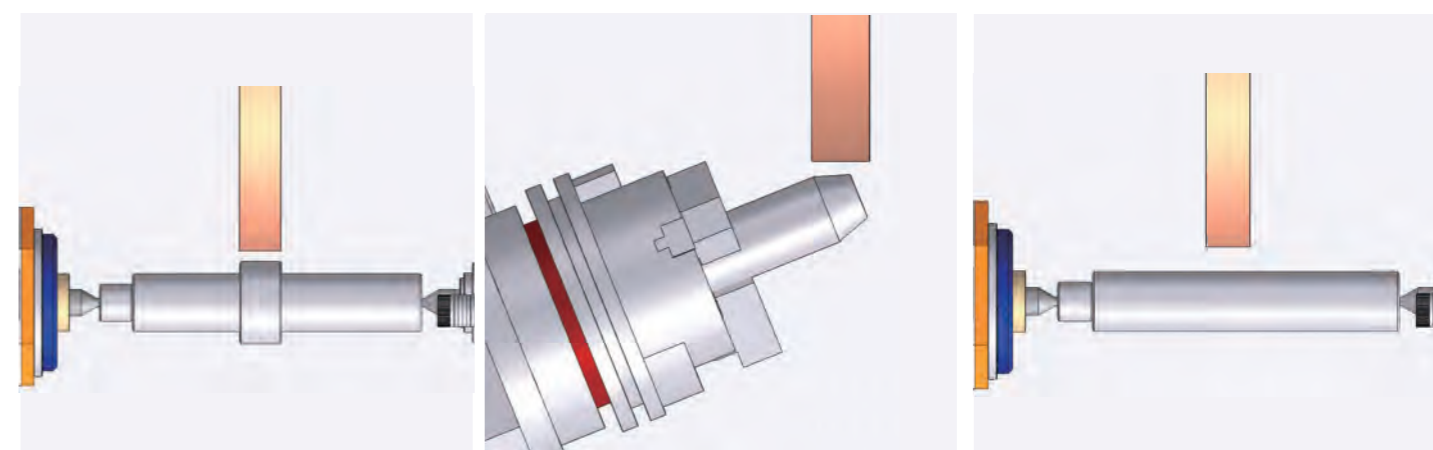


Cylindrical Grinder

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



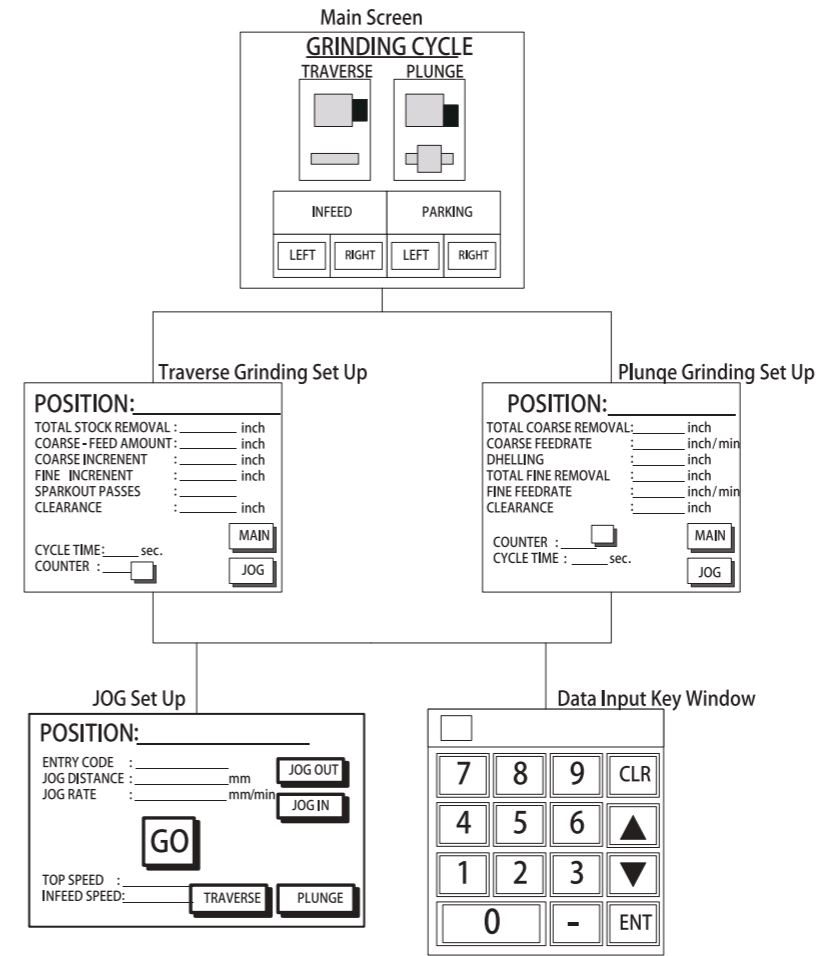
Control and Software

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.

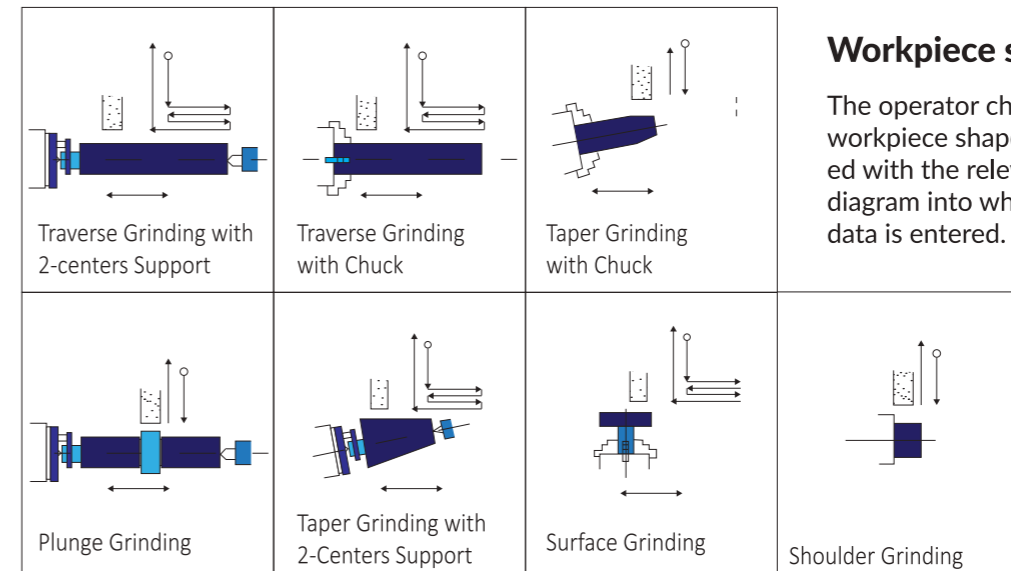
The last grinding cycle setting will be saved automatically and can be easily repeated by simply pressing the "Cycle Start" button.



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			EGP2050 M/NC	EGP2650 H/NC	Model			EGP32/ 60 / 100 / 150 / 200	EGP38 / 150 / 200	EGP45 H/NC
General Capacity	Distance between centers	mm	500	500	General Capacity	Distance between centers	mm	600 1000 1500 2000		
	Swing over table	mm	Ø220	Ø260		Swing over table	mm	Ø320/ Ø380 / Ø450		
	Max. grinding diameter	mm	Ø200	Ø250		Max. grinding diameter	mm	Ø300/ Ø360 / Ø430		
	Max. load held between centers	kg	80	80		Max. load held between centers	kg	150		
Grinding Wheel	Diameter x Width x Bore	mm	Ø355x38xØ127	Ø405x50xØ127	Grinding Wheel	Diameter x Width x Bore	mm	Ø405x50xØ127		
	Max. peripheral speed	M/min	2000	2000		Max. peripheral speed	M/min	2000		
Wheelhead	Swiveling angle (Left/Right)		Fixed	±30°	Wheelhead	Swiveling angle (Left/Right)		±30°		
	Infeed travel	mm	160	135		Infeed travel	mm	245		
	Manual infeed	mm	160	90		Manual infeed	mm	200		
	Top slide travel	mm	-	180		Top slide travel	mm	180		
	Auto increment infeed	mm	-	45		Auto increment infeed	mm	45		
	Auto increment (NC model)	mm	Ø0.001-Ø0.999	Ø0.001-Ø0.999		Auto increment (NC model)		Ø0.001- Ø0.999		
	Handwheel pre graduation	mm	Ø0.005(0.001/0.01/0.1MPG)	Ø0.005(0.001/0.01/0.1MPG)		Handwheel pre graduation	mm	Ø0.004 (0.001/0.01/0.1MPG)		
Handwheel pre revolution	mm	Ø2(0.01/0.1/1MPG)	Ø2(0.01/0.1/1MPG)	Handwheel pre revolution	mm	Ø2 (0.01/0.1/1MPG)				
Workhead	Swiveling angle (Left/Right)	degree	±45°	±45°	Workhead	Swiveling angle (Left/Right)	degree	±90°		
	Center taper		MT3(opt. 5C)	MT3(opt. 5C)		Center taper		MT4 (opt. MT5, 5C)		
	Spindle speed	rpm	150/264/356/480	30-350(infinit variable speeds)		Spindle speed	rpm	30-350 (infinite variable speeds)		
Tailstock	Center taper		MT3	MT3	Tailstock	Center taper		MT4 (opt. MT5)		
	Quill travel	mm	25	25		Quill travel	mm	25		
Table	Swiveling angle (Left/Right)	degree	±8	±8	Table	Swiveling angle (Left/Right)	degree	±9 ±7 ±5 ±3		
	Traverse speed	mm/min	80/140/230	30-7000		Traverse speed	mm/min	30 - 7000		
	Handwheel per revolution	mm	9	10		Handwheel per revolution	mm	10		
Internal grinding	Spindle speed	rpm	8000/15000/20000	8000/15000/20000	Internal grinding	Spindle speed	rpm	8000/15000/20000		
	Max. grinding bore	mm	Ø24-70	Ø24-70		Max. grinding bore	mm	Ø30-100 / Ø20-50		
	Max. grinding length	mm	70	70		Max. grinding length	mm	110 / 55		
	Max. chucking length	mm	275	275		Max. chucking length	mm	315		
	Max. chucking diameter	mm	Ø110	Ø110		Max. chucking diameter	mm	Ø150		
Motors	Wheel spindle motor	HP	3(4P)	5(4P)	Motors	Wheel spindle motor	HP	7.5(4P)		
	Workhead spindle motor	HP	1/2(4P)	1/2(4P)		Workhead spindle motor	HP	2 (4P)		
	Coolant pump	HP	1/8(4P)	1/8(4P)		Coolant pump	HP	1/4 (2P)		
	Hydraulic pump	HP	2(4P)	2(4P)		Hydraulic pump	HP	2 (4P)		
	Internal grinding motor	HP	1/2(2P)	2(2P)		Internal grinding motor	HP	2 (2P)		
Machine	Net weight	kgs	1850	2800	Machine	Net weight	kgs	3500 4400 4700 6000		
	Gross weight	kgs	2250	3200		Gross weight	kgs	4000 4700 5600 6780		
	Packing dimension (LxWxH)	mm	2280x1900x1960	2280x2280x1940		Packing dimension (LxWxH)	mm	3030X2250X2030 3030X2250X2030 4030X2250X2030 5220X2250X2030		

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