MACHINE SPECIFICATIONS

	Total Marin		
The state of the s	lodel Name	BNJ-34S	BNJ-42S
Machining Capacity & Chu			
Power Chuck & Size	L/R Spindle	5"/4" Oil Hyd.	5"/4" Oil Hyd.
Max. Bar Capacity	L/R Spindle		φ42(1.65"D)/φ42(1.65"D
Type of Collet Chuck	L/R Spindle	Stationary	Stationary
Max. Turning Length		100mm(3.94")	100mm(3.94")
Spindle			
Spindle Motor 30min./Cont. Rat.	L Spindle R Spindle	VAC7.5/5.5kW VAC3.7/2.2kW	VAC11/7.5kW VAC5.5/3.7kW
Spindle Speed Range	L Spindle	80~6,000 min ⁻¹	67~5,000 min ⁻¹
	R Spindle	67~5,000 min ⁻¹	67~5,000 min ⁻¹
Cs Axis Least Unit	L/R Spindle	±0.02°	±0.02°
L-Turret		A CONTRACTOR	
Type of Turret		12 St. Turret	12 St. Turret
Tool Shank Size		□20mm(3/4"Sq.)	□20mm(3/4"Sq.)
Tool Hole Diameter		φ25mm(1" Dia.)	φ25mm(1" Dia.)
Turret Indexing Time		0.2Sec./1St.	0.2Sec./1St.
Turret Indexing Method		Curvic C. & AC Servo	Curvic C. & AC Servo
Buck working R-Turret(Opt.)			
Type of Turret		6 St. Segmental Turret	6 St. Segmental Turret
Tool Shank Size		20mm(3/4"Sq.)	20mm(3/4"Sq.)
Tool Hole Diameter		φ25mm(1" Dia.)	φ25mm(1" Dia.)
Turret Indexing Time		0.2Sec./1St.	0.2Sec./1St.
Turret Indexing Method		Curvic C. & AC Servo	Curvic C. & AC Servo
Revolving Tools(L-Turret	t/ Opt.)		
No. of Revolving Tool Stations		6	6
Tool Spindle Speed Range		0~4,000 min ⁻¹	0~4.000 min-1
Tool Spindle Driving Motor		AC Servo 2.5kW	AC Servo 2.5kW
Machining Capacity	Drill/ Tap	φ13mm/M8×1.25	φ13mm/M8×1.25
Machine Dimensions			
Floor Space		2,665×1,455mm (105"×57")	2,655×1,455mm(105"×57")
Machine Weight		4,250kg(9,370Lbs.)	
Others			
Coloob Cuesd Interlegic Content 5			

Splash Guard Interlock, Coolant, Pneumatic Unit, Machine Light, Regular Hand Tools Kit & Tool Box. Options

Cut-off Confirmation, High Pressure Coolant (Main Turret), R Spindle Inner Coolant and Work Ejector, Revolving Tools and Driving Unit., Spindle Brake for Main Spindle, Drill Breakage Detector, Air Blow, R Spindle Through Parts Carrier(Max. \$\phi 23\text{ mm}), Parts Catcher and Parts Conveyer, Hinge Type Chip Conveyer, Chip Box, Coolant Mist Collector and Dumper for Anti-back Fire, Coolant Revel Switch, Magazine Loaded Automatic Bar Feeder, Signal Light (3Steps), Auto Door,

NC SPECIFICATIONS MIYANO-FANUE

· Simultaneous Control Axis	3 Axis/2 System Line, X1, Z1-Axis and X2, Z2(B), Cs1, Cs2 Axis	
· Min. Input Increment	0.001mm	
· Min. Output Resolution	X Axis: 0.0005mm, Z axis: 0.001mm	
 Parts Program Storage Capacity 	16,000ch (40m / 131 Feet Tape Length), 63 Programs	
· Spindle Function	Spindle Speed S5Digits Direct Specify, Constant Cutting Speed Control	
· Rapid Traverse Rate	18m/min. / 708 IPM(X, Z Axis), 20m/min. / 787 IPM (B Axis)	
· Cutting Feed Rate	F3.4 Digit Direct Specify	
· Cutting Feed Rate Override	0~150%(10% Steps)	
· Interpolation	G01, G02, G03	
· Threading	G32, G92	
· Canned Cycle	G90, G92, G94	
· Work Coordinate Setting	Automatic Setting, 32 Sets by the Geometry offset Function.	
· Tool Selection and Work	Tool Selection 1~32 can be Done by the First Digit of the	
Coordinate System	T-4 Digit Code.	
· Tool Wear Offset	Last Two Digit of the T-4 Digit Code.	
 Direct Input of the Tool Position 	Measured Value can be Directly Key in.	
· Input/ Output Interface	RS-232C、PC Card Slot.	
 Automatic Operation 	1 Cycle Operation / Continuous Operation, Single Block Operation	

· Others

7.2" Monochrome LCD, Decimal Point Input, Manual Pulse Generator, Memory Protect, Start Interlock, AC Digital Servo, Polar Coordinate Interpolation, Synchronous Mixing feed Function, etc.

Block Delete, Machine Lock Dry Run. Feed Hold

Chamfering/ Corner R Control, Tool Nose R Compensation, Cs Axis Control, Wear Offset, Inch/ Metric Conversion, Constant Cutting Speed Control, Background Editing, Filler Tube Assembly, Alarm Display, Custom Macro B.

NC Options

Multiple Repetitive Canned Cycle(G70~G76), Run Hour/Parts Number Countering, Additional Parts Program Storage (Total: 80m, 160m, 320m), Cylindrical Interpolation, Rigid Tapping Function(Spindle/ Revolving Tools), Total & Preset Counter. Superpose Feed Function A, Programmable Data Input (G10), continuous multi-lead thread cutting, Tool Life Management system, Variable Lead Thread cutting,



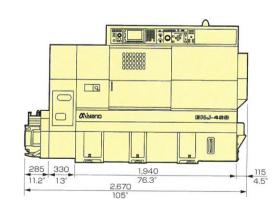
● PC Card Slot Data storage and loading of part programs and offset data is possible by a low cost ATA Flash memory card.

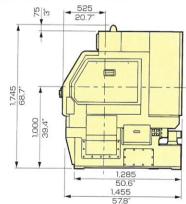
0

0

Note: The specifications are subject to change without notice. Machine in photo may not be exactly the same as the actual products

EXTERNAL VIEW





MIYANO MACHINERY JAPAN INC. 3-1.Shimorenjaku 7-chome, Mitaka-shi, Tokyo 181-0013, Japan Phone:0422-46-1111 Facsimile:0422-46-1130

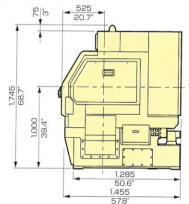
MIYANO MACHINERY INC.
Headquarters, Production division:
940 North Central Ave., Wood Dale, Illinois 60191 U.S.A.
Phone:630-766-4141 Facsimile:630-860-7266

MIYANO MACHINERY EUROPE GMBH. Feldheider Strasse 62. D-40699 Erkrath, Germany Phone:02104-30390 Facsimile:02104-303930

MIYANO MACHINERY ASIA CO., LTD. Room 1301, Kam Hing Building, No.20, Hillwood Road,

Tsimshatsui, Kowloon, Hong Kong Phone:2314-8128 Facsimile:2737-2304

Internet Home Page http://www.miyano-jpn.co.jp http://www.miyano-usa.com





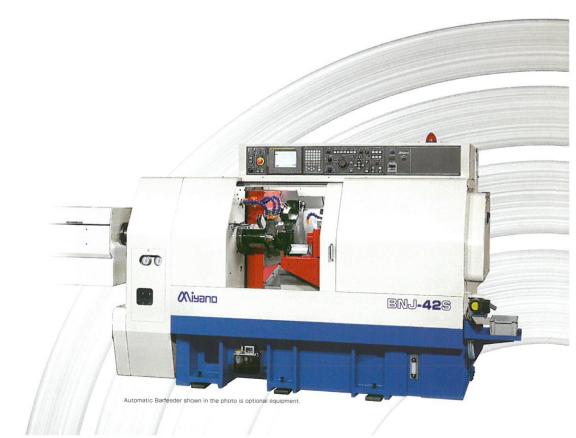
ISO 9002







CNC COMPACT TURNING CENTER with Two Spindles & Two Turrets





All New 2-Spindle/2-Turret Design Redefines Efficiency All new designs for simultaneous front & back machining improves complete-work machining efficiency.



Simultaneous machining significantly reduces cycle time.

The BNJ Series features a traversable R-spindle with 2 axis movement is "X" and "Z" Which, when combined with a unique backworking turret enables simultaneous front and backside machining operations.

Having the ability to perform overlapping control on the R-spindle working with L-turret and L-spindle, and independent left & right cutting operations with the backworking turret, the cutting cycle on the backside of a symmetrical workpiece was redused by almost 50%(excluding cut off operation). On other workpieces a saving on average of 35% can be achieved when compared to a twin spindle single turret machines.

While the L-turret works with the L-spindle, the R-spindle follows the movement of the L-turret by the added command values to simultaneously machine its own work-



Options



O Chip Conveyor

Cutoff Confirmation

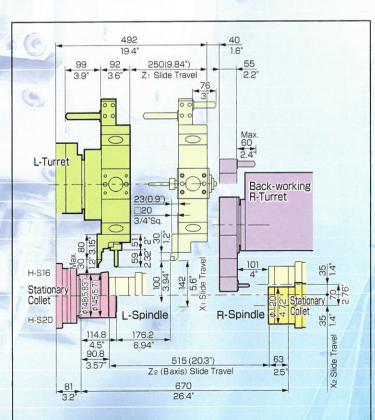


OParts Catcher

Traversable R-Spindle

Wide variety of tools assures optimum cutting

The BNJ offers tooling variety and options using proven tool holders developed for the BND Series, along with the latest NC functions to optimize machining efficiency.





L-Turret

Backworking R-Turret

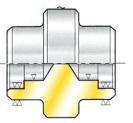
Simultaneous

■ Time Saved by Overlapping Control & Backworking Turret



BNJ Series





The stationary backworking turret works with the R-spindle. The turret uses a clearance position preventing collision during cutoff and overlapping machining by the R-spindle.