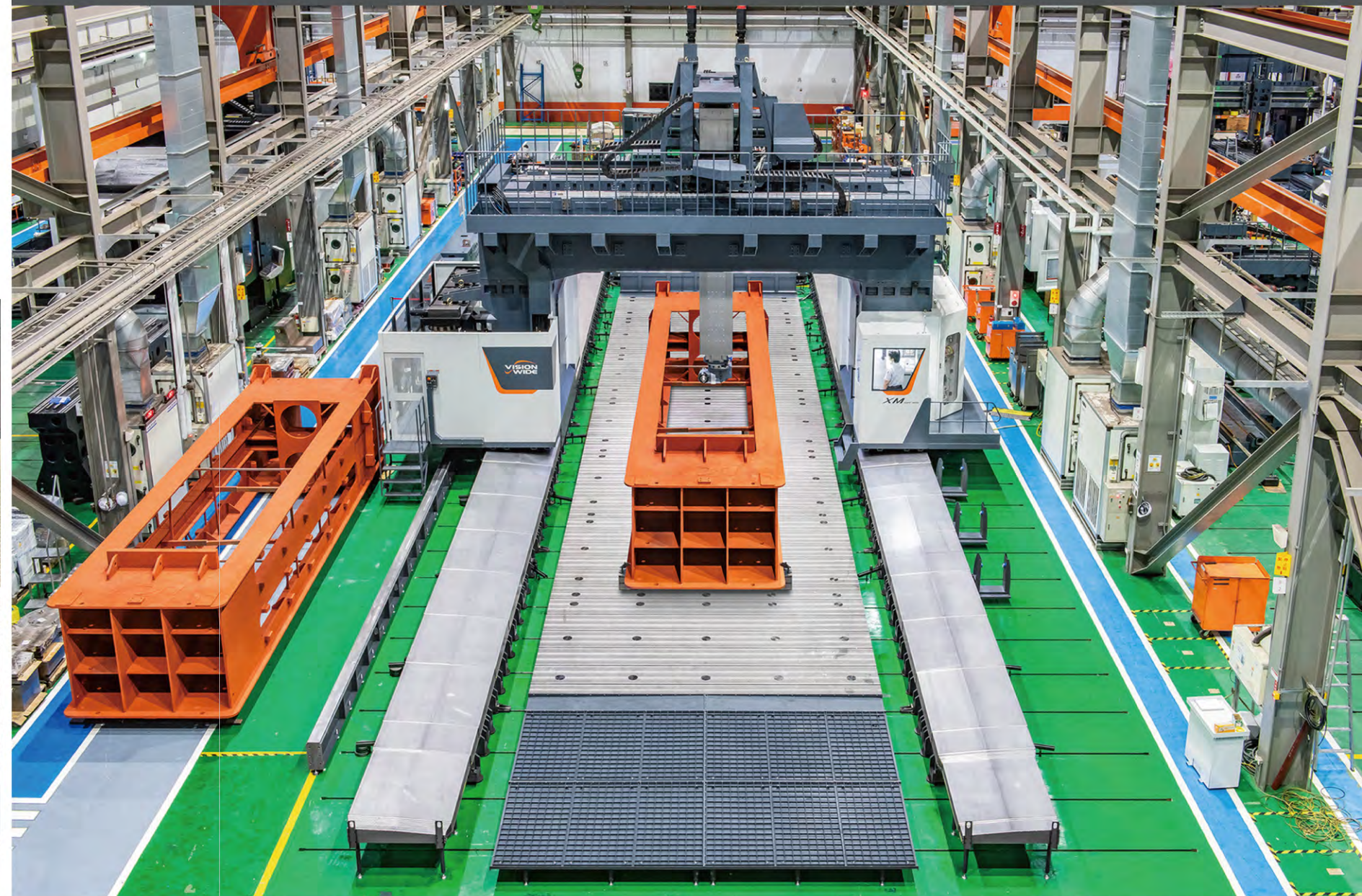
Moving Column Machining Center

- 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 foundation



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: 6,100mm

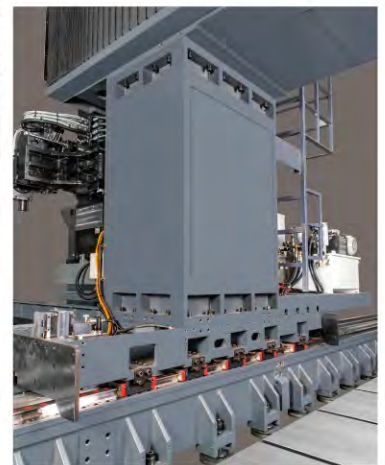
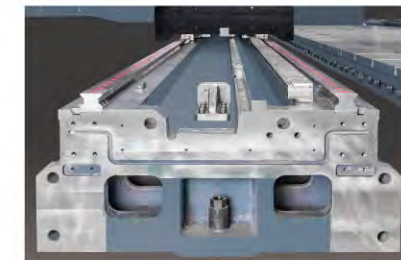


High-Speed X-axis structure

- 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

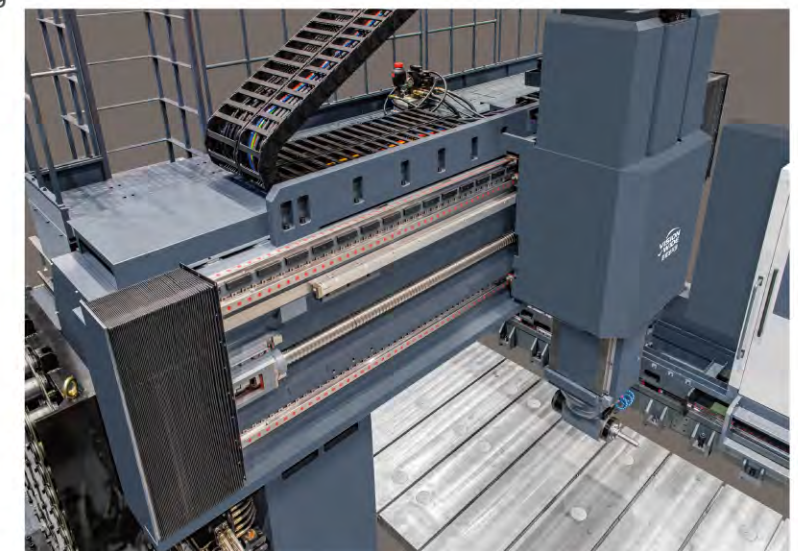


High Straightness & Anti-torsion Structure Y-axis Design

- 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

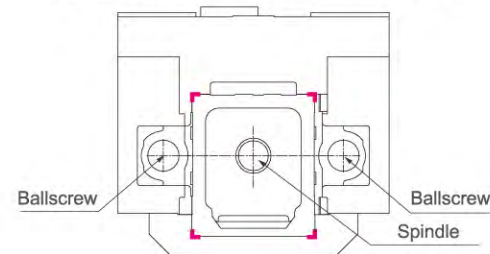


Symmetrical Z-axis Center of Gravity Drive

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 ram. 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 ram. 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

Table dimension: 3/ 3.5/ 4/ 4.5/ 5m

Max. Table load: 60,000kg

High Speed Type

Table dimension: 1.5/ 1.8/ 2.2m

Max. Table load: 5,000kg

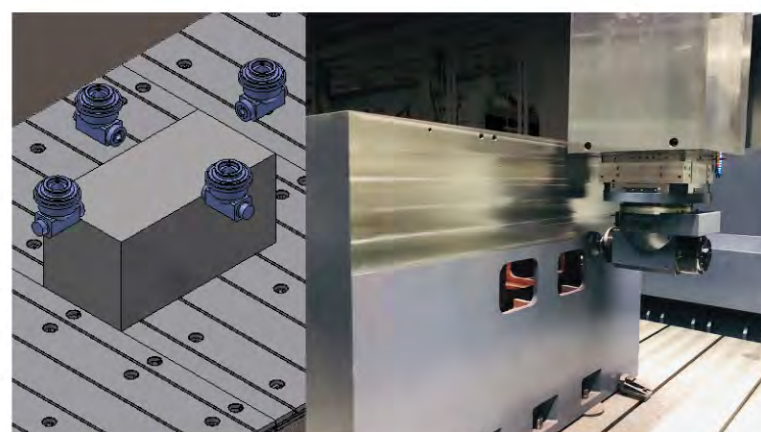
High Geometric Accuracy Machining Performance

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

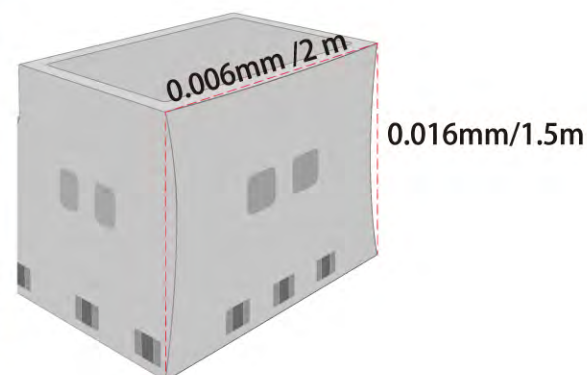
Flatness: 0.006mm/2m

Straightness: 0.016mm/1.5m

Parallelism:



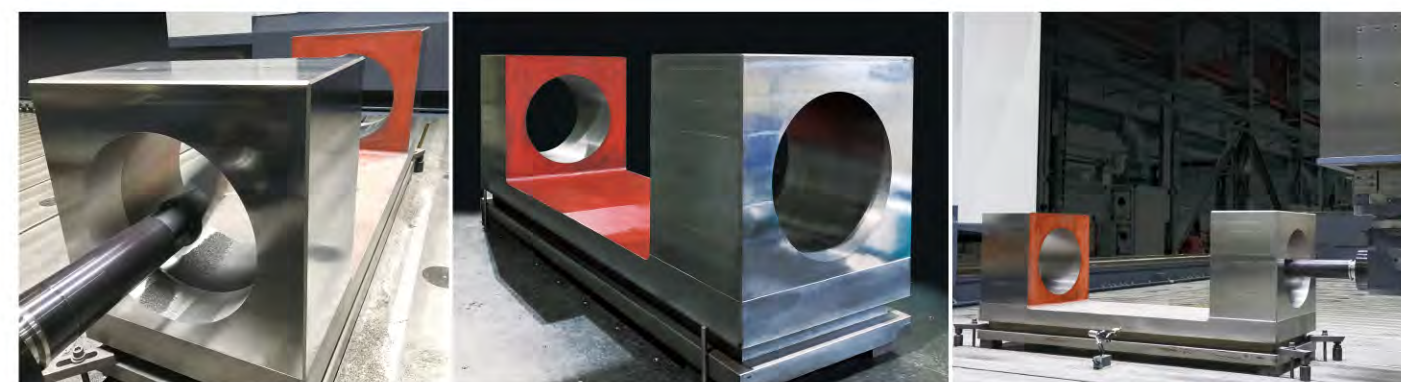
- Actual Machining case



Extremely Moving Column Drive Technology Achieve High Efficient Manufacturing Capabilities

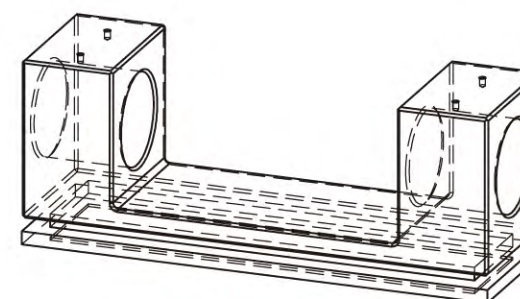


High Precision and High Torque Large Opposite-Boring



● Actual Machining case

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

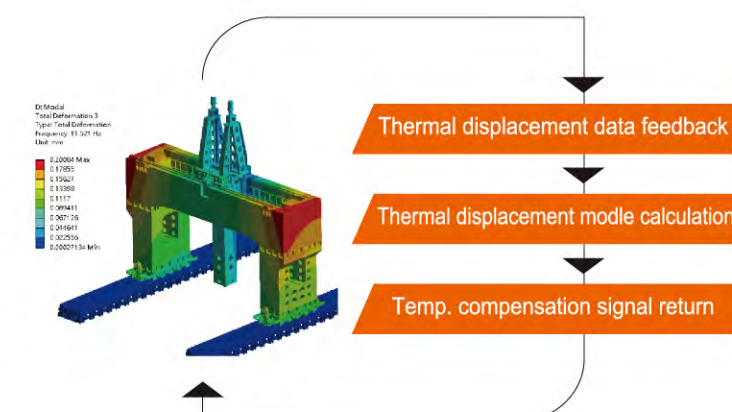


地址: 广州市天河区	电话: 0860-6-2233388	地址: 171 号 17 楼	传真: 0860-6-2233388
	电话: 0860-6-2233383	地址: 170 号 17 楼	传真: 0860-6-2233383
 番禺进科技股份有限公	http://www.vision-tech.com	地址: 17 号 17 楼	传真: 0860-6-2233388
		地址: 170 号 17 楼	传真: 0860-6-2233383
负责人: 刘建生	邮编: 4202	地址: 17 号 17 楼	传真: 0860-6-2233388
		地址: 170 号 17 楼	传真: 0860-6-2233383

Ambient Temperature Compensation, ATC

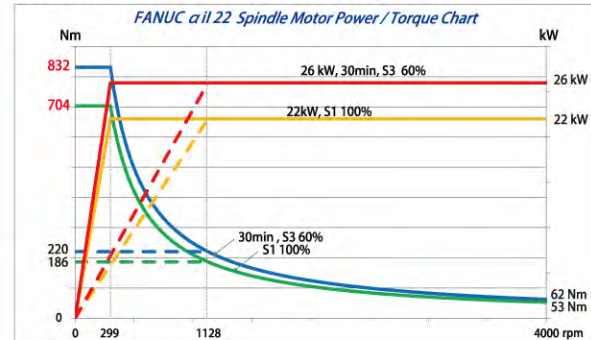
When the machining is processed under the non-fixed temperature environment and also the change of the thermal displacement of the machine structure, the accuracy of the machining products would be affected.

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.

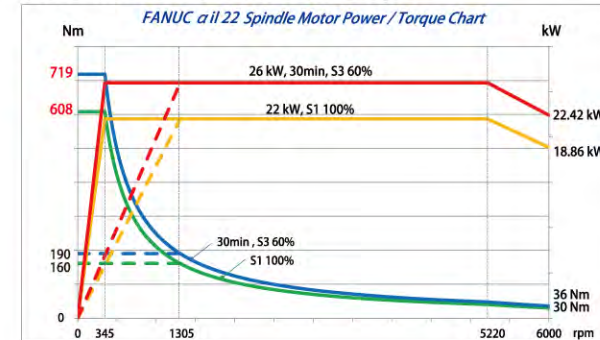


Spindle Power and Torque Charts FANUC controller

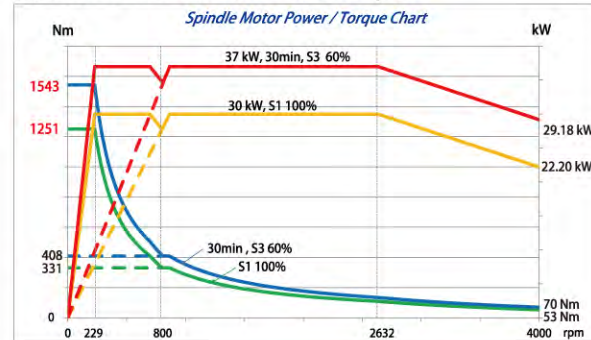
(1) FANUC α il 22, 22/26kW, 4000rpm



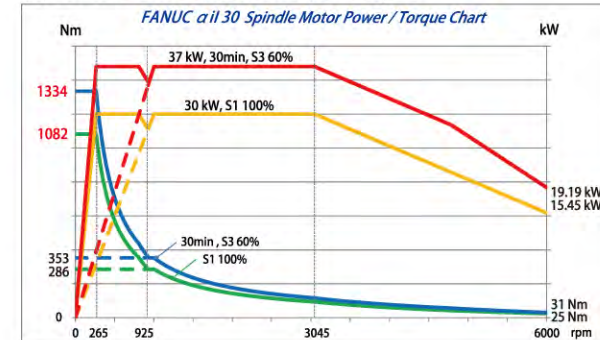
(2) FANUC α il 22, 22/26kW, 6000rpm



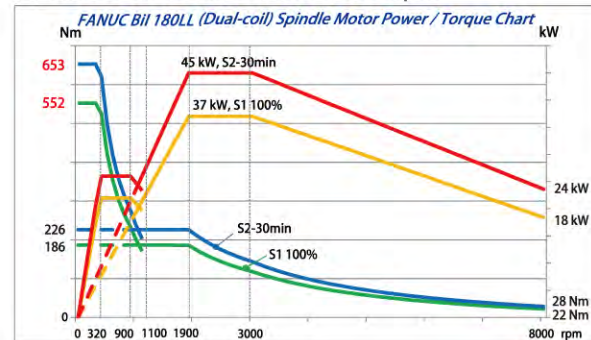
(3) FANUC α il 30, 30/37kW, 4000rpm



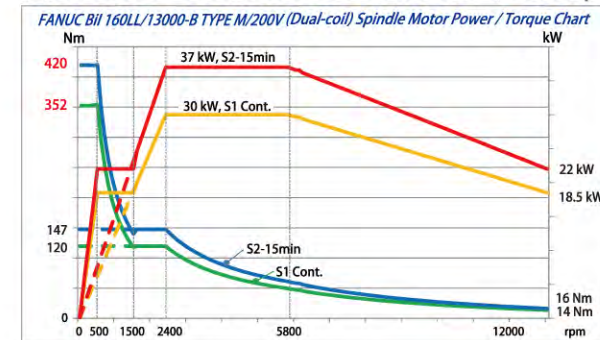
(4) FANUC α il 30, 30/37kW, 6000rpm



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

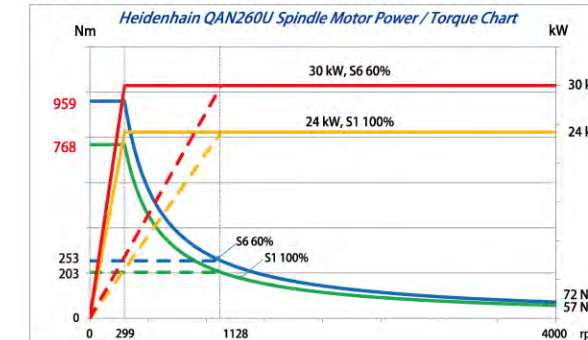


(6) FANUC Bii 160LL, L:18.5/22kW H:30/37kW, 12000rpm

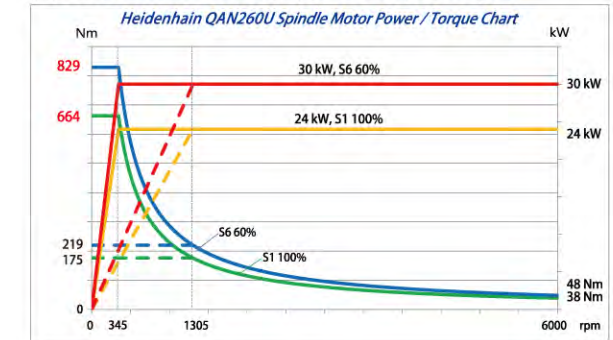


HEIDENHAIN controller

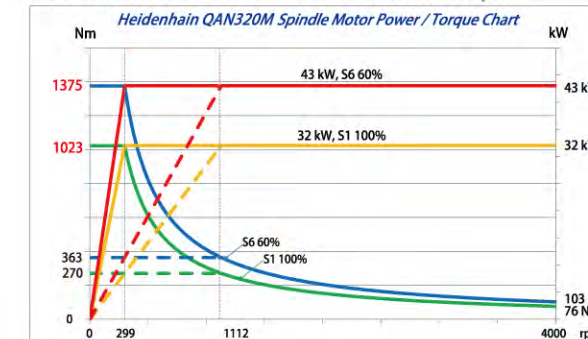
(1) Heidenhain QAN260U, 24/30kW, 4000rpm



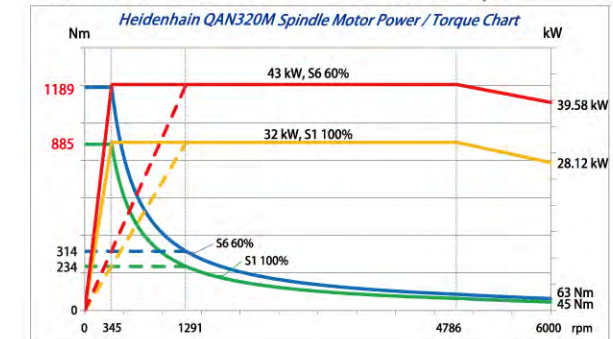
(2) Heidenhain QAN260U, 24/30kW, 6000rpm



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

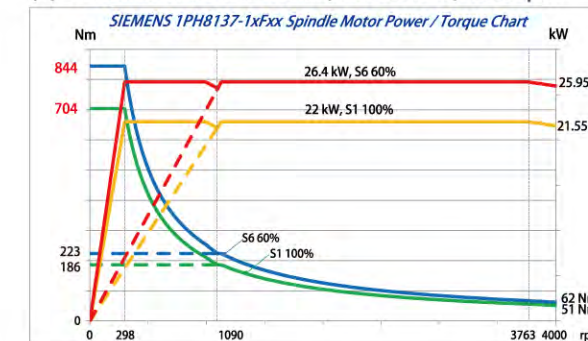


(4) Heidenhain QAN320M, 32/43kW, 6000rpm

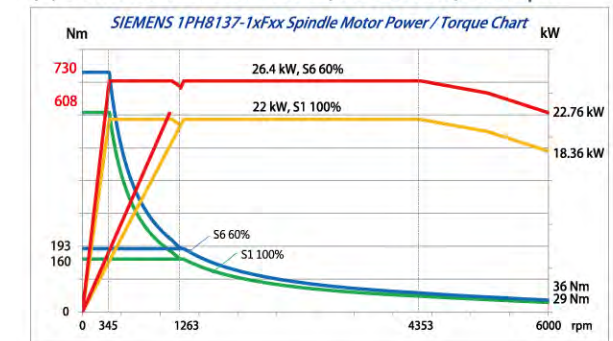


SIEMENS controller

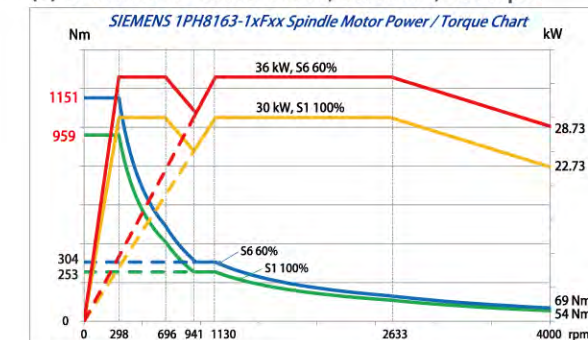
(1) SIEMENS 1PH8137-1xFxx, 22/26.4kW, 4000rpm



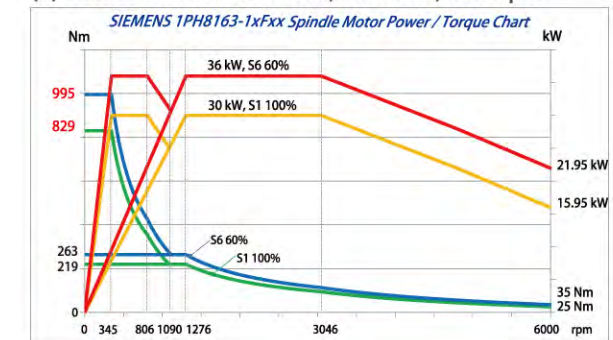
(2) SIEMENS 1PH8137-1xFxx, 22/26.4kW, 6000rpm



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



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



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

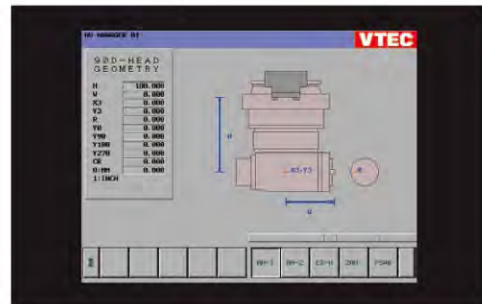
3-axis mechanical coordinates system can be automatically converted to machining coordinates system, easily achieving face milling, end milling, drilling and rigid tapping machining operations in different direction.

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.



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

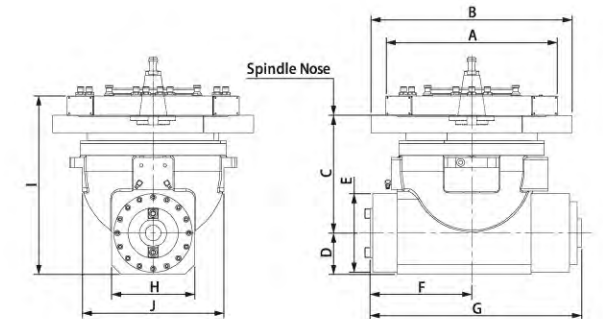
Head attachment	Extended head	90 degree angular head	2-axis head
Tool type	BT-50 face milling tool-diameter $\Phi 125/5$ edge		
Cutting material	S45C	S45C	
Spindle speed(rpm)	600	600	
Feed rate(mm/min)	1000	1000	
Machining width(mm)	100	100	
Machining depth	4	5	
Removal rate(cc/min)	400	500	

Auto Multi-Angle Head Attachment

AC 90° angular head



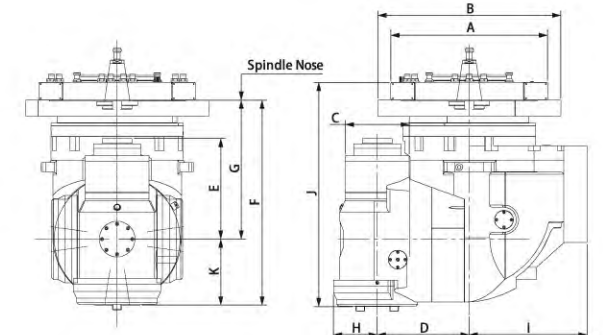
Item	AC 90° angular head	
	G2	G3
Max. speed	3,000rpm	5,000rpm
Max. power	26kW	
Tool clamping	Auto hydraulic clamping	
Head clamping	Auto hydraulic clamping	
C-axis indexing	Auto 1°/5°	
Machining coolant	External nozzle	External nozzle
Coolant Through Spindle(opt.)	20 bar. / 70 bar.	
A	$\Phi 436$	$\Phi 435$
B	$\Phi 436$	$\Phi 512$
C	300	300
D	100	106
E	$\Phi 200$	$\Phi 200$
F	259	259
G	515.7	539
H	212	212
J	$\Phi 352$	$\Phi 360$



AC 2-axis head



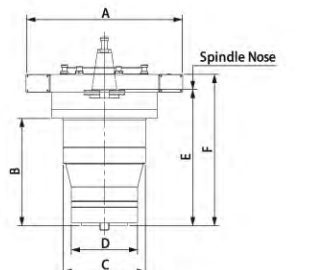
Item	AC 2-axis head	
	G2	G3
Max. speed	3,000rpm	4,000rpm
Max. power	26kW	
Tool clamping	Auto hydraulic clamping	
Head clamping	Auto hydraulic clamping	
C-axis indexing	Auto 1°/5°	Auto 1°/5°
B-axis indexing	Auto 5°	Auto 1°/5°
Machining coolant	External nozzle	Spindle ring cutting coolant system
Coolant Through Spindle(opt.)	20 bar. / 70 bar.	
A	$\Phi 436$	$\Phi 435$
B	$\Phi 436$	$\Phi 512$
C	$\Phi 200$	$\Phi 178$
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

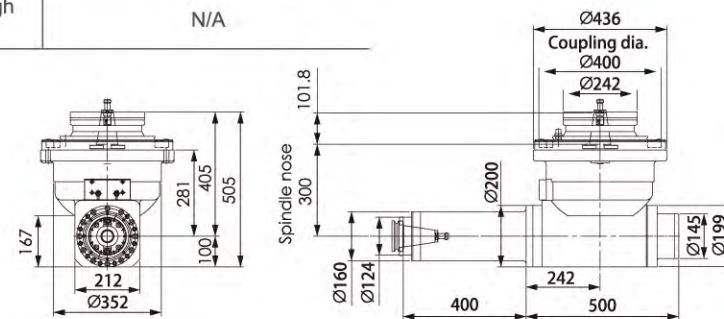


Powerful and Precision Boring Head Attachment

400mm AC 90° spindle extension head



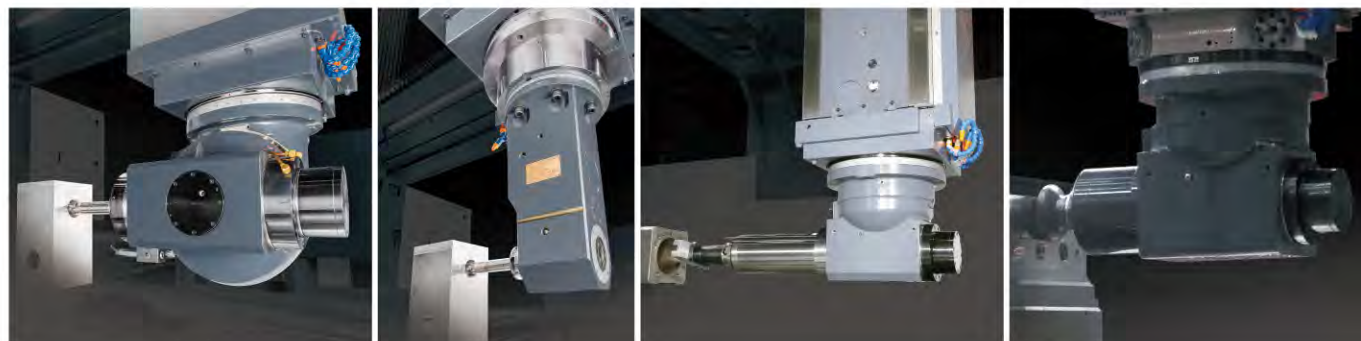
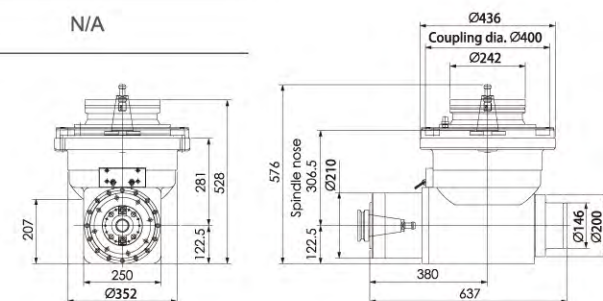
Item	400mm AC 90° spindle extension head
Max. speed	2000 rpm
Max. power	26 kW
Tool clamping	Manual hydraulic clamping
Head clamping	Auto hydraulic clamping
C-axis indexing	(1°) / 5°
Machining coolant	External nozzle
Coolant Through Spindle(opt.)	N/A



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

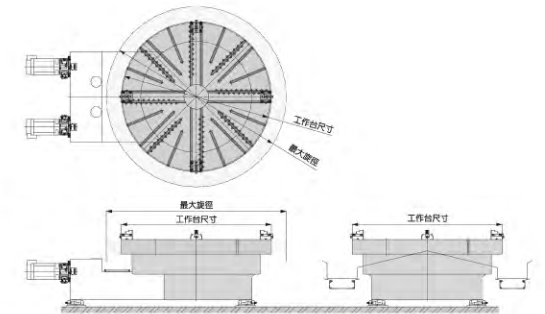


Turning Solutions

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

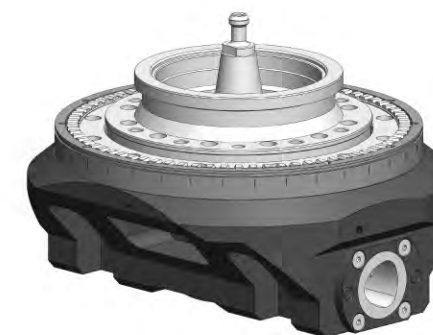


High Speed Type

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



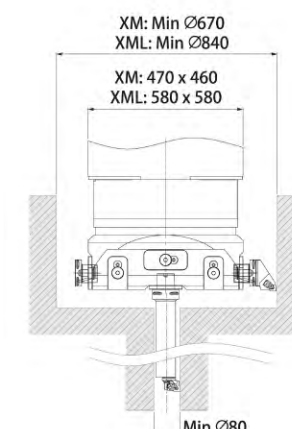
Triple Side Turning Head



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



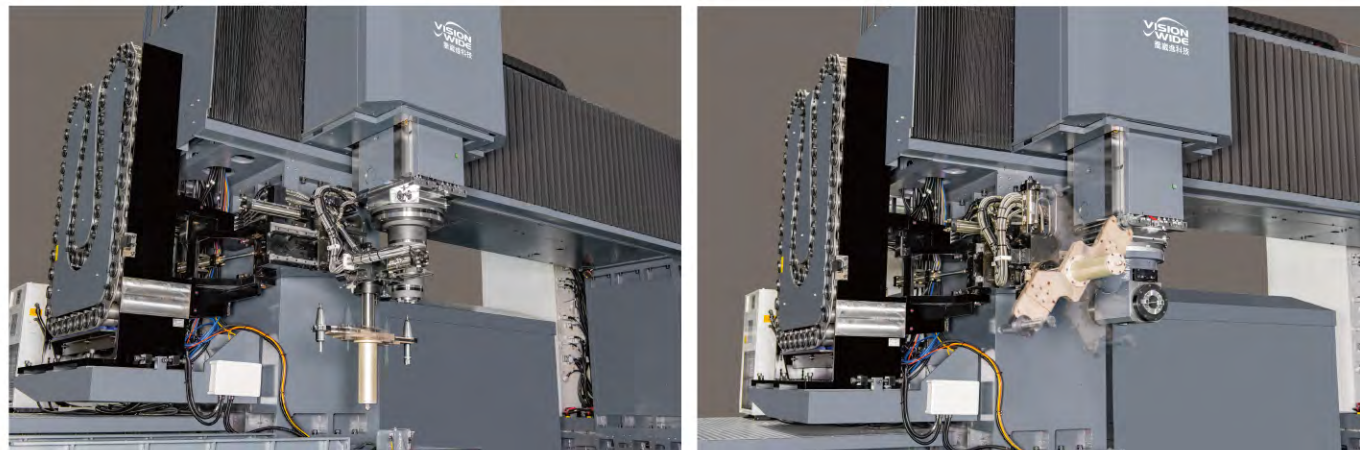
3-side turning application



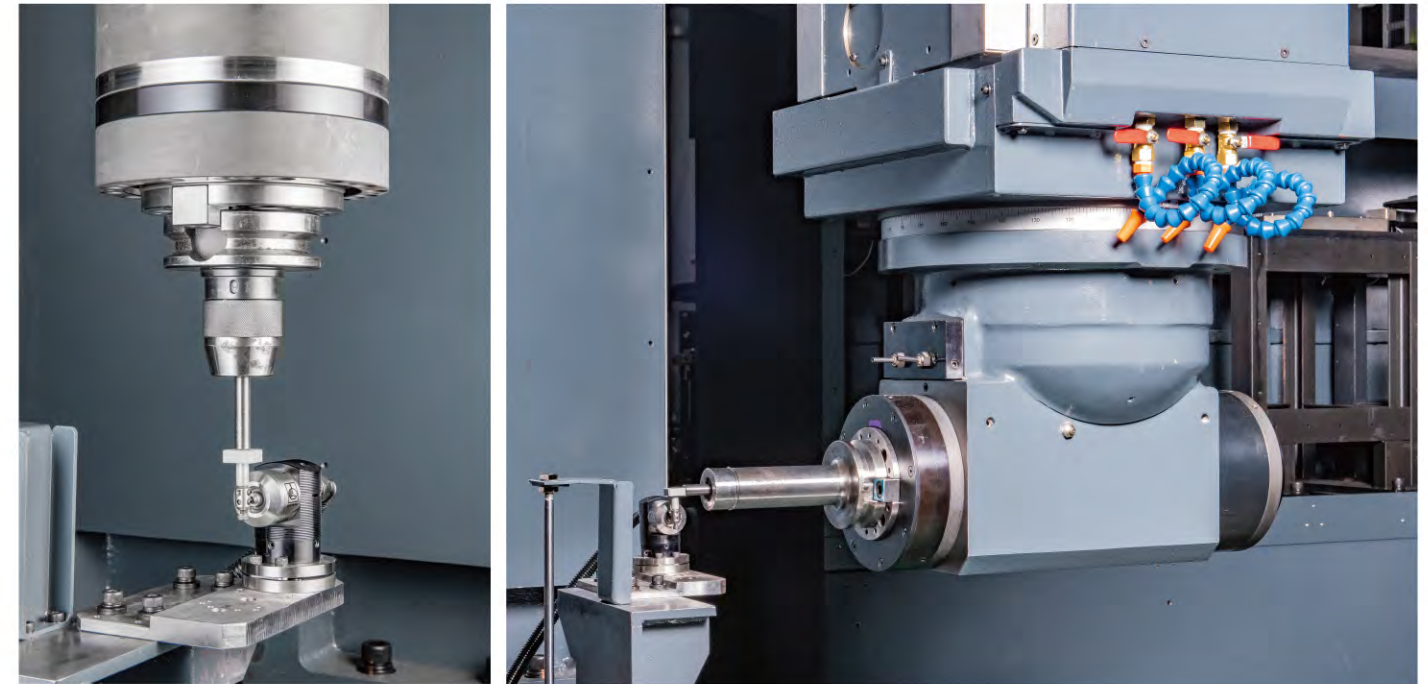
Deep hole turning applications

XM Best Use of Space

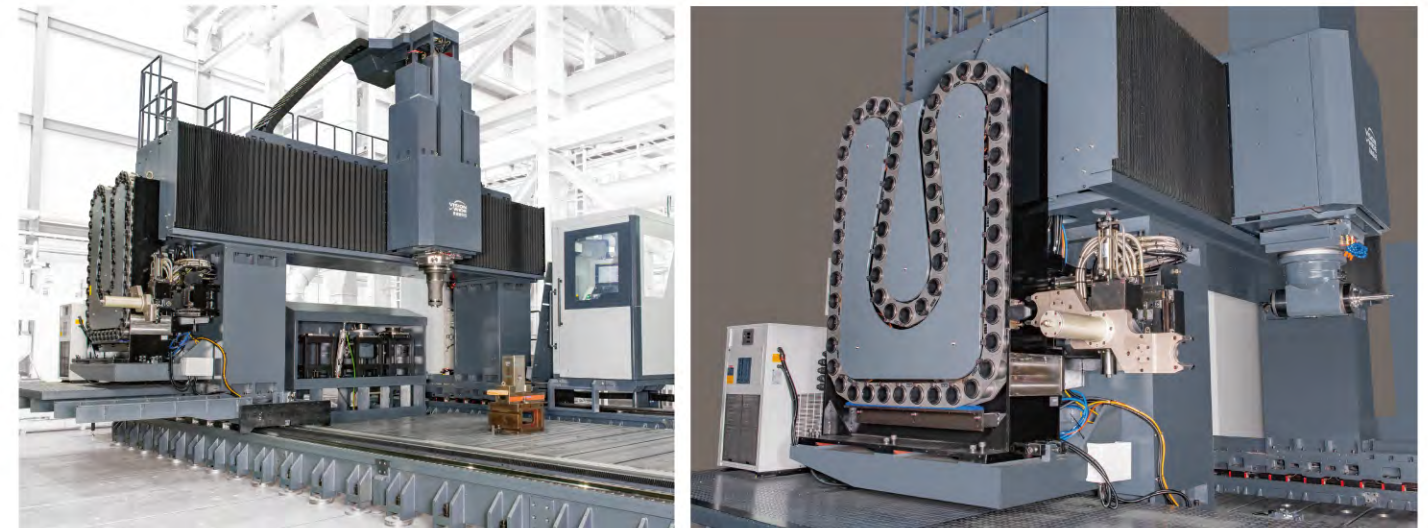
- Moving column type machines use 40 % less space than moving table type machines.
- The tool magazine is located at left side of machine. It move with column, the machine can do tool change at any X position. Shorten the non-machining time.



- 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.



Friendly Operating Interface

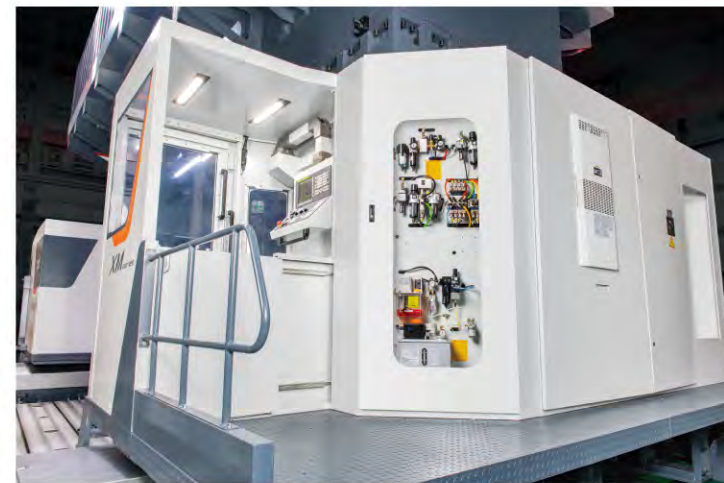
Wide and convenient work space for set up

- 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

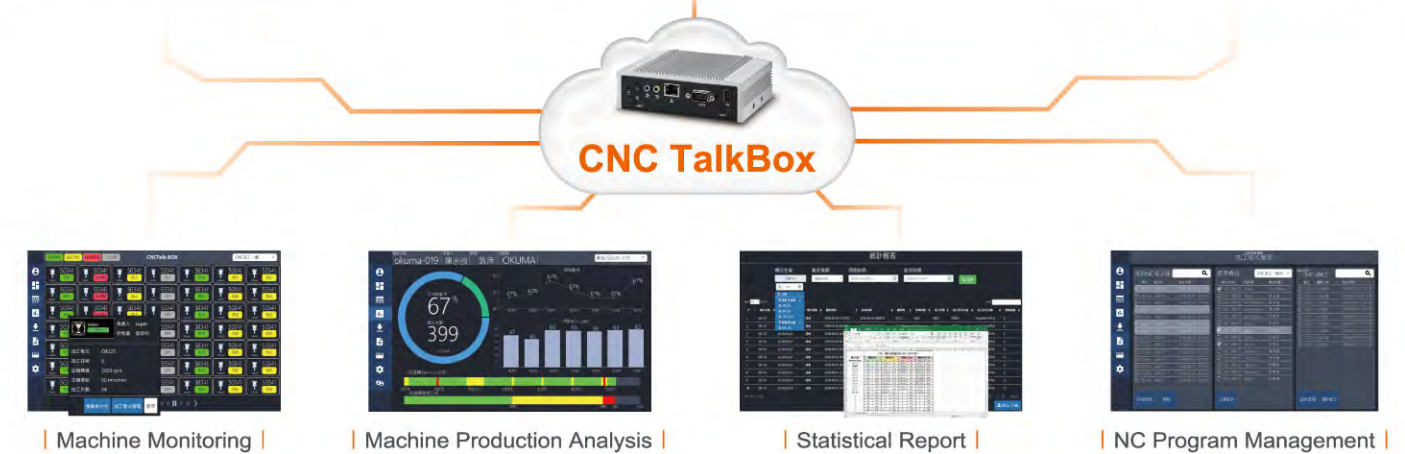
User Management



Machine Management



Production History Monitoring



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

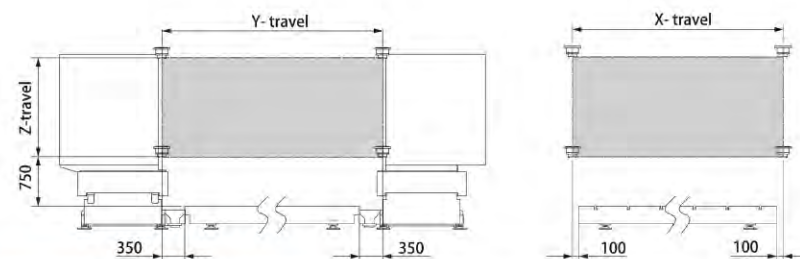
Complete data collection can make better decisions for process, dispatch, tool and material management.

Working Range

Vertical

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
			1,000
XM-37	8,200(+1m) ~60,200	3,700	1,200
			1,400
			1,000
			1,200
XM-42	8,200(+1m) ~60,200	4,200	1,000
			1,200
			1,400
			1,000

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
			1,500
XML-42	8,200(+1m) ~60,200	4,200	1,500
			2,000
			2,200
			1,500
XML-47	8,200(+1m) ~60,200	5,200	1,500
			2,000
			2,200
			1,500
XML-57	8,200(+1m) ~60,200	5,700	2,000
			2,200
			1,500
			2,200



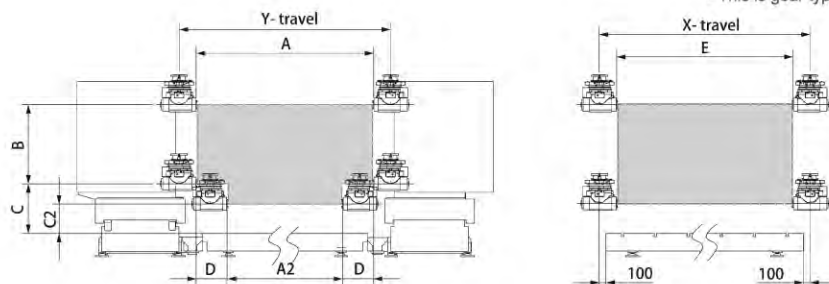
AC 90° head

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	2,682	1,606	795	655	450	538	X-518
				1,400	2,682	1,606	795	655	450	538	X-518
				1,000	2,682	1,606	800	655	450	538	X-518
XM-37	G2	8,200(+1m) ~60,200	3,700	1,200	3,182	2,153	800	650	450	515	X-518
				1,400	3,182	2,106	795	655	450	538	X-518
				1,000	3,182	2,106	800	655	450	538	X-518
				1,200	3,182	2,106	795	655	450	538	X-518
XM-42	G2	8,200(+1m) ~60,200	4,200	1,200	3,682	2,653	800	650	450	515	X-518
				1,400	3,682	2,606	795	655	450	538	X-518
				1,000	3,682	2,606	800	655	450	538	X-518
				1,200	3,682	2,606	795	655	450	538	X-518

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

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	3,182	2,242	1,195	755	450	470	X-518
				2,200	3,182	2,242	1,195	755	450	470	X-518
				1,500	3,182	2,242	1,195	755	450	470	X-518
XML-42	G2	8,200(+1m) ~60,200	4,200	2,000	3,682	2,789	1,200	750	450	447	X-518
				2,200	3,682	2,742	1,195	755	450	470	X-518
				1,500	3,682	2,742	1,195	755	450	470	X-518
				2,000	3,682	2,742	1,195	755	450	470	X-518
XML-47	G2	8,200(+1m) ~60,200	4,700	2,000	4,182	3,289	1,200	750	450	447	X-518
				2,200	4,182	3,242	1,195	755	450	470	X-518
				1,500	4,182	3,242	1,195	755	450	470	X-518
				2,000	4,182	3,242	1,195	755	450	470	X-518
XML-57	G2	8,200(+1m) ~60,200	5,700	2,000	5,182	4,289	1,200	750	450	447	X-518
				2,200	5,182	4,242	1,195	755	450	470	X-518
				1,500	5,182	4,242	1,195	755	450	470	X-518
				2,000	5,182	4,242	1,195	755	450	470	X-518

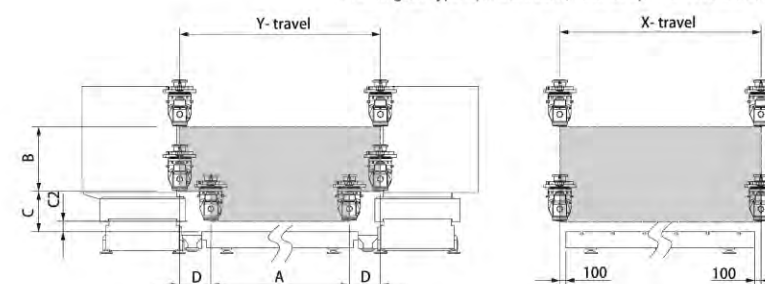
* This is gear type spindle travel, Built-in spindle is B-40mm



AC 2-axis head (Vertical)

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	2,100	641	550	191	550
				1,400	2,100	641	550	191	550
				1,000	2,100	641	550	191	550
XM-37	G2	8,200(+1m) ~60,200	3,700	1,200	2,072	825	550	175	564
				1,400	2,072	825	550	175	564
				1,000	2,072	825	550	175	564
				1,200	2,072	825	550	175	564
XM-42	G2	8,200(+1m) ~60,200	4,200	1,000	2,600	841	550	191	550
				1,200	2,600	841	550	191	550
				1,400	2,600	841	550	191	550
				1,000	2,600	841	550	191	550
XM-47	G2	8,200(+1m) ~60,200	4,700	1,200	2,572	825	550	175	564
				1,400	2,572	825	550	175	564
				1,000	2,572	825	550	175	564
				1,200	2,572	825	550	175	564
XM-57	G2	8,200(+1m) ~60,200	5,700	1,000	3,100	841	550	191	550
				1,200	3,100	841	550	191	550
				1,400	3,100	841	550	191	550
				1,000	3,100	841	550	191	550

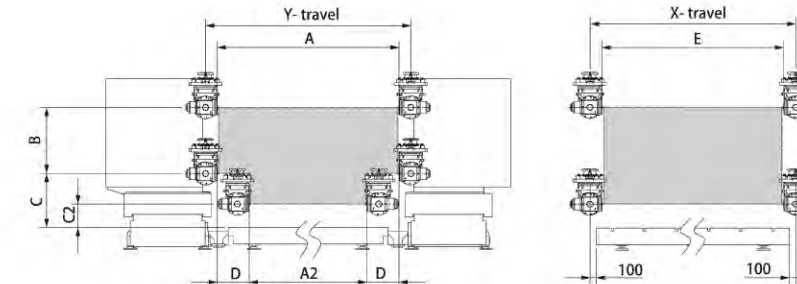
* This is gear type spindle travel, Built-in spindle is B-40mm



AC 2-axis head (Horizontal)

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	2,682	1,581	641	809	450	550	X-518
				1,400	2,682	1,581	641	809	450	550	X-518
				1,000	2,682	1,581	641	809	450	550	X-518
XM-37	G2	8,200(+1m) ~60,200	3,700	1,200	3,182	2,081	641	809	450	550	X-518
				1,400	3,182	2,081	641	809	450	550	X-518
				1,000	3,182	2,081	641	809	450	550	X-518
				1,200	3,182	2,081	641	809	450	550	X-518
XM-42	G2	8,200(+1m) ~60,200	4,200	1,200	3,682	2,581	641	809	450	550	X-518
				1,400	3,682	2,581	641	809	450	550	X-518
				1,000	3,682	2,581	641	809	450	550	X-518
				1,200	3,682	2,581	641	809	450	550	X-518

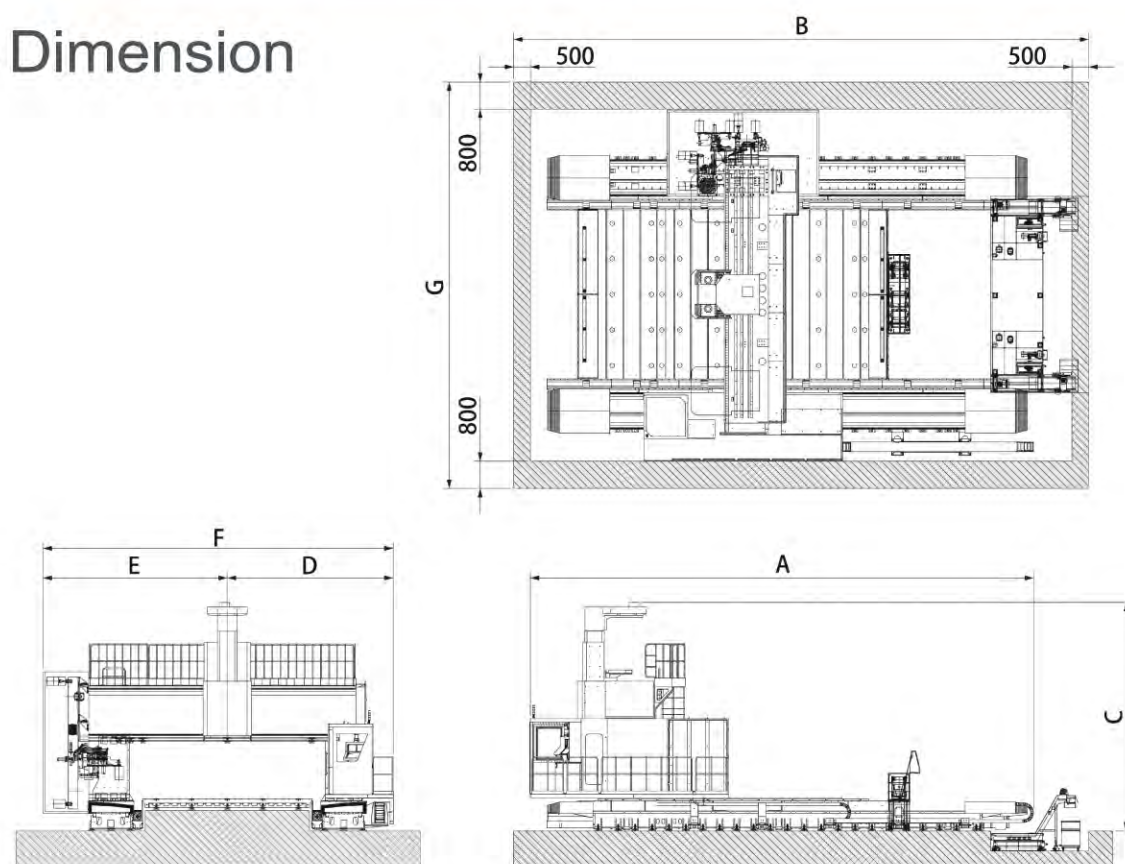
* This is gear type spindle travel, Built-in spindle is B-40mm



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	3,181	1,217	1,541	909	450	482	X-518
				2,200	3,181	1,217	1,741	909	450	482	X-518
				1,500	3,181	1,217	1,041	909	450	482	X-518
XML-42	G2	8,200(+1m) ~60,200	4,200	2,000	3,681	2,217	1,541	909	450	482	X-518
				2,200	3,681	2,217	1,741	909	450	482	X-518
				1,500	3,681	2,217	1,041	909	450	482	X-518
				2,000	3,681	2,217	1,541	909	450	482	X-518
XML-47	G2	8,200(+1m) ~60,200	4,700	2,000	4,181	3,217	1,541	909	450	482	X-518
				2,200	4,181	3,217	1,741	909	450	482	X-518
				1,500	4,181	3,217	1,041	909	450	482	X-518
				2,000	4,181	3,217	1,541	909	450	482	X-518
XML-57	G2	8,200(+1m) ~60,200	5,700	2,000	5,181	4,217	1,541	909	450	482	X-518
				2,200	5,181	4,217	1,741	909	450	482	X-518
				1,500	5,181	4,217	1,041	909	450	482	X-518
				2,000	5,181	4,217	1,541	909	450	482	X-518

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

Machine Dimension



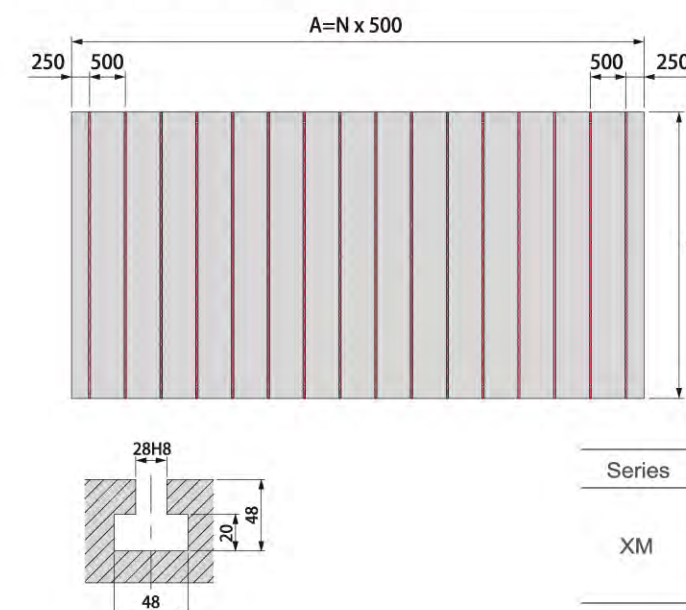
XM series

Model	X axis travel	Y axis travel	Z axis travel	A	B	C	D	E	F	Unit:mm 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

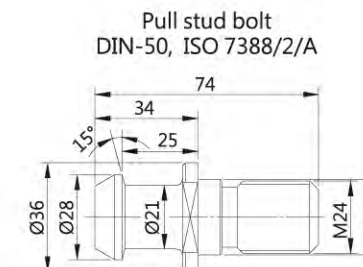
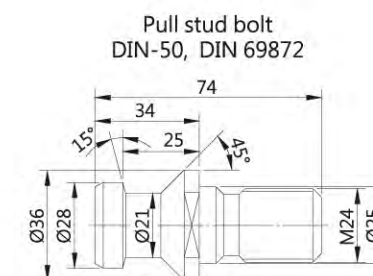
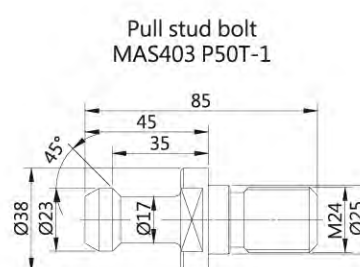
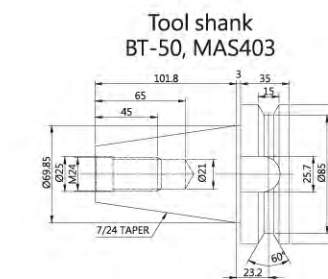
Model	X axis travel	Y axis travel	Z axis travel	A	B	C	D	E	F	Unit:mm G
XML-37	8,200(+1m)~60,200	3,700	1,500	X+6,670	X+8,800	6,742	3,900	4,445	8,345	10,000
			2,000			7,742				
			2,200			8,142				
XML-42	8,200(+1m)~60,200	4,200	1,500	X+6,670	X+8,800	6,742	4,150	4,695	8,845	10,500
			2,000			7,742				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



Series	Model	A	B	N (pcs.)	Unit:mm
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



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		
Distance between columns (port width)		mm	3,100	3,600	4,100
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:4.5, Y:7 , Z:5.5		
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 accessories and function

- Fanuc 0iMF CNC
- 4,000rpm 2-step gear type spindle
- Spindle and Gear box cooling system
- Z axis travel
XM: 1,000mm
XML: 1,500mm
- X axis dual linear scale / Z axis linear scale
- Z-axis Enclosed box ram type (XML series only)
- Y-axis ball screw support device
- ATC 32T
- Centralized auto lubrication system
- Independent lubrication oil collector
- Air blast through spindle
- Wash gun and pneumatic interface
- Cutting fluid cooling system
- Four piece sheet metal guard
- Wireless handwheel
- Operation Room
- Screw type chip conveyor on table sides
- Caterpillar type chip conveyor
- Air conditioning for electrical cabinet
- Working lamp
- Operation cycle finish and alarm light
- Footswitch for tool clamping
- RJ45 interface
- XYZaxis travel hard limits protection
- Auto power off function
- Spindle cutting load software protection
- Remote monitoring software-standard (CNC TalkBox)
- Vision Wide FX graphical user interface (FANUC)
- Foundation pads and bolts kits
- Adjustment tool and tool kits
- Technical manuals

XML Specification

Model		Unit	XML-37	XML-42	XML-47	XML-57
Travel						
X axis			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			
Distance between columns (port width)		mm	3,800	4,300	4,800	5,800
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:7; Z:5.5			
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	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 accessories and function

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