

Model 5414

GET 5-AXIS POWER FROM YOUR 3-AXIS CNC.



New Model 5414

*Our most rigid spindle
and increased accuracy!*

*Convert nearly any 3-axis
machining center to full
5-axis capability. And at a
fraction of the cost of
conventional 5-axis machines!*

- Full 180° tilt capability
- Continuous rotary movement
- Portable, installed in minutes
- Rigid design provides years of precision and dependability
- Developed for full 5-Axis machining in all materials



TRI-TECH
PRECISION PRODUCTS, INC.
www.5-axis.com

Model 5414 5-Axis Programmable Head Attachment

Functionality

- Fully programmable 5-axis machining
- Tilt range : 180° ($\pm 90^{\circ}$)
- Rotary range: 360° continuous
- Adaptability: Almost any 3-axis CNC (VMC, HMC, Bridge, etc.)

Physical Specifications

- Weight: Approx. 150lbs. (plus motors & adapter)
- Height: Approx. 12"
- Width: 8.5" outside diam. on main housing

Drive Train

- M5414 uses customer's own spindle drive transferred through to tool at 1:1 ratio
- Recommended spindle speed: 100 - 5000 RPM (Options to 50,000)
- Servo motors drive Tilt and Rotary Axes at 90:1 ratio

Machining Capability

- Drills and mills any machinable material (Alum., Steel, Titanium...)
- Up to 3/4" cutter diameter

Tooling

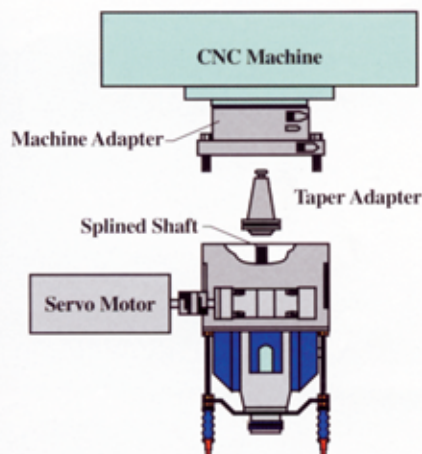
- Equipped with high precision HSK Tooling System
- HSK quick change tool holders available through Tri-Tech

Angular Accuracy

- Repeatability: Accurate within 15 arc seconds
- Positional accuracy: 36 arc seconds per axis
- Functional accuracy depends upon:
 - length of tool used
 - Accuracy of customer's own machine

Requirements

- 5-axis capable CNC control
- 5-axis post processor (Available through Tri-Tech)



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1553 Harmony Circle
Anaheim, CA 92807
(714) 970-1694 Fax: (714) 701-0280
www.5-axis.com