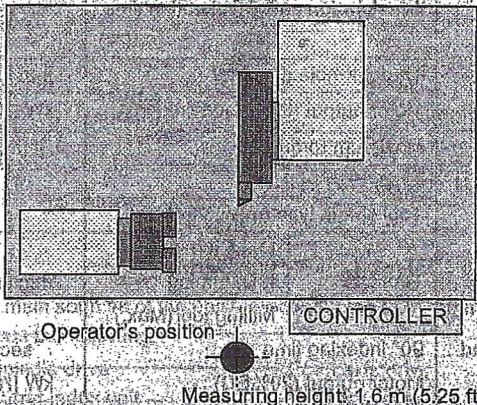


2. INTEGREX 100-IIIS/IIIST

Item		Unit	INTEGREX 100-IIIS	INTEGREX 100-IIIST	
Capacity	Chuck size	In.	Main spindle: 6, 2nd spindle: 6		
	Maximum swing	mm [in.]	φ545 [φ21.46]		
	Swing over cross slide		φ352 [φ13.86]		
	Swing during Y-axis process		φ412 to φ545 [φ16.22 to φ21.46]		
	Maximum machining diameter		φ545 [φ21.46]		
	Bar work capability (*1)		φ51 [φ2]		
	Maximum machining length		735 [29.65]		
Maximum support weight (*2)	kgf [lbs]	Main spindle..... 150 [330] Secondary spindle 150 [330]			
Main spindle	Rotating speed	min ⁻¹ (rpm)	35 to 6000		
	Acceleration and deceleration time (*3)	sec	3.4 (0 → 5100 min ⁻¹)		
	Through-hole diameter	mm [in.]	φ61 [φ2.40]		
	Motor output (Half-hourly rating)	kW [HP]	11 [15]		
	Maximum torque	kgf·m [ft·lbs]	16.4 [118]		
Secondary spindle	Rotating speed	min ⁻¹ (rpm)	35 to 6000		
	Acceleration and deceleration time (*4)	sec	3.3 (0 → 5100 min ⁻¹)		
	Through-hole diameter	mm [in.]	φ61 [φ2.40]		
	Motor output (Half-hourly rating)	kW [HP]	11 [15]		
	Maximum torque	kgf [ft·lbs]	16.4 [118]		
Milling head	Type		Single spindle with ATC unit		
	Tool shank type (milling/turning)		KM63/CAPTO C6/BT40		
	Tool size	O. D. turning	mm [in.]	□20 [□3/4]	
		I. D. turning		φ32 [φ1-1/4]	
		Milling tool (Max.)		φ90 × 200 L [φ3.54 × 7.87 L]	
	90° indexing time	sec	0.5		
	Motor output (20%ED)	kW [HP]	5.5 [7.5]		
	Maximum torque (20%ED)	kgf·m [ft·lbs]	5 [36]		
	Milling spindle speed	min ⁻¹ (rpm)	15 to 12000		
	Acceleration and deceleration time	sec	2.9 (0 → 12000 min ⁻¹)		
Orientation time (12000 → 0 min ⁻¹)	sec	3.2			
Lower turret	Type		—	Nine-faced drum turret (Bolt fixing scheme)	
	Number of tools mounted	pcs	—	9	
	Outside/Face turning tool	mm [in.]	—	□20 × 100 [□3/4 × 4]	
	Boring bar	mm [in.]	—	φ25 [φ1]	
Feed axes	Rapid feed rate	X/Z	m/min [IPM]	30/33 [1181/1299]	
		Y		26 [1023]	
		X2/Z2		—	
		W		30/33 [1181/1299]	
		—		—	
	Movement stroke	X	mm [in.]	30 [1181]	
		Z		410 [16.14]	
		Y		805 [31.69]	
		X2		140 [5.51]	
		Z2		—	
W	—	220 [8.66]			
			—	780 [30.71]	
			795 [31.30]		

Item		Unit	INTEGREX 100-IIIS	INTEGREX 100-IIIST
Others	Coolant tank capacity	L [gal (US)]	205 [54.1]	295 [77.9]
	Power requirement (continuous)	kVA	39.2	41.2
	Air pressure	MPa [PSI]	0.5 [74]	
	Total air capacity	L/min (ANR) [ft ³ /min]	500 [17.5] or more	
Machine dimensions & weight (excl. oil pan)	Machine dimensions	Height of centers	1100 [43.31]	
		Length	3020 [118.90]	3075 [121.06]
		Width	2130 [83.86]	2650 [83.86]
		Height	2443 [96.18]	
	Floor space required	m ² [ft ²]	6.43 [69.21]	8.15 [87.73]
	Weight (including oil pan)	kg [lbs]	7000 [15400]	7500 [16500]
Noise	Noise level (LWA)	dB	71	
	Unconfirmed level (K)		4	
	Measuring conditions	1. Spindle speed: 4800 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. Tallstock not to be used.		
	Measuring method	EN-12415/12417/12478; ISO230-5		
	Measuring position	 <p>Operator's position</p> <p>Measuring height: 1.6 m (5.25 ft)</p>		
		<p>(Note) The main sources of the noise air-conducted from the machine will include the following:</p> <ul style="list-style-type: none"> - Spindle drive - Feed axis drive - Turret index unit - Chip conveyor 		
	Remarks:	<p>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>		

- (*1) Bar work capability depends upon the chuck used.
- B206 + S1246: $\phi 42$ mm ($\phi 1.65$ in.) - BB06 + SS1452C: $\phi 51$ mm ($\phi 2.01$ in.)
- (*2) The values include chuck weight.
- (*3) For a combination of B206 + S1246:
Time required for an acceleration from 0 to 85% of the maximum speed (6000 min⁻¹)
- (*4) For a combination of B206 + Y1020RE:
Time required for an acceleration from 0 to 85% of the maximum speed (6000 min⁻¹)

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