

THE ACCURACY & RIGIDITY YOU EXPECT FROM *NIIGATA*



WITH AN UNEXPECTED
PRICE TAG

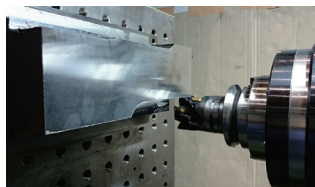
\$199,000

N500 | 40 TAPER | 15,000 RPM | 500 mm

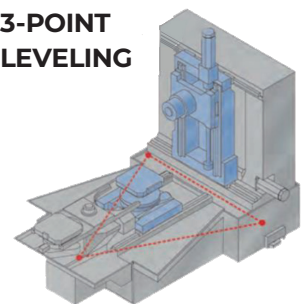
N-SERIES - SUPERIOR HORIZONTAL MACHINING CENTER FOR HEAVY-DUTY & HIGH ACCURACY MACHINING

- **BOX in BOX®** - Niigata, The originator of the "BOX in BOX®" design.
- **RAPID TRAVERSE 2362ipm** - X, Y, Z, all axis rapid traverse for increased production capacity.
- **15000/12000rpm Spindle** - The spindle speed, power and accuracy for full range of cutting conditions.

*The Quality you Expect in a NIIGATA.
Built in Niigata City, Japan.*



**3-POINT
LEVELING**



**TALK TO OUR EXPERTS.
CONTACT US NOW!**

N Series line-up

SUPERIOR HORIZONTAL MACHINING
CENTER LINE UP FOR HEAVY DUTY &
HIGH ACCURACY MACHINING

N500



N600



N700



TRAVEL & WORK CAPACITY	X axis travel	730mm (28.74")	800mm (31.5")	1000mm (39.37")
	Y axis travel	700mm (27.56")	750mm (29.53")	950mm (37.40")
	Z axis travel	760mm (29.92")	850mm (33.46")	1050mm (41.34")
	Spindle center line to pallet surface	80~780mm (3.15~30.71")	80~830mm (3.15~32.68")	80~1030mm (3.15~40.55")
	Spindle nose to table center line	100~860mm (3.94~33.86")	100~950mm (3.94~37.40")	100~1150mm (3.94~45.28")
TABLE	Table working surface	500×500mm (19.69×19.69")	500×500mm (19.69×19.69")	630×630mm (24.80×24.80")
	Maximum workpiece envelope	φ700mm×H900mm (φ27.56"×H35.43")	φ800mm×H1000mm (φ31.5"×H39.37")	φ1100mm×H1200mm (φ43.31"×H47.24")
	Table increments	0.001°	0.001°	1°[0.001°]
	Maximum mass on pallet	500kg (1102.31lbs)	800kg (1763.70lbs)	1200kg (2645.55lbs)
SPINDLE	Spindle speeds	15000min ⁻¹ (15000rpm)	12000min ⁻¹ (12000rpm)	12000min ⁻¹ (12000rpm)
	Spindle motor	AC37/22kW (AC49.62/29.50HP)	AC45/26kW (AC60.35/34.87HP)	AC45/26kW (AC60.35/34.87HP)
	Spindle max. torque	303N·m (223.48ft·lbs)	623N·m (459.50ft·lbs)	623N·m (459.50ft·lbs)
FEEDRATE	Rapid traverse X-Y-Z	60m/min (2362.2ipm)	60m/min (2362.2ipm)	60m/min (2362.2ipm)
	Cutting X-Y-Z	40m/min (1574.8ipm)	40m/min (1574.8ipm)	40m/min (1574.8ipm)
ATC	Tool magazine capacity, Chain	60	60	60
	Tool shank	CT 40 BIG PLUS	CT 50 BIG PLUS	CT 50 BIG PLUS
	Maximum milling cutter dia.	φ95mm (φ3.74")	φ120mm[φ130mm] (φ4.72"[φ5.12"])	φ120mm[φ130mm] (φ4.72"[φ5.12"])
	Maximum tool length	500mm (19.69")	550mm (21.65")	630mm (24.80")
	Maximum tool mass	12kg (26.46lbs)	30kg (66.14lbs)	30kg (66.14lbs)
	Tool change time	1.2s(4kg)1.7s(12kg) 1.2s(8.82lbs)1.7s(26.46lbs)	1.9s(10kg)2.5s(20kg)3.1s(30kg) 1.9s(22.05lbs)2.5s(44.09lbs)3.1s(66.14lbs)	1.9s(10kg)2.5s(20kg)3.1s(30kg) 1.9s(22.05lbs)2.5s(44.09lbs)3.1s(66.14lbs)
APC	Type	Direct Turn	Direct Turn	Direct Turn
	Number of pallets	2	2	2
ACCURACY	Positioning / full stroke Z-Y-Z	±0.002mm (±0.00007874")	±0.002mm (±0.00007874")	±0.002mm (±0.00007874")
	Repeatability Z-Y-Z	±0.001mm (±0.00003937")	±0.001mm (±0.00003937")	±0.001mm (±0.00003937")
GENERAL	Machine weight approx	15000kg (33069.34lbs)	16000kg (35273.96lbs)	23000kg (50706.32lbs)



NIIGATA MACHINE TECHNO A World Leader of Horizontal Machining Centers

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