

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.



New 2-Speed Machine Tool Gearbox

"Built-in" RAM-MSD 2-speed gearboxes, available from Andantex USA, Inc., are integrated in-line between the water-cooled motor and the spindle inside of the machine tool's RAM. These units extend the constant power speed range of the motor, providing high output speeds (8,000 rpm) for finishing aluminum and high torque at low speeds for hogging out steel or cast iron. Standard ratios are 1:1, and reductions range from 2.5:1 to 5:1.

Other design features include a round, water-cooled housing, a hollow through bore, low backlash, and compact, high-quality planetary gearing to insure minimum vibration, quiet and cool operation. The integration of the compact, lightweight gearbox into the RAM enables rapid Z-axis acceleration and minimum chip-to-chip tool change times. For more information, contact Andantex at (800) 713-6170 or visit their Web site at www.andantex.com.

Circle 300

Two New Items from Ogasawara

The GRT-04 Gear Rolling Tester is designed to measure the composite error of fine pitch gears relative to the function of center distance oscillation during dual flank meshing between the test piece and the master gear. This machine is suitable for either the lab or the shop floor. The unit can also be used to measure other gear products such as plastic gears and motor shaft gears up to a foot in length. Center distance deviations are detected continuously with the GRT-04's small

displacement detecting system, which utilizes a differential capacitance device for frequency modulated (FM) signal output. With optional data analyzing software, you can classify your gear products to meet with a specified gear accuracy such as AGMA, ISO or DIN.

The new HBS-1520 Hob Cutter Sharpening Machine is the result of a collaboration between Ogasawara, which designed the machine, and Saikuni, which built it. Using Ogasawara's optimal dressing method, the HBS-1520 can achieve both a mirror finish on the cutting surface and extreme geometrical accuracy. Carbide hobs can be sharpened using a diamond wheel and helical flutes can be ground with the optional spindle head. The machine is easy to set up and operate and it can reduce grinding costs with its automatic grinding procedures.

For more information, contact Ogasawara Precision Hob Lab, Ltd. at +(81) 44-877-3511 or visit their Web site at www.og-pl.co.jp. You may also contact their American representatives, Russell, Holbrook and Henderson, Inc., at (201) 670-4220 or visit their Web site at www.tru-volute.com.

Circle 301



New RV Gear Reducer from Harmonic Drive

Harmonic Drive Technologies introduces the Rotary Vector (RV)-C hollow shaft gear reducer. The RV-C gear is open through the center, allowing vacuum lines, wiring harnesses, concentric shafting and cooling lines to be run through it. Hole

sizes range from 31 mm (1.2") to 138 mm (5.4"). The RV-C also has specially designed, built-in output bearings that support large thrust and overhung loads.

The RV-C is one of three heavy-duty RV power transmission configurations manufactured by Teijin Seiki and supplied by Harmonic Drive Technologies. These are precision drives that offer high-ratio gear reduction in a compact design. RV drives offer very high torsional rigidity and an overload torque capacity of 500% of the unit's rated torque. Total lost motion from all sources including backlash, spring rate and hysteresis, is limited to one arc-minute. For more information call (800) 921-3332 or visit Harmonic Drive Technologies' Web site at www.harmonic-drive.com.

Circle 302



Rotary Diamond Dressing Roll Holds Tip Longer

Norton Company introduces a line of patent-pending precision rotary diamond roll dressers that maintain tip geometry longer, when CNC-profile-dressing intricate forms into conventional and superabrasive wheels.

The new Lap-Free BPR Profile Dressing Rolls are different from conventionally manufactured infiltrated and plated profiling rolls, which often use polycrystalline diamond (PCD) or natural diamond material. They are designed not to require relapping and are available in forms with included angles not previously available for CNC profile dressing.



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With the elimination of relapping, the previously difficult task of estimating roll life now requires only measuring the roll diameter while it is mounted on the machine. Field tests have shown that the Lap-Free BPR Roll not only holds its tip radius longer, but lasts nearly three times longer than a conventional PCD roll in production dressing applications. For more information contact Sue Auburg at Norton Company, (800) 446-1119 or visit their Web site at www.nortonabrasives.com.

Circle 303

Higher Productivity and Lower Cost with New Aerospace Alloy

Carpenter Project 7000® 15Cr-5Ni stainless steel (UNS S15500) has been developed by Carpenter Technology Corp., Reading, PA, to provide superior machinability while meeting all the requirements of Aerospace Material Specification AMS 5659 covering bars, wire, forgings, rings and extrusions. The new alloy, offering potential for increased capacity and longer tool life, is available as a "drop-in" replacement for conventional 15Cr-5Ni stainless in applications where improved machining productivity is desired.

Possessing high strength and hardness, along with excellent corrosion resistance, the new precipitation hardening stainless alloy is a candidate material for rod-end bearings, a variety of aircraft structural components and some engine parts. The new alloy may be considered a more machinable version of the standard 15Cr-5Ni stainless, which has been used for industrial applications such as gun barrels, valve parts, fittings and fasteners, shafts, gears and process equipment. For additional information or a technical data sheet, contact Jim Dahl by phone at (610) 208-2235 or by e-mail at jdahl@cartech.com.

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