

# MACHINE SPECIFICATIONS

Description			Unit	DNM 200/5AX	DNM 350/5AX
Travel	Travel distance	X	mm (inch)	400 (15.7)	400 (15.7)
		Y	mm (inch)	435(+180, -255) (17.1 (+7.1, -10.0))	655 (25.8)
		Z	mm (inch)	500 (19.7)	
		A	deg	150 (+30 ~ -120)	
		C	deg	360	
	Distance from spindle nose to table top		mm (inch)	30 ~ 530 (1.2 ~ 20.9)	50 ~ 550 (2.0 ~ 21.7)
Feedrate	Rapid traverse rate	X	m/min (ipm)	36 (1417.3)	
		Y	m/min (ipm)	36 (1417.3)	
		Z	m/min (ipm)	30 (1181.1)	
		A	r/min	20	
		C	r/min	30	
	Cutting feedrate	X, Y, Z	m/min (ipm)	15000 (590.6)	
A, C		deg/min	7200		
Table	Table size		mm (inch)	Ø200 (7.9)	Ø350 (13.8)
	Table loading capacity		kg (lb)	40 (88.2) (Horizontal) / 60 (132.3) (Vertical)	250 (551.1)
	Table type		-	T-SLOT (12H8)	T-SLOT (14H8)
Spindle	Max. spindle speed		r/min	12000	12000 (20000)
	Spindle taper		-	ISO #40, 7/24 TAPER	
	Max. spindle torque		N·m (ft-lbs)	117 (86.3)	117 { 167 / 60 } (86.3 {123.2 / 44.3})
Automatic tool changer	Type of tool shank		-	MAS403 BT 40	
			-	{ CAT 40 }	
			-	{ DIN 69871-A40 }	
	Tool storage capacity		ea	30 { 40 }	30 { 40, 60 }
	Max. tool diameter (Continuous)		mm (inch)	30 Tools : 80 / 40 Tools : 76	
	Max. tool diameter (Near port empty)		mm (inch)	30 Tools : 125 / 40 Tools : 125	
	Max. tool length		mm (inch)	300 (11.8)	Ø80 : 270 / Ø125 : 210 (3.15 : 10.6 / 4.9 : 8.3)
	Max. tool weight		kg (lb)	8 (17.6)	
	Max. tool moment		N·m (ft-lbs)	5.88 (4.3)	
	Method of tool selection		-	Memory Random	
	Tool change time ( tool-to-tool )		s	1.3	
	Tool change time ( chip-to-chip )		s	3.7	
Motor	Spindle motor power		kW (Hp)	18.5 / 11 (24.8 / 14.8)	18.5 / 11 (22 / 18.5 or 22 / 11) (24.8 / 14.8 (29.5 / 24.8 or 29.5 / 14.8))
	Coolant pump motor power		kW (Hp)	0.25 (0.3)	0.4 (0.5)
Power source	Electric power supply		kVA	31.3	40.6 (45.7)
	Compressed air supply		Mpa (psi)	0.54 (78.3)	
Tank capacity	Coolant pump capacity		L (gallon)	5.5 (1.5)	13 (3.4)
	Lubrication tank capacity		L (gallon)	3.1 (0.8)	
Machine size	Height		mm (inch)	3091 (121.7)	3190 (125.6)
	Length		mm (inch)	2835 (111.6)	3209 (126.3)
	Width		mm (inch)	2490 (98.0)	3150 (124.0)
	Weight		kg (lb)	5500 (4059.0)	8500 (6273.0)
Control	NC System		-	DN Solutions Fanuc i Plus, Fanuc 31i Plus	DN Solutions Fanuc i Plus / Fanuc 31i Plus / HEIDENHAIN