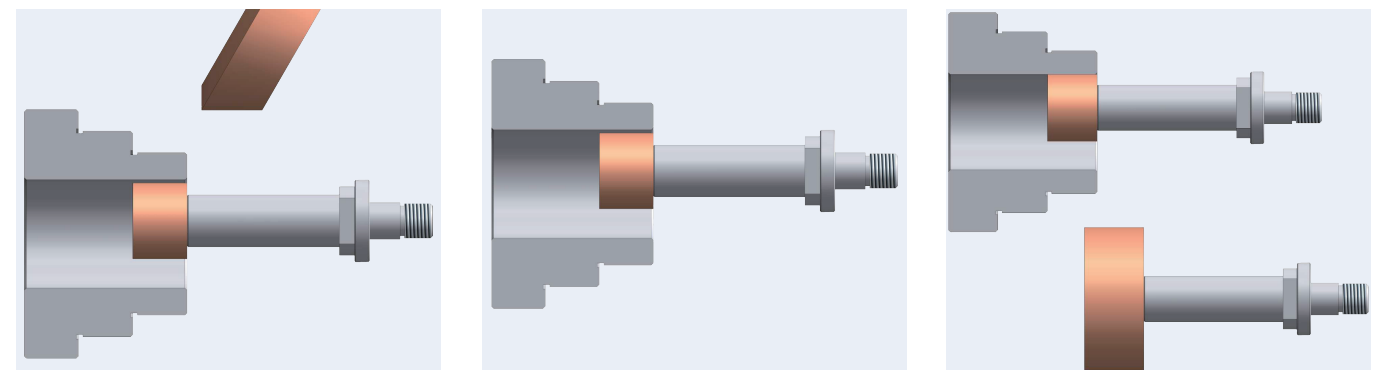




# CNC Precision Hybrid

## 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 0i-TF Plus)

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

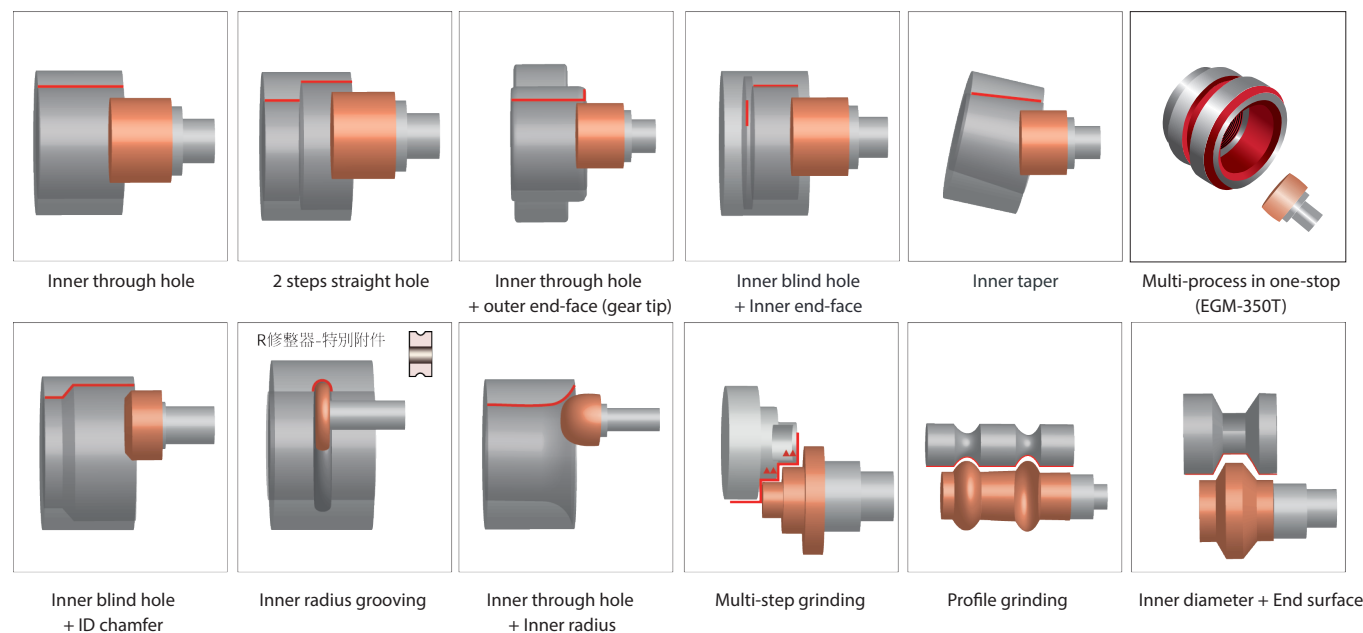
Combinations of grinding operations for internal, external, end-face, groove, radius, internal & external step, and taper grinding can be executed in one chucking. Thus, it greatly increases grinding efficiency and also ensures better concentricity and accuracies of the ground parts.

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

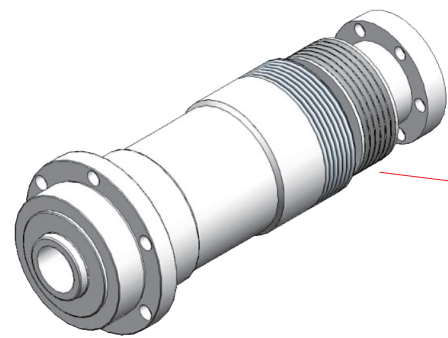


Standard grinding cycles and multi-steps graphic conversational functions.

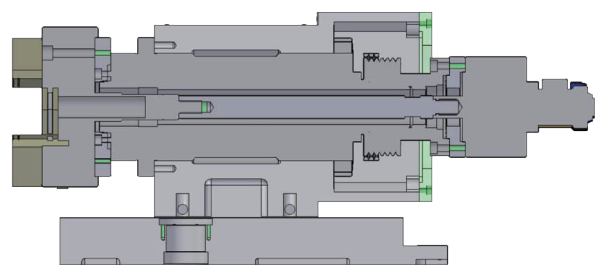


## Specification

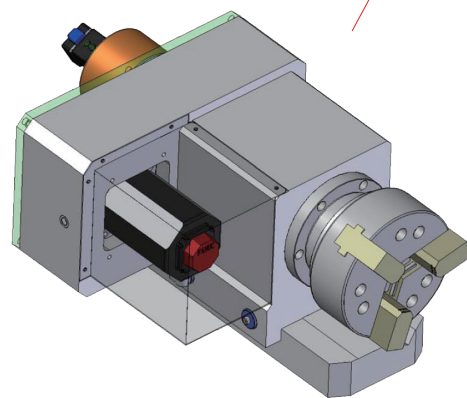
Model		EGM-350T CNC	
General Capacity	Max. grinding ID	mm	φ300
	Max. grinding OD	mm	φ400
	Swing over workhead	mm	φ500
	Max. grinding depth	mm	260
	Max. weight of workpiece	kg	50
	Max. length of workpiece	mm	300
	Type of workhead	Dual independent wheelhead	
Workhead (X Axis)	3-Jaw chuck	Manual-8"/10"(opt.)	
	Swiveling angle range	deg	+15° ~ -5°
	Manual travel distance (toward Z axis)	mm	250
	Spindle speed	rpm	0~1,000(Variable speed)
	Servo motor rated power	kW	1.8(F)/2.2(M)
Grinding wheelhead (Y Axis)	OD grinding wheel size	mm	N/A
	ID grinding wheel size	mm	φ100
	Max. spindle speed	rpm	30,000 (Build-in-spindle)
	Spindle motor/ max. torque	kW/Nm	7.5kW / 6Nm
Tool Magazine (Y Axis)	Tool holder	BBT30	
	Tool Magazine capacity	Qty.	8
	Max. tool length	mm	100
	Max. tool weight	kg	3
Grinding wheelhead (Z Axis)	OD grinding wheel size	mm	φ100
	ID grinding wheel size	mm	N/A
	End face grinding wheel Sub Axis(Opt.Z2)	mm	N/A
	Max. spindle speed	rpm	20,000(std.)
	Spindle motor/ max. torque	kW/Nm	3.75kW / 13Nm
X Axis	Travel	mm	420
	Rapid feedrate	m/min	8
	Heidenhain 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
Y Axis	Rapid feedrate	m/min	8
	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2 (M)
	Travel	mm	350
Z Axis	Rapid feedrate	m/min	8
	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2(M)
	Travel	mm	350
Motor	Hydraulic motor	kW	0.75
	Lube pump	kW	N/A
	Coolant pump	kW	0.37+0.18
Machine	Net weight	kg	5800
	Gross weight	kg	6300
	Packing size (L x W x H)	mm	3350X2250X1950



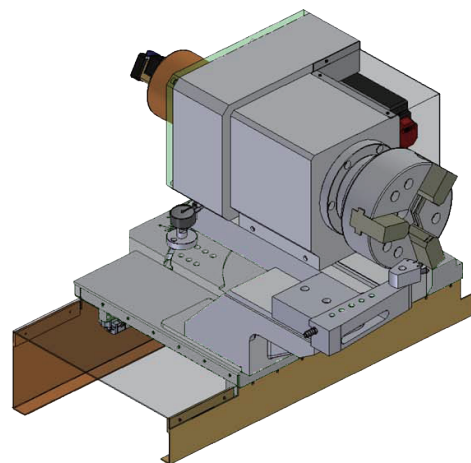
Complete one piece cartridge spindle can avoid the eccentricity of spindle housing and reduces the thermal growth, thus increase spindle life.



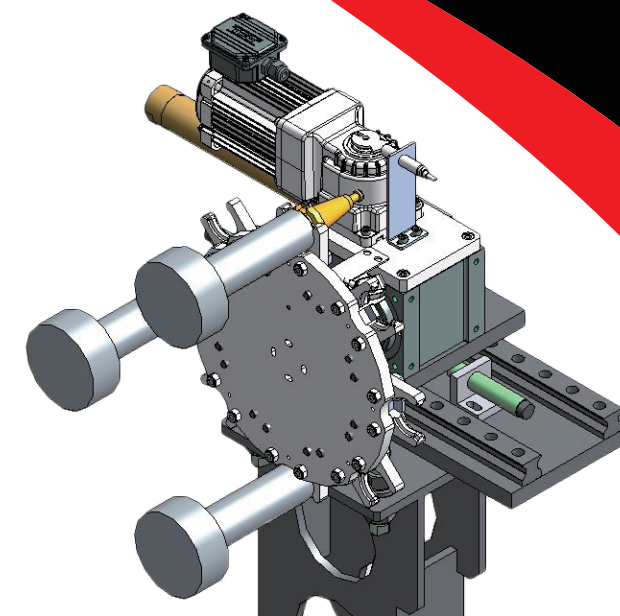
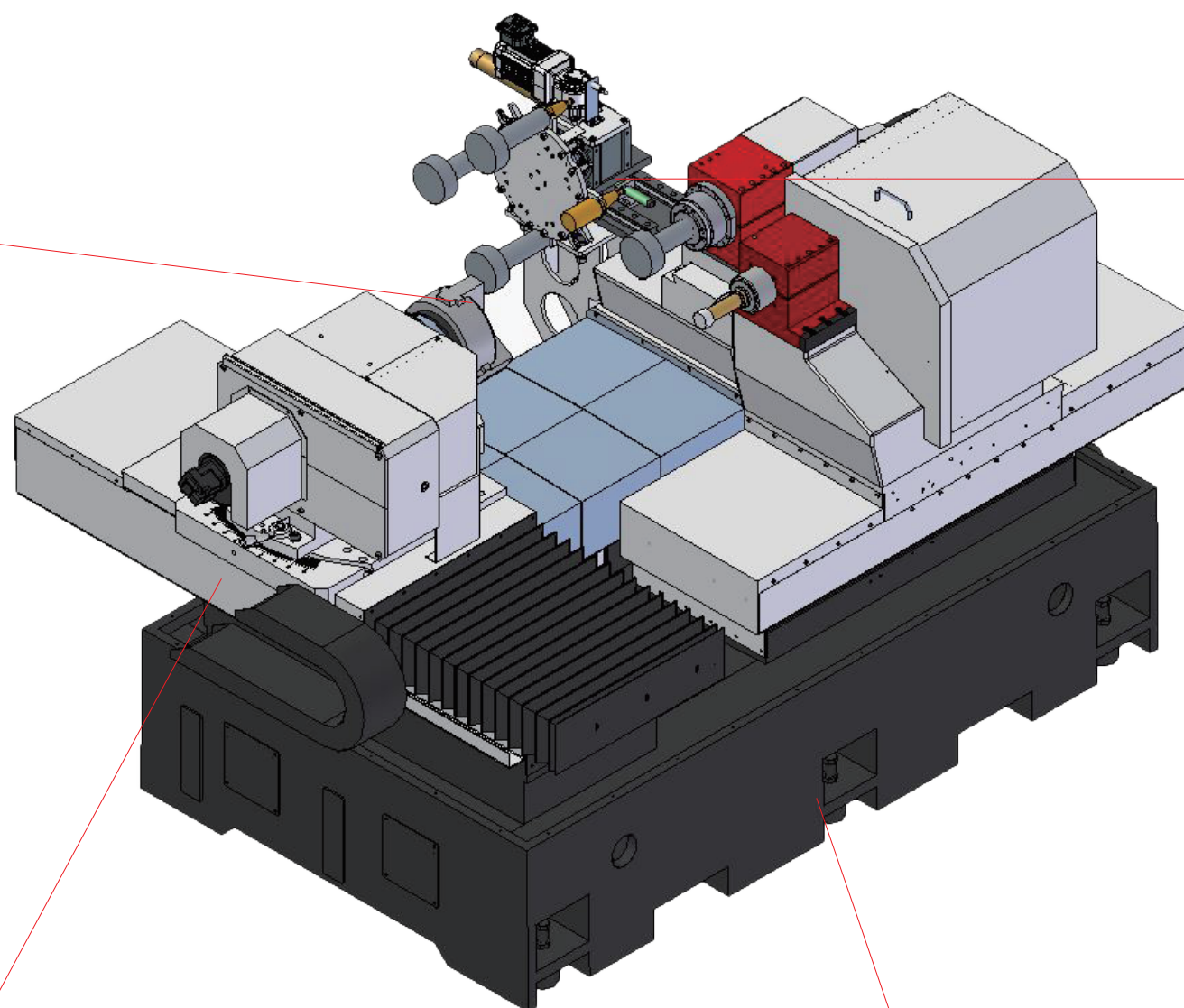
We Use the original C axis to drive and carry BT spindle. The spindle head design places the center of gravity at the rear portion to help balancing the whole spindle mechanism to increase spindle accuracy and loading capacity.



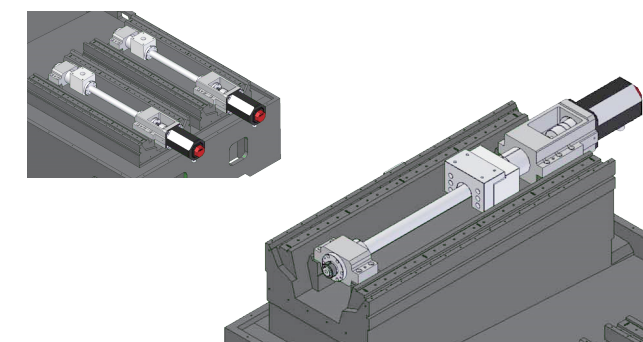
Spindle driven by servo motor offers optimum speed and torque performance.



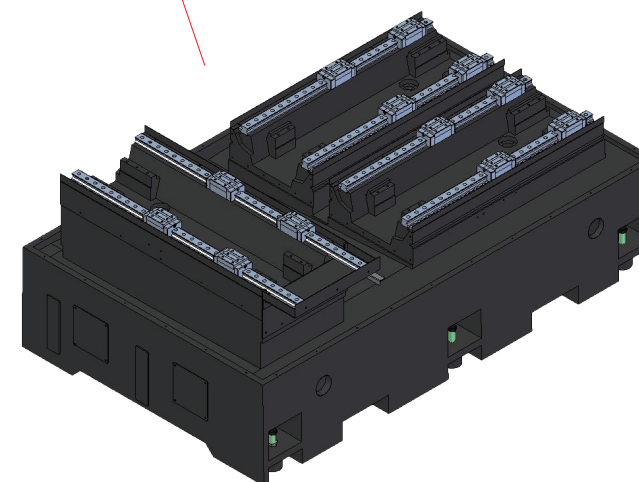
X axis lower slide design offers easy adjustment of the workhead for grinding parts with different lengths.



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



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