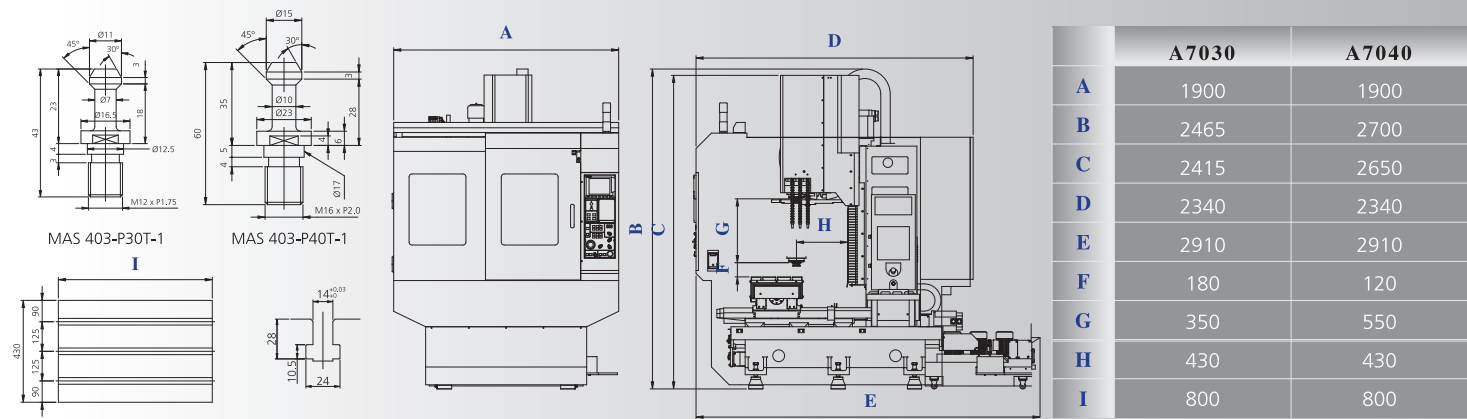


A Series 7030/7040

DIRECT DRIVE SPINDLE ■ HIGH SPEED 3 AXES RAPID TRAVERSE ■ HIGH RESPONSE SERVO SYSTEM

MACHINE SPECIFICATIONS				CONTROLLER SPECIFICATIONS			
		Unit	A7030	A7040			
Table size		mm	800 x 430	800 x 430			
Max. table load		kg	250	250			
X, Y, Z axis travel		mm	700 x 400 x 350	700 x 400 x 550			
Table to spindle nose		mm	180~530	120~670			
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	5.5 / 3.7	7.5 / 5.5			
	SIEMENS	kW	5.6 / 4.8	10.5 / 7.0			
X drive motor	Mitsubishi	kW	1.5	1.5			
	FANUC	kW	1.6	1.6			
	SIEMENS	kW	3.3	3.3			
Y drive motor	Mitsubishi	kW	3.5	3.5			
	FANUC	kW	3.0	3.0			
	SIEMENS	kW	3.3	3.3			
Z drive motor	Mitsubishi	kW	3.5	3.5			
	FANUC	kW	4.0	4.0			
	SIEMENS	kW	4.9	4.9			
Spindle speeds		rpm	10000	8000			
X, Y, Z axis rapid traverse		m/min	48 / 48 / 60	48 / 48 / 48			
Magazine capacity		no.	20+1	24+1			
Max. tool weight		kg	4	5			
Max. tool length		mm	200	250			
ATC time (T-T)		sec	2.2	2.2			
Net weight		kg	3810	3980			
Floor space		mm	2910 x 1900 x 2465	2910 x 1900 x 2700			

MACHINE DIMENSIONS



STANDARD ACCESSORIES

- Auto. Lubrication system
- Tool coolant system
- Direc drive spindle system
- Auto chip purging system
- High speed arm type tool change system
- Spindle air blow system
- Screw-type chip conveyer
- Dual electric cases (Heat insulated)
- Work light
- Triple-color alarm light
- TFT LCD
- Toolbox and tools
- Leveling bolts and pads

OPTIONAL ACCESSORIES

- 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
 - Oil mist collector
 - Water gun
 - Air gun
 - Auto. Door
 - Auto. Tool length measurement
 - Damaged cutting tool sensor
- ★ The company reserves the right to modify the specifications / design, subject to change without further notice. Actual specifications, based on order content.

A Series



EXCELLENCE
THROUGH
EXPERTISE



ARES-SEIKI®



ARES MACHINERY CO., LTD.

A7030/7040
CNC TAPPING CENTER

ARES-SEIKI®

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www.ares-seiki.com



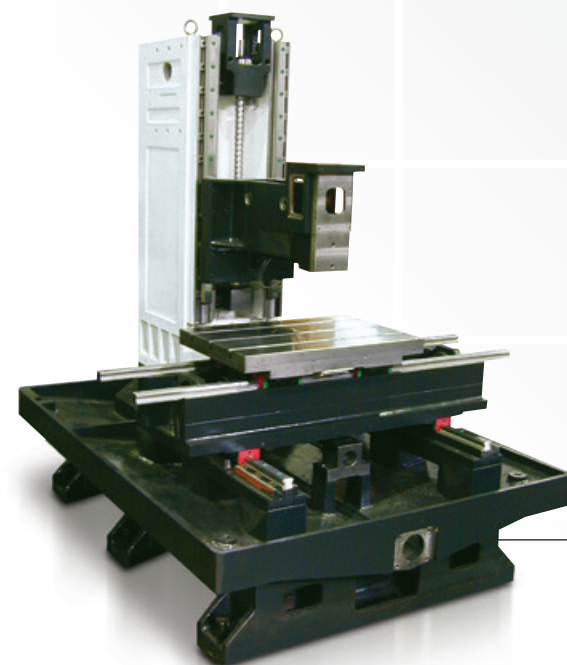
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A Series 7030/7040 CNC DRILLING AND TAPPING CENTER



A NEW GENERATION OF DRILLING & TAPPING CENTER

DIRECT DRIVE SPINDLE ■ HIGH SPEED 3 AXES RAPID TRAVERSE ■ HIGH RESPONSE SERVO SYSTEM

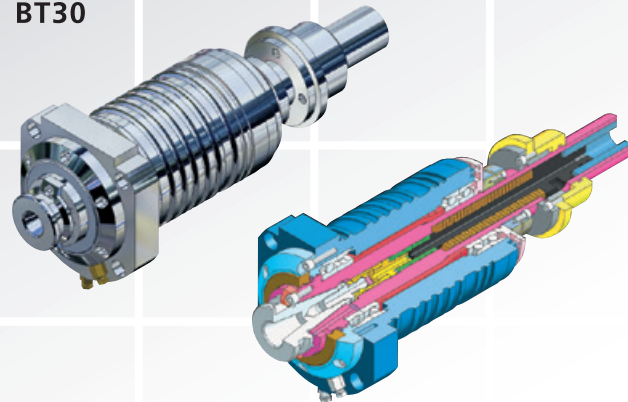


- | | |
|---|--|
| <p>■ Spindle Speed (STD)
BT30: 10000rpm
BT40: 8000rpm</p> <p>■ Spindle Speed (OP)
BT30: 12000 / 15000 / 20000rpm
24000rpm
BT40: 12000 / 15000rpm</p> <p>■ Number of Tools
BT30: 20+1T
BT40: 24+1T</p> <p>■ Rapid Traverse
BT30: 48 / 48 / 60m/min
BT40: 48 / 48 / 48m/min</p> | <p>■ Positioning Accuracy
JIS B6338: 0.005 / 300mm
VDI3441 P: 0.012mm</p> <p>■ Repeatability Accuracy
JIS B6338: ±0.003mm
VDI3441 P: 0.010mm</p> <p>■ Rigid Tapping
BT30: 4000rpm
BT40: 3000rpm</p> |
|---|--|

Transmission System : Three axes are equipped with C3 ball screw and linear guide ways combined with extra long preloaded side blocks for maximum stability of feeding.

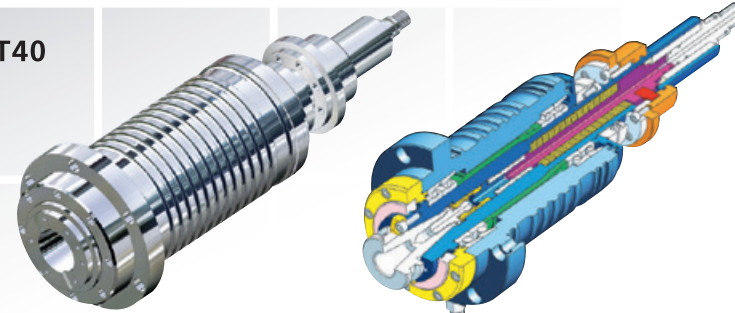
DIRECT DRIVE SPINDLE

BT30



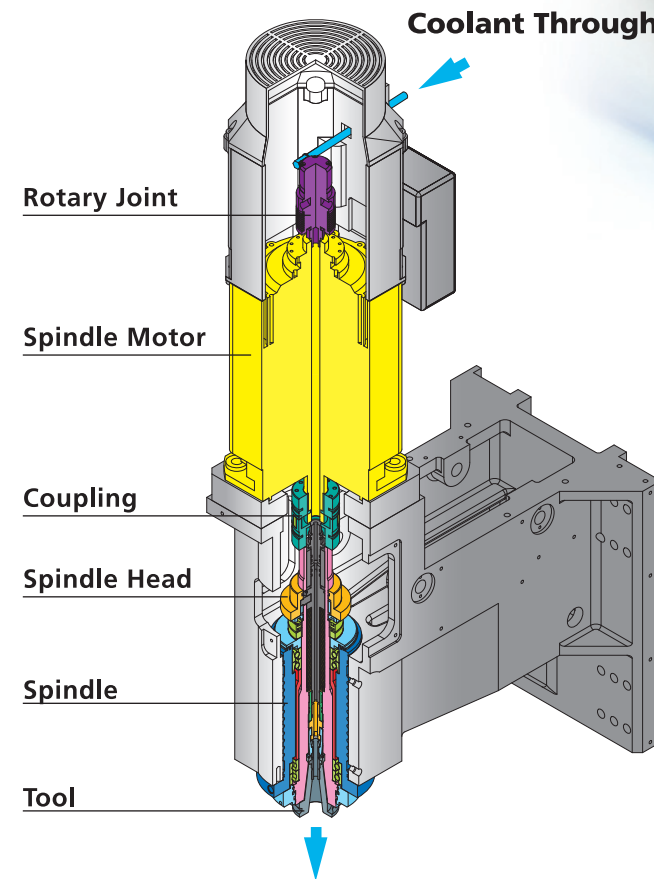
Spindle : The directly coupled spindle eliminates power transmission loss to develop the highest efficient of spindle motor. Spindle is mounted on four P4 high precision angular contact ball bearings combined with constant temperature device to provide outstanding richening rigidity.

BT40



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.



Full Enclosed Splash Guard & Oil Mist Collector

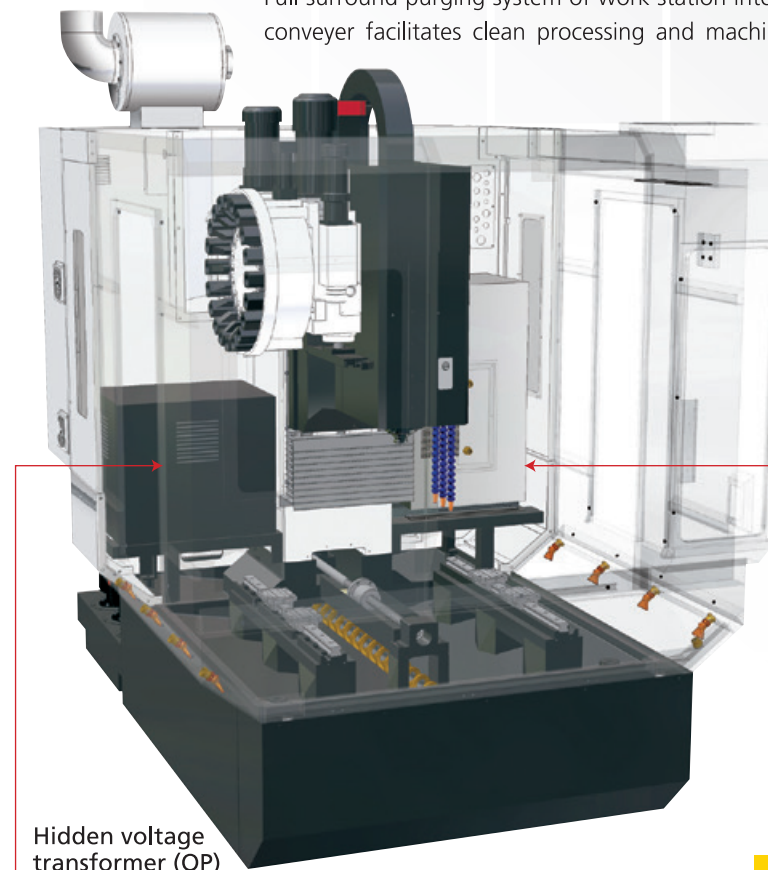


CTS Filtration with Water Tank

Oil Cooler

CHIP PURGING SYSTEM

Full surround purging system of work station integrated with chip conveyer facilitates clean processing and machine maintenance.



Hidden voltage transformer (OP)



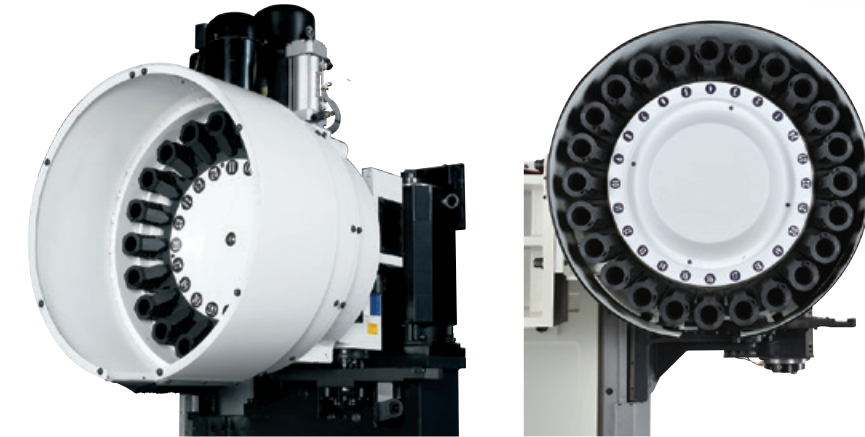
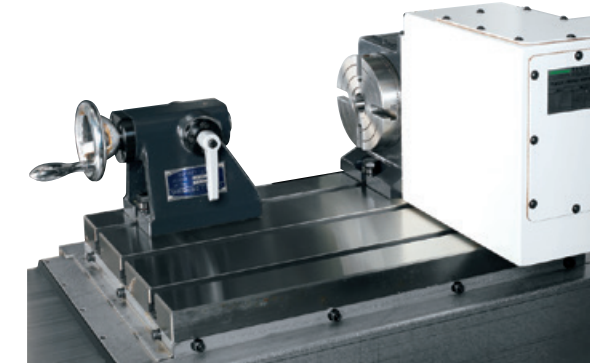
Internal spindle oil cooling system (OP)

THE FASTEST SPINDLE ACCELERATION

Reduced Non-cut Time and Spindle Acceleration / Deceleration

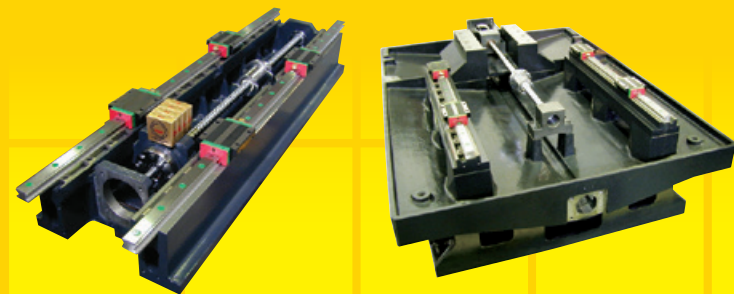
Special design is adopted all new spindle motor. This greatly reduces the response time for rigid tapping, powerful servo motors on 3 axes feature fast acceleration / deceleration time for 3 axes rapid traverses.

The 4th Axis (OP)



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.



HIGH SPEED

Travel Speed : Provides 48m/min on X and Y axis, and 48 (BT40) / 60 (BT30)m/min on Z axis.

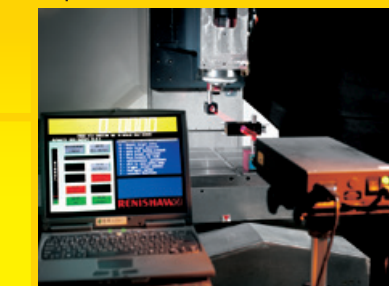
Tapping : The rigid spindle is directly coupled to the motor. This reduces transmission error and maximizes transmission power.

Tool Change : Incorporates a special structure which reduces electronic sensing time. Adjacent tool change time is only 2.2 seconds for BT30, 2.2 seconds for BT40.

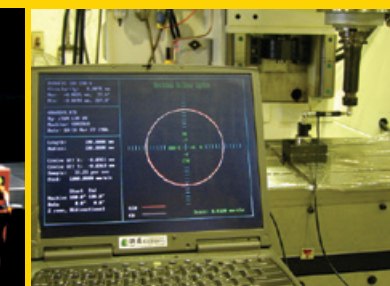


PRECISION TESTING

Laser Interferometer
Tap Calibrator



Bar Testing



Damaged Cutting Tool Sensor

