MAZAK Integrex e -500H II x 3000U (2010)

3-2-1 e-500H II

Item			Unit	e-500H II	
				1500U	3000U
Capacity	Maximum swing		mm	ϕ820	
	Swing over cross slide		mm	ϕ820	
	Max. machining diameter		mm	ϕ820	
	Maximum support mass [including chuck]		kg	Chuck work ...710 Shaft work .....1500 [Note 1]	
Turning spindle	Rotating speed		min^{-1}	35 - 3300	
	Turning spindle through hole diameter		mm	ϕ104	
	Turning spindle nose		—	JIS A2-11"	
	Turning spindle bearing inner diameter		mm	ϕ150	
	Turning spindle motor [30-min./cont. rating]		kW	30/22 [Note 2]	
	Maximum torque		N·m	3379 [Note 2]	
	C-axis clamp torque		N·m	2700	
	Smallest input capacity for C-axis movement (rotation)		deg	0.0001	
	Max. speed of C-axis rotation		min^{-1}	20	
	Rated load torque of C-axis [for 180%]		N·m	1400	
Tailstock	Sleeve hole type		MT	No. 5	
	Maximim thrust power		kN	15.0	
	Movement stroke		mm	1466 [1157.8] [Note 3]	2990 [2681.8] [Note 3]
	Rapid traverse		mm/min	4500	
Milling spindle	Milling head type		—	Single spindle with ATC unit	
	Tool shank type		—	BT 50	
	Tool size	Outside turning	mm	□25	
		Inside turning		ϕ50	
		Max. size		ϕ260 × 500 L	
	Milling-spindle motor output [30-min. rating]		kW	37	
	Maximum rotary tool torque [1-min. rating]		N·m	312	
	Milling spindle speed		min^{-1}	25 - 10000	
	B-axis clamp force		kN	138.5	
	Angular positions of clamping the B-axis coupling (indexing the milling head)		deg	At intervals of 5 degrees (49 positions) (–30, –25,····· 0, 5,····· 205, 210)	
	Smallest input capacity for B-axis indexing		deg	0.0001	
	B-axis operation range		deg	–30 to 210	
	B-axis 90° indexing table		s	0.7	
	Rated contouring torque of B-axis [for 180%, 30%ED]		N·m	2795	
	Continuously rated contouring torque of B-axis		N·m	1322	

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Feed axis	Rapid traverse	X-axis		mm/min	40000	
		Y-axis			40000	
		Z-axis			40000	
		V-axis [optional]			—	8000
	Thrust	X-axis (downward)	Cont.	N	36314	
			150%		48690	
		Y-axis	Cont.		14775	
			150%		23134	
		Z-axis	Cont.		26949	
			150%		42502	
		V-axis [optional]	Cont.		4236	
			150%		9326	
	Movement stroke	X-axis		mm	870	
		Y-axis			500	
		Z-axis			1598	3122
		V-axis [optional]			939	2463
Others	Coolant tank capacity			L	620	800
	Power requirement (continuous rating)			kVA	92	
	Air pressure			MPa	0.5	
	Air requirement	Normal		L/min (ANR)	210	
		Maximum			530	[Note 4]
Total	Machine dimensions (40-tool magazine)	Height of centers		mm	1300	
		Length [Note 5]		mm	6540	8040
		Width [Note 6]		mm	4600	
		Height		mm	3220	
	Machine mass			kg	22600	28600

Item		Unit	e-500H II	
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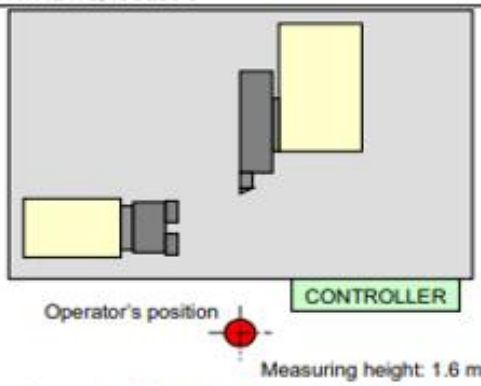
Noise	Noise level (L_{WA})	dBA	75.5	
	Uncertainty level (K)		4	
	Measuring conditions		1. Spindle speed: 2400 min^{-1} (During workpiece gripping by chuck) 2. Feed axis to be driven. 3. Turret to be indexed. 4. Chip conveyor to be ON. 5. Tailstock not to be used.	
	Measuring method		EN-12415/12417/12478, ISO230-5	
	Measuring position		 Note: The main sources of the noise air-conducted from the machine will include the following: - Spindle drive - Feed axis drive - Turret index unit - Chip conveyor	
	Note: The figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the work-force include the characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes, and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.			

Note 1: The center of gravity of the chucked workpiece must be within a distance of 320 mm from the spindle nose.
The rigidity and holding force of the workpiece support are not allowed for.
The maximum admissible mass is a theoretical value of static load; note that the bearing life further depends upon rotational balance and cutting conditions.

Note 2: The main component force of cutting must not exceed 11768 N.

Note 3: Values in square brackets refer to machines with an optional NC work rest.

Note 4: The maximum requirement denotes an average for the machine operation with an ATC frequency of twice per minute.

Note 5: Chip conveyor not included.

Note 6: *e*-Tower, NC operating panel and oil controller included.

Note 7: The figures indicated on the machine plates shall be applied if different from the manual.