



CNC Services  
1235 Humbracht Cir, Unit H  
Bartlett, IL 60103

## Rebuilt 2001 Miyano BNE-51S

Rebuilt To Original Factory Specifications with 1 Year Parts and Labor Warranty For Machine and Control (see warranty details below)



(Representative Picture)

### Specs:

**Max. turning diameter:** Main / Sub Spindle 51mm

**Type of collet chuck:** Stationary Hardinge S22 on main and sub

**Max. turning length:** 3.54"

**Spindle speed range:** Main Spindle 54~5,000 rev/min.

**Spindle speed range:** Sub Spindle 54~4,000 rev/min.

**Spindle motor maximum rating:** Main Spindle 15HP

**Spindle motor maximum rating:** Sub Spindle 7.5HP

**Type of turret:** Upper/Lower Turret 12-station / 10-station

**Turret slide travel:** Upper Turret (X-axis / Z-axis) 5.9" / 14.96"

**Turret slide travel:** Lower Turret (X-axis / Z-axis) 4.5" / 4.9"

**No. of revolving tool stations:** Upper Turret 6

**Tool spindle speed range:** Upper Turret 203~4,050 rev/ min

**Tool spindle motor:** Upper Turret AC 3HP

**No. of revolving tool stations:** Lower Turret 5

**Tool spindle speed range:** Lower Turret 180~3,600 rev/ min

**Tool spindle motor:** Lower Turret AC 2HP

**Approximate Machine weight:** 15,620lbs

**Control:** Fanuc 18i-T



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**Machine:**

Rebuilt 2001 Miyano BNE-51S.....\$110,000  
With 1 year warranty on machine and control (see details below)

**Options:**

Chip Conveyor ..... Included  
Triple Alarm Light..... Included  
4 Live Tools ..... Included  
Installation (Customer to Pay Travel Expenses) ..... Included  
LNS Quickload Servo Short Loader (Sold As Is/No Warranty).....\$5,000

**Total Package Price..... \$115,000**

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**Warranty Details:**

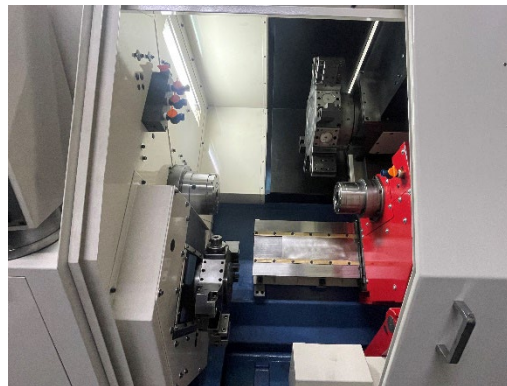
CNC Services will warranty the machine and the control for a period of one year from the date of installation covering both parts and labor. For customers outside of the state of Illinois, travel expenses will need to be covered by the customer.

Bar Feeder sold as is without warranty. Bar feeder will be hooked up and function tested prior to shipping.



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**Actual Pictures of S/N: BNE51128S**





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## **Rebuild Process**

*(All pictures for discription purposes)*



## **Evaluation and Disassembly:**

Initial evaluation of every component and subsystem followed by complete disassembly of the entire machine tool.

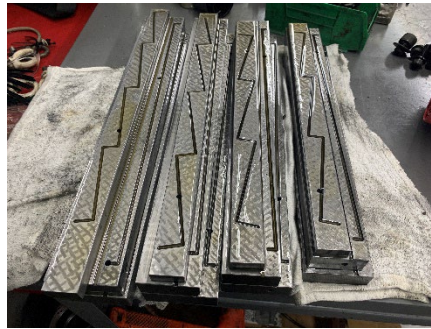
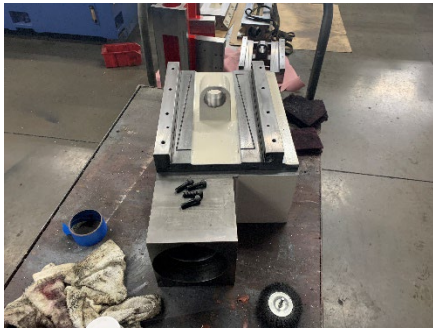




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## Slides

Slides are removed and reground to factory specifications. The slides are rescraped and the gib is either refit or replaced and scraped in. Ball screws are replaced. The ballscrews are installed with new housings, bearings and seals. All scrapers and wipers are replaced.



## Spindle

Spindle is completely rebuilt to factory specification with new bearings, seals and o-rings. All work done in house and precision equipment used. The spindle motor is rebuilt, cleaned, and painted.

## Turret

Turret is fully rebuilt with new seals, o-rings, and bearings.

## Hydraulics/Lubrication/Air/Coolant

Hydraulic pump is replaced with a new, modern pump and tank. All hydraulic hoses are replaced. Lubrication tank is replaced and receives a new filter and all new lubrication lines and flow proper units are installed. Through tool coolant pump and flood coolant pump are replaced and get new filters. New coolant lines installed. All air lines and solenoid valves are replaced.

## Control

Control is fully function tested and components are replaced or repaired as needed. All cables replaced as needed. All buttons and dials are removed, cleaned, tested and replaced as needed. All servos and boards are removed, tested, cleaned, and repaired or replaced as needed.



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## **Asthetics**

Casting is cleaned and painted. All guards are chemically stripped and receive a brand new powder coat paint job. All decals and warning labels are replaced.

## **Function Testing**

Machine gets a full set of factory alignments and is function tested for 24 hours straight without error.

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