



*Grinder Professionals*  
Cylindrical Grinder  
**EGP series**



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# Cylindrical Grinder

## Feature

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.

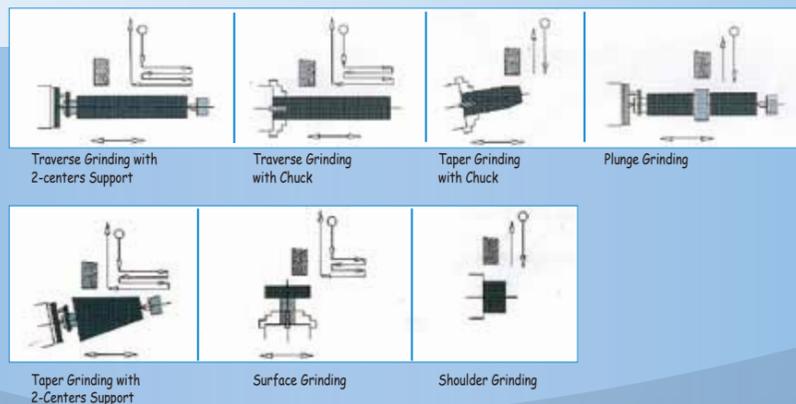
NC models are equipped with user friendly PLC control panel with a menu-driven LCD touch screen. Operators need only to select desired grinding cycle and then input setting data to perform automatic grinding cycle. An optional overhead parallel dresser with automatic compensation system to reduce cycle time and obtain better surface finish.

### EGP 20 SERIES



EGP-2050NC

## Grinding Application



### Workhead

The study rigid-designed workhead equipped with precision bearing is electronically controlled giving variable spindle speeds workhead swivels 90° counterclockwise to 30° clockwise for various grinding operation. A combination live and dead-type spindle allows for quick change over from center to chuck operation or vice versa.

### Tailstock

The design of the tailstock is both rigid and robust. Housed in a cast body, the hardened alloy steel sleeve is designed to carry a MT3 center or optional MT4 center. An optional hydraulic tailstock with foot pedal is available for easy loading and unloading of parts. The spring force of the sleeve can be modified through the adjusting switch.

### Wheelhead

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..

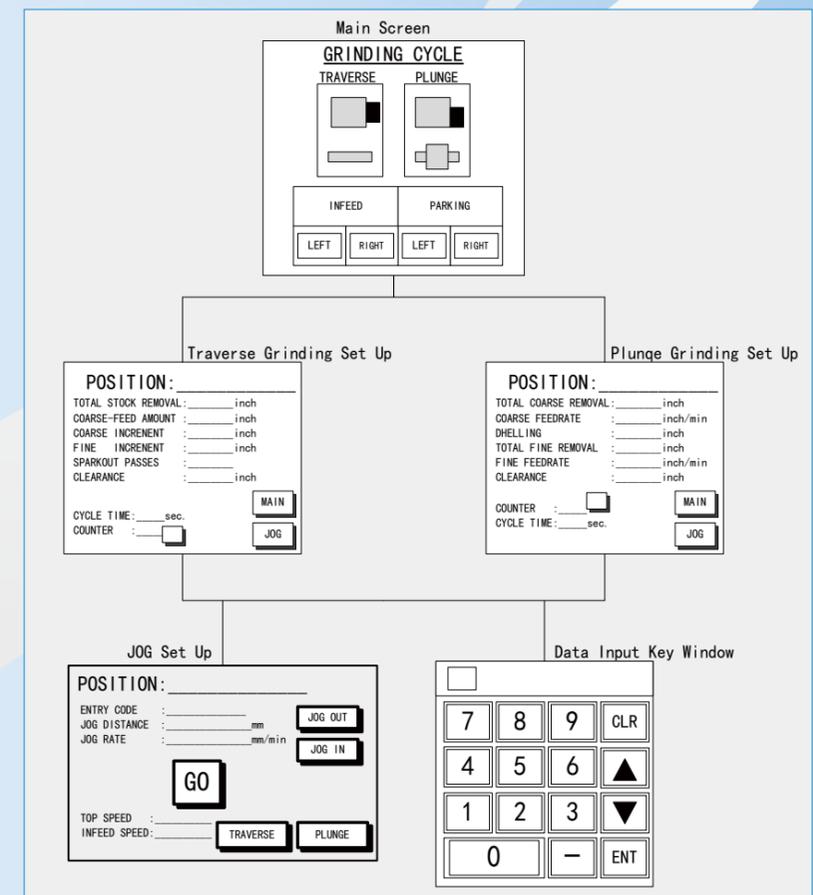
PLC Control uses a menu-driven LCD touch screen technology for simple operation.(NC Models noly)

### Step1

Choose the following functions:  
Grinding Mode Selection  
Infeed selection  
Table Parking Selection  
Jog setting or Next Screen

### Step2

Fill in the blanks to set total stock removal, total fine grinding amount, rough increment, fine increment, spark-out passes, and reset distance, then press cycle start to complete the automatic grinding cycle.



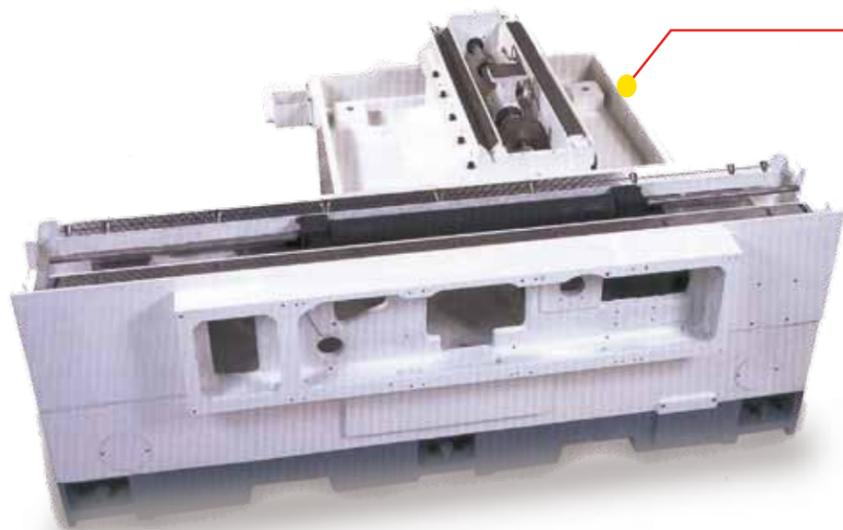
# Cylindrical Grinder

EGP 32 SERIES



EGP-32100NC

## Feature



### Machine Base

The heavily ribbed box-type machine bed 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.

## Feature



### Workhead

The sturdy rigid-designed workhead equipped with precision bearing is electronically controlled giving variable spindle speeds workhead swivels 90° counterclockwise to 30° clockwise for various grinding operation. A combination live and dead-type spindle allows for quick change over from center to chuck operation or vice versa.



### Tailstock

The design of the tailstock is both rigid and robust. Housed in a cast body, the hardened alloy steel sleeve is designed to carry a MT4 center or optional MT5 center. An optional hydraulic tailstock with foot pedal is available for easy loading and unloading of parts. The spring force of the sleeve can be modified through the adjusting switch.



### Wheelhead infeed system (NC TYPE)

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.



### Wheel spindle

A combination of hydrostatic and hydrodynamic bearings, surrounded by a high pressure oil film, eliminates metal-to-metal contact to provide high rigidity as well as high vibration damping performance. A pressure switch interlock prevents spindle start-up until oil pressure is established. This pressure switch interlock also stops the spindle if oil pressure fails. Both features ensure high accuracy and longer spindle life.



### Worktable

A rigid table with box-type construction travels on a cushion of oil with no metal to metal contact for better accuracy and longer way life. An automatic force lubrication system operates continuously to ensure smooth movement and consistency. A swiveling table dial indicator enables rapid cylindrical corrections and taper grinding applications. The table is fully supported in the full travel to avoid overhang.

★ All specifications and feature are subject to change without notice.

### Standard Accessories



Leveling screws w/blocks



Grinding wheel w/flange



Wheel balancing stand



Balancing arbor



MT3/MT4 Center



Wheel extractor

|                                  |
|----------------------------------|
| Balancing arbor                  |
| Wheel extractor                  |
| Grinding wheel w/flange          |
| Tool box w/adjusting tools       |
| Diamond dresser(fixed on table)  |
| Operation manual with parts list |
| Variable speeds workhead         |
| Dial gauge                       |
| Splash guard                     |
| Coolant system                   |
| Auto lube system                 |
| Carbide tip centers              |
| Leveling screws w/blocks         |
| Halogen Light                    |
| Wheel Balancing Stand            |

### Optional Accessories



Internal grinding attachment (EGP20 Series)



Internal grinding attachment (EGP32 Series)



2&3-Point Steady Rest



Radius Dressing Attachment



Angle Dressing Attachment



Micro Wheel Dresser



Roller type balancing stand



Auto compensation dressing attachment



Hydraulic tailstock w/ foot pedal



Chiller



Centrifugal separator



Auto Sizing Device

|  |
|--|
| 3 Jaw scroll chuck+Fixed back plate                |
| 4 Jaw independent chuck+Fixed back plate           |
| Adjustable back plate                              |
| 5C collet closer                                   |
| 5C collets (4-20mm)                                |
| Radius dressing attachment                         |
| Angle dressing attachment                          |
| 2-Point steady rest                                |
| 3-Point steady rest                                |
| Digital readout                                    |
| Roller type balancing stand                        |
| Spare grinding wheel                               |
| Spare wheel flange                                 |
| Micro wheel dresser                                |
| Overhead parallel dressing attachment              |
| Overhead dresser w/auto compensation system        |
| Hydraulic tailstock w /foot pedal                  |
| MT5 taper on workhead & tailstock                  |
| Dynamic wheel balance system                       |
| Coolant system w/magnetic separator & paper filter |
| Auto compensation dressing attachment              |
| Chiller  |
| Internal grinding attachment                       |
| Variable speeds                                    |
| Centrifugal separator                              |
| Auto Sizing Device                                 |

## CYLINDRICAL GRINDER SPECIFICATIONS

Unit:mm

| DESCRIPTION              | MODEL                            | EGP 2050M/NC EGP 2550H/NC EGP 32 / EGP38 / EGP45-60 / 100 / 150 / 200H / NC |                   |                                |                     |                                  |                    |
|--------------------------|----------------------------------|---|-------------------|--------------------------------|---------------------|----------------------------------|--------------------|
|                          |                                  | EGP 2050M/NC  | EGP 2550H/NC      | EGP 32                         | EGP38               | EGP45-60 / 100 / 150 / 200H / NC | NC                 |
| <b>General capacity</b>  | Distance between centers         | 500   | 500               | 600                            | 1000                | 1500                             | 2000               |
|                          | Swing over table                 | Ø220  | Ø260              | Ø320 / Ø380 / Ø450             |                     |                                  |                    |
|                          | Max. grinding diameter           | Ø200  | Ø250              | Ø300 / Ø360 / Ø430             |                     |                                  |                    |
|                          | Max. load held between centers   | 80kgs   |                   |                                | 150 kgs             |                                  |                    |
| <b>Grinding wheel</b>    | Diameter X width X bore          | Ø355 x 38 x Ø127  |                   |                                | Ø405 x 50 x Ø127    |                                  |                    |
|                          | Spindle speed (60HZ / 50HZ)      | 1620 / 1960   | 1800              | 1650                           |                     |                                  |                    |
| <b>Wheelhead</b>         | Swivelling angel(R&L)            | Fixed   | ± 30°             | ± 30°                          |                     |                                  |                    |
|                          | Infeed travel                    | 160   | 135               | 245                            |                     |                                  |                    |
|                          | Hand feed travel                 | 160   | 90                | 200                            |                     |                                  |                    |
|                          | Top slide travel                 | 180   |                   |                                |                     |                                  |                    |
|                          | Automatic rapid travel           | 45  |                   |                                |                     |                                  |                    |
|                          | Auto increment infeed (NC model) | Ø0.001 ~ Ø0.999   |                   |                                |                     |                                  |                    |
|                          | Handwheel per graduation         | Ø0.005  | Ø0.004            |                                |                     |                                  |                    |
|                          | Handwheel per revolution         | Ø2  |                   |                                |                     |                                  |                    |
|                          | <b>Workhead</b>                  | Swivelling angel(R&L)   | ± 45°             |                                | 90°                 |                                  |                    |
|                          |                                  | Center taper  | MT 3 (opt. 5C)    |                                | MT 4 (opt. MT5, 5C) |                                  |                    |
| Spindle speed            |                                  | 150 / 264 356 / 480 rpm   |                   | 30 ~ 350 rpm (variable speeds) |                     |                                  |                    |
| <b>Tailstock</b>         | Center taper                     | MT 3  |                   | MT 4 (opt. MT5)                |                     |                                  |                    |
|                          | Quill travel                     | 25  |                   |                                |                     |                                  |                    |
| <b>Table</b>             | Swivelling angel(R&L)            | ± 8°  |                   | ± 9°                           | ± 7°                | ± 5°                             | ± 3°               |
|                          | Traverse speed                   | 80 / 140 / 230  |                   | 30 ~ 7000 mm / min             |                     |                                  |                    |
|                          | Handwheel per revolution         | 9   |                   | 10                             |                     |                                  |                    |
| <b>Internal grinding</b> | Spindle speed                    | 14000rpm or 25000 rpm   |                   | 12000 / 18000 rpm or 25000 rpm |                     |                                  |                    |
|                          | Max. grinding bore               | Ø24~70  |                   | Ø30 ~ 100 or Ø20 ~ 50          |                     |                                  |                    |
|                          | Max. grinding length             | 70  |                   | 110 or 55                      |                     |                                  |                    |
|                          | Max. chucking length             | 275   |                   | 315                            |                     |                                  |                    |
|                          | Max. chucking diameter           | Ø110  |                   | Ø150                           |                     |                                  |                    |
| <b>Motor</b>             | Wheel spindle motor              | 3 HP (4P)   | 5 HP (4P)         | 7.5 HP (4P)                    |                     |                                  |                    |
|                          | Workhead spindle motor           | 1 / 2 HP (4P)   |                   | 2 HP (4P)                      |                     |                                  |                    |
|                          | Coolant pump                     | 1 / 8 HP (4P)   |                   | 1 / 4 HP (2P)                  |                     |                                  |                    |
|                          | Hvdraulic pump                   | -   |                   | 2 HP (4P)                      |                     |                                  |                    |
|                          | Internal grinding motor          | 1 / 2HP (2P)  |                   | 2 HP (4P)                      |                     |                                  |                    |
| <b>Machine</b>           | Net weight                       | 1850 kgs  | 2800 kgs          | 3500 kgs                       | 3600 kgs            | 4700 kgs                         | 6000 kgs           |
|                          | Gross weight                     | 2250 kgs  | 3200 kgs          | 4000 kgs                       | 4700 kgs            | 5600 kgs                         | 6780 kgs           |
|                          | Packing dimension (L x W x H)    | 2270 x 2270 x 1880  | 2280 x 2280 x1940 | 3030 x 2250 x 2030             | 3030 x 2250 x 2030  | 4030 x 2250 x 2030               | 5220 x 2250 x 2030 |