

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.



Large Diameter Gear Cutter

The Gleason Works has introduced the Phoenix® 1000HC hypoid cutting machine for production of precision bevel and hypoid gears up to 39" (1000 mm) nominal diameter (face milling with 5:1 ratios). The machine also offers flexible, fully automatic setup and operation, CNC control of all 6 axes for part-to-part and job-to-job repeatability, and a cast iron frame and special roller-style linear bearings for maximum stiffness and damping characteristics.

Circle 300



Spline Roller

West Michigan Spline, Inc. has introduced a new line of spline rolling machines. The Models 24, 36 and 48 spline rollers have been redesigned to provide for superior strength and eliminate tie bars. Their one-piece "C" frame welded construction is thermally stress relieved. The machines have externally based coolant tanks, filters and pumps designed with preventive maintenance in mind.

Circle 301



Dual-Head Grinding Machine

Mutschler Technologies introduces the Model GR 202 bench-top, dual-head grinding machine for chamfering and deburring two surfaces simultaneously. The compact machine is well-suited for grinding a variety of gears including helical, spur, angle, pinion and spiral bevel. It features electronic and pneumatic control panels and a programmable counter. Holds parts up to 28" in diameter and 100 lbs. Available with a manual 3-jaw chuck or an optional self-centering air chuck.

Circle 302

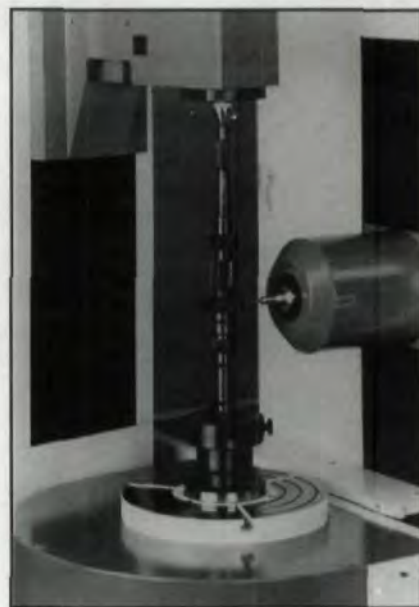


500°F Drawer Oven

The #784 is a 5-tier, electrically heated drawer oven from Grieve. It can stress relieve parts to a maximum operating temperature of 500°F. It has a 24

kW total power input, installed in Incoloy-sheathed tubular heating elements. Its work space is 50" wide x 26" deep x 38" high overall. Each drawer measures 44" x 10" x 3.5". It also has a digital indicating temperature controller, a manual reset excess temperature control with separate contactors, an SCR power controller and a 700 CFM, 3/4 hp recirculating blower.

Circle 303



CNC Gear Measuring Centers

Klingenberg introduces its new PNC 33 Gear Measuring Center. The small-footprint, 13" capacity, 4-axis machine accommodates workpieces up to 102". The machine can be used on spur and helical gears, spiral bevel gears, rotors and camshafts and tools including shaper cutters and hobs. It has a multi-axis 3-D tracer head that can measure non-gear components, a 3-D digital probe with high-resolution Heidenhain glass scales and a special collision protection system. Other features include a new machine control, networking possibilities, software diagnostics via modem and optional manual profile and lead checks.

Circle 304

COLD FORMED SPLINE ROLLING

MICHIGAN AUTOMATIC TURNING INC.

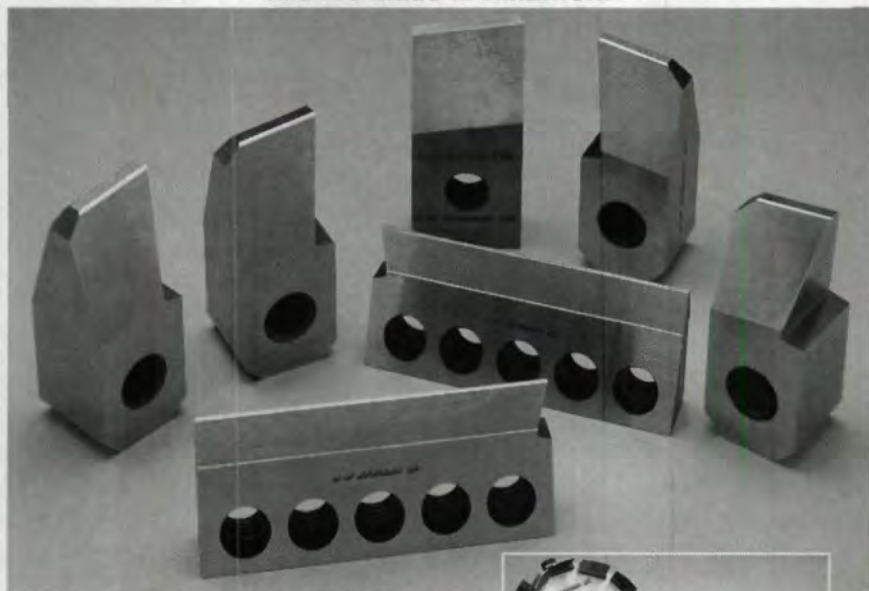
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CIRCLE 121 on READER REPLY CARD

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We also can manufacture *new* spiral cutter bodies in diameters of 5" through 12" at present.

A/W can also supply roughing and finishing cutters, hardware and replacement parts for most 5"-12" diameter bodies.

Whether it's service or manufacturing, consider us as an alternative source for replacement parts and hardware as well as bodies and cutters.

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NEW! Straight Bevel Cutters.



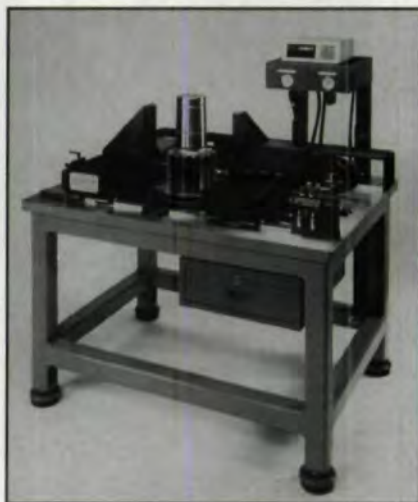
**A/W
Systems
CO.**

Royal Oak, Michigan 48067

Tel: (810) 544-3852 • Fax: (810) 544-3922

CIRCLE 122 on READER REPLY CARD

PRODUCT NEWS



Over Ball/Pin Size Measurement System

Manufactured Gear & Gage introduces the industry's first 1,000-pound capacity over ball/pin size measurement system. The Heavy Duty Gage-O-Matic Model G12-1001 provides quick and easy gear or spline size inspection of heavy parts. The base machine uses a linear scale with digital readout for fast setups and convenient operation. Accuracy is 0.0001" (0.0025 mm) with a resolution of 0.00005" (0.0012 mm) and repeatability of ± 0.0001 " (0.0025 mm). External capacity is max. 12" O.D.; between centers up to 20" length; face up to 8" wide; 21 D.P. max. at 6" P.D.

Circle 305



Honing Mandrels

Sunnen introduces its new KR series of honing mandrels with retractable stone assemblies for greater efficiency in bore sizing and finishing operations. Easier loading and unloading of parts and fewer marks and scratches. Available on the KR6 through KR20

(Continued, page 42.)



GEARS!

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(Continued, from page 40.)

series (.185"-.744" I.D.), the retractable mandrels and stone assemblies also will be offered in longer sizes designated as the BLR series.

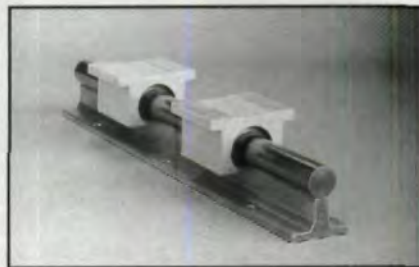
Circle 306

New TiAIN Coatings

Multi-Arc Inc. announces an improved ION BOND® TiAIN coating for titanium & nickel-based alloys, stain-

less steel and cast materials. The company says the new coating offers twice the life of its first-generation TiAIN coating. Called ION BOND 17-II, the coating is ideal for high speed machining, dry hobbing and other machining operations where high temperature is generated at the point of cut. It also offers excellent ductility, which makes coated tools less susceptible to chipping when used for interrupted cutting.

Circle 307



Bearing Assembly

Pacific Bearing Company has introduced a new preassembled shaft, rail and bearing assembly that the company says significantly eases installation and reduces downtime. The assembly is made of hardened steel shafting with aluminum support rails. Either two single or one twin open pillow block are available at no extra cost. The assemblies are available in all standard shaft lengths and diameters as well as custom lengths.

Circle 308

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Quick Change Tool System

Madison Cutting Tools introduces the Madison-Hektobore® quick change tooling system. In this system, only the lightweight cutting head portion of the tool needs to be replaced when changing size or operation sequence. Four master bar sizes handle the system's entire cutting range from .985" to 23.625". Thirteen cutting heads and six pairs of cutting slides for a broad range of rough and semi-finished boring operations with a minimum tool inventory. Comes with a precision slide and single-point cartridge fitting on the same head for finish boring.

Circle 309

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CIRCLE 124 on READER REPLY CARD