

3-2 General Specification
3-2-1 MEGATURN NEXUS 900/900M

Item			Unit	Machine model and specification	
				MEGATURN NEXUS 900	MEGATURN NEXUS 900M
Capacity	Chuck size		in	18 (15, 21, 24, 28, 32, or 36: option)	
	Maximum swing		mm [in]	φ1000 [φ39.37]	
	Swing over carriage (Note 1)		mm [in]	φ940 [φ37.00]	
	Standard machining diameter		mm [in]	φ352.2 [φ13.87]	φ356.4 [φ14.03]
	Maximum machining diameter		mm [in]	φ920 [φ36.22]	
	Maximum machining height (Note 2)		mm [in]	800 [31.50]	
	Distance between spindle end and turret end face		2-axis	154 [6.125] to 1030 [40.375]	
			M	163 [6.619] to 1039 [40.869]	
	Max. support weight (Note 3)		kg [lbs]	3000 [6600]	
	Max. load inertia around C-axis (Note 4)		kg·m ²	—	125
Spindle	Spindle speed (Note 5)		min ⁻¹	1250	
	Spindle nose		—	JIS A2-15°	
	Bore (Note 6)		mm [in]	φ120 [4.72]	
	Motor output (Half-hourly/Cont. rating)		kW	30/22	
	Maximum torque		N·m [ft·lbf]	3655 [2696.8]	
Turret 2-axis	Number of tools		pieces	12 (12 positions)	
	Tool size	Turning	Outside	□32 [1.25]	
			Inside	φ50 [2]	
	Indexing time (Next/opposite pos.)		s	0.4/1.0	
Turret M	Number of tools		pieces	12	
	Tool size	Turning	Outside	□32 [1.25]	
			Inside	φ50 [2]	
		Milling	Drill	Max. φ23 [φ0.91]	
			End-mill	Max. φ25 [φ0.98]	
			Tap	Max.: M24 × 3 [1-8 UNC]	
	Indexing time (Next/opposite pos.)		s	0.45/1.05	
	Milling spindle motor output (4-min. rating)		kW	7.5	
	Max. milling spindle speed		min ⁻¹	4000	
Milling spindle maximum torque		N·m [ft·lbf]	95 [70.1]		
Feed axes	Rapid traverse	X	24 [945]		
		Z	24 [945]		
	Travel	X	470 (485 + 5) [18.5 (18.125 + 0.375)]		
		Z	876 (871 + 5) [34.25 (34.125 + 0.125)]		
Others	Coolant tank capacity		L [ft ³]	460 [16.24]	
	Power requirement for 2-axis spec. (Cont./Half-hourly rating)		kVA	46.6/58.1	
	Power requirement for milling spec. (Cont./Half-hourly rating)				
	Air pressure		MPa [psi]	0.5 [73]	
	Air requirement (exclusive of optional equipment)		L/min [ft ³ /min] (ANR)	30 [1.06]	50 [1.76]