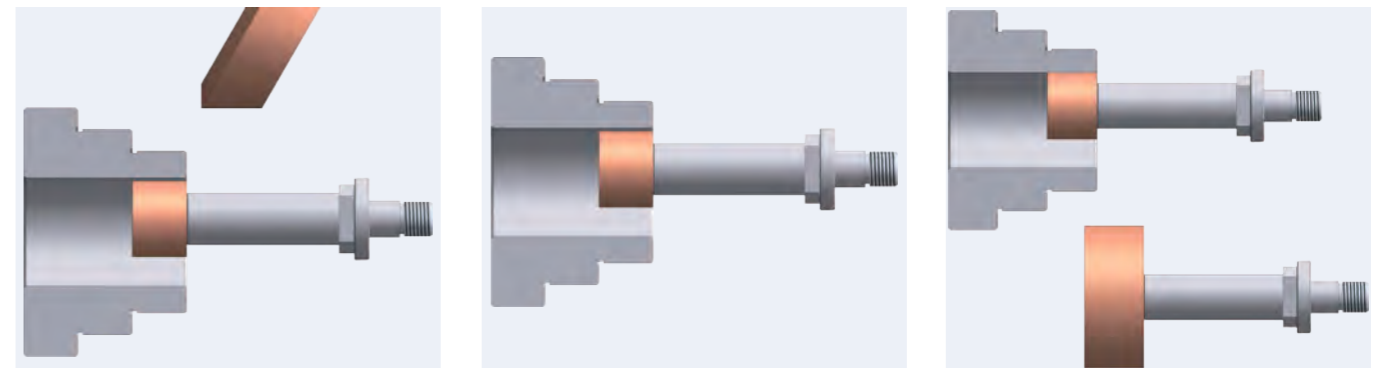


# CNC Precision Hybrid

*Spindle Integrated Locating Key ID/OD Grinder*

EGM350LF CNC • Printed in Taiwan • EI • 11/2022 • En



## Grinder Professionals

### **e-tech USA**

6435 Alondra Blvd, Paramount,  
CA.90723

**E-mail :** [info@supertecusa.com](mailto:info@supertecusa.com)

**TEL :** (562) 220-1675

### **e-tech Asian Operation Center**

No.36, Ln.686, Sec.4, Changping Rd.,  
Daya Dist., Taichung City 428  
Taiwan(R.O.C)

**E-mail :** [info@etechtw.com](mailto:info@etechtw.com)

**TEL :** 886-425686418

**WEB:** [www.etechtw.com](http://www.etechtw.com)

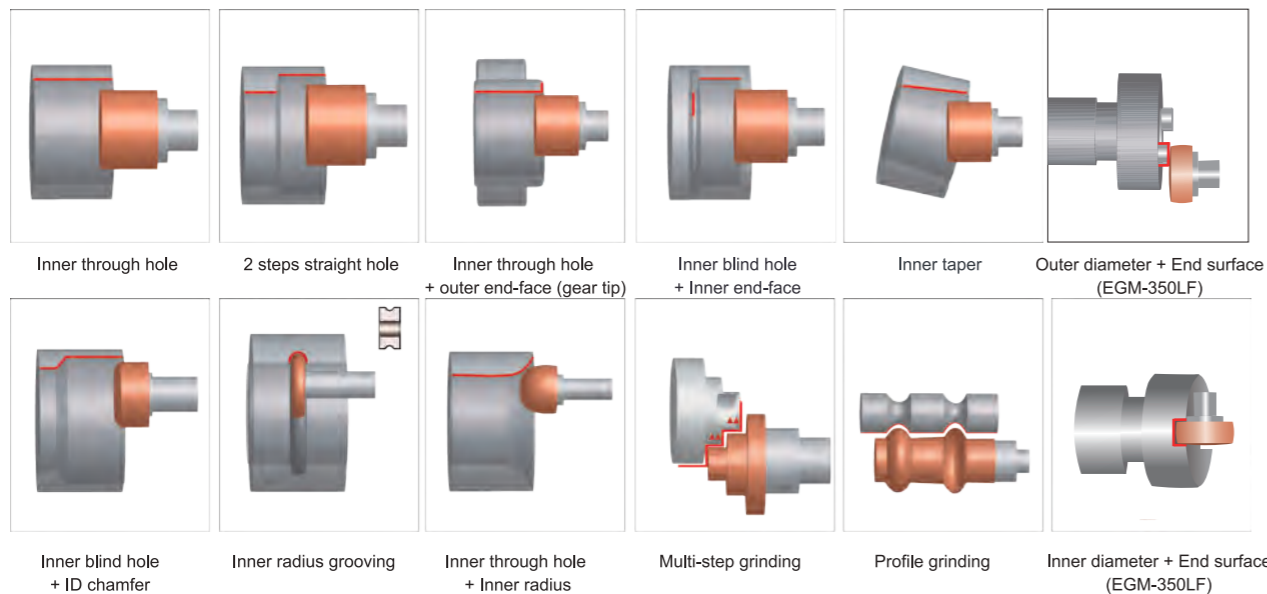
# Spindle Integrated Locating Key ID/OD Grinder EGM-350LF CNC

## 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 programming, 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.
- Use the original C axis to drive and carry BT spindle. Then, use a touch probe to measure the center of the spindle, the tool holder locating key's coordinates, and the horizontal phase. we add in a vertical slide mechanical structure to drive a direct spindle to do ID, face, and key surface grinding.
- We combine multiple operation into one and reduce the overlapped tolerance by eliminating the need for switching separated operation with the old method.



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



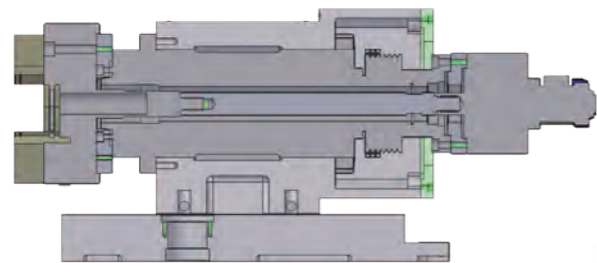
## Specification

Model	EGM-350LF CNC		
General Capacity	Max. grinding ID	mm	φ300
	Max. grinding OD	mm	φ330
	Swing over workhead	mm	φ340
	Max. grinding depth	mm	260
	Max. weight of workpiece	kg	300(w/ steady rest)
	Max. length of workpiece	mm	750
	Type of workhead	Dual independent wheelhead	
Workhead (X Axis)	3-Jaw chuck	Manual -8"/10"(opt.)	
	Swiveling angle range	deg	+10° ~ -5°
	Manual travel distance (toward Z axis)	mm	550
	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	10,000 (std.)
Grinding wheelhead (Z Axis)	Spindle motor/ max. torque	kW/Nm	3.75kW / 13Nm
	OD grinding wheel size	mm	φ100
	ID grinding wheel size	mm	N/A
Grinding wheelhead (W Axis)	Max. spindle speed	rpm	20,000 (std.)
	Spindle motor/ max. torque	kW/Nm	3.75kW / 13Nm
	OD grinding wheel size	mm	φ155X20X31.75
X Axis	ID grinding wheel size	mm	N/A
	Max. spindle speed	rpm	4000
	Spindle motor/ max. torque	kW/Nm	2.0kW/ 6.37Nm
	Travel	mm	420
	Rapid feedrate	m/min	8
Y Axis	Heidenhain linear scale resolution	mm	0.05
	Min. increment	mm	0.0001
	Servo motor rated power	kW	2.5(F)/3.0 (M)
	Travel	mm	350
	Rapid feedrate	m/min	8
Z Axis	Min. increment	mm	0.0001
	Servo motor rated power	kW	1.8(F)/2.2(M)
	Travel	mm	350
	Rapid feedrate	m/min	8
	Min. increment	mm	0.0001
W Axis	Servo motor rated power	kW	1.8(F)/2.2(M)
	Travel	mm	200
	Rapid feedrate	m/min	8
	Min. increment	mm	0.0001
	Servo motor rated power	kW	Servo motor1.2(F)/1.0(M)
Motor	Hydraulic motor	kW	0.75
Machine	Coolant pump	kW	0.37+0.18
	Net weight	kg	6800
	Gross weight	kg	7300
Packing size (L x W x H)	mm	4000X2250X1950	

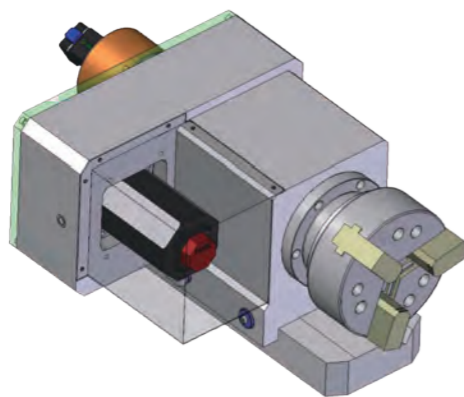
# Features



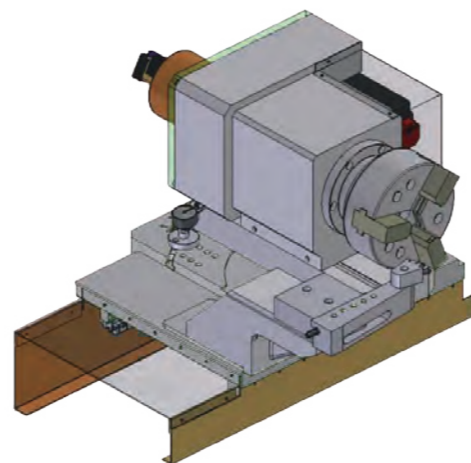
Complete one piece cartridge spindle can avoid the eccentricity of spindle housing and reduces the thermal growth, thus increase spindle life.



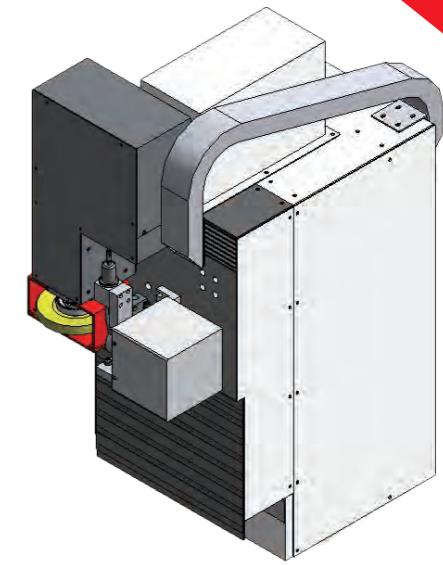
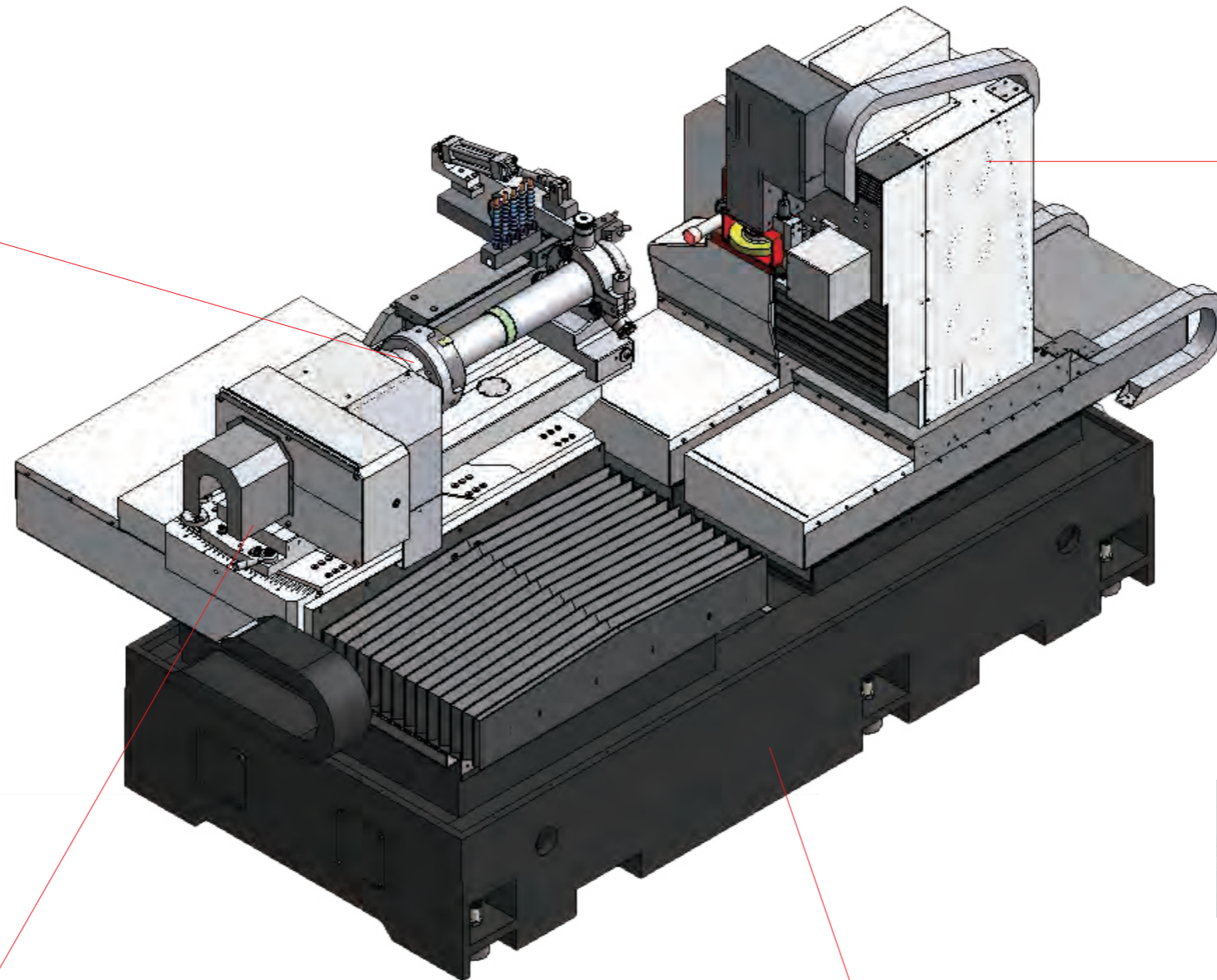
We Use the original C axis to drive and carry BT spindle. The spindle head design places the center of gravity at the rear portion to help balancing the whole spindle mechanism to increase spindle accuracy and loading capacity.



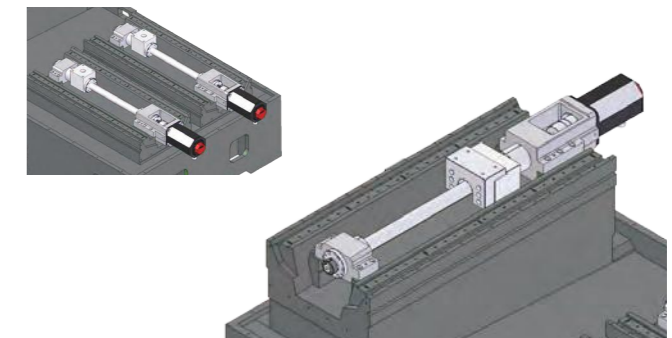
Spindle driven by servo motor offers optimum speed and torque performance.



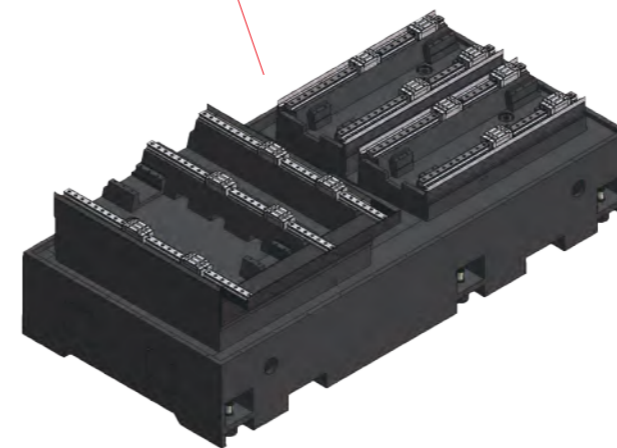
X axis lower slide design offers easy adjustment of the workhead for grinding parts with different lengths.



We add in a vertical slide mechanical structure. You can chose general grinding wheel or diamond grinding wheel grinding the end face of the spindle and the two surface planes of the locating key with touch probe to achieve automatic positioning and automatic grinding.



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.