

## A/W Systems

**Booth Number: B7218**

### Description:

A/W Systems manufactures a complete line of tooling for both straight and spiral bevel gearing. Most notable is our line of Face-Hob Cutter Bodies, which are available in all of the most common U.S. blade and size combinations (e.g. 11/64, 13/76, 17/88, 13/105, 19/105). Our In-House blade grinding capacity allows us to provide fully sharpened and coated stick blades, in M2 HSS, Rex 76, Ultra-fine grain Carbide, or any other customer desired substrate. Of course, a variety of coatings are also available.

Additionally, A/W Systems has entered into a partnership with Klingelnberg-Oerlikon Tech Center to provide state-of-the-art hypoid gear tooling technology and services to the U.S. gear manufacturing market.

Our booth will display a wide variety of gear tooling, as well as provide technical materials.



**Contact:**  
**A/W Systems**  
**612 E. Harrison**  
**Royal Oak, MI 48067**  
**Phone: (248) 544-3852**  
**Fax: (248) 544-3922**

## Gleason Cutting Tools CORPORATION

**BOOTH #B-6902**

**More lean, less leadtime.** Gleason Cutting Tools Corporation is leading the industry in Lean Manufacturing methods and applying advanced equipment at its ultra-modern facility in Loves Park, IL to speed deliveries and improve efficiency. Today, with so much riding on shortening leadtimes and improving quality, Gleason Cutting Tools is your single best source for:

- Hobs • Shaper Cutters • Shaving Cutters • Bevel Stick Blades
- Plated CBN Wheels and Plated Diamond Rolls • Form-Relieved Milling Cutters

A host of contract services are available as well, including tool resharpener, advanced coatings, heat treat, metallurgical lab analysis, workholding repairs, pickup/delivery and technical gear schools.



**4 week delivery on shaper cutters (2 weeks for PDQ shapers); 5 weeks for hobs (3 weeks for PDQ hobs)!**



For more information, visit [www.gleason.com](http://www.gleason.com)

## Gleason Corporation

**BOOTH #B-6902**

**Keeping the World in Motion.™** Today Gleason stands virtually alone in its ability to deliver the complete array of technologically superior gear-producing solutions. You can see many of the latest breakthroughs up close and in action at IMTS '04, including:

- PHOENIX® II 275G Bevel Gear Grinding Machine, working in concert with Gleason-Mahr's new GMX 400 Gear Inspection Machine and GEMS (Gleason Expert Manufacturing System) software to 'close the loop' on bevel gear quality.
- P 600 G Profile Grinding Machine, using new patent-pending profile grinding software to greatly reduce non-productive time and improve quality.
- P 90 Horizontal Hobbing Machine, featuring improved direct-drive spindle performance.
- The 245TWG High Speed Threaded Wheel Grinder, making hard finishing in high volumes economical.



For more information, visit [www.gleason.com](http://www.gleason.com)

## Star-SU

**Booth Number: B6912**



STAR-SU OFFERS A COMPREHENSIVE LINE OF GEAR MANUFACTURING EQUIPMENT:

### Machine tools

Cylindrical gear hobbing  
Bevel gear cutting  
Shaping  
Profile grinding  
Continuous generating grinding  
Shaving cutter grinding  
Hob grinding  
Universal tool grinding  
Carbide tool grinding  
Chamfering and deburring

### Cutting tools and services

HSS and carbide hobs  
Shaper cutters  
Milling cutters  
Rack and saw cutters  
Shaving cutters  
CBN profile grinding wheels  
Master gears  
Chamfering and deburring tools  
Regrinding of gear cutting tools  
Coating of gear cutting tools  
Replating of grinding wheels

### Pickup and delivery services

### Commodity Management Services

### Round tools

Single and double flute gundrills  
Solid carbide gundrills  
Two-fluted milled style deep hole drills  
Solid carbide drills and reamers  
Pressure coolant drills and reamers  
"PCD" drills and reamers  
Integrated holder "PCD" tooling

Visit our website to download our complete program of products and find the match for your particular need.

**www.star-su.com**  
**sales@star-su.com**  
**Phone: 847-649-1450**  
**Fax: 847-649-0112**

**www.suamerica.com**  
**www.starcutter.com**  
**www.bourn-koch.com**

**See us at IMTS 2004,  
in Booth 6912, North Hall**

## M&M Precision Systems Corp.

**Booth Number: B-7107**

M&M Precision Systems will display the industry's largest variety of functional and analytical gear inspection products at IMTS 2004. Products exhibited will include the popular MicroTop CNC Gear Analyzer, two models of M&M's full range Sigma CNC Gear Inspection Systems, the ODS 6 and DOP 150 Dimensions-Over-Pins Gauges, the GRS-2 Double Flank Roll tester with integrated PC analysis software and a full display of our Master Gears and Spline Gauge products.

M&M will also provide information regarding the ISO 17025 accreditation of its master gear/gear artifact certification laboratory, the industry's first such facility dedicated to gear inspection. For more information, visit [www.mmprecision.com](http://www.mmprecision.com).



## Marposs Corp.

**Booth Number: D4514**

### Need to Check Gears?

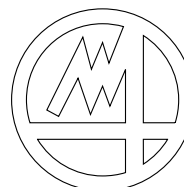
Looking for an easy, cost-effective way to check gears? The Marposs M62 bench gauge system with optional noise detection is accurate, easy to use and quickly re-toolable using ordinary hand tools. You'll save time and the cost of dedicated gauges. With the M62 you can measure:

- Radial composite deviation
- Radial runout
- Tooth to tooth radial composite deviation
- Tangential composite deviation
- Nicks
- Optional measurements include center distance, bore diameter and perpendicularity of bore to gear face.

All functional checks can be displayed on the rugged Marposs E9066 industrial PC system that offers a linear graphic display with full SPC functions.



### Contact



### MARPOSS

**3300 Cross Creek Parkway**  
**Auburn Hills, MI 48326-2758**  
**1-888-627-7677 • 1-248-370-0404**  
**Fax: 248-370-0621**  
**E-mail: [marposs@us.marposs.com](mailto:marposs@us.marposs.com)**  
**[www.marposs.com](http://www.marposs.com)**

## LIEBHERR GEAR TECHNOLOGY CO.



**Booth Number: B7016**

Sigma Pool partners Liebherr and Klingelberg will be exhibiting the following machines:

### Liebherr LCS 300 CNC Generating and Profile Grinding Machine

Flexible design allows use of CBN or dressable grinding worms or wheels, *plus* an Internal grinding option

### Klingelberg P26 Precision Gear Measuring Center

Increased accuracy, simpler operation and faster cycle times with an extended range of applications, including non-gear related CMM type capabilities

### Klingelberg Oerlikon C 27 Spiral Bevel Gear Generator

Dry cutting excellence with extremely short cycle times, using advanced direct drive technology

#### Contact:

Liebherr Gear Technology Co.

1465 Woodland Drive, Saline, MI 48176

Phone: 734-429-7225 • Fax: 734-429-2294 • Email: [info@lgt.liebherr.com](mailto:info@lgt.liebherr.com)



Liebherr LCS 300



Klingelberg P 26



Klingelberg Oerlikon C 27

## BOURN & KOCH INC

Bourn & Koch Inc. of Rockford, Illinois, will be introducing two NEW machines at IMTS 2004. They are:

- the NEW 100H Series II Gear Hobber, which incorporates many of the standard features and performance of the 200/400H at a very economical price.
- the NEW Fellows HS650 Gear Shaping Machine. The new design has 50% fewer mechanical parts than its FS series predecessors.

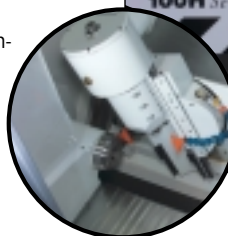
Also, be sure to ask about our other products and services, including complete rebuilding and retrofitting of machine tools.

Bourn & Koch, Inc.

2500 Kishwaukee St., Rockford, IL 61104

Phone: (815) 965-4013 • Fax: (815) 965-0019

Email: [bournkoch@worldnet.att.net](mailto:bournkoch@worldnet.att.net) • Web: [www.bourn-koch.com](http://www.bourn-koch.com)



**Booth Number: B-6912 North Hall**

## REISHAUER

**Booth Number: B7005**

**Reishauer never sleeps** when there are new machines and processes to be developed. If hard finishing of small gears is on your radar screen, you'll not find a more productive or accurate grinder on the market. We've drawn upon more than five decades of experience building gear grinding equipment to develop a compact machine that offers flexibility, grinding speed, ease of setup and accuracy. The RZ 150 sets a new industry standard for gear hard finishing equipment.

#### Contact

Reishauer

1525 Holmes Road

Elgin, IL 60123

Phone: (847) 888-3828

Fax: (847) 888-0343

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

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



Technical data:

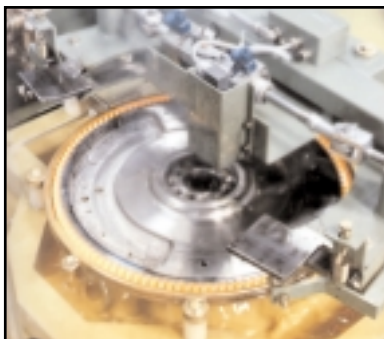
Workpiece outside diameter 150 mm / 5.9"

Number of teeth 6-150

Module/DP 1-3 / 25.4-8

Helix angle  $\pm 40^\circ$

Workpiece weight maximum 3 kg / 6.6 lbs



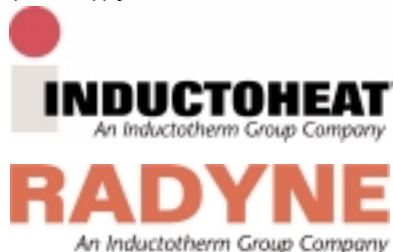
## Booth Number: B7153

Inductoheat Inc., Madison Heights, Michigan, and Radyne Corporation, Milwaukee, Wisconsin will showcase the latest in gear heat treating technology at IMTS 2004, including single frequency, variable frequency and Simultaneous Dual Frequency (SDF).

SINGLE FREQUENCY gear hardening for high volume dedicated applications allows for manual tuning, while VARIABLE FREQUENCY allows for tuning with a push of a button by matching frequency to a diametrical pitch.

The SDF induction gear hardening process improves quality and efficiency, yet yields better results and higher production rates than conventional heating processes. SDF is easily integrated into new or existing manufacturing lines as a flexible workcell.

In addition, Inductoheat and Radyne feature a fully functioning metallurgical laboratory and aftermarket support. They also produce induction scanners for general purpose heat treating and the Flexitune® induction heating power supply.



Inductoheat and Radyne are Inductotherm Group companies. They will be at booth B-7153 near the Gear Pavillion.

Inductoheat, Inc.  
Madison Heights, MI  
Phone: 248-585-9393  
Internet: [www.inductoheat.com](http://www.inductoheat.com)

Radyne Corporation  
Milwaukee, WI  
Phone: 414-481-8360  
Internet: [www.radyne.com](http://www.radyne.com)



## The best will be there.

See what's  
behind the  
door at

## Booth B-6931

2870 Wilderness Place  
Boulder, CO 80301

[www.kapp-usa.com](http://www.kapp-usa.com)

Ph: 303-447-1130  
Fx: 303-447-1131



## Booth Number: B6907

Koepfer America, L.L.C. is the exclusive distributor in North America for the MIRA product line by Tyrolit. Tyrolit is a world-class manufacturer of vitrified and abrasive products. The MIRA product line covers all products related to the manufacturing of gears, which includes tools for Gear-Honing and Gear-Grinding.

The tools for the Gear-Honing process include both positive- and negative-plated diamond dressing gears, diamond dressing rings, and honing wheels.

Tyrolit also manufactures grinding wheels for the Gear-Grinding process. This includes wheels for continuous generating grinding, as well as single profile wheels for index form grinding or index generating grinding.



### Contact:

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Internet: [www.koepferamerica.com](http://www.koepferamerica.com)

## Dura-Bar

Booth Number: E2172



### Continuous Cast Iron

Dura-Bar is the only manufacturer of continuous cast iron bar stock in North America, and is the largest in the world. Rounds, squares, rectangles, tubes and special shapes are supplied through a nationwide distribution network. Inherent properties include noise and vibration damping, machinability, strength, and wear resistance, making our bar stock an alternative to steel and other metals in fluid power, gear and other applications. New Dura-Bar Plus is an engineered iron that machines better than carbon and alloy steels and other grades of continuous cast iron. A material of uncompromising consistency, it allows metal component manufacturers to machine more parts per hour, thereby decreasing cycle time, increasing productivity, and boosting profitability.



**Dura-Bar**  
**1-800-BAR-MILL (227-6455)**  
**www.dura-bar.com**  
**sales@dura-bar.com**

## CERATIZIT

Booth Number: E-2377

**CERATIZIT Solid tungsten carbide blanks for hobs: Profit tooth by tooth!**

CERATIZIT has produced blanks for solid tungsten carbide hobs for many years. Every hob is an individually manufactured high-tech product based on our customers' drawings. Furthermore we offer tailor-made CERATIZIT tungsten carbide grades—a guarantee for reliability and maximum output.

### Convincing advantages:

- near-net-shape technology, with tight tolerances and improved grinding allowances
- efficient, homogeneous submicron tungsten carbide grades
- prompt delivery
- member of WZL Gear Circle

Ceratizit USA Inc.  
 777 Old Clemson Road, Columbia, SC 29229  
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 Internet: [www.ceratizit.com](http://www.ceratizit.com)



## KOEPPER

Booth Number: B6907

IMS Gear of Eisenbach, Germany, and Jos. Koepfer of Furtwangen, Germany, have joined their cutting tool divisions to create [ims.koepfer.cuttingtools.gmbh](http://ims.koepfer.cuttingtools.gmbh). This company provides a more comprehensive cutting tool program and improved customer service with a wider presence throughout Europe and North America. An expanded range of tools are now offered, including high-speed steel and carbide hobs that can be manufactured in bore and shank type designs. A maximum diameter of 180 mm (7.087 in) and a total length of 400 mm (15.748 in) is offered. The maximum pitch is extended to 8 module (3.175 DP).



**ims.koepfer.**  
 cutting tools gmbh

### Contact:

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