



MACHINERY



TOOLING



AUTOMATION



# CUTTING TOOLS



## WORLD LEADER IN CUTTING TOOLS

Threading-Drilling-Milling-Indexable

- ➔ From Light Production to High Production
- ➔ Easy or Difficult to Machine Materials
- ➔ A Cutting Tool for Every Application



## LEADING EDGE PERFORMANCE

Extensive Line-up of Turning, Milling, and Drilling Products

- ➔ Various Grades Various Dimensions and Chip Beakers
- ➔ Fully Supporting the Machining Needs of Customers in a Wide Variety of Industries



## AMERICA'S MOST POPULAR — FULL LINE CUTTING TOOLS

Hole-making and Finishing Tooling Systems

- ➔ Drilling
- ➔ Boring
- ➔ Reaming
- ➔ Turning
- ➔ Tapping
- ➔ Custom Tooling



## HIGH PERFORMANCE CUTTING TOOLS

- ➔ Facing Tools
- ➔ Heads
- ➔ Grooving Tools
- ➔ Tool Inserts
- ➔ Milling Cutters
- ➔ Indexable
- ➔ Solid Carbide
- ➔ Drilling
- ➔ Reaming
- ➔ Milling
- ➔ Engraving



## LEADERS IN HOLE MAKING TECHNOLOGY

- ➔ Hole-making and finishing systems
- ➔ Drilling
- ➔ Boring
- ➔ Reaming
- ➔ Threading
- ➔ Burnishing
- ➔ Custom Tooling



## CRAZY MIKRON TOOL QUALITY

- ➔ Smallest Flexible carbide drill with integrated cooling
- ➔ Flexibility deep hole drilling



## UNIMAX CARBIDE END MILLS

- ➔ Excellent Performance in High Speed Milling
- ➔ Extensive Product Line Starts With Micro Diameters



## HIGH QUALITY COST EFFECTIVE TAPPING TOOLS FOR EVERY MATERIAL

**EXCLUSIVELY AVAILABLE**



## INNOVATE CUSTOM TOOLING SOLUTIONS

- ➔ Reaming
- ➔ Fine boring
- ➔ Drilling
- ➔ Boring
- ➔ Countersinking
- ➔ Milling
- ➔ Turning
- ➔ Clamping
- ➔ Actuating
- ➔ Setting
- ➔ Measuring
- ➔ Dispensing
- ➔ NC and CNC Multi Heads



## EXPANDING YOUR TOOLING POSSIBILITIES

- ➔ Custom Mill & Lathe Carbide Tools
- ➔ Dovetail Cutters
- ➔ Engraving



### YAMAZEN INC.

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800-228-2969

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### NATIONAL SUPPORT AND TECHNICAL CENTERS:

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# ROTARY TABLES



**brother**

**SPEEDIO T-200A Rotary Table**  
**ENHANCE YOUR SPEEDIO**  
**CAPABILITIES**



**FAST AND RELIABLE PERFORMANCE**



Roller Gear Cam Mechanism

**YUKIWA**

**BROTHER SPEEDIO**  
**COMPATIBLE**  
**ROTARY TABLES**

Multi-Axis Tables  
 Production Performance



**DIRECT DRIVE**  
**ROTARY TABLE**



**CNC TILTING**  
**ROTARY TABLE**

**SANKYO**  
 AUTOMATION

**ROLLER GEAR**  
**DRIVE ROTARY**  
**TABLES**



**RT SERIES**

Open-End Design, Compact, High-Speed, exceptional Position Accuracy, and Repeatability. Good for Complex Shapes.

**KP**  
 KOMA PRECISION  
 THE KEY TO PERFORMANCE

**TWA AND**  
**TBS SERIES**

High Speed Tilting Ball Drive  
 Rotary Table



**LNI**  
 LYNDIX-NIKKEN

**INDUSTRY LEADING**  
**MULTI-AXIS TABLES**  
**PRODUCTION READY**

**brother** SPEEDIO compatible Rotary Tables



**5AX-TILT TABLES**

**MULTI-SPINDLE**

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# TOOL HOLDING



## HIGH PRODUCTIVITY ADVANCE TOOLHOLDERS



- ➔ Precision Tool Holders
- ➔ High Precision SK Collet Holder
- ➔ Taper Plus Holder
- ➔ End Mill Holders
- ➔ High-Performance Milling Chuck
- ➔ Most Accurate and Precision Collet



## AMERICA'S MOST POPULAR FULL LINE TOOLING MANUFACTURER



- ➔ Reaming
- ➔ Fine boring
- ➔ Drilling
- ➔ Boring
- ➔ Countersinking
- ➔ Milling
- ➔ Turning
- ➔ Clamping
- ➔ Actuating



## COST EFFECTIVE ER COLLET HOLDERS - MEVIUS SERIES



- ➔ Superior Clamping and Gripping Force
- ➔ High Accuracy  $4d+0.0002$ !
- ➔ Rust Proof Black Coating



## SLIMLINE SHRINK-FIT HOLDER PROVIDES THE PERFECT SOLUTION



- ➔ SLIMLINE Shrink-Fit Holders
- ➔ No Over Heating
- ➔ Strong Clamping Force
- ➔ High Rigidity and Superior Accuracy!



## HIGH PERFORMANCE TOOL HOLDERS ORIGINAL "BIG-PLUS" TECHNOLOGY



- ➔ Increased Rigidity
- ➔ Greater Accuracy
- ➔ Reduced Runout
- ➔ Longer Tool Life



## WORLD LEADERS IN:



- ➔ Innovative Ultra-Precision Tool Holding
- ➔ Shrink Tooling Systems Tool Setting
- ➔ Balancing Systems
- ➔ Performance Cutting Tools



## SUPERIOR TOOL CLAMPING COLLET SYSTEMS

for milling / drilling / tapping / reaming / finishing



## INNOVATIVE HYDRAULIC EXPANSION TECHNOLOGY



- ➔ Highest performing hydraulic tool holder
- ➔ Excellent vibration damping
- ➔ Direct clamping



## TURNING HOLDERS



- ➔ Static Precision Toolholders
- ➔ Quick Change System
- ➔ Broaching Unit for Keyways and Splines
- ➔ Gera Hobbing Unit
- ➔ Power Skiving Unit



## PRECISION LIVE AND STATIC TOOLING FOR TURNING



- ➔ Adj. Angle tool holders
- ➔ Boring Bar Holders
- ➔ Broaching/ Slotting
- ➔ Reduced Runout
- ➔ Gear Hobbers
- ➔ Driven Tool Holders

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# ENVIRONMENTAL MANAGEMENT & COOLANT SYSTEMS:



## MIST COLLECTORS

- ➔ High Performance
- ➔ Filter and Filter-less Model
- ➔ Designed to Suit Many Needs



## CENTRAL SYSTEM MIST COLLECTORS

- ➔ 3 in 1 Solutions for Mist Applications
- ➔ Configurations for Ducted Central Systems
- ➔ UL-Approved Electrical components
- ➔ Quiet Operation



## HIGH PRESSURE CTS PUMP

Filter Pump Kit Module for **brother** SPEEDIO Series



- ➔ High Pressure CTS Systems
- ➔ Bar Feeders
- ➔ High Pressure
- ➔ Mist Collectors
- ➔ Chip Conveyors
- ➔ Coolant Management



## INDUSTRY LEADING COOLANT AND CHIP MANAGEMENT

- ➔ Chip Conveyors
- ➔ Advanced Filtration Systems
- ➔ Chip Processing and Removal Solutions



## INNOVATIVE DESIGN

- ➔ Mist and Smoke Collection
- ➔ High-Pressure Coolant
- ➔ Fluid Chillers
- ➔ Chip & Sludge Removal



## HIGH PRESSURE CTS



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brother  
Matsura

Nidec  
TAKISAWA

# MEASURING EQUIPMENT



Mitutoyo



## WORLD LEADER IN METROLOGY

Innovative Precision Measurement

Solutions: CMMs, Form, Roundness, Vision and Surface, Inspection Calibration Services

HEXAGON



## INDUSTRY LEADING TECHNOLOGY CMMs

- ➔ Laser Tracker Systems
- ➔ 3d Laser Scanners
- ➔ Portable Measuring Arms
- ➔ Machine Tool Measurement
- ➔ Profile Surface Measurement

LNE  
LYNDEX-NIKKEN



## LN ELBO CONTROLLI

World Class Vision Tool Presetters

- ➔ Flexible Features
- ➔ Granite Construction
- ➔ Powerful Software

BIG  
BIG DAISHOWA



## SPERONI VISION TOOL PRESETTERS

World Class Precision and Quality

Large range of models available

HAIMER  
Quality Wins.



## MODULAR BALANCING TECHNOLOGY

- ➔ Tool holder Dynamic Balancing Machine
- ➔ Precision Balancing for Enhanced Performance

KP  
KOMA PRECISION  
THE KEY TO PERFORMANCE



## KOMA PRECISION TOOL PRESETTERS

- ➔ Vision Accuracy and Performance
- ➔ Flexible Configurations Available
- ➔ Large Range of Models
- ➔ Easy to Use Powerful Software

RENISHAW  
apply innovation™



## INDUSTRY LEADING TECHNOLOGY

Spindle Probes  
Tool Setters Contact / Contact-less  
Measuring Solutions

BLUM



## GERMAN PRECISION TECHNOLOGY

Spindle Probes

Tool Setters Contact / Contact-less  
Measuring Solutions



## PRODUCTION OD GRINDING



- ➔ In Process Gages
- ➔ Tool Setting
- ➔ Length Measurement Systems
- ➔ Gap Elimination

SBS  
DYNAMIC BALANCE SYSTEM

## PRODUCTION OD GRINDING

➔ Dynamic Wheel  
Balancing Systems



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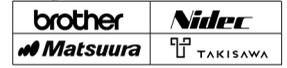
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# WORKHOLDING



## PRODUCTION READY MADE IN USA



- ➔ Low Profile, Bodies Built From Hardened Steel
  - ➔ Jaws feature serrations and dovetail grooves
  - ➔ Various Sizes and Configurations
- Tombstone Packages Available*



## PRODUCTION READY MADE IN THE USA



- ➔ Multi-vise Fixture Plates locate on top of the
- ➔ PAWS Hydraulic Base Unit
- ➔ Ideal for Vertical CNC production milling applications or pallet switching
- ➔ Designed for quick changeovers



## MADE IN USA



- ➔ Workholding for Milling
- ➔ Dual Station and Self Centering Vises
- ➔ Modular Clamp Systems
- ➔ Quick-loc Clamping Systems
- ➔ Ball Loc Clamping Systems
- ➔ Zero Point Clamping Systems



## PRODUCTION READY MADE IN THE USA



- ➔ Single and Dual Station CNC Machines Vises
- ➔ Machinable Quick-Change
- ➔ Soft Jaws
- ➔ Quick-Change Fixturing Solutions



## MADE IN USA



- ➔ Quick-Grip CNC Collect Chucks
- ➔ Expanding Arbors
- ➔ Collet Fixtures



## HIGH PRECISION MADE IN THE USA



- ➔ Precision Air Chucks
- ➔ Balancing Chucks
- ➔ Precision Collet Chucks
- ➔ Diaphragm Chucks
- ➔ Special Application Workholding



## PRODUCTION READY



- ➔ Enhanced Gripping Accuracy
- ➔ Next Generation Design
- ➔ Large Range of Workholding Solutions



## LN & HOWA POWER CHUCKS FOR TURNING



- ➔ 4" to 15" Manual and Power Self Centering or Independent Jaw Draw Back
- ➔ 2 to 4 Jaw



## GERMAN PRECISION



- ➔ 5th Axis Vises
- ➔ Centering Vises for Blanks, Contours and Finishes Pieces
- ➔ Quick Change Modular Workholding Solutions



## MADE IN USA, MADE FOR MILLING



- ➔ Tombstone
- ➔ Angle Plates
- ➔ Modular Vises
- ➔ Cast Sections
- ➔ Customizable Workholding & Clamping Solutions

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