

# Products for the Gear Industry



## Gear Inspection System from American Stress Technologies

The Gear Scan Inspection System from American Stress Technologies is an off-line audit system that monitors residual stress from manufacturing processes and detects grinding damage.

According to the company's press release, spur, helical and spiral bevel gears can all be tested by programming the robotic arm for that specific gear. The unit requires manual loading and unloading of the test piece. A sensor scans the ground surface and sends test information to a ROLL SCAN central unit.

For more information, contact American Stress Technologies of Pittsburgh, PA, by telephone at (412) 963-0676 or on the Internet at [www.ASTresstech.com](http://www.ASTresstech.com).

## New Hobbing Machine from Bourn & Koch

The 100H Series II Hobbing Machine from Bourn & Koch incorporates the features of the 200H/400H Series II machines.

Standard features include six-axis CNC controls, radial in-feed, axial feed, hob shift, hob spindle, work spindle, and hob swivel.

New features include 6" of hob shift, standard NUM 1050 CNC controller containing NUM digital drives with absolute encoders, conversational software, 2,000 rpm hob spindle with 5 continuous hp and 10 maximum peak hp, a full machine enclosure with stainless steel sloped guarding for wet or dry

cutting capabilities, no hydraulics, an easy placement tail center assembly with adjustable clamping force up to 500 lbs. and 3" stroke live center.

According to the company's press release, the 100H accommodates parts with a maximum swing diameter of 10" and a cutting diameter of 4.5".

For more information, contact Bourn & Koch of Rockford, IL, on the Internet at [www.bourn-koch.com](http://www.bourn-koch.com) or by e-mail at [bournkoch@att.net](mailto:bournkoch@att.net).

## New Hobbing Machine from Liebherr

The LC 120 hobbing machine from Liebherr is a new generation series based on components of other successful hobbers.

According to the company's press release, the redesigned cutting head represents the core of the machine evolution. Speed and torque of 6,000 rpm at 18 kW are realized by means of new direct drives that enable the use of both HSS and hard metal tools in wet and dry processes.

In addition, a new bed design guarantees virtually complete swarf removal during dry processing by means of an integrated worm conveyor. Cutting speeds for cermet tools reach 1,000 m/minute.

This machine can be enhanced and become multi-functional through use of an add-on unit for the pressure deburring of gears during mass production.

For more information, contact Liebherr by e-mail at [amontag@klingenbergs.com](mailto:amontag@klingenbergs.com) or on the Internet at [www.lvt.liebherr.com](http://www.lvt.liebherr.com).

## Carbide Burs from TJT Sales

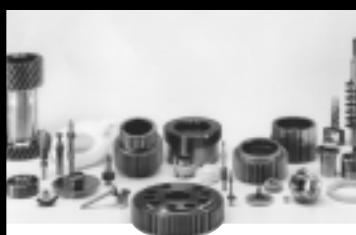
The Aggressor carbide burs from Grobet File Co. have been redesigned for use in the gear industry.

Double-cut burs were engineered for

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**Bengal Industries** is a precision custom injection molder specializing in gears and engineered plastic parts. Bengal serves a wide variety of markets including automotive, medical, industrial, HVAC and children's products.



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## PRODUCT NEWS

heavy duty applications with a unique tooth design to remove more material per hour, according to the company's press release.

Burs are more durable and resistant to chipping because of the width and depth of the teeth. Wider teeth make longer chips that break up easily, and the tooth profile is less prone to filling up with those chips.

For more information, contact

Grobet's distributor TJT Sales of Cathedral City, CA, by telephone at (760) 322-5279 or by e-mail at [thomas.saccuci@cs.com](mailto:thomas.saccuci@cs.com).

### Florida Drives & Gearmotors Expands Facility, Product Line

Florida Drives & Gearmotors is expanding its gear parts division with the purchase of a facility to offer new,

used and obsolete replacement parts and components for manufacturers of reducers, gearmotors, adjustable speed drives and related products.

According to the company's press release, they are also expanding their product line through the purchase of Hauser Development Corp.'s right angle bevel gear drives line. Used primarily in agricultural, marine and heavy construction industries, this line has units available in two, three, and four shaft arrangements at 45° and 90° assemblies. Drives are available with or without flanges and with spline or standard shafts.

For more information, contact Florida Drives & Gearmotors of Tampa, FL, by telephone at (800) 940-GEAR or on the Internet at [www.herculesgear.com](http://www.herculesgear.com).

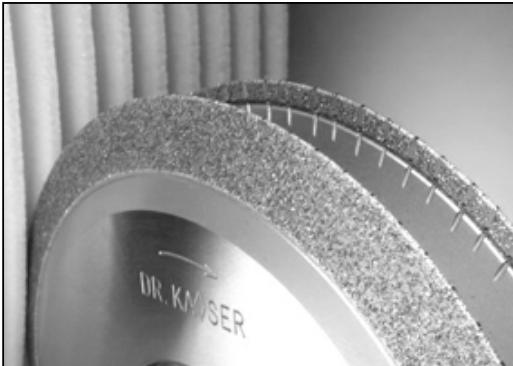
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### New Whirling Machine from Leistritz

The PWM 200 whirling machine from Leistritz is designed for quick set up and change-over times.

According to the company's press release, features include a simple operation with interactive programming, a compact design, central lubrication system for ball screws and guideways, a vertical bed arrangement for chip removal, and automatic loading and unloading systems.

In addition, the patented tooling system includes screw-mounted inserts and a positive stop insert location. CBN inserts for cutting hard material are available up to 65 HRC. Regrindable carbide and CBN inserts are available, and these inserts can be reground up to 15–20 times.

For more information, contact Leistritz Corp. of Allendale, NJ, by telephone at (201) 934-8262 or on the Internet at [www.leistritz.com](http://www.leistritz.com).

### New Hobbing Machines from Mitsubishi

The new GE line of hobbing machines from Mitsubishi allows for dry hobbing on a vertical platform.

## PRODUCT NEWS

According to the company's newsletter, this product converts from dry to wet cutting by the flip of a switch. Other features include a modular floor plan and easily adapted automation, among other high-speed features.

For more information, contact Mitsubishi Gear Center of Wixom, MI, by telephone at (248) 669-6136 or by visiting the company's website at [www.mitsubishigearcenter.com](http://www.mitsubishigearcenter.com).

### New Blade Profile Grinder from Gleason

The new BPG blade profile grinder from Gleason improves sharpening operations on bevel cutter blades though reduced cycle times and ease of use, according to the company's press release.

By combining Gleason's Quikedge grinding process with high speed, flexible automation, the BPG is designed to reduce floor-to-floor times and the cost of blade resharpening. The process features faster stock removal rates while reducing wheel wear. According to the company's press release, the process also offers fast and repeatable results for stick-type blades of high-speed steel and carbide materials.

In addition, machine throughput is improved by faster automation. Other features include a double gripper gantry system for automation of blade load and unload as well as a direct drive grinding wheel spindle and an on-machine unit that dresses wheels in one minute or less.

For more information, contact Gleason Corp. of Rochester, NY, by telephone at (585) 473-1000 or on the Internet at [www.gleason.com](http://www.gleason.com).

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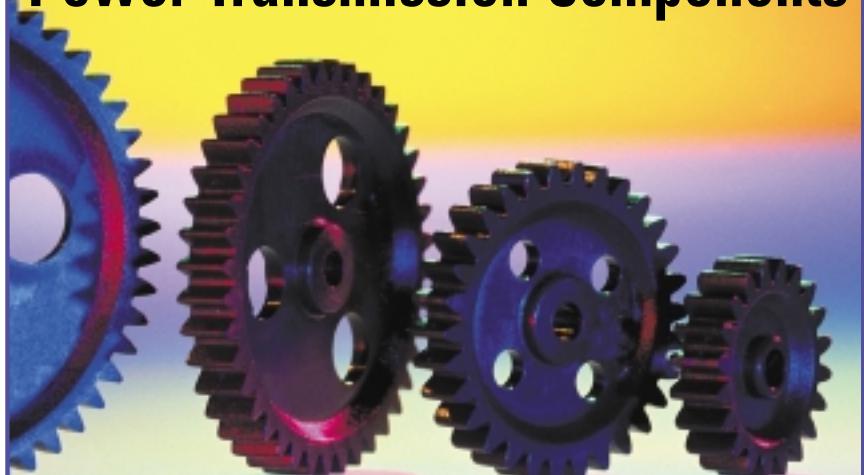
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