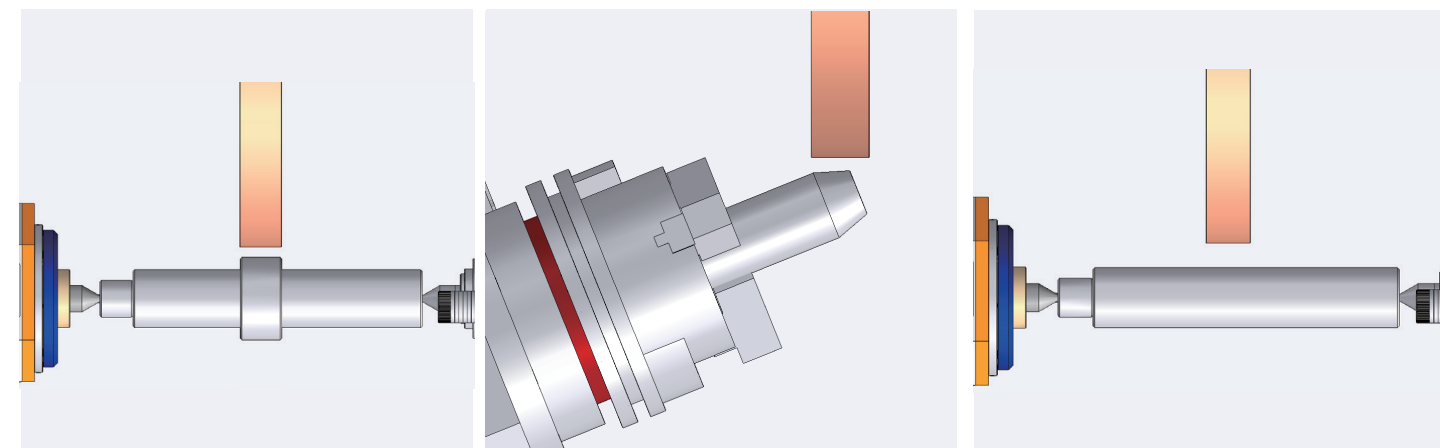


# Cylindrical Grinder

## EGP Series ( NC / Manual )



## Grinder Professionals

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## EGP Cylindrical Grinder

### EGP-20/25/32/38/45

- The EGP series offers a range of 200/250/320/380/450mm swing and a choice of 500/600/1000/1500/2000 mm center distance for various grinding solutions.
- Available in manual infeed(M/H models) and automatic infeed (NC models).



#### machine concept

e-tech Machinery Inc. introduces EGP series Cylindrical grinders, available in manual infeed (M/H models) and automatic infeed (NC models). The EGP series offers a range of 200/250/320/380/450mm swing and a choice of 500/600/1000/1500/2000mm center distance for various grinding solutions. The application is further extended with the optional swing down internal grinding attachment. All models feature a Meehaite box-type machine bed, hydrostatic guideways for work table, a variable speed work-head, a separate hydraulic system, a 3 HP/EGP-2550(for EGP 20) or 7.5HP/EGP32 and above (4P) (EGP 25) spindle motor with a cartridge type spindle, and an automatic lubrication system for superior grinding precision and productivity. NC models are equipped with user friendly PLC control panel with a menu-driven LCD touch screen. Operators need only to select desired grinding cycle and then input setting data to perform automatic grinding cycle. An optional overhead parallel dresser with automatic compensation system to reduce cycle time and obtain better surface finish.

The heavily ribbed box-type base is made of Meehanite castings, with outstanding rigidity and stability. Optimal distance between guideways span offers excellent table supports to increase Z axis positioning accuracy and durability.

The highly rigid-designed workhead is equipped with precision bearings, with the inverter motor 30-350 variable speeds, enables the workhead swivels 90° counterclockwise to 30° clockwise for various grinding operations. A combination of live and fixed-type spindle design allows for quick change over from center tips to chuck operation. The design of the tailstock is both rigid and robust. Housed in a cast body, the hardened alloy steel sleeve is designed to carry an MT4 center or optional MT5 center. An optional hydraulic tailstock with a foot pedal is available for easy loading and unloading of parts. The spring force of the sleeve can be modified through the adjusting switch.

Wheel head infeed system (The double V guideways) is hand scraped and Turcite coated, utilizing an automatic lubrication system, a precision ball screw, and AC servo motor. This combination allows smooth movement of the wheel head and delivers superior positioning accuracy and repeatability.



( Internal Grinding Attachment )

## Machine Control



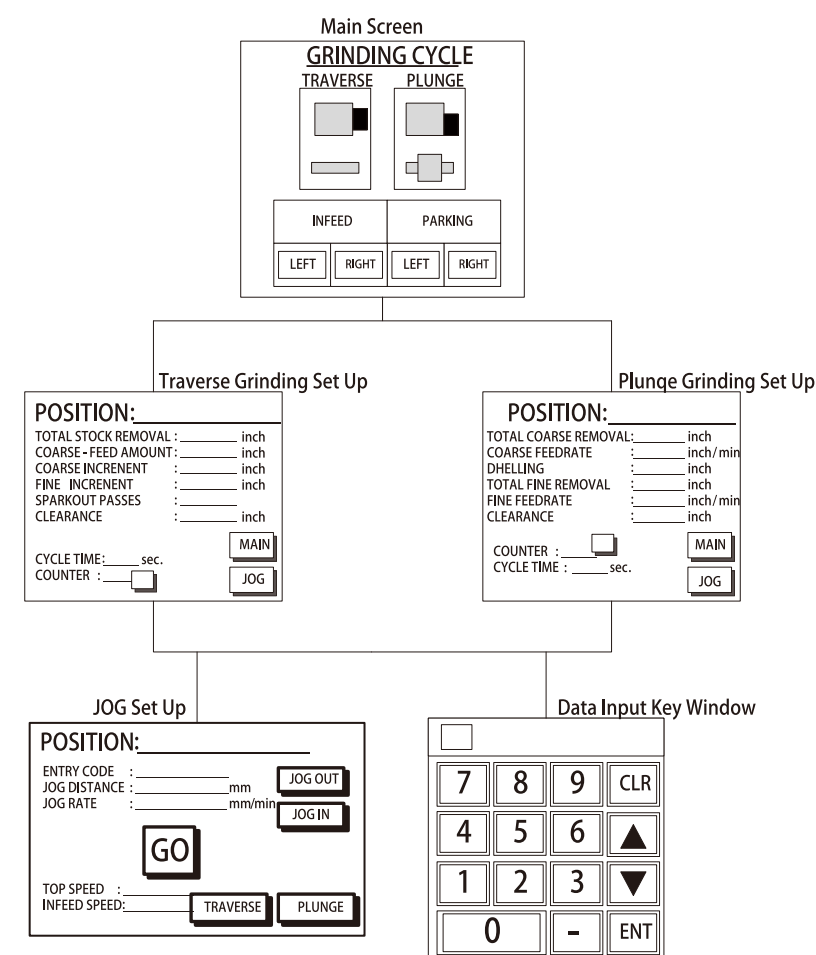
### Control and Software

PLC Control uses a menu-driven LCD touch screen technology for simple operation. (NC Model)

The machine is equipped with a PLC control along with a color touch screen and a user-friendly interface.

The operator can simply set up the grinding amount and start a new grinding cycle.

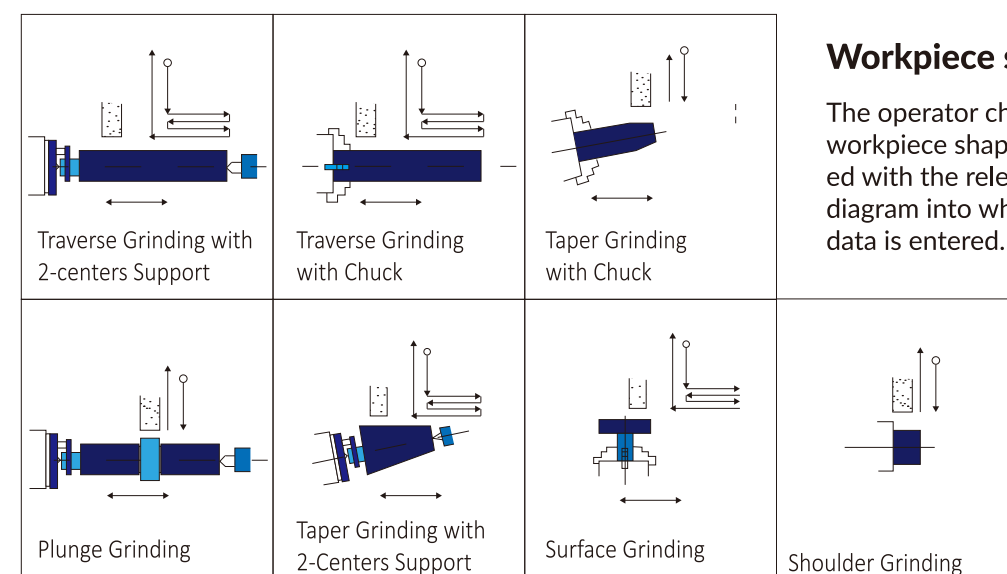
The last grinding cycle setting will be saved automatically and can be easily repeated by simply pressing the "Cycle Start" button.



### PLC Control Panel

Step 1 : Choose the following functions: Grinding mode selection/Infeed selection/Table parking selection/Jog setting/Next screen.

Step2 : Input data to set total stock removal, total fine grinding amount, rough increment, fine increment, spark-out passes and reset distance, and then press cycle start to complete the automatic grinding cycle.



### Workpiece shape selection

The operator chooses a common workpiece shape and is then presented with the relevant workpiece diagram into which the necessary data is entered.



Specifications

Model		EGP2650 H/NC	
General Capacity	Distance between centers	mm	500
	Swing over table	mm	Ø260
	Max. grinding diameter	mm	Ø250
	Max. load held between centers	kg	80
Grinding Wheel	Diameter x Width x Bore	mm	Ø405x50xØ127
	Max. peripheral speed	M/min	1800
Wheelhead	Swiveling angle (Left/Right)		±30°
	Infeed travel	mm	135
	Manual infeed	mm	90
	Top slide travel	mm	180
	Auto increment infeed	mm	45
	Auto increment (NC model )	mm	Ø0.001-Ø0.999
	Handwheel pre graduation(H model)	mm	Ø0.004(0.001/0.01/0.1MPG)
Workhead	Handwheel pre revolution (H model)	mm	Ø2(0.01/0.1/1MPG)
	Swiveling angle (Left/Right)	degree	±45°
	Center taper		MT3(opt. 5C)
Tailstock	Spindle speed	rpm	150/264/356/480 rpm
	Center taper		MT3
	Quill travel	mm	25
Table	Swiveling angle (Left/Right)	degree	±8
	Traverse speed	mm/min	30-7000
	Handwheel per revolution	mm	10
Internal grinding	Spindle speed	rpm	10000/20000/30000(40000/50000 opt)
	Max. grinding bore	mm	Ø30-100/Ø20-50
	Max. grinding length	mm	110/55
	Max. chucking length	mm	315
	Max. chucking diameter	mm	Ø150
Motors	Wheel spindle motor	HP	5(4P)
	Workhead spindle motor	HP	1/2(4P)
	Coolant pump	HP	1/8(4P)
	Hydraulic pump	HP	2(4P)
	Internal grinding motor	HP	2(2P)
Machine	Net weight	kgs	2800
	Gross weight	kgs	3200
	Packing dimension (LxWxH)	mm	2280x2280x1940

Model		EGP32/EGP38/EGP50 60 / 100 / 150 / 200 H/NC	
General Capacity	Distance between centers	mm	600   1000   1500   2000
	Swing over table	mm	Ø320/ Ø380 / Ø500
	Max. grinding diameter	mm	Ø300/ Ø360 / Ø480
	Max. load held between centers	kg	150
Grinding Wheel	Diameter x Width x Bore	mm	Ø405x50xØ127
	Max. peripheral speed	M/min	1650
Wheelhead	Swiveling angle (Left/Right)		±30°
	Infeed travel	mm	245
	Manual infeed	mm	200
	Top slide travel	mm	180
	Auto increment infeed	mm	45
	Auto increment (NC model)		Ø0.001~Ø0.999
	Handwheel pre graduation(H model)	mm	Ø0.004 (0.001/0.01/0.1MPG)
Workhead	Handwheel pre revolution (H model)	mm	Ø2 (0.01/0.1/1MPG)
	Swiveling angle (Left/Right)	degree	±90°
	Center taper		MT4 (opt. MT5, 5C)
Tailstock	Spindle speed	rpm	30-350 (infinite variable speeds)
	Center taper		MT4 (opt. MT5)
	Quill travel	mm	25
Table	Swiveling angle (Left/Right)	degree	±9   ±7   ±5   ±3
	Traverse speed	mm/min	30 - 7000
	Handwheel per revolution	mm	10
Internal grinding	Spindle speed	rpm	10000/20000/30000(40000/50000 opt.)
	Max. grinding bore	mm	Ø30-100 / Ø20-50
	Max. grinding length	mm	110 / 55
	Max. chucking length	mm	315
	Max. chucking diameter	mm	Ø150
Motors	Wheel spindle motor	HP	7.5(4P)/ (10 HP opt.)
	Workhead spindle motor	HP	2 (4P)
	Coolant pump	HP	1/4 (4P)
	Hydraulic pump	HP	2 (4P)
	Internal grinding motor	HP	2 (2P)
Machine	Net weight	kgs	3500   4400   4700   6000
	Gross weight	kgs	4000   4700   5600   6780
	Packing dimension (LxWxH)	mm	3200X2250X1500 4200X2250X1500   5100X2250X1500 6300X2250X1500

All specifications and features are subject to change without further notice.