

# CNC

## MACHINE TOOLS MANUFACTURING | 2020 **S32/42 ATM**

*Total solution for engineering Integration*





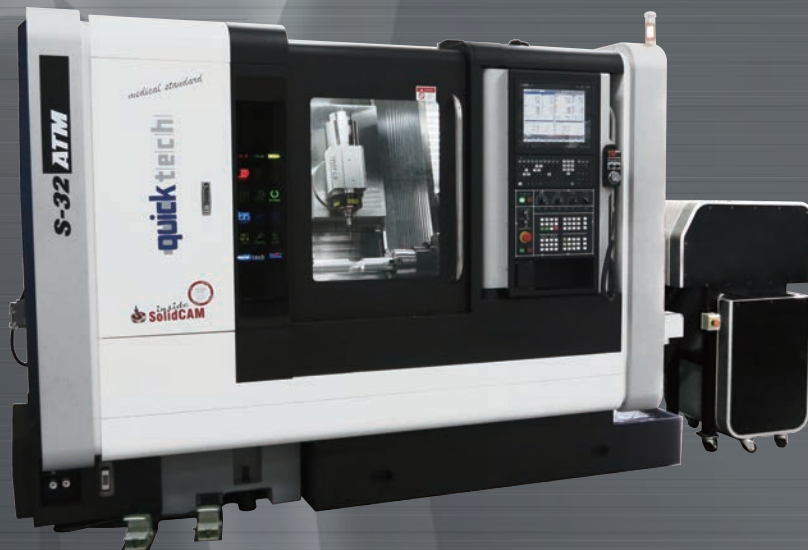
01

# ||S32/42 ATM||

The medical market is highly regulated, require high precision, performance and reliability; lives depend on accurate machining performed by experienced professionals. The new S32 provides an option for a cost-effective machine for those seeking highly accurate turning and angular milling capability. There is no room for error in this field; high-demand request for new medical devices and technologies, This are critical factors in medical manufacturing and the S32 is the machine to achieve this request.



Every new challenger  
Every accurate part  
S32 is your best partner



## ■ Feature :

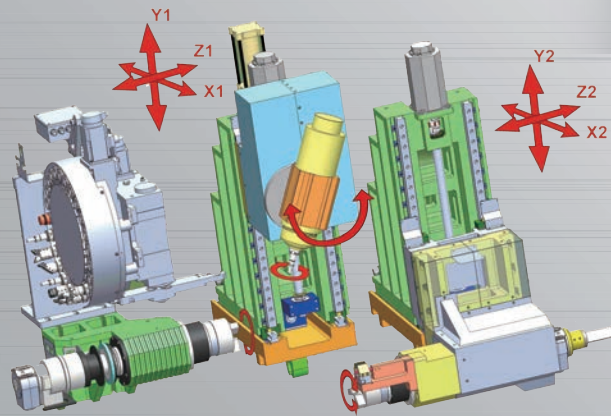
- Versatile Mill Spindle indexing (B-axis) 0-190 degrees
- High-speed, high-torque milling spindle
- Large Y-axis design
- Big tool magazines to reduce setup time (24 tools)
- C axis in main and sub spindle
- Mitsubishi M830 standard (Option. Fanuc)



# Remarkable pieces require a special machine

The new S32 delivers successful medical machining solutions for a wide range of products, This field continues to grow in complexity parts and new S32 help to achieve any challenge. Whether taking on titanium, chrome, stainless steel or extreme precision of micromachining, the S32 fulfills the engineering solutions for one-process manufacturing.

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## Axis movement

The S32 is mounted on a 75 degrees one-piece casting, this allow have extra wide hardened and linear ways to assure the rigidity and accuracy.

## Mitsubishi Control

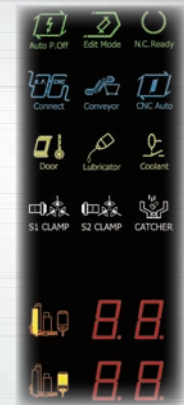


S32 is equipped with a 15 inch vertical display with a two-split multi-window screen. Home application in the lower half can freely be customized.



## LED Extended display

Easy monitor status of the machine.





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# Complex, Fast, Accurate parts done in one machine

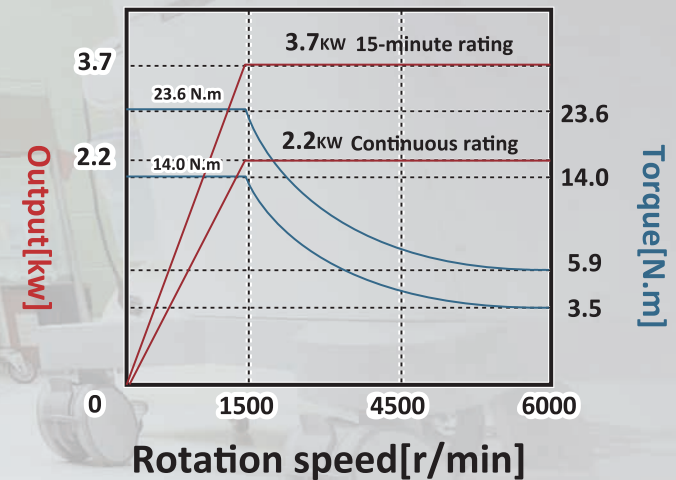
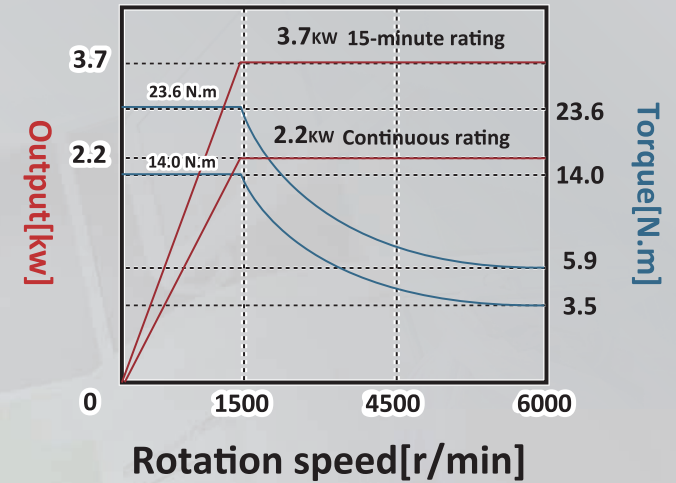
## Sub-Spindle

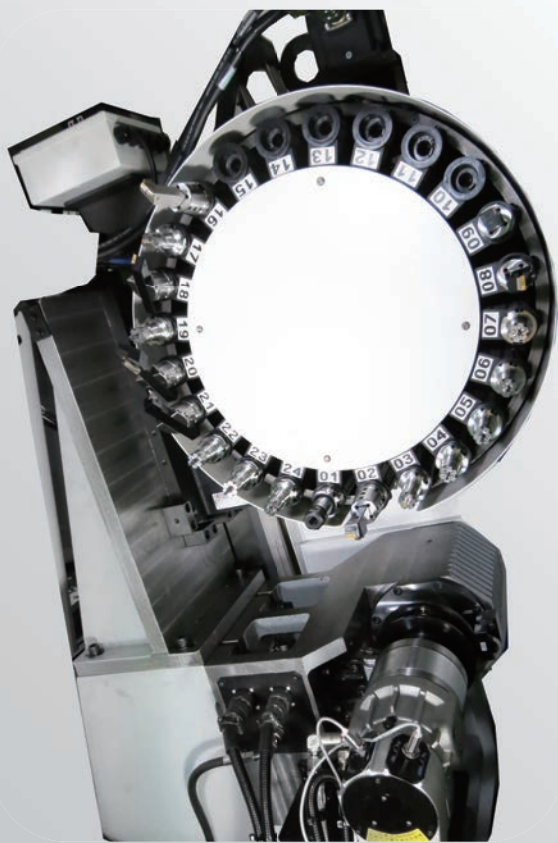
Built-in motor provides the precision and accurate for every parts need.



## Main Spindle

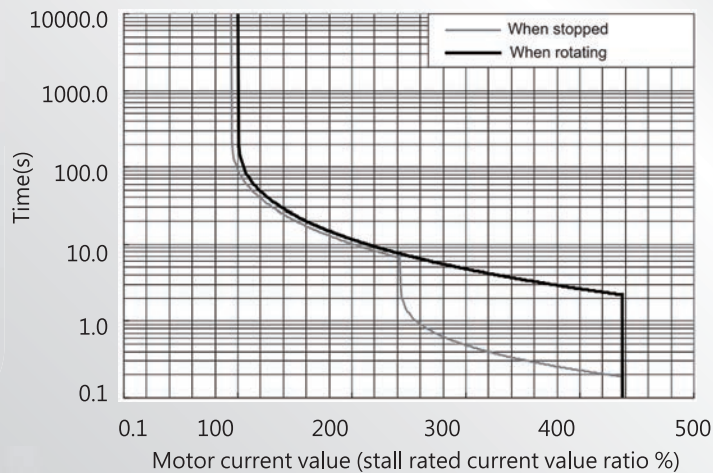
Collect chuck or Jaws give you the flexibility need and the built-in spindles give you the precision and rigid.





Tool Spindle

# Easy setup for complex parts



## ATC System

In the medical area, you combine several cutting processes, including turning, milling, drilling, and tapping ; in one machine you need quick and precision; The new S32 offer you 24 tools for achieving high accurate application for complex parts.

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## Tooling System



Extra 6 I.D Tools help you to achieve special parts and reduce 60% with the simultaneously machining.

# Accurate, Flexible, Fast

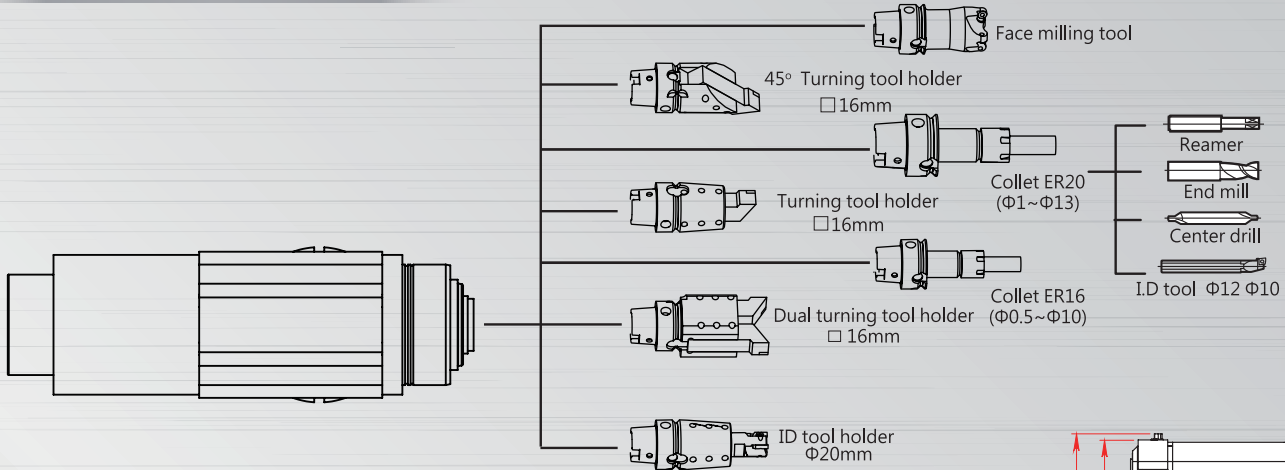
Tool spindle with X-axis travel (+/-400mm) and B-axis rotation (0-190 degree)



# Tooling Specification

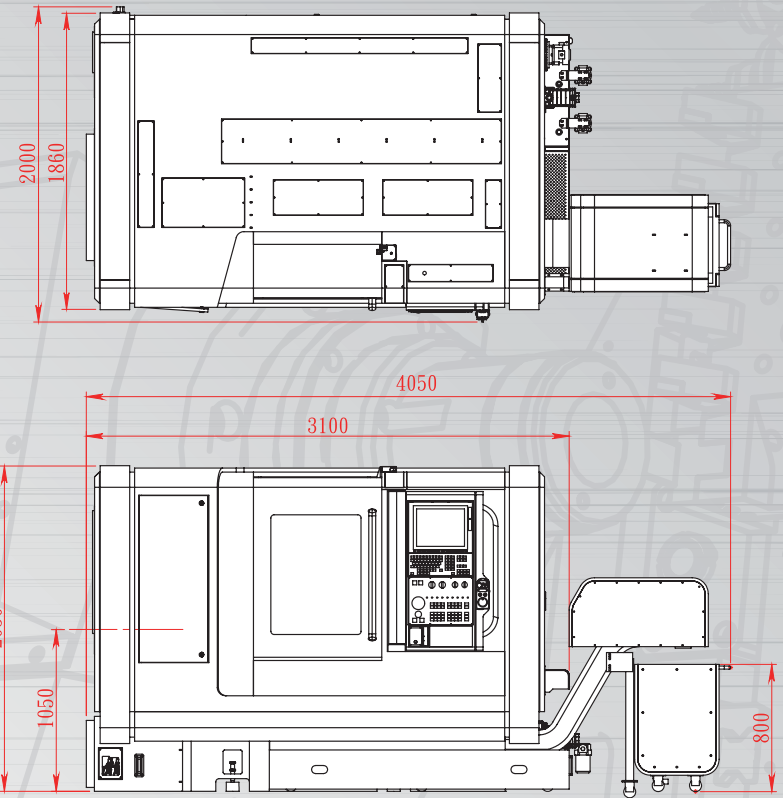
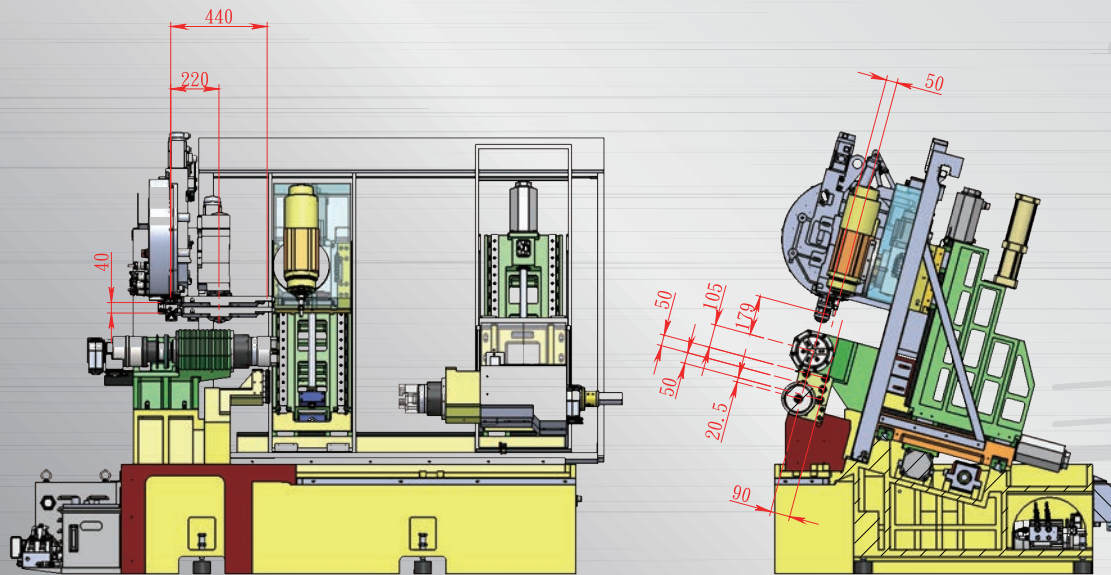


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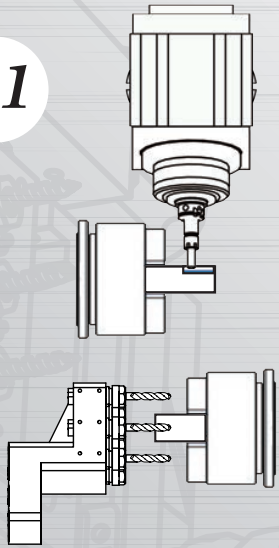
# Machine Dimension

# Interference Drawing



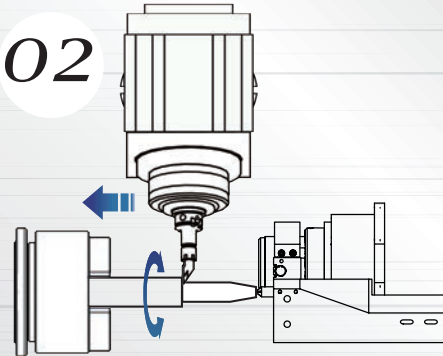
# Machining Applications

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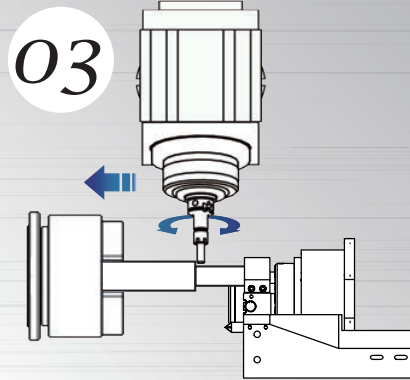
Twin spindles synchronize machining

02



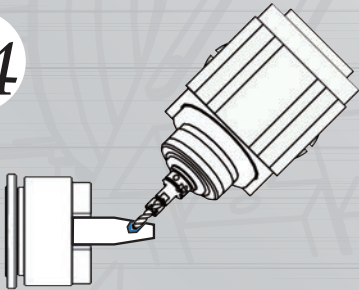
Long work-piece machining

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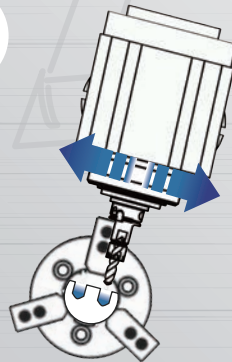
Live tool milling

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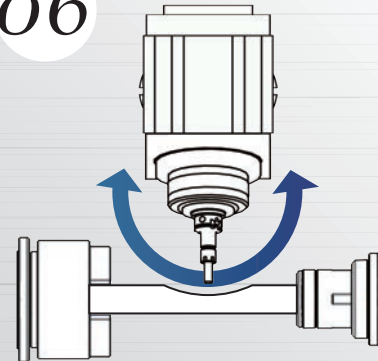
Tapping or drilling by free angle B axis

05



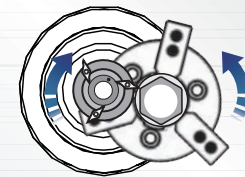
Off-center machining

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B axis Angular Milling

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Polygon Generating Cutting

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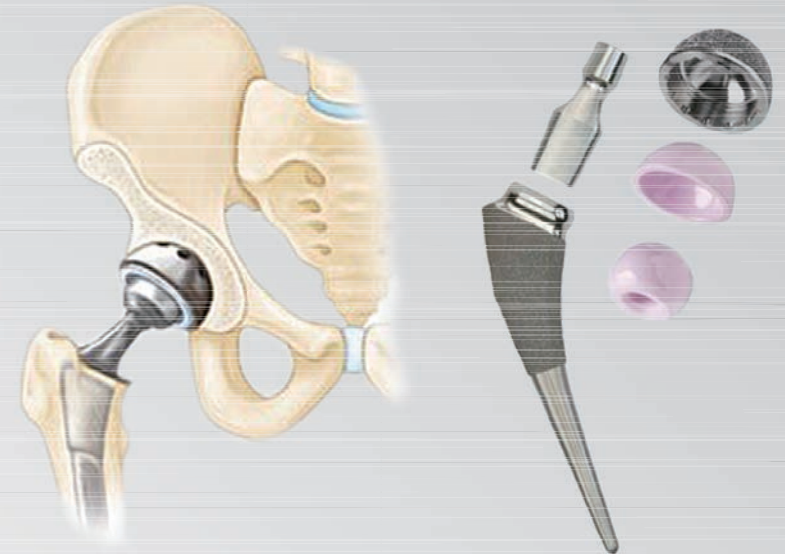


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Specification

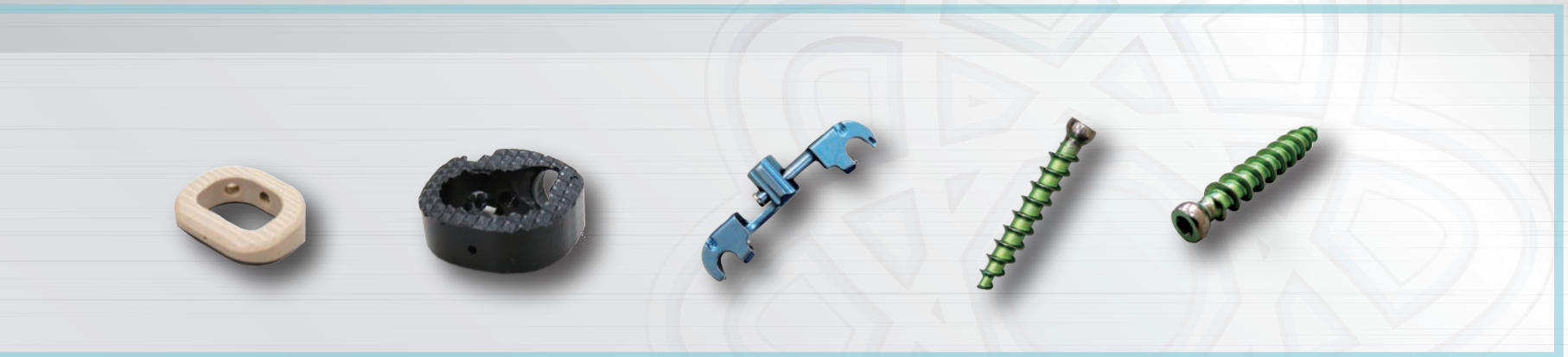
Machine Model	S-32 ATM	S-42 ATM	
Mitsubishi controller	M830S	M830S	
Swing over bed	400mm	400mm	
Swing over cross slide	250mm	250mm	
Max. working dia	169mm	169mm	
Max. Bar working dia	32mm	42mm	
Main spindle	Max. turning length	350mm(OD Turn) / 140mm(Drill)	340mm(OD Turn) / 130mm(Drill)
	Collet chuck type	KK5-173E42B / N206A5 (6-inch)	KK5-173E42B / N206A5 (6-inch)
	Nose	ISO(DIN) A2-5	ISO(DIN) A2-5
	Spindle bore	33mm	43mm
	Speed	6000 rpm	6000 rpm
	Spindle motor	Built-in spindle 3.7kw	AC spindle 11kw
	Max. Bar working dia	32mm	42mm
	Max. turning length	230mm(OD Turn) / 55mm(Drill)	230mm(OD Turn) / 55mm(Drill)
	Collet chuck type	KK5-173E42B / N205A5 (5-inch)	KK5-173E42B / N205A5 (5-inch)
	Nose	ISO(DIN) A2-5	ISO(DIN) A2-5
Sub spindle	Spindle bore	33mm	33mm
	Speed	6000rpm	6000rpm
	Spindle motor	Built-in spindle 3.7kw	Built-in spindle 3.7kw
	Accessory 1	φ 16 Tapper	φ 16Tapper
	Accessory 2	Gripper(hydraulic)	Gripper(hydraulic)
	Max. speed	12000rpm	12000rpm
	Spindle type	HSK-T40	HSK-T40
	Spindle motor	Built-in spindle 10kw	Built-in spindle 10kw
	Tool holding force	290kg	290kg
	Tool release force	450~500kg	450~500kg
Tool Spindle	Machining Cooling	Ring coolant	Ring coolant
	X1	420mm	420mm
	Y1	80 = ±40mm	80 = ±40mm
	Z1	400mm	400mm
	X2	420mm	420mm
	Y2	80 = ±40mm	80 = ±40mm
	Z2	510mm	510mm
	X1/Y1/Z1 axis motor	2.2 / 1.5 / 2.2 kw	2.2 / 1.5 / 2.2 kw
	X2/Y2/Z2 axis motor	2.2 / 1.5 / 2.2 kw	2.2 / 1.5 / 2.2 kw
	B axis	B axis Rotary	190° = ±95°
Least Command Unit		0.001°	0.001°
Repetition Accuracy		0.002°	0.002°
Motor		AC Servo 1.0kw	AC Servo 1.0kw
Tool Spec		HSK-T40	HSK-T40
ATC system	Tool Magazine Station	24	24
	Tool retract Travel	40mm	40mm
	Max. Tool Dia	φ 55 (φ 80 without adjacent tool)	φ 55 (φ 80 without adjacent tool)
	Max. Tool Weight	3kg	3kg
	Max. Tool Length	100 (From the surface of spindle)	100 (From the surface of spindle)
Tool Change Time	2.5 sec	2.5 sec	

Machine Model	S-32 ATM	S-42 ATM	
ATC system	Tool arm swing	505mm	505mm
	Motor	AC Servo 0.75kw	AC Servo 0.75kw
Gantry Tooling	Drill holder spec	ER20 / φ 20mm	ER20 / φ 20mm
	Tool Quantity	6	6
	Max. Pressure	10MPa (100 kg/cm <sup>2</sup> )	10MPa (100 kg/cm <sup>2</sup> )
Lubrication	Flow	20cc/min	20cc/min
	Capacity	1L	1L
	Oil Spec	no. 0~00 grease	no. 0~00 grease
	Hydraulic motor	1HP	1HP
Hydraulic system	Hydraulic pressure	50kg/cm <sup>2</sup>	50kg/cm <sup>2</sup>
	Tank Capacity	35L / 30L	35L / 30L
	Coolant tank capacity	240L	240L
Coolant System	Coolant Motor type	2KW + 2KW	2KW + 2KW
	Pressure	5BAR + 25BAR	5BAR + 25BAR
	Length	3800mm (Chip CVY.) / 2900mm	3800mm (Chip CVY.) / 2900mm
Machine Size	Width	2200mm	2200mm
	Height	2050mm	2050mm
	Weight	4350kg	4350kg





# Applications

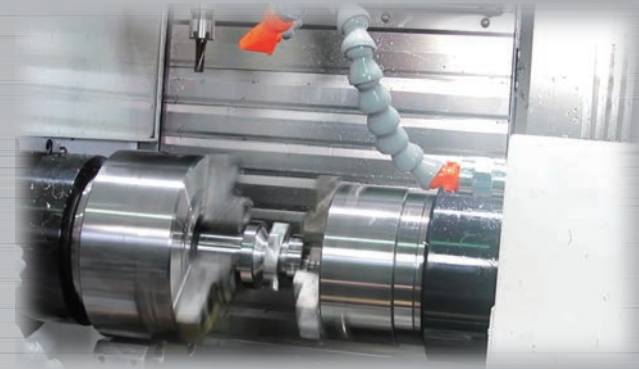
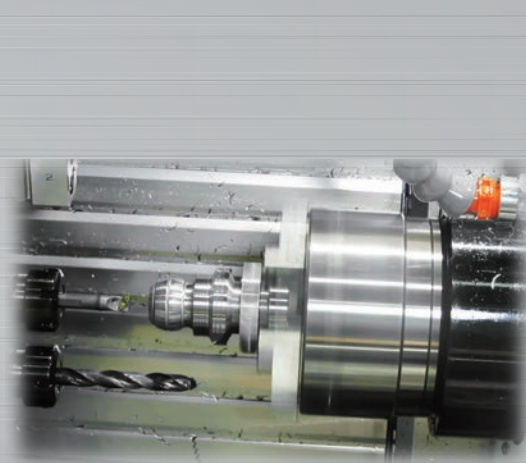
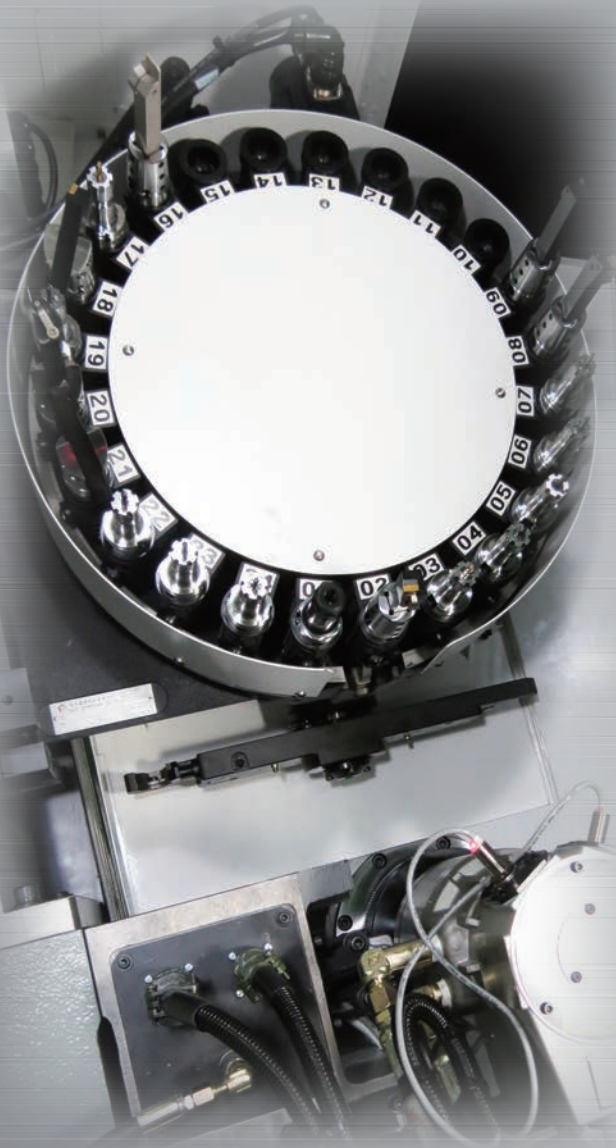


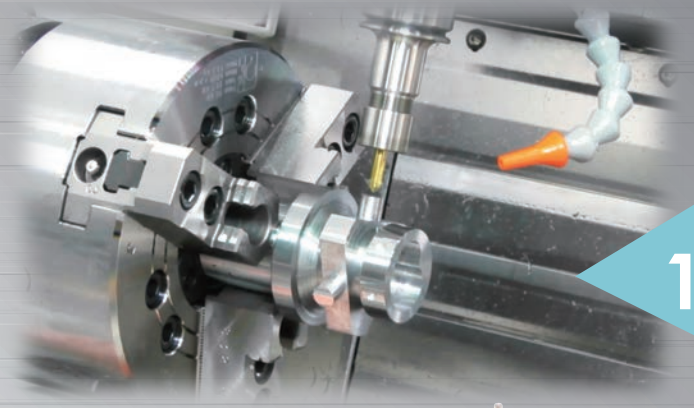
ATC System with 24 Tools

machining

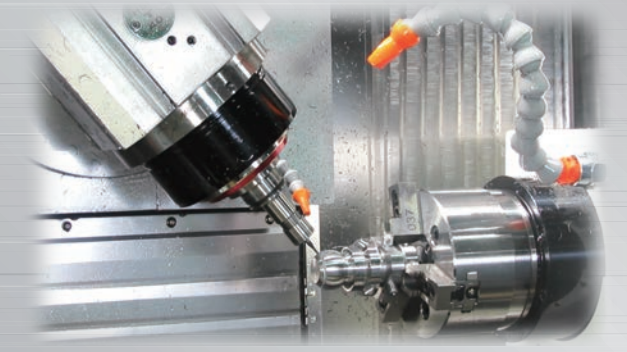
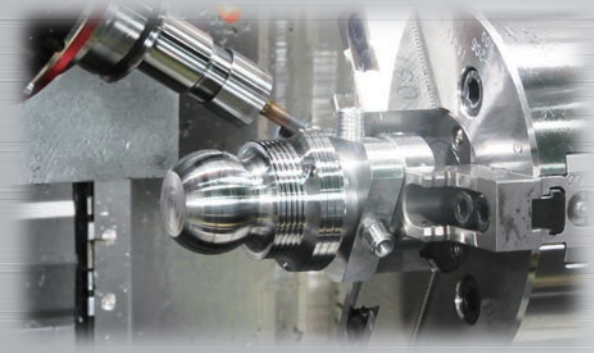


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*the art of turning*



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