Mazak_{vc-ez 16x}

VERTICAL 5-AXIS MACHINING CENTER



MAZATROL SmoothEz5 CNC



- 15" capacitive touch-screen display with full keyboard.
- EIA/G-code and MAZATROL programming

languages standard.

- Dual Core 800MHz NC with 512MB of DDR3-SDRAM.
- SMOOTH Machining Configuration (SMC) capabilities.
- Newly designed LAUNCHER screen.
- Enhanced MAZATROL features plus the addition of QUICK MAZATROL.

Designed and built in Kentucky, the VC-Ez16x gives shops affordable access to Mazak reliability, accuracy and five axis performance. The VC-Ez 16x can also be configured with a range of coolant, spindle, tool changer, and chip management options that expand their functionality to provide full access to DONE IN ONE® capabilities for single-setup machining.

FEATURES

- Standard 12000 RPM integral grease packed spindle (15K air-oil spindle OPT)
- Hybrid MX Roller Guide System improves rigidity, accuracy and reliability.
- Standard 30 tool magazine (50 tool magazine optional)
- 400Ø MM standard table
- NEW SmoothEZ5 5-axis controller
- Large compliment of coolant options including thru-spindle and a coolant gun.

VC-Ez 16x specifications

		Spindle	e speed	rpm	40 to 12000 (Electric two steps)
Spindle Feed control	Standard #40 12000 rpm	Spindle speed Main motor		трш	40 to 12000 (Elocato two steps)
		(AC inverter motor)	5 min. rating	kW (HP)	18.5 (24.8)
			30 min. rating	kW (HP)	11 (14.7)
			40% ED Cont. rating	kW (HP)	7.5 (10)
		Spindle	e speed	KVV (III)	40 to 15,000 (Electric two steps)
	Optional #40	Main motor	<u>'</u>		(2.000,000)
	15000 rpm	(AC inverter motor)	10% ED	kW (HP)	22 (29.5)
			30 min rating	kW (HP)	11 (14.7)
			Cont. rating X/Y/Z axis	kW (HP) mm/min	7.5 (10) 32000 (1260)
	Rapid traverse		B/C axis	deg/min	10800
	Cutting feed rate		X/Y/Z axis	mm/min	1 to 8000 (.04 to 315)
	Outling leed rate		C axis	deg/min	2880
	Number of axes controlled simultaneously				5 axes (5 axes of X/Y/Z/B/C)
	Indexing time		B axis		0.6 s/90deg
	(clamp / unclamp time not included)		C axis		0.55 s/90deg , 1.05 s/180deg
	Table size			mm (in)	Ø400 (Ø15.75")
Table				. ,	` /
	Table Surface (tap holes)		Hole diameter	mm (in)	5/8-11 UNC
			Pitch x No. of holes Max load on pallet	kg (lbs)	80mm (3.15") ×16 230 (507.06)
	Table surface height		a.r.iouu on pullet		<u> </u>
	(from the surface of machine base)			mm (in)	725 (28.54)
ATC and tool storage	Magazine Capacity				30 tools standard (50 tools opt)
	Tool Selection method				Random selection by magazine pocket
					number Automatic shorter path selection CAT BT-No.40
	T1 ChI-				CAT BBT-No.40 (OP)
	Tool Shank				MAS BT-No.40 (OP)
					MAS BBT-No.40 (OP)
	Re	tention Knob type			YAMAZAKI ANSI type
	Maximum tool diameter	When adjacent tool exists When no adjacent tool exists		mm (in)	Ø75 (2.95) 30tool - Ø150 (5.91) / 50tool - Ø127 (5)
	Maximum tool length	vviienno adjav	CON CAISIS	<i>(</i> : \	, , , , , , , , , , , , , , , , , , , ,
	(from the taper reference edge)			mm (in)	305 (12)
	Maximum Tool Mass (tool shank and retention knob included)			kg (lbs)	8 (17.64)
					{ A tool of 5 kg (11.02lbs) or more requires the
					heavy tool designation.}
	Maxwerksiaaa siza Dia., Length x Width			mm (in)	Ø460 (Ø18.11")
	Max workpiece size	Height		mm (in)	485 (19.09")
	Maximum load on pallet			kg (lbs)	230 (507.06)
	(uniformly distributed)			- · · · ·	` ′
	X axis travel			mm (in)	705 (27.76")
Dimensions	Y axis travel Z axis travel			mm (in) mm (in)	410 (16.14") 410 (16.14")
and	B axis travel (Table tilting) [Indexing units of 0.0001deg]			DEG	-110°~+40° (axis control)
	C axis travel (Table rotation) [Indexing units of 0.0001deg]			DEG	±360° (axis control)
Capacity	Distance from the spindle nose to top of the pallet			mm (in)	115 to 525 (4.53" to 20.67")
	(positioned at B=0deg)			()	
	Distance from the spindl	pallet	mm (in)	160 to 570 (6.30" to 22.44")	
	(positioned at B= +/- 90 deg)			(111)	<u> </u>
Machine	Machine Dimensions Including coolant tank (standard spec)		Height from floor	mm (in)	2864.2 (112.76)
size			Width Length	mm (in)	3071.5 (120.93) 3341.4 (131.55)
	Mass of machne without coolant tank			lem /II \	30 tool ATC - 8700 (19200)
	(standard spec)			kg (lbs)	50 tool ATC - 9000 (19840)
Power	Voltage (3-phase)			V	AC 200/220/230 +/- 10%
Supply	Frequency Power capacity (standard spec) 30 min rating			Hz N/A	60 +/- 1%
Оцрргу	(12000 rpm spindle)	u spec)	30 min rating continuous rating	kVA kVA	30 tool ATC 22.44 / 50 tool ATC 22.94 31 tool ATC 17.37 / 50 tool ATC 17.87
	Power capacity (optional	I spec)	30 min rating	kVA	32 tool ATC 22.71 / 50 tool ATC 23.21
	(15000 rpm spindle)		continuous rating	kVA	33 tool ATC 17.60 / 50 tool ATC 18.10
Air Source	Pressure			Mpa (psi)	0.5 (73) or more
				,	1.0 (143) or less
	Capacity			L/min (ANR)	320 (11.3)