

3-3 General Specifications

3-3-1 QTN200-IIM, QTN200-IIMS

Item			Unit	Machine models and specifications		
				QTN200-IIM		QTN200-IIMS
				500U	1000U	
Capacity	Chuck size		in	8		
	Maximum swing		mm	φ675		
	Standard machining diameter			φ276		
	Maximum machining diameter			φ380		
	Bar work capacity (Note 1)			φ65		
	Distance between spindle end and turret end face			135 - 710	135 - 1220	—
	Distance between the chuck jaws of both spindles			—		−5 - 580
	Max. support weight (Chuck included) (Note 2)		kg	Chuck work: 300 Shaft work: 700		1st spindle: 300 2nd spindle: 150
1st spindle	Speed range (Note 3)		min ^{−1}	35 - 5000		
	Spindle nose shape		—	JIS A2-6"		
	Acceleration time (Note 4)	JPN, Asia	s	3.1		
		USA, EU		2.2		
	Through-hole diameter		mm	φ76		
	Motor output (30-min. rating)	JPN, Asia	kW	18.5		
		USA, EU		26		
	Maximum torque	JPN, Asia	N·m	358		
USA, EU		465				
2nd spindle	Chuck size		in	—		6
	Speed range		min ^{−1}			35 - 6000
	Spindle nose shape		—			JIS A2-5"
	Acceleration time (Note 4)		s			2.2
	Motor output (25%ED)		kW			11
	Maximum torque (15%ED)		N·m			90
	Number of tools					pieces
Turret	Tool size	Outside turning	mm	□25		
		Inside turning		φ40		
		Rotary drill		φ20		
		Rotary tap		M12	M12 [1st spindle] M10 [2nd spindle]	
		Rotary end mill		φ20		
	Indexing time	one/full	s	0.2/0.6		
	Mill spindle rotating speed		min ^{−1}	25 - 4500 (Option 6000)		
	Mill spindle motor output (10-min. rating)		kW	5.5		
	Mill spindle maximum torque		N·m	35		

Item			Unit	Machine models and specifications		
				QTN200-IIIM		QTN200-IIIMS
				500U	1000U	
Tailstock	Center bore		MT	Dead center No. 5	Built-in center No. 4	—
	Travel (Tailstock)		mm	550	1050	
	Maximum thrust		N	6867		
Feed axes	Rapid traverse	X/Z/W (MS)	m/min	30/33		30/33/30
		C	min ⁻¹	555		
	Rapid traverse time constant	X/Z/W (MS)	ms	85/90	85/130	85/90/65
		C		195		195 [1st spindle] 125 [2nd spindle]
	Travel	X	mm	230 (225 + 5)		575 (420 + 155) 585 (580 + 5)
		Z		575 (570 + 5)	1085 (1080 + 5)	
		W		—		
Others	Coolant tank capacity		L	160	230	190
	Power requirement [cont./30-min. rating]	JPN, Asia	kVA	30.7/35.8		
		USA, EU		41.0/46.8		
	Air pressure		MPa	0.5		
Total air capacity		L/min (ANR)	150			
Total	Spindle center height		mm	1020		
	Length (Note 3)	JPN		2560	3480	2765
		USA, Asia		2700		2930
		EU		2535		2765
	Width				1780	1908
	Height			1840	1870	1840
	Floor space required (Note 3)	JPN	m ²	4.56	6.64	4.92
		USA, Asia		4.81		5.22
		EU		4.51		4.92
Machine mass		kg	4900	5600	5100	
Noise	Average noise level at operator's position (depending on optional equipment)		dBA	Max. 80		

Note 1: For the use of a hollow chuck & cylinder BB08A0615 + S1875-15Y (KITAGAWA).

Note 2: The rigidity and holding force of the workpiece support are not allowed for.

Note 3: Depends upon the type of the chuck used.

Note 4: Time required for the acceleration from 0 to 85% of the maximum speed (for the standard chuck) depends on the load inertia.

Note 5: The figures indicated on the machine plates shall be applied if different from the manual.