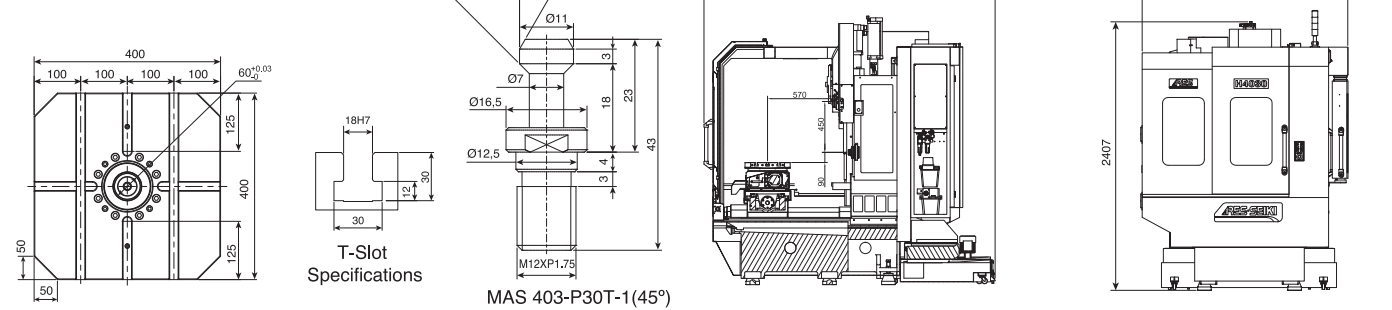


H Series H4030/H4040/H4040P/HM4040/HM4040P

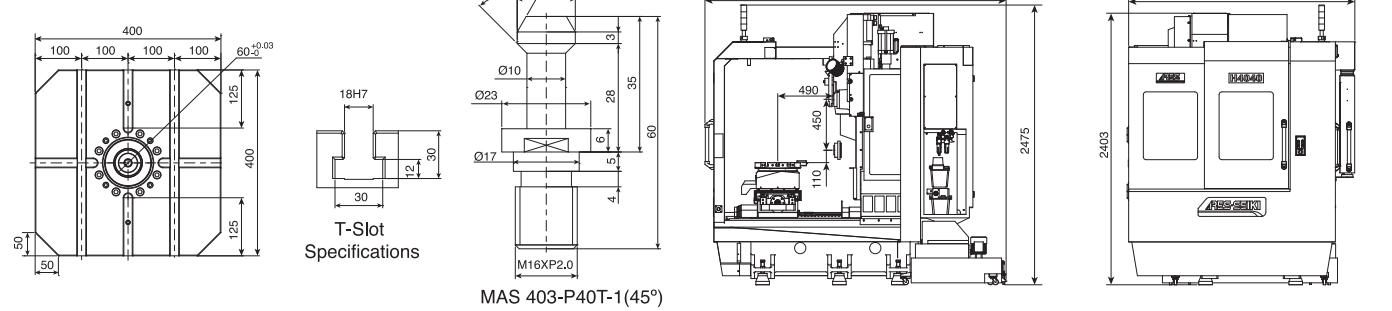
MACHINE DIMENSIONS

Unit : mm

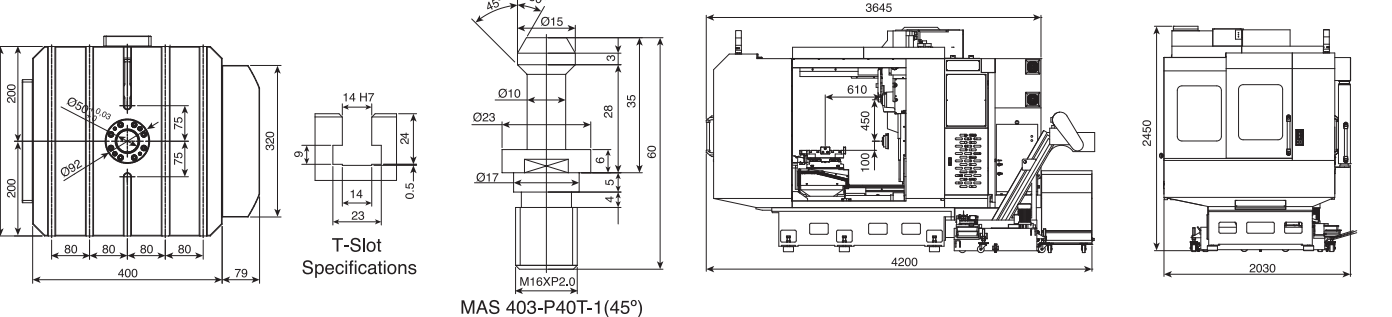
H4030



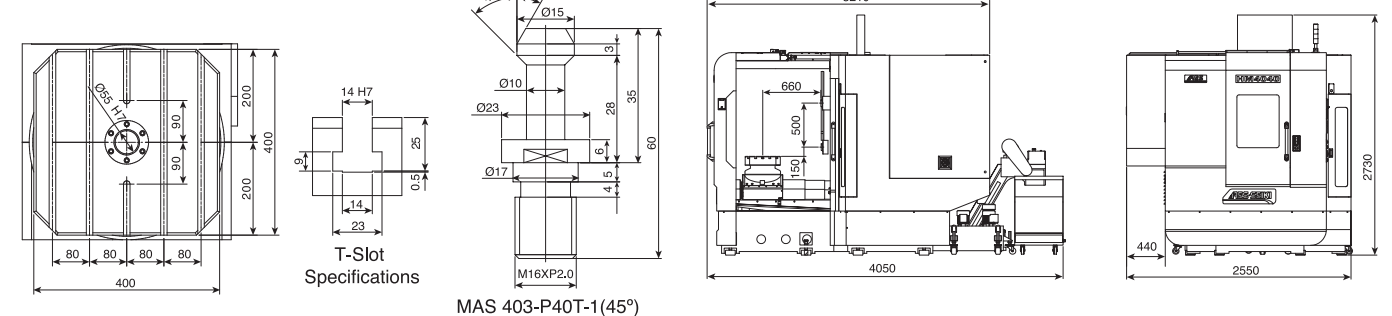
H4040



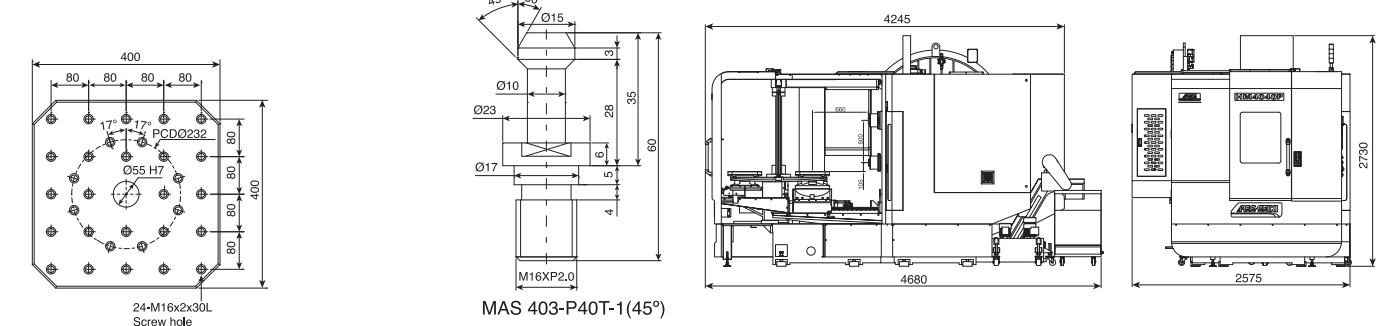
H4040P



HM4040



HM4040P



★ The company reserves the right to modify the specifications / design, subject to change without further notice.
Actual specifications, based on order content.

H Series



STANDARD ACCESSORIES

- Auto. lubrication system
- Tool coolant system
- Direc drive spindle system
- Auto chip purging system
- Spindle air blow system
- SP oil cooler (HM4040 / HM4040P)
- 3 axes with roller guide
- Full enclosed splash guard (Top Cover)
- Chip conveyor with cart (H4040P / HM4040 / HM4040P)
- External handwheel
- LED work light
- Triple-color alarm light
- TFT LCD
- Toolbox and tools
- Leveling bolts and pads

OPTIONAL ACCESSORIES

- Spindle speed
BT30: 12000 / 15000 / 20000 / 24000 rpm
BT40: 12000 / 15000 rpm
- Fixture interface of pneumatic or hydraulic source apparatus (2~8 ports at one side of table) (HM4040P)
- Coolant through spindle (CTS)
- Transformer / stabilizer
- Chip conveyor with cart (H4030 / H4040)
- 10.4" TFT LCD (H4030 / H4040 / H4040P)
- 15" TFT LCD (HM4040 / HM4040P)
- CTS filtration
- Oil / water partition
- Oil mist collector
- Water gun
- Air gun
- Workpiece air blow system
- CE



The rotary operation box is easy for operating.



Water tank with big volume and chip conveyer.
(H4040P / HM4040 / HM4040P)



Water tank with big volume and chip-collection plate for prevent splash. (H4030 / H4040)

ARES SEIKI

CE

ISO 9001

BIG-PLUS

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ARES: HIE-02-M0R0M-1000

因為專注 所以獨步
EXCELLENCE THROUGH EXPERTISE



H4030/H4040/H4040P
HM4040/HM4040P

Horizontal CNC Machining Center

ARES SEIKI

MACHINE SPECIFICATIONS

	Unit	H4030	H4040	H4040P	HM4040	HM4040P
Table size	mm	400 x 400	400 x 400	400 x 400 x 2 PCS	400 x 400	400 x 400 x 2 PCS
Max. table load	kg	200	200	300	400	400
Max. workpiece dimension (ØxHeight)	mm	Ø480 x 540	Ø480 x 540	Ø560 x 700	Ø560 x 700	Ø560 x 700
Min. indexing angle of table	deg.	0.001	0.001	0.001	0.001	0.001
Cumulative indexing precision of table	sec.	20	20	20	10	10
Table repeatability accuracy	sec.	4	4	4	4	4
Drive system for table exchange		-	-	Cam type	-	Servo motor
Max. rotation diameter of APC	mm	-	-	1370	-	1370
X, Y, Z axis travel	mm	400 / 450 / 380	400 / 450 / 380	500 x 450 x 450	560 x 500 x 560	560 / 500 / 560
Spindle center to surface of table	mm	90~540	110~560	100~550	105~605	105~605
Spindle nose to table center	mm	190~570	110~490	160~610	100~660	100~660
3 axes bidirectional accuracy of positioning	mm	VDI 3441				
3 axes bidirectional repeatability repeat positioning	mm	VDI 3441				
Spindle taper		BT30		BT40		
Pull stud		MAS403 P30T-1(45°)		MAS403 P40T-1(45°)		
Spindle driving		Direct				
Spindle motor	Mitsubishi	Kw	5.5 / 3.7	7.5 / 5.5	7.5 / 5.5	15 / 11
	Fanuc	Kw	5.5 / 3.7	7.5 / 5.5	7.5 / 5.5	15 / 11
	Siemens	Kw	5.6 / 3.7	10.5 / 7.0	10.5 / 7.0	16.5 / 11
X drive motor	Mitsubishi	Kw	1.5	1.5	1.5	4.5
	Fanuc	Kw	1.6	1.6	1.6	4.0
	Siemens	Kw	2.3	2.3	2.3	4.9
Y drive motor	Mitsubishi	Kw	3.0	3.0	3.0	4.5
	Fanuc	Kw	3.0	3.0	3.0	4.0
	Siemens	Kw	3.3	4.8	4.8	4.9
Z drive motor	Mitsubishi	Kw	1.5	1.5	2.2	4.5
	Fanuc	Kw	1.6	1.6	1.6	4.0
	Siemens	Kw	2.3	2.3	2.3	4.9
B drive motor	Mitsubishi	Kw	1.5	1.5	2.2	2.2
	Fanuc	Kw	1.6	1.6	1.6	3.0
	Siemens	Kw	2.3	2.3	2.3	2.3
Spindle speed	rpm	10000	8000	8000	10000	10000
B axis speed	rpm	16.6	16.6	27.7	33.3	33.3
X / Y / Z axis rapid traverse	m/min	48 / 60 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48
Tools capacity	pcs	24+1	30+1	30+1	40+1	60+1
Max. tool weight	kg	4	5	5	7	7
Max. tool length	mm	200	250	250	300	300
Max. tool diameter (alternate pocket empty)	mm	65 (80)	78 (120)	78 (120)	75 (150)	75 (150)
ATC time (T-T)	sec.	2.5	3.0	2.7	4.0	4.0
Tool change type		Arm type				
Tank volume	L	200	200	200	380	380
Coolant pump rate	W	600	600	600	600	600
Flow rate	l/min	136	136	136	136	136
Chip flush pump rate	W	136	600	600	930	1320
Flow rate	l/min	136	136	250	250	250
Net weight	kg	3700	3850	5700	8150	10300
Floor space	mm	1835 x 2593 x 2407	2000 x 2670 x 2475	2030 x 4200 x 2450	2550 x 4050 x 2730	2575 x 4680 x 2730

CONTROLLER SPECIFICATIONS

O: Standard OP: Option

	Mitsubishi	Fanuc	Siemens		Mitsubishi	Fanuc	Siemens
Max. simultaneous axis	4	4	4	Multi-language display	O	O	O
Standard controlled axis	4	4	4	ABS servo motor	O	O	O
Program storage length	512 kb	512 kb	5 M	Tool length compensation	O	O	O
Workpiece coordinates	54	54	100	Tool radius compensation	O	O	O
Max. variable number	700	600	300	On-screen drafting	O	O	O
Tool offset pairs	400	400	128 / 256	High speed data server & ethernet	O	OP	O
Conversational programming	NAVI	Manual guide Oi	Program guide shopmill (OP)	High speed & high accuracy machining control mode	G05 P10000	G05.1 Q1	CYCLE832
				Interface	RS232 / RJ45		RJ45
Monitor	8.4" TFT LCD	10.4" TFT LCD	10.4" TFT LCD	Memory card input / output	O	O	O
	10.4" TFT LCD (HM4040 / HM4040P)			USB input / output	O	O	O

※ Tool change time supplied with Mitsubishi controller and standard 60Hz power.
For electrical requirements other than this standard, please contact one of our personnel.

H4030/H4040

Horizontal CNC Machining Center

H4040P

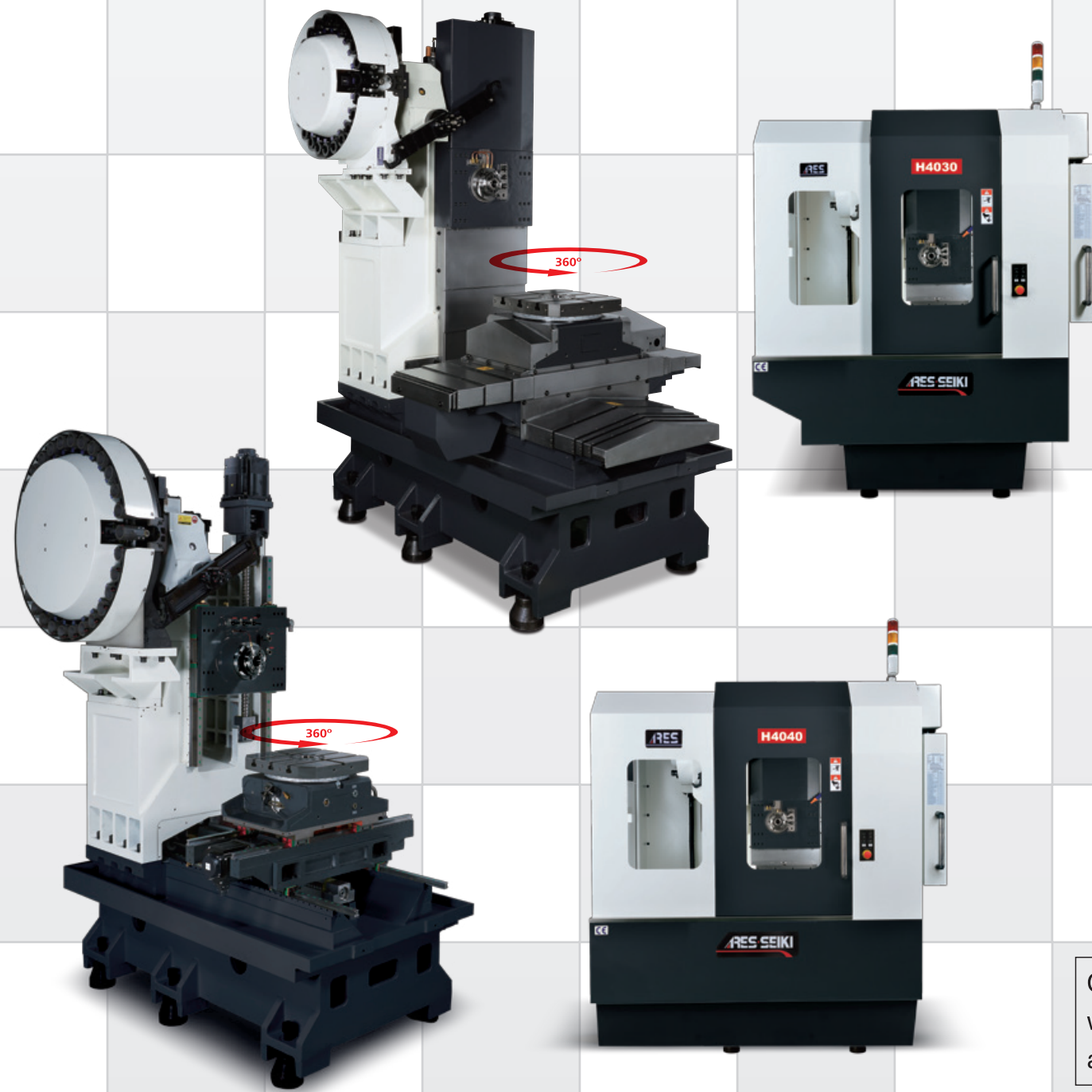
Horizontal CNC Machining Center

HM4040

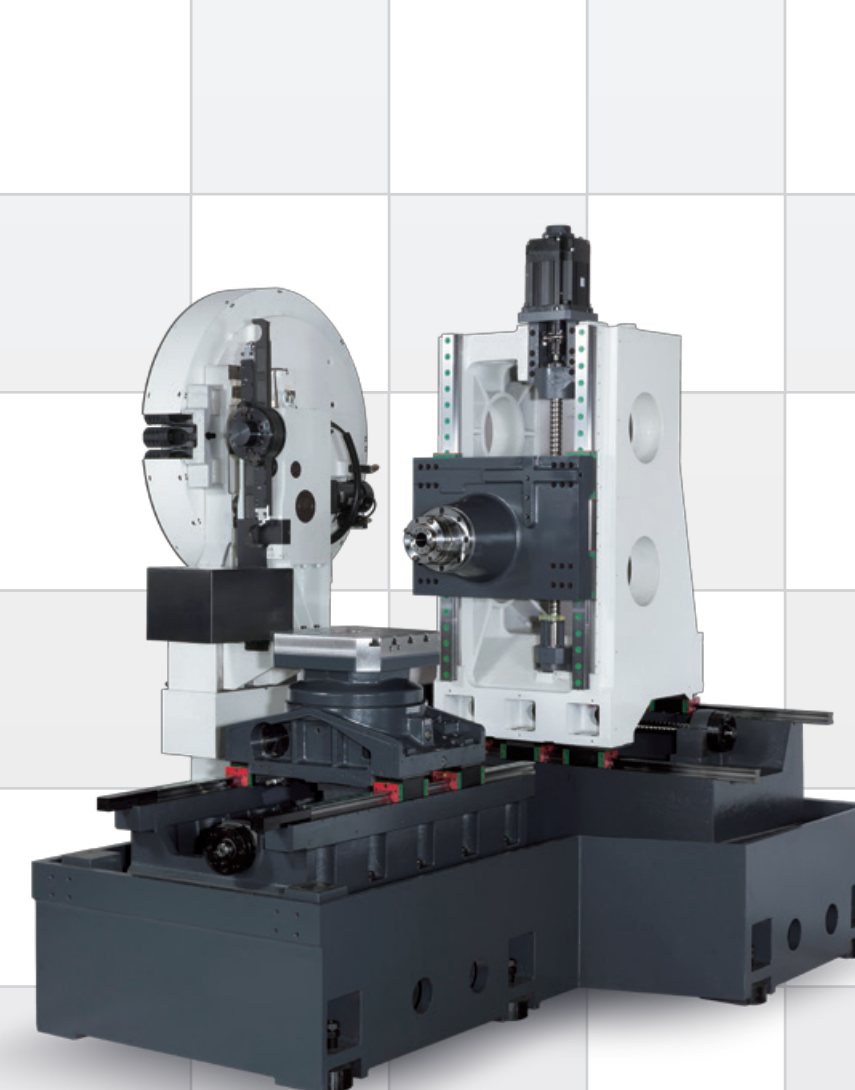
Horizontal CNC Machining Center

HM4040P

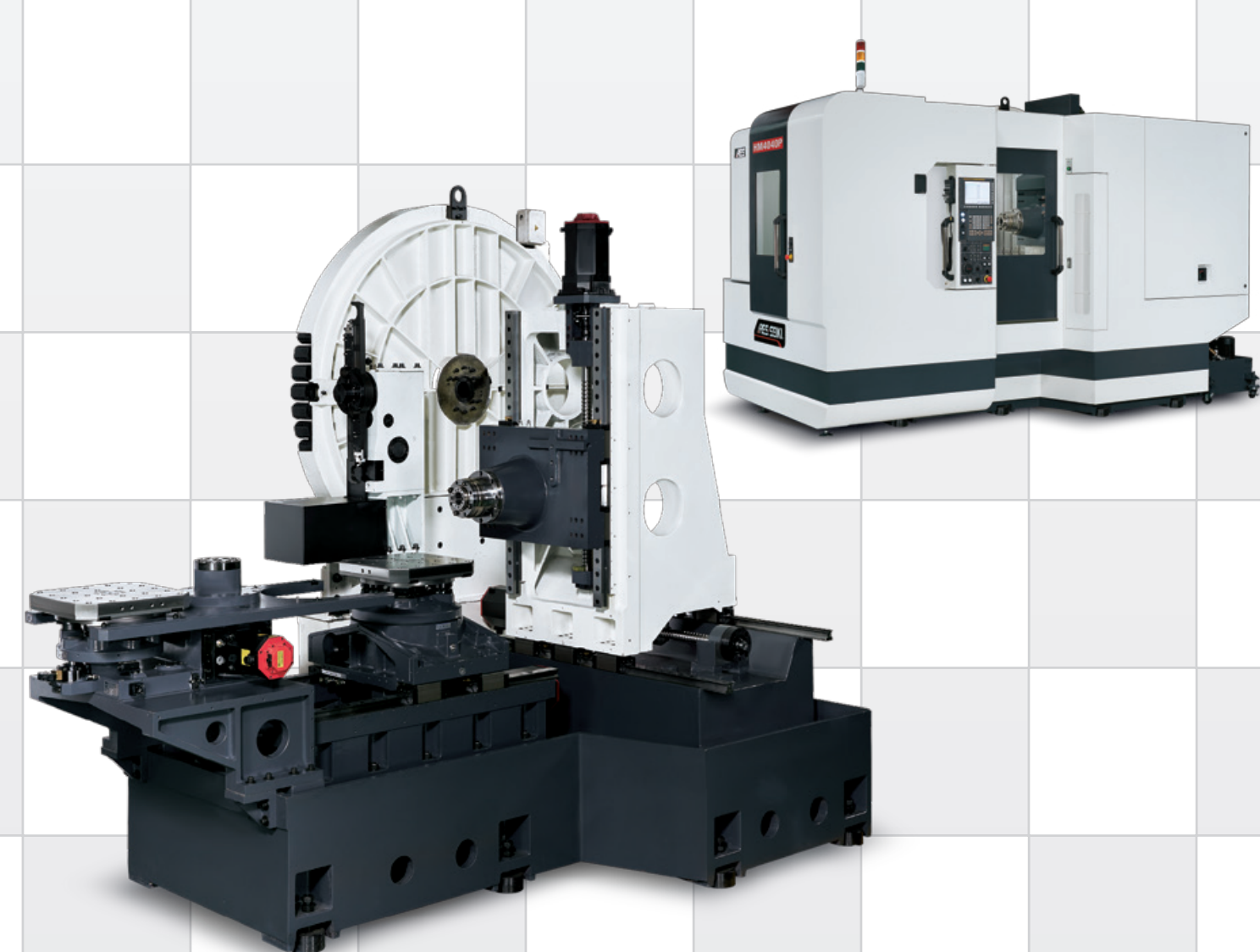
Horizontal CNC Machining Center



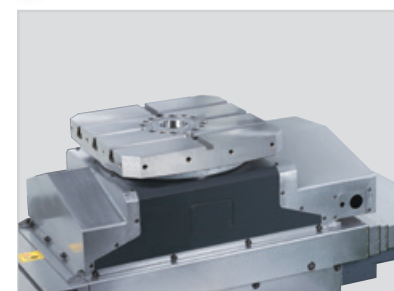
Compact and rigid mechanism with 3-axes roll type of linear guides which is suitable to produce the multifaceted parts of 3C products, automobile industry, motorcycles, bicycles, sanitary materials, etc.



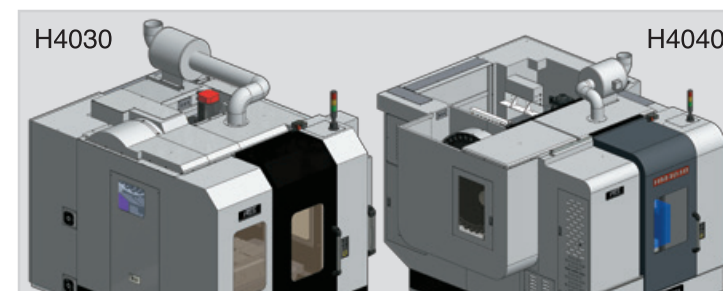
One piece of T-shaped cast iron base with heavy loading of 3-axes roller type linear guides which provides superior rigidity and stability.



24 tools cam type ATC provides stable and reliable tool change system.



360° rotary table B-axis is driven by servo motor and max. speed is 16.6rpm.



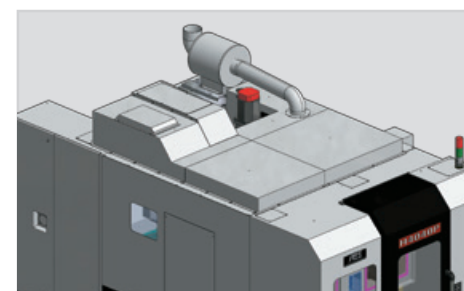
Full enclosed splash guard (STD) & Oil mist collector (OP).



Large span of 3-axes roller type of linear guides to strengthen machining performance.



Cam type mechanism APC supplies fast and stable pallet change system.



Full enclosed splash guard (STD) & Oil mist collector (OP).



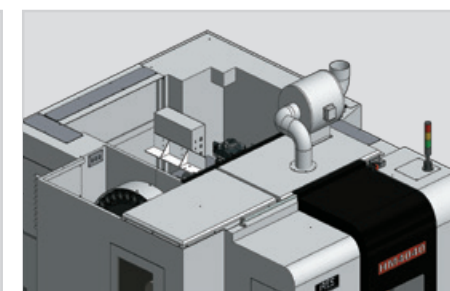
360° rotary table B-axis offers high accuracy and rigidity.



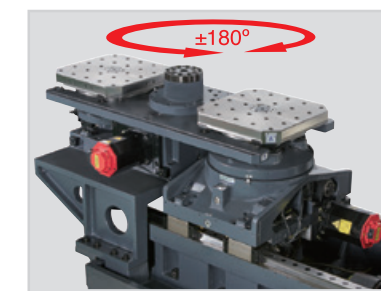
Dynamic and precision direct-drive spindle.



40 tools cam type ATC provides stable and reliable tool change system.



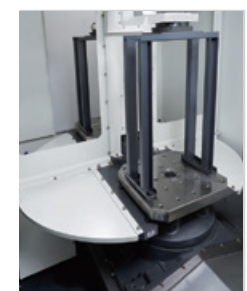
Full enclosed splash guard (STD) & Oil mist collector (OP)



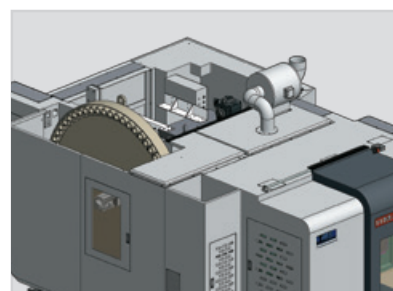
Adopted servo-driven + hydraulic system of exchange mechanism design which provides rapid and stable pallet change.



60 tools cam type ATC provides stable and reliable tool change system.



Fixture interface of pneumatic or hydraulic source apparatus (2~8 ports at one side of table) (OP)



Full enclosed splash guard (STD) & Oil mist collector (OP)