

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.



**Carbide Inserts**

**Madison Cutting Tools, Inc.** announces the availability of single-edge, cylindrically ground carbide inserts for Accusize® precision spade drills. The inserts offer high wear resistance in applications requiring close tolerance drilling and uniform surface finishes. They are available uncoated and in a variety of coatings, including TiN and TiCN. They are available in sizes from 1/2" to 1 3/8" and fit the same holders as Madison's Duodex indexable HSS spade drills.

Circle Reader Service No. A-85



**Stand-Alone Digital Servo Drives**

**Emerson Electronic Motion Controls** announces that their MX Series of brushless digital servo amplifiers is available with a 50-year limited warranty. The amplifiers accept direct-line power input of 380 VAC to 460 VAC, 3 phase, eliminating the need for an isolation transformer. Available in five models, providing continuous rated current output of 2.8 to 16 amps. They have pulse width modulated design and sinusoidal commutation, ±10 volt analog velocity, and four I/O controllable, user-definable speeds with ramping.

Circle Reader Service No. A-86



**Small Shop Coolant Equipment**

**Master Chemical Corporation** offers three new pieces of equipment designed for the smaller metalworking shop. The Xybex 300 coolant recycling system has twin 125 gallon coolant holding tanks and an automatic coolant proportioning system and is capable of processing up to 120 gallons of coolant per hour. The Bantam™ Air-65 Yellow Bellied Sump Sucker is a 65-gallon sump cleaner powered by an air-venturi vacuum generator. The ESP™ Ultrafiltration series is a single-step oil/water filtration system that produces clean water from emulsified and non-emulsified oil wastes. Capable of processing up to 50 gallons per day of aqueous and non-aqueous oily waste streams including machining coolants, alkaline cleaners and rinse water from metal parts cleaning.

Circle Reader Service No A-87



**Rockwell Hardness Tester**

**Instron** introduces the Wilson 600 Series hardness testers, which incorporate a high stiffness frame and advanced

microprocessor design. The series is designed for versatility and ease of use in laboratory and factory floor applications. Four models are available with a throat depth of 6 1/4" and vertical capacities from 7-19". The 600 Series testers meet ASTM E-18 requirements, and models are available for testing on regular Rockwell and/or superficial Rockwell scales. The series comes with a full range of accessories.

Circle Reader Service No. A-88



**Chuck Jaws**

**Ajax Industries** offers chuck jaws for Kitagawa, Howa, Matsumoto, Cushman, Buck, Bison and SMW lathe chucks. They are available in serrated, thong & groove and Acme and square master key styles for both metric and English standard style chucks.

Circle Reader Service No. A-89



**Compact Rail Rollers**

**Pacific Bearing Company** has announced that the Rollon compact rail linear guideway system's rollers are now available for individual sale. Customers can now buy the rollers individually to create their own linear systems and sliders. The rollers are available in eccentric (adjustable) and

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## PRODUCT NEWS

centric (centered) styles with either zinc-plated steel or rubber shields. They are life-lubricated and available in four different sizes. They are useful in a variety of applications including machine tool guards, safety panels, sliding doors and drawers and linear table movements.

Circle Reader Service No. A-90



#### 3-D Laser Digitizer

Kreon Industrie (France) offers a contactless 3-D laser digitization system, which scans the surfaces of objects to enter their 3-D geometries into CAD systems for reverse engineering and part replication. Application areas include design of parts, molding and tooling for automotive, aerospace, appliance, business machines and industrial equipment. The system is compatible with all CAD software.

Circle Reader Service No. A-91

#### NASA Software

NASA's Software Technology Transfer Center offers CARRAC, a tool for combined analysis of reliability, redundancy and cost. CARRAC assists the user in choosing an optimal subsystem that will minimize cost. The program uses associated reliability and cost parameters to calculate and compare a total expected cost for each subsystem. The method of calculation can be selected from five different models, allowing application to a wide variety of cases. Written in Microsoft Quick-Basic for IBM PC-compatible computers.

Circle Reader Service No. A-92



### Composite Gear Material

**Intech Corp.** offers composite gears made of the company's Power-Core™ material. Gears made of Power-Core are constructed with a metal hub that delivers a secure torque transmission and provides positive locking to the shaft. The plastic body imparts vibration dampening and self-lubricating characteristics to give quiet, maintenance-free performance. Available in sizes from 1 to 36" and in ring gears up to 96".

Circle Reader Service No. A-93

### 3-D Imaging of Gear Tooth Surfaces

**Oxford Instruments** offers the FACET™ Surface Characterization System, which combines techniques from scanning electron microscopy and X-ray microanalysis to produce 3-D images of engineering surfaces, including gear teeth. It can also generate topographical measurement and precise data on the distribution of the chemical elements in the surface.

Circle Reader Service No. A-94

### ISO/QS-9000 Software

**Engineered Work Systems, Inc.** offers TILLIE™, Windows™-based software for preparing documentation for ISO 9000 or QS-9000 certification. The program purports to make correlation of job descriptions with employee training and proficiency levels easy. It also organizes this information into a relational database and automatically produces required documentation.

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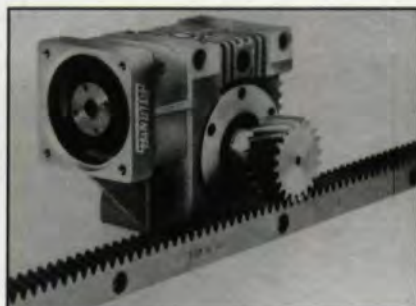


**Multi-Module Aqueous Cleaning Transfer System**

SurfTran Cleaning Systems has developed and built an automatic four module in-line transfer cleaning system for tier one suppliers. Each in-line module is separately controlled to precision clean different types and sizes of parts with different cleaning solutions. It is a

CNC-programmable, closed-loop system that can process approximately 20 gallons per hour. The modules are individually programmable and contain functions such as rotation, oscillation, turbojet wash and rinsing, patented push-pull ultrasonic devices, hot air drying and patented vacuum shock drying for maximum cleaning.

Circle Reader Service No. A-96



**High-Performance Servo-Worm Reducers**

Andantex USA offers the new ATLANTA servo-worm reducers for a high level of precision and position

accuracy in servo applications. The drives encompass newly designed worm and wheel tooth profiles, optimized to achieve angular backlash levels of less than three arc-minutes. Adjustable backlash, precision angular contact bearings to eliminate axial play. High radial and axial loads. Available in four sizes, up to 100 mm center distance. Reduction ratios from 4.75 to 50:1. Input speeds to 5,000 rpm. Output accessories are available.

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