

Leading metal cutting solutions, specific to your needs.



CONCEPT™
Advanced Manufacturing Solutions

We're here to help you take manufacturing to the next level.

Whether you need a new piece of equipment, want to expand capacity, or solve staffing challenges, Concept has the answer.

With more than 45 years in business, we're the Midwest's leading source for advanced manufacturing solutions – leading the industry with our knowledge and comprehensive offerings toward a future that's increasingly automated.

Ready to take your operation to the next level?

Milling Solutions

High Precision Machine Tools

Kitamura HMC's

- 330mm - 1,400mm travel
- Linear & box ways - 2,362 IPM
- Full 4th axis rotary table
- Expandable ATC option pallet pool



Kitamura VMC's

- 762mm - 1,530mm travel
- Linear & box ways - high speed rapids
- Both C-frame and large travel bridge style options
- Available with integrated pallet changer



Kitamura 5-axis

- Ultra-high precision simultaneous 5-axis machining
- Positioning accuracy: $\pm 0.000079''$, Repeatability: $\pm 0.000039''$
- Compact design



SMEC VMC'S

- Heavy-duty linear or box way construction
- 40/50 taper spindles
- Direct drive or gear head
- 24 & 30 tool magazine capacity
- Fanuc controls



Chiron VMC's: 3 to 5-axis and Mill-turn

- 3 to 5-axis
- Available with single or dual spindles
- Multi-axis workchanger
- Mill-turn platform available
- Precision+ models available with linear motors
- Highly productive and reliable



5-axis shown with dual spindles



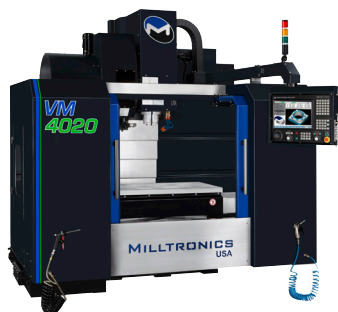
Mill-turn platform



Shown with workchanger

Milltronics Milling

- Conversational Control
- 40 & 50 Taper VMC
- Models with open Bed CNC Mills
- Bridge VMC's



KIRA America VMC's & HMC's

- 10,000 - 24,000 RPM spindles
- 30 & 40 taper high speed milling
- Twin spindle vertical & horizontal pallet changers
- Fanuc controls



Turning Solutions

High Precision Machine Tools

INDEX CNC Turning

- High-volume, high-production turning:
- Turn-mill centers (B-axis)
- Turn-grind centers
- Multi-turret lathes
- Multi-spindle solutions (6 or 8)



INDEX

Star CNC Swiss Type Lathes

- Wide variety of models available
- 7mm - 51mm
- Sub-spindle with fixed and live tools
- Full B-axis models
- Slide and turret configurations
- Japanese precision



SMEC Horizontal & Vertical Lathes

- High accuracy, high rigidity
- Box way & linear guide options
- Y-Axis & sub-spindle available



SMEC
SMEC AMERICA CORP

Milltronics CNC Turning

- Conversational Control
- Live tooling option
- Flat and open style frame
- Slant bed lathes



Fuji CNC Turning

- High production
- Automation ready
- Fanuc CNC controls
- Available with robotic loading twin spindle lathes



TAKAMAZ Lathes

- Auto loading, box way, precision CNC lathes
- Shaft loading, twin spindle, CNC lathes up to 27" length capacity
- Twin turret, twin spindle, barfed CNC lathes



Robotics Automation



FANUC

- Automation cells
- Turnkey applications
- Workholding fixtures
- Custom solutions
- Complete solutions
- Load assist



HALTER

- Halter Load Assistant
- 3R Work Pal & Work Partner
- Erowa Robot Compact & Robot Easy
- RFID Capable

Grinding and EDM Solutions

UNITED GRINDING North America

High-precision grinding

- Cylindrical grinding
- Tool grinding & measuring
- Surface & profile grinding



- Manual surface grinders up to 16x32"
- Japanese quality and precision



CHEVALIER

Manual, semi-automatic and automatic surface grinders.



EDM DrillMate

- Manual EDM drills
- CNC EDM drills

Service: The most important concept of all.

We're committed to supporting you with the service you expect — so you can minimize downtime and maximize productivity on your machine tools and metrology equipment.

- High-priority responsiveness to unplanned repairs
- Preventive maintenance programs
- Calibration, including laser and ballbar
- Applications support and training, pre- and post-sale
- Measurement and turnkey programming services



Training: Partnering for your success.

Concept can help and conducts regular training classes for small groups in our world class training facility, away from the distractions of your shop floor, but hands on and using the same software, equipment and terminology you use at your facility. For more details and a list of training classes, visit our website.

Proud to serve the upper Midwest

Concept Minnesota: 15625 Medina Rd, Minneapolis, MN 55447, sales@conceptmachine.com