



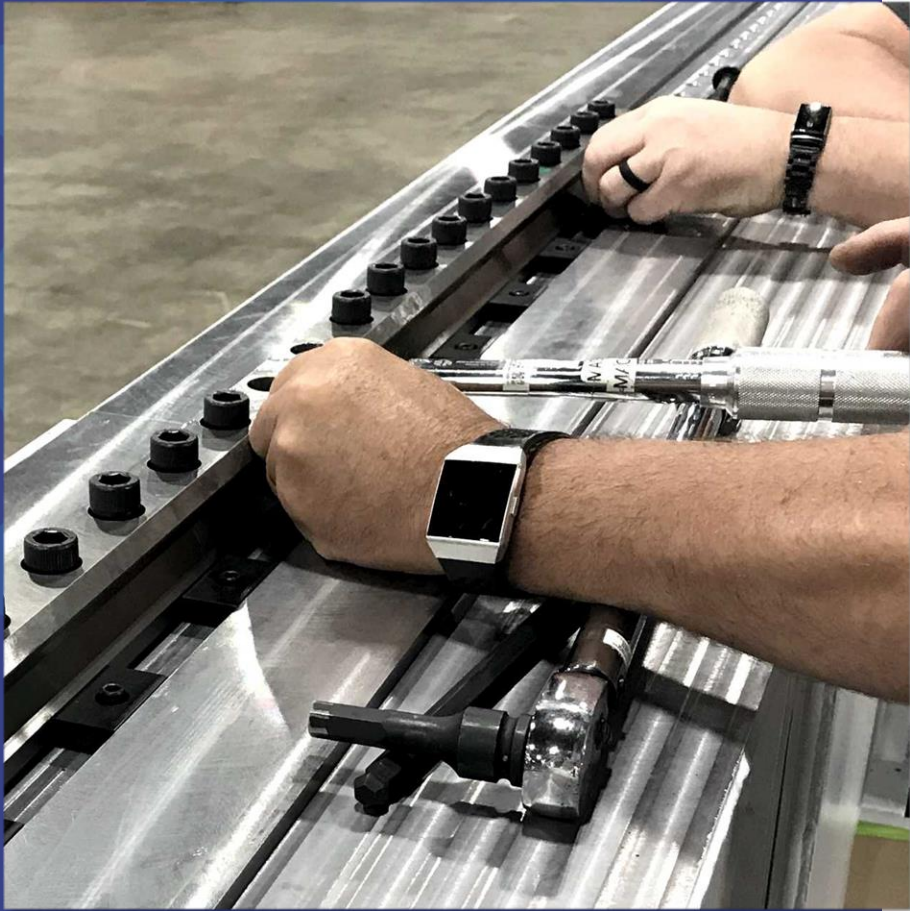
# HEXRAM

MACHINE MANUFACTURING, LLC

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**BIG. AMERICAN. MACHINE TOOLS.**

# WHO WE ARE



Hexram is an American builder of large-envelope, high-tech, heavy-duty, CNC Vertical Machining Centers based in Cincinnati, Ohio.

# IN-HOUSE CAPABLE



- Design & Engineering
- Welding & Blasting
- Large-Part Machining
- Painting & Finishing
- Assembly & Inspection
- Wiring & Programming



UPS

United Precision Services



**MAGNA**  
Machine Co.

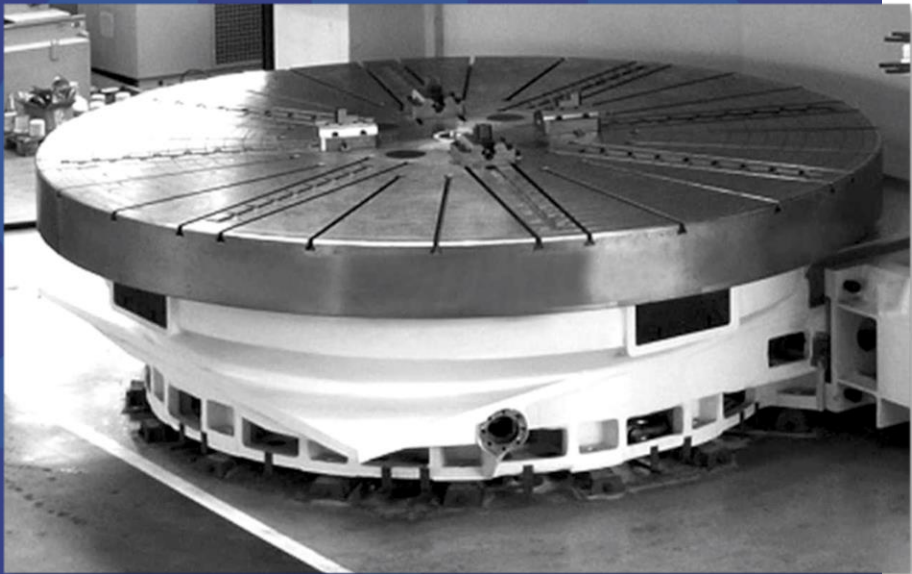
**upe**

**COBALT**  
TRANSPORTATION & STORAGE

# CO-LOCATED PARTNERS

- **United Precision Services** (Sales, Installation, & Service)
- **Magna Machine Company** (Fabrication & Machining)
- **United Precision Engineering** (Custom Fixturing, Specials)
- **Cobalt** (Transportation & Storage)

# MAIN PRODUCT LINES



- **MG Series** (Moving Gantry)
- **MP Series** (Moving Portal)
- **MT Series** (Moving Table)
- **MRT Series** (Moving Rotary Table)
- **FRT Series** (Fixed Rotary Table)

# MG SERIES CNC



## AXIS TRAVELS

	<u>MIN</u>	<u>MAX</u>
X	4'	40'+
Y	4'	12'
Z	2'	6'

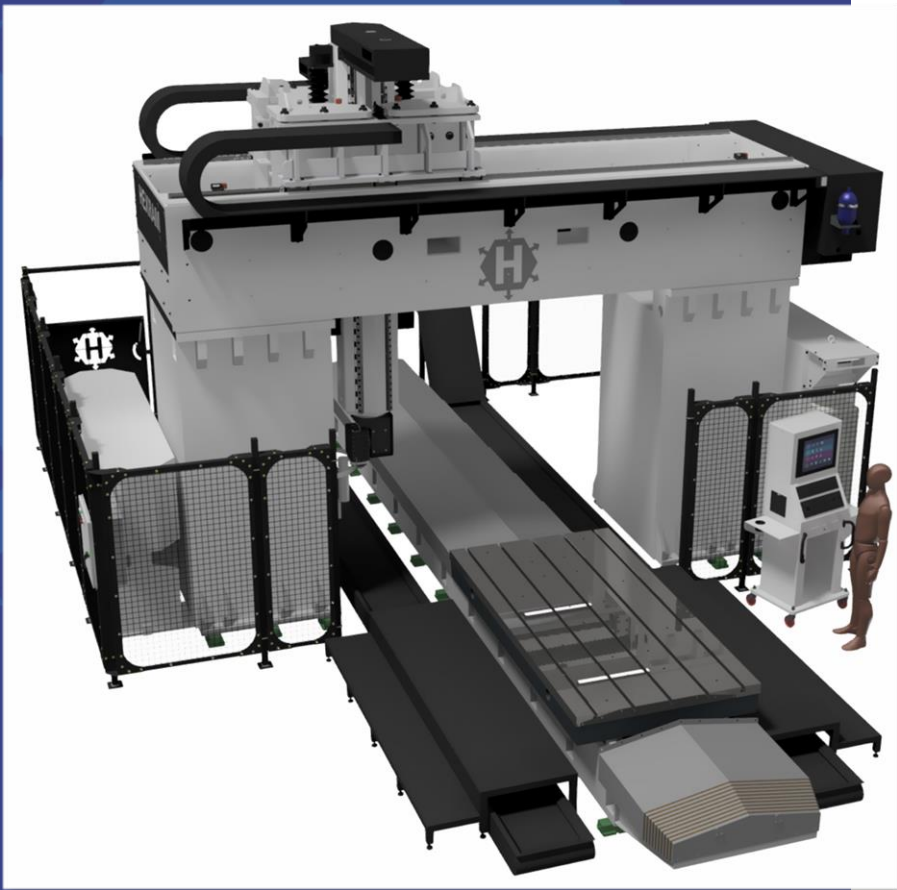
# MP SERIES CNC



## AXIS TRAVELS

	<u>MIN</u>	<u>MAX</u>
X	4'	40'+
Y	2'	12'
Z	2'	6'

# MT SERIES CNC



## AXIS TRAVELS

	<u>MIN</u>	<u>MAX</u>
X	4'	40'+
Y	4'	12'
Z	2'	6'

- The HEXRAM standard table casting size is 5' x 10', other table sizes are also available.
- A second table on an independent X-Axis is a standard option
- X Axis' can be synchronized for large-part machining
- A second table can be added to the same X-Axis for long part machining



# HEAD-SPINDLE CHOICE



- 3-Axis Spindles, both direct-drive and belt-driven available
- 3+2 Indexing Head, infinite position with direct-drive spindle (non-contouring)
- Single and Dual Yoke, direct-drive multi-axis heads (contouring / 5-Axis)
- Tooling choices include 50-Taper, HSK63A, and HSK100A, some with Big-Plus option
- RPM Ranges from 4,000 RPM to 20,000 RPM +

# FANUC CONTROL



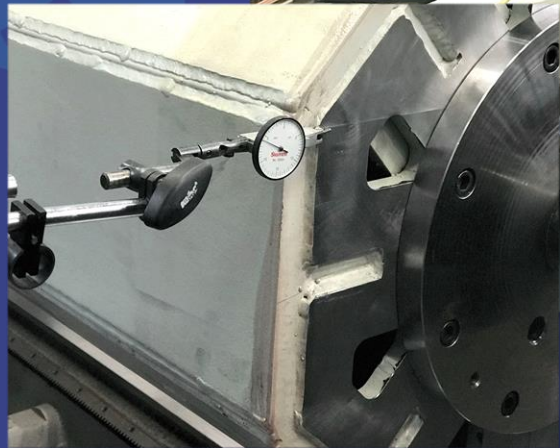
- FANUC 30i-Model B on all complex machines
- FANUC 0i-Model F+ on all 3 and 4 axis machines
- FANUC iHMI Pro 19-Inch Touchscreen & HMOP (Deluxe MPG)
- All-FANUC Servo and Spindle Drives and Amplifiers
- I/O Link & Remote I/O on entire machine – cables only, with quick-connect; no point-to-point field wiring

# HIGH-TECH ADVANTAGE



- Proprietary, precision drive systems; including precision-ground, pre-loaded, rotary-nut ballscrews
- Box-In-Box (dual-beam gantry) on all 5-Axis machines with dual-servo, Eco-Lift technology on the Z-Axis
- Rigid, proprietary Ram & Carriage Systems for robust and accurate Y-Travel
- Preloaded, precision cross-roller guides with rail-lock on all axis'
- Housed, pressurized, absolute encoders with 1-micron resolution, 5-micron accuracy class

# BUILT TO LAST



- Heavy weldments and proprietary castings, all thermally stress-relieved prior to blast
- Marine-grade zinc-rich under coating with mastic seal coat prior to machining
- Multi-step, precision machining processes and custom fixturing yield great results
- High-solids two-part urethane top coating after machining
- Assembly and wiring following best practices, and using the best hardware



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11185 SOUTHLAND ROAD, CINCINNATI, OH, 45240