



Zeman Technologies

The Finest Machine Tools

Since 1931

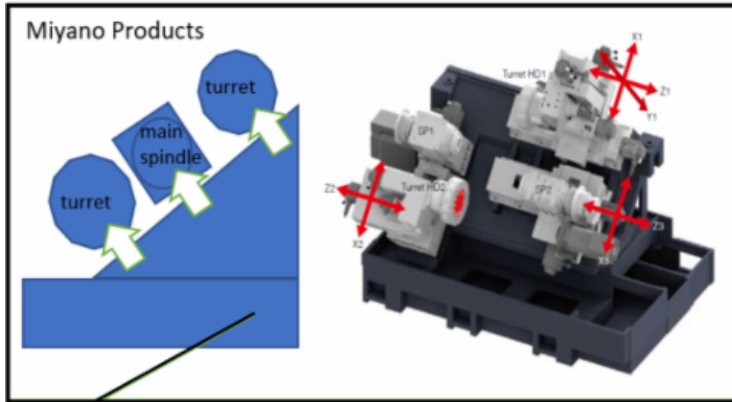
Call (630) 321-1500

Lathe Durability, Accuracy, Rigidity?

Not
Why Miyano?
Pt. 3
TECHNOLOGY OF CITIZEN MACHINERY

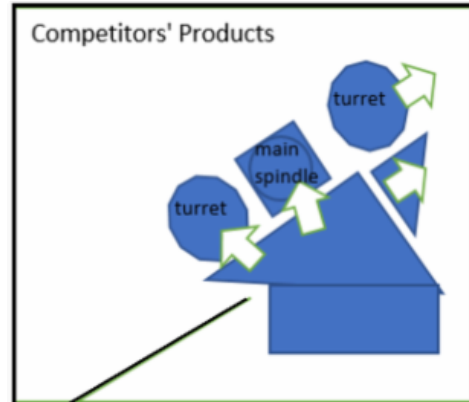
[Miyano's Key Technology
Platform Construction Beds \(Link\)](#)

The Miyano Foundation: All main components are installed on a flat surface (single plane), supported with thicker ribs for heavy duty machining. A machine bed with an integrated coolant tank structure offers high rigidity and less thermal displacement, ensuring accuracy and repeatability over the life of the machine.



Advantages: Single Plane Structure (Surface Plate Bed) minimizes heat distortion and maintains stable accuracy.

Miyano's high-rigidity turret structure provides powerful machining with phenomenal tool life.



Disadvantages: Uneven plane structure. This design cannot accommodate for heat distortion, making it harder to maintain accuracy.

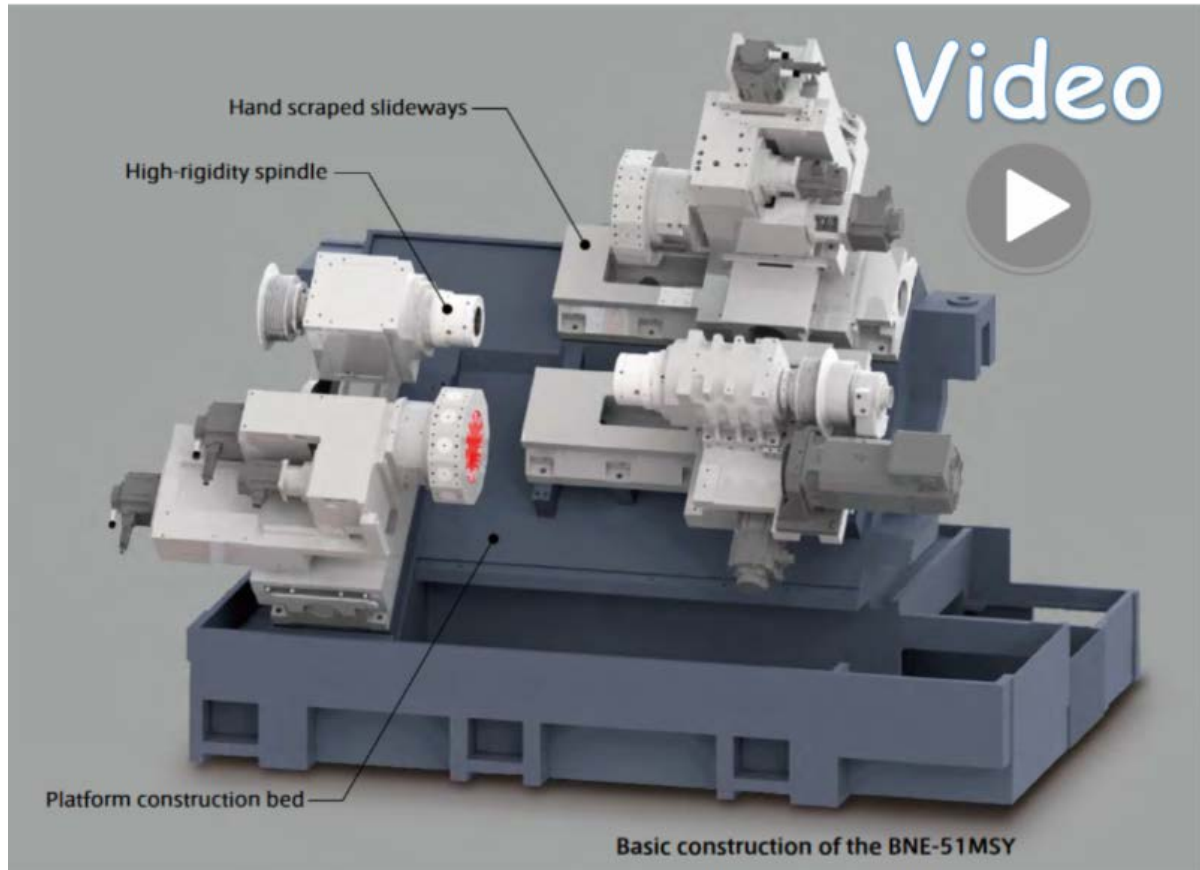
[The Full Story](#)

Superimposed Machining on the BNX-51MSY



Basic Construction of All Miyano Machines

Video



Basic construction of the BNE-51MSY

Sample Miyano Parts



Automotive Components

Hand-scraped slideways are preferred by automotive manufacturers of airbags, transmissions, ABS & more.

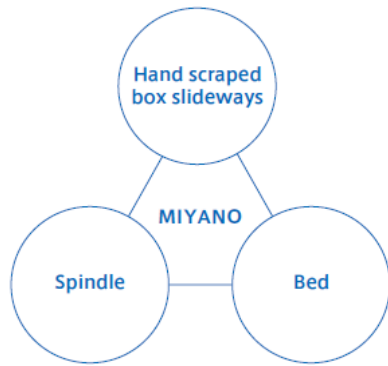
Oil, Gas & Hydraulic Parts

High-rigidity spindles are designed for large diameter drilling and tapping. 25-40 Nm cutting forces standard.

Fittings

The Miyano 'platform' bed reduces vibration in the machine, providing stable performance for years.

Did You Miss 'Why Not Miyano' Part I and II?



[Part I - High Accuracy...](#)



Thick Ribs Imparting High Rigidity

[Part II - High Rigidity...](#)

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