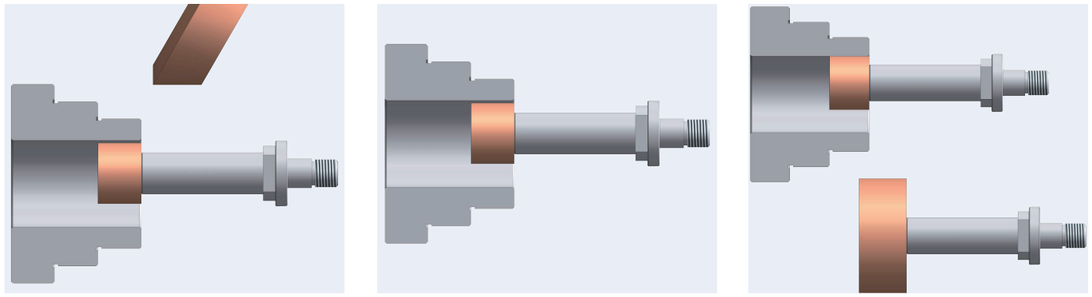
EGM350LF CNC · Printed in Taiwan · E1 · 11/2022 · En

CNC Precision Hybrid

Spindle Integrated Locating Key ID/OD Grinder



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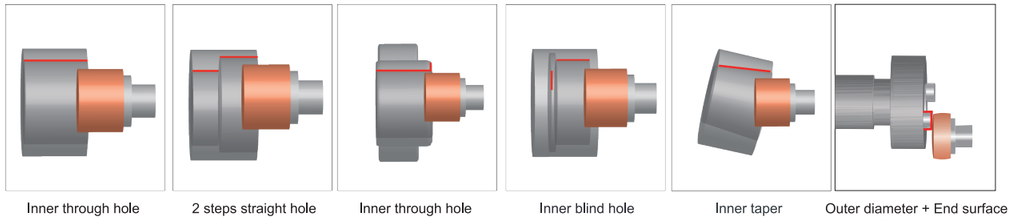
Spindle Integrated Locating Key ID/OD Grinder EGM-350LF CNC

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 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.
- 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.

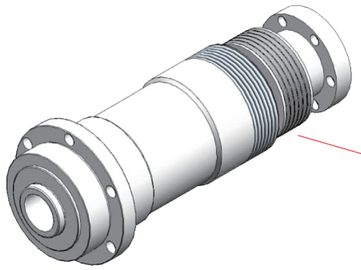
Standard grinding cycles and multi-steps graphic conversational functions.



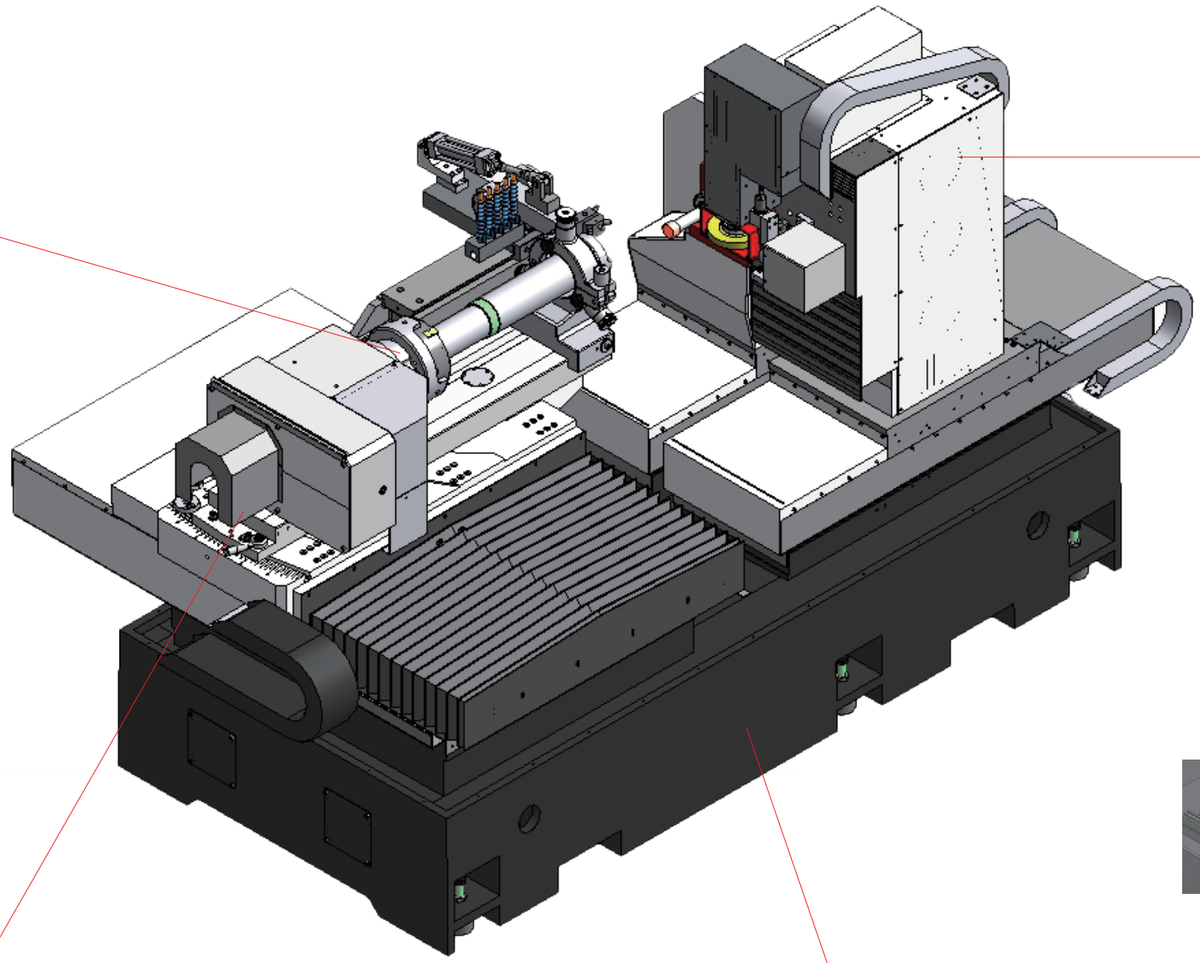
Specification

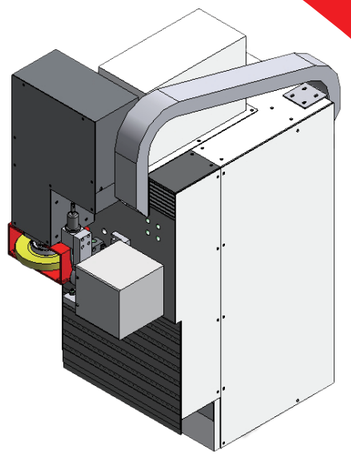
Model			EGM-350LF CNC
General	Max. grinding ID	mm	φ300
Capacity	Max. grinding OD	mm	φ330
	Swing over workhead	mm	φ340
	Max. grinding depth	mm	260
	Max. weight of workpiece	kg	300(w/ steady rest)
	Max. length of workpiece	mm	750
	Type of workhead		Dual indenpendent wheelhead
Workhead	3-Jaw chuck		Manual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

Features

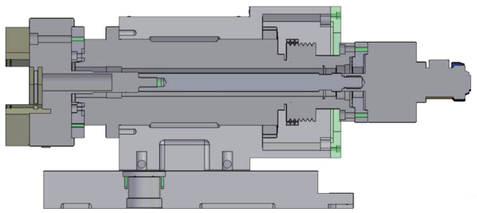


Complete one piece cartridge spindle can avoid the eccentricity of spindle housing and reduces the thermal growth, thus increase spindle life.

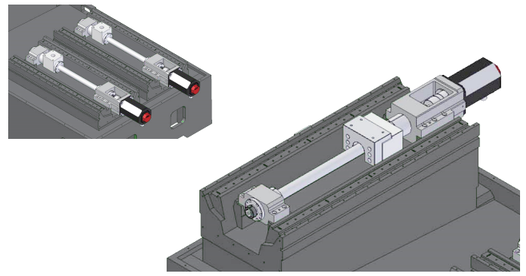




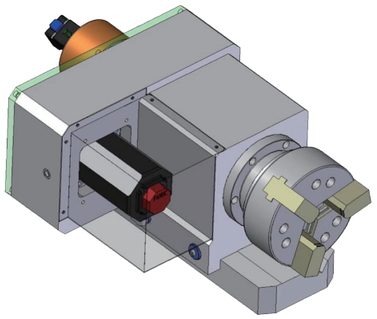
We add in a vertical slide mechanical structure. You can chose general grinding wheel or diamond grinding wheel grinding the end face of the spindle and the two surface planes of the locating key with touch probe to achieve automatic positioning and automatic grinding.



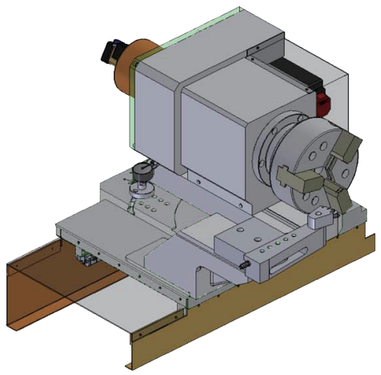
We Use the original C axis to drive and carry BT spindle. The spindle head design places the center of gravity at the rear portion to help balancing the whole spindle mechanism to increase spindle accuracy and loading capacity.



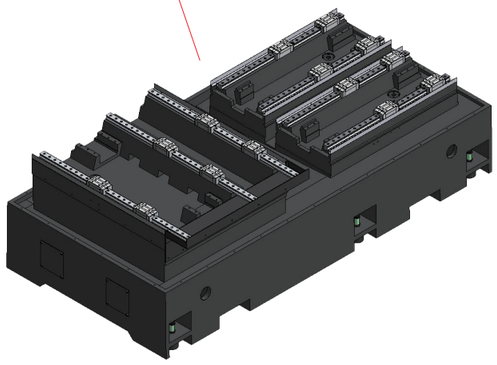
C1 grade precision ball screw with large leading pitch is used to achieve high accuracy.



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.