

Proposal for **NOMURA** Model NN-20U5

Date
Quote #
Customer
Address
City, State, Zip
Contact:

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Prices are valid 60 days from date of quote. NN-20U5

The NN-20U5 comes standard with 5 OD tools, 4 stationary end-working tools, 4 live cross drilling/milling spindles with .001 degree C-Axis. A variety of options are available which include a 3 spindles face off center drilling unit drill/mill & 2 spindle cross drill/mill unit. A 5 spindles cross drilling unit is also available.

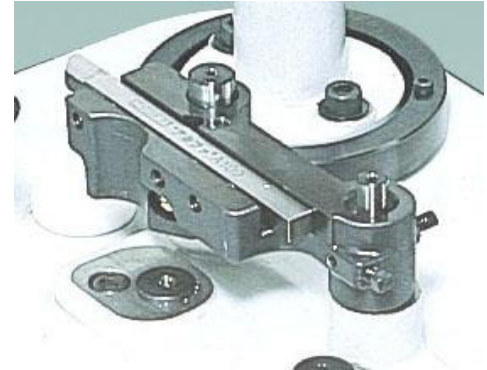
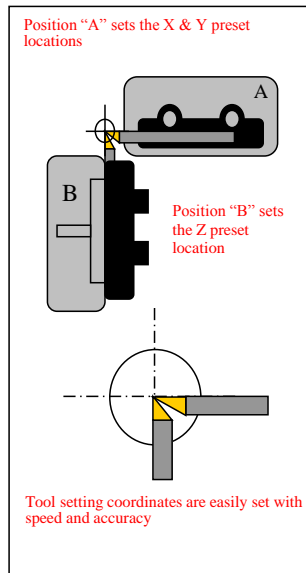


Nomura Swiss Style NN-20U5 Automatic Lathe

GENERAL MACHINE SPECIFICATIONS	INCH	METRIC
Maximum Bar Diameter	.787"/.984	20mm/25mm
Maximum One Chucking Turning Length	7.87"	200mm
Spindle Center Height	39.370"	1,000mm
Hole Through Spindle	.945"/1.063"	24mm
Floor Space Required	64.960" x 43.307"	1,650 x 1,100 mm
Machine Height	66.142"	1,680 mm
Machine Weight	2,970 lbs.	1,350 kg
Machine Power Requirement	208/220V - 50Amp 3 Phase	
Apparent Power Requirement	13.2 KVA	
Air Requirement	73 psi	
Cutting Oil Tank Capacity	21 gal	63 l
MAIN SPINDLE	INCH	METRIC
Horsepower	5 HP AC	3.7Kw
Collet Type	Nomura Specification	
Guide Bushing	Nomura Specification	
Minimum Input Increment	0.0001"	0.001mm
Speed Range Shift	Automatic via Direct Drive	
Spindle Indexing Increment	C - Axis 0.001 Degree	
Spindle Speed Selection	Direct RPM via Program	
Spindle Speeds	300 - 10,000 RPM	

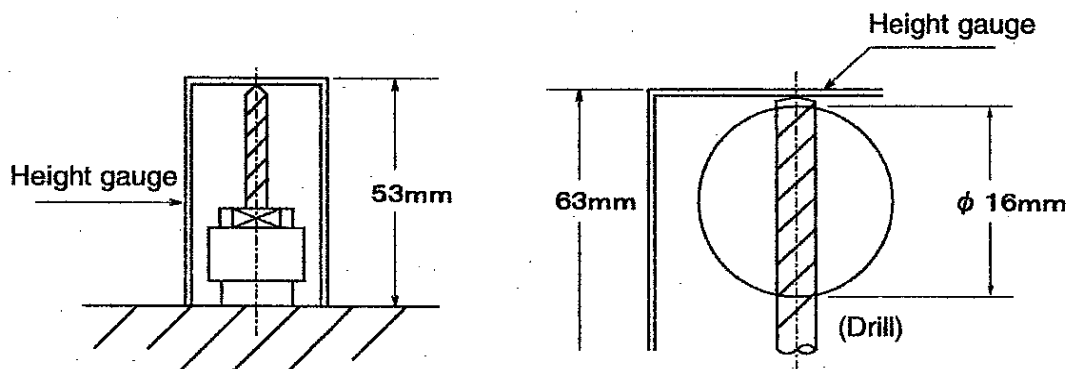
LIVE SPINDLES	INCH	METRIC
Horsepower	1.0 HP AC	.75Kw
Collet Size		ER16
Number of Drill units		4
Cross Drilling Spindle Speed		300 - 6,000 RPM
Maximum Drill Size	0.394"	10mm
Maximum Tap Size	1/4"-20	M6
TURNING/END WORKING TOOLS	INCH	METRIC
Shank Size	.500" Sq. x 5.100"	12.7mm Sq. x 130mm
Number of OD Tools		5
Number of ID Tools		4
Collet Size		ER16
Maximum Drill Size	0.394"	10mm
Maximum Tap Size	5/16"-18	M8
Maximum Drill Depth	1.96"	50mm
BED and SLIDES	INCH	METRIC
Base Casting	One Piece - Full Length	
Way Construction	Linear Z axis / Dovetail Ways X & Y Axis	
X Axis Drive Motors	1.3 HP	1.0Kw
Y, Z Axis Drive Motors	0.7 HP	0.5Kw
X & Y Axis Rapid Traverse Rate	1400 IPM	36m/min
Z Axis Rapid Traverse	1400 IPM	36m/min

Faster Setups = More Parts



Off Line Tool Presetter

Nomura's original "Tool Presetter" increases machine utilization and part production through the presetting of turning tooling off the machine. The presetter sets the tool in X, Y and Z axis and eliminates the requirement to touch the tools off of the part in the machine. It compensates for variances in insert tolerances and provides for accurate tool to tool changes as tools wear. It allows the operator to change a worn tool out as quickly as they can loosen two (2) screws, pull the old tool, replace it with a preset tool, tighten it down and get back into production.



Cross Drill Height Gauges

Two quick set drill height gauges are provided for fast set up or change over of drills/mills/taps for

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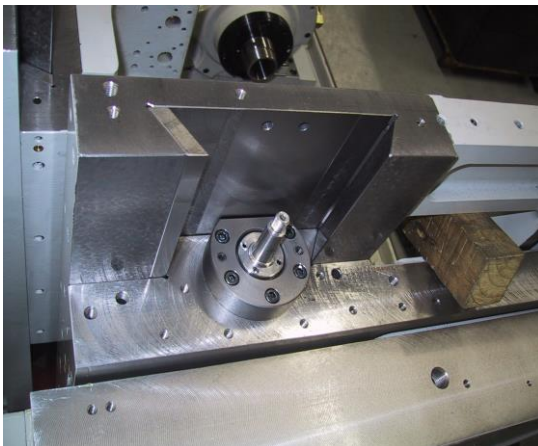
Two quick set and height gauges are provided for fast set up or change over of diameters for machining to either the centerline or through the part. It allows the operator to quickly loosen the collet nut, replace the worn tool, set the tool against the gauge, tighten the collet nut and get back into production.

Rigid Machines = Faster Metal Removal



Full Length Base Casting

Nomura machine base provides a stable platform for the machine components. The Back spindle is supported by the base and is not cantilevered out on a shelf from the main base as with other machines. This provides for improved surface finishes, precision tolerances and extended tool life.



Hand Scrapped Dovetail Ways

Hand scraped dovetail ways on the critical X and Y axis provide for highly accurate, precision parts, heavier depths of cut and higher feedrates for shorter cycle times.

Long Term Precision = More Saleable Parts



Solid Cast Construction

All machine components are of cast construction for long term rigidity, vibration dampening and precision part manufacturing. This includes drive motor mounts, spindle motor housings, ball screw pillow blocks, cross-slides and the mounting base for part conveyors.