

TR-100

Fully exhibits exceptional stability!

TR-100



TR-100A / TR-100E
Three Axes Linearways

TR-100AB / TR-100EB
Three Axes Boxways

TR-100

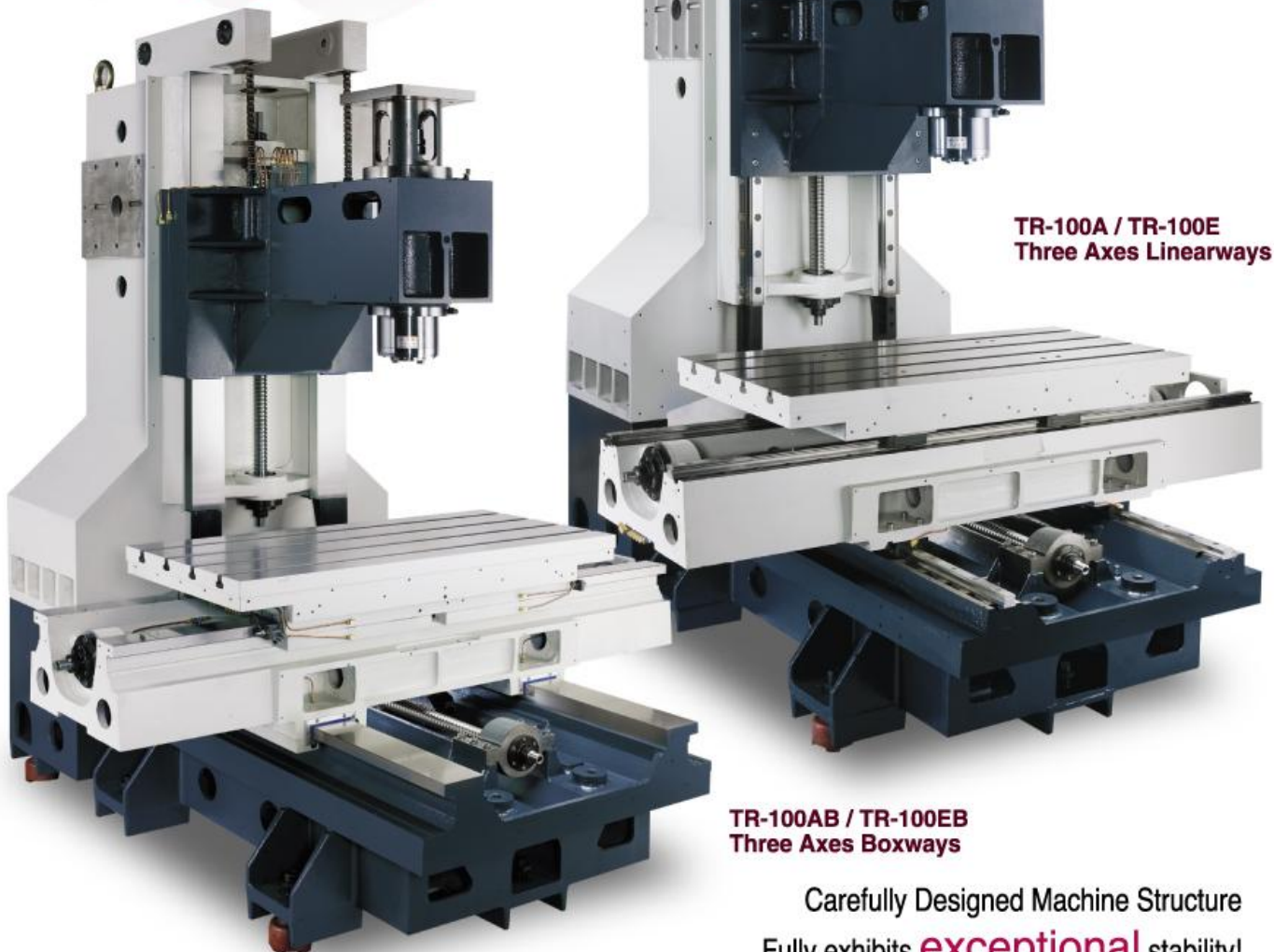
TR-100

Vertical Machining Center

A Perfect Combination of Precision and Efficiency!

- ◆ The main structural parts are manufactured from high quality Meehanite cast iron, then tempered to relieve internal stress. The structural parts are reinforced by ribs, ensuring superior rigidity of structure and maximum stability during high speed machining.
- ◆ The main structural parts are analyzed by Finite Element Analysis (FEM) and carefully designed to assure outstanding rigidity. Maximum stability is guaranteed during high speed machining.
- ◆ The box ways are processed with heat treatment for exceptional hardness, precisely ground and scraped. The surfaces are coated with Turcite-B for high resistance. All these processes ensure smooth travels on the box ways.
- ◆ Three axes employ class C3 precision ball screws for transmission. All ball screws are pretensioned to eliminate backlash problem, while ensuring high feed accuracy and stability.
- ◆ The motor bases and bearing housings on column and saddle are specially designed with one-piece construction. This outstanding feature not only enhances structural rigidity, but also upgrades stability and machining accuracy.
- ◆ The Y-shaped column construction effectively increases rigidity and stability of the machine.
- ◆ The three axes slideways are mounted with precision linear ways that ensure high smoothness of traveling. Also, ideal for high speed machining (for models TR-100A, TR-100E only).
- ◆ Coolant jets around spindle offers outstanding cooling effect on workpiece and cutting tool, effectively preventing workpiece deformation during machining.
- ◆ A laser unit is employed for inspecting positioning accuracy for calibration reference. Inspection is conducted according to Germany VD 3441 standards. In addition, a ball bar tester is also employed for inspecting static and dynamic circularity accuracy, servo error and geometric error.
- ◆ The machine is equipped with a pressure relief oil distributor incorporated with bronze tubes, ensuring the best lubrication performance and long service life.
- ◆ The TR series is available to use directly coupled or built-in type high speed spindle, making the machine ideal for high speed machining and precision machining.

Optimal Structure Design! Guaranteed Rigidity and Stability!



Carefully Designed Machine Structure
Fully exhibits **exceptional** stability!