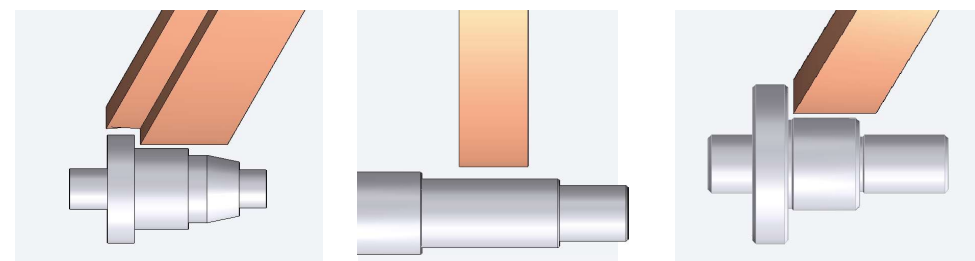




## CNC Cylindrical Grinder

EGP, EGA & EGP-A series

EGP, EGA & EGP-A CNC - Printed in Taiwan - E5 - 06/2022 - en



Grinder Professionals

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

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



E-tech Machinery Grinder Professional



FACEBOOK



YOUTUBE



WEBSITE

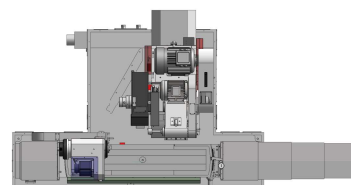
<b>Machine Features</b>	<b>1</b>
<b>Structure Features</b>	<b>3</b>
<b>High Precision Grinding Technology</b>	<b>5</b>
<b>Grinding Application</b>	<b>7</b>
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# 1 EGP, EGA & EGP-A Series High Precision CNC cylindrical Grinder

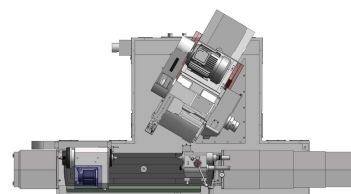
EGP, EGA & EGP-A Series grinders are designed for high precision, high efficiency, and ease of operation. They are suitable for various applications including but not limited automotive, aerospace, medical instrument, tooling, job shop, and mold industries.

## Features

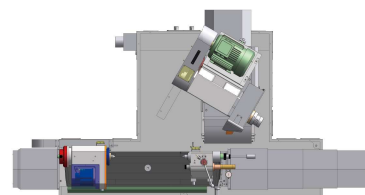
- e-tech Machinery Inc. introduces EGP, EGA & EGP-A series CNC cylindrical grinders with superb grinding capabilities and choice of control options. The customers' requirements can be met with a choice of many machine options such as a touch probe, automatic sizing device, or swing down ID grinding attachment. The complete product line offers a wide range of between center distances and center heights in both plunge and angular wheelhead designs. Automation and turnkey solutions can be offered optional equipment.



EGP - Plunge Wheelhead  
Max. Grinding OD: 230-480 mm  
Distance between Centers: 500-3000 mm



EGA - Angular Wheelhead  
Max. Grinding OD: 230-480 mm  
Distance between Centers: 500-2000 mm



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

## CNC Controller

- A selection of CNC control systems including Fanuc, Mitsubishi, Siemens, PC-BASE are available.
- For small and medium size workpiece grinding operations, e-tech incorporates the iGrind graphic conversational programming software.

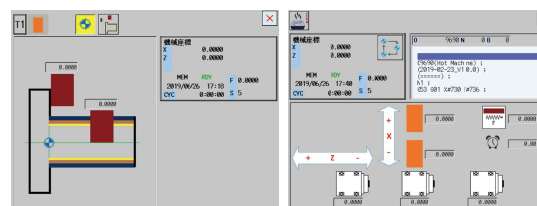
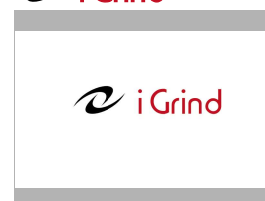


FANUC Controller

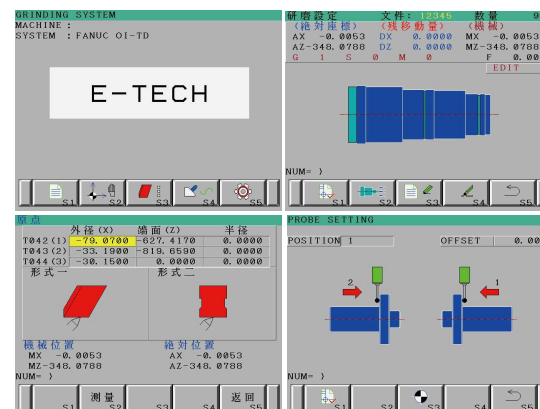


Mitsubishi Controller

iGrind

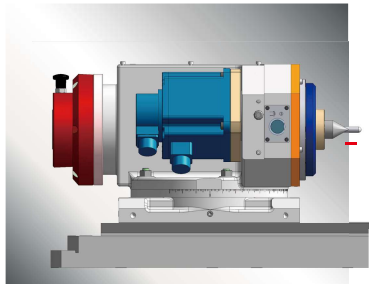


FANUC Controller



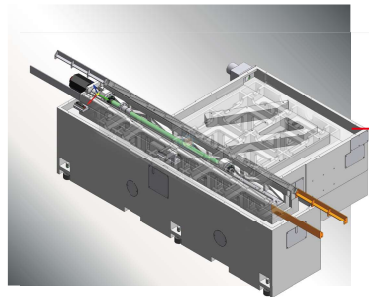
Mitsubishi Controller

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



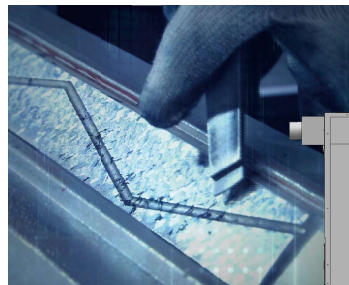
## Work Head

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.

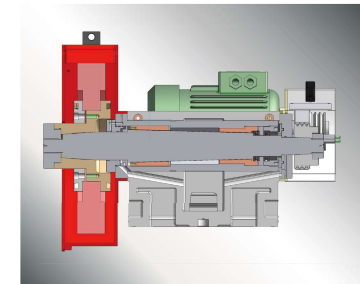
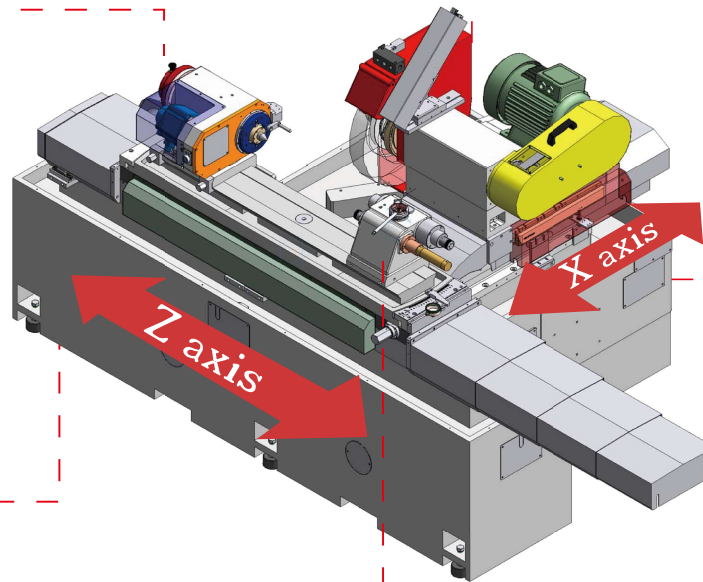
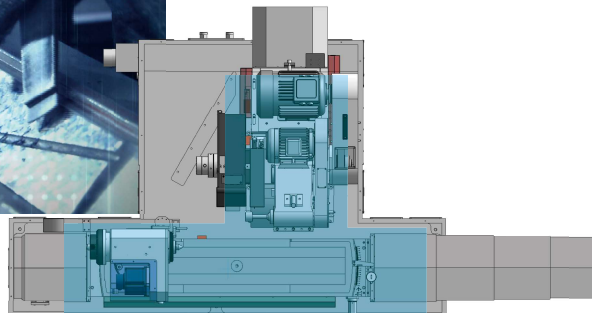


## Rigid Machine Base

The machine base 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.

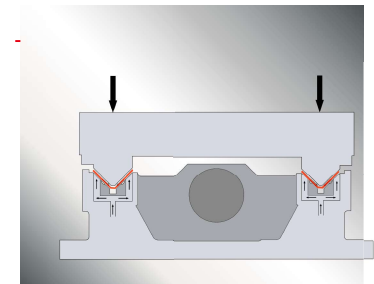


■ E-tech  
■ Other



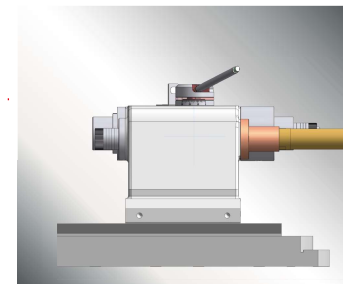
## Wheel head Spindle Bearing Options:

- Standard — Contact Bearing Type Spindle is easy to maintain, environmentally friendly and minimizes thermal growth issues.
- Optional — Hydrodynamic Babbit Bearing Type Spindle applies SNCM220 super alloy steel with multiple heat treatments makes the surface hardness of spindle up to HRC 62. These features ensure maximum cutting capability and best part finish performance in the grinding operation.



## X-axis Guideway

The hand scraped Double V guideways provide maximum support to the wheel head for greater stability and grinding capacity. This design insures superior accuracy over the life of the machine.



## Tail Stock

A coolant nozzle is installed on the top of the tailstock for cooling the center tip. An air floating device allows for smoother movement and protection of the table.

- An optional tailstock quill travel of 75mm helps to load/unload the workpiece with ease. The quill is oil-bathed to ensure smooth movement.
- An optional tailstock taper adjustment feature allows the operator to easily adjust for taper error.

# 5 High Precision Grinding Technology

## Plunge Grinding Example :

Model EGP-3260CNC

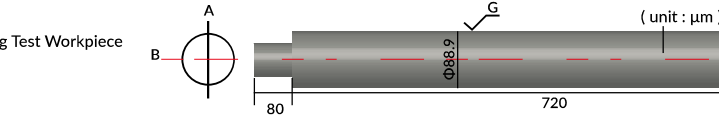
## Grinding Conditions :

Wheel : WA60K(Φ405mm)

## Workpiece

Name: Standard Grinding Test Workpiece

Material: SCM435



(unit : μm)	1	2	3	4	5	6	7	8	9
A	0.0	0.0	0.0	+1.0	+1.0	+1.0	0.0	0.0	0.0
B	0.0	0.0	0.0	+1.0	+1.0	+1.0	0.0	0.0	0.0

Cylindricity



## Traverse Grinding Example :

Model EGP-3260CNC

## Grinding Conditions :

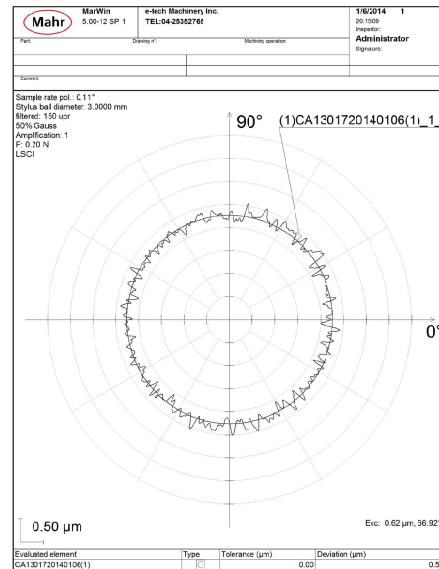
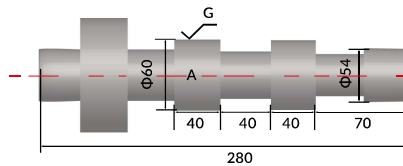
Wheel : WA60K(Φ405mm)

## Workpiece

Name: Standard Grinding Test Workpiece

Material: SCM435

Roundness :  
Part A 0.50 μm

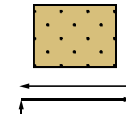


The grinding tests are grinding examples and do not represent actual grinding accuracies.

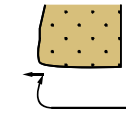
## Wheel Dressing Cycle

### Plunge Type

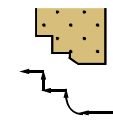
Straight - Parallel



LHS Radius and Concave below

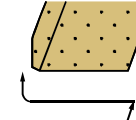


Steps Wheel (option)  
(Under 15 points)

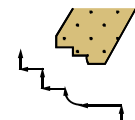


### Angular Type

Wheel with radius



Steps Wheel (option)  
(Under 15 points)



Remarks :

1. Max. 5 types of wheel profile can be saved.
2. Dressing condition can setup rough, intermediate and fine dressing
3. Machine with ID attachment, the dressing operation of ID wheel is manual operated.

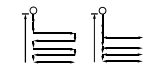
## Grinding Cycle

### Plunge Type

1. Plunge grinding



2. Traverse grinding



3. Plunge And Traverse grinding



Both sides  
feed

LHS feed  
RHS feed

Both sides  
feed

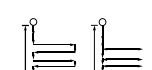
LHS feed  
RHS feed

### Angular Type

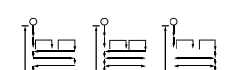
1. Plunge grinding



2. Traverse grinding



3. Plunge And Traverse grinding



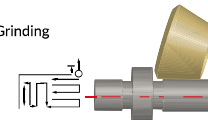
Both sides  
feed

LHS feed  
RHS feed

Both sides  
feed

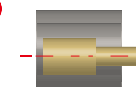
LHS feed  
RHS feed

4. OD +End Face Grinding

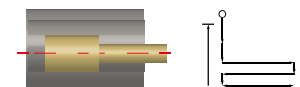


### ID Grinding Cycle (using OD Grinding Cycle)

1. Plunge



2. Traverse

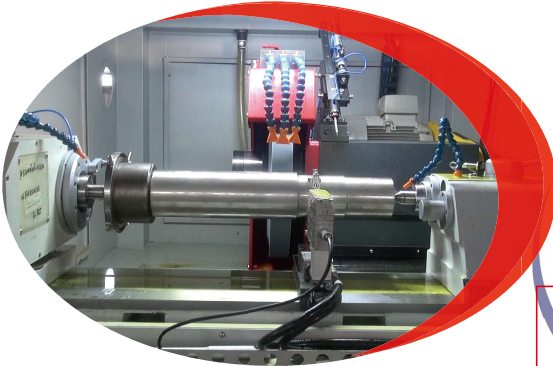


Remarks :

1. All cycles can be separated into rough grinding and fine grinding cycles.
2. Plunge type end face grinding can be implemented by manual operation and offsets.
3. ID grinding coordinate display is not the same to the dimension of the workpiece
4. Multiple steps ID grinding can be implemented by manual operation.



Spindle Shaft  
Model: EGP-38200CNC



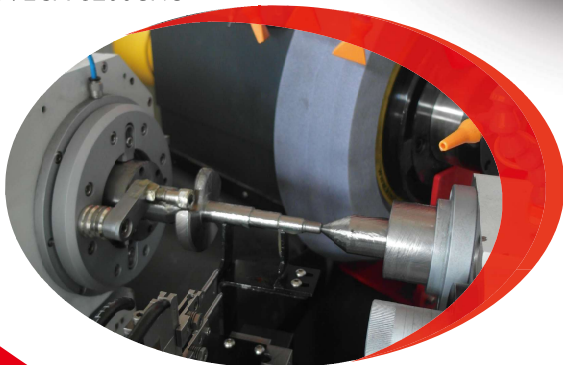
Rotor  
Model: EGP-3260CNC



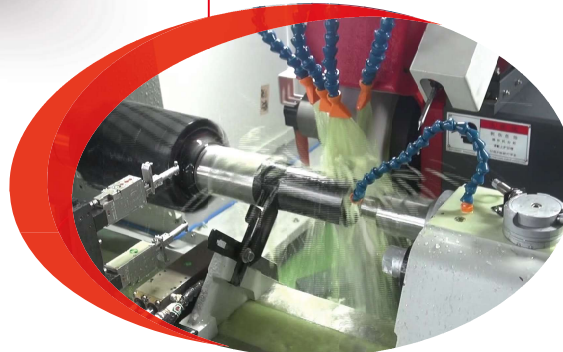
Printer Roller  
Model: EGP-38200CNC



Crank Shaft  
Model: EGA-3260CNC



Gear Box Helical Gear  
Model: EGP-3260CNC



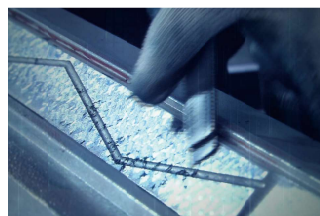
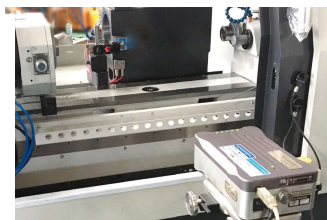
# 9 Accumulated inspection time of over 100 hours for each machine produced.

We know how it runs and we know how it is inspected

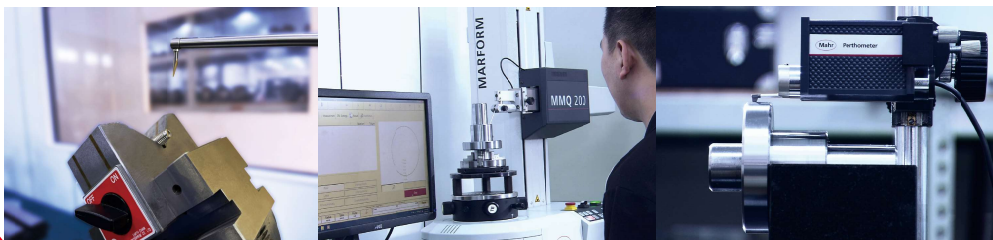
## In-Process Inspections



(Wenzel CMM LH65)



## Workpiece Inspections



Mitutoyo Profilemeter : C-4500  
Mahr cylinder formtester: MMQ400  
Mahr Surface Roughness Tester: PERTHOETER M2

## Automation Solutions

Due to our extensive engineering knowledge and vast supplier network, we can provide the best grinding solutions.

1. In Process Gauging/Automation
2. Standard Automation Systems
3. Flexible Automation



> General purpose production

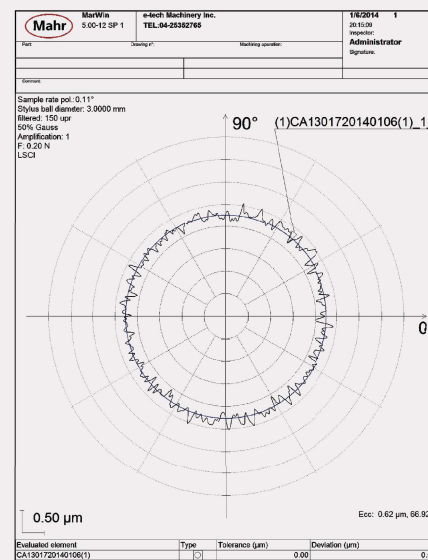


> Load / Unloading solutions  
> Gantry Type and  
6-axis Robot solution



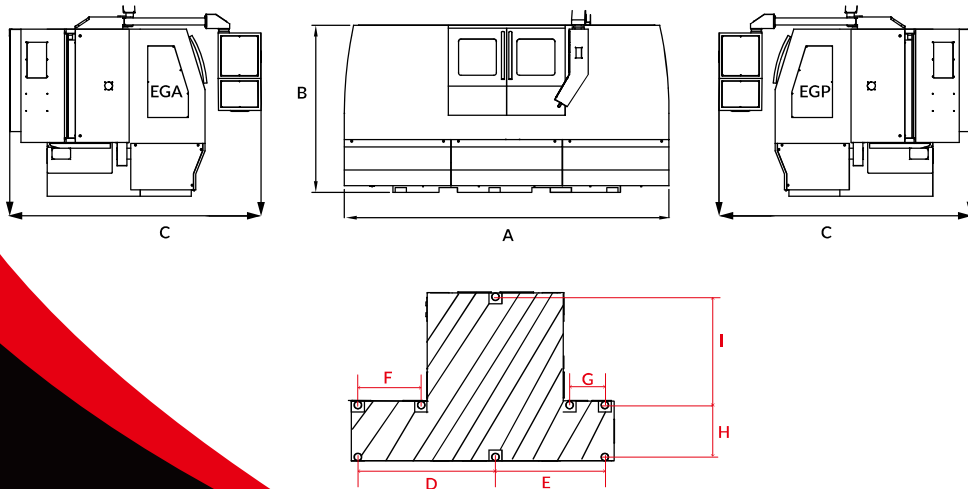
> High Production Units  
> Offers total solution for customized  
production process, grinders with the  
automation system, and turnkey operations.

## MAHR MMQ400 Roundness Measurement





Model		EGP-2550	EGP-3260	EGP-32100	EGP-32150	EGP-32200	EGP-32250	EGP-32300	EGP-3860	EGP-38100
Grinding	Swing over table	mm	Ø250	Ø320	Ø320	Ø320	Ø320	Ø320	Ø380	Ø380
Capacity	Distance between centers	mm	500	600	1000	1500	2000	2500	3000	600
	Max. grinding diameter	mm	Ø230	Ø300	Ø300	Ø300	Ø300	Ø300	Ø360	Ø360
	Max. load held between center	kg	80	150	150	150	250	250	150	150
	Center distance between spindle & slide table	mm	130	162	162	162	162	162	192	192
Grinding	Diameter x Width x Bore	mm	Ø45x50xØ127 (5")		Ø510x50-100xØ152.4(6")				Ø510x50-100xØ152.4(6")	
Wheel			Opt.Ø45x50xØ152.4 ( 6")		Opt.Ø510x50 ~ 100xØ203.2(8")				Opt.Ø610x50 ~ 100xØ203.2(8")	
Workhead	Motor rated power / max. torque	kW/Nm	3.75kW / 13Nm		7.5kW/49Nm(Opt.11kW/ 71Nm)				7.5kW/49Nm(Opt.11kW/ 71Nm)	
	Wheel speed	rpm	1400		1250 (Opt.1650)				1250 (Opt.1650)	
	Swiveling angle	deg	90		90				90	
	Spindle speed (infinite variable)	rpm	10 ~ 600		10 ~ 600				10 ~ 600	
Tailstock	Motor rated power / max. torque	kW	0.75		1.5				1.5	
	Center taper	-	MT3(Opt.MT4)		MT4 (Opt. MT5)				MT4 (Opt. MT5)	
	Spindle type	-	Fixed or Rotary		Fixed or Rotary				Fixed or Rotary	
	Diameter of bore	mm	Ø20		Ø23				Ø23	
X Axis	Quill travel	mm	25		25 (Opt.50/75)				25 (Opt.50/75)	
	Center taper	-	MT3(Opt.MT4)		MT4 (Opt. MT5)				MT4 (Opt. MT5)	
	Travel	mm	200		270				270	
	Max. rapid feedrate	m/min	6		6				6	
Z Axis	Heidenhain linear scale resolution	um	0.05		0.05				0.05	
	Min. increment	mm	0.0001		0.0001				0.0001	
	Servo motor rated power	kW	1.2(F)/1.5(M)		1.8(F)/2.2(M)				1.8(F)/2.2(M)	
	Travel	mm	750		850 1250 1850 2450 3050 3650				850 1250	
Motor	Swiveling angle	deg	±7		±5 ±7 ±5 ±3 ±2				±9 ±7	
	Max. rapid feedrate	m/min	8		10				10	
	Min. increment	mm	0.0001		0.0001				0.0001	
	Servo motor rated power	kW	1.2(F)/1.5(M)		1.8(F)/2.2(M)   2.5(F)/3.5(M)				1.8(F)/2.2(M)	
Machine	Hydraulic pump	kW	0.38		0.38				0.38	
	Hydrodynamic GW spindle lubrication pump	kW	0.2		0.2				0.2	
	Guide way lubrication pump	kW	0.2		0.2				0.2	
	Coolant pump	kW	0.2		0.2				0.2	
Machine	Net Weight (semi-enclosed splash guard)	kg	3100	5600	5900	6300	6700	7100	7500	5700
	Gross Weight	kg	3800	6400	6700	7100	7500	7900	8300	6500



Model		EGP-38150	EGP-38200	EGP-38250	EGP-38300	EGP-5060	EGP-50100	EGP-50150	EGP-50200	EGP-50250	EGP-50300
Grinding	Swing over table	mm	Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500	Ø500
Capacity	Distance between centers	mm	1500	2000	2500	3000	600	1000	1500	2000	3000
	Max. grinding diameter	mm	Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480	Ø480
	Max. load held between center	kg	150	250	250	250	150	150	150	250	250
	Center distance between spindle & slide table	mm	192	192	192	192	255	255	255	255	255
Grinding	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4(6")		Ø510x50-100xØ152.4(6")				Ø510x50-100xØ152.4(6")		
Wheel			Opt.Ø610x50 ~ 100xØ203.2(8")		Opt.Ø610x50 ~ 100xØ203.2(8")				Opt.Ø610x50 ~ 100xØ203.2(8")		
Workhead	Motor rated power / max. torque	kW/Nm	7.5kW/49Nm(Opt.11kW/ 71Nm)		7.5kW/49Nm(Opt.11kW/ 71Nm)				7.5kW/49Nm(Opt.11kW/ 71Nm)		
	Wheel speed	rpm	1250 (Opt.1650)		1250 (Opt.1650)				1250 (Opt.1650)		
	Swiveling angle	deg	90		90				90		
	Spindle speed (infinite variable)	rpm	10 ~ 600		10 ~ 600				10 ~ 600		
Tailstock	Motor rated power / max. torque	kW	1.5		1.5				1.5		
	Center taper	-	MT4 (Opt. MT5)		MT4 (Opt. MT5)				MT4 (Opt. MT5)		
	Spindle type	-	Fixed or Rotary		Fixed or Rotary				Fixed or Rotary		
	Diameter of bore	mm	Ø23		Ø23				Ø23		
X Axis	Quill travel	mm	25 (Opt.50/75)		25 (Opt.50/75)				25 (Opt.50/75)		
	Center taper	-	MT4 (Opt. MT5)		MT4 (Opt. MT5)				MT4 (Opt. MT5)		
	Travel	mm	270		270				270		
	Max. rapid feedrate	m/min	6		6				6		
Z Axis	Heidenhain linear scale resolution	um	0.05		0.05				0.05		
	Min. increment	mm	0.0001		0.0001				0.0001		
	Servo motor rated power	kW	1.8(F)/2.2(M)		1.8(F)/2.2(M)				1.8(F)/2.2(M)		
	Travel	mm	1850	2450	3050	3650	850	1250	1850	2450	3050
Motor	Swiveling angle	deg	±5	±5	±3	±2	±9	±7	±5	±5	±3
	Max. rapid feedrate	m/min	10		10				10		
	Min. increment	mm	0.0001		0.0001				0.0001		
	Servo motor rated power	kW	2.5(F)/3.5(M)		2.5(F)/3.5(M)				1.8(F)/2.2(M)   2.5(F)/3.5(M)		
Machine	Hydraulic pump	kW	0.38		0.38				0.38		
	Hydrodynamic GW spindle lubrication pump	kW	0.2		0.2				0.2		
	Guide way lubrication pump	kW	0.2		0.2				0.2		
	Coolant pump	kW	0.2		0.2				0.2		
Machine	Net Weight (semi-enclosed splash guard)	kg	6400	6800	7200	7600	5800	6100	6500	6900	7300
	Gross Weight	kg	7200	7600	8000	8400	6600	6900	7300	7700	8100

EGA	A	B	C	D	E	F	G	H	I
2550	3125	1810	2300	850	566	309	260	320	860
3260	3500	1800	2760	1270	1010	585	325	480	1000
32100	4300	1800	2760	1670	1410	985	725	480	1000
32150	5600	1800	2760	2270	2010	1585	1325	480	1000
32200	7055	1800	2850	2890	2630	2205	1945	560	1000
3860	3500	1800	2760	1270	1010	585	385	480	1000
38100	4300	1800	2760	1670	1410	985	725	480	1000
38150	5600	1800	2760	2270	2010	1325	1585	480	1000
38200	7055	1800	2850	2890	2630	1945	2205	560	1000
5060	3500	1800	2760	1270	1010	585	385	480	1000
50100	4300	1800	2760	1670	1410	985	725	480	1000
50150	5600	1800	2760	2270	2010	1325	1585	480	1000
50200	7055	1800	2850	2890	2630	1945	2205	560	1000
38100	4300	1800	2760	1670	1410	985	725	480	1000
38150	5600	1800	2760	2270	2010	1325	1585	480	1000
38200	7055	1800	2850	2890	2630	1945	2205	560	1000
38250	8560	1800	2850	3390	3150	2700	2445	560	1000
38300	10060	1800	2850	3890	3630	3205	2945	560	1000
5060	3500	1800	2760	1270	1010	585	385	480	1000
50100	4300	1800	2760	1670	1410	985	725	480	1000
50150	5600	1800	2760	2270	2010	1325	1585	480	1000
50200	7055	1800	2850	2890	2630	1945	2205	560	1000
50250	8560	1800	2850	3390	3150	2700	2445	560	1000
50300	10060	1800	2850	3890	3630	3205	2945	560	1000



Model			EGA-	EGA-	EGA-	EGA-	EGA-	EGA-	EGA-	Model		EGA-	EGA-	EGA-	EGA-	EGA-	EGA-		
			2550	3260	32100	32150	32200	3860	38100			38150	38200	5060	50100	50150	50200		
Grinding	Swing over table	mm	Ø250	Ø320	Ø320	Ø320	Ø320	Ø380	Ø380	Grinding	Swing over table	mm	Ø380	Ø380	Ø500	Ø500	Ø500		
Capacity	Distance between centers	mm	500	600	1000	1500	2000	600	1000	Capacity	Distance between centers	mm	1500	2000	600	1000	1500		
	Max. grinding daimeter	mm	Ø230	Ø300	Ø300	Ø300	Ø300	Ø360	Ø360		Max. grinding daimeter	mm	Ø360	Ø360	Ø480	Ø480	Ø480		
	Max. grinding length - dresser on workhead side	mm	350	450	850	1350	1850	450	850		Max. grinding length - dresser on workhead side	mm	1350	1850	450	850	1350		
	- dresser on tailstock side (Opt.)	mm	500	600	1000	1500	2000	600	1000		- dresser on tailstock side (Opt.)	mm	1500	2000	600	1000	1500		
	Max. load held between center	kg	80	150	150	150	250	150	150		Max. load held between center	kg	150	250	150	150	250		
	Center distance between spindle and slide table	mm	130	162	162	162	162	192	192		Center distance between spindle and slide table	mm	192	192	255	255	255		
Grinding	Infeed angle	deg	60°	60	60	60	60	60	60	Grinding	Infeed angle	deg	60	60	60	60	60		
Wheel	Diameter x Width x Bore	mm	Ø510x50xØ127 (5")	Ø510x50-100xØ152.4 (6")			Ø510x50-100xØ152.4 (6")			Wheel	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4 (6")			Ø510x50-100xØ152.4 (6")			
				Opt. Ø510x50~100xØ203.2 (8")			Opt. Ø610x50~100xØ203.2 (8")							Opt. Ø610x50~100xØ203.2 (8")			Opt. Ø610x50~100xØ203.2 (8")		
	Motor rated power / max. torque	kW/Nm	3.75kW / 13Nm	7.5kW/49Nm(Opt.11kW/ 71Nm)			7.5kW/49Nm(Opt.11kW/ 71Nm)				Motor rated power / max. torque	kW/Nm	7.5kW/49Nm(Opt.11kW/ 71Nm)			7.5kW/49Nm(Opt.11kW/ 71Nm)			
	Wheel speed	rpm	1400	1250 (Opt.1650)			1250 (Opt.1650)				Wheel speed	rpm	1250 (Opt.1650)			1250 (Opt.1650)			
Workhead	Swiveling angle	deg	90	90			90			Workhead	Swiveling angle	deg	90			90			
	Spindle speed (infinite variable)	rpm	10~600	10~600			10~600					Spindle speed (infinite variable)	rpm	10~600			10~600		
	Motor rated power / max. torque	kW	0.75	1.5			1.5					Motor rated power / max. torque	kW	1.5			1.5		
	Center taper	-	MT3	MT4 (Opt. MT5)			MT4 (Opt. MT5)					Center taper	-	MT4 (Opt. MT5)			MT4 (Opt. MT5)		
	Spindle type	-	Fixed or Rotary	Fixed or Rotary			Fixed or Rotary					Spindle type	-	Fixed or Rotary			Fixed or Rotary		
	Diameter of bore	mm	Ø20	Ø23			Ø23					Diameter of bore	mm	Ø23			Ø23		
Tailstock	Quill travel	mm	25	25 (Opt.50/75)			25 (Opt.50/75)			Tailstock	Quill travel	mm	25 (Opt.50/75)			25 (Opt.50/75)			
	Cente taper	-	MT3	MT4 (Opt. MT5)			MT4 (Opt. MT5)					Cente taper	-	MT4 (Opt. MT5)			MT4 (Opt. MT5)		
X Axis	Travel	mm	200	270			270			X Axis	Travel	mm	270			270			
	Max. rapid feedrate	m/min	6	6			6					Max. rapid feedrate	m/min	6			6		
	Heidenhain linear scale resolution	um	0.05	0.05			0.05					Heidenhain linear scale resolution	um	0.05			0.05		
	Min. increment	mm	0.0001	0.0001			0.0001					Min. increment	mm	0.0001			0.0001		
	Servo motor rated power	kW	1.2(F)/1.5(M)	1.8(F)/2.2(M)			1.8(F)/2.2(M)					Servo motor rated power	kW	1.8(F)/2.2(M)			1.8(F)/2.2(M)		
Z Axis	Travel	mm	750	850 1250 1850 2450			850 1250			Z Axis	Travel	mm	1850 2450			850 1250 1850 2450			
	Swiveling angle	deg	±7	±9 ±7 ±5 ±5			±9 ±7					Swiveling angle	deg	±5 ±5			±9 ±7 ±5 ±5		
	Max. rapid feedrate	m/min	8	10			10					Max. rapid feedrate	m/min	10			10		
	Min. increment	mm	0.0001	0.0001			0.0001					Min. increment	mm	0.0001			0.0001		
	Servo motor rated power	kW	1.2(F)/1.5(M)	1.8(F)/2.2(M)   2.5(F)/3.5(M)			1.8(F)/2.2(M)					Servo motor rated power	kW	2.5(F)/3.5(M)			1.8(F)/2.2(M) 2.5(F)/3.5(M)		
Motor	Hydraulic pump	kW	0.38	0.38			0.38			Motor	Hydraulic pump	kW	0.38			0.38			
	Hydrodynamic GW spindle lubrication pump	kW	0.2	0.2			0.2					Hydrodynamic GW spindle lubrication pump	kW	0.2			0.2		
	Guide way lubrication pump	kW	0.2	0.2			0.2					Guide way lubrication pump	kW	0.2			0.2		
	Coolant pump	kW	0.2	0.2			0.2					Coolant pump	kW	0.2			0.2		
Machine	Net Weight (semi-enclosed splash guard)	kg	3100	5600	5800	6300	6700	5600	5800	Machine	Net Weight (semi-enclosed splash guard)	kg	6300	6700	5600	5800	6300	6700	
	Gross Weight	kg	3500	6420	7500	7800	8200	6420	7500			Gross Weight	kg	7800	8200	6420	7500	7800	8200

## Standard Accessories

Infinite variable workhead w/servo motor  
Diamond Dresser and Stand  
Automatic wheel speed change (15 steps)  
Carbide tip center  
X Axis Heidenhain/Mitsubishi linear scale (resolution 0.05 um)  
Levelling bolts and blocks  
Operation manual and part lists  
Fanuc CNC Controller (0i TF)  
Grinding Wheel + Wheel Flange  
Standard oil cooler (cooling fan)

Standard coolant tank 140L  
MPG handwheel 2 Axes control  
Touch probe (for EGA series only)  
LED working light  
Tools and Tool Box  
Electricity cabinet w/ heat exchanger  
Semi-enclosed splash guard  
Wheel Extractor  
4-color indication signal light  
Electrical wiring diagram

## Optional Accessories

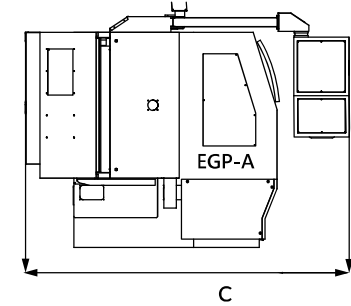
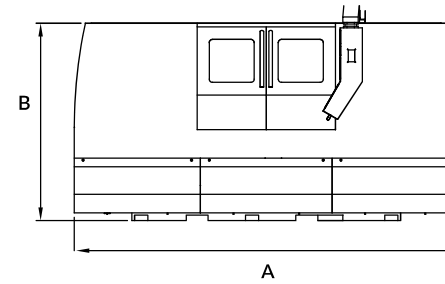
BS VM25 Integration system  
(OD gauging+ crash & gap control + dynamic balance system)  
BS VM15 Integration system  
(OD gauging+ crash & gap control)  
Hydraulic tailstock (w/ foot pedal)  
Z Axis Heidenhain/Mitsubishi linear scale (resolution 0.05 um)  
Manual grinding wheel balance system (vibrator)  
Grinding wheel dynamic balance system  
Wheel spindle lubrication oil cooler for hydrodynamic spindle  
Gap & crash control device  
Safety door lock  
Workhead spindle adjustment arbor  
Auto gauging device  
Coolant system with magnetic separator & paper filter  
Coolant system with magnetic separator  
Coolant system with paper filter  
Oil & mist collecting system  
Spare grinding wheel flange  
Full-Carbide center tip

FANUC 0i-TF iGrind program  
Mitsubishi controller (M80) iGrind program  
Electrical cabinet air conditioner  
Interanl grinding attachment (for EGP series only)  
Workhead upgrade to MT5 (not suitable for 25 series)  
Tailstock upgrade to MT5 (not suitable for 25 series)  
Roller type balancing stand/ arbor  
Automatic 3-jaw hydraulic chuck  
CE standard electrical cabinet  
Touch probe  
Transformer  
Workpiece carrier  
Full-enclosed splash guard  
Workpiece supporting seat, 2pc / set  
2 Point Steady Rest  
3-point steady rest  
3-jaw scroll chuck  
4-jaw scroll chuck

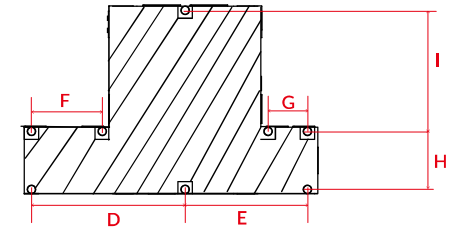
\* E-tech reserves the right to change specifications without notice

Model			EGP-3860A	EGP-38100A	EGP-38150A	EGP-38200A	EGP-5060A	EGP-50100A	EGP-50150A	EGP-50200A
Grinding	Swing over table	mm	Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500
Capacity	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	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 & slide table	mm	192	192	192	192	255	255	255	255
Grinding Wheel	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4(6") NA				Ø510x50-100xØ152.4(6") Opt.Ø610x50-80xØ152.4(6")			
	Motor rated power / max. torque	kW/Nm	7.5kW/49Nm				7.5kW/49Nm(Opt.11kW/ 71Nm)			
	Wheel speed	rpm	1250 (Opt.1650)				1250 (Opt.1650)			
Workhead	Swiveling angle	deg	90				90			
	Spindle speed (infinite variable)	rpm	10 ~ 600				10 ~ 600			
	Motor rated power / max. torque	kW	1.5				1.5			
	Center taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)			
	Spindle type	-	Fixed or Rotary				Fixed or Rotary			
	Diameter of bore	mm	Ø23				Ø23			
Tailstock	Quill travel	mm	25 (Opt.50/75)				25 (Opt.50/75)			
	Center taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)			
X Axis	Travel	mm	270				270			
	Max. rapid feedrate	m/min	6				6			
	Heidenhain linear scale resolution	um	0.05				0.05			
	Min. increment	mm	0.0001				0.0001			
	Servo motor rated power	kW	1.8(F)/2.2(M)				1.8(F)/2.2(M)			
Z Axis	Travel	mm	850	1250	1850	2450	850	1250	1850	2450
	Swiveling angle	deg	±9	±7	±5	±5	±9	±7	±5	±5
	Max. rapid feedrate	m/min	10				10			
	Min. increment	mm	0.0001				0.0001			
	Servo motor rated power	kW	1.8(F)/2.2(M)   2.5(F)/3.5(M)				1.8(F)/2.2(M)   2.5(F)/3.5(M)			
Motor	Hydraulic pump	kW	0.38				0.38			
	Hydrodynamic GW spindle lubrication pump	kW	0.2				0.2			
	Guide way lubrication pump	kW	0.2				0.2			
	Coolant pump	kW	0.2				0.2			
Machine	Net Weight (semi-enclosed splash guard)	kg	5700	6000	6400	6800	5800	6100	6500	6900
	Gross Weight	kg	6500	6800	7200	7600	6600	6900	7300	7700

## Measurement



EGP-A	A	B	C	D	E	F	G	H	I
3860	3500	1800	2760	1270	1010	585	385	480	1000
38100	4300	1800	2760	1670	1410	985	725	480	1000
38150	5600	1800	2760	2270	2010	1325	1585	480	1000
38200	7055	1800	2850	2890	2630	1945	2205	560	1000
5060	3500	1800	2760	1270	1010	585	385	480	1000
50100	4300	1800	2760	1670	1410	985	725	480	1000
50150	5600	1800	2760	2270	2010	1325	1585	480	1000
50200	7055	1800	2850	2890	2630	1945	2205	560	1000



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