

























→ Low Profile, Bodies Built From Hardened Steel

→ Jaws feature serrations and dovetail grooves

→ Dual Station and Self Centering Vises

→ Various Sizes and Configurations







	brother
N	<i>₩ Matsuura</i>

brother	Nidec
₩ Matsuura	T TAKISAW

## **CUTTING TOOLS**



and Drilling Products

and Chip Beakers

**LEADING EDGE PERFORMANCE** 

Extensive Line-up of Turning, Milling,

→ Various Grades Various Dimensions

⇒ Fully Supporting the Machining Needs of

**HIGH PERFORMANCE CUTTING TOOLS** 

Customers in a Wide Variety of Industries

→ Drilling

→ Milling

**CRAZY MIKRON TOOL QUALITY** 

with integrated cooling

→ Flexibility deep hole drilling

→ Smallest Flexible carbide drill

→ Reaming

→ Engraving



## **TOOL HOLDING**

## WORKHOLDING

5"AXIS PRODUCTION READY

MADE IN USA

Tombstone Packages Available

**MADE IN USA** 

→ Worlkholding for Milling

→ Modular Clamp Systems

→ Quick-loc Clamping Systems

→ Zero Point Clamping Systems

→ Ball Loc Clamping Systems

SCHUNK

### **SUPERIOR CLAMPING AND GRIPPING** ⇒ Quick-change pallet system

### → Zero point precision



→ Maximum rigidity

## → Zero maintenance

## **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

→ Single and Dual Station CNC Machines Vises

### → Designed for quick changeovers

PRODUCTION READY

→ Machinable Quick-Change

→ Quick-Change Fixturing Solutions

**HIGH PRECISION** 

MADE IN THE USA

→ Balancing Chucks

→ Diaphragm Chucks

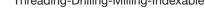
→ Precision Air Chucks

→ Precision Collet Chucks

MADE IN THE USA

Soft Jaws

### **WORLD LEADER IN CUTTING TOOLS**



- ⇒ Easy or Difficult to Machine Materials
- → A Cutting Tool for Every Application

## KYOCERa









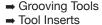


In MIKRON TOOL









→ Heads



→ Facing Tools

→ Milling Cutters

### ⇒ Solid Carbine /V/ NT TOOL



(BIG)

**REGO-FIX** 

VTO

## → Superior Clamping and Gripping Force

**HIGH PERFORMANCE TOOL HOLDERS** 

**ORIGINAL "BIG-PLUS" TECHNOLOGY** 

→ Increased Rigidity → Reduced Runout

⇒ Greater Accuracy ⇒ Longer Tool Life

**SUPERIOR TOOL** 

**COLLET SYSTEMS** 

→ Broaching Unit for Keyways and Splines

for milling / drilling / tapping / reaming / finishing

**CLAMPING** 

**TURNING HOLDERS** 

→ Quick Change System

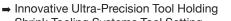
→ Gera Hobbing Unit

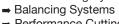
→ Power Skiving Unit

→ Static Precision Toolholders

- → High Accuracy 4d+0.0002"!
- → Rust Proof Black Coating

KENNAMETAL









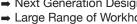
- ⇒ Excellent vibration damping

## **lita**gawa

Jergens

### PRODUCTION READY





**GERMAN PRECISION** 

→ Centering Vises for Blanks,

Contours and Finishes Pieces

→ Quick Change Modular Workholding

→ 5th Axis Vises

Solutions

## → Large Range of Workholding Solutions

⇒ Quick-Grip CNC

Collect Chukcs

→ Expanding Arbors



**NORTHFIELD** 

## **CHUCKS FOR TURNING**



⇒ 4" to 15" Manual and Power Self Centering or Independent Jaw Draw Back

→ Special Application Workholding

→ 2 to 4 Jaw

**LN & HOWA POWER** 



**→** Tombstone

→ Angle Plates

MADE IN USA.

Clamping Solutions

→ Customizable

## Threading-Drilling-Milling-Indexable

- → From Light Production to High Production

## **AMERICA'S MOST POPULAR — FULL**

Hole-making and Finishing Tooling Systems

- → Drillina → Boring
- → Reaming

**LINE CUTTING TOOLS** 

- → Tapping → Custom Tooling

→ Reaming

→ Threading

→ Burnishing

→ Custom Tooling

→ Turning



- → Hole-making and finishing systems
- → Drilling
- → Boring

## UNION TOOL CO.

## **UNIMAX CARBIDE END MILLS**

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



## → Reaming → Fine boring → Drilling

- ⇒ Boring ⇒ Countersinking ⇒ Milling → Turning → Clamping → Actuating Setting → Measuring → Dispensing
- → NC and CNC Multi Heads

## **TOOLING SOLUTIONS**

CUTTING TOOLS

### **EXPANDING YOUR TOOLING POSSIBILITIES**

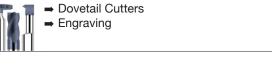
EXCLUSIVELY AVAILABLE

→ Custom Mill & Lathe Carbide Tools

**HIGH QUALITY COST** 

**FOR EVERY MATERIAL** 

**EFFECTIVE TAPPING TOOLS** 



## HIGH PRODUCTIVITY

### **ADVANCE TOOLHOLDERS** → Precision Tool

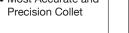
- Holders → High Precision
- SK Collet Holder → Taper Plus Holder
- Milling Chuck

### → Most Accurate and Precision Collet

→ End Mill Holders

→ High-Performance







## **SLIMELINE SHRINK-FIT HOLDER PROVIDES THE PERFECT SOLUTION**

**AMERICA'S MOST** 

→ Reaming

→ Drilling

→ Boring

⇒ Fine boring

→ Countersinking

**POPULAR FULL LINE** 

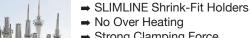
TOOLING MANUFACTURER

→ Milling

→ Turning

→ Clamping

→ Actuating

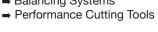


- → Strong Clamping Force
- → High Rigidity and Superior Accuracy!



## **WORLD LEADERS IN:**

- → Shrink Tooling Systems Tool Setting





## → Highest performing hydraulic tool holder

- → Direct clamping

### **PRECISION LIVE AND** STATIC TOOLING FOR TURNING



- → Gear Hobbers





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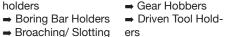
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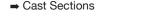
### → Adj. Angle tool → Reduced Runout



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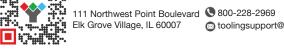












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**AMANO** 

Environmenta











**M**itutoyo



















## **ENVIRONMENTAL MANAGEMENT** & COOLANT SYSTEMS:



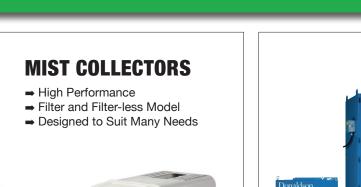
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## **MEASURING EQUIPMENT**

## **ROTARY TABLES**

**CAPABILITIES** 









## **CENTRAL SYSTEM MIST COLLECTORS**

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



### **LN ELBO CONTROLLI**

**WORLD LEADER IN METROLOGY** Innovative Precision Measurement

Solutions: CMMs, Form, Roundness,

Vision and Surface, Inspection

Calibration Services

World Class Vision Tool Presetters

- → Flexible Features
- → Granite Construction

MODULAR BALANCING

→ Powerful Software

**TECHNOLOGY** 

→ Tool holder Dynamic

Balancing Machine

→ Precision Balancing for

Enhanced Performance



### **SPERONI VISION TOOL PRESETTERS**

**KOMA PRECISION** 

**TOOL PRESETTERS** 

→ Large Range of Models

**INDUSTRY LEADING** 

**TECHNOLOGY CMMs** 

→ Laser Tracker Systems

→ Portable Measuring Arms

→ Machine Tool Measurement

→ Profile Surface Measurement

→ 3d Laser Scanners

World Class Precision and Quality

Large range of models available

→ Vision Accuracy and Performance

→ Flexible Configurations Available

→ Easy to Use Powerful Software



SPEEDIO T-200A Rotary Table

**ENHANCE YOUR SPEEDIO** 



Multi-Axis Tables **Production Performance** 

**ROTARY TABLES** 

COMPATIBLE







**CNC TILTING ROTARY TABLE** 





**HIGH PRESSURE CTS PUMP** Filter Pump Kit Module for **brother SPEEDIO** Series



## AND CHIP MANAGEMENT

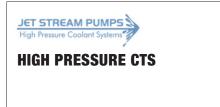
- → Chip Processing and Removal Solutions





### **INNOVATIVE DESIGN**

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





# → High Pressure CTS Systems → Bar Feeders

# RENISHAW.

### **INDUSTRY LEADING TECHNOLOGY**

Spindle Probes Tool Setters Contact / Contact-less





MARPOSS

## → In Process Gages

- → Tool Setting → Length Measurement
- Systems → Gap Elimination



KOMA PRECISION

### **GERMAN PRECISION TECHNOLOGY** Spindle Probes

Tool Setters Contact / Contact-less Measuring Solutions







◆ ◆ ◆ NATIONAL SUPPORT & TECH CENTERS:



**ROLLER GEAR DRIVE ROTARY TABLES** 



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



High Speed Tilting Ball Drive Rotary Table





**MULTI-AXIS TABLES** 

**PRODUCTION READY** 

## **brother** SPEEDIO compatible Rotary Tables







**5AX-TILT TABLES MULTI-SPINDLE** 





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