

Who's Who and What's What At Gear Expo '97

Below are listed the Gear Technology advertisers exhibiting at Gear Expo 97. Booth numbers are correct as of July 25, 1997.

Accu-Cut Diamond Tool Co., Inc. – Booth 728. Company staff will be on hand at Accu-Cut's booth to discuss the new finish requirements and bearing ratios for super-finishing the I.D.s of gears. On display will be the new Accubore Model VXG2 machine for finishing precision bores in a two-tool pass operation. Other diamond bore sizing tools for a variety of gear applications will also be on display.

Amarillo Gear Co. – Booth 523. Amarillo Gear Company will exhibit a variety of spiral bevel gears from its large range of parts. Catalogs of the company's product line of spiral bevel gears, right angle pump drives and right angle cooling tower fan drives will also be available in the booth.

American Gear Manufacturers Association – Booth 400. AGMA, the sponsor of Gear Expo 97, is an association of companies, consultants and academicians with direct interest in the design, manufacture and application of gears and flexible couplings. AGMA is member-driven and conducts programs for and provides services to the gear industry and its customers. AGMA's 380 members include gear manufacturers and suppliers to the industry from around the world. AGMA is accredited by ANSI to write all U.S. standards on gearing and is also the ISO Secretariat for TC 60, the committee that develops all international gearing standards.

American Metal Treating Co. – Booth 518. American Metal Treating Company will feature samples of gear induction hardening patterns at Gear Expo 97. The company's induction hardening experts will be at their booth to demonstrate their techniques. They will also be available to answer questions regarding your distortion and tooth wear problems and to discuss your heat treating requirements.

American Pfauter, L.P. – Booth 100. American Pfauter is a manufacturing unit of the Pfauter Group, the leading manufacturer of standard and custom machines and tools for rough and finish machining of gears. APL offers a comprehensive gear cutting machine program for gear hobbing, shaping, milling and grinding applications for cylindrical gears. APL will showcase its new, compact P200G CNC grinding machine at its booth. The P200G offers all the benefits of Pfauter's larger machines at an affordable price.

American Wera – Booth 348. American Wera, Inc., now representing Präwema, a German gear honing machinery producer, will feature these machines at its booth. Präwema *Synchro-Fine* high performance gear honing machines feature electronically synchronized technology. Another Präwema machine line, the hypocycloidal *Synchro-Form*, performs a step-lock milling process for sliding sleeves (back-angled shifter locks) that saves time and expense compared to the traditional method, which includes turning, broaching and other steps made unnecessary by the *Synchro-Form*.

ATA Gears Ltd. – Booth 509. ATA Gears has over 60 years' experience in the production of spiral bevel gears and custom-designed gear units. The company makes lapped, hard cut or

ground spiral bevel gears to AGMA quality number 14 and up to 47" and custom-made right angle gears to 5000 hp. Company experts will be on hand to discuss your gearing needs.

A/W Systems Company – Booth 121. A/W Systems has a full line of spiral gear rough and finish cutters and bodies. The company will be displaying a complete array of gear cutting tools: stick blades and bodies, straight bevel blades, rack cutters, diamond dressing tools, spiral gear cutting blades, keyseat cutters, hard turning (CBN) tools and bore and height gages. All products are manufactured in the U.S.

Barit International Corporation – Booth 155. Barit is a supplier of spur and helical gear tooling. Its manufacturing and off-the-shelf inventory includes: gear and worm gear hobs; parallel and involute spline hobs; disc, deep C-bore and shank type shaper cutters; keyway, round spline, hexagon, square surface and special form broaches and shaving rolls. Hobs and shaper cutters are available in a 1 DP and finer range. They are all precision ground, made to AGMA standards, TiN coated and available for immediate delivery. Staff will be on hand at the Barit booth to discuss your tooling needs.

Basic Incorporated Group – Booth 160. Basic is an importer and distributor of machine tools manufactured in the Far East. The company offers 50 models of gear hobbers, shapers, honers, shavers, grinders, gear cutter grinders, bevel gear generators, rack shapers, worm millers, gear testers and more. Manual, automatic and CNC gear machines are available. Machines are stocked in Los Angeles for prompt delivery, and service technicians are quartered in both Chicago and Los Angeles. Basic bills itself as one of the few sources available for new "manual" gear machines.

Bourn & Koch Machine Tool Co. – Booth 361. Bourn & Koch will be exhibiting its newest standard model hobbing machine, the 100HCNC. The hobber is a 4-axis CNC machine capable of cutting 10 NDP, AGMA Class 10 up to 5.0" in diameter. The 100H has a small footprint and incorporates the latest technologies.

Colonial Saw – Booth 738. Colonial Saw will exhibit a new NC hob grinder for straight and helical gashes, high-speed steel and carbide. The UTMA model LC35-NC3 is a 3-axis NC tool grinder that can sharpen end mills, milling cutters and shaper cutters as well as hobs. The company says the LC35-NC3 combines accuracy, ease of setup and flexibility at an affordable price.

Colonial Tool Group Inc. – Booth 642. Colonial Tool will be showing a wide variety of precision high speed spindles for many machining applications and a selection of broach tools, broaching systems and spline rolling racks. Colonial will customize tools to match customers' applications. Technologists will be on hand to discuss Colonial services, including turnkey machine setups and in-house design, manufacturing and heat treating for individual customer applications.

Commercial Steel Treating Corporation – Booth 535. Staff will be on hand to discuss a wide range of heat treating services, including carbonitriding, carburizing, gas nitriding and salt bath

nitriding. According to the company, salt bath nitriding (ferritic nitrocarburizing) in particular, extends the wear, corrosion and fatigue properties with minimal distortion.

Crown Gear B.V. – Booth 442. Visitors to Crown Gear's booth will be introduced to the revolutionary Cylkro® gear technology used for the development of the Cylkro angular transmission and the Cylkro tooth coupling. Technical features of the Cylkro angular transmission, a cylindrical pinion with an involute profile mating with a Cylkro face gear, are axial freedom of the pinion, freedom of choice (0°–110°) of the shaft angle, and the options of either straight or helical teeth with or without axis offset and the possibility of meshing multiple pinions with one or more Cylkro gears.

Diamonex – Booth 427. A unit of Monsanto's Advanced Performance Materials Group, Diamonex is the largest commercial manufacturer/developer of products and vacuum technologies based on diamond and related superhard materials. It also provides coating services and process/product development and engineering. Its coatings for gear components have the following characteristics: DLC coating thickness range 0.00001"–0.00010"; microhardness 5–35 GPa (500–3,500 Vickers); friction coefficient ≤ 0.1 ; deposition process temperature $<150^{\circ}\text{C}$; film surface roughness—conformal, identical to substrate.

D.I.G.I.T. – Booth 334. This builder of custom-designed gages will be demonstrating its products. D.I.G.I.T. gages provide repeatable exact gear measurements, including pitch diameter of internal or external spline, helical or spur gears with either odd or even numbers of teeth. The gages will operate in any environment, be it the shop floor or the testing lab.

Dura-Bar – Booth 543. Dura-Bar is an industry leader, supplying continuous cast iron bars to industry. The company says its special process eliminates scrap resulting from shrinkage, porosity and tool-wearing inclusions that frequently occur in static-cast iron. Bars are available in gray and ductile iron, in round bars from 5/8" to 20" in diameter and also in machined gear blanks. Staff will be on hand to discuss your continuous cast iron needs.

Emuge Corporation – Booth 601. Emuge is a manufacturer of quality workholding and electronic control systems for gear manufacture. The precision clamping product line includes arbors, chucks, diaphragm chucks, spindles, draw bars and machine operation measuring systems configured to accomplish a broad range of turning, grinding, hobbing, milling, drilling, lapping, balancing, inspection and assembly operations. Emuge's mechanical, hydraulic and mechanical/hydraulic systems achieve an excellent runout accuracy—typically .00008–.0002—and offer reliability, functionality, clamping element interchangeability and ease of maintenance. Staff will be present to discuss custom applications.

Euro-Tech Corp. – Booth 731. Euro-Tech will be exhibiting the following new items at its booth: The Frenco "URM-K" profiled shaft inspection machine designed for fast, accurate inspection of profiled shafts; the Frenco "dynamic gage," which offers three-second inspection of size and form/profile on internal or external splines; the Frenco "VPE," a new DOP/DBP bench gear tester with a movable Z-axis to measure spur and helical gear size, crown and taper; the complete line of Mytec hydraulic expansion arbors, chucks and quick change tooling for gear manufacturing; and the Kostyrka line of compensating face washers for hob holding applications.

Fässler Corp. – Booth 244. Fässler Corp. suggests that when you want to reduce the cost of gear production by eliminating shaving and grinding, the Fässler K-300 5-axis CNC gear honing machine is the answer. It will be on display at the Fässler booth, along with the HS-100 hard broaching machine, which the company recommends as an alternative method for processing splined bore parts.

The Gleason Works – Booth 100. At Gear Expo 97, The Gleason Works will display a complete line of bevel and cylindrical gear cutting machines in its new 120' x 30' booth. Also shown will be profile grinding and honing machines manufactured by The Gleason Works, Gleason-Hurth and Pfauter. An extensive line of workholding products and Pfauter-Maag cutting tools for the gear industry will be displayed. Show attendees will see the latest in gear manufacturing machines, processes and equipment.

Global Gear – Booth 408. Global Gear is a manufacturer of quality precision helical and spur gears. The company will have examples of its product on hand, as well as technicians to discuss your product engineering, tool design and EDI needs. You are invited to stop at the booth to see how Global can help your company meet the demands of a rapidly changing gear market.

Great Gear Corp. of Taiwan – Booth 715. On display will be a wide variety of gears, including spur, helical, internal, external, worm, bevel, plastic and herringbone. Aerospace gear shafts in titanium alloy or AISI 9310 up to AGMA class 14 will be shown. Gearboxes and gearheads for AC/DC/stepper motors will also be shown. Great Gear can also do crown and skive hobbing for noise reduction and misalignment compensation and sintering.

Ikegai America Corp – Booth 126. Ikegai will be displaying its SX-15 CNC gear hobber and the SAN-20 CNC hob sharpener. The SX-15 uses a 2,000 rpm spindle along with a 220 rpm table and comes with a hob quick-change system, which eliminates hob centering at regrinding. The machine is also equipped with a Fanuc 5-axis CNC. Its maximum workpiece diameter is 150 mm; maximum gear module is M4 (6) and maximum hob diameter times length is 120 x 180 (120 x 250) mm. The SAN-20, 4-axis CNC hob sharpener is fully automatic and can grind spiral as well as straight gear hobs. The Y-axis cross-slide travel is NC-controlled, allowing fast and simple changes between CBN and standard grinding wheels. Spindle speed is 3,000 rpm. Maximum hob diameter is 220 mm; maximum hob length is 270 mm and maximum hob pitch is DP 1.6/M 16.

ITW Heartland – Booth 314. ITW Heartland has been designing and manufacturing gear inspection systems for over 60 years. The company also manufactures high-speed, high-production burnishing machines. On display at the Heartland booth will be a dimension-over-pins unit, a computerized gear roller, gear rolling inspection units and video demonstrations of high-speed gear inspection and burnishing machines. Visitors are also encouraged to visit the company's Web site at www.gctel.com/~itwgearsitwheart.htm.

Kapp GmbH – Booth 144. Kapp GmbH, along with affiliated companies, Niles, Kapp Sales & Service and Kapp Tech, will display machine modules demonstrating external and internal gear and profile hard finishing. In addition, CBN grinding wheels from Kapp Tech, product photos and specifications from Niles and new Kapp technologies will be introduced. Kapp and Niles machines are capable of hard finishing gears and profiles using four technology concepts: form grinding with CBN profile grinding wheels; form grinding with dressable grinding wheels; form generation with dressable or non-dressable wheels; and coroning. Coroning is a unique, efficient, hard gear finishing process using non-dressable CBN coroning rings.

Koepfer America, L.L.C. – Booth 256. The new Koepfer Model 160 will be on display at the company's booth. The 160 is an 8-axis CNC high speed hobbing machine designed for either dry or wet hobbing. The cutter and work spindles have a maximum speed of 5,000 rpm and 1,000 rpm, respectively. This machine also incorporates a 45° slant bed to aid chip flow, as well as a high speed load/unload system to quickly change (2–3 seconds) parts. Also on display will be a CNC hob sharpener and various cutting tools.

Fässler Focusing on Direct Honing!

Fässler K-300 & K-400 Gear Honing Machines



Fast, economical hard gear finishing process that increases gear life while reducing or eliminating gear noise.

- Internal or external gears
- Spur, helical, or cluster gears

With Direct Honing you can hob, heat treat, and hone your gears to market requirements.

With Universal Honing it is possible to finish a family of gears having the same tooth characteristics with varying numbers of teeth.

With Combi-Honing you can rough and finish on the same machine with honing stones mounted in tandem.

MACHINE FEATURES:

- 5 and 6 CNC controlled axes
- Synchronous drives on the K-400
- CNC control of lead crowning and taper
- Short setup times

CHARACTERISTICS OF HONED GEARS:

- Increased wear resistance
- High surface finish
- Favorable machining marks for noise reduction
- Low surface roughness guarantees a permanent oil film

Fässler

Fässler Corporation
11782 N. Maple Road
Germantown, WI 53022
Phone: 414-255-0695
Fax: 414-255-9676
E-Mail: fassler@execpc.com

Fässler AG
Ringstrasse 20
CH-8600 Dübendorf
Switzerland
Phone: 011-411-821-3745
Fax: 011-411-820-3906

Fässler makes good gears better!

Lambert/Wahli/Parker – Booth 132. Lambert and Wahli CNC hobbers will be on display. These machines are suitable for pitches of 12 DP and finer. There will also be information about a Wahli machine for very fine pitch work and a Lambert worm and thread miller. With hob speeds up to 4000 rpm, these CNC machines are excellent for use with carbide and HSS hobs. A selection of high quality carbide and HSS hobs and shaper cutters will also be on display, together with spline gages and master gears from the Parker Industries group.

Lemur Enterprises – Booth 129. Staff will be on hand to demonstrate the GeCCo[®] v. 1.1 (Gear Cutter Configurer) software that calculates machine settings for spiral and straight bevel gears cut on Gleason machines in-house on the customer's own computer. Information will also be available on the new visual drive train design program which enables the user to build any drivetrain and then automatically perform the mathematical analysis to check the workability of the design.

Liebherr-America – Booth 648. Liebherr will be demonstrating three new machines at Gear Expo. The LC 83 is Liebherr's high speed, high precision dry gear hobbing machine, which has a 3,000 rpm hob head and a 450 rpm table drive, which permits cutting speeds up to 2,000 feet/min. The Höfler ZP 260 is a new, compact CNC gear inspection center for the shop floor. It is suitable for measuring work pieces up to 40" in diameter and 4" between centers. It has full three-axis measuring to 4 millionths' resolution, a collision-protected 3-D multi-axis probe and a wide range of software. Oerlikon will also demonstrate a new bevel gear machine.

LMT-Fette – Booth 530. On display at this booth will be solid carbide hobs for dry machining, heavy duty roughing and finishing hobs, indexable carbide insert hobs, skive hobs for hardened gears, Gash-Master hobs with most gashes available and gear gashing cutters. Technical staff will also be on hand to discuss visitors' specific applications.

M & M Precision Systems – Booth 230. M & M provides a complete line of computerized analytical and functional gaging systems, including gear inspection systems with capacities up to 95" in diameter. M & M's exclusive GearNet[™] server automatically shares data for SPC, remote analysis and archiving. The company's gear inspection systems feature certification to .001 mm, traceable to NIST and .00002 mm probe resolution. New models are 20% faster for greater part throughput.

Mahr Corporation – Booth 655. Visitors will want to see Mahr's DFI 890 series, double-flank gear roll testers, which provide accept/reject test results to ISO, AGMA and DIN standards and which have Windows[®] 95-compatible WinGear[®] test and evaluation software. Mahr, an ISO 9001-certified supplier, provides a comprehensive gear product line including hand-held gear measuring tools; PC-controlled double-flank roll testers, PRIMAR universal CNC analytical gear and form testers and surface finish test equipment for gear tooth profiles.

Manufactured Gear & Gage – Booth 721. MG&G will introduce a computer-driven version of its hob & cutter measuring instrument. This version, which the company describes as versatile, accurate and economical, has options for 6" ITW and 10" Barber Colman index plates.

Mitsubishi Machine Tool – Booth 354. Mitsubishi will exhibit the newest addition to its family of gear machines—the ST25CNC. This new gear shaper combines a high speed, high precision spindle with a patented synchronized control that eliminates the need for helical guides. Helical gears can be handled by simply setting the helix angle on the CNC control. The company says this machine is ideal for short run prototype work because angle adjustments are easily made, and the gears are shaped quickly.

Now you can turn your surface grinder into a spur gear and spline grinder.



Normac's revolutionary spur gear and spline grinding package retrofits to your current surface grinder turning it into a profit making center at a fraction of the cost of a gear grinding machine.

The package includes:

The Formaster CNC Grinding Wheel Profiler, with diamond disc rotary attachment and constant preload, for dressing wheels up to 2" (50 mm) wide. A Lehmann precision indexing head. Siemens 810M control with brushless servo motor system (not shown). External spur and spline software that automatically generates part programs on a personal computer with MS-DOS.

See the spur gear and spline package at Gear Expo '97 - Booth #630



Normac, Inc.
Precision Grinding Machines

PO Box 245 / 720 East Baseline Road / Northville, MI 48167 USA
Tel: +1 248 349 2644 / Fax: +1 248 349 1440
E-mail: info@normac.com / Web: www.normac.com



**BARIT
INTERNATIONAL
CORPORATION**

GEAR CUTTING TOOLS

"On the Shelf Inventory"

DIAMETRAL & MODULE



- HOBS
- SHAPER CUTTERS

1DP and finer
Made to AGMA
standard



SPECIAL MADE TO ORDER TOOLS

- HOBS
- SHAVING CUTTERS
- SHAPER CUTTERS
- BROACHES
- FORM RELIEVED INVOLUTE MILLING CUTTERS

BARIT INTERNATIONAL CORPORATION

3384 COMMERCIAL AVE.
NORTHBROOK, IL USA 60062-1909
TEL: 847-272-8128 FAX: 847-272-8210
E-mail: barit@enteract.com
or visit us at: <http://www.barit.com>

SEE US AT AGMA GEAR EXPO BOOTH #155

CIRCLE 175

How The Best Do It! Learn From These Presentations:

- Predicting Transmission Error
- Methods to Detect Cracks in Gears
- New Advances in Shot Peening
- Bevel Gear Manufacture
- Gearbox Heat Rejection Analysis
- Sound Power Levels in Enclosed Drives
- Worm Gear Wear and Pitting Discussions
- Wind Turbine Gearbox Design

Mark Your Calendars Now!

Hear the best engineers in the industry:

- | | | |
|--------------------|------------|-----------|
| • Amarillo Gear | • Boeing | • Gleason |
| • R.E. Smith & Co. | • Gleason | • Eaton |
| • Univ. of Dresden | • GEARTECH | • CETIM |
| • Northrop Grumman | • Lockheed | • UNED |

AGMA's 1997 Fall Technical Meeting November 9-11 • San Diego

Questions? Please contact the AGMA,
1500 King St. #201, Alexandria, VA 22314-2730
Phone (703) 684-0211 Fax (703) 684-0242
See www.agma.org for a complete list of abstracts
and registration information.



SEE US AT AGMA GEAR EXPO BOOTH #400

CIRCLE 125

S. L. Munson & Company – Booth 645. The S. L. Munson booth will be featuring Dr. Kaiser precision diamond products for gear dressing. Dr. Kaiser produces direct plated and sintered construction in a full range of modules and pressure angles. Applications available for most dressing systems including Reishauer, Fässler, Gleason, Høglund, Normac, G11, Liebherr, Csepel & Niles.

National Broach & Machine Co. – Booth 600. Three newly developed broach machines, all of which can be operated at floor level for optimum efficiency, will be on display at this booth. Visitors will also be able to see the new Red Ring Shavemaster gear shaving machine with 8-axis CNC control, the Red Ring/Kashifuji KA-400 CNC hobbing machine, and the Red Ring gear inspection analyzer for parallel-axis and spiral bevel gear checking. Also on display will be the latest in gear finishing tool for Spiralglide broaching, new material and coatings for hobs, shaver cutters, roll form racks and hones.

Normac Incorporated – Booth 630. Normac will be showing a variety of its gear grinder and related supplies. The company's CNC threaded wheel truing system includes the Wheel Profiling Center, software for calculating the required form and a special dresser unit to replace the existing dresser on the grinding machine. Sales engineers will be on hand to discuss customers' grinding applications.

Nye Lubricants, Inc. – Booth 330. The new line of synthetic gear oils by Nye Lubricants is backed by 150 years of specialty lubricant experience. This new line is for applications where extended lubricant life and wide temperature serviceability is required. These oils have a very high load carrying capability and are compatible with most seals, plastics and painted surfaces. Engineers will be available to answer questions about the SGO340 series of oils and other gear lubricant products. Information will also be available on the Nye "Lube Seminar" and on ways to improve gear performance and reduce friction and wear through better lubrication.

Perry Technology Corporation – Booth 117. Perry Technology invites show visitors to talk to their "Gear & Spline Experts" and to see a demonstration of a helical shaping operation. The Perry booth will also display a wide selection of geared and splined components and photos of the company's state-of-the-art manufacturing facility and equipment. Three generations' worth of gear experts will be on hand to answer questions.

Pfauter-Maag Cutting Tools, L.P. – 100. This leading international supplier of carbide and high speed steel gear hobs, shaper cutters, shaving cutters, form cutters, CBN grinding wheels, thin film coatings and heat treating services will be showing a variety of products at its booth. On display will be cutters, shapers and hobs for nearly every application, including carbide Wafer® hobs, Wafer® hobs, conventional hobs, Optigash® hobs, form relief milling cutters, shaper cutters, throwaway Wafer® shaper cutters and CBN wheels.

Presrite Corporation – Booth 660. Presrite is a leading provider of high-tech, high-strength forgings. The company will be displaying its line of forged near-net and net-shape gears. Staff will be on hand to discuss customers' special applications.

Profile Engineering – Booth 525. Profile Engineering, Inc., will demonstrate the PC-4 Composite Gear Analyzer® with the latest available data acquisition and computer analyzing software for double-flank composite gear measuring instruments. The PC-4 CGA® is designed with an anti-friction, flexible, mounted trunnion that allows for checking pressures down to zero, which is important on fine pitch, plastic or powdered metal gears. Staff will be on hand at the booth to answer visitors' questions about gear measuring.

Reishauer – Booth 156. Reishauer will be demonstrating its RZS CNC Gear Grinding Machine. The company describes it as designed to grind small to medium sized parts. It is best suited for use where a wide variety of hardened parallel axis gears exist and flexibility and productivity is of particular importance. The company says the machine offers high precision and process stability, high efficiency and superior productivity, ease of operation and durability and high reliability.

Roto-Technology, Inc. – Booth 500. Roto-Technology will be exhibiting the "Century," the newest version of the RC-400-Roto-Check, which is Windows 95-compatible. The company will also be emphasizing fine pitch gear testing by showing the RC-400-6" CNC automatic gear tester, which can inspect tiny parts, including injection molded and powdered metal parts with diametral pitches up to 100. This is accomplished by having the fifth axis rotate the probe. The modular designed system uses a Pentium® computer and has a 3-year warranty.

Saikuni Manufacturing Co., Ltd. – Booth 250. Saikuni will be displaying two machines: the NCG-125 spiral cutter sharpening machine with fully automatic cycles and an automatic cutter position device, power clamping and the ability to sharpen Coniflex, helical pinion and Revacycle cutters; and the NR-8LL rack milling machine with 3 axes and computer controls for heavy stock removal and large feeds.

Schunk Inc. – Booth 631. Schunk Inc. will be displaying its line of ultra high precision hydraulic expansion tooling with T.I.R. better than .00012". This tooling is available in both chuck and arbor styles with a large inventory of standard sizes. Also on display will be a new machinable plastic expansion arbor with 300% higher expansion rate than steel. You are invited to stop by the booth to talk to Schunk technicians and to pick up the company's latest catalog.

Star Cutter Co. – Booth 200. Star Cutter will feature broach sharpening, showing its CNC broach sharpening machine, Model UTG-1200. In addition, booth visitors will see hobs, shaper cutters, milling cutters, thin coatings (TiN, CrN, Ti[C,N] and [TiAl]N), solid carbide tooling, pressure coolant drills and reamers, PCD and PCBN tooling and grinding wheels and diamond gear dressers.

SU America – Booth 214. Samputensili will introduce a new CNC gear grinding machine, which the company says is accurate, flexible and affordable. It is a form grinder which can use ceramic and/or conventional grinding wheels. It can grind internal gears as well as externals and splines and has the latest generation numerical controls. SU's entire line of gear cutting tools, including carbide hobs, will also be on display. During the show, a seminar on gear grinding will also be held off site at no charge. To apply, contact SU's offices at 810-548-7177.

Toolink Engineering – Booth 113. Toolink Engineering is the North American distributor of Königdom hydraulic arbors, chucks and other specialized workholding devices manufactured by König MTM of Wertheim, Germany. See product examples and talk with Toolink engineers about your turning, milling, grinding, balancing, drilling, measuring or inspection applications.

Walker Forge, Inc. – Booth 537. Staff will be on hand at the Walker booth to discuss all your advanced forging needs. Walker has capabilities in near net gear manufacturing, advanced die design, engineering and heat treating. Walker has been manufacturing carbo and ally steel forgings since 1950. ⚙

Tell Us What You Think . . .

If you found this article of interest and/or useful, please circle 209.

QUALITY THAT IS BEYOND PRECISION

Apache AH-64 Main
Rotor Transmission



- Bevel
- Spur
- Helical
- Pinions
- Curvic couplings

52 years of excellence in flight-critical aerospace components, manufacturing AGMA 14 quality gears and pinions.

In-house multi-axis CNC/DNC machining, CAD/CAM center, computerized testing, metallurgical analysis. Purdy is compliant with MIL-Q-9858A and Boeing D1-9000.

The Purdy Corporation • 586 Hilliard Street
Manchester, CT 06040
Tel: (860) 649-0000 Fax: (860) 645-6293
www.purdytransmissions.com

CIRCLE 150

	New for our 10th anniversary year!

...introducing an improved Gage-O-Matic™ gear instrument

...highly accurate, easy-to-use, the new GOM eliminates the mechanical handle, significantly improving accuracy, repeatability and reliability. It includes updated computer interface and rock-solid base. Also look for our Hob Checker to measure rake of flute, radial or hook, and parallelism (using new index plates or your existing 6" ITW or 10" Barber Colman.) And our workhorse-dependable Gear Roller in standard and heavy duty models.

NOW offering complete sharpening and coating services for hobs to 6".



Contact us today for specifications, pricing

<http://www.geartechology.com>

For specifications call (630) 377-2496 or Fax (630) 377-2546

MANUFACTURED GEAR & GAGE, INC.

P. O. BOX 7155, ELGIN, IL 60121

SEE US AT AGMA GEAR EXPO BOOTH #721

CIRCLE 164

SEPTEMBER/OCTOBER 1997 37