

# Products for the Gear Industry



## New Threaded Wheel Grinder from Gleason

The 245TWG threaded wheel grinder from Gleason produces high quality finish grinding of automotive final drive ring gears, speed gears, planet pinions and planet gears up to 245 mm in diameter, with 3.25 module.

According to the company's press release, DIN 5-6 quality is achievable for most parameters, as is lead and profile accuracy to 2.5 microns.

Use of direct-drive spindles for the grinding wheel, worktable and dressing spindle has led to improvement in overall cycle times. The integration of on-machine dressing, coupled with a load/unload mechanism, enables the grinder to cut floor-to-floor time on a typical final drive ring gear to approximately one minute.

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).

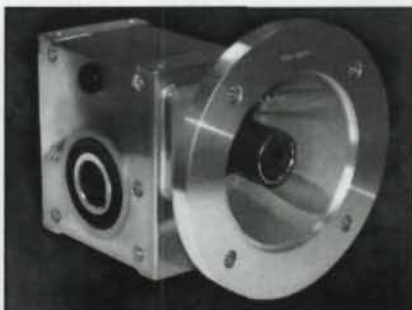
## New Worm Gear Unit from Renold Gears

According to Renold Gears, the JW Series worm gear unit is a high quality, low powered unit providing a drive solution to a range of applications, including printing and textiles, materials handling, conveyor drives and other industrial uses.

According to the company's press

release, the gearbox is available in 10 sizes with power capacities up to 4kW and gear ratios of 5:1-100:1. Suitable motors include both standard IEC and NEMA motors, including the high efficiency EFF1 motor range. Double reduction units can be used to provide the option of a 4,000:1 ratio. Additionally, the product incorporates mounting surfaces on all sides of the gear case and the option of an output mounting flange on either side of the unit.

For more information, contact Renold Gears of Rochdale, U.K., by telephone at (44) 1706-751-000 or on the Internet at [www.renold.com](http://www.renold.com).

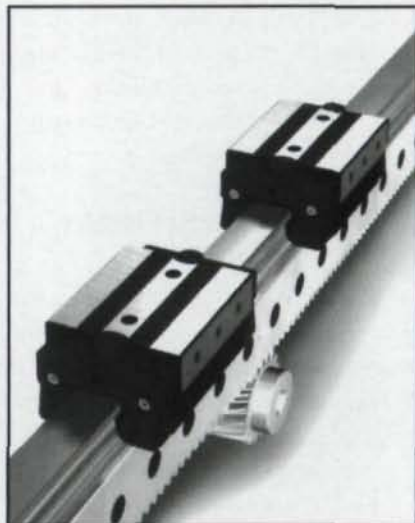


## New Right-Angle Gearing Technology from Cone Drive

The Conex helicoidal gearing enables Cone Drive to offer increased torque in a smaller package.

Designed for use in conveyor handling systems in the paper and packaging industries and in small- to medium-duty manufacturing operations, Series B is offered in universal gear case sizes 02-11. According to Cone Drive's press release, this gear geometry has power capabilities up to 20 hp and maximum output torque capacity of 5,000 lb.-in., with a choice of 10 standard ratios from 5:1 to 60:1.

For more information, contact Textron Power Transmission of Traverse City, MI, by telephone at (888) 994-2663.



## New Linear Guide with Integrated Toothed Gear Drive System from Schneeberger

According to Schneeberger Inc., the Monorail BZ 35 connects highly accurate toothed gear segments by creating a unified linear guide and rack that is ready for fast installation with a pinion drive.

The guide can handle forces large enough to be used in wood process machines as well as laser and water jet cutting machinery.

Single lengths up to 2,000 mm are available in the 400 mm module and single lengths up to 6,000 mm are feasible without a joint required. By lining up several BZ systems next to each other, large paths of travel can be achieved without loss of accuracy.

For more information, contact Schneeberger Inc. of Bedford, MA, by telephone at (781) 271-0140 or on the Internet at [www.schneeberger.com](http://www.schneeberger.com).

## New Grades of PBT from Ticona

The Celstran PBT-GF30, Celstran PBT-GF40 and Celstran PCT-GF50 materials from Ticona are long-fiber-



reinforced polybutylene terephthalate (PBT) grades with 30%, 40%, and 50% long-glass fibers.

The new grades contain a PBT polymer specifically formulated to improve the mechanical properties of long-fiber composites, according to the company's press release.

Ticona added that the impact, tensile and flexural strengths of the new long-fiber-reinforced PBT grades are nearly identical to those of nylon.

For more information, contact Ticona of Summit, NJ, by telephone at (800) 235-2637 or on the Internet at [www.ticona.com](http://www.ticona.com).



### New Flat Harmonic Gearing Components from HD Systems

The CSD Series drive from HD Systems delivers zero backlash, 1 arc-minute positional accuracy and  $\pm 5$  arc-second repeatability.

The series has an outer diameter of 110 mm and is 22 mm in length. It has a rated torque of 850 in.-lbs. and a maximum torque of 3,175 in.-lbs.

The series is designed by using the company's patented "S" tooth profile and is available in gear ratios of 50:1, 100:1 and 160:1.

Suitable for applications including robotics, factory automation and aerospace, the series is designed to allow the surrounding enclosure to be made compact for additional size and weight savings.

For more information, contact HD

Systems of Hauppauge, NY, by telephone at (631) 231-6630 or on the Internet at [www.HDSI.net](http://www.HDSI.net).

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