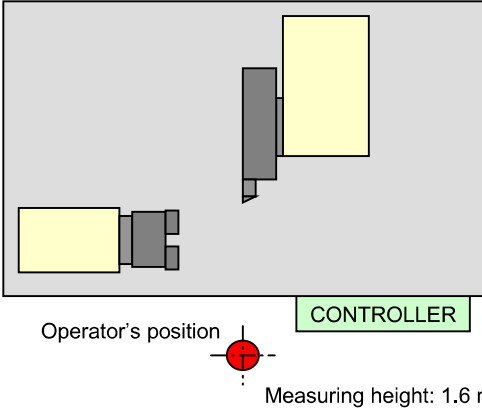


Note 6: Machine size with GL differs depending on specifications. For details contact the nearest Mazak Technical Center or Technology Center.

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

6. INTEGREX 400-IV or INTEGREX 400-IVS, 1500 mm between centers

Item		Unit	INTEGREX 400-IV	INTEGREX 400-IVS	
Capacity	Chuck size	in	12	1st spindle: 12 2nd spindle: 10	
	Maximum swing	mm	φ760		
	Swing over cross slide		φ760		
	Swing during Y-axis process		φ760 to 660		
	Maximum machining diameter		φ760		
	Bar work capability (Note 1)		φ102	1st spindle: φ102 2nd spindle: φ77	
	Maximum machining length		1524		
	Maximum support mass (Note 2)	kg	Chuck workpiece: 650 Shaft workpiece: 1000	1st spindle Chuck workpiece: 650 2nd spindle Chuck workpiece: 400	
1st spindle	Rotational frequency (Note 3)	min ⁻¹	35 to 3300		
	Acceleration and deceleration time (Note 4)	s	2.8 (0 → 2550 min ⁻¹)		
	Through-hole diameter	mm	φ112		
	Motor output (30-min rating)	kW	30		
	Maximum torque (25% ED)	N·m	1400		
2nd spindle	Rotational frequency	min ⁻¹	—	35 to 4000	
	Acceleration and deceleration time (Note 5)	s	—	2.7 (0 → 3400 min ⁻¹)	
	Through-hole diameter	mm	—	φ88	
	Motor output (30-min rating)	kW	—	26	
	Maximum torque	N·m	—	500	
Tailstock	Tail spindle hole type	MT	No. 5	—	
	Travel amount	mm	1545	—	
	Maximum thrust power	N	10000	—	
Milling headstock	Type	—	Single spindle with ATC unit		
	Tool shank type (milling/turning)	—	KM 63/CAPTO C6/BT 40		
	Tool size	O. D. turning	mm	□25	
		I. D. turning		φ40	
		Max. milling tool		φ125 × 400 long	
	90° indexing time	s	0.5		
	Motor output (20% ED)	kW	18.5		
	Maximum torque (20% ED)	N·m	119		
	Milling spindle speed	min ⁻¹	15 to 12000		
	Acceleration and deceleration time	s	1.48 (0 → 12000 min ⁻¹)		
Orientation time (12000 → 0)	s	1.84			
Feed axes	Rapid traverse	X/Z	38000/38000 26000 6000 30000		
		Y			
		W			
	Travel amount	X	630 1585 230 1546 1530		
		Z			
		Y			
		W			

Item		Unit	INTEGREX 400-IV	INTEGREX 400-IVS
Others	Coolant tank capacity	L	444	
	Power requirement (continuous)	kVA	51.45	89.33
	Air pressure	MPa	0.5	
	Total air capacity	L/min (ANR)	700 or more	
General (with magazine but without oil pan)	Machine size (Note 6)	Height of centers	mm	Refer to 9. "Machine size list".
		Length		
		Width		
		Height		
	Floor space required	m ²		
	Mass	kg		
Noise	Noise level (L _{WA})	dBA	79.5	
	Unconfirmed level (K)		4	
	Measuring conditions	Spindle speed: 2640 min ⁻¹ (During workpiece gripping by chuck) Feed axis to be driven. Turret to be indexed. Chip conveyor to be ON. Tailstock not to be used.		
	Measuring method	EN-12415/12417/12478, ISO230-5		
	Measuring position	<div style="text-align: center;">  </div> <p>(Note) The main sources of the noise air-conducted from the machine will include the following:</p> <ul style="list-style-type: none"> <li style="display: inline-block; width: 45%;">- Spindle drive <li style="display: inline-block; width: 45%;">- Feed axis drive <li style="display: inline-block; width: 45%;">- Turret index unit <li style="display: inline-block; width: 45%;">- Chip conveyor 		
	<p>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.</p>			

Note 1: Bar work capability on the 1st spindle differs depending on chucks.

B212A815X: $\phi 102$ mm

B210A815X: $\phi 77$ mm

Note 2: The values include chuck mass.

Note 3: Rotational frequency is limited by the types of chuck.

12" solid chuck: Max. 3380 min⁻¹

12" hollow chuck: Max. 3000 min⁻¹

Note 4: For a combination of B212A815X + f2511HS-15Y

(Time to reach 85 % of rotational frequency from 0 to 3000 min⁻¹)