



NT4250 DCG/1500SZ

Multi-axis Turning Cent

Machine Specifications

	Item		NT4250 DCG/1500SZ
Capacity	Max. swing of workpiece	mm (in.)	730 (28.7)
	Swing over cross slide	mm (in.)	730 (28.7) <400 (15.7) turret 2>
	Max. distance between centers	mm (in.)	1,862 (73.3)
	Max. turning diameter	mm (in.)	Tool spindle: Capto C6 660 (25.9) Turret 2: 350 (13.7)
	Max. turning length	mm (in.)	1,542 (60.7)
	Bar work capacity	mm (in.)	80/80 (3.1/3.1 <Headstock 2>)
	Travel	X-axis travel<tool spindle>	mm (in.)
Y-axis travel<tool spindle>		mm (in.)	±210 (±8.3)
Z-axis travel <tool spindle>		mm (in.)	1,550 + 100 (61.0 + 3.9) <for ATC>
B-axis rotation range <tool spindle>			±120°
(X-axis travel <turret 2>)		mm (in.)	195 (7.7)
(Z-axis travel <turret 2>)		mm (in.)	1,525 (60.0)
Max. spindle speed		min ⁻¹	4,000 [High output: 4,000]
Spindle 1	Number of spindle speed ranges		2 <winding change-over>
	Type of spindle nose		JIS A ₂ -8
	Through spindle hole diameter	mm (in.)	91 (3.6)
	Min. spindle indexing angle		0.0001°
	Spindle bearing inner diameter	mm (in.)	140 (5.5)
	Spindle torque <25 %ED/10 min/30 min/cont>	N·m (ft·lbf)	724/600/538/410 (534/442.5/396.8/302.4) [723/599/560/410 (533.3/441.8/413/302.4)]
	Max. spindle speed	min ⁻¹	4,000 [High output: 4,000]
Spindle 2	Number of spindle speed ranges		2 <winding change-over>
	Type of spindle nose		JIS A ₂ -8
	Through spindle hole diameter	mm (in.)	91 (3.6)
	Min. spindle indexing angle		0.0001°
	Spindle bearing inner diameter	mm (in.)	140 (5.5)
	Spindle torque <25 %ED/10 min/30 min/cont>	N·m (ft·lbf)	724/600/538/410 (534/442.5/396.8/302.4) [723/599/560/410 (533.3/441.8/413/302.4)]
	Number of tool stations		1
Tool spindle (turret 1)	B-axis indexing time	s	0.65 [0.4]/90°
	Min. B-axis indexing angle		1° [0.0001°]
	Max. tool spindle speed	min ⁻¹	12,000
	Taper hole of rotary tool spindle		BT40 [Capto C6] [HSK-A63] [KM-63]
	Inner diameter of rotary tool spindle bearing	mm (in.)	70 (2.8)
	Tool storage capacity		20 [40] [100] [179] [239]
	Max. tool diameter <with adjacent tools>	mm (in.)	70 (2.7)
	Max. tool diameter <without adjacent tools>	mm (in.)	140 (5.5)
	Max. tool length	mm (in.)	400 (15.7)
	Max. tool mass	kg (lb.)	8 (17.6) [10 (22.0)]
	Tool changing time <tool-to-tool>	s	1.25
	Spindle torque <10 %ED/cont>	N·m (ft·lbf)	120/44 (88.5/32.5)
Turret 2	Number of tool stations		12
	Turret indexing time	s	0.28
	Shank height for square tool	mm (in.)	25 (1)
	Shank diameter for boring bar	mm (in.)	Max. 50 (2)
	Max. rotary tool spindle speed	min ⁻¹	[6,000]
	Spindle torque <15 %ED/5 min/cont>	N·m (ft·lbf)	[40/30/15 (29.5/22.1/11.1)]
			Tool spindle X: 50 (1,968.5) m/min, Y: 30 (1,181.1) m/min, Z: 50 (1,968.5) m/min, Turret 2 X: 30 (1,181.1) m/min, Z: 30 (1,181.1) m/min Headstock 2 ZS: 30 (1,181.1) m/min
Feedrate	Rapid traverse rate		

		B: 40 [100] min ⁻¹ , C: 250 min ⁻¹	
Motor	Spindle 1 drive motor <30 min/cont>	kW (HP)	22/18.5 (30/24.7) [26/22 (34.7/30)]
	Spindle 2 drive motor <30 min/cont>	kW (HP)	22/18.5 (30/24.7) [26/22 (34.7/30)]
	Tool spindle drive motor <10 min/cont>	kW (HP)	18.5/11 (24.7/15)
	Turret 2 rotary tool spindle drive motor <5 min/cont>	kW (HP)	[5.5/3.7 (7.5/5)]
	Coolant pump motor <60 Hz/50 Hz>	kW (HP)	1.210 (1.61)/0.730 (0.97)×1 1.040 (1.40)/0.635 (0.84)×3
Power sources	Electrical power supply <Standard, cont>	kVA	80.6
	Compressed air supply	MPa (psi), L/min (gpm)	0.5 (72.5), 450 (118.8) <ANR>
Tank capacity	Coolant tank capacity	L (gal.)	hinge type: 640 (169.0) hinge type + scraper type + drum filter: 896 (236.5)
	Machine height <from floor>	mm (in.)	2,793 (110.0) [2,927 (115.2) <Number of tools: 100>]
Machine size	Floor space <width×depth>	mm (in.)	5,391 × 3,272 (212.2 × 128.8)
	Mass of machine	kg (lb.)	25,600 (56,320)

[] Option

- Bar work capacity: Depending on the chuck/cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
- Max. spindle speed, Max. rotary tool spindle speed: Depending on restrictions imposed by the workpiece clamping device, fixture and tool used, it may not be possible to rotate at the maximum spindle speed.
- JIS: Japanese Industrial Standard
- B-axis indexing time: motor rotation time (excluding B-axis clamping/unclamping time).
- Turret 2 indexing time: motor rotation command time.
- Power sources, machine size: the actual values may differ from those specified in the catalogue, depending on the optional features and peripheral equipment.
- ANR: ANR refers to a standard atmospheric state; i. e., temperature at 20 °C (68 °F); absolute pressure at 101.3 kPa (14.7 psi); and relative humidity 65 %.

