



YOUR PARTNER IN PRECISION MACHINING & AUTOMATION



# Made in Japan



SPECIFICATIONS	ITEM	N500	
TRAVEL & WORK CAPACITY	X axis travel	730 mm	28.74"
	Y axis travel	700 mm	27.56"
	Z axis travel	760 mm	29.92"
TABLE	Maximum workpiece envelope	φ700 mm x H1000 mm	φ27.56" x H39.4"
SPINDLE	Spindle speeds	15000 min <sup>-1</sup>	15000 rpm
	Spindle motor	AC37/22 kw	AC50/30 HP
FEEDRATE	Rapid traverse X-Y-Z	60 m/min	2362 ipm
AUTOMATIC TOOL CHANGER (ATC)	Tool magazine capacity, chain	60	
	Tool shank	CT 40 BIG PLUS	
	Tool change time	1.2s(4 kg) 1.7s(12 kg)	1.2s(8.82 lbs) 1.7s(26.46 lbs)
GENERAL	Machine weight approx.	15000 kg	33000 lbs



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### N500 MACHINING CENTER

- 15,000rpm Max. AC37kW (49hp), 303Nm (223ft. lbs.), #40
- Big Plus Spindle with face air blow
- Automatic Pallet Changer (2APC) with 2 standard pallets
- Table working surface 500mm x 500mm
- NC table (0.001 degree / 4th axis) with B axis scale
- Max. load on pallet 500kg (1100 lbs.)
- Automatic Tool Changer with 60 tools chain magazine style, CAT40-BT Mas-2 (30 degree)
- Max tool mass 12kg (26lbs)
- Coolant Through Spindle 215 psi
- Overhead shower coolant, Standard type, Pump 1.1kW, Coolant tank 540L
- Outside chip conveyor (Hinge-pan type), Discharge height: **1000mm**, discharge direction: Side
- Rotary Union, DEUBLIN 1109-040-188
- Three color signal light
- Z axis augers
- 2APC Mounted type sub-operation panel
- Control panel with 4 doors
- Standard maintenance tools
- Niigata Hi-Contour 3 for High-Speed Machining Soft Package
- Preparation of Chip Blaster
- 8 pcs additional M codes
- Auto Grease lubrication unit for XYZ linear guideway & ball screw nut
- Thermal displacement compensation, sensor-less type
- Preparation of probing system
- Probe interface
- T-code double check "Enable"
- Tool breakage detection "Enable"
- Memory lock SW offset data Disable, MC parameter
- SPG door interlock for USA, MC parameter
- All coolant stop when door opening, MC parameter
- Special breaker for UL regulation, Main breaker
- FANUC F31i-B Plus
- 15" operation panel
- Helical Interpolation
- High speed skip
- Inverse time feed
- Part program storage 4MB (10240m)
- Number of registered program Expansion 1000
- Tool offset pairs 400
- Add. Work coordinate system (48 pairs)
- Optional block skip

## 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.

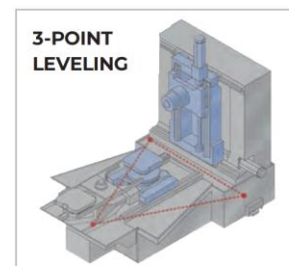
*The Quality you Expect in a NIIGATA. Built in Niigata City, Japan.*



**N600**  
50 TAPER | 12,000 RPM | 500 mm



**N700**  
50 TAPER | 12,000 RPM | 630 mm



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