

# CNC

## MACHINE TOOLS

### MANUFACTURING | 2017 **S32 ATM**

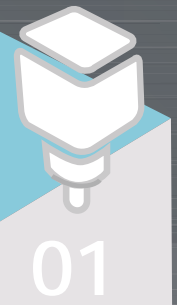
*Intention to make Engineering Technology*



*the art of turning*

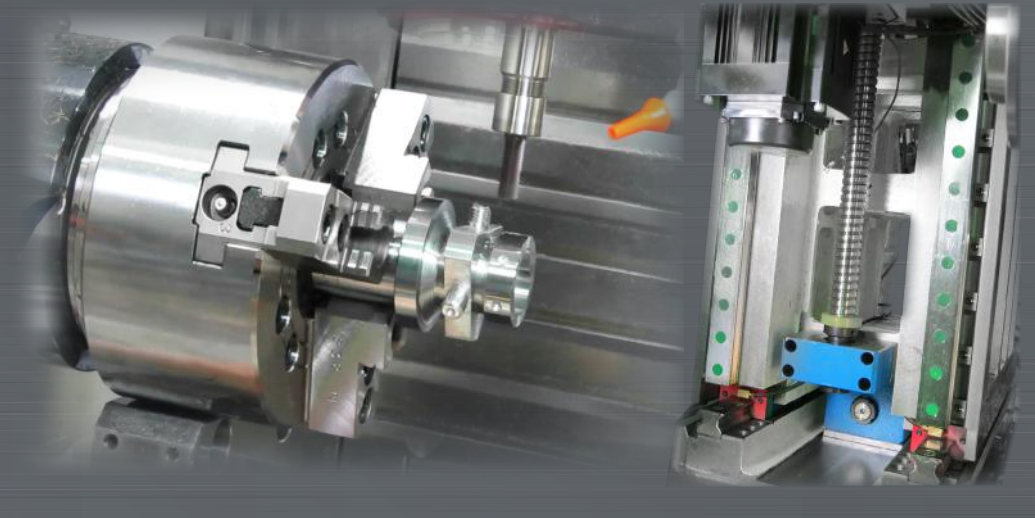






# S32 ATM

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.



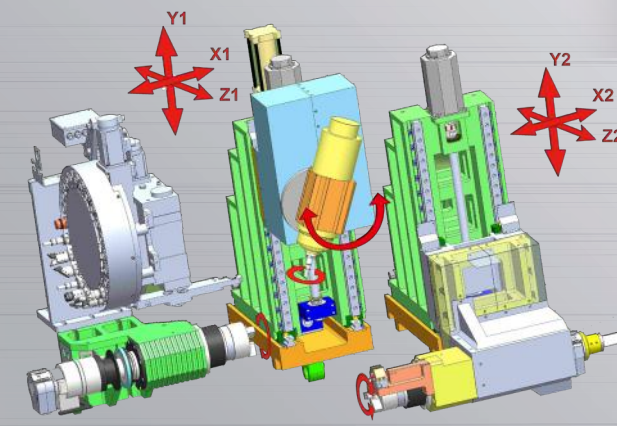
## Every new challenger Every accurate part S32 is your best partner

- 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.



### Axis movement

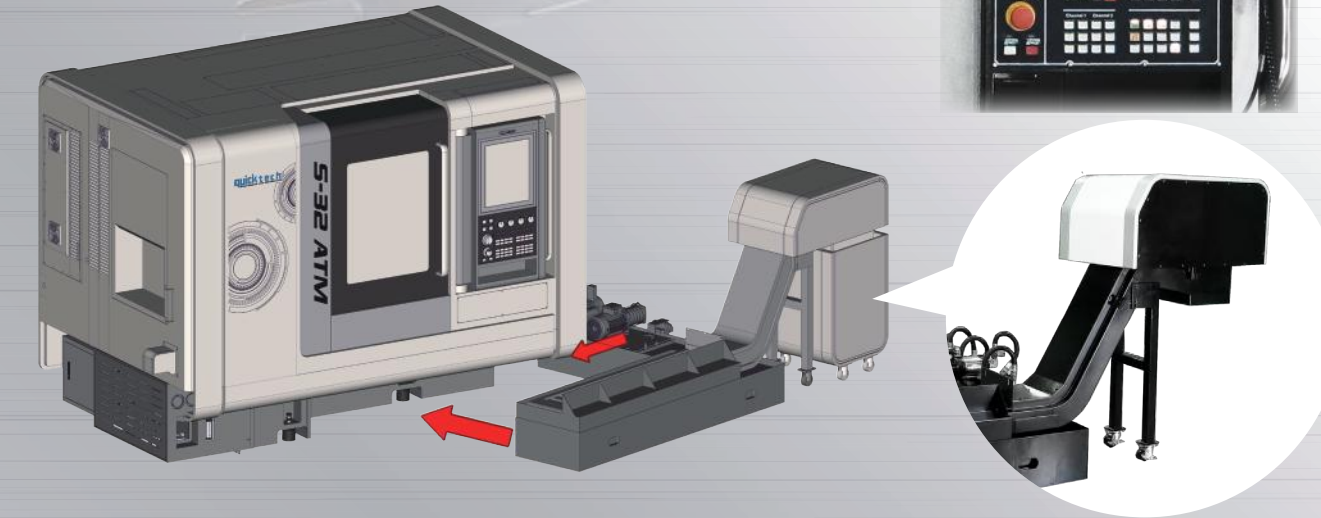
The S32 is mounted on a 75 degrees one-piece casting, this allow have extra wide hardened and linear ways to assure the rigidity and accuracy.

### Mitsubishi Control



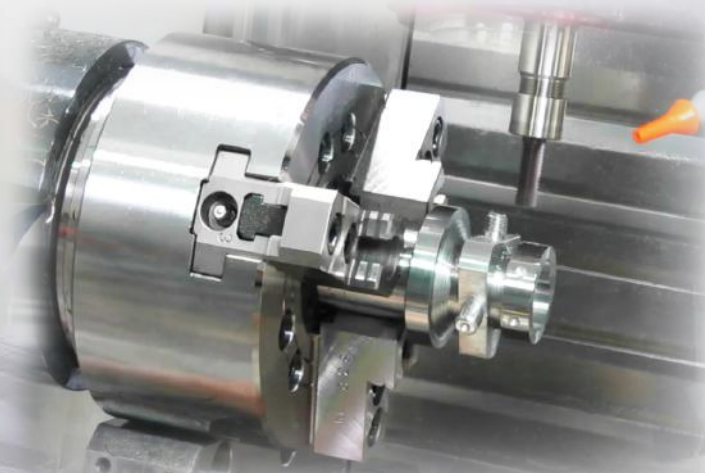
S32 is equipped with a 15 inch vertical display with a two-split multi-window screen.

Home application in the lower half can freely be customized.





# Complex, Fast, Accurate parts done in one machine



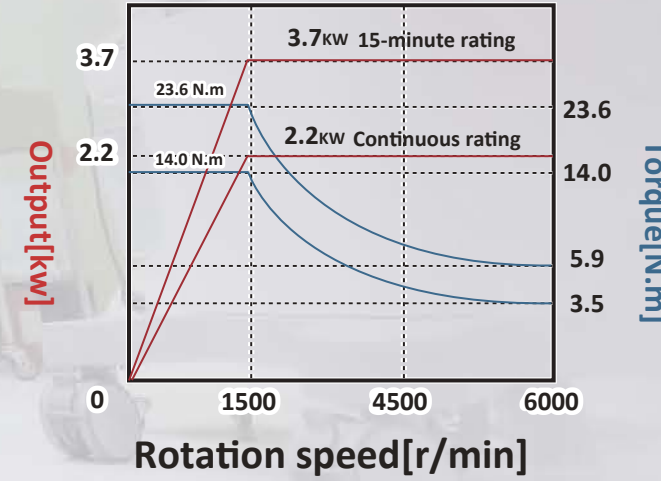
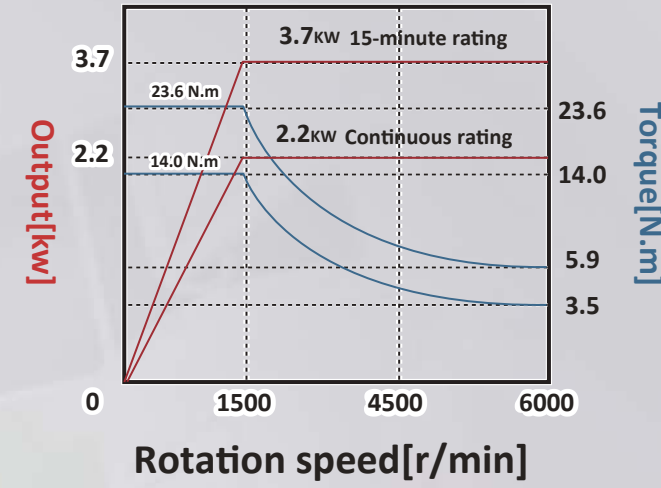
## Sub-Spindle

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

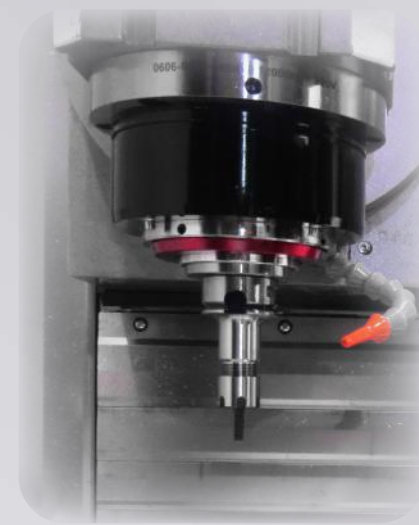


## Main Spindle

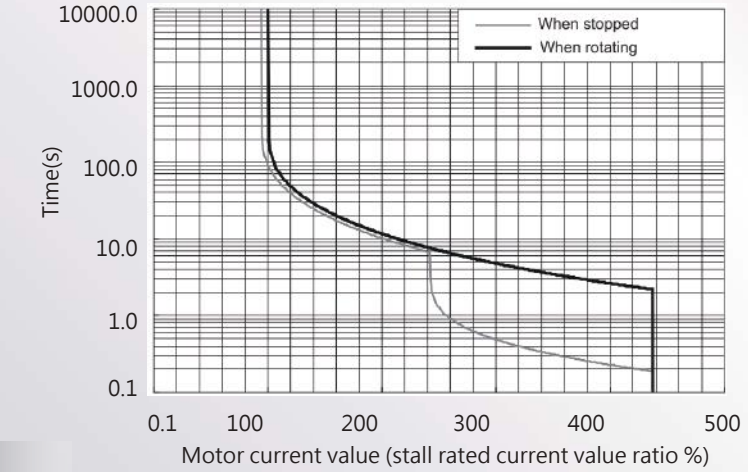
Collect chuck or Jaws give you the flexibility need and the built-in spindles give you the precision and rigid.



## Tool Spindle



# Easy setup for complex parts



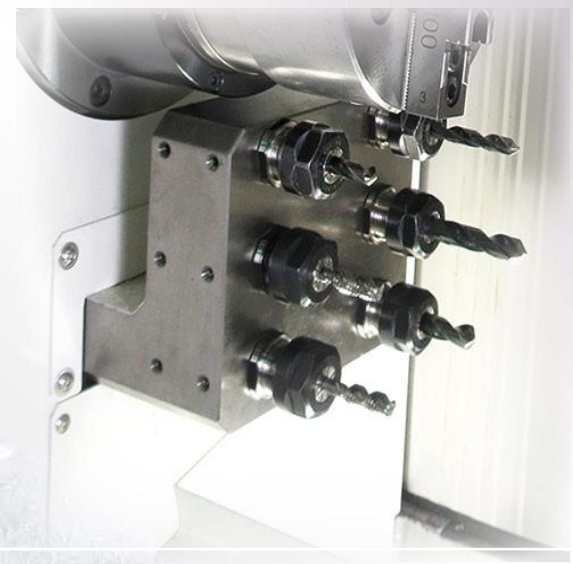
# Accurate, Flexible, Fast

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

## 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.

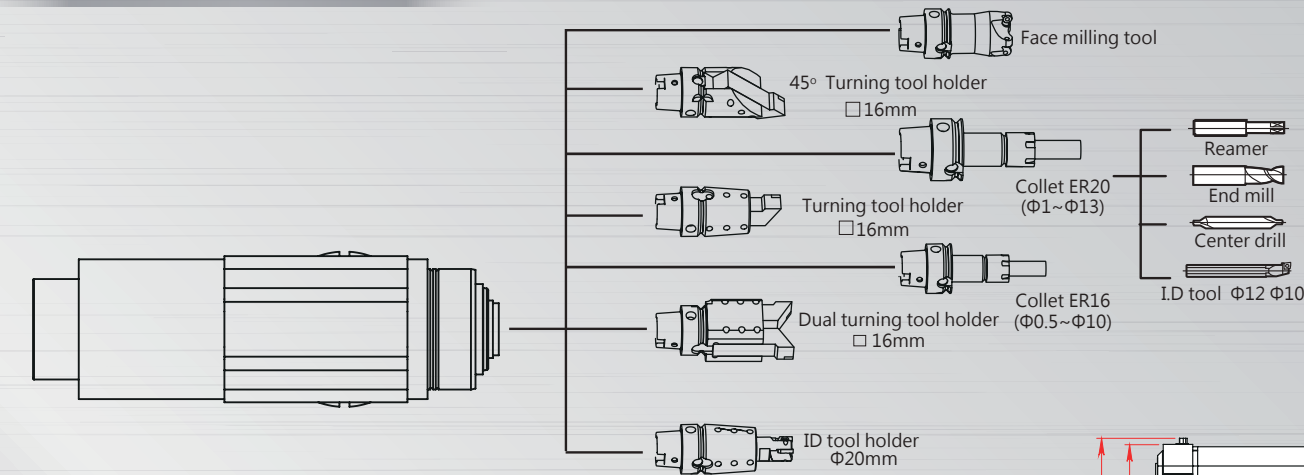
## Tooling System



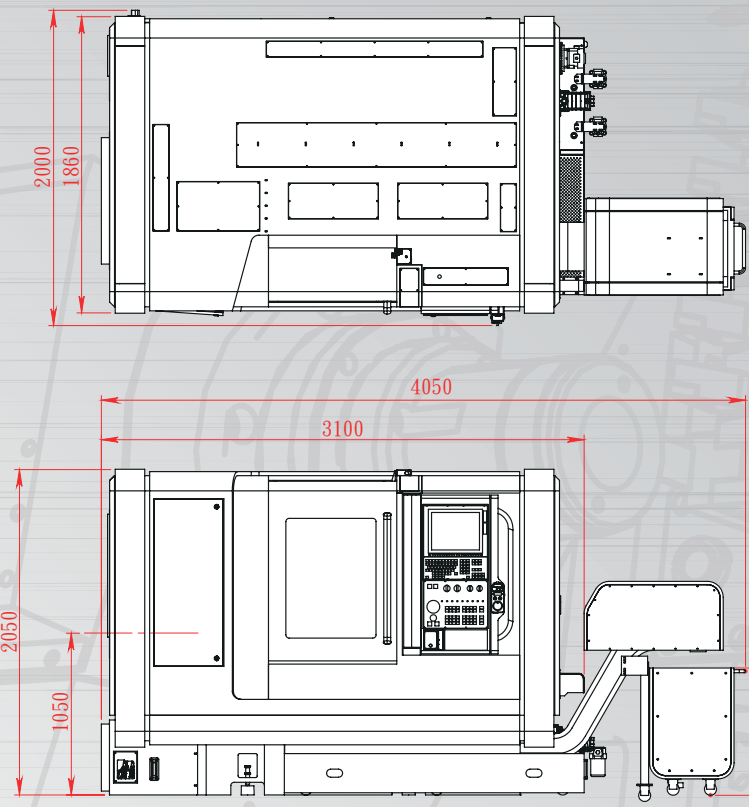
Extra 6 I.D Tools help you to achieve special parts and reduce 60% with the simultaneously machining.



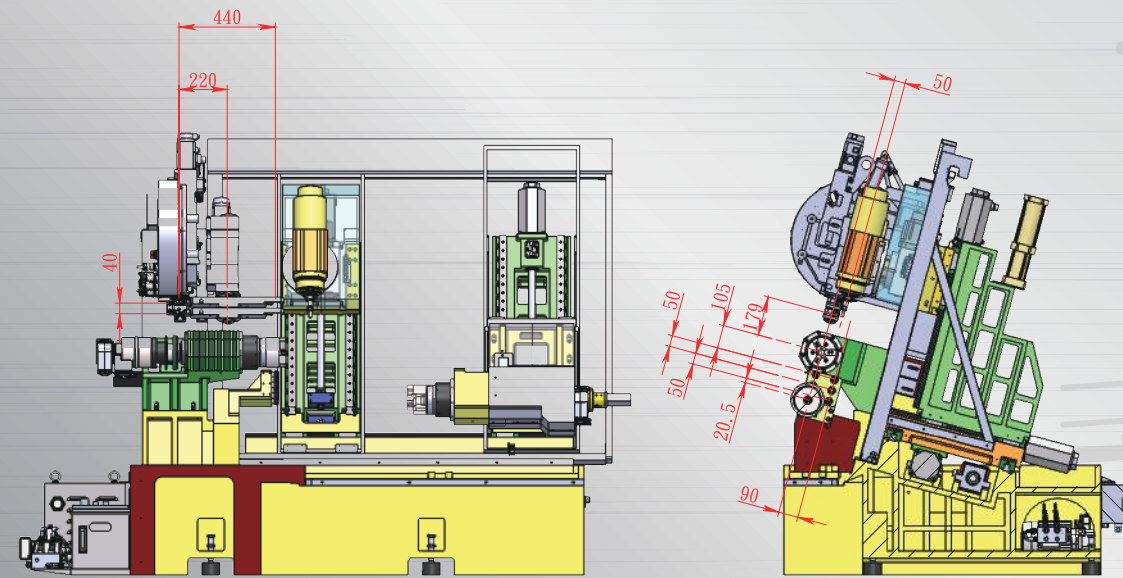
### Tooling Specification



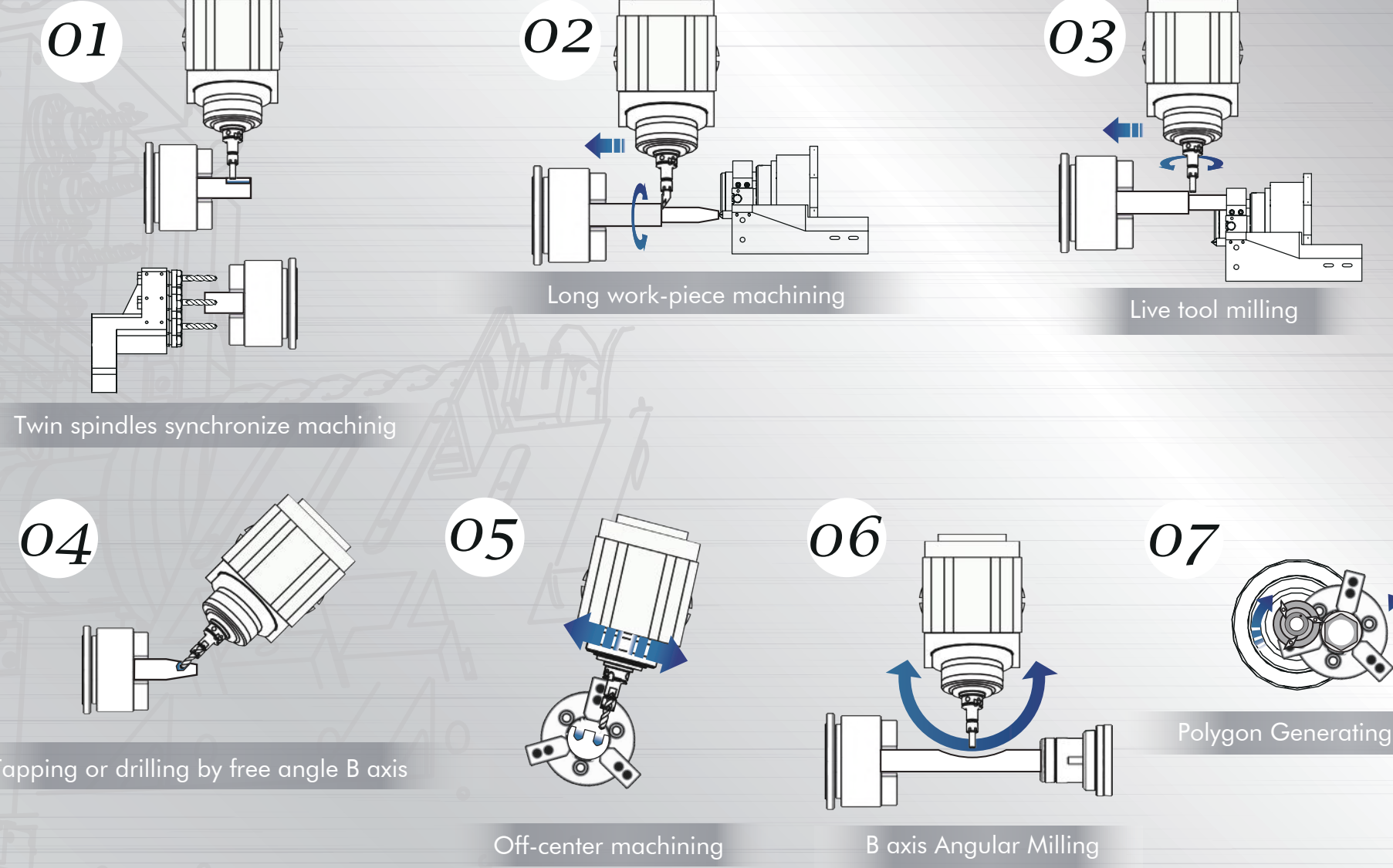
### Machine Dimension



### Interference Drawing



### Machining Applications



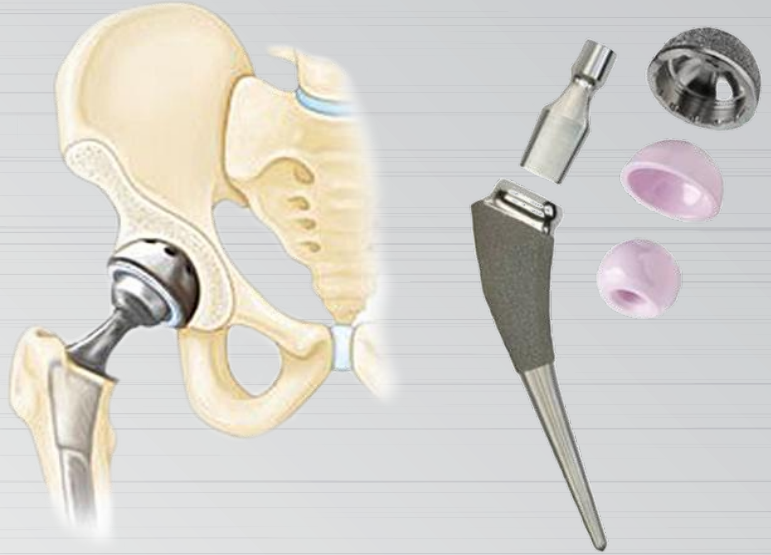
Specification

Advanced Turn Mill

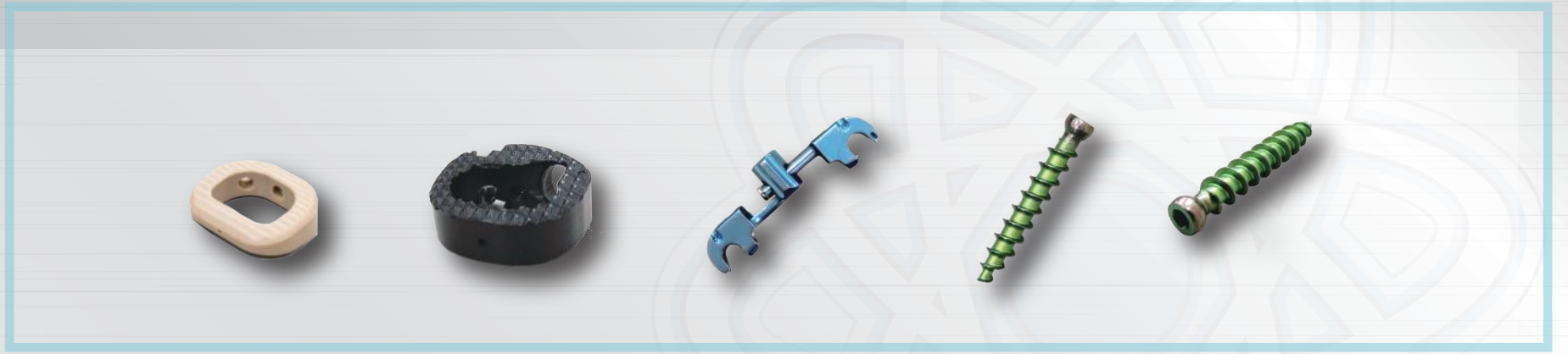
Machine Model		S-32 ATM
Controller	Controller	Mitsubishi M830S
	Spindle Max. Bar Working Dia	30mm
Spindle Capacity	Spindle Max. Turning Length.	400.0mm(OD Turning) / 40.0mm(ID Turning)
	Spindle Collet Chuck Type	KK5-173E42B/N205A5
	Spindle Nose	ISO (DIN) A2-5
	Spindle Bore	37.0mm
	Spindle Speed Range	6000rpm
Sub-Spindle Capacity	Spindle Motor	Built-in spindle 3.7KW
	Spindle Max. Bar Working Dia	30.0mm
	Spindle Max. Turning Length.	300.0mm(OD Turning)/55.0mm(ID Turning)
	Spindle Collet Chuck Type	KK5-173E42B/N205A5
	Spindle Nose	ISO (DIN) A2-5
	Spindle Bore	37.0mm
	Spindle Speed Range	6000rpm
	Spindle Motor	Built-in spindle 3.7KW
	Optional Accessory 1	φ 12 quill
	Optional Accessory 2	Work-piece supporting (pressure)
Tool Spindle	Spindle Speed Range	10000 rpm
	Spindle Type	HSK-40T
	Spindle Motor	Built-in spindle 10KW
	Tool Holding Force	650kgf
	Tool Release Force	65kgf
	Machining Cooling	Loop cycle coolant head
Travel & Feed	X1 axis Travel	200 mm (400 mm)
	Y1 axis Travel	100 mm
	Z1 axis Travel	440 mm
	X2 axis Travel	200 mm
	Y2 axis Travel	100 mm
	Z2 axis Travel	500 mm
	X1/Z1/Y1 Axis Servo motor	X1=2.2KW,Z1=2.2KW,Y1=1.5KW
X2/Z2/Y2 Axis Servo motor	X2=2.2KW,Z2=2.2KW,Y2=1.5KW	
B Axis	B axis Rotary	190°
	B axis Positioning Accuracy	0.001°
ATC System	Motor	AC Servo Motor 1.0kw
	ATC Model	DKS30-24T
	Holder Type	HSK-40T
	Holder Number	24PCS
	Tool Change Time	1.3 Sec
	Tool Arm Swing	Radius 220mm
	Tool Retract Travel	40mm
	Motor	AC Servo Motor 0.75kw

Specification

Machine Model		S-32 ATM
Gantry Tooling	Boring Bar	ER20 (ER25)
	Tool Number	6PCS
Lubrication	Max. Pressure	10(100) MPa (kg/cm <sup>2</sup> )
	Quantity	20 cc/min
	Tank Capacity	1L
Main Hydraulic System	Lubrication type	No. 0-00
	Motor	24V DC
	Hydraulic Motor	1HP
Sub Hydraulic System	Hydraulic Pressure	30 kg/cm <sup>2</sup>
	Tank Capacity	60L
	Hydraulic Motor	1HP
Coolant System	Hydraulic Pressure	30 kg/cm <sup>2</sup>
	Tank Capacity	30L
Machine Size	Coolant Tank Capacity	240 L
	Coolant Motor Type	2 KW
Machine Size	Pressure	5 BAR / 25 BAR
	Machine Length	4050mm (with chip conveyor) 3100mm (without chip conveyor)
	Machine Width	2000mm
	Machine Height	2050mm
	Machine Weight	4350kg



Applications

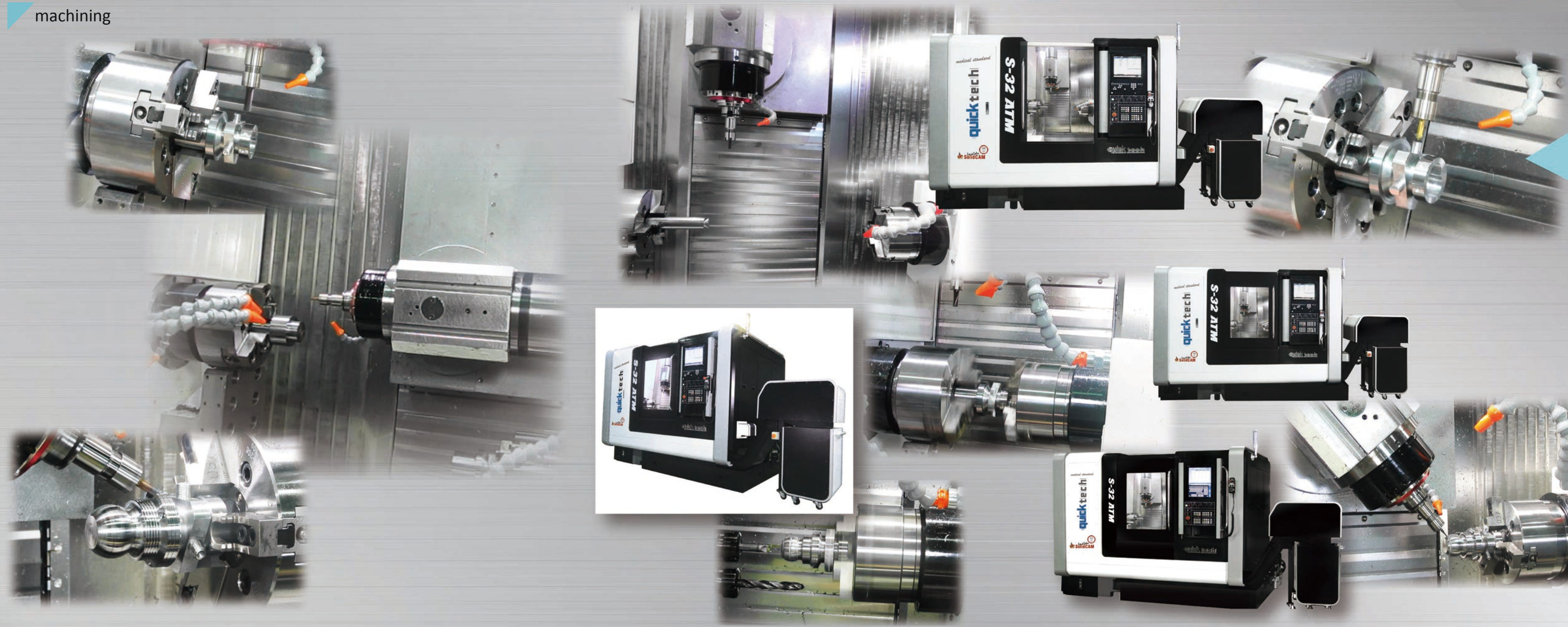
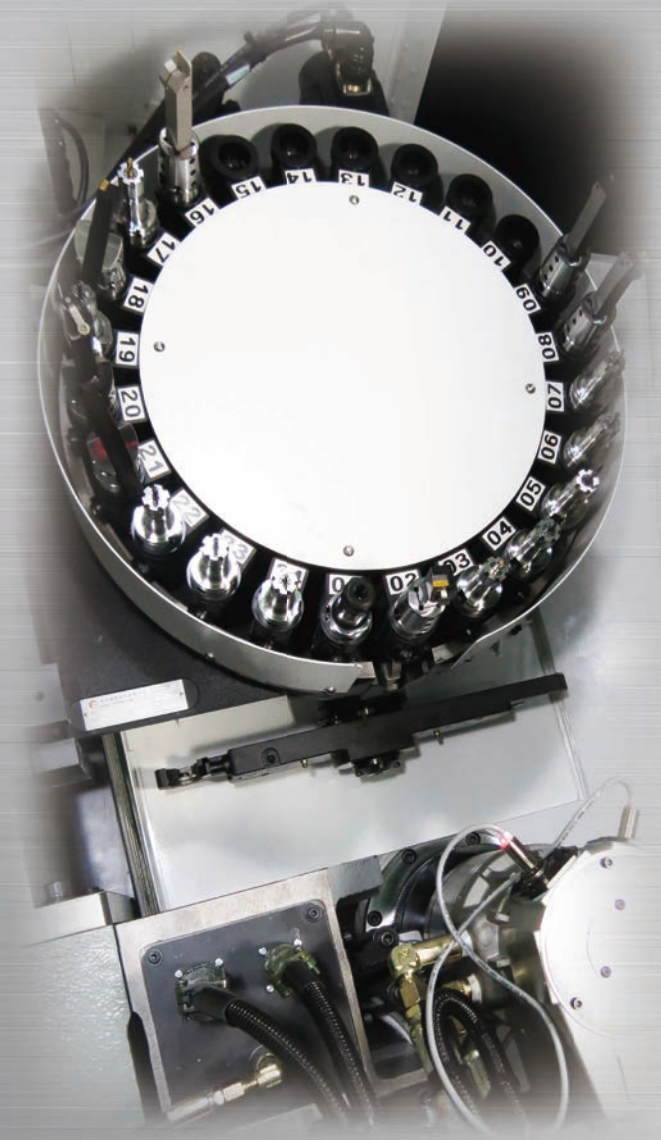




ATC System with 24 Tools

machining

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