

Surface Grinding

Semi-automatic series- ESG-1A124/ESG-2A1224

Specifications:

1A: Longitudinal Hydraulic.

2A: Longitudinal Hydraulic And Crossfeed Motorized.

MODEL		ESG-1A~2A1224
Table Size		300x600mm(11 13/16x23 5/8")
Max. grinding length	Longitudinal	600mm(23 5/8")
Max. grinding width	Crosswise	300mm(11 13/16")
Max. distance from table surface to spindle centerline		585mm(23")
Standard magnetic chuck size		300x600mm(11 13/16x23 5/8")
Longitudinal movement of table	Max. travel, hydraulic	650mm(25 9/16")
	Max. travel, manual	730mm(28 3/4")
	Max. travel, infinitely variable	60HZ, 5-25m/min, 50HZ, 5-20m/min
Cross transverse travel	Auto transverse increment	1-19mm(0.04"-0.75")
	Max. auto transverse travel	310mm(12 3/16")
	Max. manual transverse travel	340mm(13 3/8")
	Handwheel per revolution	5mm(0.2")
	Handwheel per graduation	0.02mm(0.0005")
Sheelhead vertical infeed	Automatic infeed	
	Step feed (jog)	
	Rapid travel, Approx	
	Slow travel, Approx	
	Handwheel revolution	1mm(0.05")
	Handwheel graduation	0.005mm(0.0001")
Grinding spindle drive	Speed	60HZ, 1750 R.P.M.; / 50HZ, 1450 R.P.M.
	Power rating	5.0HP
Standard grinding wheel	Diameter	304MM(12")
	Width	31.75mm(1 1/4")
	Bore	76.2mm(3")
Hydraulic motor	Power rating	2.0HPx6P
Crossfeed motor	Power rating	80Wx6P
Elevating motor	Power rating	
Floor space	Total space required	2700x1600x1850mm(106 1/2x63x73")
Weights	Net weight, Approx.	1950KGS(4290LBS)
	Gross weight, Approx.	2250KGS(4950LBS)
Rated power, Approx		7.5HP
Packing dimensions	L x W x H	2340x2130x2100mm(92x84x83")

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



Enlarged Spindle Set For 1020,
1224 Series



Honeycomb-ribbed Column



Table Speed Control For 1020,
1224 Series



Elevating Transmission 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 :

