

# Guide To The Booths

**Bourn & Koch Machine Tool Co.**  
(Booth B-7056)

2500 Kishwaukee Street  
Rockford, IL 61104  
(815) 965-4013  
Fax (815) 965-0019

*bournkoch@worldnet.att.net*  
*www.bourn-koch.com*

Bourn & Koch has manufactured precision machine tool products since 1975. Their Rockford, IL plant offers 130,000 square feet of climate controlled working space and a staff of highly skilled engineers and technicians.

Bourn & Koch offers a complete line of new equipment that includes gear hobbing machines, gear grinding machines, rotary transfer machines, extrusion milling machines, specialized machining centers, machining units and speciality machine tools designed around a customer's needs.

**Colonial Saw Company, Inc.**  
(Booth B-6465)  
122 Pembroke St.  
P.O. Box A

Kingston, MA 02364  
(781) 585-4364  
Fax: (781) 585-9375  
*sales@csaw.com*  
*www.csaw.com*

Colonial Saw will feature its line of cutting tool sharpening machines, including their 4-Axis NC gear hob sharpener, flat surface grinders, and cold saw sharpening machines.

**Colonial Tool Group, Inc.**  
(Booth C-5635)  
1691 Walker Road  
Windsor, Ontario N8W 3P1  
Canada  
(519) 253-2461  
Fax: (519) 253-5911  
*www.colonialtool.com*

Colonial Tool Group will be demonstrating its complete product line, including rolling racks for involute splines, helical splines, tapered splines and threads; spindles; broaches; and vertical and horizontal broaching machines.

**D.C. Morrison Company**  
(Booth C-5650)  
201 Johnson Street  
P.O. Box 586  
Covington, KY 41011  
(859) 581-7511  
Fax: (859) 581-9642  
*RVBBJ@juno.com*  
*www.dcmorrison.com*

Visitors will see the latest Morrison key-seaters, Schauer speed lathes and Burke/Morrison milling machines.

**Emuge Corporation**  
(Booth E-2844)  
104 Otis Street  
Northborough, MA 01532  
(800) 323-3013  
Fax: (800) 393-1302  
*emuge@emuge.com*  
*www.emuge.com*

Emuge's full line of precision workholding devices will be on display, including taps, tap holders & adapters, high speed milling products, thread milling products, and precision clamping products.



The Gear Generation pavilion is one of 10 "shows within the show".



Chicago's McCormick Place.

Fellows Corporation  
 (Booth B-8531)  
 P.O. Box 2001  
 Springfield, VT 05156-2001  
 (802) 886-8333  
 Fax: (802) 886-2700

This booth is shared with Bridgeport Machines, Inc., Bryant Grinder Corporation, Harig Products Division, J&L Metrology and Jones & Lamson Machine. Visitors will be able to see the

complete line of Fellows gear manufacturing and testing machines, cutting tools and services.

Gleason Corporation  
 (Booth B-6931)  
 The Gleason Works  
 1000 University Avenue  
 P.O. Box 22970  
 Rochester, NY 14692-2970  
 (716) 473-1000

Fax: (716) 461-4348  
 sales@gleason.com  
 www.gleason.com

Gleason's giant video wall will be the center of attention this year. Visitors will be able to see the entire Gleason product range in action on the giant screens. Even more importantly, visitors who stop by to see the show will be able to take the experience home with them, because Gleason will be handing out the presentation on CD-ROM as well. In addition, Gleason will bring a number of machine tools for live demonstrations. These include the Gleason 175 HC Power Dry Cutting CNC Bevel machine with robot; the Gleason Pfauter GP200S CNC Gear Shaper; the Gleason Pfauter GP130 CNC Hobbing Machine with autoloader; the Gleason Hurth ZS130T Power Honing Machine with automation; and the Gleason Pfauter P60 CNC Horizontal Hobbing Machine with automation. Visitors will also have the opportunity to see and ask about the comprehensive range of Gleason cylindrical and bevel cutting tools.

Gold Star Coatings (Booth E-2701)  
 P.O. Box 376  
 Farmington, MI 48332-0376  
 (248) 474-8200  
 Fax: (248) 474-9518  
 www.goldstarcoatings.com

This division of Star Cutter Co. will feature its line of wear resistant thin-film coatings for cutting tools and wear parts.

Great Taiwan Gear Ltd./Luren  
 (Booth B-7139)  
 108 Collier Lane  
 Greer, SC 29650  
 (864) 322-1266  
 Fax: (864) 609-5268

Visitors will be able to learn about Great Taiwan Gear's gear manufacturing capabilities, including fine- and coarse-pitch spur, helical, bevel, spiral bevel and worm gears, splined shafts and speed reducers. Also on hand will be a selection of gear cutting tools, including hobs and shaper cutters.

*If you're making parts like these, and want to make them twice as fast or at half the cost*

*we'll show you how at:*  
**leistrizcorp.com**

**Leistriz**  
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 (201) 934-8262

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CIRCLE 199

**H.B. Carbide (Booth E-2700)**  
 4210 Doyle Drive  
 P.O. Box 538  
 Lewiston, MI 49756-0538  
 (517) 786-4223  
 Fax: (517) 786-4494  
 www.hbcarbide.com

This division of Star Cutter Co. will feature its line of carbide preforms, including fluted preforms, special rod blanks, special extruded shapes, cold heading dies and bushings, round rods, flat blanks, gundrill blanks and special tooling.

**Holroyd (Booth B-6917)**  
 Division of Renold Precision Technologies  
 Harbour Lane North, Milnrow  
 Rochdale OL16 3LQ  
 United Kingdom  
 (44) 1706-526590  
 Fax: (44) 1706-353350  
 paul.hannah@holroyd.com  
 www.holroyd.com

Holroyd will show its line of thread grinding and thread milling machines; worm gears; compressor rotors; pump screws; vacuum screws; cylindrical and surface grinding machines; and machining centers. This booth is shared with Jones & Shipman and Edgetek.

**Kapp Tech (Booth B-6950)**  
 2870 Wilderness Place  
 Boulder, CO 80301  
 (303) 938-1130  
 Fax: (303) 447-1131  
 info@kapp-usa.com  
 www.kapp-usa.com

This booth features Kapp GmbH, Niles GmbH and Kapp Sales and Service. Visitors will be able to see the Kapp KX1 Gear Center with automation, the Niles ZP12 Profile Grinder, the VAC65 Coroning system, the VAS55P Dressable Grinding system, GA5 External Grinders and Niles Internal Grinders.

**Klingelberg Söhne GmbH—**  
 See Sigma Pool  
**Koepfer America**  
 (Booth B-6938)  
 635 Schneider Drive  
 Elgin, IL 60177

(847) 931-4121  
 Fax: (847) 931-4192  
 sales@koepferamerica.com  
 www.koepferamerica.com

Koepfer will feature its line of precision gear hobbing machines, cutting tools and services.

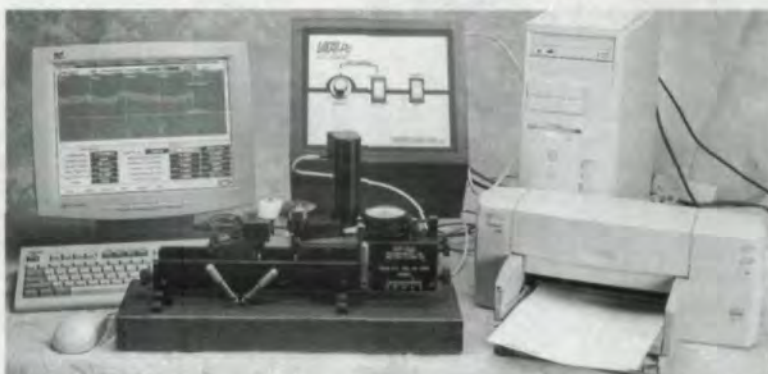
**Laser Machining, Inc. (Booth B-6748)**  
 500 Laser Drive  
 Somerset, WI 54025

(715) 247-3285  
 Fax: (715) 247-5650  
 tbenson@lasermachining.com  
 www.lasermachining.com

Laser Machining, Inc. will feature a display of deep penetration laser weldings to 18 mm, high speed selective laser heat treating and an array of special applications, including cutting utilizing both CO<sub>2</sub> and Nd:YAG lasers.

LMI's technical staff will be on hand to discuss the company's laser process

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Fifty years of VARI-ROLL applications provide:

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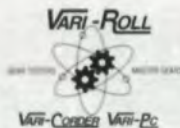
When coupled with the VARI-PC Composite Gear Analysis System will provide:

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- Improved Accuracy
- Historical Record Keeping
- Serialization of Parts
- Interface to SPC programs

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# VARI-ROLL

**Precision Gage Co., Inc.**  
 100 Shore Drive Burr Ridge, IL 60521  
 630-655-2121 Fax 630-655-3073  
 www.precisiongageco.com



development program and to give visitors the knowledge they need to take their ideas from "concept to product." This unique program provides prototypes, short-run or long-run production and ultimately, a laser system suited to the manufacturer's operation.

Special attention will be provided to laser gear welding, hydraulic cylinder laser welding, selective heat treating and laser lap welding for sheet metal applications.

**Leistriz Corp. (Booth C-5315)**  
**Machine Tool Division**  
 165 Chestnut Street  
 Allendale, NJ 07401  
 (201) 934-8262  
 Fax: (201) 934-8266  
 jross@leistrizcorp.com  
 www.leistrizcorp.com

The PW200 Whirling Machine is the first in a series of newly engineered thread producing machines from

Leistriz. With its broad work range of 1/2" to 4" diameters, and cycle times 3 to 4 times faster than other methods, the PW200 is the fastest way to produce precision gear worms available, says the manufacturer.

The PW65 Whirling Machine from Leistriz is not only the smallest, but also the fastest machine in the manufacturer's inventory. The PW65 has a workpiece diameter range of .187" to .625". This compact, yet sturdy machine is capable of whirling at 12,000 rpm.

**Liebherr Gear Technology—**  
 See Sigma Pool

**LMT-Fette, Inc. (Booth E-2765)**  
 18013 Cleveland Parkway  
 Suite 180  
 Cleveland, OH 44135  
 (216) 377-6130  
 Fax: (216) 377-0787  
 www.fette.com

Visit LMT-Fette for more information on their line of precision metalworking cutting tools.

**M&M Precision Systems Corp.**  
 (Booth B-7132)  
 300 Progress Road  
 West Carrollton, OH 45449  
 (937) 859-8273  
 Fax: (937) 859-4452  
 info@mmprecision.com  
 www.mmprecision.com

M&M Precision Systems Corporation manufactures CNC analytical gear inspection systems for parallel and crossed-axis gears as well as a full range of gear and spline gages and testing instruments. On display will be three complete CNC metrology systems, including one configured for spiral bevel gear inspection; the GRS-2 double-flank gear roller system; the ODM-8 dimension over pins gage; as well as M&M spline gages and master gages.

**Mahr Federal Inc.**  
 (Booths D-4417 & D-4501)  
 1144 Eddy Street  
 P.O. Box 9400  
 Providence, RI 02940

# 4-Axis NC Hob Sharpener



**Base Price**  
**\$99,500**



- Sharpens straight and spiral gash hobs.
- Sharpens shaper cutters, rotary cutters, spiral bevel cutters.
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**WEST 1-800-252-6355 (California)**  
**E-Mail: sales@csaw.com • Website: www.csaw.com**



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 MACHINERY SALES AND SERVICE

Colonial Saw Company, Inc., 122 Pembroke St., PO Box A, Kingston, MA 02364

SEE US AT IMTS BOOTH #B-6465

CIRCLE 116

(401) 784-3100

Fax: (401) 784-3246

info@fedprod.com

www.mahr-federal.com

Mahr Federal will demonstrate two measurement systems for gear manufacturers. The quick and easy-to-use DF1-898B is a modular, field-proven double-flank gear roll tester, which comes with or without encoded glass scale for accurate radial center distance pre-setting. The DF1-898B is controlled by Mahr Federal's popular WinGear® Pro Series PC Test and Evaluation software for Windows™ 95/98/NT environments. The combined system offers a common and flexible platform for data collection, evaluation and SPC data transfer for gear roll testing, letting you determine total composite, tooth-to-tooth, radial runout and other errors with a single mouse click.

The Primar MX4 is Mahr Federal's latest advancement in analytical measuring technology. The Primar is a universal inspection system, which is based upon generative testing principles. Primar offers users capabilities for conducting high accuracy measurements on both polar and linear form and generative gear testing (two-axis scanning), and 3-D polar measurements all in one system. This system is ideal for a variety of cylindrical components—gears, splines, camshafts, crankshafts, pistons and more.

**Manufacturing Technology, Inc.**

(Booth B-6005)

1702 West Washington Street

South Bend, IN 46628

(219) 233-9490

Fax: (219) 233-9489

info@mtiwelding.com

www.mtiwelding.com

Manufacturing Technology, Inc. will be showing many friction welded samples that have previously been welded on MTI friction welding equipment. Applications include aerospace, aircraft, agricultural, automotive, bimetallic, cutting tools, oil-field, trucking and waste canisters.

MTI's show booth will have an 18-foot-long by 9-foot-high photographic mural of the world's largest friction welder, specifically made for Rolls-

Royce, with 2,000 ton welding force. MTI will also show an informational video of the friction welding process. Booth personnel will be available to answer friction welding questions.

**Mitsubishi Heavy Industries, Inc.**

(Booth A-8260)

Machine Tool Division

1250 Greenbriar, Suite B

Addison, IL 60101-1065

(630) 693-4700

Fax: (693-4710)

www.mhi-mmt.com

The Mitsubishi booth will feature the following machine models: Horizontal Machining Centers M-H60EN and M-H5BN; Vertical Machining Center M-V70E-FM; Cylindrical Grinding Machine PD32-50; Gear Cutting Machines ST40, GN20A, and ZS25A; and Turning Machine TM4-20.



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We will design, build and guarantee from your gear summary charts gear dressers for **Reishauer SPA** and **Fässler DSA Systems**—Direct-Plated or Sinter-Bond Single- or Double-Sided Dressers.

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SEE US AT IMTS BOOTH #B-6865

CIRCLE 201

**Multi-Arc Inc.(Booth E-2554)**  
 200 Roundhill Drive  
 Rockaway, NJ 07866  
 (973) 625-3400  
 Fax: (973) 625-2244

Multi-Arc Inc. is announcing that the company is changing its name to IonBond Inc. at IMTS 2000. IonBond Inc. is a leading provider of coatings for cutting tools and wear parts.

**National Broach and Machine Co.**  
 (Booth B-7048)  
 17500 Twenty-Three Mile Road  
 Macomb, MI 48044-1103  
 (810) 263-0100  
 Fax: (810) 263-4571  
 sales@redringproducts.com  
 www.redringproducts.com  
 Visitors to National Broach and Machine Company in the gear pavilion will view the exciting new Red Ring brand products for

the new millennium. Red Ring's 70 years of global experience in the entire gear manufacturing process will be demonstrated. From surface broaching on the NBV flexible, compact, internal broaching machine to the Red Ring/Kashifuji KA 100 hobbing machine, followed by gear shaving on the Red Ring Shavemaster 200 with its innovative bed design for optimum quality and efficiency. The inspection of the demonstrated parts will be on both the Red Ring precision CNC Gear Inspection Machine, the CLP-35, and the Red Ring Gear Rolling Tester, GTR-PC.

Visitors will also be able to see the newest developments in roll forming—with the new Red Ring NC Precision Vertical Roll Forming Machine, the PFM-610.

Complementing the Red Ring gear finishing machines will be the high quality Red Ring brand tools featuring tool development for broaching, shaving, hobbing, honing and roll form finishing.

*Also, a major announcement by National Broach & Machine Company will occur at the show.*

**Niles GmbH (Booth B-6950)**—  
 See Kapp.

**Oerlikon**—See Sigma Pool.

**The Ohio Broach & Machine Tool Co.**  
 (Booth A-8675)  
 35264 Topps Industrial Parkway  
 Willoughby, OH 44094  
 (440) 946-1040  
 Fax: (440) 946-0725  
 www.ohiobroach.com

Ohio Broach & Machine offers extensive capabilities in broaches, broach sharpening, broaching machines and broaching production.

**Optical Gaging Products, Inc.**  
 (Booths E-2524 and D-4500)  
 850 Hudson Avenue  
 Rochester, NY 14621-4896  
 (716) 544-0400  
 Fax: (716) 544-0131  
 sales@ogpnet.com  
 www.ogpnet.com

Optical Gaging Products designs and manufactures non-contact inspection



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 Home Page: <http://www.purdytransmissions.com>  
 E-Mail: [sales@purdytransmissions.com](mailto:sales@purdytransmissions.com)

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systems that provide solutions for the measurement of machine parts used by manufacturing industries worldwide. For over 50 Years OGP has been at the forefront of innovation with the development of such technologies as automatic edge detection for optical comparators, low-cost, high-value video measuring systems, and programmable LED illuminators.

**Production Dynamics (Booth E-2527)**

2351 Industrial Drive  
Valparaiso, IN 46383

(219) 464-7938

[rja@productiondynamics.com](mailto:rja@productiondynamics.com)

[www.productiondynamics.com](http://www.productiondynamics.com)

Visitors will be able to see Production Dynamics' full line of collet chucks, shrink-fit toolholder systems and I.D. workholding systems.

**Reishauer Corporation**

(Booth B-7033)

1525 Holmes Road

Elgin, IL 60123

(847) 888-3828

Fax: (847) 888-0343

[dennis.richmond@reishauer-us.com](mailto:dennis.richmond@reishauer-us.com)

[www.reishauer.com](http://www.reishauer.com)

Visitors can stop by to learn about Reishauer's line of CNC gear grinding, thread and worm grinding, honing and automatic tap grinding machines, as well as the Richardson line of CNC gear hobbing machines.

**Samputensili/SU America**

(Booth B-7047)

8775 Capital Avenue

Oak Park, MI 48237

(248) 548-7177

Fax: (248) 548-4443

[sales@suamerica.com](mailto:sales@suamerica.com)

[www.samputensili.com](http://www.samputensili.com)

Samputensili will present its enhanced product line, now inclusive of gear hobbing machines and bevel gear generators thanks to the acquisition of Hurth Modul GmbH. On display there will be the WF 160 model hobber and the KF 250 model bevel gear generator.

Emphasis will also be put on the complete line of gear cutting tools and

related resharpening services offered by SU worldwide.

Additionally, the new TWIN 400 Gear Grinding Machine will be displayed (work area only) featuring 5 controlled axes, CBN or ceramic wheel capabilities, form or generation grinding and honing. CBN electroplated wheels will be exhibited also as part of Samputensili's latest manufacturing program.

**Sigma Pool (Booth B-7040)**

1465 Woodland Drive

Saline, MI 48176

(734) 429-7225

Fax: (734) 429-2294

[info@LGT.Liebherr.com](mailto:info@LGT.Liebherr.com)

This booth features Klingelnberg, Liebherr, Lorenz and Oerlikon A full range of CNC gear hobbing, CNC gear inspection, CNC gear shaping, bevel gear generation and material handling

**REM<sup>®</sup> PROCESS**

- ELIMINATE WEAR
- REDUCE NOISE
- INCREASE POWER DENSITY

Regardless of how fine you machine, grind, hob, or shave your gears, the final surface finish is a series of parallel peaks and valleys. During operation, these peaks produce metal-to-metal contacts. These metal-to-metal contacts result in the peaks being ground or broken off, producing the first generation of tooth pitting. Studies have shown that once tooth pitting begins, it will continue until ultimately the gear teeth fail.

The REM<sup>®</sup> Process, specifically used in finishing gears, will produce peak-free finishes in the 1 microinch range. This finish will eliminate metal-to-metal contact pitting, resulting in increased wear life and reduction in noise.

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TEL: (979) 277-9703 • FAX: (979) 277-0309

REM (Europe)  
5 Stockton End, Sandy, Bedfordshire, England SG 19 1RY  
TEL: 00 44 1767 691592 • FAX: 00 44 1767 69 1599

Website: [www.remchem.com](http://www.remchem.com)

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systems will be on display.

**S.L. Munson (Booth B-6865)**

401 Huger Street  
Columbia, SC 29201  
(803) 252-3211

Fax: (803) 929-0507

[kstone@slmunson.com](mailto:kstone@slmunson.com)

S.L. Munson is the distributor of Dr. Kaiser diamond dressing products, IMT America spindles, Campbell Grinders, DWH vitre-

ous diamond wheels and balancing systems from an Italian manufacturer.

**Star Cutter Co. (Booth B-6953)**

23461 Industrial Park Drive  
P.O. Box 376

Farmington, MI 48332-0376

(248) 474-8200

Fax: (248) 474-9518

[sales@starcutter.com](mailto:sales@starcutter.com)

[www.starcutter.com](http://www.starcutter.com)

Visitors will see CNC sharpening and tool grinding machines, hobs, form relief milling cutters, pressure coolant drills & reamers, non-pressure coolant drills & reamers, PCD tooling, Gold Star thin-film, wear resistant coatings, carbide preforms, shaper cutters, shaving cutters, solid carbide tools and single- and two-flute gun drills.

**Suhner Industrial Products Corp.**

(Booth E-2633)

Low Cost Automation Division

Highway 411 S. Suhner Drive

P.O. Box 1234

Rome, GA 30162-1234

[info@suhnerusa.com](mailto:info@suhnerusa.com)

[www.suhnerusa.com](http://www.suhnerusa.com)

Suhner will demonstrate its line of drilling and tapping components, as well as multi-head systems.

**Sunnen Products Co. (Booth B-7301)**

7910 Manchester Ave.

St. Louis, MO 63143

(314) 781-2100

Fax: (314) 781-2268

[www.sunnen.com](http://www.sunnen.com)

Sunnen produces a line of high-performance, modular bore-sizing and finishing machines featuring Sunnen's MHS Krossgrinding® system.

**TSK America (Booth D-4717)**

Advanced Metrology Division

20 Chapin Road #1003

P.O. Box 838

Pine Brook, NJ 07058

(800) 247-9875

[www.tsk-metrology.com](http://www.tsk-metrology.com)

The TSK booth will have on display the Radiance radial measuring system for gears.

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If you did not care for this column **circle 222**.

If you would like to respond to this or any other article in this edition of *Gear Technology*, please fax your response to the attention of Charles Cooper, senior editor, at 847-437-6618 or send an e-mail message to [Charles@geartechnology.com](mailto:Charles@geartechnology.com).