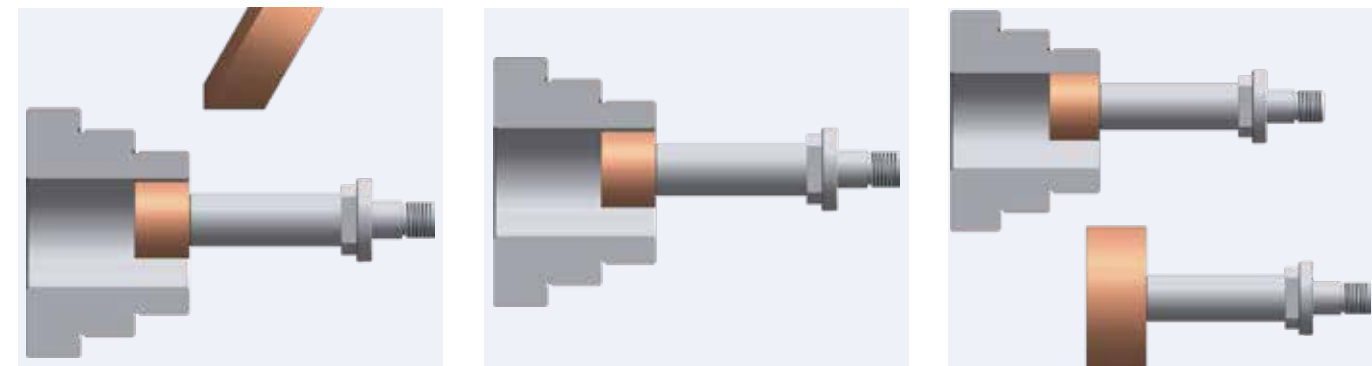


# CNC Precision Hybrid

## Multi-Function Tool Magazine

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# Multi-Function Tool Magazine EGM-350T CNC

## Features

EGM350 series CNC control systems are available for MITSUBISHI\* or FANUC\*\* control.

It also can be operated with graphic conversational programming (Option) Therefore, it eliminates the need for G-code programing, and is easy to learn and use for grinding operation even for beginners. (\*MITSUBISHI M80 with touch screen / \*\*FANUC Oi-TF Plus)

Low-gravity base structure and operation panel are designed to meet ergonomic requirement.

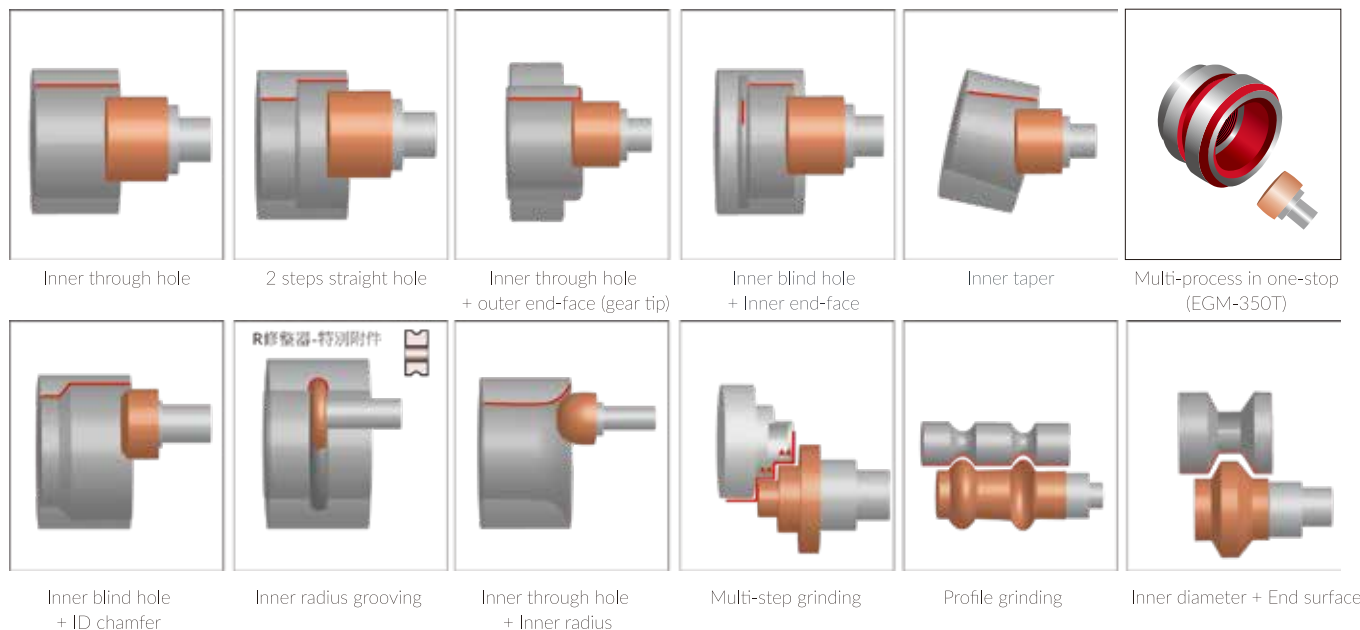
Combinations of grinding operations for internal, external, end-face, groove, radius, internal & external step, and taper grinding can be executed in one chucking. Thus, it greatly increases grinding efficiency and also ensures better concentricity and accuracies of the ground parts.

The spindle we choose is BBT30 built-in type ATC spindle with 7.5kw and 30,000RPM.

The tool magazine is driven by precision hydraulic slide, and can be equipped up to 8 tools in max., according to the size of the wheel.



## Standard grinding cycles and multi-steps graphic conversational functions.



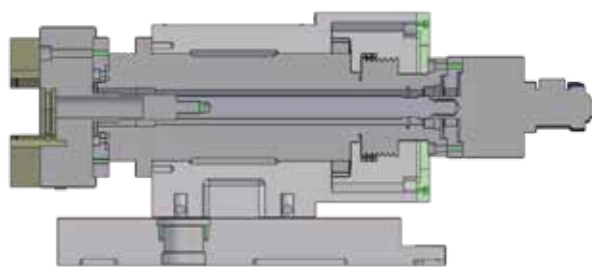
## Specification

Model		EGM-350TCNC	
General	Max. grinding ID	mm	ø300
	Max. grinding OD	mm	ø400
	Swing over workhead	mm	ø500
	Max. grinding depth	mm	260
	Max. weight of workpiece	kg	50
	Max. length of workpiece	mm	300
	Type of workhead	-	Dual independent wheelhead
	3-Jaw chuck	-	Manual-8"/10"(opt.)
Workhead (X Axis)	Swiveling angle range	deg	+15°~ -5°
	Manual travel distance (toward Z axis)	mm	250
	Spindle speed	rpm	0~1000(Variable speed)
	Servo motor rated power	kW	1.8(F)/2.2(M)
Grinding	OD grinding wheel size	mm	ø100
Wheelhead (Y Axis)	ID grinding wheel size	mm	ø25
	Max. spindle speed	rpm	30,000 (Build-in-spindle)
	Spindle motor/ max. torque	kW/Nm	7.5 / 6
Tool Magazine (Y Axis)	Tool holder	-	BBT30
	Tool Magazine capacity	Qty.	8
	Max. tool lenght	mm	100
Grinding wheelhead (Z Axis)	Max. tool weight	kg	3
	OD grinding wheel size	mm	ø150
	ID grinding wheel size	mm	ø90
X Axis	Max. spindle speed	rpm	8,000(std.)
	Spindle motor/ max. torque	kW/Nm	3.75 / 13
	Travel	mm	450
	Rapid feed rate	m/min	8
Y Axis	Linear scale resolution	um	0.05
	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2 (M)
	Travel	mm	350
Z Axis	Rapid feed rate	m/min	8
	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2 (M)
	Travel	mm	350
Motor	Rapid feed rate	m/min	8
	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2(M)
Machine	Hydraulic motor	kW	0.75
	Coolant pump	kW	0.37+0.18
	Net weight	kg	5800
	Gross weight	kg	6300
	Packing size (L x W x H)	mm	3350X2250X1950

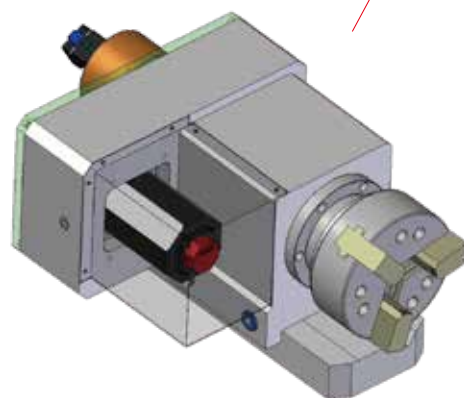
# Features



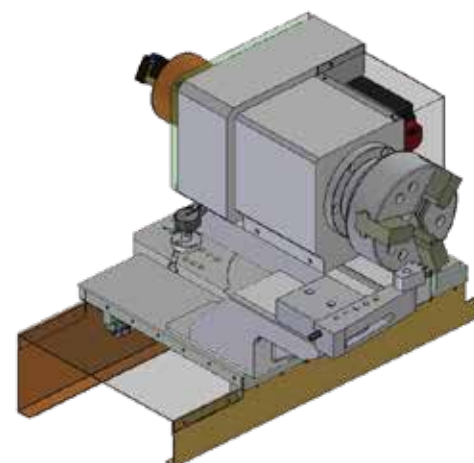
Complete one piece cartridge spindle can avoid the eccentricity of spindle housing and reduces the thermal growth, thus increase spindle life.



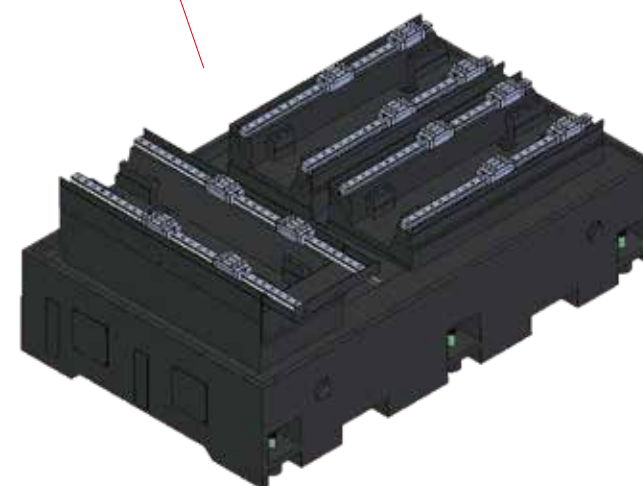
We Use the original C axis to drive and carry BT spindle. The spindle head design places the center of gravity at the rear portion to help balancing the whole spindle mechanism to increase spindle accuracy and loading capacity.



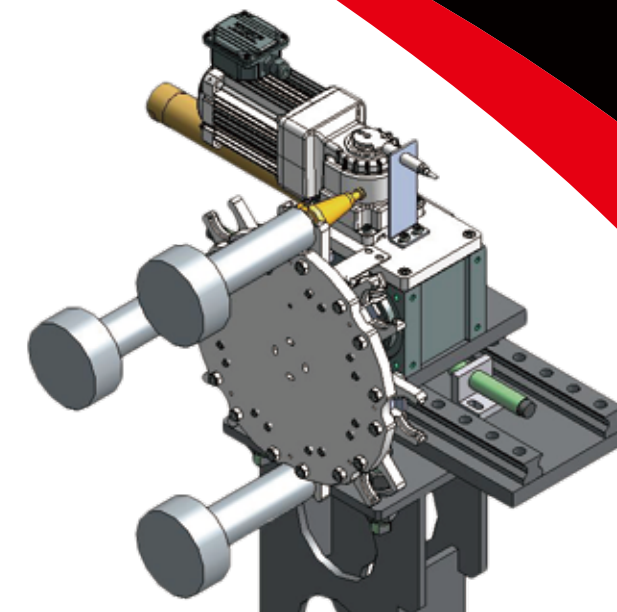
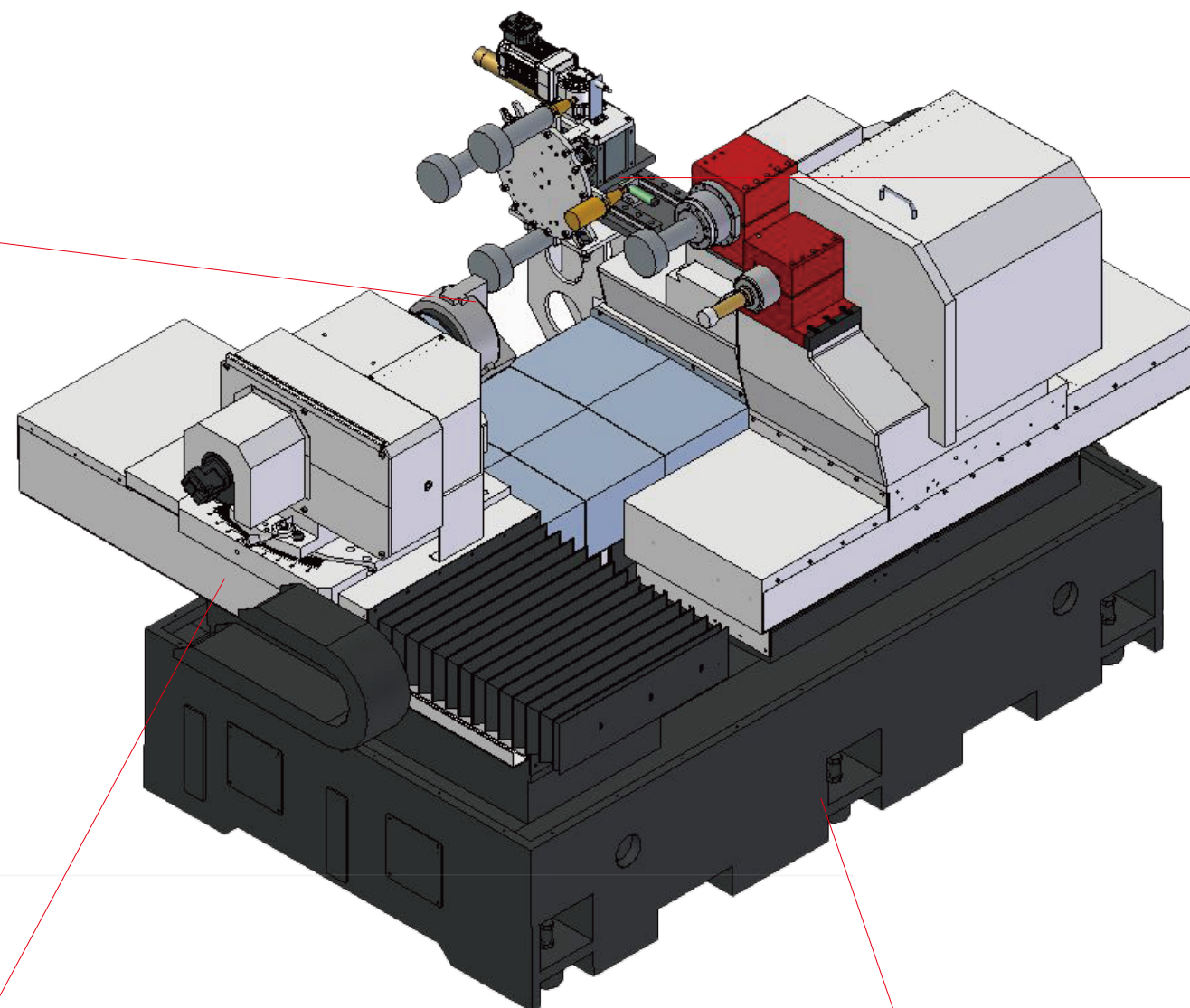
Spindle driven by servo motor offers optimum speed and torque performance.



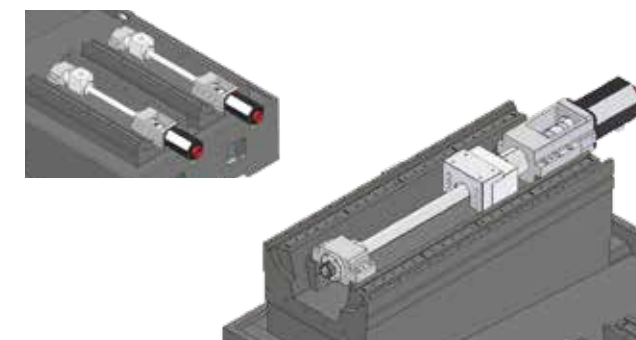
X axis lower slide design offers easy adjustment of the workhead for grinding parts with different lengths.



Low-gravity base structure, with slant bed design for better coolant draining and grinding swarf removal.



The spindle we choose is BBT30 built-in type ATC spindle with 7.5kw and 30,000RPM. The tool magazine is driven by precision hydraulic slide, and can be equipped up to 8 tools in max., according to the size of the wheel..



C1 grade precision ball screw with large leading pitch is used to achieve high accuracy.