

## **Surface Grinding**

### **Automatic (Digital Type)-ESG-120ASDII/1224ASDII/1640ASDII**

#### **Specifications:**

| MODEL                                                  |                                | ESG-1020ASDII                                     | ESG-1224ASDII                       | ESG-1640ASDII                                                                     |
|--------------------------------------------------------|--------------------------------|---------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|
| Table Size                                             |                                | 254x508mm                                         | 300x600mm                           | 406x1020mm                                                                        |
| Max.grinding length                                    | Longitudinal                   | 520mm                                             | 600mm                               | 1020mm                                                                            |
| Max.grinding width                                     | Crosswise                      | 280mm                                             | 330mm                               | 410mm                                                                             |
| Max. distance from table surface to spindle centerline |                                | Standard column:500mm; Optional high column:600mm | 585mm                               | Standard column:630mm; Optional high column:720mm                                 |
| Stadard magnetic chuck size                            |                                | 250x500mm                                         | 300x600mm                           | 400x1000mm                                                                        |
| Longitudinal movement of table                         | Max. travel, hydraulic         | 580mm                                             | 650mm                               | 1060mm                                                                            |
|                                                        | Max. travel, manual            | 620mm                                             | 730mm                               | 1000mm                                                                            |
|                                                        | Max. travel,ininitely variable | 60HZ,5-25m/min,50HZ,5-20m/min                     | 60HZ,5-25m/min,50HZ,5-20m/min       | 60HZ,5-25m/min,50HZ,5-20m/min                                                     |
| Cross transverse travel                                | Auto transverse increment      | 1-13mm                                            | 1-19mm                              | 1-25mm                                                                            |
|                                                        | Auto constant feeding speed    | 270mm                                             | 20-320mm/min                        | 20-320mm/min                                                                      |
|                                                        | Max. auto transverse travel    | 300mm                                             | 310mm                               | 430mm                                                                             |
|                                                        | Max. manual transverse travel  | 320mm                                             | 340mm                               | 460mm                                                                             |
|                                                        | Handwheel revolution           | 5mm                                               | 5mm                                 | 5mm                                                                               |
|                                                        | Handwheel graduation           | 0.02mm                                            | 0.02mm                              | 0.02mm                                                                            |
| Sheelhead vertical infeed                              | Automatic infeed               | 0.001~0.04mm                                      | 0.001~0.05mm                        | 0.001-0.05mm                                                                      |
|                                                        | Step feed (jog)                | 0.001mm                                           | 0.001mm                             | 0.001mm                                                                           |
|                                                        | Rapid travel, Approx           | 150mm/min                                         | 150mm/min                           | 150mm/min                                                                         |
|                                                        | Slow travel, Approx            | 6mm/min                                           | 6mm/min                             | 6mm/min                                                                           |
|                                                        | Handwheel revolution           | 1mm                                               | 1mm                                 | 1mm                                                                               |
|                                                        | Handwheel graduation           | 0.005mm                                           | 0.005mm                             | 0.005mm                                                                           |
| Grinding spidle drive                                  | Speed                          | 60HZ,1750 R.P.M. / 50HZ,1450 R.P.M.               | 60HZ,1750 R.P.M. / 50HZ,1450 R.P.M. | 60HZ,1750R.P.M.;50HZ,1450R.P.M.                                                   |
|                                                        | Power rating                   | 3.0HP                                             | 5.0HP                               | Standard:5HP; Optional:7 1/2HP, 10HP                                              |
| Standard grinding wheel                                | Diameter                       | 203MM                                             | 304mm                               | 355mm                                                                             |
|                                                        | Width                          | 19mm, MAX. 25mm                                   | 31.75mm                             | 50mm                                                                              |
|                                                        | Bore                           | 31.75mm                                           | 76.2mm                              | 127mm                                                                             |
| Hydraulic motor                                        | Power rating                   | 2HPx6P                                            | 2HPx6P                              | 3.0HPx6P                                                                          |
| Crossfeed motor                                        | Power rating                   | 80Wx6P                                            | 80Wx6P                              | 80Wx6P                                                                            |
| Elevating motor                                        | Power rating                   | 80Wx6P                                            | 80Wx6P                              | 1/4Wx6P                                                                           |
| Floor space                                            | Total space required           | 2400x1450x1750mm                                  | 2700x1600x1850mm                    | 4020x2200x2050mm                                                                  |
| Weights                                                | Net weight, Approx.            | 1810KGS                                           | 1990KGS                             | 4000KGS                                                                           |
|                                                        | Gross weight, Approx.          | 2160KGS                                           | 2290KGS                             | 4500KGS                                                                           |
| Rated power, Approx (Standard power rating)            |                                | 5 1/5HP                                           | 8 1/4HP                             | 8 1/2HP(Spindle motor:5HP),11HP(Spindle motor:7.5HP),13 1/2HP(Spindle motor:10HP) |
| Packing dimensions                                     | L x W x H                      | 2480x2060x2100mm                                  | 2480x2140x2100mm                    | 3250x2290x2220mm                                                                  |