

The same deburring level as skilled worker by automation

Compact Deburring Robot Cell



YouTube Movie



Model:FDM-001

[Features]

- All-in-one deburring system. It achieves high quality, less cycle time and cost reduction.
- 6-axis compact robot enables tool to approach the narrow spaces freely.
- Robot cell with air float attachment is feasible to deburr various workpiece shapes.
- Quick-change motor spindle with our original one-touch tool change is equipped as standard option.
- With ATC magazine, two types of cutting tools can be exchanged automatically (*optional).
- Oil pod for applying cutting oil automatically, brush unit for removal welding materials on cutting tool and cleaning cutting edge are also available (*optional).
- Compact control panel is retractable to pull out only when operation is necessary and it is stored inside the side cover during automatic operation.
- Turntable mechanism can be used for high-cycle automatic machining lines.
- Standard feature includes the checking switch for breakage of cutting tools, light curtains, LED lighting inside of machine, ready switch and 3 colors signal tower.
- Cycle time can be further shortened by adding robot additional axis control on the fixture table (*optional).
- Compact design, outside dimensions W1000 x D1800 x H1542mm.

[Maintainability]

- The lubricating greases for turntable drive unit is maintenance-free (No periodic replacement is required).
- Cutting chips are stored into the chip cart at bottom of machine rack. This cart with casters is easy to dispose the cutting chips.

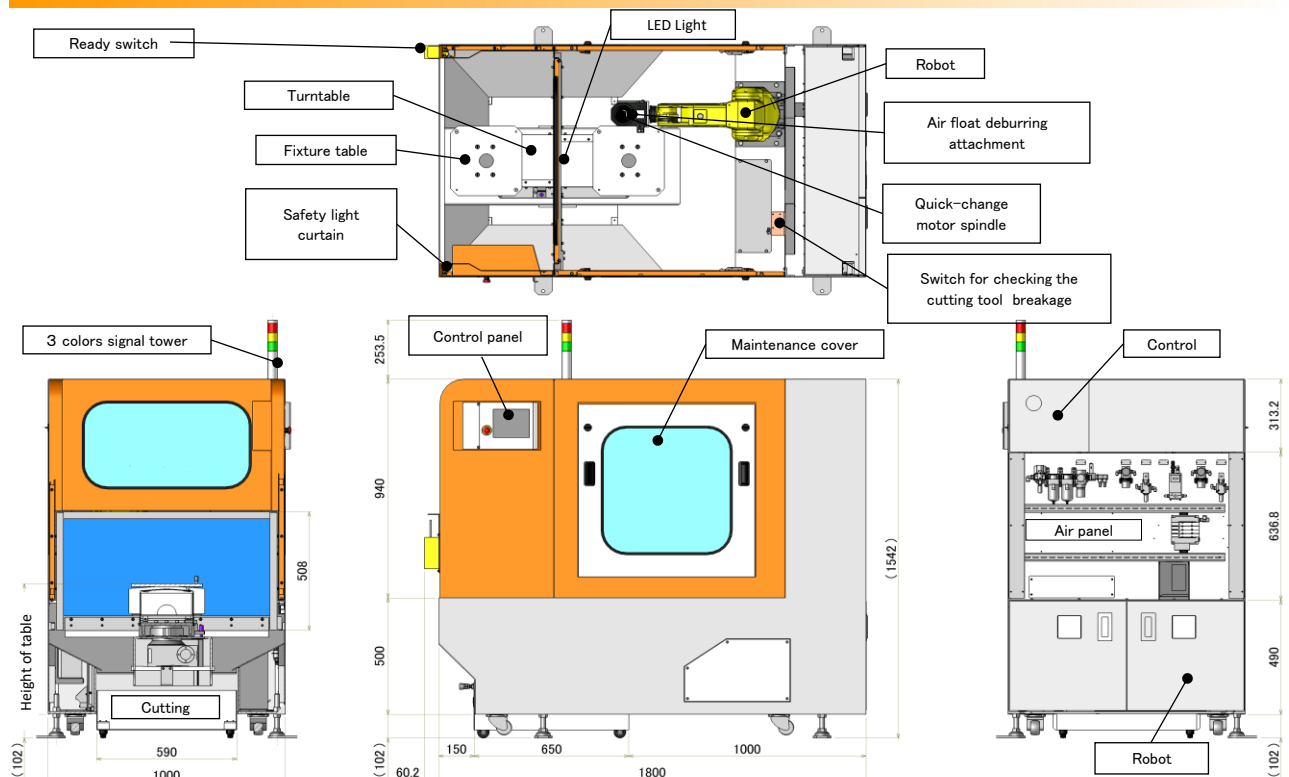
[Safety]

- Safety light curtains are equipped at workpiece supply position to prevent from any accidents during operation and rotation.
- Safety door open/close switches at maintenance covers (left and right side) are equipped to prevent from any accidents during operation.

[Equipment Specification]

Equipment	Name	Compact Deburring Robot Cell
	Type	FDM-001
	Outside Dimensions	W1000 x D1800 x H1542mm
	Weight	700kg (including RB weight)
Utility	Installation Style	Floor stand
	Power	AC200V 3P 30A (60/50Hz)
Robot	Air	0.4MPa (Dry air)
	Unit	FANUC LR Mate 200iD (Load capacity 7kg)
Turntable	Control Panel	R-30iB Mate Plus
	Driving method	Servo motor (1.5kW 2000min ⁻¹)
	Index	Roller cam-driven type
	Speed	0.25rev/sec (2sec/180°)
	Positioning Accuracy	40arc·sec (Center of fixture table: 0.06mm)
Fixture Table	Repeatability	±5arc·sec (±0.007mm)
	Table Dimensions	300x300mm (With fixture positioning pins)
	Driving method	Servo motor (750W 4000min ⁻¹)
(Options)	Index	Roller cam-driven type
	Deburring Attachment	Air float deburring attachment AF40
Deburring System	Motor Spindle	Quick-change Motor Spindle SP40L-QM
	Oil Pod	Oil can with level line (0.22ℓ)
Other Options	Cutting edge cleaning brush unit	Brushless motor (400W 1200min ⁻¹)
	ATC Magazine	Duplex type (with tool presence and tool mounting confirmation sensors)

[Equipment Dimensions]



Subject to change of rated figures, specifications, outside dimensions, etc., without prior notice.

[Inquiry]

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