

Surface Grinding

Semi-automactic series- ESG-1A1020/ESG-2A1020/ESG-3A1020

Specifications:

1A: Longitudinal Hydraulic.

2A: Longitudinal Hydraulic And Crossfeed Motorized.

3A: Longitudinal Hydraulic, Crossfeed Motorized And Rapid Up/Down Motorized.

MODEL		ESG-1A~2A1020	ESG-3A1020
Table Size		254x508mm(10x20")	254x508mm(10x20")
Max.grinding length	Longitudinal	520mm(20 1/2 ")	520mm(20 1/2")
Max.grinding width	Crosswise	280mm(11")	280mm(11")
Max. distance from table surface to spindle centerline		Standard column:500mm(19 5/8"); Optional high column:600mm(23 5/8")	Standard column:500mm(19 5/8");Optional high column:600mm(23 5/8")
Stadard magnetic chuck size		250x500mm(10"x20")	200x450mm(8x18")
Longitudinal movement of table	Max. travel, hydraulic	580mm(22 3/4 ")	580mm(22 3/4")
	Max. travel, manual	620mm(24 3/8 ")	620mm(24 3/8")
	Max. travel,ininitely variable	60HZ,5-25m/min,50HZ,5-20m/min	60HZ,5-25m/min,50HZ,5-20m/min
Cross transverse travel	Auto transverse increment	1-13mm(0.04"-0.5")	1-13mm(0.04"-0.5")
	Max. auto transverse travel	270mm(10 5/8 ")	270mm(10 5/8")
	Max. manual transverse travel	300mm(11 3/4")	300mm(11 3/4")
	Handwheel per revolution	5mm(0.2")	5mm(0.2")
	Handwheel per graduation	0.02mm(0.0005")	0.02mm(0.0005")
Sheelhead vertical infeed	Automatic infeed		0.001-0.04mm(0.00005-0.002")
	Step feed (jog)		0.001mm(0.00005")
	Rapid travel, Approx		150mm/min
	Slow travel, Approx		6mm/min
	Handwheel revolution	1mm(0.05")	1mm(0.05")
	Handwheel graduation	0.005mm(0.0001")	0.005mm(0.0005")
Grinding spidle	Speed	60HZ,3450 R.P.M. / 50HZ,2850 R.P.M.	60HZ,3450 R.P.M.; /

drive			50HZ,2850 R.P.M.
	Power rating	3.0HP	3.0HP
Standard grinding wheel	Diameter	203MM(8")	203MM(8")
	Width	19mm(3/4"),MAX. 25mm(1")	19mm(3/4"),MAX.25 mm(1")
	Bore	31.75mm(1 1/4")	31.75mm(1 1/4")
Hydraulic motor	Power rating	2HPx6P	2.0HPx6P
Crossfeed motor	Power rating	80Wx6P	80Wx6P
Elevating motor	Power rating	80Wx6P	80Wx6P
Floor space	Total space required	2400x1450x1750mm	240x1450x1750mm(9 4 1/2"x57"x68 1/2")
Weights	Net weight, Approx.	1170KGS	1810KGS(3982LBS)
	Gross weight, Approx.	2130KGS	2160KGS(4752LBS)
Rated power, Approx		5.0HP	5 1/5HP
Packing dimensions	L x W x H	2290x1830x2100mm	2480x2060x2100mm(98"x81"x83")

GENERAL FEATURES :

1.Column:

Enlarged, honeycomb-ribbed column especially suitable for heavy duty grinding.

2.Construction:

Construction of table, saddle and base is casted with high grade iron, strongly ribbed.

3.Spindle:

Enlarged spindle set is supported by four preloaded precision angular contact Ball bearings for heavy duty.

4.Slideways:

Vertical, cross (double vee) and longitudinal (one vee & one flat) slideways are coated with Turcite-B, provides stable movement and durable accuracy.

5Automatic Continuous Lubrication System:

All slideways and screws are fully oiled by automatic continuous lubrication system to eliminate wears on slideways & screws.

6.Cross Feed:

Ball screw for cross travel, powered by AC motor.

7.Hydraulic Table:

Table speed ranges 5-25m/min. With rack and pinion table drive for hand operation.

8.Proximity Switch:

Provide built-in-type (hidden) proximity switch, features safe and easy operation.

9.Table Speed Control:

Presetable hydraulic table speed control allows operator to pre-set speed rate, enable to get same speed rate when engaging hydraulic table every time.

10.Hand Wheels:

Zero-setting slip-ring with vernier on vertical handwheel, and vernier on crossfeed handwheel.



Enlarged Spindle Set For
1020, 1224 Series



Honeycomb-ribbed Column



Table Speed Control For 1020,
1224 Series












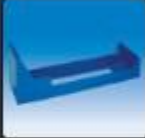





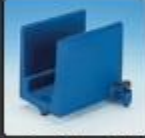












Elevating Transmission
System

Standard Accessories:

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

Optional Accessories :

				
Electro Magnetic Chuck	Inclinable Permanent Magnetic Chuck	Coolant System	Dust Collector	Coolant System With Manual Paper Feeding Device
				
Auto Paper Feeding Device With Magnetic Separator	Full Guarded Splash Guard (10/12/16 Series)	Electro Parallel Dressing Attachment	Coolant and Dust Unit	Coolant System With Magnetic Separator
				
Work Lamp	Splash Guard	Wheel Flange	Manual Parallel Dresser	Chuck Control With Demagnetizer
				
Precision Vice	Punch Former	Balancing Stand (Double Line)	Roller Type Balancing Stand	Micro Crossfeed For 10/12/16 Series
				
Ratchet Type Electro Parallel Dresser (10/12/16 Series)	Digital Readout	Permanent Magnetic Chuck	Micro Down Feed For 10/12/16 Series	Screw Type Parallel Dressing Attachment
				
Concave Convex Forming Dresser	Swivel Wheel Guard	Frequency Changer		