

OPTIMIZED STRUCTURE DESIGN

Enhances Machining Accuracy and Efficiency

In order to enable each machining center to reach the highest machining accuracy and productivity, the machine structure design is focused on reducing vibration to a minimum when performing heavy cutting or high speed machining. This allows greater cutting depth and a higher feed rate. As a result, a shortened machining time can be achieved.

Features of Machine Structure

- The structural parts are manufactured from high quality Meehanite cast iron, stress relieved for lifetime accuracy.
- The box type column is designed with extra wide bottom in combination with internal ribbing to damp vibration and reduce deformation.
- The massive base provides a firm support for the entire machine and heavy loads.



EV-860 / EV-1050

- X / Y / Z axis linear guideway
- Arm type tool magazine:
24 tools (standard) / 30 tools (optional)
- X / Y / Z travel: 860 x 600 x 610 mm (EV-860)
- X / Y / Z travel: 1,050 x 600 x 610 mm (EV-1050)



EV-800 APC

- X / Y / Z axis linear guideway
- With automatic pallet changer
- Arm type tool magazine:
24 tools (standard) / 30 tools (optional)
- X / Y / Z travel: 860 x 500 x 500 mm

	ITEM	EV-1050
Table	Dimensions	1200 × 600
	Working area	1050 × 600
	T-slot	CD100 × 18 × 5
Travel Range	Max. loading capacity	600 kg
	Max. travel range of X/Y/Z-axis	1050 / 600 / 610
	Distance from spindle nose to table surface	120-730
Spindle	Distance from spindle center to column	700
	Spindle taper	ISO No.40
	Spindle nose outer diameter	Ø 70
Feedrate	Spindle speed	STD: 8,000 rpm; OPT: 10,000; Direct-drive: 10000, 12000 rpm
	Feedrate of X/Y/Z-axis	1 -10000 mm /min
	Slideways of X/Y/Z-axis	Linear guideway
Tool Magazine	Rapid traverse of X/Y/Z-axis	Fanuc: 36 / 36 / 30 m/min
	Tool capacity	STD: 24 pcs; OPT: 30 pcs
	Tool selection	Bi-direction & the shortest selection
	Max. tool diameter w/ adjacent X max. length	Ø 80 × 300
	Max. tool diameter w/o adjacent X max. length	Ø 150 × 300
	Max. tool weight	8 kg
Drive Motor	Tool shank	BT40 or V40CT or SK40
	Spindle drive motor	Fanuc: β il8/10000 7.5/11 kW OPT: Mistubishi SJ-D11/80-01-C/10000
	Servo motors of X/Y/Z-axis	Fanuc: X/Y β is12/3000 (1.8kW), Z β is22/2000 (2.5kW) Mitsubishi X/Y HF204S-A48 (2kW), Z HF303BS-A48(3kW)
	Coolant motor	960 W + 1080 W
	Chip conveyor motor	215 W
Accuracy	Positioning	± 0.005
	Repeatability	± 0.003
Miscellaneous	Power requirement	208-220V / 55 Amps / 3 Phase
	Floor area (W × D × H)	3372 × 2426 × 2721
	Packing dimension (W × D × H)	3710 x 2300 x 2510
	Net weight (approx.)	6180 kgs
	Gross weight (approx.)	6470 kgs