

Closed Bridge Type Engraving and Milling Machine

The Design Leader in Bridge-Type VMCs



High Speed, High 3D Contour
Accuracy, Competitively Priced

EM Series

Patent NO. : M270868



SPECIFICATION OF EM SERIES

MODEL		EM-111	EM-321	EM-322	EM-322D	EM-432
X-AXIS TRAVEL	mm	100	300	230(+120)ATC	X ₁ :230(+120), X ₂ :230(+120)ATC	400(+120)ATC
Y-AXIS TRAVEL	mm	100	200	200	200	350
Z-AXIS TRAVEL	mm	100	100	200	200	200
WORK AREA (X,Y)	mm	200x100	400x200	400x240	400x240+400x240	550x400
Max.workpiece size	mm	100x100x100	300x200x100	200x200x180	200x200x180	400x300x180
Distnce between working table & spindle	mm	100~200	110~310	110~310	110~310	110~310
No. of Tool (ATC)		0	0	4	4+4	6
Tool Holder Type		—	—	SK-20	SK-20	SK-20
Tool		ER-16	ER-16	ER-16	ER-16	ER-16
Max. Tool dia.		φ1~φ10	φ1~φ10	φ1~φ10	φ1~φ10	φ1~φ10
Spindle Speed	rpm	4000~30000	4000~30000	2000~30000	2000~30000	4000~30000
Spindle Motor	kw	2.2	2.2	3	3	3
Rapid Traverse	m	5	12	12	12	12
Resolution	mm	0.001	0.001	0.001	0.001	0.001
Positioning Accuracy	mm	0.005	0.005	0.005	0.005	0.005
Power Consumption	kw	8	8	8	8.5	8
Air Source	kg/cm ²	6	6	6	6	6
Machine Weight	KG	≈550	≈600	≈800	≈1200	≈1200
Floor Space	LxW (mm)	600x1000	1100x1230	1100x1230	1700x1230	1600x2000
Coolant Tank Capacity	Liter	≈25L	≈75L	≈75L	≈150L	≈170L
M/T of Cooler	LxWxH(mm)	350x470x910	350x470x910	350x470x910	350x470x910	350x470x910
Packing Dimension	LxWxH(mm)	1150x850x1860	1150x850x1860	1000x1330x1860	1520x1330x1860	1100x1600x1900

** Spindle Brand: Deuschle

** 3 Axes Servo Motor : Panasonic 400W

** Tool Holder Brand: Deuschle

** Ball Screw Brand: Hiwin

**5th axis : Parkson Par-130R



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The Best Body with Affordable Price



The Closed-Bridge type construction, combined with extra strong box type columns eliminate rigidity displacement while the spindle head is moving.

These unique features permit the cutting line to just match with the structural rigidity centerline at all times. As a result, you get guaranteed accuracy of parts or mould machining.

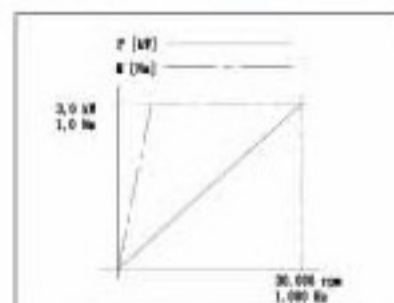
Auto Tool Change System



Spindle

Standard Accessories

- *Work Lamp
- *Tool Kit
- *Coolant Equipment
- *Spindle Air Blast
- *Automatic Tool Changer System
- *Spindle Central Lubrication System



Spindle Torque

- *Cutting Air Blast
- *Working Alarm Indicator
- *Air Cooler for Electrical Cabinet
- *Manual Pulse Generator(MPG)



Controller

Optional Accessories

- *Collect
- *4th Axis Rotary Table
- *5th Axis Rotary Table
- *AVR
- *X,Y,Z 3-axis Linear Scale

Increase the commercial value of products with support functions, such as jewelry, stamps, name plates, carving, jewelry development.

Use in education, research, practical training experience in NC code and other processing.



Our CNC engraving machines are suitable for machining of precision products, copper electrodes, precision die moulds, bronzing moulds, plastic dripping moulds, hot cutting moulds, mould lettering and minitype injection moulds.

Especially for machining those products with requirements of high smooth finish, such as for optics equipment surface and electrical semiconductor, Mobil phone..etc.

The machine is rather salable machine due to its high machining precision, low usage cost, high machining efficiency for high precision products, legerity structure, convenient operation, good performance.



Laser Calibration

Laser measurement of X and Y axis using high quality super precision linear guide ways and ball screws.

Eighter 28mm or 40mm diameter used. Assure precise positioning, accuracy and long endurance life.



Ball Bar Calibration

Renishaw ball bar testing used to test and record each machine's X and Y axis simultancous movements. This guarantees ideal and accurate table movement and ball screw backlash.



SURE FIRST