

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 UltraTrue Planetary Gearhead

Thomson Micron, LLC has expanded its line of ultra-precision planetary gearheads with the UltraTrue Size 220 Planetary Gearhead, which offers a torque capacity of over 4,000 ft.-lbs.—the highest torque capacity in its size. The output housing and the helical internal gear are machined from a single piece of steel for high strength and torsional rigidity. Helical crowned planet gears make for the smoothest, whisper-quiet operation available in a planetary gearhead.

This new gearhead features a maximum backlash of 4 arc-minutes, ratios from 4:1 through 100:1, and a 75 mm output shaft for maximum torsional stiffness. It is ideal for applications such as coil winding, pipe bending, packaging, machine tools, overhead gantry systems, and injection molding machines. For more information, contact Thomson Micron at (516) 883-8000 or log onto www.thomsonindustries.com.

Circle 300

Full 3D Transmission Analysis-Led Design System

Romax Technology announces the immediate availability of RomaxDesigner R1.8. This latest release of Romax Designer extends the modeling tools to provide a complete powertrain capability from gearbox input to axle driveshafts, including non-parallel shaft arrangements. Based on a powerful, object-oriented “analyze as you design” approach, users can now design gearboxes and axle systems that incorporate perpendicular shaft arrangements.

RomaxDesigner’s highly productive environment means that as the user lays out the design using components, the analysis model is automatically assembled behind the scenes. The user defines the component connectivity from which analysis boundary conditions are derived. Consequently, static, dynamic and life analysis of shafts, bearings and

gears is available as soon as the design is defined. Analysis of forces and deflections is provided by a hyperstatic non-linear solution algorithm that completes stress and life analysis of complex systems subject to realistic life cycle loading in a few minutes.

For more information, contact Romax Technology Ltd. at (+44) 1636-61-4000.

Circle 301

NEVER AGAIN!



Dry Hobbing From Mitsubishi: Twice The Productivity, Three Times The Tool Life, And A Cleaner, Healthier Shop.

Now you can cut gears in a way that’s totally clean and dry, with great precision, in about half the time, meaning a big reduction in cost per manufactured part — and with three times the tool life. It’s dry hobbing from Mitsubishi. You’ve got to see it.



MITSUBISHI MACHINE TOOLS

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www.mhi-mmt.com



CIRCLE 198

New Cylindrical Grinder from Mitsubishi

The new R230 cylindrical grinder from Mitsubishi combines an innovative PC-based control with manual hand-wheel operation for machining short runs of different workpieces. This allows machinists with little CNC experience to be introduced to computerized controls, and makes the R230 a low-cost alternative to full CNC grinding.

No NC knowledge is required to operate the R230. Its easy-to-use PC-based control features an innovative teaching/playback function. This replaces the complex programming and tedious debugging necessary for CNC operations. By selecting the teaching mode, the R230 memorizes the hand-wheel movements made by the operator when creating the grinding sequence for the first workpiece in a lot. The sequence

is completely documented by the R230's control and can be reviewed by the operator in order to make any edits. The grinding program is stored in the control's memory and can be accessed at any time. To grind the remaining workpieces in a lot, the playback mode is selected and the R230 automatically repeats the grinding sequence exactly as it was manually run the first time. There's no need for further hand-wheel operation. The PC-based control stores up to 30 grinding applications and allows 10 grinding steps per application.

For more information on the R230, contact MHI Machine Tool U.S.A. at (630) 860-4222 or log onto www.mhi-mmt.com.

Circle 302



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CIRCLE 201

New Heavy Duty Synthetic Coolant

Rustlick PowerChip 2000, manufactured by ITW Fluid Products Group, is a new biostable, heavy-duty synthetic coolant for machining, grinding and sawing. PowerChip 2000 provides excellent lubricity, rust protection and low foaming. Its superior way-lube rejection leads to cleaner coolant and longer sump life. In addition, PowerChip 2000 has exceptional biostability, providing long-term sump life with proper maintenance.

PowerChip 2000 is a transparent, blue solution that allows easy viewing of the workpiece. Its non-chlorinated E.P. additive provides extended tool life. Safe for most metals, except magnesium, it works well with titanium, Inconel and stainless steel. PowerChip 2000 is also suitable for hard-to-machine aluminum and other alloys. It can be used in hard water applications and comes in 5-gallon pails and 55-gallon drums. For more information, contact the ITW Fluid Products Group at (800) 452-5823.

Circle 303

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If you did not care for this column, circle 269.

If you would like to respond to this or any other article in this edition of *Gear Technology*, please fax your response to the attention of Charles Cooper, senior editor, at 847-437-6618 or send e-mail messages to people@geartechnology.com.