

# Products for the Gear Industry



## New Polymer for Brake Actuator From Victrex USA

The Peek™ polymer was chosen as the material for the actuator unit of an electronically controlled parking brake because it allowed TRW of Koblenz, Germany, to develop a high efficiency gearing concept with a transmission ratio of 150:1 within a limited space.

According to Victrex's press release, the polymer provided lighter, quieter running parts than could be achieved with metal.

On this gear assembly, high torque was to be transmitted in a chemically aggressive environment within a limited space. The subassembly sits on the caliper in the rim, a result of which was that the construction space available for the gearing was only 2.08" in diameter and 1.2" in height.

Victrex USA is a manufacturer of high performance polyketones.

For more information, contact Victrex USA Inc. of Greenville, SC, by telephone at (864) 672-7335 or on the Internet at [www.victrex.com](http://www.victrex.com).

## New Gear Oil from Dow Corning

Molykote synthetic gear oils from Dow Corning Corp. can last three times longer than conventional mineral oils while reducing power consumption by as much as 17% in worm gearboxes, accord-

ing to Dow Corning.

In its press release, the company said the oils' longer life is possible due to proprietary anti-oxidant additives and a manufacturing process that eliminates impurities which lead to oil degradation.

These gear oils are designed for use in worm, helical, spur, bevel, hypoid, and rack and pinion applications and meet most equipment OEM lubrication requirements.

For more information, contact Dow Corning of Midland, MI, by telephone at (800) 637-5377 or on the Internet at [www.molykote.com](http://www.molykote.com).



## Flaw Detectors from Agfa NDT

The USM 25 Series of portable flaw detectors from Agfa NDT weighs 3.5 lbs. and has a range of 0.020" in steel for optimum thin-range use.

According to the company's press release, curvature correction has been added to compensate for trigonometric flaw location calculations when performing angle beam inspection on piping and tubular goods. Two independent monitor gates, along with automatic A-Scan freeze for both gates, provides versatility and simplifies thickness measurements.

Multiple-curve DAC with two curves above and below the original recorded DAC curve enhances critical flaw sizing capabilities. An alphanumeric data logger option provides storage for 5,000 thickness readings and the ability to attach 500 A-Scans to

thickness readings.

For more information, contact Agfa NDT of Lewistown, PA, by telephone at (717) 242-0327 or by e-mail at [infolink@agfandtinc.com](mailto:infolink@agfandtinc.com)

## New Gear Factory Software from Chris Watts Design

Chris Watts Design is offering a new software system for AutoCAD 2000, 2000I, 2002 and MDT users. The software, called Gear Factory, includes a dialog box that allows users to create standard or custom 3-D solid models, 2-D entities or 2-D isometric entities of standard involute gears.

According to the company's website, users can specify the pitch, pressure angle, number of teeth, width and insertion point of gears. The software is available for \$79.95 per unit.

For more information, contact Chris Watts Design of Ojai, CA, by telephone at (805) 649-8038 or on the Internet at [www.cwattsdesign.com](http://www.cwattsdesign.com).



## New Sizes for Gearhead Series from Thomson Industries

Thomson Micron L.L.C. added 90 and 115 mm sizes of planetary gearheads. Available in both in-line and right angle models, these gearheads are suitable for applications like material handling, packaging, coil winding, pipe

# Revolution and Evolution



New Micro-Top



New Sigma Series

## Full value, full capacity right where you need it

- Automatic gear, spline, worm and worm gear inspection.
- Compact, portable and shop-hardened.
- Reliable, four-axis accuracy.
- Ideal for manufacturing cells.
- Proven, Windows® based M&M software.

## The ultimate in inspection performance

- 3D probe with quick-change probe assembly.
- Linear motor direct drives for higher speed.
- Four-axis generative motion for optimum accuracy.
- Windows® based software — ideal for all types of gears and gear cutting tools.



Learn how the Micro-top and Sigma Series systems meet your requirements. Call 937/859-8273 or visit [www.mmprecision.com](http://www.mmprecision.com).

Visit us at IMTS at Booth B-7132



# BARIT INTERNATIONAL CORPORATION

**Prompt, Personalized Service!**

### Custom Tools

- Hobs .8-50 DP
- Shaper Cutters
- Milling Cutters
- Shaving Cutters
- Broaches

### Stock Items

- DP and MOD
- Hobs, 1DP and finer
- Shaper Cutters



3384 COMMERCIAL AVE. • NORTHBROOK, IL 60062 USA  
 TEL: 847-272-8128 • FAX: 847-272-8210  
 Website: [www.barit.com](http://www.barit.com) • E-mail: [people@barit.com](mailto:people@barit.com)



## LeCOUNT EXPANDING MANDRELS

**WANTED?**  
**MORE ACCURACY**  
**MORE EXPANSION**  
**MORE VERSATILITY**  
**LONGER LIFE**  
**AND LESS COST?**



**THE ANSWER FOR 150 YEARS.**

### LeCOUNT, Inc.

12 Dewitt Dr. • PO Box 950 • White River Jct., VT 05001 U.S.A.  
 Tel: (800) 642-6713 or (802) 296-2200 • Fax: (802) 296-6843 E-mail: [lecount@sover.net](mailto:lecount@sover.net)  
 Website: <http://www.lecount.com> (includes product specifications)

## PRODUCT NEWS

bending, machine tools, overhead gantry systems and injection molding machines.

With a standard four arc-minute backlash and crowned helical carburized steel gears that are hardened to HRC 60 minimum and flank-finished after heat treating, the gearheads are made to operate quietly. According to Thomson's press release, the gearheads' strength and torsional rigidity result from machining both the output housing and the helical internal gear from a single piece of high strength steel.

For more information, contact Thomson Industries Inc. of Port Washington, NY, by telephone at (516) 883-8000 or by fax at (516) 883-9039.

### New Helical Shaft Mount Reducer

Emerson Power Transmission introduced a newly redesigned Browning helical shaft mount reducer.

The new shaft mount line incorporates a single tapered bushing mounting system and a barrier steel system.

The single tapered bushing mounting system is reversible and allows the bushing to mount from either side. It includes a tapered stabilizer ring that minimizes wobble and resists fretting corrosion. According to EPT's press release, this system reduces shaft binding found in two-bushing systems and can replace any competitive single- or double-bushing shaft mounts.

The barrier seal system combines a v-ring face seal, grease-filled labyrinth and rotating outer finger to provide triple protection against contamination and oil seal damage.

For more information, contact Emerson Power Transmission of Ithaca, NY, by telephone at (606) 564-2084 or online at [www.emerson-ept.com](http://www.emerson-ept.com).

### New Generation of CNC Grinders

The Parker Majestic Division of Penn United Technology announced the development of a new generation of CNC cylindrical, rotary and profile shift grinders.

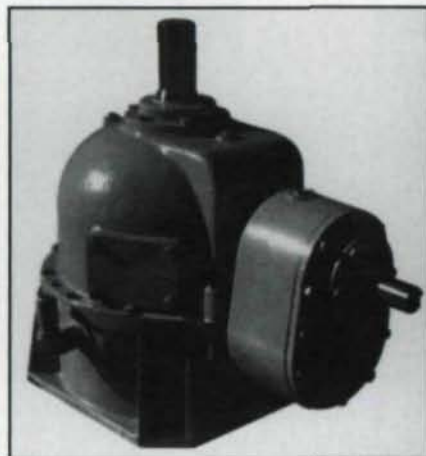
The Liberty Series are Siemens 810-powered machines with a 12" x 10" or a 14"

x 30" capacity. Designed to simplify file management and programming, the series can be configured as an ID, OD or combination grinder. Additionally, it features a 5 hp OD motor and 1.5 hp ID motor.

The Revolution Series contains CNC rotary grinders with a 14" maximum diameter capacity chuck. These grinders can be configured with a vertical or horizontal grinding spindle and are switchable from one to the other. Grinders have the capacity to grind rings and spacers flat within 0.00001" and are menu driven.

The Freedom Series of CNC profile surface grinders is comprised of 3-axis Siemens 810- and 840D-powered machines with an 8" x 18" table capacity and an optional CNC over-the-wheel form dresser. These grinders can also be configured with a CNC rotating or indexing fixture.

For more information, contact Penn United Technology of Saxonburg, PA, by telephone at (866) 572-7537 or on the Internet at [www.parkermajestic.com](http://www.parkermajestic.com).



### New Universal Cooling Tower Drive from Philadelphia Gear

A new universal cooling tower drive from Philadelphia Gear Corp. is designed to replace cooling tower drives and spare parts.

Available in two sizes, the universal cooling tower drive can be used instead of other drive models, with minimal modification. It contains spacer plates and change gears.

According to the company's press release, base plate space adapters make the drive modifiable to most other legacy cool-

ing tower applications by adjusting the height of the output shaft. Also, the location of the change gears was designed so that spiral bevel gears within the main housing do not have to be modified to change ratios.

Numerous gear ratios can be achieved by using different sets of change gears external to the main housing. Therefore, the company says, the drive can be installed in 24 hours with only the smaller change gears needing to be installed when the unit is ordered.

For more information, contact Philadelphia Gear Corp. of Norristown, PA, by telephone at (800) 766-5120 or on the Internet at [www.philagear.com](http://www.philagear.com).

**Tell Us What You Think . . .**

Visit [www.geartechnology.com](http://www.geartechnology.com) to

- Rate this column
- Request more information
- Contact companies mentioned
- Make a suggestion

Or call (847) 437-6604 to talk to one of our editors!

## For the Best in High-Speed Precision Ground Gears



Call Fairfield . . .  
Your one-stop shop for gear design and manufacturing!

- Technologically advanced machinery . . . Reishauer RZ362, Niles Kapp ZP08, ZP12, and many others.
- Competitive prices
- Fast delivery
- High quality
- Responsive
- Highly experienced

**Call Now!**

Our experienced engineering team is ready to assist you in gear design or problem solving.

**FAIRFIELD**  
GEARED FOR EXCELLENCE

Fairfield Manufacturing Company, Inc.  
Lafayette, IN 47903-7940 USA  
Telephone (765) 772-4000  
FAX (765) 772-4001  
[www.fairfieldmfg.com](http://www.fairfieldmfg.com)

