

## Surface Grinding

### Cantilever Type- ESG-6200TD

#### Specifications:

Description	Model	ESG-6200
Table Size		610 x 2060mm (24" x 80")
Max. Grinding length	Longitudinal	2060mm (24")
Max. Grinding width	Crosswise	610mm (24")
Max. Distance from Table Surface to spindle Centerline		720mm (28.35") ; 850mm (33.5")
Standard Magnetic Chuck Size		600x1000mm (23.6" x 39.4") x 2pcs
Longitudinal Movement of Table	Max. Travel, Hydraulic	2100mm (82.7")
	Max. Travel, Manual	2150mm (84.6")
	Max. Travel, Infinitely Variable	60HZ (5-25m/min) & 50HZ (5-20m/min)
Wheelhead Crossfeed Transverse Travel	Auto. Transverse Increment(Jog)	1~25mm (0.04"~1")
	Max. Auto. Transverse Travel	660mm (25.98")
	Max. Manual Transverse Travel	685mm (26.96")
Wheelhead Vertical Infeed(Controlled by Servomotor)	Automatic Infeed	0.001~0.05MM (1~25/10000")
	Step Feed(Jog)	0.001~0.5mm (0.25/10000")
	Rapid Travel, Approx.	460mm (18")/min
	Slow Travel Approx.	6mm (0.25")/min
Grinding Spindle Drive	Speed	60HZ , 1750rpm ; 50HZ , 1450rpm
	Power Rating	Standard 10HP/4P (7.5KW)
		Optional 15HP/4P (11.25KW) ; 20HP/4P (15KW) ; 25HP/4P (18.75KW)
Standard Grinding Wheel	Diameter x Width x Bore	400mm(16") x 50mm(2") x 127mm(5")
Hydraulic Motor	Power Rating	10HP/6P (7.5KW)
Crossfeed Motor	Power Rating	1.5KW/Servo
Elevating Motor	Power Rating	1.0KW/ Servo
Total Space Required (L x W x H)		7200 x 3500 x 2450mm
		(284" x 138" x 97")
Weight	Net Weight	13500 Kgs
	Gross Weight	15000 Kgs
Total Power, Approx. (Standard power Rating)		23.5 (17.5KW)
Packing Dimensions	L x W x H mm (inch)	6060 x 2300 x 2540mm (239" x 91" x 100")

## FEATURES :

### 1. Enlarged Column :

The enlarged column is strongly ribbed and is especially suitable for heavy-duty grinding.

### 2. Construction :

The table, saddle and base are cast with high grade casting iron and are also strongly ribbed for the ultimate precision and rigidity.

### 3. Spindle :

The spindle is supported by four front & two rear precision contact angular ball bearings.

### 4. Excellent Abrasion Resistant Hydraulic Slideway :

The enlarged, double "V" slideway for the table features a low speed ratio, no shipping/adherence effect and vibration absorption. The hydraulic slideway ensures no friction, no backlash and remarkable precision.

### 5. Automatic Continuous Lubrication System :

All slideways and screws are fully oiled by Automatic Continuous Lubrication System to eliminate wears on slideways & screws. Adopt advanced hydraulic slideway to extend machine lives.

### 6. Crossfeed Ballscrew :

The saddle cross movement is achieved by a special AC servomotor for the ballscrew transverse. It features auto rapid cross movement.

### 7. Switch :

Provides a hidden-type, no touch proximity switch for transverse control. This ensures safe and easy operations.

### 8. Table Speed Control :

The pre-settable hydraulic table speed control allows the operator to pre-set speed rates. This enables the same hydraulic table speed rate every time.

### 9. TD Control Panel :

Vertical feed powered by an efficient AC servomotor for rapid or slow up / down movement.

It's also used for micro down feed positioning.

Vertical positioning is displayed on the screen showing present spindle position.

The other digital screen is for setting the start point, rough grinding volume, starting point for finish grinding (finish grinding volume), downfeed volume for finish grinding, target point, rise up point, intermittent spark-out, and for final spark-out.

Cross transverse travel is powered by a AC servomotor. This allows step feeding & continuous infeed grinding. The speed of wheel dressing can be adjusted on the panel



Enlarge Oil Tank & Cooling System



Patented Preset Table Speed Control



Dressing Attachment (Manual type)



Manual Pulse Generator for Y axis, Z axis



Vertical Linear way, V3 Class Leading Ballscrew for Vertical Movement



Crossfeed AC Servomotor Drive



Vertical AC Servomotor Drive

## Optional Accessories:



Electromagnetic Chuck



Coolant System With Magnetic Separator



Auto Paper Feeding Device With Magnetic Separator



Dynamic Balancer



Chuck Control With Demagnetizer



Punch Former



Hydraulic Oil Cooling Device



Work Lamp



Balancing Stand (Double Line)



Roller Type Balancing Stand



Wheel Flange



Digital Readout



Frequency Changer