

# BIG DATA

## ESG-TDNC Series



Taichung SMEs Golden Hand Award



National Brand Yushan Award



Innovative And Customer Satisfaction



Taiwan Excellence Silver Award



2018 The Rising Star Award



▶ EXCELLENT · FEATURES · PROVIDE · VALUE

HIGH PRECISION SURFACE GRINDERS

An interface for humanistic Technology



**ESG-1224 TDNC**



## Humanware for High Precision



# BIG DATA

Chuck Controller (OPT) —  
10" TFT LCD touch color screen —



## New Generation humanware

### ● 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 and drive by AC servo motor, there are have two speed rates - rough grinding speed and finish grinding speed, provide high efficiency.

### ● OPERATION PANEL

DELTA man-machine 10" touch color screen equipped DELTA PLC digital control and EQUIPTOP exclusive pictures mode working system, easy to learn and operate.

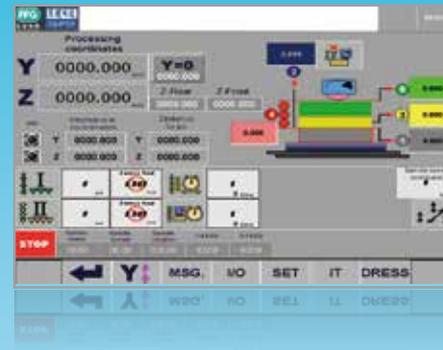
Starting homepage: language selection



input/output signals: Quickly provide maintenance to determine the fault problem



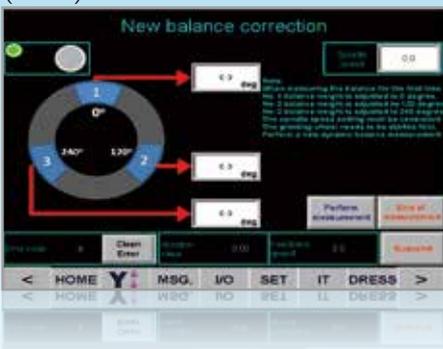
Workpiece grinding condition size setting



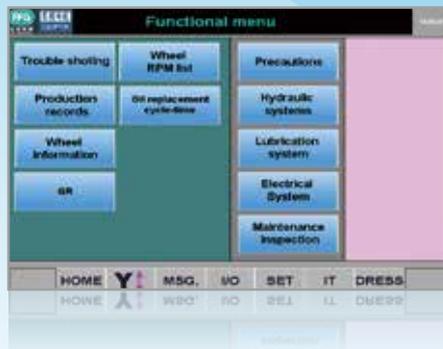
Auto wheel dressing ADC setting screen (OPT)



Manual Dynamic top balance setting (OPT)



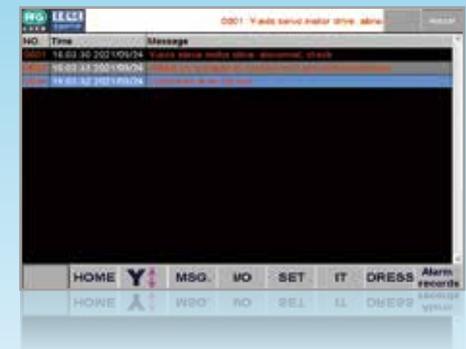
Big Data



Grinding wheel speed comparison chart



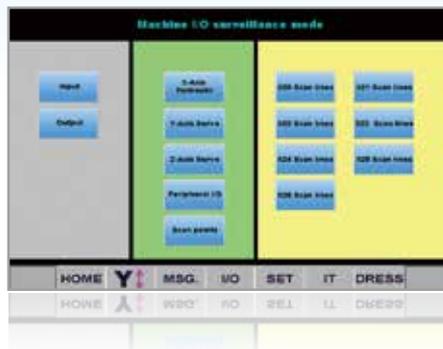
Alarm message



Various parameter setting



Monitoring I/O mode setting



Monitoring I/O information



Oil change information screen



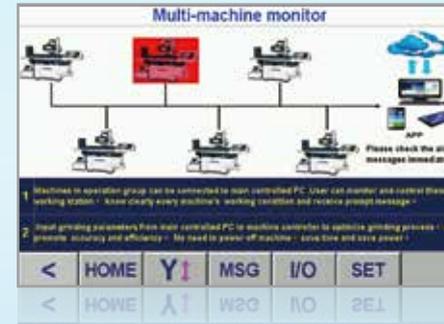
Old service mechanism



New service mechanism

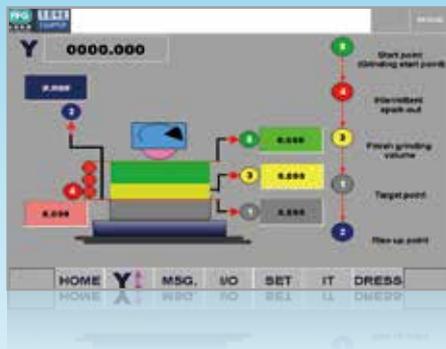


Multi-machine monitoring mode



Easy Touching  
**Convenient**  
 Colorful LCD

Y-axis data setting page



Error exclusion SERVO screen



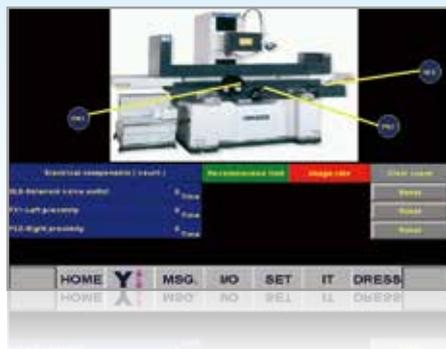
Exception removal instruction screen



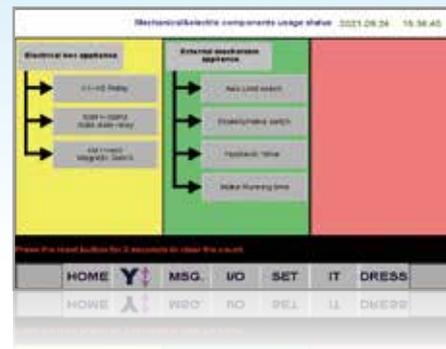
Alarm message



Mechanism and electrical component parameter setting screen



electrical components status



Machine running time



System parameter setting



*ESG-1224 TDNC*



*ESG-818 TDNC*



*ESG-818 TDNC*



ESG-1632 TDNC



ESG-2040 TDNC



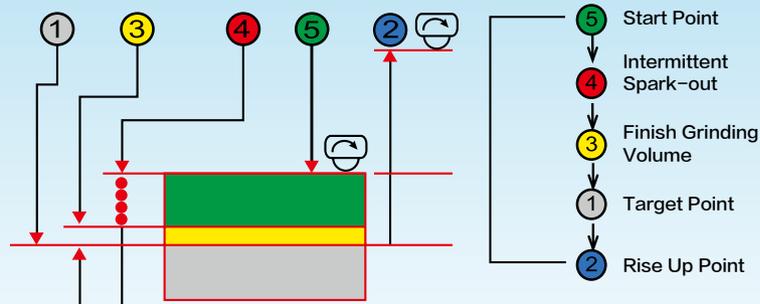
Honeycomb-ribbed column



Servo Motor Driver



- 1 Table speed control
- 2 Easy-adjust guarded proximity switch



■ On TDNC 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.



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

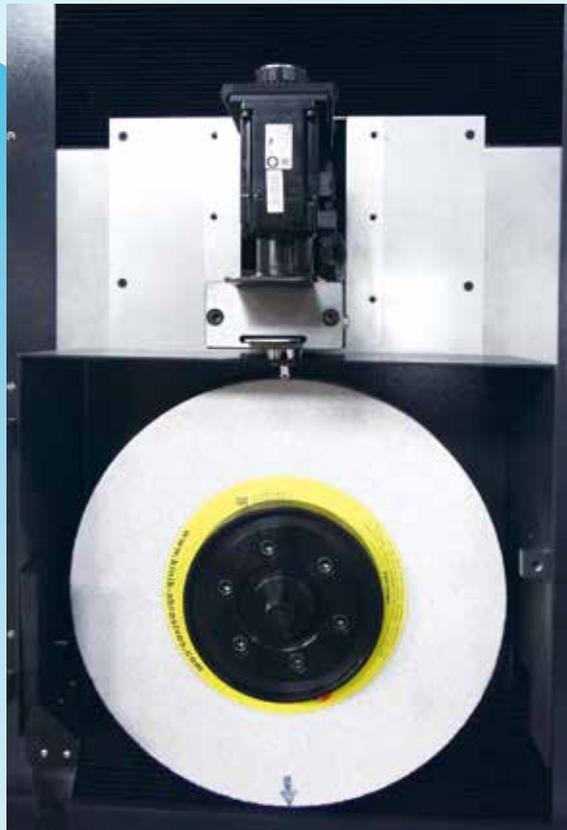


## SPECIAL OPTIONS

### Overhead auto wheel dressing and compensation mechanism

- Overhead auto dressing and compensation system, it can improve processing efficiency and save processing time.
- Auto dresser downfeed by SERVO motor, ensure the accuracy of dressing wheels.
- 1224~2040 TDNC model only.

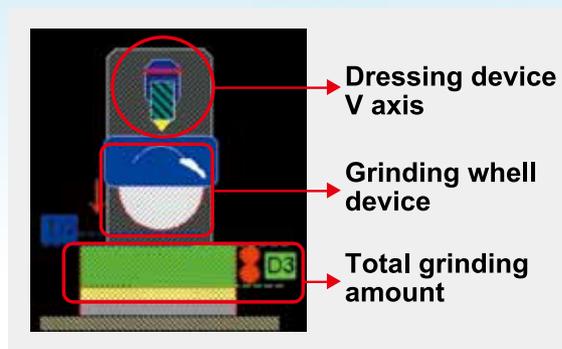
*continuously*  
**Creative**  
*innovation*



ADC dressing

ADC dressing

Manual dressing

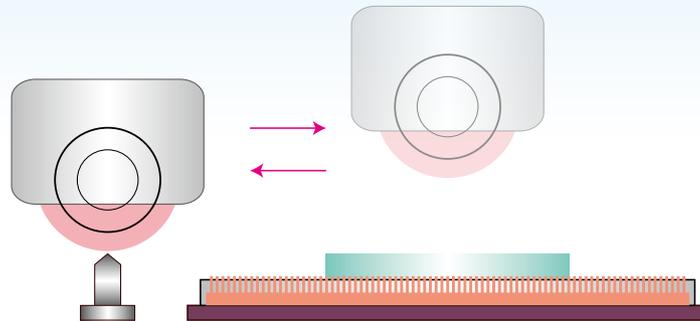




## ***SPECIAL OPTIONS***

### **On table auto wheel dressing and compensation mechanism**

- Positioning on the left side of the work table, auto dressing and compensation.
- It can optional forming diamond wheel auto dressing and compensation mechanism.(TDNC II model)
- 1020~2040 TDNC model only.



*Innovation **Perfection***  
*Technology **Value***

## ESG-TDNC SPECIFICATION

DESCRIPTIONS		MODEL	ESG-818 TDNC	ESG-1020 TDNC	ESG-1224 TDNC	ESG-1228 TDNC	ESG-1236 TDNC	ESG-1632 TDNC	ESG-1640 TDNC	ESG-2040 TDNC
TABLE SIZE	L x W		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		228mm	280mm	300mm	330mm		410mm		500mm
TABLE loading	MAX. loading		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		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		235mm	270mm	310mm	350mm		430mm	510mm	
	Max. manual transverse travel		250mm	300mm	340mm	380mm		460mm	520mm	
	Handwheel per revolution		5mm							
	Handwheel per graduation		0.02mm							
wheelhead vertical infeed	Automatic infeed		0.001 ~ 0.05mm							
	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			10HP	
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		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.		1205 KGS	1810 KGS	1990 KGS	3020 KGS	3330 KGS	3400 KGS	4000 KGS	4800 KGS
	Gross weight Approx.		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 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

NOTE: The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., To improve the performances of the machine without notice.

# EQUIPTOP



Innovation · Perfection · Technology · Value



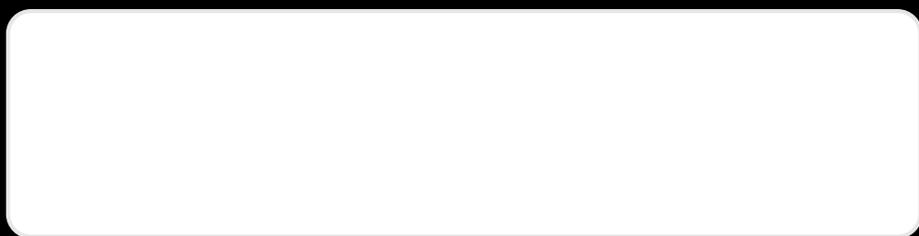
**EQUIPTOP HITECH CORP.** NO. 88, SAN FENG E. RD., HOULI DISTRICT,  
TAICHUNG CITY, TAIWAN 42156

■ TEL: +886-4-25576060

■ FAX: +886-4-25569677.25575866

■ e-mail: [equiptop@hibox.hinet.net](mailto:equiptop@hibox.hinet.net)

■ <http://www.equiptop.com.tw>



*[www.equiptop.com.tw](http://www.equiptop.com.tw)*