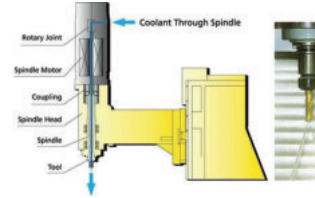


CNC Drilling & Tapping Center

- Spindle speed 60 ~ 10,000 rpm (Standard)
- Spindle speed
OP : 12,000 / 15,000 / 20,000 rpm
OP : 24,000 rpm (Mitsubishi)
OP : 30,000 rpm
- Rigid tapping : 4,000 rpm
- Spindle nose taper BT30 (STD) / BBT30 (OP)
- 3 axes rapid traverse X, Y : 48 m/min, Z: 60 m/min
- Fully enclosed (Heat insulated) electric cabinet.
- High speed mechanical ATC system T-T : 1.6 sec
- Directly coupled spindle drive system



COOLANT THROUGH SPINDLE



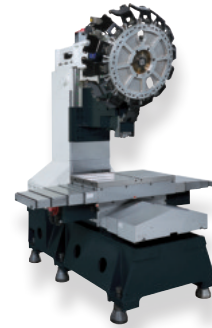
R4530 / R5630



R5030



R5140



HIGH RIGIDITY

Machine Structure : Being manufactured from high rigidity cast iron, the machine structure is computer analyzed for maximum rigidity user, fast travel and heavy duty machining conditions.

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION	UNIT	R 4530	R 5030	R 5140	R 5630	
Table size	mm	500 x 320	550 x 320	600 x 410	650 x 410	
Max. Table load	kg	200	200	250	200	
X, Y, Z, axis travel	mm	450x300x300	500x300x300	510x400x460	560x400x300	
Table to spindle nose	mm	170~470	170~470	140 ~ 600	180 ~ 480	
Spindle taper		BT30	BT30	BT40	BT30	
Pull stud		MAS403 P30T-1(45°)				
Spindle motor	Mitsubishi	kW	5.5 / 3.7	5.5 / 3.7	7.5 / 5.5	5.5 / 3.7
	Fanuc	kW	3.7 / 2.2	3.7 / 2.2	7.5 / 5.5	3.7 / 2.2
	Siemens	kW	5.6 / 3.7	5.5 / 3.7		5.5 / 3.7
X drive motor	Mitsubishi	kW	1.0	1.0	1.5	1.5
	Fanuc	kW	1.6	1.6	1.6	1.6
	Siemens	kW	2.3	2.3		2.3
Y drive motor	Mitsubishi	kW	1.0	1.0	1.5	1.5
	Fanuc	kW	1.6	1.6	1.6	1.6
	Siemens	kW	2.3	2.3		2.3
Z drive motor	Mitsubishi	kW	2.0	2.0	3.0	3.0
	Fanuc	kW	3.0	3.0	3.0	3.0
	Siemens	kW	3.3	3.3		3.3
Spindle speeds	rpm	10000	10000	8000	10000	
X, Y, Z, axis rapid traverse	m/min	48 / 48 / 60	48 / 48 / 60	36 / 36 / 36	48 / 48 / 60	
Tool capacity	no.	12	14 / 20 (OP)	12	14 / 20 (OP)	
Max. tool weight	kg	3	3	3	3	
Max. tool length	mm	200	200	250	200	
ATC time (T-T)	sec	M1.6 / F2.5	M1.6 / F2.5	M2.2 / F3.2	M1.7 / F2.6	
Net weight	kg	2100	2200	3500	2600	
Floor space	mm	1200x2230x2480	1500x2230x2480	1560x2670x2825	1590x2640x2500	

CONTROLLER SPECIFICATIONS	Mitsubishi	FANUC
Max. controlled axis	5	4
Max. simultaneous axis	4	4
Standard controlled axis	3	3
Program storage length	512kb	512kb
Work piece coordinates	54	54
Max. variable number	700	600
Tool offset pairs	400	400
Conversation programming	NAVI	Manual guide 0i
Monitor	8.4" TFT LCD	
Multi-language display	O	O
ABS servo motor	O	O
Tool length compensation	O	O
Tool path compensation	O	O
On-screen drafting	O	O
High speed data serve & Ethernet	O	OP
High speed & high accuracy machining control mode	G05.1 Q1	
Interface	RS232 / RJ45	
Memory card input / output	O	O

O : Standard X : None OP : Option



R6030 / R6040



R12030 / R12040

HIGH SPEED HIGH EFFICIENCY MACHINERY

- HIGH SPEED SPINDLE
- HIGH RESPONSE SERVO SYSTEM
- HIGH SPEED 3 AXES RAPID TRAVERSE

- Spindle speed 60-8,000 rpm (STD)
- Spindle speed 60-12,000 rpm (OPT)
- Rigid tapping 3,000 rpm
- Spindle nose taper BT 40
- 3 axes rapid traverse X, Y, Z : 36, 36, 36 m/min
- Dual electric cases (Heat insulated)
- High speed mechanical ATC system T-T : 2.2 sec (R 600) / 2.2 sec (R 5140)

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION		UNIT	R 6030	R 6040	R 12030	R 12040
Table size		mm	700 x 410	700 x 410	1300 x 530	1300 x 530
Max. Table load		kg	200	250	400	400
X, Y, Z, axis travel		mm	600x400x300	600x400x400	1200x500x300	1200x500x400
Table to spindle nose		mm	155 ~ 455	140 ~ 540	170 ~ 470	140 ~ 540
Spindle taper			BT30	BT40	BT30	BT40
Pull stud			MAS403 P30T-1(45°)	MAS403 P40T-1(45°)	MAS403 P30T-1(45°)	MAS403 P40T-1(45°)
Spindle motor	Mitsubishi	kW	5.5 / 3.7	7.5 / 5.5	5.5 / 3.7	7.5 / 5.5
	Fanuc	kW	3.7 / 2.2	7.5 / 5.5	3.7 / 2.2	7.5 / 5.5
	Siemens	kW	5.5 / 3.7	10.5 / 7.0		
X drive motor	Mitsubishi	kW	1.5	1.5	3.5	3.5
	Fanuc	kW	1.6	1.6	3.0	3.0
	Siemens	kW	2.3	2.3		
Y drive motor	Mitsubishi	kW	1.5	1.5	3.5	3.5
	Fanuc	kW	1.6	1.6	3.0	3.0
	Siemens	kW	2.3	2.3		
Z drive motor	Mitsubishi	kW	3.0	3.0	3.5	3.5
	Fanuc	kW	3.0	3.0	4.0	4.0
	Siemens	kW	3.3	3.3		
Spindle speeds		rpm	10000	8000	10000	8000
X, Y, Z, axis rapid traverse		m/min	48 / 48 / 60	48 / 48 / 48	48 / 48 / 48	48 / 48 / 48
Tool capacity		no.	14 / 20 (OP)	14	14	14
Max. tool weight		kg	3	3	3	3
Max. tool length		mm	200	250	200	250
ATC time (T-T)		sec	M1.7 / F 2.6 (T-T)	M2.2 / F 3.2 (T-T)	M2.0 / F3.0 (T-T)	M2.5 / F3.5 (T-T)
Net weight		kg	3100	3550	4500	4620
Floor space		mm	1700x2750x2500	1700x2750x2940	2900x3270x2940	2900x3270x3000

CONTROLLER SPECIFICATIONS	Mitsubishi	FANUC
Max. controlled axis	5	4
Max. simultaneous axis	4	4
Standard controlled axis	3	3
Program storage length	512kb	512kb
Work piece coordinates	54	54
Max. variable number	700	600
Tool offset pairs	400	400
Conversations programming	NAVI	Manual guide Oi
Monitor	8.4" TFT LCD	
Multi-language display	O	O
ABS servo motor	O	O
Tool length compensation	O	O
Tool path compensation	O	O
On-screen drafting	O	O
High speed data serve & Ethernet	O	OP
High speed & high accuracy machining control mode	G05.1 Q1	
Interface	RS232/ RJ45	
Memory card input / output	O	O

O : Standard X : None OP : Option

CNC Production Center

A new generation of drilling & Tapping Center

SPINDLE SPEED

- BT30 : 10,000 rpm / 15,000 rpm (OP/ Mitsubishi) / 12,000 rpm (OP/ FANUC)
- BT40 : 8,000 rpm / 12,000 rpm (OP)

NUMBER OF TOOLS

- BT30 : 20
- BT40 : 24

RAPID TRAVERSE

- BT30 : 48 / 48 / 60 m/min
- BT40 : 48 / 48 / 48 m/min

RIGID TAPPING

- BT30 : 4000 rpm
- BT40 : 3000 rpm

POSITIONING ACCURACY

- JIS B6338 : 0.005 / 300 mm
- VDI 3441 P : 0.012 mm

REPEATABILITY ACCURACY

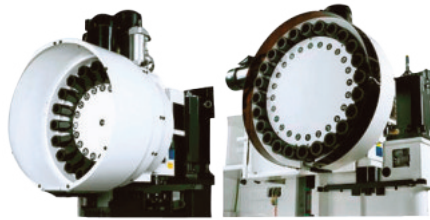
- JIS B6338: ± 0.003 mm
- VDI 3441 P : 0.010 mm



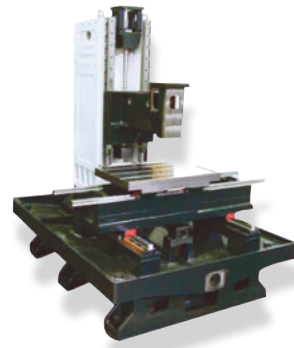
A5630



A7040



THE FASTEST SPINDLE ACCELERATION



TRANSMISSION SYSTEM

A new generation of drilling & Tapping Center



A6030 / A6040

SPINDLE SPEED (STD)

- BT30 : 10,000 rpm
- BT40 : 8,000 rpm

SPINDLE SPEED (OP)

- BT30 : 12,000/15,000/20,000 rpm
24,000 rpm (Mitsubishi)
- BT40 : 12,000 rpm

NUMBER OF TOOLS

- BT30 : A6030 : 20T
- BT40 : A6040 : 24T

RAPID TRAVERSE

- BT30 : 48 / 48 / 60 m/min
- BT40 : 48 / 48 / 48 m/min

RIGID TAPPING

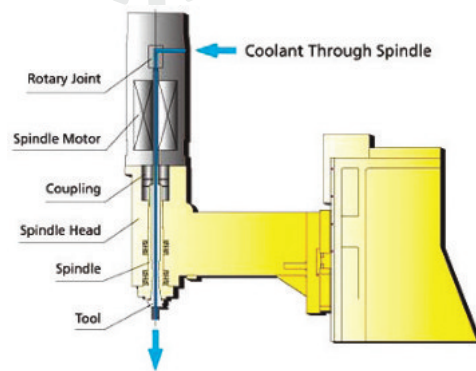
- BT30 : 4000 rpm
- BT40 : 3000 rpm

POSITIONING ACCURACY

- JIS B6338 : 0.005/ 300 mm
- VDI 3441 P : 0.012 mm

REPEATABILITY ACCURACY

- JIS B6338 : ± 0.003 mm
- VDI 3441 P : 0.010 mm



COOLANT THROUGH SPINDLE

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION	UNIT	A 6030	A 6040	A 7030	A 7040	
Table size	mm	700 x 410	700 x 410	800 x 430	800 x 430	
Max. Table load	kg	200	250	250	250	
X, Y, Z, axis travel	mm	600x400x350	600x400x600	700x400x350	700x400x550	
Table to spindle nose	mm	155-505	150-750	180-530	120-670	
Spindle taper		BT30	BT40	BT30	BT40	
Pull stud		MAS403 P30T-1(45°)	MAS403 P40T-1(45°)	MAS403 P30T-1(45°)	MAS403 P40T-1(45°)	
Spindle motor	Mitsubishi	kW	5.5 / 3.7	7.5 / 5.5	5.5 / 3.7	7.5 / 5.5
	FANUC	kW	3.7 / 2.2	7.5 / 5.5	5.5 / 3.7	7.5 / 5.5
	Siemens	kW	5.5 / 3.7	10.5 / 7.0	5.5 / 3.7	10.5 / 7.0
X drive motor	Mitsubishi	kW	1.5	1.5	1.5	1.5
	FANUC	kW	1.6	1.6	1.6	1.6
	Siemens	kW	2.3	2.3	3.3	3.3
Y drive motor	Mitsubishi	kW	1.5	1.5	3.5	3.5
	FANUC	kW	1.6	1.6	3.0	3.0
	Siemens	kW	2.3	2.3	3.3	3.3
Z drive motor	Mitsubishi	kW	3.0	3.0	3.5	3.5
	FANUC	kW	3.0	3.0	4.0	4.0
	Siemens	kW	3.3	3.3	4.9	4.9
Spindle speeds	rpm	10000	8000	10000	8000	
X, Y, Z, axis rapid traverse	m/min	48 / 48 / 60	48 / 48 / 48	48 / 48 / 60	48 / 48 / 48	
Magazine capacity		20+1	24+1	20+1	24+1	
Max. tool weight	kg	4	5	4	5	
Max. tool length	mm	200	250	200	250	
ATC time	sec	2.2 (T-T)	2.2 (T-T)	2.2 (T-T)	2.2 (T-T)	
Net weight	kg	3200	3700	3810	3980	
Floor space	mm	1700x2750x2360	1800x2750x2785	2910x1900x2465	2910x1900x2700	

CONTROLLER SPECIFICATIONS

CONTROLLER SPECIFICATIONS	O : Standard	OP : Option
	MITSUBISHI	FANUC
Max. controlled axis	5	4
Max. simultaneous axis	4	4
Standard controlled axis	3	3
Program storage length	512kb	512kb
Work piece coordinates	54	54
Macro common variables	700	700
Tool offset pairs	200	400
Conversations programming	NAVI	Manual guide 0i
Monitor	8.4" TFT LCD	
Multi-language display	O	O
ABS servo motor	O	O
Tool length compensation	O	O
Tool path compensation	O	O
On-screen drafting	O	O
High speed data serve & Ethernet	OP (64SM)	OP
High speed high precision command	OP (64SM)	O
Interface	RS232	
Memory card input / output	OP (64SM)	O

O : Standard X : None OP : Option

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION	UNIT	A 12030	A 12040	
Table size	mm	1300 x 530	1300 x 530	
Max. Table load	kg	400	400	
X, Y, Z, axis travel	mm	1200x500x350	1200x500x550	
Table to spindle nose	mm	170-520	140-690	
Spindle taper		BT30	BT40	
Pull stud		MAS403 P30T-1(45°)	MAS403 P40T-1(45°)	
Spindle motor	Mitsubishi	kW	5.5 / 3.7	7.5 / 5.5
	FANUC	kW	3.7 / 2.2	7.5 / 5.5
X drive motor	Mitsubishi	kW	3.5	3.5
	FANUC	kW	3.0	3.0
Y drive motor	Mitsubishi	kW	3.5	3.5
	FANUC	kW	3.0	3.0
Z drive motor	Mitsubishi	kW	3.5	3.5
	FANUC	kW	4.0	4.0
Spindle speeds	rpm	10000	8000	
X, Y, Z, axis rapid traverse	m/min	48/48/48	48/48/48	
Magazine capacity		20+1	24+1	
Max. tool weight	kg	4	5	
Max. tool length	mm	200	250	
ATC time	sec	2.2(T-T)	2.4(T-T)	
Net weight	kg	4570	4700	
Floor space	mm	2900x3270x2625	2900x3270x2885	

CONTROLLER SPECIFICATIONS

CONTROLLER SPECIFICATIONS	O : Standard	OP : Option
	MITSUBISHI	FANUC
Max. controlled axis	5	4
Max. simultaneous axis	4	4
Standard controlled axis	3	3
Program storage length	1280m	1280m
Work piece coordinates	54	54
Macro common variables	700	600
Tool offset pairs	400	400
Conversations programming	NAVI	Manual guide 0i
Monitor	8.4" TFT LCD	
Multi-language display	O	O
ABS servo motor	O	O
Tool length compensation	O	O
Tool path compensation	O	O
On-screen drafting	O	O
High speed data serve & Ethernet	O	OP
High speed & high accuracy machining control mode	G05.1 Q1	
Interface	RS232/RJ45	
Memory card input / output	O	O

CNC Production Center (Double Work Stations)

A new generation of drilling & Tapping Center S 3030/ S 6040

SPINDLE SPEED

- BT30 : 10,000 rpm / 15,000 rpm (OP)
- BT40 : 8,000 rpm / 12,000 rpm (OP)

NUMBER OF TOOLS

- BT30 : 12 (S3030) / 20(S500)
- BT40 : 24 (S6040)

RIGID TAPPING

- BT30 : 4,000 rpm
- BT40 : 3,000 rpm

POSITIONING ACCURACY

- JIS B6338 : ± 0.003 mm
- VDI 3441 P : 0.010 mm

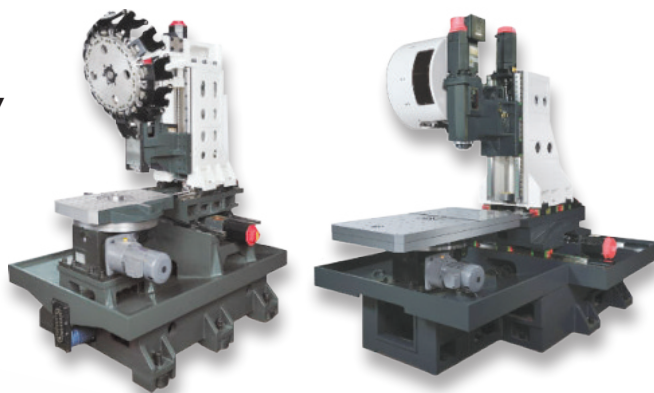
REPEATABILITY ACCURACY

- JIS B6338 : ± 0.003 mm
- VDI3441 P: 0.010 mm



S3030

S6040



DIRECT DRIVE SPINDLE



BT 30



BT 40

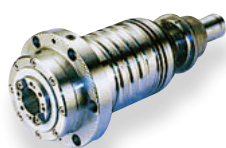
MACHINE SPECIFICATIONS

MACHINE SPECIFICATION	UNIT	S 3030	S 500	S 6040	
Table size	mm	400 x 250 x 2pcs	600 x 400 x 2pcs	700 x 400 x 2pcs	
Max. table load	kg	100	250	250	
X, Y, Z, axis travel	mm	300 x 250 x 250	500 x 400 x 350	600 x 400 x 500	
Table to spindle nose	mm	180-430	180 - 530	180-680	
Spindle taper		BT30	BT30	BT40	
Pull stud		MAS403 P30T-1(45°)	MAS403 P30T-1 (45°)	MAS403 P40T-1(45°)	
Spindle motor	Mitsubishi	kW	5.5 / 3.7	5.5 / 3.7 / 5.5	
	FANUC	kW	3.7 / 2.2	3.7 / 2.2	7.5 / 5.5
	SIEMENS	kW	5.5 / 3.7	5.5 / 3.7	10.5 / 7.0
X drive motor	Mitsubishi	kW	1.5	1.5	3.5
	FANUC	kW	1.6	1.6	3.0
	SIEMENS	kW	2.3	2.3	3.3
Y drive motor	Mitsubishi	kW	1.5	1.5	3.5
	FANUC	kW	1.6	1.6	3.0
	SIEMENS	kW	2.3	2.3	3.3
Z drive motor	Mitsubishi	kW	1.5	1.5	3.5
	FANUC	kW	1.6	1.6	4.0
	SIEMENS	kW	2.3	3.3	4.9
Spindle speeds	rpm	10000	10000	8000	
X, Y, Z, axis rapid traverse	m/min	48 / 48 / 48	36 / 36 / 48	36 / 36 / 48	
Magazine capacity		14 / 20 (OP)	20+1	24+1	
Max. tool weight	kg	3	3	5	
Max. tool length	mm	200	200	250	
ATC time (T-T)	sec	1.9 / F2.6	2.2	3.1	
APC time	sec	3	4.5	5	
Net weight	kg	3350	5250	6600	
Floor space	mm	2760x1730x2420	4130 x 2046 x 2370	3660 x 2582 x 2780	

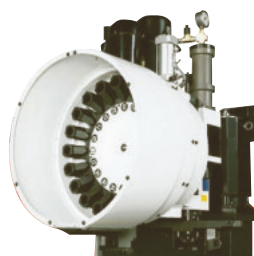


S500

- Spindle speed 60~10,000 rpm (Standard)
- Spindle speed 60~15,000 rpm (Optional)
- Low inertia spindle and spindle motor
- Rigid tapping : 4,000 rpm
- Tool holder : BT30 (STD) / BBT (OPT)
- Rapid traverse X, Y : 36 m/min, Z : 30 m/min
- High speed arm type ACT time (T-T : 2.3 sec)
- Work table change time : 4.5 sec
- Direct drive spindle motor



DIRECT DRIVE SPINDLE



**FULL-TRAVEL COLUMN
STRUCTURE AND UNIQUE ATC**



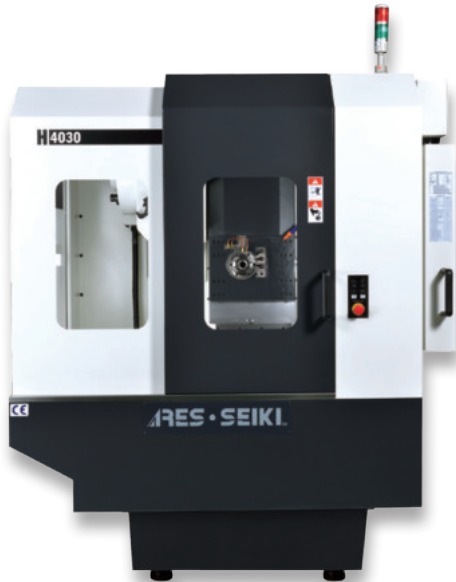
CONTROLLER SPECIFICATIONS

CONTROLLER SPECIFICATIONS	O : Standard OP : Option		
	MITSUBISHI	FANUC	SIEMENS
Max. controlled axis	5	4	4
Max. simultaneous axis	4	4	4
Standard controlled axis	3	3	3
Program storage length	512kb	512kb	3M
Work piece coordinates	54	54	100
Max. variables number	700	600	300
Tool offset pairs	400	400	128/256
Conversations programming	NAVI	Manual guide Oi	Program guide shopmill (OP)
Monitor	8.4" TFT LCD		10.4" LCD
Multi-language display	O	O	O
ABS servo motor	O	O	O
Tool length compensation	O	O	O
Tool path compensation	O	O	O
On-screen drafting	O	O	O
High speed data serve & ethernet	O	OP	O
High speed & high accuracy machining control mode	G05.1 Q1		Cycle 832
Interface	RS232/RJ45		RJ45
Memory card input / output	O	O	O

T-SLOT

	S 3030	S 500	S 6040
T-SLOT	3 pcs	4 pcs	4 pcs
A	800	1100	1400
B	290	315	415
C	400	600	700
D	700	1000	1200
E	45	50	55
F	80	100	125
G		200	180
H		300	350
I		Ø50 ^{+0.005}	Ø50 ^{+0.005}
J	300	500	600
K	250	400	400

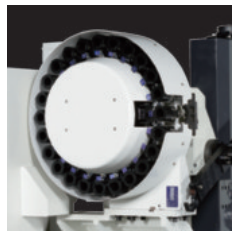
Horizontal CNC Tapping Center



H4030



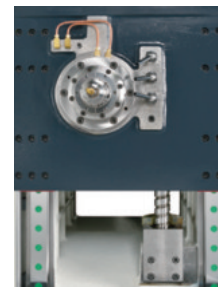
H4040P



24 tool cam type ATC to provide stable tool change system

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION		UNIT	H4030	H4040P
Table size		mm	400 x 400	400 x 400 x 2
Max. Table load		kg	200	300
Max. Workpiece dimension (Ø x height)		mm	Ø 480 x 540	Ø 560 x 700
Min Indexing precision of table		degree	0.001	0.001
Cumulative indexing precision of table		sec	20	20
Table repeatability accuracy		sec	4	4
Drive system for table exchange				Cam type
Max. rotation diameter of table				600
Max. rotation diameter of APC				1370
X, Y, Z axis travel		mm	400 x 450 x 380	500 x 450 x 450
X, Y, Z axis rapid traverse		m/min	48 / 60 / 48	48 / 48 / 48
3 axes bidirectional accuracy of positioning		mm	VDI 3441	VDI 3441
3 axes bidirectional repeatability of positioning		mm	VDI 3441	VDI 3441
Spindle speeds		rpm	10000	8000
Spindle taper			BT30	BT40
Pull stud			MAS403 P30T-1(45°)	MAS403 P40T-1(45°)
Spindle driving			Direc	Direc
Spindle center to surface of table		mm	90-540	100-550
Spindle nose to table center		mm	190-570	160-610
Spindle motor	Mitsubishi	kw	5.5 / 3.7	7.5 / 5.5
	FANUC	kw	5.5 / 3.7	7.5 / 5.5
	SIEMENS	kw	5.5 / 3.7	10.5 / 7
X Drive motor	Mitsubishi	kw	1.5	1.5
	FANUC	kw	1.6	1.6
	SIEMENS	kw	2.3	2.3
Y Drive motor	Mitsubishi	kw	3	3
	FANUC	kw	3	3
	SIEMENS	kw	3.3	4.8
Z Drive motor	Mitsubishi	kw	1.5	2.2
	FANUC	kw	1.6	1.6
	SIEMENS	kw	2.3	2.3
B Drive motor	Mitsubishi	kw	1.5	2.2
	FANUC	kw	1.6	1.6
	SIEMENS	kw	2.3	2.3
Magazine capacity			24+1	30
Max. tool weight		kg	4	5
Max. tool length		mm	200	250
Max. tool diameter		mm	65 (80)	80
ATC time (T-T)		sec	2.5	2.7 (T-T)
Tool change Type			Arm type	Arm type
Tank volume		l	200	200
Colant pump rate		W	600 x 2 pcs	600
Flow rate		l/min	136	136
Chip flush type			Flushing type	Flushing type
Auto. chip conveyor			OP	OP
Net weight		kg	3700	5700
Floor spacs		mm	1835 x 2593 x 2407	3075 x 3645 x 2420 2030 x 4200 x 2420



3 axes are equipped with roller guide ways and big spacing (span) to strengthen spindle machining performance



The rotary operation box is easy for operators operating

CONTROLLER SPECIFICATION

CONTROLLER SPECIFICATION	O : Standard OP : Option		
	MITSUBISHI	FANUC	SIEMENS
Max. Controlled axis	5	4	4
Max. simultaneous axis	4	4	4
Standard controlled axis	4	4	4
Program storage length	512kb	512kb	3M
Work piece coordinates	54	54	100
Max. Variable number	700	600	300
Tool offset pairs	400	400	128/256
Conversational programming	NAVI	Manual guide Oi	Program guide shopmill (OP)
Monitor	8.4" TFT LCD		10.4" LCD
Multi-language display	O	O	O
ABS servo motor	O	O	O
Tool length compensation	O	O	O
Tool path compensation	O	O	O
On-screen drafting	O	O	O
High speed data server & ethernet	O	OP	O
High speed & high accuracy machining control mode	G05.1 Q1		CYCLE832
Interface	RS232 / RJ45		RJ45
Memory card input / output	O	O	O
USB input / output	O	O	O



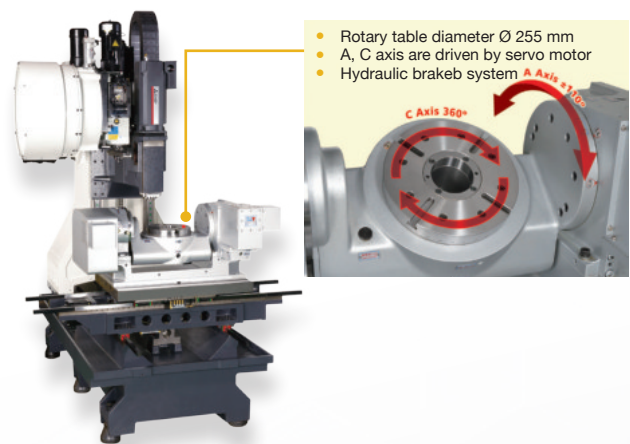
A5X403



A5X404

MACHINE SPECIFICATIONS

MACHINE SPECIFICATION	UNIT	A5X403	A5X404	
Table size	mm	Ø 255	Ø 320	
Max. Table load	kg	50	75	
Max. Workpiece dimension (Ø x height)	mm	Ø 360 x 250	Ø 448 x 250	
Min Indexing precision of c axis rotary	degree	0.001	0.001	
Cumulative indexing precision of C axis	sec	15	15	
C axis repeatability accuracy	sec	4	6	
Slope angle of A axis	degree	±110	+120 / - 40	
Cumulative indexing precision of A axis	sec	60	45	
A axis repeatability accuracy	sec	8	8	
Max. Speeds for A, C axis	rpm	33.3	13.3 / 22.2	
X, Y, Z axis travel	mm	400 x 500 x 400	400 x 500 x 450	
3 axes rapid traverse	m/min	48 / 48 / 48	48 / 48 / 48	
3 axes bidirectional accuracy of positioning	mm	VDI 3441	VDI 3441	
3 axes bidirectional repeatability of positioning	mm	VDI 3441	VDI 3441	
Spindle speeds	rpm	10000	8000	
Spindle taper		BT30	BT40	
Pull stud		MAS 403 P30T-1(45°)		
Spindle Driven		Direct-drive		
Spindle nose to table	mm	30~430	40 ~ 490	
Spindle center to Z path	mm	570	570	
Spindle motor	Mitsubishi	kw	5.5 / 3.7	7.5 / 5.5
	FANUC	kw	5.5 / 3.7	7.5 / 5.5
X Drive motor	Mitsubishi	kw	1.5	1.5
	FANUC	kw	1.6	1.6
Y Drive motor	Mitsubishi	kw	1.5	2.2
	FANUC	kw	1.6	2.7
Z Drive motor	Mitsubishi	kw	3.0	3.0
	FANUC	kw	3.0	3.0
A Drive motor	Mitsubishi	kw	1.5	3.5
	FANUC	kw	1.6	4.0
C Drive motor	Mitsubishi	kw	1.0	1.5
	FANUC	kw	1.0	1.6
Magazine capacity	no.	20+1	24+1	
Max. tool weight	kg	4	5	
Max. tool length	mm	200	250	
Max. tool diameter	mm	60 (80)	80 (120)	
ATC time (T-T)	sec	2.2	2.4	
Tool change Type		Arm type		
Tank volume	l	260	260	
Coolant pump rate	w	600 x 2pcs	600 x 2pcs	
Flow rate	l/min	136	136	
Chip flush type		Flushing type		
Auto. chip conveyor		OP		
Net weight	kg	3900	4300	
Floor spac	mm	1970 x 3032 x 2700	2170 x 3032 x 2657	



- Rotary table diameter Ø 255 mm
- A, C axis are driven by servo motor
- Hydraulic brake system A Axis ±120°

5-AXIS CNC TAPPING CENTER

Compact mechanical construction & 3 axes are equipped with roller guide ways suitable for medical equipment, aerospace equipment, 3C, automobile, motorcycle...etc.

CONTROLLER SPECIFICATION

CONTROLLER SPECIFICATIONS	0 : Standard	OP : Option
	MITSUBISHI	FANUC
Max. Controlled axis	5	5
Max. simultaneous axis	4	4
Standard controlled axis	5	5
Program storage length	512kb	512kb
Work piece coordinates	54	54
Max. Variable number	700	600
Tool offset pairs	400	400
Conversational programming	NAVI	Manual guide Oi
Monitor	8.4" TFT LCD / 10.4" TFT LCD (OP)	
Multi-language display	O	O
ABS servo motor	O	O
Tool length compensation	O	O
Tool path compensation	O	O
On-screen drafting	O	O
High speed data server & ethernet	O	OP
High speed & high accuracy machining control mode	G05.1 Q1	
Interface	RS232/RJ45	
Memory card input / output	O	O