

Machine Specifications		A series		R series		
	Unit	A6030	A6040	R6030	R6040	
Table size	mm	700 x 410	700 x 410	700 x 410	700 x 410	
Max. table load	kg	200	250	200	250	
X, Y, Z axis travel	mm	600 x 400 x 350	600 x 400 x 600	600 x 400 x 300	600 x 400 x 400	
Table to spindle nose	mm	155 ~ 505	150 ~ 750	155 ~ 455	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	5.6 / 3.7	10.5 / 7.0	5.6 / 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	2.3	2.3
Y 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	2.3	2.3
Z drive motor	Mitsubishi	kw	3.0	3.0	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	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	no.	20+1	24+1	14 / 20 (OP)	14	
Max. tool weight	kg	4	5	3	3	
Max. tool length	mm	200	250	200	250	
ATC time (T-T)	sec	2.2	2.2	1.7 / F2.6	2.2 / F3.2	
Net weight	kg	3200	3700	3100	3550	
Floor space	mm	1700 x 2750 x 2360	1800 x 2750 x 2785	1700 x 2720 x 2500	1700 x 2750 x 2940	

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	3	3	3	ABS servo motor	O	O	O
Program Storage Length	500kb	512kb	3M	Tool length compensation	O	O	O
Work Piece Coordinates	54	54	100	Tool path 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" 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

- Auto. Lubrication system
 - Tool coolant system
 - Direc drive spindle system
 - Spindle air blow system
 - Dual electric cases (Heat insulated)
- Work light
 - Triple-color alarm light
 - TFT LCD
 - Toolbox and tools
 - Leveling bolts and pads

Optional Accessories

- Servo ATC (R6030/R6040)
 - MITSUBISHI M80-A(G05 P20000)
 - Spindle speed
 - BT30:12000/15000/20000/24000 rpm
 - BT40:12000/15000
 - High speed spindle (With spindle oil cooling system)
 - Coolant through spindle(CTS)
- Full enclosed splash guard (Top Cover)
 - Transformer/stabilizer
 - The 4th axis (CNC Rotary Table)
 - The 5th axis (CNC Tilting Rotary Table)
 - Chip conveyor with cart
 - CTS filtration
 - Oil/water partition

CNC TAPPING CENTER



A6030



A6040



R6030



R6040

EXCELLENCE
THROUGH
EXPERTISE



ARES MACHINERY CO., LTD.

A6030 / 6040
R6030 / 6040

RES·SEIKI
CNC TAPPING CENTER

No. 256, Tu-Cheng Rd., Da-Li, Taichung, Taiwan 41274

Tel: +886-4-2492-5555

ares999@ms16.hinet.net

Fax: +886-4-2496-6959

www.ares-seiki.com



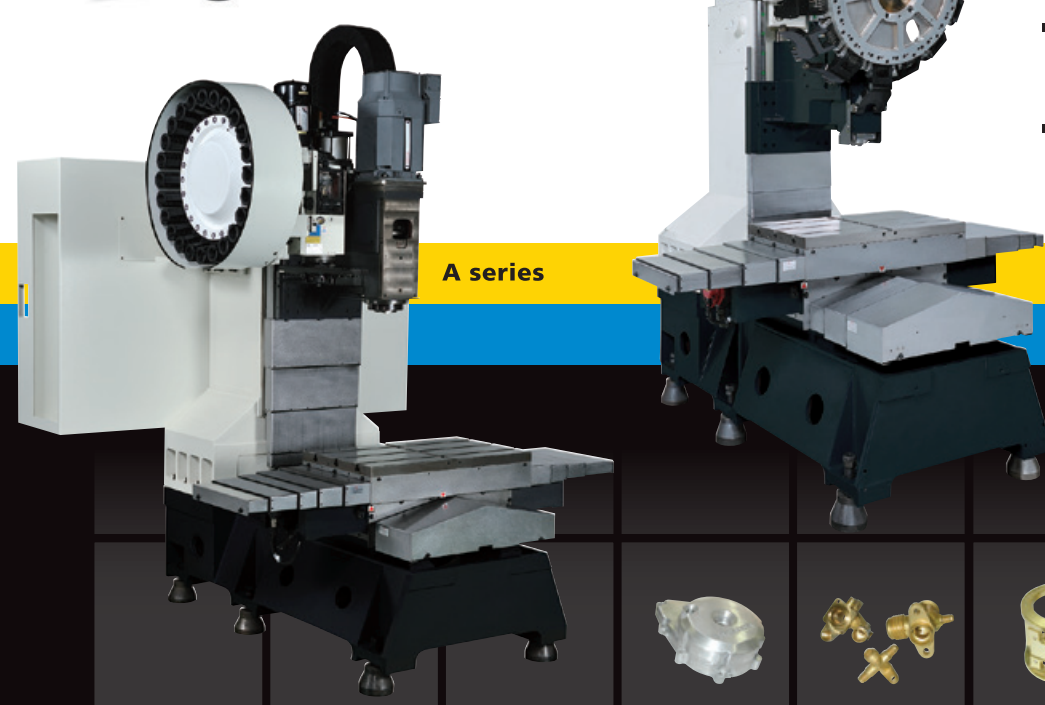
★ The company reserves the right to modify the specifications / design, subject to change without further notice. Actual specifications, based on order content.

ARES:ARSIE-06-MOEON-1000



A New Generation Of CNC Tapping Center R

- Direct Drive Spindle
- High Speed 3 Axes Rapid Traverse
- High Response Servo System

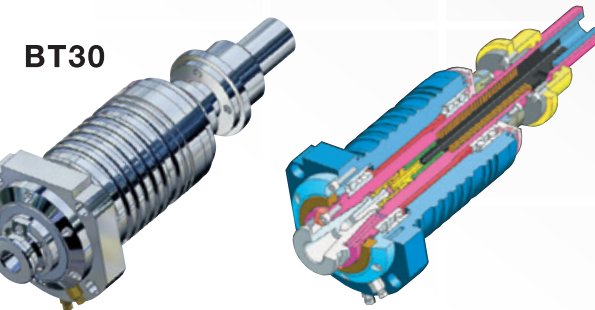


A series

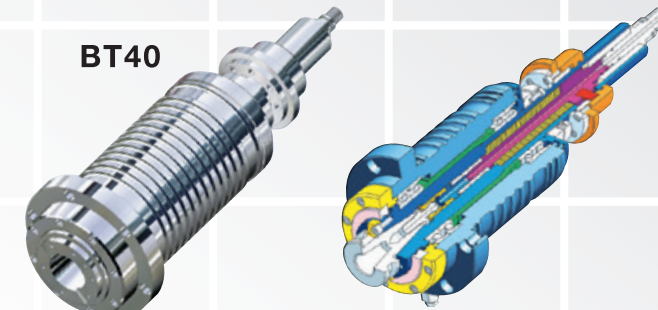
R series

Direct Drive Spindle

Spindle: The directly coupled spindle eliminates power transmission loss to develop the highest efficient of spindle motor. Spindle is mounted on four P4 high precision angular contact ball bearings combined with constant temperature device to provide outstanding richening rigidity.



BT30



BT40

CTS (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.

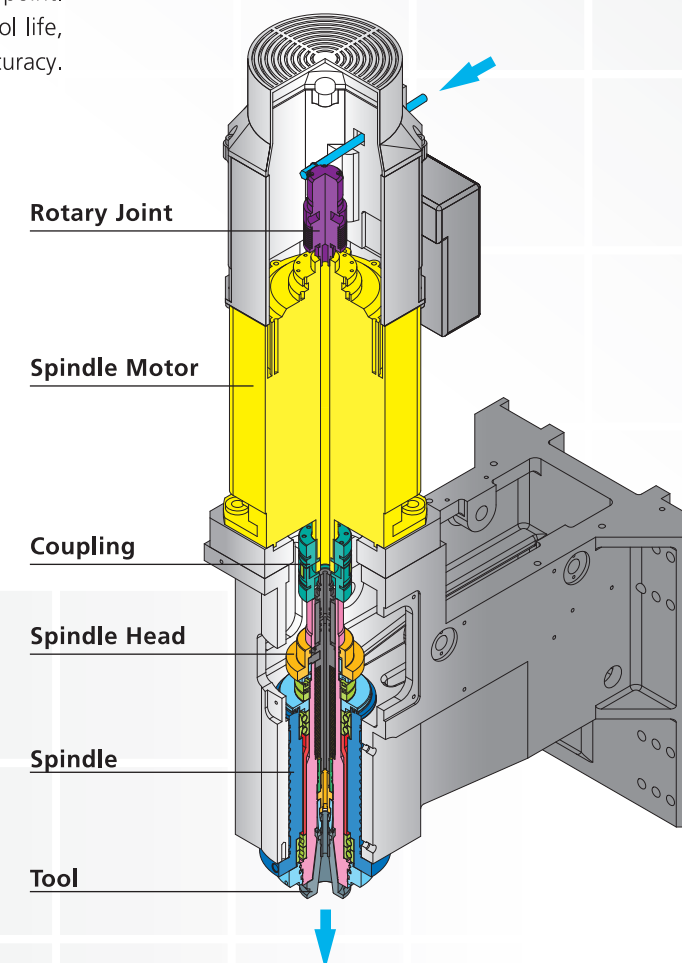


Oil Cooler



CTS Filtration with Water Tank

Coolant Through Spindle



Rotary Joint

Spindle Motor

Coupling

Spindle Head

Spindle

Tool



A series

R series

The Fastest Spindle Acceleration

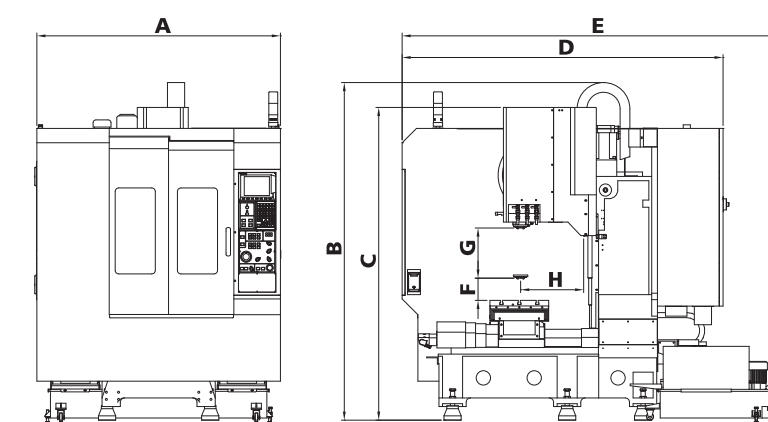
Reduced Non-cut Time & Spindle Acceleration / Deceleration
Special design is adopted all new spindle motor. This greatly reduces the response time for rigid tapping, powerful servo motors on 3 axes feature fast acceleration / deceleration time for 3 axes rapid traverses.

High Speed

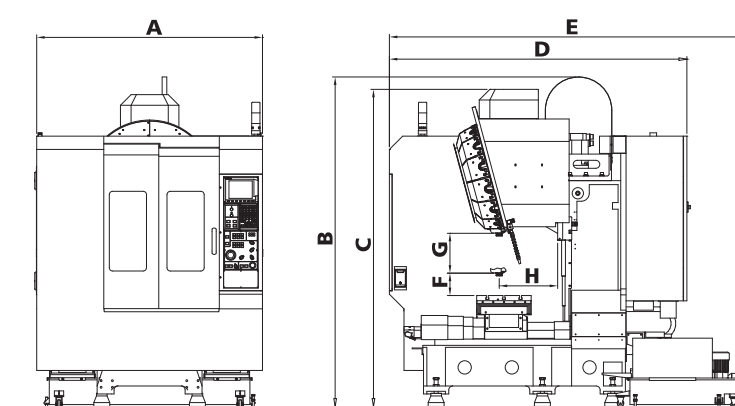
Travel Speed: Provides 48m/min on X & Y axis, & 60m/min (BT30) / 48m/min (BT40) on Z axis.
Tapping: The rigid spindle is directly coupled to the motor. This reduces transmission error and maximizes transmission power.
Tool Change: Incorporates a special structure which reduces electronic sensing time. Adjacent tool change time (T-T):
BT30 2.2 sec(A6030), M1.7 / F2.6 sec (R6030)
BT40 2.2 sec (A6040), M2.2 / F3.2 sec (R6040)

Machine Dimensions

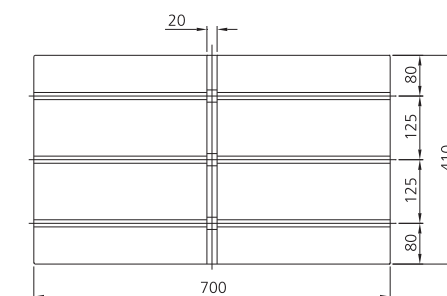
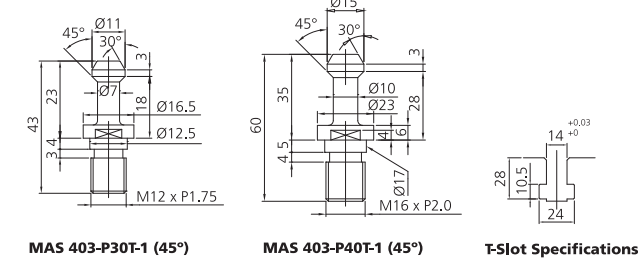
A series



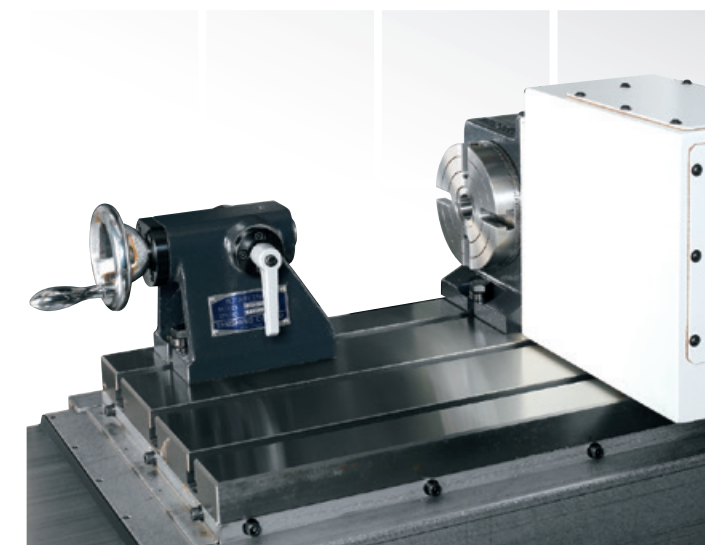
R series



	A	B	C	D	E	F	G	H
A6030	1700	2360	2200	2240	2750	155	350	440
A6040	1800	2785	2630	2240	2750	150	600	450
R6030	1700	2500	2400	2240	2750	155	300	440
R6040	1700	2940	2430	2240	2750	140	400	450



The 4th Axis



Precision Testing

Laser Interferometer Tap Calibrator



Bar Testing



Damaged Cutting Tool Sensor

