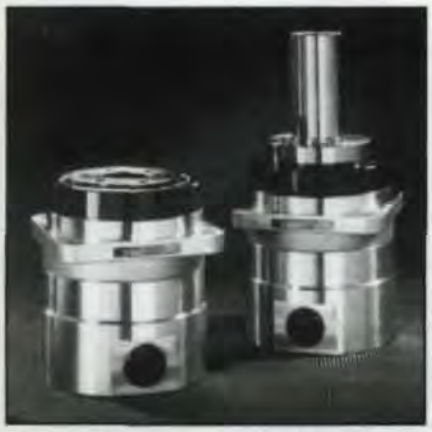
New Gearheads, Motors, Worm Gears, Gear Drives & Machines



New Planetary Gearhead from HD Systems

The new Harmonic Planetary HPG Series from HD Systems incorporates a ring gear design to reduce backlash to less than one arc minute for the life of the gearhead. This eliminates the backlash creep commonly associated with conventional planetary gearing.

Available in both flange output and shaft output configurations, applications for this product include packaging, automation and machine tools.

The flange output model is suitable for turntable applications because the flange is supported by a precision cross roller bearing that provides low run-out and high concentricity.

For more information, contact HD Systems Inc. of Hauppauge, NY, by telephone at (631) 231-6630 or by e-mail at *info@HDSI.net.*

New Right Angle Planetary Gearmotors and Reducers from Groschopp

Groschopp's new right angle planetary products are designed for space-saving applications. A right angle attachment makes it possible for the gearmotor to fit into tight places.

According to Groschopp's press release, these products feature sun gear design and equal load sharing. Floating sun gears are designed to provide true involute action, which occurs when the rolling motion between the mating gears is complete. The benefit of this complete meshing of gears is longer reducer life since less internal gear slippage means fewer broken gear teeth.

Other features include heat-treated miter gears for low noise and high load capacity. Single and double output shaft designs are available. A synthetic gear oil is used to carry heat away from the gears, reducing wear and increasing efficiency and longevity.

For more information, contact Groschopp of Sioux Center, IA, by telephone at (800) 829-4135 or on the Internet at *www.groschopp.com.*

Worm Gears Without the Need for Grinding from Leistritz

Worm gears can be constructed by Leistritz Corp. without needing grinding due to advances in machining and heat treating techniques. The company says the procedure involves soft cutting done to finish tolerances, and the operation is stress-free to eliminate possible distortion during induction hardening or vacuum/atmospheric heat treating.

According to Leistritz's press release, the company's whirling machines form the foundation for soft cutting at finish tolerances. These machines produce parts to AGMA Grade 6 specifications with lead, pitch and profile tolerances of less than 0.0005".

The company says that because whirling does not require undercuts at the ends of the worm area, the worm face width can be optimized and the overall shaft length reduced. Eliminating undercuts also negates the need for deburring worm teeth ends at each undercut.

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

Drop-In Gear Drives from Falk Renew

Falk Renew is now offering remanufactured gear drives that are dimensionally identical to original equipment. This eliminates foundation changes and modifications.

According to the company's press release, Falk reviews the drive nameplate information and researches the original records to ensure an identical replacement. A complete drive assembly—including base plate, couplings and guards—is supplied, as are new bearings, seals and seal surfaces, gears and shafts.

For more information, contact Falk Renew of New Berlin, WI, by telephone at (262) 317-1420 or by e-mail at *renew@falkcorp.com.*

CNC Gear Shaping Machine from Mitsubishi

The ST40CBC from Mitsubishi Gear Technology Center has been modified to include a programmable lead guide feature. According to Mitsubishi's press release, this permits helix angles up to +/-36° to be shaped without the need to install expensive hydrostatic guides.

With programmable stroke length up to 135 mm, the machine's latest version has been enhanced with optional quick return stroke. Mitsubishi says, depending on the stroke length used, savings up to 35% in cycle times are possible.

According to Mitsubishi, the system for quick return stroking involves specially developed software in combination with enhanced servomotor performance. This software works in unison with the programmable helix angle generation to achieve accurate lead control for the return and cutting stroke.

For more information, contact Mitsubishi of Wixom, MI, by telephone at (248) 668-4141 or on the Internet at *www.mitsubishigearcenter.com.*

New DC Gearmotor from Thomson Airpax Mechatronics

The TAM58-3E is a new family of brushless DC gearmotors that combine 9-slot stator and 12-pole rotor construction design. This motor provides a gear reduction transmission with a standard brushless motor and controller in one package.

Modular motors can be ordered with an internal Hall sensor wire harness assembly or full on-board drive electronics. The motors are combined with heavy-duty, permanently lubricated gear trains. According to Thomson's press release, the products bring the benefits of long-life brushless motor power to small-space applications.

These products work in damp, dusty and harsh environments and conform to the IP44 construction and NEMA Size 34 mounting standards. They are designed for use in industrial applications like automated conveyor systems, bar code labeling, printing, pumps, valves, machine tools and agricultural equipment.

For more information, contact Thomson Airpax Mechatronics of Port Washington, NY, by telephone at (516) 883-8000 or by fax at (516) 883-9039.

Send your new product releases to:
Gear Technology
1401 Lunt Avenue
Elk Grove Village, IL 60007
Fax: 847-437-6618
E-mail: *people@geartechnology.com*

Tell Us What You Think . . .
Visit *www.geartechnology.com* to
- **Rate this column**
- **Request more information**
- **Contact companies mentioned**
- **Make a suggestion**

Or call (847) 437-6604 to talk to one of our editors!