
▼ Details

CAPABILITIES:

- The ZEUS-86's high-rigidity, bridge-type monoblock structure allows high-speed, high-precision machining, while the minimized distance between the Z-axis guideways and spindle center provides greater stability
- The high-rigidity bed with ideal rib distribution guarantees static positioning accuracy of $\pm 0.000080''$ and $\pm 0.000030''$ repeatability
- The ZEUS-86 is capable of a wide spindle speed range (200-25,000 RPM) using an oil-mist lubricated spindle and a 20-HP AC spindle motor
- High-speed direct hard milling is possible via dry or semi-dry oil-mist systems
- New HSK-E50 holder achieves 6 times higher clamping force than a regular BT shank while dual balance cylinders reduce the load for the Z-axis ball screw and servo motor
- The ZEUS-86 is a unique member of the Roku-Roku machine family as it uses a twin drive system for the Y-axis. This is a twin direct drive motor/ball screw system that is designed to move the large table and workpiece weight and still maintain its high degree of accuracy
- The ZEUS-86 features a Fanuc 31i-B5 super high-speed processor and AI Contour Control II – A "NANO CNC system" with intelligent velocity control, NANO interpolation, and NANO smoothing
- The entire machine is designed using HIS (Heat Isolation System) that combines heat discharge fans on all axes and dual chiller systems to cool the spindle and machining coolant. Thermal growth control is held to $\pm 0.1^{\circ}\text{C}$ using this combined system.

COMPONENTS:

- High-rigidity structure for greater stability and accuracy in flood machining and hard milling
- High-horsepower machining using an oil-mist lubricated spindle and a 20-HP AC spindle motor
- Extended speed range – 200 through 25,000 RPM
- High-rigidity HSK-E50 tool holders, allowing 6x higher clamping force than a regular BT shank for highly reliable work
- 30-Position automatic tool changer
- Roller pack-type linear motion ways
- Twin drive ball screw Y-axis
- Dual Z-axis balance cylinder
- Z- and Y-axis thermal compensation
- Blum laser tool measurement system, standard
- 62.5-gallon coolant tank standard
- X, Y, Z axis linear scales
- Spindle chiller with 7-gallon oil tank

USER INTERFACE:

- Fanuc 31i-B5 super high-speed processor with AI Contour Control II and NANO interpolation

ADDITIONAL BENEFITS:

- remote360°-enabled (remote user monitoring, diagnostics, service support, and more)