

Surface Grinding

Semi-automatic series- ESG-1A618/ESG2A618 & ESG-1A818/ESG-2A818

Specifications:

1A: Longitudinal Hydraulic.

2A: Longitudinal Hydraulic And Cross feed Motorized.

| MODEL | | ESG-1A~2A618 | ESG-1A~2A818 |
|--|----------------------------------|---------------------------------------|---------------------------------------|
| Table Size | | 152x460mm(6x18") | 203x460mm(8x18") |
| Max. grinding length | Longitudinal | 480mm(19") | 480mm(19") |
| Max. grinding width | Crosswise | 168mm(6 5/8") | 228mm(9") |
| Max. distance from table surface to spindle centerline | | 460mm(18") | 460mm(18") |
| Standard magnetic chuck size | | 150x450mm(6x18") | 200x450mm(8x18") |
| Longitudinal movement of table | Max. travel, hydraulic | 480mm(19") | 480mm(19") |
| | Max. travel, manual | 510mm(20") | 510mm(20") |
| | Max. travel, infinitely variable | 60HZ, 5-28m/min, 50HZ, 5-23m/min | 60HZ, 5-25m/min, 50HZ, 5-20m/min |
| Cross transverse travel | Auto transverse increment | 1-10mm(0.04"-0.4") | 1-10mm(0.04"-0.4") |
| | Max. auto transverse travel | 180mm(7") | 235mm(9 1/4") |
| | Max. manual transverse travel | 195mm(7 3/4") | 250mm(9 3/4") |
| | Handwheel per revolution | 5mm(0.2") | 5mm(0.2") |
| | Handwheel per graduation | 0.02mm(0.0005") | 0.02mm(0.0005") |
| Sheelhead vertical in feed | Automatic infeed | | |
| | Step feed (jog) | | |
| | Rapid travel, Approx | | |
| | Slow travel, Approx | | |
| | Handwheel revolution | 1mm(0.05") | 1mm(0.05") |
| | Handwheel graduation | 0.005mm(0.0001") | 0.005mm(0.0001") |
| Grinding spindle drive | Speed | 60HZ, 3450 R.P.M. / 50HZ, 2850 R.P.M. | 60HZ, 3450 R.P.M. / 50HZ, 2850 R.P.M. |
| | Power rating | 2.0HP | 2.0HP |
| Standard grinding wheel | Diameter | 203MM(8") | 203MM(8") |
| | Width | 12.7mm (1/2"), MAX. 19mm (3/4") | 12.7mm (1/2"), MAX. 19mm (3/4") |
| | Bore | 31.75mm(1 1/4") | 31.75mm(1 1/4") |
| Hydraulic motor | Power rating | 1HPx6P | 1HPx6P |
| Crossfeed motor | Power rating | 40Wx6P | 40Wx6P |
| Elevating motor | Power rating | 40Wx6P | 40Wx6P |

| | | | |
|---------------------|-----------------------|------------------------------------|---------------------------------------|
| Floor space | Total space required | 1810x1133x1660mm(71"x45" "x65") | 1810x1285x1680mm(71"x50" 1/2"x66") |
| Weights | Net weight, Approx. | 820KGS(1804LBS) | 1170KGS(2574LBS) |
| | Gross weight, Approx. | 970KGS(2134LBS) | 1340KGS(2948LBS) |
| Rated power, Approx | | 3.0HP | 3.0HP |
| Packing dimensions | L x W x H | 1940x1400x1930mm(77"x55" "x76") | 1890x1540x1930mm(75"x61" "x76") |

GENERAL FEATURE:

1. High Precision Cartridge Wheel Spindle :

High precision cartridge type spindle is supported by two preloaded precision angular contact ball bearings & one NN type Roller bearing and driven by V3 class motor that allow high accurate grinding performance. (618/818 series are driven by 2.0HP motor.)

2. High Anti-Wear Guide Ways :

The saddle rests on precision hand-scraped double V ways, and the table rests on precision hand-scraped V and flat ways which coated with "TURCITE-B". These guide ways are equipped with auto lubrication to resist wear of guide ways, plus lasting accuracy and damping.

3. High Rigid Casting Construction :

Machines are casted with high grade casting iron with heavy walls and reinforced ribs to provide excellent rigidity and damping.

4. Enlarged Column And Base :

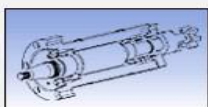
Enlarged column and base create high stability and rigidity. The height of column is increased up to 18" (460mm) from table surface to the center line of spindle.

5. Auto Lube System :

Automatic lubrication system is applied as standard to ensure sufficient lubrication at lead-screws and guide-ways for more longevity.

6. Longitudinal & Cross Drive :

For all models, except 618 & 818 handfeed, the longitudinal movement is driven by hydraulic system; for 2A, 3A, ASD series, the cross movement is driven by motor for more accurate increment feeding.



Spindle For 618, 818 Series



Saddle and table



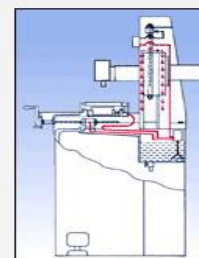
Positioning system(for 614)



Cross slide way



Table Hydraulic Travel
Adjusting I



Auto lubrication system

Standard Accessories:

- Wheel Extrude Screw & Nut
- Tool Box With Tools
- Balancing
- Auto Lubrication System
- Levelling Screw With Blocks
- Diamond Dresser
- Wheel Flange
- Touch-up Paint
- Grinding Wheel
- Crossfed Ballscrew

Optional Accessories :

