

Robot combined
5 axes precision machining center

E-32V

Renewed with maximum spindle
speed $20,000 \text{ min}^{-1}$



- **2 Maximum spindle speed $20,000 \text{ min}^{-1}$ with dual contact**
 Dual contact of high reliability has much improved the spindle runout and increased its rigidity. Spindle speed is max. $20,000 \text{ min}^{-1}$ (option).
- **ATC 30 tools**
 As standard, the number of tools to be stocked in the magazine has been increased to 30. With special tools additionally stockable, the time for operation change can be reduced.
- **Automatic work supply and collection system**
 With the robot and the stocker (exhibited at JIMTOF), automatic operation for hours can be done. Eguro will propose the best automation system on each workpiece.

Machine standard specifications

Item		Description	
Axes travel	Spindle left-right (X axis)	mm	300
	Spindle front-rear (Y axis)		200+ 130(ATC)
	Spindle vertical (Z axis)		220
	Table trunnion (A axis)	deg	0~95°
	Table index (C axis)		360°
Table	Working area	mm	250 x 250
	Table surface		T slot of 14mm wide, 8 directions
	Weight on the table	kg	50
Spindle	Nose		7/24 Taper No.30
	Speed	min ⁻¹	500~20,000 (Standard 12,000)
ATC	Tool shank		MAS BT30 (dual contact)
	Tool stock	pcs.	30
Feed	Rapid traverse(X, Y, Z)	m/min	15
	Rapid traverse(A, C)	deg/min	6,000
	Least input incremental (X, Y, Z)	mm	0.001
	Least input incremental (A, C)	deg	0.001
Motors	Spindle	kw	1.5/3.7
	Axes X, Y, Z		1.6 (with brake)
	Axes A		1.6
	Axes C		1.4
	Tool magazine		0.75
Power Electricity	KVA		19
Machine height	mm		2,585
Floor space	mm		1,575 x 2,265 (Machine only)
			2,585 x 3,030 (Incl. robot and stocker)
Machine weight	kg		2,800 (Machine only)

Machine options

Tool stock 40/60 tools, Air blower, Tool tip coolant oil temperature control device
 Addition of nozzles of coolant, Multi counter, Automatic power shut off
 Weekly timer, Signal tower (3 colors), Automatic tool length measurement
 Inspection of tool tip top damage, Work light, Door interlock

Control unit

Item	Description
NC control unit	FANUC/S 31i-5A
Display	10.4 inch L.C.D. (color)
Axes controlled	5 axes (X, Y, Z, A, C) Simultaneous 5 axes
Least input incremental	X, Y, Z axis : 0.001 (mm) . A, C axis : 0.001 deg.
Command	Absolute, incremental (G90, G91)
Auxiliary function	M 2 digits
Spindle function	S 5 digits
Tool function	T 2 digits
Tool offset	64 pairs
Part program storage length	64 KB (equiv. 160m)
Rapid traverse override	1, 25, 50, 100 %
Feed rate override	0~200 % (at every 10 %)
Interface	RS232C and memory card
Others	Background editing, Cutter compensation C, Workpiece coordinate system 48 pairs compensation, Program restart, Handle interruption Tool length measurement, rigid tap, custom macro Canned cycle (G73, G76, G80~G89) Stored pitch error

Standard accessories

Spindle coolant oil temperature control device, Tool tip coolant device,
 Chip conveyor, Lubricator, Cycle end indication lamp, Spindle load meter
 Hydraulic power unit, Chip bucket, Tool box and tool kit

CNC options

Least input incremental 0.1 μm, Single direction positioning, Polar coordinate interpolation
 Cylindrical interpolation, Involute interpolation, Helical interpolation
 NURBS interpolation, High speed skip function, Tape memory expansion
 Extended part program editing, Extended tool life management, Look ahead control
 AI contour control, Desired angle chamfering and corner R, Tool offset
 5 axes machining function (3 dimensional tool compensation cutter compensation for 5 axes)
 Multi faces machining function (3 dimensional coordinate conversion, Angular face machining)
 Data server

Dimensions

