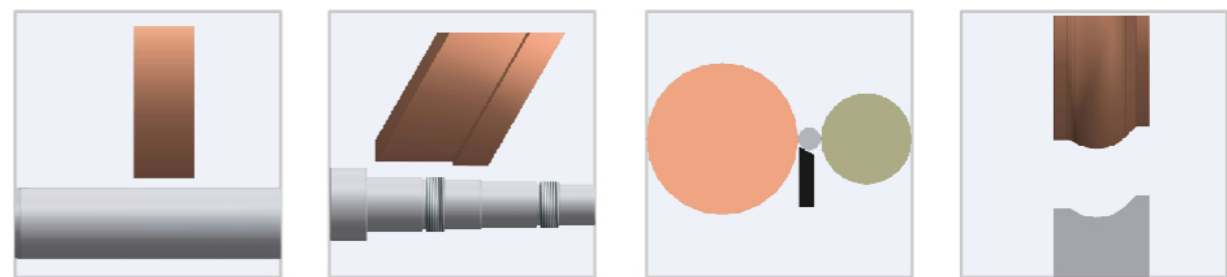
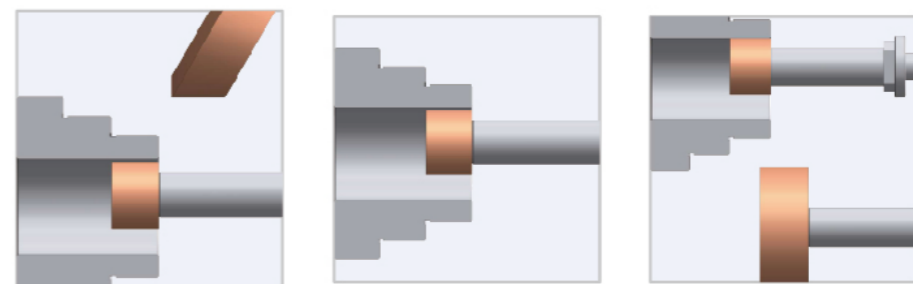




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E-tech Machinery Grinder Professional



WEBSITE



FACEBOOK



INSTAGRAM



YOUTUBE

Company Profile

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An Experienced Grinding Machine Manufacturer with Extensive Expertise

Established in the 1950s, e-tech has been working in the sector of machinery for over 70 years. In the beginning, President Zhu and his family started the business of grinder production in Taiwan. At the time, e-tech engineers acquired many critical technologies due to their extensive fieldworks in the industry. Later, due to the growing number of inquiries, President Zhu founded the e-tech USA in the 1990s in order to provide services for customers in the North American market.

Mastering Key Technologies to Grind

Integrating the profound industrial experience in Taiwan and the US market, e-tech has built a comprehensive grinding machine database, providing professional services for users of grinders all over the world. Moreover, e-tech offers OEM and ODM services for customers in Germany, USA, UK, Switzerland, and Spain. Meanwhile, grinders with the e-tech labels are also sold worldwide. All of e-tech machines are made in Taiwan, and the company is committed to providing its customers with machines that meet the best quality in the world with a wide variety of industrial applications.



> Spirits

- E. EXACT
- T. TECHNOLOGY
- E. EXCEEDED DESIGN
- C. CREATIVITY
- H. HIGH QUALITY CONTROL

> Service

- E. EXPERIENCED SERVICE TEAM
- T. THROUGH QUALITY MANAGEMENT
- E. ELABORATED TRAINING PLAN
- C. COMPREHENSIVE SALES SERVICE
- H. HIGH CLASS PRODUCT WARRANTY

Mini Genie CNC Cylindrical Grinder

Feature

- Mini Genie is a high-efficiency cylindrical grinding machine with ultimate reduction in footprint. With a floorspace requirement of less than 1.8 square meter and 405mm diameter grinding wheel, it is suitable for small workpieces machining. Distance between center is designed to be 200mm, the center height is 110mm, and the maximum weight of workpiece can be processed is 20kg.

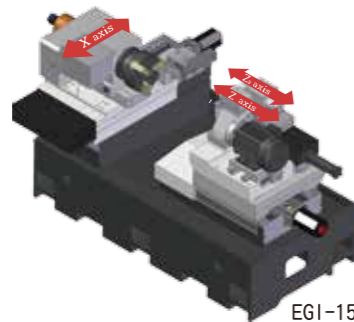
Structure

- **Work head** - NN bearing designed work spindle offers heavy duty load capacity, optimal rotation accuracy, and high rigidity. The servo motor drive offers steady speed and torque during the grinding operation.
- **Tail stock** - Oil-bath tail stock remains lubrication and makes the machine more durable. Tailstock taper adjustment feature makes workpiece setting faster.
- **Wheel head** - NN bearing designed work spindle with high power motor provides enough power to outer diameter 405mm of wheel head, and improves processing efficiency. The angle of wheel head could be choose as 0 or 20 degree.
- **Cross slide** - The structure of cross slides is made of Meehanite cast iron. Its good thermostability compensates for temporary temperature changes. (Roller bearing and straight lead rail with Heidenhain linear scale)
- **Base** - Bath type of machine base is made in Meehanite cast iron, which experience natural aging and twice stress relief to make machine base itself more stable and durable.



Model		EGP-2020 CNC	EGP-2520 CNC	
General	Swing over table	mm	φ210	φ250
Capacity	Distance between centers	mm	200	200
	Max. grinding diameter	mm	φ200	φ230
	Max. laod held between center	kg	20	20
	Center distance between spindle & slide table	mm	110	130

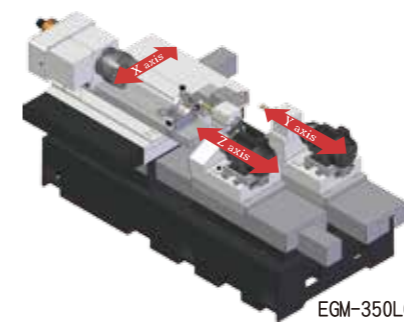
3 EGM / EGI series CNC Precision Hybrid ID & OD Grinder



EGI-150CNC



EGM-350CNC



EGM-350LCNC



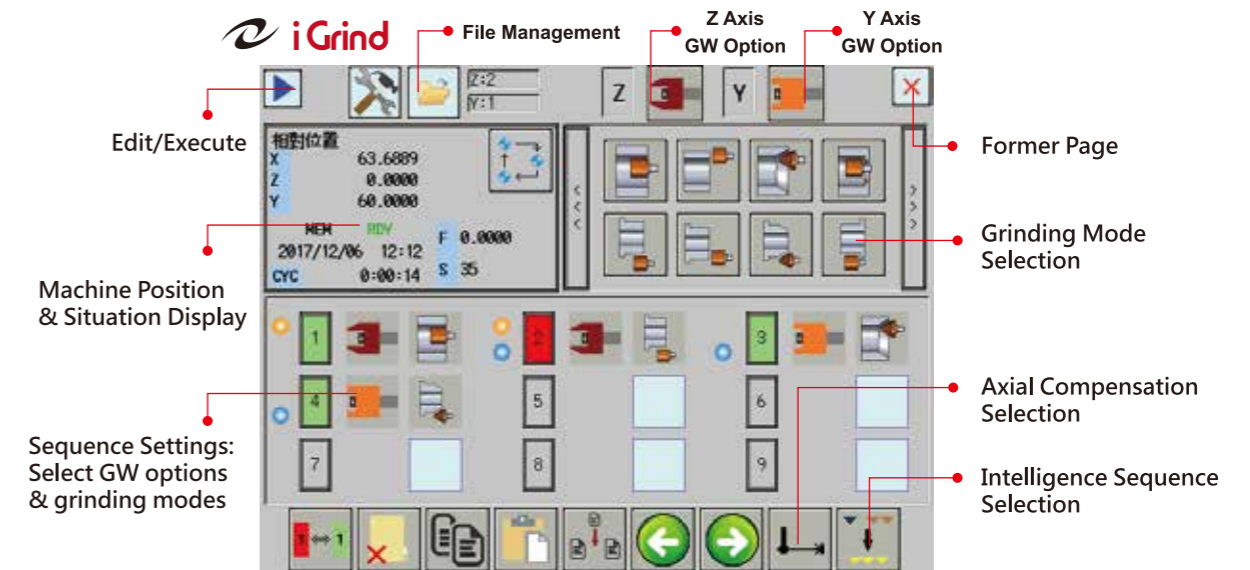
EGM-450CNC

Model	EGI-150 CNC	EGM-350 CNC	Model	EGM-350L CNC	EGM-450 CNC
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General	Max. grinding ID	mm	φ 300	φ 300	
Capacity	Max. grinding OD	mm	φ 300	φ 400	
	Swing over workhead	mm	φ 500	φ 500	
	Max. grinding depth	mm	260	260	
	Max. weight of workpiece	kg	50	50	
	Max. length of workpiece	mm	300	300	
General	Max. grinding ID	mm		φ 300	φ 300
Capacity	Max. grinding OD	mm		φ 330	φ 400
	Swing over workhead	mm		φ 340	φ 410
	Max. grinding depth	mm		260	260
	Max. weight of workpiece	kg		300 (w/steady rest)	50
	Max. length of workpiece	mm		750	300

CNC Controller

- High speed Box type dressing function drastically reduces dressing time (Mitsubishi M80)
- Optional graphic conversational programming for grinding and wheel dressing (Mitsubishi/Fanuc)
- Dressing interrupt function during the grinding cycle can save time for the initial set-up.
- 10.4" color touch screen for Mitsubishi M80.
- Internal / External cylindrical compensation function.
- 0.001mm least increment input for X/Z/Y axes.
- Programs can be stored for future use.
- Current anti-collision function.
- MPG simulation function to test-run for the program to avoid accidental wheel crash.



5 High Precision CNC Cylindrical Grinder

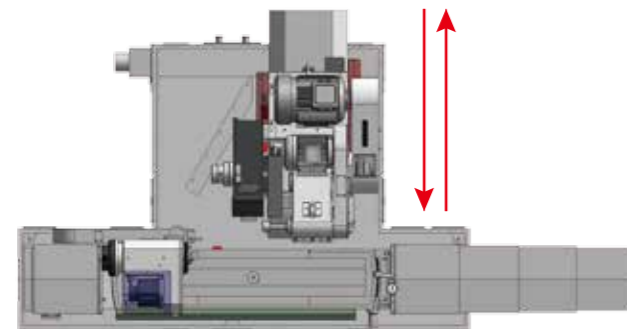
EGP Series-Plunge type



Feature

- Suitable for step grinding and longer workpiece grinding
- High rigidity spindle design increases grinding efficiency

- **Work head** - NN bearing designed work spindle offers heavy duty load capacity, optimal rotation accuracy, and high rigidity. The servo motor drive offers steady speed and torque during the grinding operation. A positive air purge system keeps grinding swarf and coolant out of the work head, thus it prolongs its life.
- **Base** - The machine based is designed to ensure the table is fully supported on both ends. The heavily ribbed box-type base is made of Meehanite casting, providing excellent rigidity and stability of the machine.



EGP - Plunge Type
 Max. Grinding OD : 230~480 mm
 Distance Between Centers : 500~3000 mm

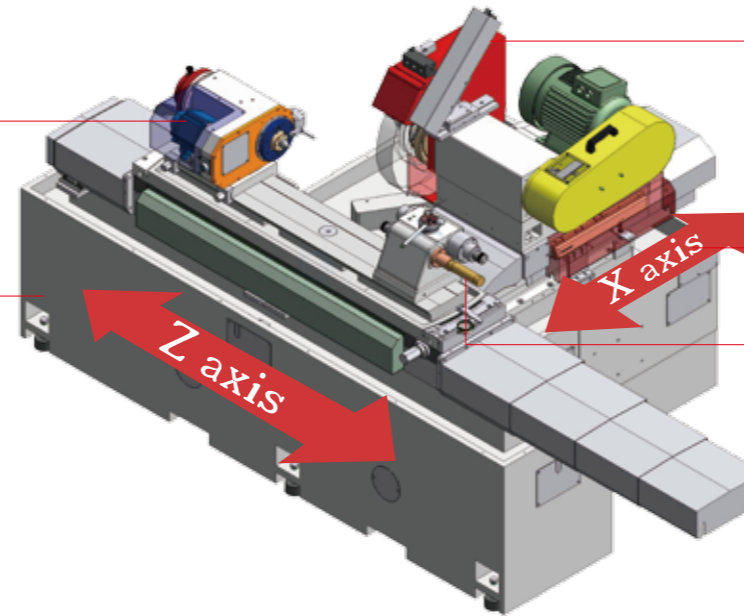
6 High Precision CNC Cylindrical Grinder

EGA Series-Angular type

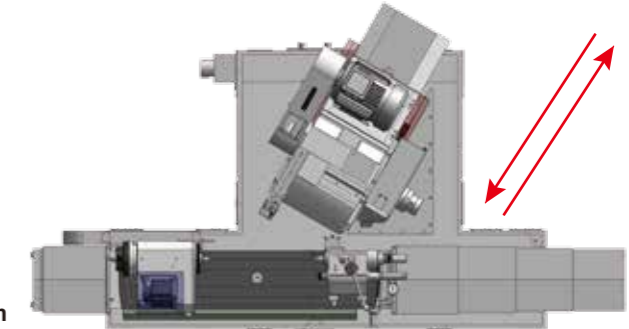


Feature

- Collocating with profile dressing function increases grinding efficiency and speed-up the operation. It is suitable for mass production.
- The best solution for big end-face grinding



- **Wheel head** - Contact bearing type spindle is easy to maintain, environmentally friendly and minimizes thermal growth issues.
- **X axis guide way** - The hand scraped Double V guideways provide maximum support to the wheel head for greater stability and grinding capacity. This design ensures superior accuracy over the life of the machine.
- **Tailstock** - A coolant nozzle is installed on the top of the tailstock for cooling the center tip. An air floating devise allows for smoother movement and protection of the table.



EGA - Angular Type
 Max. Grinding OD : 230~480 mm
 Distance Between Centers : 500~2000 mm

Model	EGP-2550	EGP-3260	EGP-32100	EGP-32150	EGP-32200	EGP-32250	EGP-32300	EGP-3860	EGP-38100
Swing over table	mm Ø250	Ø320	Ø320	Ø320	Ø320	Ø320	Ø320	Ø380	Ø380
Distance between centers	mm 500	600	1000	1500	2000	2500	3000	600	1000
Max.grinding diameter	mm Ø230	Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	Ø360	Ø360
Max. load held between center	kg 80	150	150	150	250	250	250	150	150
Center distance between	mm 130	162	162	162	162	162	162	192	192
Spindle and slide table									

Model	EGP-38150	EGP-38200	EGP-38250	EGP-38300	EGP-5060	EGP-50100	EGP-50150	EGP-50200	EGP-50250	EGP-50300
Swing over table	mm Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500	Ø500	Ø500
Distance between centers	mm 1500	2000	2500	3000	600	1000	1500	2000	2500	3000
Max.grinding diameter	mm Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480	Ø480	Ø480
Max. load held between center	kg 150	250	250	250	150	150	150	250	250	250
Center distance between	mm 192	192	192	192	255	255	255	255	255	255
Spindle and slide table										

Model	EGA-2550	EGA-3260	EGA-32100	EGA-32150	EGA-32200
Swing over table	mm Ø250	Ø320	Ø320	Ø320	Ø320
Distance between centers	mm 500	600	1000	1500	2000
Max.grinding diameter	mm Ø230	Ø300	Ø300	Ø300	Ø300
Max. grinding length - dresser on workhead side	mm 350	450	850	1350	1850
- dresser on tailstock side(Opt.)	mm 500	600	1000	1500	2000
Max. load held between center	kg 80	150	150	150	250
Center distance between spindle and slide table	mm 130	162	162	162	162

Model	EGA-3860	EGA-38100	EGA-38150	EGA-38200	EGA-5060	EGA-50100	EGA-50150	EGA-50200
Swing over table	mm Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500
Distance between centers	mm 600	1000	1500	2000	600	1000	1500	2000
Max.grinding diameter	mm Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480
Max. grinding length - dresser on workhead side	mm 450	850	1350	1850	450	850	1350	1850
- dresser on tailstock side(Opt.)	mm 600	1000	1500	2000	600	1000	1500	2000
Max. load held between center	kg 150	150	150	250	150	150	150	250
Center distance between spindle and slide table	mm 192	192	192	192	255	255	255	255

7 High Precision CNC Cylindrical Grinder EGP-A Series-Plunge Type with Angular Head

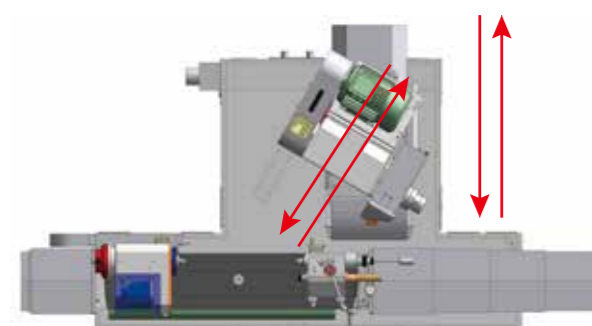
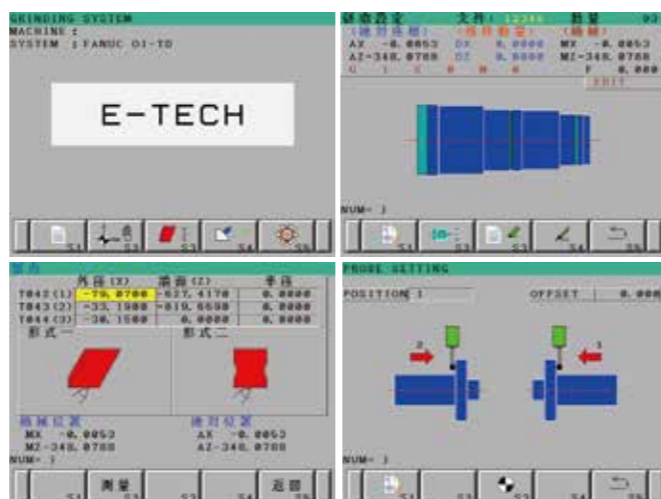


Feature

- Collocating with profile dressing function increases grinding efficiency and speed-up the operation. It is suitable for mass production
- Best solution for big end-face and accurate perpendicularity requirement between OD

CNC Controller

- OD Grinding / End Face Grinding / Form Grinding
- Form Dressing w/ Auto Compensation
- Multiple Section Grinding Sequences
- Setup Parameter Storage
- Graphic Parameter Instruction



EGA - Angular Wheelhead Plunge type
Max. Grinding OD: 360-480 mm
Distance between centers: 600-2000 mm

Model		EGP-3860A	EGP-38100A	EGP-38150A	EGP-38200A	EGP-5060A	EGP-50100A	EGP-50150A	EGP-50200A
Swing over table	mm	Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500
Distance between centers	mm	600	1000	1500	2000	600	1000	1500	2000
Max. grinding diameter	mm	Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480
Max. load held between center	kg	150	150	150	250	150	150	150	250
Center distance between spindle & slide table	mm	192	192	192	192	255	255	255	255

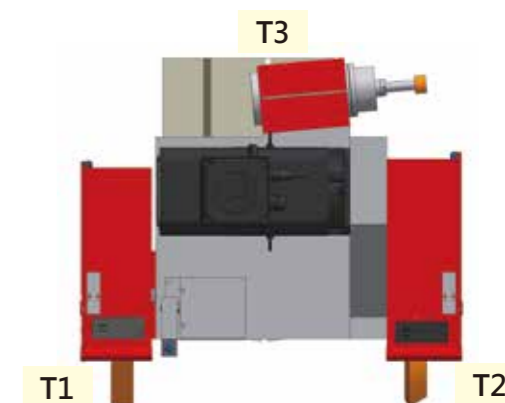
8 Universal CNC Cylindrical Grinder EGP-A Series-Plunge Type with Angular Head

Feature

- Taking advantage of the cylindrical grinding machine in the leading position in the Taiwan market, Etech Machinery developed the structure of the box-type base and fully supported lower slide structure to ensure the integrity of the foundation stiffness. Unique B-axis turntable design is high rigidity, high positioning accuracy, and software flexibility application, to meet the needs of grinding complex workpieces. Different from other brands, it shows the essence of composite grinding machine.
- Combinations of grinding operations for internal, external, end-face, groove, radius, internal & external step, taper and thread grinding can be executed in one chucking. EGP-B series is your best choice for small-volume, large variety production.

Work head

- T1 and T2 share a spindle. NN bearing designed work spindle ensures rigidity and accuracy while grinding, and provides a bigger output power to increase grinding efficiency. (Standard line speed: 45 m/sec)
- ID grinding spindle of T3 axis is designed with built-in spindle. It not only reduces the space, but provides steady torque and rigidity. (Opt.)



Model		EGP-3860B	EGP-38100B
General Capacity	Swing over table	mm	φ380
	Distance between centers	mm	600
	Max. grinding diameter	mm	φ360
	Max. load held between center	kg	150
	Center distance between spindle and slide table	mm	192

11 EDG Series Double Sided Fine Grinder

Features

- Made of high intensity cast iron, high precision spindle structure and CBN grinding wheel
- Three individual adjustable driver with three stage pneumatic press control, semi-auto loading and unloading
- Online size measurement, PLC control
- Fault detection alarm

Applications

Suitable for batch grinding of parts surface. Suitable for hydraulic and pneumatic components, hydraulic motor components, pneumatic steering parts, refrigeration press parts, oil pump nozzle parts, engine parts, high precision bearings, seals, piston rings cutting tools, molds, instrument plates, carbide tools, ceramic valve cores, monocrystalline silicon wafers, magnetic materials, etc. for double-sided grinding.



- **Precision size controller**
Accuracy indication: 0.001mm
Advanced dimension measurement with Magnescale controller
Immediately reflect the signal to PLC control and simultaneously indicate the size
- **Air filtration system**
Adopt SMC control valves to separate the oil mist from compressed air to ensure the compressed air is dry
- **Pneumatic component**
All pneumatic cylinders and control valves use Japanese brand SMC

Description		EDG-700 NC	EDG-1000 NC
Grinding wheel size (CBN thickness 5mm)	mm	700x300x55	980x370x55
Max. workpiece diameter	mm	180	330
Upper plate motor power	kw	5.5	7.5
Upper grinding wheel rotation speed	rpm	5~60	5~50
Lower plate motor power	kw	5.5	7.5
Lower grinding wheel Rotation speed	rpm	5~60	5~50
Inner ring motor power	kw	2	3
Inner ring rotation speed	rpm	5~40	5~40
Equal altitudes	mm	0.002	0.002

EGH Series Vertical Center Hole Grinder

Simple-operating Center Hole Grinder

- Specially built for shaft-type parts, by grinding the center hole on each side of the workpiece provides stable coaxiality and accuracy.

Features

- Workpiece Clamp Fixture provides auto. Centering function
- Dressing device moves toward the grinding wheel taper and provides precise dressing performance
- Oil & Mist lubrication system for spindle and bearing

Accuracy Report

- Surface roughness: Ra 0.4~0.8μm
- After center hole is ground, grind the outer diameter which provides the coaxiality <2.5μm



Description		EGH-1000	EGH-1500
Workpiece max. grinding length	mm	1000	1500
Workpiece min. grinding length	mm	50	100
Workpiece Max. diameter	mm	φ125	φ180
Workpiece Min. diameter	mm	8	30
Cone angle of center holes	deg	60	60
Max. diameter of center hole	mm	φ60	φ60
Min. diameter of center hole	mm	φ1.5	φ1.5
Max. weight of workpiece	kg	100	250
Spindle speed	rpm	22500	45000
Workpiece rotation speed	rpm	25	25
Grinding spindle motor	kw	0.25	0.25
Planetary axis motor	kw	0.12	0.12
Workpiece driving motor	kw	0.12	0.12
Dust collect motor	kw	0.75	0.75