



Taiwan SMEs
Innovation Award



ISO 9001:2015



Machinery
Directive
Number 1674



IT'S VERY WELL
MADE IN TAIWAN



FAIR FRIEND GROUP



ESG-CNC Series



Taichung
SMEs
Golden hand
award



National
brand
Yushan
Award



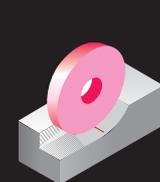
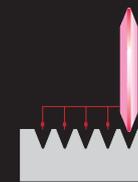
Excellent
business
pioneer
and innovative



Innovative
and
customer
satisfaction



2018
The Rising Star
Award



▶ Innovation · Perfection · Technology · Value

HUMANIZED SERVO CONTROL SYSTEM
PRECISION CNC GRINDERS

Direct drive • SP class linear guide way • High rigidity guide way



ESG-1224CNC / 1228CNC

X/Y/Z axes linear way
X/Y/Z direct drive transmission

Rectangle table base

Rectangle / Round type construction base

1. Oil cooler	9. Telescopic cover of elevation	17. Grinding wheel
2. Spindle motor guard	10. Splash guard sheet metal	18. Operation panel
3. Coolant system	11. Splash guard support	19. Spindle unit
4. Elevation top limit switch	12. Left limit switch of table	20. Column
5. Grinding wheel guard	13. Machine base	21. Electrical cabinet
6. Table	14. Lubricator	22. Cross feed servo motor
7. Speed reducer	15. Longitudinal feed servo motor	
8. Elevation servo motor	16. Right limit switch of table	

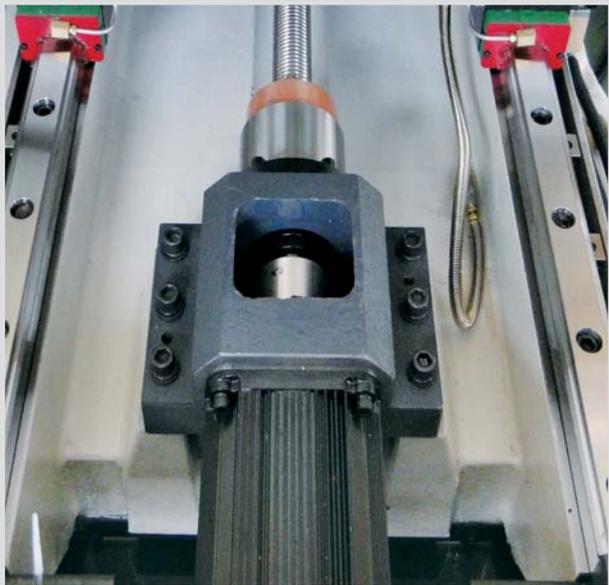
ESG - 1224 / 1228 CNC FEATURE



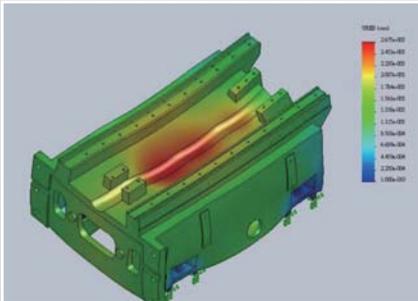
Y axis servo direct drive transmission mechanism, collocated with super precision SP class linear guide way.



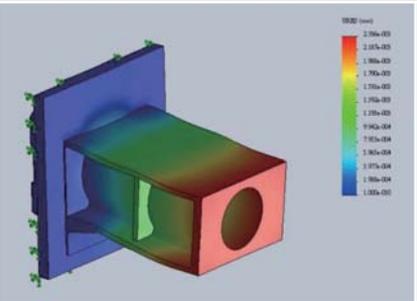
Tuck in, swing type control panel.



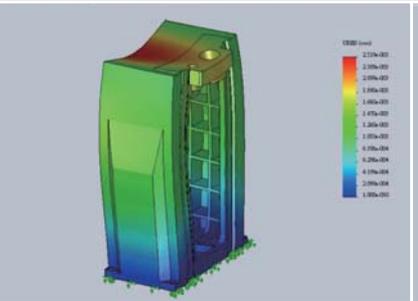
Equipped with reliable direct drive transmission mechanism, collocated with excellent clever movement and super precision SP class linear rail.



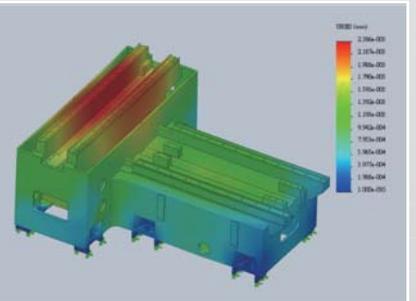
Base displacement analysis



Spindle seat displacement analysis



Column displacement analysis



Base struction

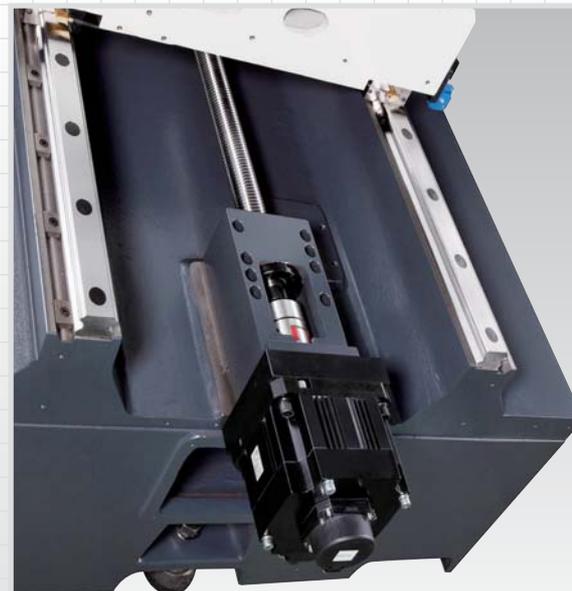
Base Mechanism

FEM analyzing for main casting and checked inside, rein-forcing rib and inner stress relief annealing to upgrade the reliability of machine precision.

Direct drive • SP class linear guide way • High rigidity guide way



Direct drive transmission mechanism for X,Y,Z axes, and collocated with super precision SP class Roller type linear rail.



Z axis direct drive transmission mechanism, collocated with super precision SP Roller type class linear rail.

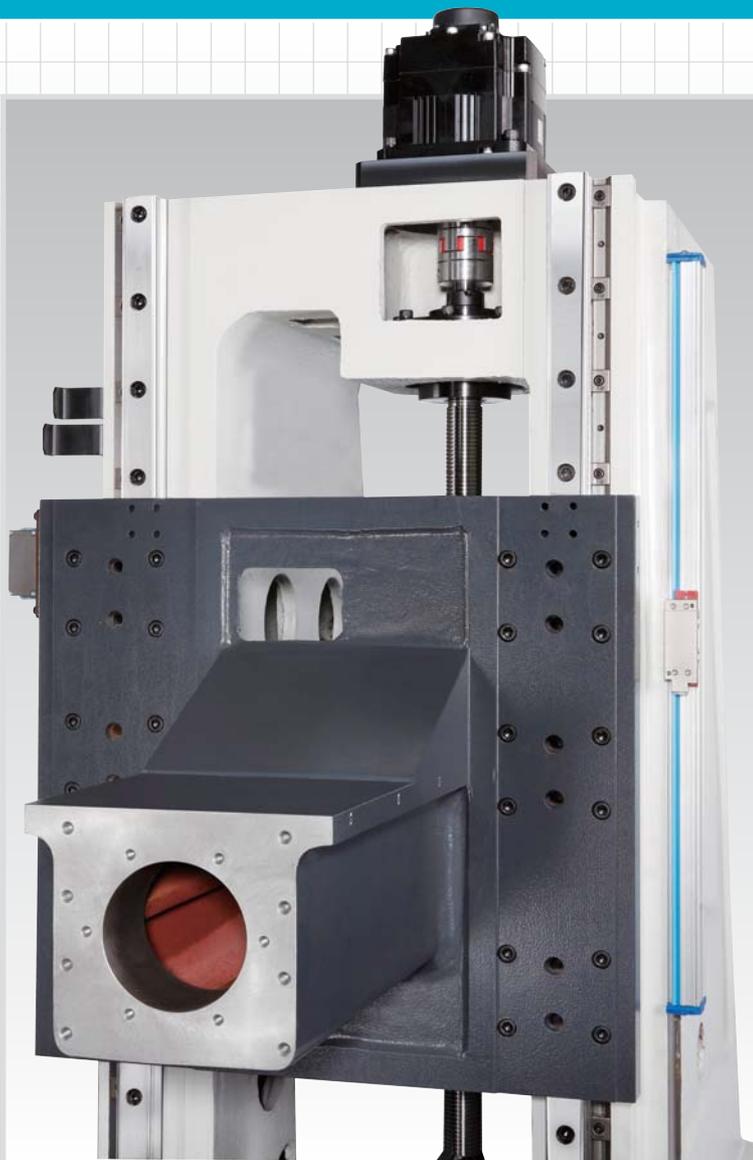


X axis direct drive transmission mechanism, collocated with super precision SP class Roller type linear rail. (Belt drive is available as option.)

Forming diamond wheel samples.



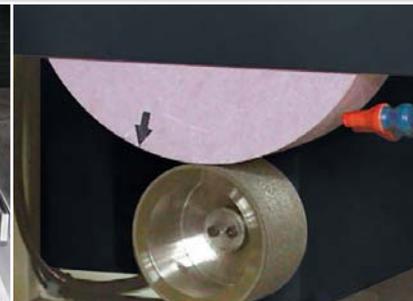
64 / 84 / 104 CNC FEATURE



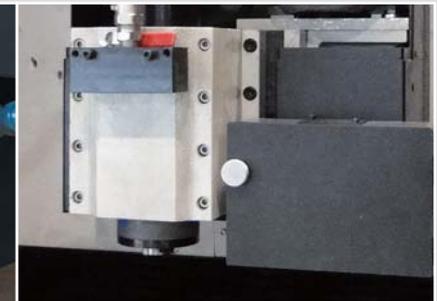
• *Controller: Fanuc / Mitsubishi / Siemens / Delta*



Vertical forming roller (option)



Roller diamond dresser (option)



Vertical type spindle grinding mechanism (option)

CNC Series Optional Accessories



▲ ELECTRO MAGNETIC CHUCK



▲ AUTO PAPER FEEDING DEVICE WITH MAGNETIC SEPARATOR



▲ CHUCK CONTROL WITH DEMAGNETIZER



▲ DYNAMIC BALANCER



▲ OIL COOLING SYSTEM



▲ PUNCH FORMER



▲ DIGITAL READOUT



▲ BALANCING STAND (DOUBLE LINE)



▲ FREQUENCY INVERTOR



▲ ROLLER TYPE BALANCING STAND



▲ SPARE WHEEL FLANGE

Other more optional accessories such as:

TRANSFORMER

STABILIZER

FULL COVER GUARD

FOURTH AXIS

To discover more custom-made and unique equipments for you.

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ESG - 1224 / 1228 CNC , ESG - 64 / 84 / 104 CNC SPECIFICATIONS

DESCRIPTION	ITEM	ESG-1224CNC	ESG-1228CNC	ESG-64CNC	ESG-84CNC	ESG-104CNC
General capacity	Max. Grinding Length	600 mm	700 mm	700 mm	900 mm	1100mm
	Max. Grinding Width	300 mm	300 mm	400 mm	400 mm	400 mm
	Table Working Surface	300 x 600 mm	300 x 700 mm	400 x 700 mm	400 x 900 mm	400 x 1100 mm
	Max. distance from table Surface to Spindle Centerline	650 mm	650 mm	720 mm	720 mm	720 mm
Longitudinal Movement	Max. Table Travel (Auto)	610 mm	710 mm	750 mm	950 mm	1050 mm
	Max. Table Travel (Manual)	630 mm	730 mm	800 mm	1000 mm	1200 mm
	Table speed infinitely variable	0 ~ 25 m/min	0 ~ 25 m/min	0 ~ 24 m/min	0 ~ 24 m/min	0 ~ 24 m/min
Cross Movement	Max. Cross Travel (Auto)	350 mm	350 mm	450 mm	450 mm	450 mm
	Max. Cross Travel (Manual)	360 mm	360 mm	460 mm	460 mm	460 mm
	Min. Input Increment	0.001mm	0.001mm	0.001mm	0.001mm	0.001 mm
	Handwheel per graduation (MPG)	0.001mm x1 / x10 / x100				
	Cross feed rapid speed Feed-rate (approx..)	2500 mm/min	2500 mm/min	4000 mm/min	4000 mm/min	4000 mm/min
Wheelhead Vertical Infeed	Vertical infeed rapid speed Feed-rate (approx..)	1000 mm/min	1000 mm/min	4000 mm/min	4000 mm/min	4000 mm/min
	Min. Input Increment	0.001 mm	0.001 mm	0.0001 mm	0.0001 mm	0.0001 mm
	Handwheel per graduation (MPG)	0.001mm x1 / x10 / x100				
	Auto infeed increment setting	0.001 ~ 0.05 mm				
Grinding Wheel	Spindle Speed	0 ~1800 R.P.M.				
	Grinding Wheel Size	355x50x127 mm	355 x 50 x 127 mm	405 x 50 x 127 mm	405 x 50 x 127 mm	405 x 50 x 127 mm
Drive Motors	Spindle Motor (HP)	10 HP				
	Longitudinal Movement Motor (KW)	1 KW	1 KW	1.5 KW	1.5 KW	1.5 KW
	Cross Feed Motor (KW)	1.5 KW	1.5 KW	2.0 KW	2 KW	2 KW
	Vertical Feed Motor (KW)	1 KW	1 KW	2.0 KW	2 KW	2 KW
Weight	Machine Net Weight	3600 Kgs	3700 Kgs	5200 Kgs	6000 Kgs	6800 Kgs
	Machine Gross Weight	4100 Kgs	4250 Kgs	5700 Kgs	6500 Kgs	7200 Kgs
Size	Machine Floor Space (LxWxH)	3100 x 3300 x 2900 mm	3100 x 3300 x 2900 mm	3200 x 3800 x 3100 mm	3400 x 3800 x 3100 mm	3600 x 3800 x 3100 mm
	Packing Dimension (LxWxH)	2910 x 2300 x 2540 mm	3010 x 2300 x 2540 mm	3100 x 2300 x 2540 mm	3210 x 2300 x 2540 mm	3410 x 2300 x 2540 mm
Power Rate (Approx.)	HP	16 HP	16HP	20HP	20 HP	20 HP

■ The manufacturer reserves the right to modify the design, specifications or mechanisms, to improve the performances, without prior notice. ■ All the specifications shown here are for reference only.

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