

# PRODUCT NEWS

Welcome to our Product News page. Here we feature new products of interest to the gear and gear products markets. To get more information on these items, please circle the Reader Service Number shown. Send your new product releases to: *Gear Technology*, 1401 Lunt Avenue, Elk Grove Village, IL 60007, Fax: 847-437-6618.



## Benchtop Grinding/Lapping/Polishing Machines

Struers offers three new benchtop machines for grinding, lapping and polishing. LaboPol™-21 is a two-disc, single-speed (300 rpm) machine, which is a successor to the Struers Knuth-Rotor™. LaboPol-5 features variable speeds from 50–500 rpm, controlled by an electronic servo system that keeps speed constant regardless of load. LaboPol-1 is a single-speed (250 rpm) basic model. All three machines can be automated by mounting a LaboForce™ specimen mover on them.

Circle 300



## Double-Flank Gear Roll Tester

Mahr Corp. announces its new DF1 890 series of double-flank gear roll testers. The design uses a leaf spring transmission for precise measuring force adjustments to 0 oz., which the company says is particularly important in the measuring of plastic or powdered metal gears. The proprietary WinGear® software is compatible with Windows 95. Standard tests include total composite, tooth-to-tooth and radial runout.

Tests for radial center distance or size variation and calculation of torsional backlash are available as options.

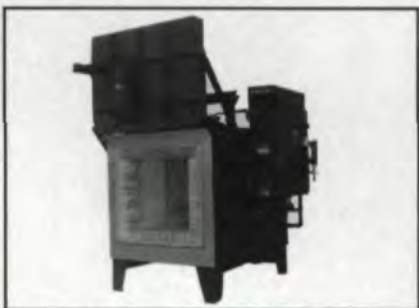
Circle 301



## Non-Lubricated, Cast Gears

Intech Power-Core™ gears are made in a unique process wherein a composite material is cast onto a knurled metal core. The manufacturer says they are well-suited for applications in which noise, moisture or corrosive chemicals are present. The metal core permits a secure attachment to a shaft, with connection made through the keyway. For flanged connections, a bolt circle is designed into the metal to achieve full clamping load in the connecting bolts. Available in a variety of sizes and materials, including stainless steel and aluminum.

Circle 302

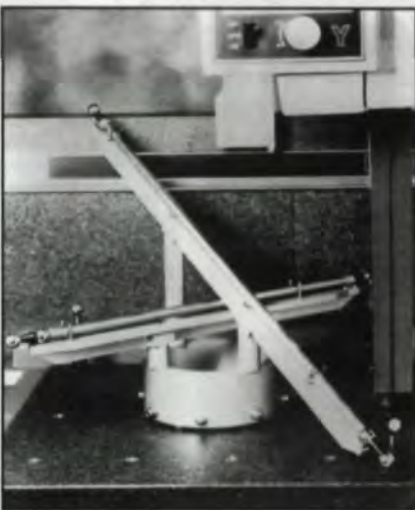


## Heavy Duty Box Furnace

The Grieve No. 746 is a heavy duty box furnace with inert atmosphere construction which is currently being used for heat treating carbon parts. Heat input of 63.9 kW provides a maximum oper-

ating temperature of 2000°F. The work space dimensions measure 30" wide x 60" deep x 30" high. Insulation of this furnace consists of 6 1/2" thick floors with 4 1/2" thick firebrick and 2" thick block insulation. The heating elements are high-temperature coiled wire supported in lightweight cast ceramic fiber insulation with excellent thermal shock resistance and low heat retention. The vertical lift door is insulated with a 2300°F ceramic fiber blanket. The furnace is equipped with a NEMA 12 dust-tight, oil-tight control panel.

Circle 303



## The Ball Bar Thing

Available from Bal-tec Division of Micro Surface Engineering, the Ball Bar Thing is a new approach to interim checking for CMMs. It uses two ball bars for more data points at each index and can be indexed to eight fixed and repeatable positions. Its simple construction—no air lines, valves or cylinders—makes it inexpensive. It also uses standard off-the-shelf ball bars and kinematic hardware. The Ball Bar Thing meets or exceeds all quality requirements as outlined in ANSI B89.1.12M for the "Performance Evaluation of Coordinate Measuring Machines."

Circle 304

**Chemical Deburring Process**

Surface Technology, Inc. introduces DEBURR 1000, an electroless chemical process for removing burrs on steel parts without distortion. Using short immersion times, the process severs burrs from the workpiece at their bases. The burrs then dissolve in the bath. Longer immersion times polish, shape and round the edges of precision parts. According to the company, the process also leaves parts clean and suitable for immediate use or subsequent surface finishing operations.

Circle 305

**TRIM® Straight Oil & Additive**

Master Chemical Corp. has added two new products to its TRIM® line of cutting and grinding fluids. TC 212 defoamer is designed not to float out or to be filtered out as part of the typical machining and/or coolant recycling application. This non-silicone defoamer is formulated to become an active component of the coolant working solution. It combats most foaming in chemical emulsions and semi-synthetic products. OM 303 is a heavy duty, chlorine-free straight cutting oil designed for use in conventional and Swiss-style screw

machines, high-speed turning centers and high-performance, multi-station machines. Both products are available in 5-gallon pails, 54-gallon drums, bins and tank wagons.

Circle 306



**Calibration Instrument**

Fred V. Fowler Co. introduces a new Fowler/Trimos calibration instrument combining horizontal and vertical orientation to provide checking of all types of gages. The Fowler/Trimos THV has a maximum measuring range for all internal and external dimensions of 4" (100 mm) and, by virtue of its multiple accessories, can check plug, ring, thread plug gages, dial and lever indicators as well as precision manufactured parts. Its Heidenhain measuring system assures high accuracy and repeatability of .000005"  $\pm 2s$  (.1 $\mu$ m).

Circle 307

**Gear Dressing Products**

Dr. Kaiser offers a product line of rotary diamond dressers for gear grinding applications. Solutions exist for most online and offline dressing systems, including Reishauer, Fässler, Gleason, Høglund, Normac, GII Solutions, Liebherr, Csepel and Niles. Dr. Kaiser produces direct-plated and sintered construction in a full range of modules and pressure angles. Special modifications can be designed from customer gear data.

Circle 308

**BUILDING ON EXCELLENCE...**

*Quality Is A Constant*  
Introducing two new products that will enhance your production capabilities and improve product delivery.

**NEW**  
CNC Grinders (Vertical)

**NEW U-Axis**  
U-Axis Machining Centers (Horizontal and Vertical)

CNC Gear Hobbers and Hob Sharpeners

**NEW**  
CNC Turning/Mill - Turn Center

**IKEGAI**  
IKEGAI AMERICA CORPORATION  
2246 North Palmer Drive, Suite 108  
Schaumburg, Illinois 60173  
TEL (847) 397-3970 FAX (847) 397-7535

Dealers Inquiries Welcome

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