



R Series 4530/5030/5630/6030 CNC DRILLING & TAPPING CENTER

NEWLY DESIGNED MACHINE STRUCTURE & SERVO SYSTEM

- DIRECT DRIVE SPINDLE
- HIGH SPEED 3 AXES RAPID TRAVERSE
- HIGH RESPONSE SERVO SYSTEM
- Spindle speed 10,000rpm (STD)
- Spindle speed
 - OP: 12,000 / 15,000 / 20,000rpm
 - OP: 24,000rpm (Mitsubishi / Siemens)
 - OP: 30,000rpm (R4530 / R5030)
- Rigid tapping 4,000rpm
- Spindle nose taper BT30 (STD) / BBT30 (OP)
- 3 axes rapid traverse X, Y : 48m/min, Z : 60m/min
- Fully enclosed electric case (Heat insulated)
- High speed mechanical ATC system
- Directly coupled spindle drive system

HIGH SPEED

Travel Speed : Provides 48m/min on X and Y axis, and 60m/min on Z axis.

Tapping : The rigid spindle is directly coupled to the motor. This reduces transmission error and maximizes transmission power. Special design is adopted for the Mitsubishi controller with low inertia spindle motor. High tapping speed is up to 4,000 rpm.

Tool Change : Mechanical type system. Structurally sound, stable and reliable.



**R5630
R6030**

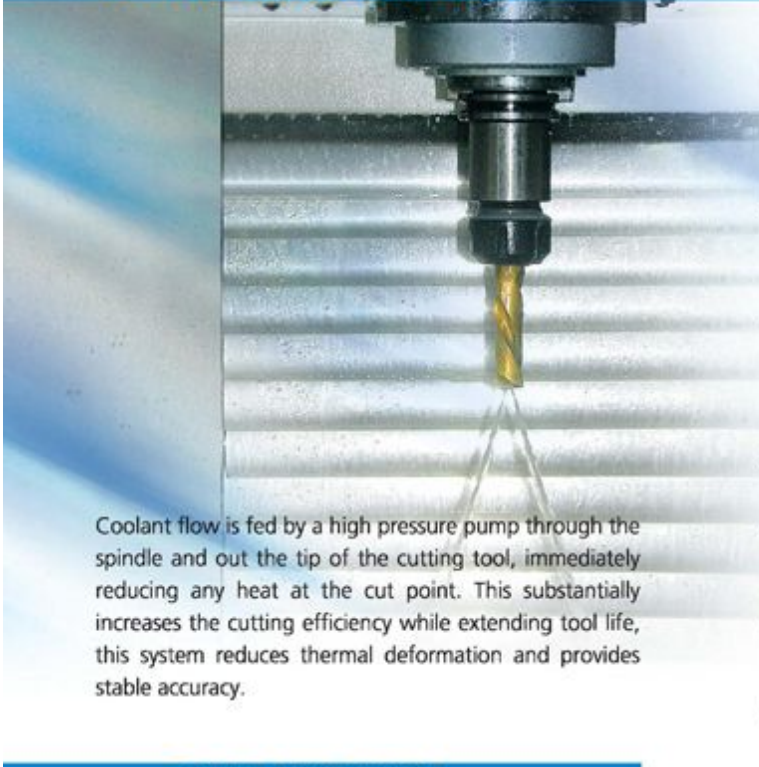
HIGH RIGIDITY

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.

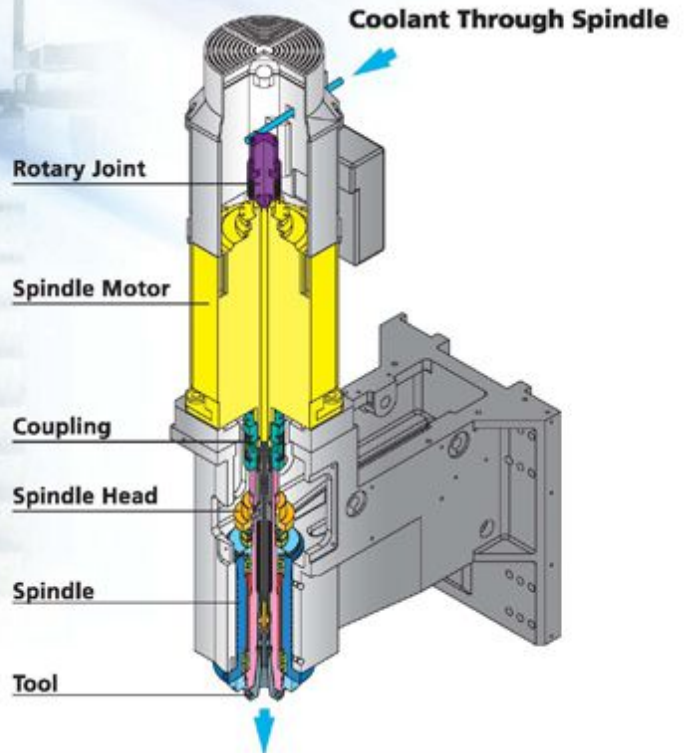


**R4530
R5030**

COOLANT THROUGH SPINDLE (OP)



Coolant flow is fed by a high pressure pump through the spindle and out the tip of the cutting tool, immediately reducing any heat at the cut point. This substantially increases the cutting efficiency while extending tool life, this system reduces thermal deformation and provides stable accuracy.



DIRECT DRIVE SPINDLE

Direct Drive Spindle : The direct coupled spindle eliminates power transmission loss to develop the highest efficiency possible. The spindle is mounted on four P4 high precision taper roller bearings with the addition of a constant temperature regulation system provides outstanding rigidity.



SIMPLE and STABILIZE MAGAZINE

Reduced Non-cut Time and Spindle Acceleration/Deceleration

Special design is adopted all new spindle motor. Especially when performing rigid tapping, frequent acceleration and deceleration is often required. High speed spindle acceleration saves considerable machining time.

All models provide 14T or 20T with servo ATC (OP).



PRECISION TESTING

Laser Interferometer Tap Calibrator



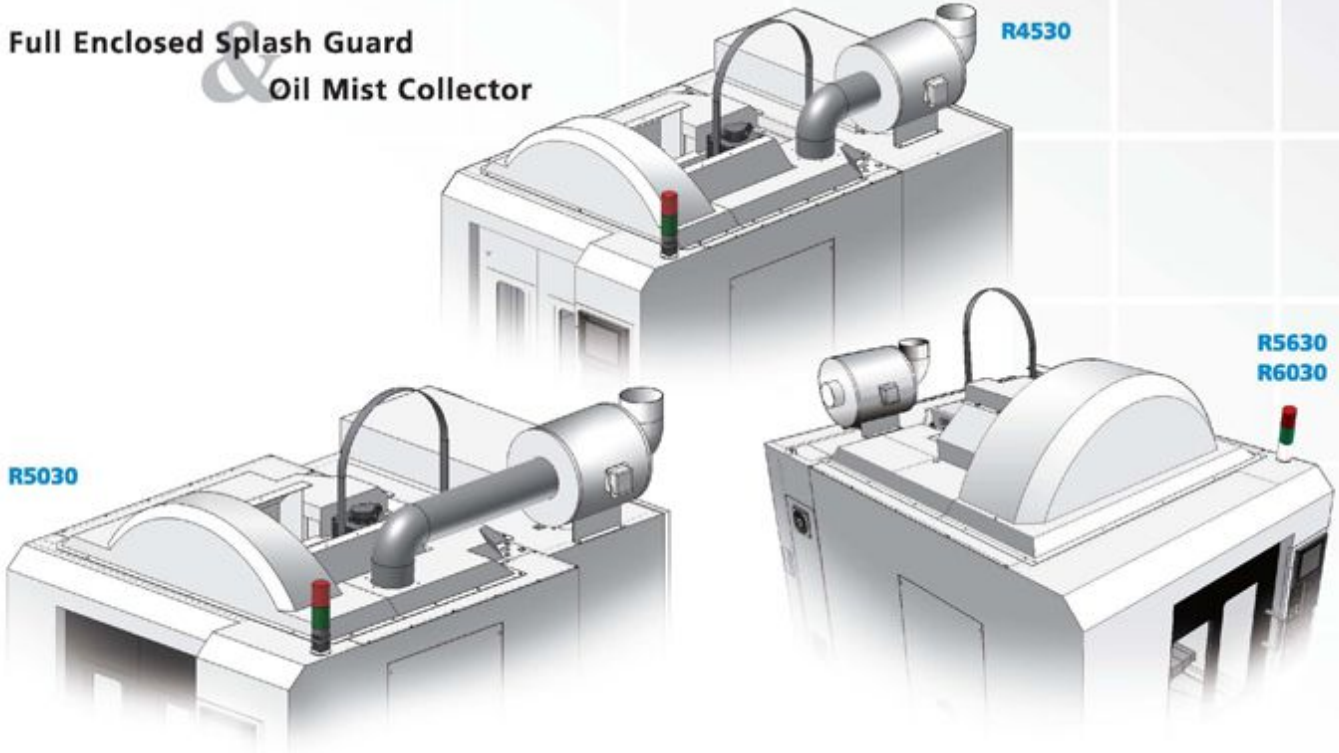
Bar Testing



Damaged Cutting Tool Sensor



Full Enclosed Splash Guard & Oil Mist Collector



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MACHINE SPECIFICATIONS

	Unit	R4530	R5030	R5630	R6030	
Table size	mm	500 x 320	550 x 320	650 x 410	700 x 410	
Max. table load	kg	200	200	200	200	
X, Y, Z axis travel	mm	450 x 300 x 300	500 x 300 x 300	560 x 400 x 300	600 x 400 x 300	
Table to spindle nose	mm	170 ~ 470	170 ~ 470	180 ~ 480	155 ~ 455	
Spindle taper		BT30	BT30	BT30	BT30	
Pull stud		MAS403 P30T-1 (45°)				
Spindle motor	Mitsubishi	kW	5.5 / 3.7	5.5 / 3.7	5.5 / 3.7	5.5 / 3.7
	FANUC	kW	3.7 / 2.2	3.7 / 2.2	3.7 / 2.2	3.7 / 2.2
	SIEMENS	kW	5.6 / 3.7	5.6 / 3.7	5.6 / 3.7	5.6 / 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	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	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	3.3
Spindle speeds	rpm	10000	10000	10000	10000	
X, Y, Z axis rapid traverse	m/min	48 / 48 / 60	48 / 48 / 60	48 / 48 / 60	48 / 48 / 60	
Tools capacity	no.	12	14 / 20 (OP)	14 / 20 (OP)	14 / 20 (OP)	
Max. tool weight	kg	3	3	3	3	
Max. tool length	mm	200	200	200	200	
ATC time (T-T)	sec	M1.6 / F2.5	M 1.6 / F 2.5	M 1.7 / F 2.6	M 1.7 / F 2.6	
Net weight	kg	2100	2200	2600	3100	
Floor space	mm	1200 x 2230 x 2480	1500 x 2230 x 2480	1590 x 2640 x 2500	1700 x 2750 x 2500	

CONTROLLER SPECIFICATIONS

				O : Standard OP : Option			
	M80-B	0iMF	828D-PPU260	M80-B	0iMF	828D-PPU260	
Max. number of controlled NC axis	5	5	4	Multi-language display	O	O	O
Max. simultaneous axis	4	4	4	ABS servo motor	O	O	O
Standard controlled axis	3	3	3	Tool length compensation	O	O	O
Program storage length	512kb	512kb	3M	Tool path compensation	O	O	O
Work piece coordinates	54	54	100	On-screen drafting	O	O	O
Max. variable number	700	600	300	High speed data serve & Ethernet	O	OP	O
Tool offset pairs	400	400	128/256	High speed & high accuracy machining control mode	G05 P10000	Q1	Cycle832
Conversational programming	NAVI	Manual guide Oi	Program Guide Shopmill(OP)	Interface	RS232 / RJ45	RJ45	
Monitor	8.4" TFT LCD		10.4" LCD	Memory card input/output	O	O	O

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

STANDARD ACCESSORIES

- Toolbox and tools
- Auto. lubrication system
- Tool coolant system
- Spindle air blow system
- Leveling bolts and pads
- Direct drive spindle system
- Work light
- Fully enclosed electric case (Heat insulated)
- Dual-color alarm light
- Screw-type chip conveyor (R4530 / R5030)
- TFT LCD

OPTIONAL ACCESSORIES

- Servo ATC
- Transformer / stabilizer
- Work piece air blow system
- Spindle speed:
 - 12,000 / 15,000 / 20,000rpm
 - 24,000rpm (Mitsubishi / Siemens)
 - 30,000rpm (R4530 / R5030)
 - high speed spindle (With spindle oil cooling system)
- Coolant through spindle (CTS)
 - CTS filter
 - Air gun / Water gun
 - Surround chip flushing system (R4530 / R5030)
 - Oil water partition
 - Auto. tool length measurement
 - Damaged cutting tool sensor
 - Full enclosed splash guard (top cover)
 - Oil mist collector
 - Auto. door

**EXCELLENCE
THROUGH
EXPERTISE**



**R4530/5030/5630/6030
CNC TAPPING CENTER**

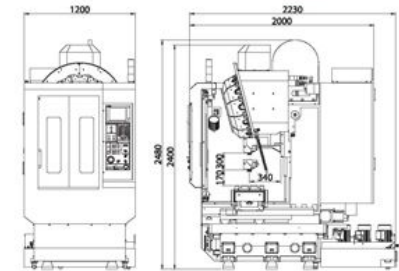
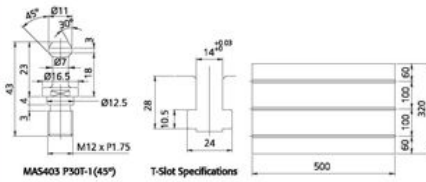
RES-SEIKI®

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CNC DRILLING & TAPPING CENTER**

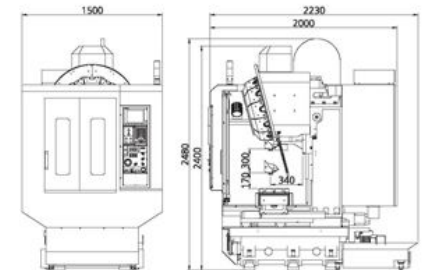
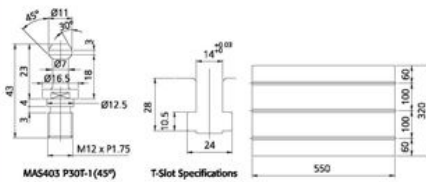
MACHINE DIMENSIONS

T-Slot : 3 pcs Unit : mm

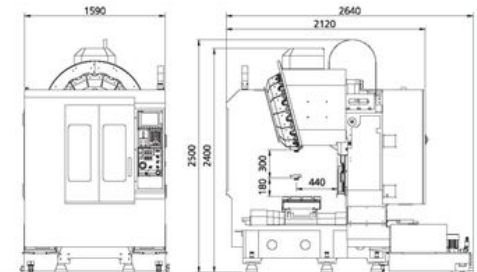
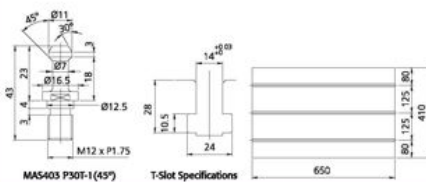
R4530



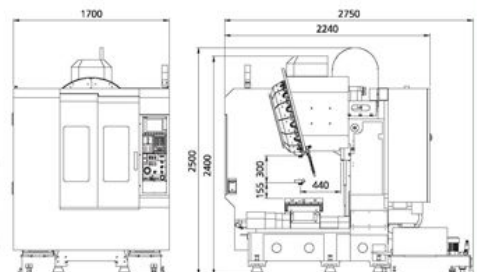
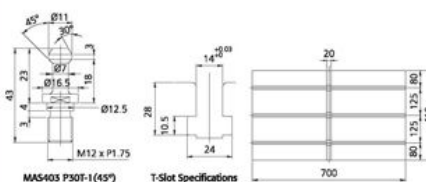
R5030



R5630



R6030



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