

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 Drives from BNA

Bonfiglioli North America (BNA) has introduced its new F-Series shaft mount helical drives and gearmotors as well as a new series of mechanical planetary adjustable speed drives and its new A-Series right angle bevel gear drives.

The new F-Series helical drives and gearmotors are designed to increase the efficiency that is available with hollow shaft mounting capabilities. Allowing for simple compact drive applications, these drives have a torque range between 670 and 25,700 in.-lbs. and offer ratios from 6.4:1 to 545.3:1.

Designed for retrofitting fixed speed applications to change over to adjustability, BNA's new line of mechanical planetary adjustable speed drives are available in C-face or IEC input or output. They can also be used as components within complete drive packages with virtually any reducer or motor combination. The sealed planetary design running in oil makes them ideal for explosion proof applications or where overloads or shock loads are encountered. With a 6.5:1 stepless speed range, they can accept both high efficiency or explosion-proof motors.

The new BNA A-Series (pictured above) offers efficiency approaching that of helical gears but at a lower cost than many other bevel gear drives on the market. Outstanding drive mounting flexibility results from the unique symmetrical housing design and universal mounting faces. In addition, they provide nearly 50% greater two-stage reduction, as high as 100:1, resulting in greater economy and reduced maintenance costs. Torque

ranges from 650 to 25,000 in.-lbs. and ratios from 5:1 to 400:1 are available, as are hollow or solid output shafts.

For more information about these or other BNA products, contact Joel Camunias, BNA technical sales, at (905) 738-4466 or visit their Web site at www.bnagear.com.

Circle 300



New High Performance CBN Grinder with Small Footprint

The extreme stiffness of the new 950 Series Compact Multiaxis CBN Grinders from Campbell Grinder Company allows higher feed rates, increased productivity and longer wheel life.

The Campbell 950 is a 3-axis form grinder with strokes of X=18", Y=18" and Z=18". Axes are driven by AC servomotors directly coupled to precision preloaded ballscrews. The 20 HP liquid-cooled motorized spindle has an HSK 80 mount for quick and accurate wheel changes. The one-piece, polymer concrete-filled frame totally encompasses the machine axes, providing stiffness, vibration dampening and thermal stability. A stiff and stable grinding platform allows higher feed rates for greater productivity and maximizes wheel life. With a dressable CBN wheel, the Campbell 950 can hold tolerances of .0001" and surface finishes of 16 RMS or better on a production basis.

The 950 Series comes equipped with Fanuc's new 21i Series CNC, which can be upgraded to Fanuc's Windows NT-based 210i open architecture CNC. Other customer options include a 30 HP spindle, high-speed spindles, rotary axes, mist collectors, coolant filters, fixturing and automation. For more information contact Norman Campbell, president, Campbell Grinder Company, at (616) 733-2674 or visit their Web site at www.campbellgrinder.com.

Circle 301



Conveyor Blast System from Guyson

Guyson Corporation has introduced an expanded through-feed conveyor blast system for continuous in-line cleaning, surface preparation and impact treatment operations. The Model TR-900 is now available with a belt width of up to 17 inches.

Equipped as either a pneumatic suction-blast system with up to 12 guns, or a direct pressure system with media delivery by multiple pressure nozzles, the TR-900 can utilize the full spectrum of dry blast media. According to the manufacturer, the system's compatibility with all types of media, from nonabrasive plastic bead to metallic, glass or ceramic shot and the most aggressive mineral grit, makes it useful for a broad range of applications. These include cleaning, deflashing, deburring, cosmetic or decorative surface finishing, descaling, etching and profiling.

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CIRCLE 148



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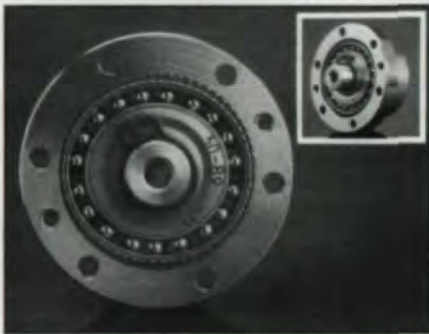
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The TR-900 blast machine can be fitted with a rubber conveyor belt or a honeycomb mesh belt capable of moving in continuous or indexed motion at controlled and variable speed from 0 to 20 feet per minute. The blast nozzles are pre-positioned at the correct angles and distances on multi-adjustable brackets. When required for total coverage with the minimum number of nozzles and the lowest compressed air usage, synchronized movement of the blast nozzles can be oscillating, linear or rotary. The media delivery system is completed by a cyclone separator-reclaimer connected by ducting to an efficient cartridge-type dust collector.

For additional information, contact John C. Carson, Guyson's marketing manager, at (518) 587-7894.

Circle 302



Lowest Gear Ratio Available for Harmonic Drive Gearing

Exclusively from HD Systems, the lowest gear ratio available for harmonic drive gearing. The 30:1 is a breakthrough for motion control products. Until now, the lowest gear ratio available was 50:1, which limited the range of operation to applications involving low-speed and high accuracy. Now, with its revolutionary design, the 30:1 is ideal for high-speed applications requiring smooth motion and high accuracy. These gears offer zero backlash and high precision in a compact package, delivering 1.5 arc-min positional accuracy. For a catalog or further information, contact HD Systems, Inc., 89 Cabot Court, Hauppauge, NY 11788. (800) 231-HDSI.

Circle 303

RGF Introduces the Thermo-Oxidizer 120 Water Evaporation Unit

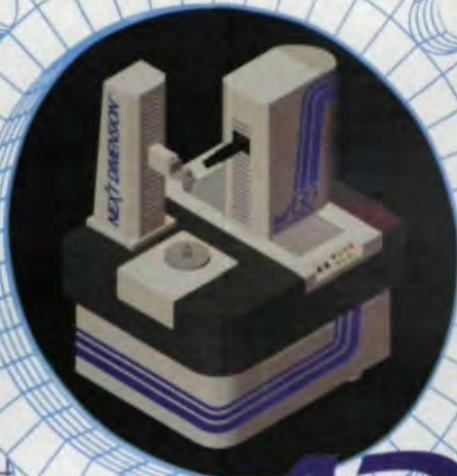
The RGF Thermo-Oxidizer wastewater evaporation unit has been designed to thermally oxidize up to 120 gallons of wastewater per hour at up to 1,600°F. The unit burns natural gas, LPG, diesel fuel or waste oil, eliminating the need for liquid disposal costs and sewer discharge. This makes it an ideal way to eliminate wastewater without the

traditional problems associated with an evaporator.

Additional savings can be achieved by adding the optional waste oil burner, a proven waste oil burning technology that can replace up to 500,000 Btu/hr of NG or LPG from the main burner, saving up to 60% fuel cost while at the same time eliminating up to 84 gallons of waste oil per day. Also, significant portions of waste heat can be recovered from the exhaust gases by the incorpora-

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CIRCLE 149

PRODUCT NEWS

tion of optional stainless steel regenerative air-to-air heat exchangers or hot water heat exchangers.

Circle 304



Versatile Inspection Ball Kits

The use of precision balls as inspection tools is no longer limited by the small number of fractional ball sizes currently available. Bal-tec's kits are produced in all popular fractional inch sizes from 3/32 to 1-inch diameter. Each seven-ball kit contains a nominal fractional ball as well as one each that is +.0002", +.0004", +.001", +.002", and -.001" and -.002".

These balls are made of high carbon, chrome alloy steel, hardened to 62 Rc and precision lapped round to less than 25 microinches. The surface finish is precision polished to better than 1.5 microinches Ra. The absolute diameter tolerance of each ball is less than +/- 100 microinches.

Each size ball kit is packaged in an individual plastic vial and is available individually or as a complete 22-size set. The complete set is shipped in a heavy duty steel storage box. For more information contact Bal-tec, a division of Micro Surface Engineering, Inc., at (323) 582-7348.

Circle 305

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