



EQUIPTOP HIGH PRECISION SURFACE GRINDERS

Innovation · Perfection · Technology · Value



2017 Taichung city
the 16th excellent
SMEs Golden hand award.



2017 The 14th
National brand:
Remarkable enterprise
Yushan Award.



2017 Republic of China
prominent enterprise
management association,
the 18th golden peak award:
Top 10 remarkable innovative
research and development.



2017 Republic of China
prominent enterprise
management association,
the 18th golden peak award:
Top 10 excellent business
pioneer model.



Small & Medium
Enterprise Administration
Ministry of
Economic Affairs :
2018 The Rising Star Award



ISO 9001: 2015



Machinery
Directive
Number 1674



Taiwan SMEs
Innovation Award

EQUIPTOP HISTORY

- 1988 Established " EQUIPTOP MACHINERY CO., LTD" Made a speciality of developing high precision surface grinders.
- 1990 Developed ESG-618 & 818 ASD series, 3 axis fully automatic surface grinders. Used PC-CAD to upgrade mechanical design and development.
- 1992 Developed ESG-1228 & 1236 ASD series, 3 axis fully automatic surface grinders.
- 1993 Developed ESG-1632 & 1640 ASD series, 3 axis fully automatic surface grinders.
- 1995 Developed ESG-1020 & 1224 ASD series, 3 axis fully automatic surface grinders.
Obtained CE-Mark certificate from AMTRI CE in England.
- 1997 Developed ESG-2448 to 2480, 3axis fully automatic, digital positioning ADX series, with a downfeed jog movement providing just 0.5 μ m super microfeed for finer production finish. Column type surface grinder, using high anti-wear, heavy duty preloaded, H class linear guideway.
- 1998 Awarded ISO 9002 Certification by DNV company of Netherlands.
- 1999 Invested in "NANJING EQUIPTOP PRECISION MACHINERY CO., LTD." as branch in China.
- 2000 Developed ESG-3260 to 32120, 3axis fully automatic, smart digital positioning ADX series.
Reveived certified CE-MARK by DNV company.
- 2001 Awarded Certified ISO 9000 by Bell company.
Developed NC series, 3 axis fully automatic smart digital positioning grinders.
- 2002 Grand Opening of a new factory. The new facility is over 13,000m².
Invested 1.6 hundred million dollars in this new headquarters.
Successfully developed new complex grinders, moving EQUIPTOP into the high technology area.
Renamed the company as "EQUIPTOP HITECH CORP."
- 2003 Awarded publication 2000 ISO 9001 certification. Developed " ASD II " series, 3 axis, fully automatic digital positioning grinders.
Developed " ACUMEM " super microfeed servo control and auto-wheel dressing & compensation system grinders.
- 2004 Established the branch in Wu Hsi-Shuai Hung Precision Machinery LTD. to expand China market.
Developed cantilever type ESG-6120~8300 ASD II series, 3 axis, fully automatic surface grinders.
- 2005 Obtained the prize of Taiwan Precision Product in manufacturing NC surface profile grinder.
- 2006 Developed ETM510APC tapping machine with auto pallet changer system & Double column grinding machine, table size 1500x3000~1500x5000 are available.
- 2008 Double column grinding machine, table size 1500x3000~1500x5000 are available.
- 2010 Upgrade ASD II series to TD type. PLC control & touch color screen.
- 2012 Double column type grinding machine, table size 1200x3000~1200x5000 are available.
Developed ESG-2448 to 24120, 3axis fully automatic TD type with touch color screen.
- 2013 Execute rotary & square constitute, hydrostatic spindle and guide rail program.
Presented EMV-600APC auto pallet change, and 800 x2000~5000mm, 1000x2000~5000 mm double column grinders.
- 2016 **Innovation patented invention:**
1. Innovation surface grinding machine controller: **Patent No.:1546161**
2. Innovation equal feeding speed control: **Patent No.:M454893**
3. Innovation rotary & square constitute design: **Patent No.:1508818 & M454892**
4. Innovation multi-sound alarm light structure: **Patent No.: M486838**
- 2017 Presented at TIMTOS, March 2017, 1224-TD Plus, EG-36 CNC and ERG-600CNC, with man-machine controller.
The operation and application showed In an Industrial 4.0 demonstration line.
Winning with honor: D&B TOP 1000 SMEs Elite Award
The 14th National brand: Remarkable enterprise Yushan Award.
Taichung city the 16th excellent SMEs Golden hand award.
Republic of China prominent enterprise management association, the 18th golden peak award:
Top 10 excellent business pioneer model.
Republic of China prominent enterprise management association, the 18th golden peak award:
Top 10 remarkable innovative research and development
- 2018 Golden torch prize: TD, ADC get Research and Innovation Award.
Golden torch prize: TD, ADC have the honor to win best satisfaction from customer.
Small & Medium Enterprise Administration Minsistry of Economic Affairs : The Rising Star Award.
Taiwan SMEs Innovation Award

GRINDERS FEATURES

UF / ESG-618 MANUAL TYPE.

UF / ESG-618M / 818M MANUAL TYPE(BALLWAY)

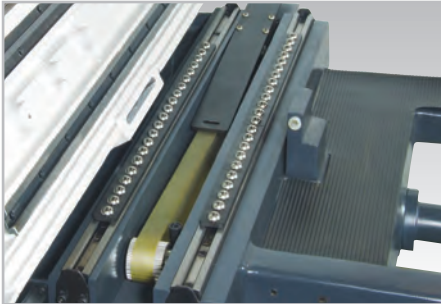
1 A : LONGITUDINAL HYDRAULIC.

2 A : LONGITUDINAL HYDRAULIC AND CROSSFEED MOTORIZED.

3 A : LONGITUDINAL HYDRAULIC, CROSSFEED MOTORIZED AND RAPID UP / DOWN MOTORIZED.

ASD II : FULLY AUTOMATIC IN 3 AXIS(X.Y.Z) WITH STEPPING MOTOR FOR DOWNFEED, AND AC MOTOR FOR RAPID UP / DOWN & DIGITAL POSITIONING.

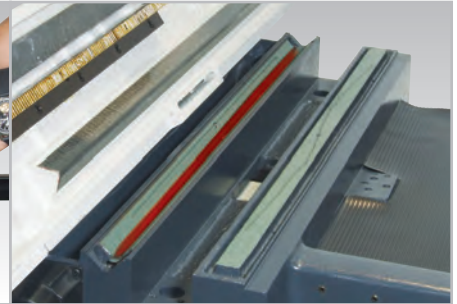
TD : EQUIPPED PLC CONTROL AND MAN-MACHINE 7.2" TOUCH COLOR SCREEN.



Patented steel wire timing belt transmission system (for 618M / 818M only) High precision slides way & steel balls assemble that allow lasting accuracy and smooth movement.



Indexible table handwheel (Manual type only)



Hand scrapped one "V" one " - " Turcite-B slide ways for table longitudinal movement.

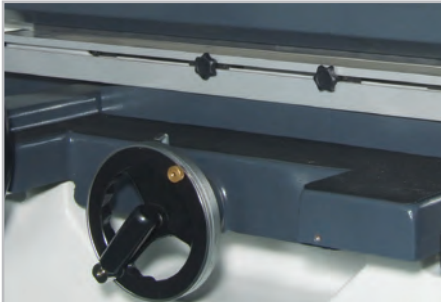


Table travel adjustment, provide built-in-type (hidden) proximity switch, features safe and easy operation (for 1A above).



2A, 3A, ASD models cross traverse system



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.

MANUAL SERIES



UF-618 / UF-618M ; UF818 / UF-818M



ESG-618 / ESG-618M ; ESG-818 / ESG-818M

UF / ESG-618 MANUAL TYPE

UF / ESG-618M / ESG-818M MANUAL TYPE (BALL WAY)

HYDRAULIC SERIES



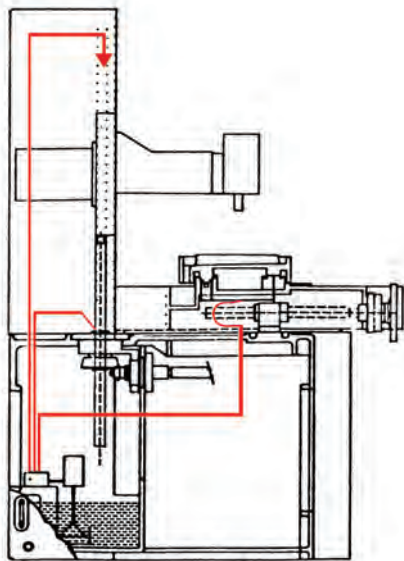
ESG-1A618 / ESG-1A818
ESG-2A618 / ESG-2A818
ESG-3A618 / ESG-3A818



ESG-1A1020 / ESG-2A1020 / ESG-3A1020
ESG-2A1224 / ESG-3A1224

- 1 A : LONGITUDINAL HYDRAULIC.
- 2 A : LONGITUDINAL HYDRAULIC AND CROSSFEED MOTORIZED.
- 3 A : LONGITUDINAL HYDRAULIC, CROSSFEED MOTORIZED AND RAPID UP / DOWN MOTORIZED.

HYDRAULIC SERIES



Auto lubrication system



ESG-3A1228 / ESG-3A1236

ESG-3A1632 / ESG-3A1640 / ESG-3A1648

HYDRAULIC SERIES



1228-1648 models high precision spindle



cross feed High precision ball screw



Easy-adjust guarded proximity switch (long & cross)



1228-2040 models table speed control



Enlarge double V base. These guide ways are equipped with auto lubrication to resist wear of guide ways, plus lasting accuracy & damping.



Honeycomb-ribbed column

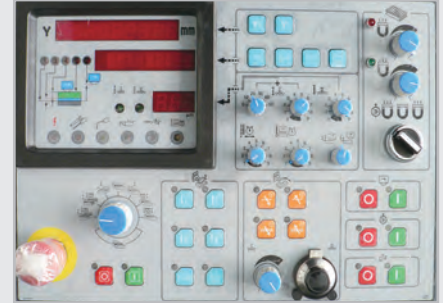
DIGITAL SETTING



ESG-818ASD II / ESG-1020ASD II

ESG-1224ASD II / ESG-1228ASD II / ESG-1236ASD II

ESG-1632ASD II / ESG-1640ASD II / ESG-2040ASD II



ASD II Control Panel

- Vertical feed powered by dual motors; AC motor for rapid up / down. Stepping motor for micro downfeed positioning & slow up / down. Quick digital output feedback by encoder.
- Display the position of Y axis to show present spindle elevation position. The digital display is for setting start point, rough grinding volume, start point for finish grinding(finish grinding volume), downfeed volume for finish grinding, target point, rise up point, intermittent sparkout, and sparkout.
- Cross transverse travel powered by DC servo motor. Allows step feed & continuous infeed grinding. The speed for wheel dressing can be adjusted on the panel.

TD PLC TOUCH PANEL SETTING

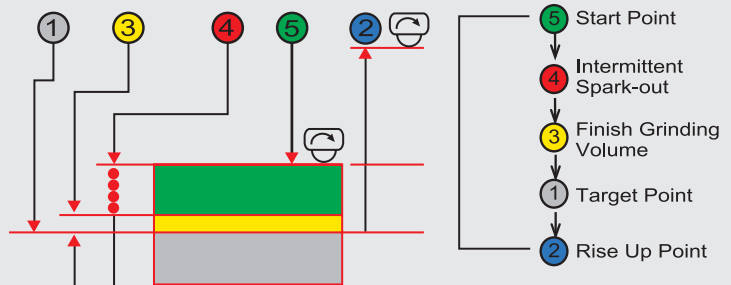
New Generation humanware

- 7.2" color touch screen
- Embedded MPG
- Chuck Control (optional)
- Z axis Cross Travel setting



An interface for Humanware for High Precision

- On TD models, you can set the vertical zero point, start point, finish grinding volume, target point and the grinding wheel rise-up point. The machine features a simple & clear digital display & touch control panel for easy learning and efficient operation.
- Vertical feed powered by an efficient AC servo motor.
- Vertical positioning is displayed on the screen showing present spindle and setting the start point, rough grinding volume, finish grinding volume, downfeed volume for finish grinding, target point, rise up point, intermittent 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.



TD PLC TOUCH PANEL SETTING

An interface for humanistic Technology

COLUMN

Enlarged honeycomb ribbed column especially suitable for heavy duty grinding.

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, and provide stable movement and durable accuracy.

CROSS FEED

Cross feed ball screw is driven by AC servomotor, there are two speed rates - rough grinding speed and finish grinding speed, provide high efficiency.

OPERATION PANEL

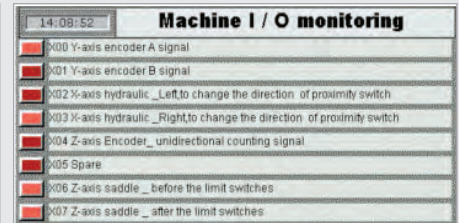
Man-machine 7.2" touch color screen equipped PLC digital control and EQUIPTOP exclusive pictures mode working system, easy to learn and operate.



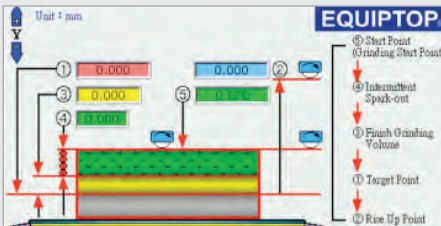
Starting Picture Page



Alarm message



Machine I / O Monitoring



Digit setting for grinding



Downfeed (Rough grinding, Finish grinding, Sparkout setting) Minimum Display Unit:
Y axis 0.001mm / Z axis 0.001mm



System Data

TD PLC TOUCH PANEL SETTING



TD PLC TOUCH PANEL SETTING



ESG-2040TD Full guarded splash guard (optional)

TD PLC TOUCH PANEL SETTING



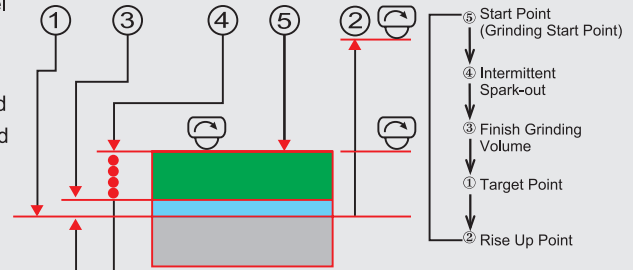
Column Type: ESG-2448TD / ESG-2460TD / ESG-2480TD / ESG-24120TD
ESG-3260TD / ESG-3280TD / ESG-32120TD

ADC SERIES

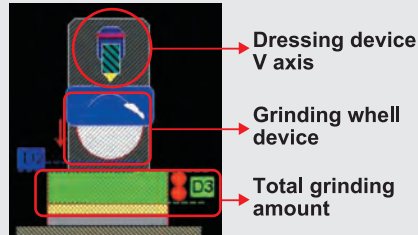
(Auto Dressing & Compensation)

On ADC models, you can set the vertical zero point, start point, finish grinding volume, target point and the grinding wheel rise-up point. The machines features a simple & clear digital display & touch control panel for easy learning and efficient operation.

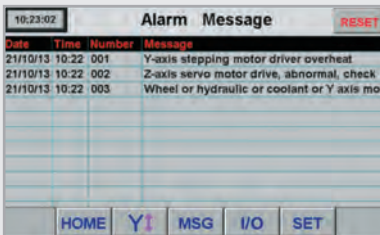
- Vertical feed powered by an efficient AC servo motor.
 - Vertical positioning is displayed on the screen showing present spindle and setting the start point, rough grinding volume, finish grinding volume, downfeed volume for finish grinding, target point, rise up point, intermittent spark-out.
 - Cross 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.



ADC Dressing



Manual Dressing



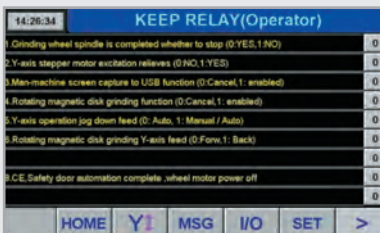
ADC alarm message



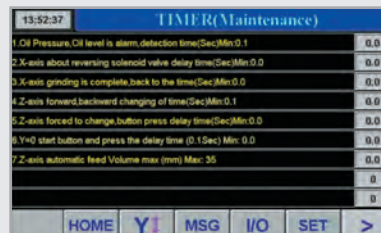
System parameter management setting



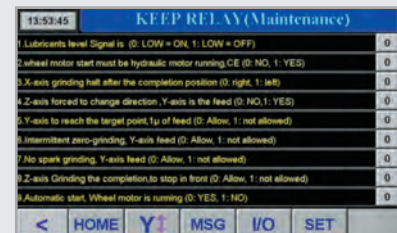
Operator



Keep replay operator



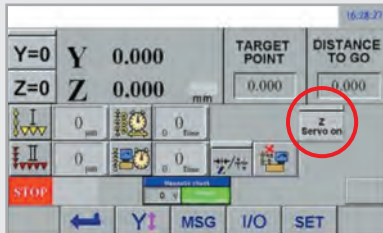
Timer (Maintenance)



Keep replay (Maintenance)

ADC SERIES

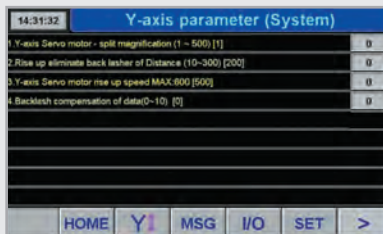
(Auto Dressing & Compensation)



AT Slot Grind Mode, Increase Z-Servo ON Function in HML



Setting password table



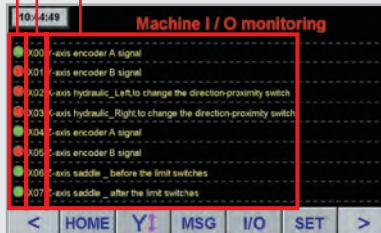
Y-axis parameter (System)



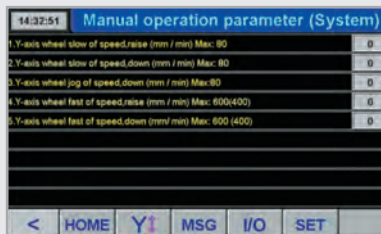
Adjustment brightness

Description of machine monitoring display

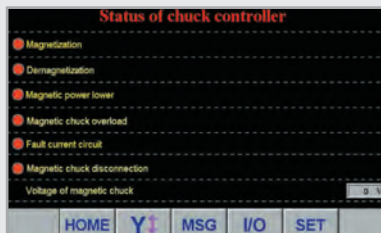
- Lamp numbers
- Input / Output Signal points
- Function description



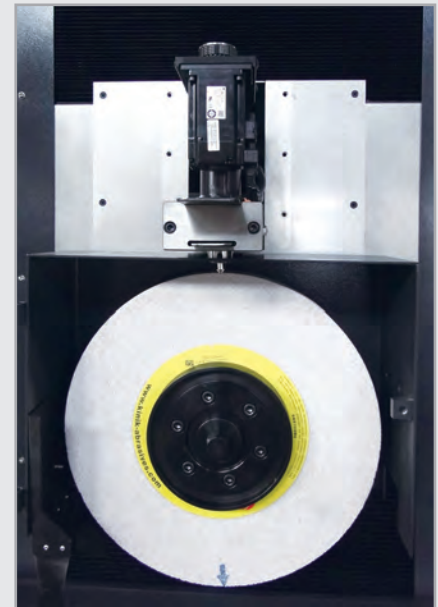
Enter through I/O



Manual operation parameter (System)



Status of chuck controller



Auto wheel top servo dressing & compensation mechanism.

1. PLC Control.
2. Digital setting display.
3. Touch screen panel.
4. Auto wheel top dressing and compensation.
5. Frequency inverter (optional)
6. Full covered splash guard (optional)

ADC SERIES

(Auto Dressing & Compensation)



ESG-2040 ADC Full guarded splash guard (optional)

ADC SERIES

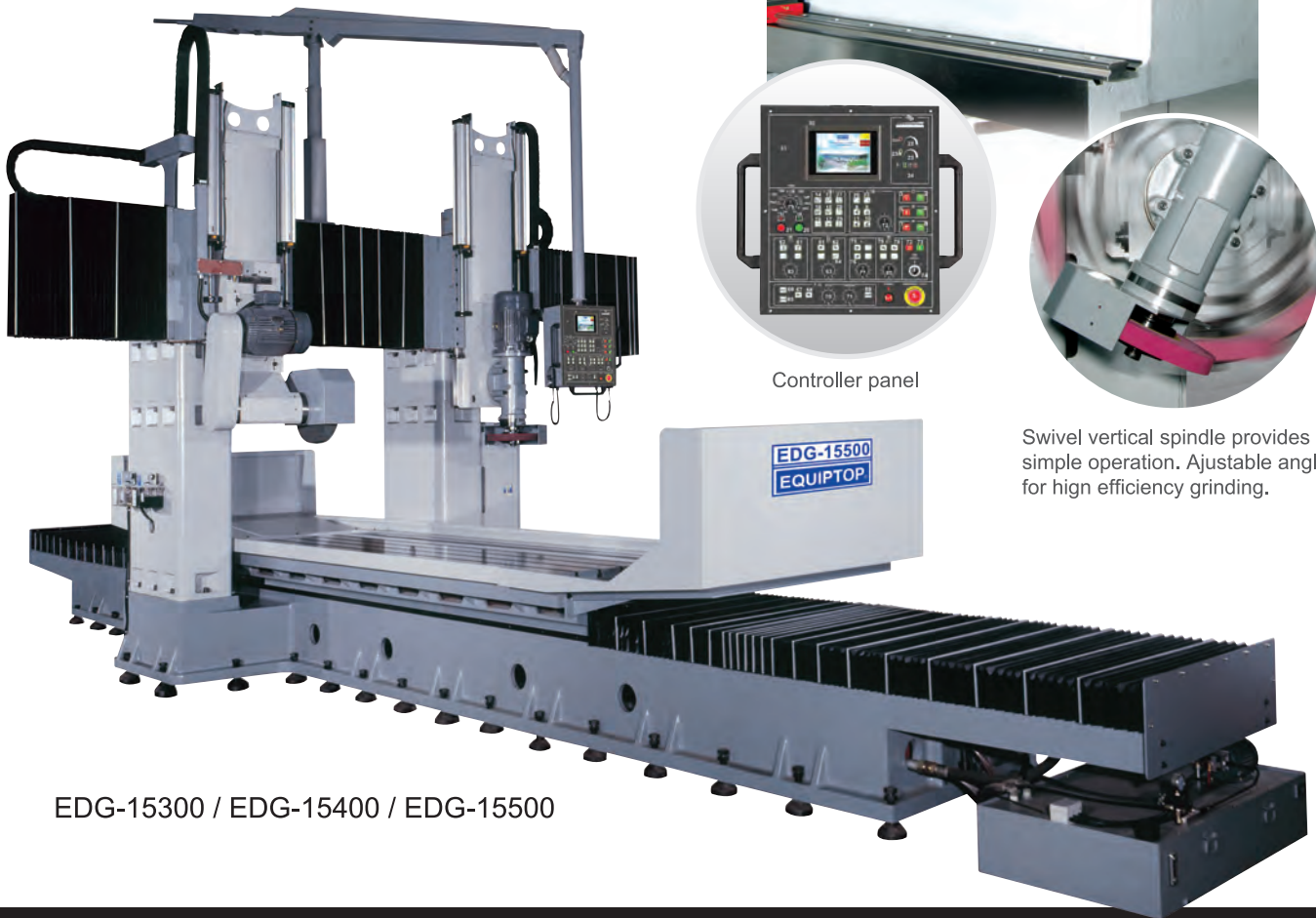
(Auto Dressing & Compensation)



1224ADC / 1228ADC Full guarded splash guard (optional)

DOUBLE COLUMN GRINDER

*Patented linear and
box way structure*



Controller panel



Swivel vertical spindle provides simple operation. Adjustable angle for high efficiency grinding.

EDG-15300 / EDG-15400 / EDG-15500

TD / ADC SPECIFICATION

MODEL		ESG-618 TD	ESG-818 TD	ESG-1020 TD	ESG-1224 TD / ADC	ESG-1228 TD / ADC	ESG-1236 TD / ADC	ESG-1632 TD / ADC	ESG-1640 TD / ADC	ESG-2040 TD / ADC
DESCRIPTIONS										
TABLE SIZE	L x W	152 x 460mm	203 x 460mm	254 x 508mm	300 x 600mm	305 x 712mm	305 x 915mm	406 x 813mm	406x1020mm	506x1020mm
Max. grinding length	Longitudinal	480mm		520mm	600mm	712mm	915mm	813mm	1020mm	1020mm
Max. grinding width	Crosswise	178mm	228mm	280mm	300mm	330mm		410mm		500mm
TABLE loading	MAX. loading	160KGS	202KGS	280KGS	310KGS	346KGS	379KGS	420KGS	428KGS	465KGS
Max. Distance from table surface to spindle centerline		460mm		Standard column: 500mm Optional high column: 600mm	585mm	Standard column: 630mm / Optional high column: 720mm				
standard magnetic chuck size		150 x 450mm	200 x 450mm	250 x 500mm	300 x 600mm	300 x 700mm	300 x 900mm	400x800mm	400 x 1000mm	500 x 1000mm
Longitudinal movement of table	Max. Travel, hydraulic	480mm		580mm	650mm	760mm	960mm	890mm	1060mm	1060mm
	Max. Travel, manual	510mm		620mm	730mm	830mm	1000mm	930mm	1100mm	1100mm
	Max. Travel, infinitely variable	60HZ, 5-25 m/min ; 50HZ, 5-20 m/min								
Cross transverse travel	Auto transverse increment	0.1-10mm		0.1-13mm	0.1-19mm	0.1-25mm				
	Auto constant feeding speed	20-320mm/min								
	Max. auto transverse travel	180mm	235mm	270mm	310mm	350mm		430mm		510mm
	Max. manual transverse travel	195mm	250mm	300mm	340mm	380mm		460mm		520mm
	Handwheel per revolution	5mm								
	Handwheel per graduation	0.02mm								
wheelhead vertical infeed	Automatic infeed	0.001 - 0.1mm								
	step feed(Jog)	0.001mm								
	Rapid travel, Approx	400mm/min								
	Slow travel Approx.	6mm/min								
Grinding spindle drive	Speed	60HZ, 3450 R.P.M. ; 50HZ, 2850 R.P.M.				50HZ / 60HZ, 1450 / 1750R.P.M.				
	Power rating	2.0HP		3.0HP	5.0HP	Standard: 5HP ; Optional: 7.5HP				7.5HP
standard grinding wheel	Diameter	203mm			305mm	355mm				
	Width	Standard:12.7mm Optional:19mm		Standard: 19mm Optional: 25mm	31.75mm	50mm				
	Bore	31.75mm			76.2mm	127mm				
Hydraulic motor	power rating	1.0HP		2.0HP		3.0HP				
Crossfeed motor	power rating	400W				750W				
Elevating motor	power rating	400W		750W		1KW				
Floor space	Total space required	2840 x 2692 x 1733 mm	2918 x 2692 x1733 mm	3001 x 3100 x 1710 mm	3265 x 3100 x 1810 mm	3608 x 3417 x 1943 mm	4270 x 3337 x 1935 mm	3930 x 3510 x 1943 mm	4580 x 3507 x 1944 mm	4768 x 4075 x 2075 mm
Weights	Net weight, Approx.	850 KGS	1205 KGS	1810 KGS	1990 KGS	3020 KGS	3330 KGS	3400 KGS	4000 KGS	4800 KGS
	Gross weight Approx.	1000 KGS	1375 KGS	2160 KGS	2290KGS	3520 KGS	3700 KGS	4000 KGS	4500 KGS	5200 KGS
Coolant system	power rating	1/8 HP								
Rated power, Approx	power rating	4HP		7HP	9HP	Standard: 10.5HP ; Optional: 13HP				13.5HP
Packing dimensions	L x W x H	1880 x 1630 x 1960 mm	1880 x 1830 x 1960 mm	2450 x 2180 x 2110 mm	2450 x 2180 x 2110 mm	2670 x 2290 x 2240 mm	2930 x 2290 x 2240 mm	2930 x 2290 x 2240 mm	3120 x 2290 x 2240 mm	3500 x 2290 x 2460 mm

GRINDER SPECIFICATION

MODEL DESCRIPTIONS		UF-618 / 618M ESG-618 / 618M ESG-1A618 / 2A618	ESG-3A618 ESG-618ASD II	UF-818M ESG-818 / 818M ESG-1A818 / 2A818	ESG-3A818 ESG-818ASD ESG-818ASD II	ESG-2A1020	ESG-3A1020 ESG-1020ASD ESG-1020ASD II
TABLE SIZE	L x W	152x460mm		203x460mm		254x508mm	
Max. grinding length	Longitudinal	480mm				520mm	
Max. grinding width	Crosswise	178mm		228mm		280mm	
TABLE loading	MAX. loading	160KGS		202KGS		280KGS	
Max. Distance from table surface to spindle centerline		460mm				Standard column: 500mm ; Optional high column:600mm	
standard magnetic chuck size		150x450mm		200x450mm		250x500mm	
Longitudinal movement of table	Max. Travel, hydraulic	480mm				580mm	
	Max. Travel, manual	510mm				620mm	
	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	0.5 -10mm				0.5 -13mm	
	Auto constant feeding speed	20-320mm/min					
	Max. auto transverse travel	180mm		235mm		270mm	
	Max. manual transverse travel	195mm		250mm		300mm	
	Handwheel per revolution	5mm					
	Handwheel per graduation	0.02mm					
wheelhead vertical infeed	Automatic infeed	ASD : 0.001-0.04mm / ASD II : 0.001-0.1mm					
	step feed(Jog)	-	0.001mm	-	0.001mm	-	0.001mm
	Rapid travel,Approx	-	270mm/min	-	270mm/min	-	270mm/min
	Slow travel Approx.	-	6mm/min	-	6mm/min	-	6mm/min
	Handwheel revolution	1mm ★ASD II : Min. display value: 0.001mm (no elevating handwheel)					
	Handwheel graduation	0.005mm ★ASD II : Min. display value: 0.001mm (no elevating handwheel)					
Grinding spindle drive	Speed	60HZ, 3450R.P.M. ; 50HZ, 2850R.P.M.					
	Power rating	2.0HP				3.0HP	
standard grinding wheel	Diameter	203mm					
	Width	Standard: 12.7mm ; MAX: 19mm				Standard: 19mm ; MAX: 25mm	
	Bore	31.75mm					
Hydraulic motor	power rating	1HP				2.0HP	
Crossfeed motor	power rating	40W / ASD II : 500W				80W / ASD II : 500W	
Elevating motor	power rating	-	60W	-	60W	-	80W
Floor space	Total space required	2942 x 2401 x 1733 mm		2992 x 2468 x 1733 mm		3001 x 2815 x 1710 mm	
Weights	Net weight, Approx.	820KGS	850KGS	1170KGS	1205KGS	1780KGS	1810KGS
	Gross weight Approx.	970KGS	1000KGS	1340KGS	1375KGS	2130KGS	2160KGS
Coolant system	power rating	1/8 HP					
Rated power,Approx	power rating	3.0HP / ASD II : 4.0HP				5.5HP / ASD II : 6.0HP	
Packing dimensions	L x W x H	1880 x 1430 x 1960 mm	1520 x 2250 x 1960 mm	1550 x 1530 x 1960 mm	2010 x 2270 x 2240 mm	2290 x 1820 x 2080 mm	2290 x 2120 x 2080 mm

NOTE

- 1.The manufacturer reserves the right to modify the design,specifications,mechanisms, etc., To improve the performances of the machine without notice.
All the specifications show below are just for reference.
- 2.Items marked ● are for 2A,3A,ASD II ,TD types only.
- 3.Items marked ■ are for 3A,ASD II ,TD types only.
- 4.Items marked ★ are for ASD II ,TD types only.

Please visit our website for detail specifications:

ESG-2448TD / ESG-2460TD
ESG-2480TD / ESG-24120TD
ESG-3260TD / ESG-3280TD / ESG-32120TD
Double Column Grinders

ESG-2A1224	ESG-3A1224 ESG-1224ASD ESG-1224ASD II	ESG-3A1228 ESG-1228ASD ESG-1228ASD II	ESG-3A1236 ESG-1236ASD ESG-1236ASD II	ESG-3A1632 ESG-1632ASD ESG-1632ASD II	ESG-3A1640 ESG-1640ASD ESG-1640ASD II	ESG-3A2040 ESG-2040ASD ESG-2040ASD II	
300x600mm		305x712mm		305x915mm	406x813mm	406x1020mm	506x1020mm
600mm		712mm		915mm	813mm	1020mm	1020mm
300mm		330mm			410mm		500mm
310KGS		346KGS		379KGS	420KGS	428KGS	465KGS
585mm		Standard column: 630mm / Optional high column: 720mm					720mm
300x600mm		300x700mm		300x900mm	400x800mm	400x1000mm	500x1000mm
650mm		760mm		960mm	890mm	1060mm	1060mm
730mm		830mm		1000mm	930mm	1100mm	1100mm
60HZ, 5-25m/min ; 50HZ, 5-20m/min							
0.5 -19mm		0.5 - 25mm					
20-320mm/min							
310mm		350mm			430mm		510mm
340mm		380mm			460mm		520mm
5mm							
0.02mm							
ASD:0.001-0.04mm / ASD II :0.001-0.1mm							
-	0.001mm						
-	270mm/min						
-	6mm/min						
1mm ★ASD II : Min. display value: 0.001mm (no elevating handwheel)							
0.005mm ★ASD II : Min. display value: 0.001mm (no elevating handwheel)							
60HZ, 1750R.P.M. ; 50HZ, 1450R.P.M.							
5.0HP		Standard: 5HP ; Optional: 7 1/2HP					7 1/2HP
305mm		355mm					
31.75mm		50mm					
76.2mm		127mm					
2.0HP		3.0HP					
80W / ASD II :500W							
-	80W	1/4HP					
3265 x 2841 x 1810 mm		3608 x 3417 x 1943 mm	4270 x 3337 x 1935 mm	3290 x 3510 x 1943 mm	4580 x 3507 x 1944 mm	4768 x 4075 x 2075 mm	
1950KGS	1990KGS	3020KGS	3330KGS	3400KGS	4000KGS	5000KGS	
2250KGS	2290KGS	3520KGS	3700KGS	4000KGS	4500KGS	5800KGS	
1/8 HP							
7.5HP / ASD II : 8.0HP		Standard: 8.5HP / ASD II : 9HP ; Optional: 11HP / ASD II : 11.5HP					11HP / ASD II : 11.5HP
2290 x 2120 x 2100 mm	2450 x 2180 x 2110 mm	2670 x 2290 x 2240 mm	2780 x 2290 x 2240 mm	2930 x 2290 x 2240 mm	3120 x 2290 x 2240 mm	3500 x 2290 x 2460 mm	

OPTIONAL ACCESSORIES



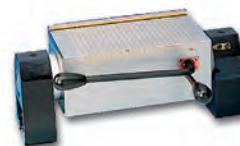
ADJUSTABLE SPEED ROTARY
MAGNETIC CHUCK



PERMANENT MAGNETIC
CHUCK



ELECTRO MAGNETIC
CHUCK



INCLINABLE PERMANENT
MAGNETIC CHUCK



COOLANT SYSTEM WITH MAGNETIC
SEPARATOR



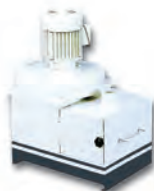
COOLANT SYSTEM



COOLANT AND DUST UNIT



AUTO PAPER FEEDING DEVICE
WITH MAGNETIC SEPARATOR



DUST COLLECTOR



COOLANT SYSTEM WITH MANUAL PAPER FEEDING



FULLY ENCLOSED SPLASH GUARD



MANUAL PARALLEL DRESSING
ATTACHMENT



CHUCK CONTROL WITH
DEMAGNETIZER

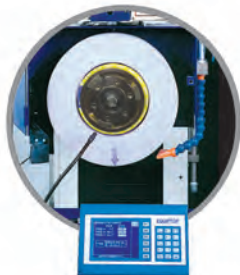


TABLE TYPE SPLASH GUARD



ELECTRIC PARALLEL DRESSING
ATTACHMENT

OPTIONAL ACCESSORIES



DYNAMIC BALANCER



PUNCH FORMER



DIGITAL READOUT



MANUAL PULSE GENERATOR



SPARE WHEEL FLANGE



HALOGEN WORK LIGHT



BALANCING STAND (DOUBLE LINE)



INVERTER



ROLLER TYPE BALANCING STAND



MICRO CROSSFEED FOR 618/818 SERIES



CONCAVE/CONVEX FORMING DRESSER



MICRO DOWN-FEED FOR 1020 SERIES ABOVE



MANUAL PULSE GENERATOR FOR ASD II, TD TYPE



PRECISION VICE



HYDRAULIC OIL COOLING SYSTEM



IT'S VERY WELL
MADE IN TAIWAN



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National patents

- Longitudinal straight movement mechanism of surface grinder.
 - Timing belt straight drive system.
 - Dual motors, positioning and feeding mechanism.
 - Timing belt straight drive system for the table of surface grinder.
 - Roughing and micro table speed control mechanism.
 - Surface grinding table reverse construction.
 - Belt drive mechanism for surface grinding table.
 - Multiple formed grinder.
 - Dust collector.
 - Coolant and dust unit.
 - NC & CNC multiple formed molds.
 - Heats reduce system for motor fan construction.
 - Synchronized machining works system.
 - Dust collector turbine blade construction for surface grinder.
 - The constructions improvement of dust & coolant system for surface grinder.
- German patents :
- Safety handwheel system.



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