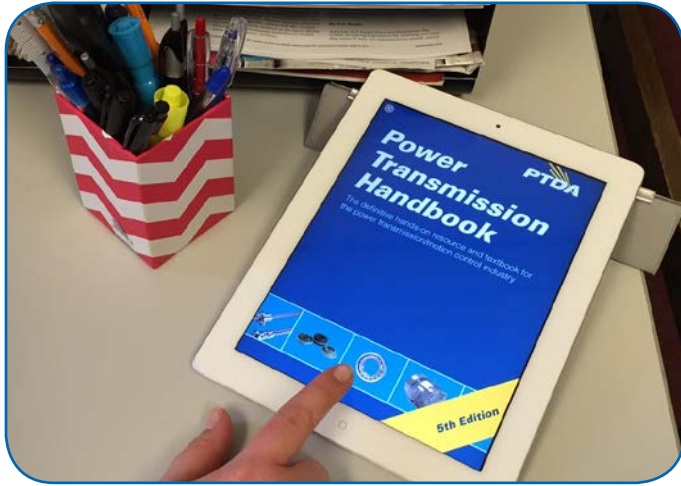


PTDA

MAKES 'POWER TRANSMISSION HANDBOOK' AVAILABLE ONLINE

The PTDA Power Transmission Handbook eBook is now for sale at the PTDA Store. The content has been adapted from the recently released fifth edition of the Power Transmission Handbook, a reference on power transmission motion control products and the processes where these products are used.



The book has been adopted by industry professionals as well as educators and students in universities, community colleges and technical and trade schools. The Handbook eBook is currently available in both Apple and Kindle formats as searchable, bookmark-able, transportable content for busy people on the go.

First published in 1969 and recently updated, PTDA's Power Transmission Handbook is a comprehensive primer on the products, technology and concepts that move the industry.

The information contained in the book is suitable for inside/outside salespeople, experienced employees and customers. The publication has been formatted for ease of reading and features nearly 400 pages of vetted content, graphics and application examples.

Chapters touch on topics like adjustable speed drives, bearings, clutches and brakes, controls and sensors, linear motion and motors.

Thomas W. Rouse

NAMED PRESIDENT OF C&U AMERICAS

C&U Americas, LLC, the North American subsidiary of The C&U Group, recently named **Thomas W. Rouse** as its new president.

The announcement was made by XianLiang Zhou, chairman of C&U Americas, who noted that Rouse will be



responsible for managing all aspects of the C&U Americas' operations, including new business, sales, marketing, engineering, customer service, warehousing operations, and administration. Rouse succeeds William A. Childers, who is retiring.

"We are delighted to have Tom Rouse on our team," Zhou stated. "He brings a wealth of expertise as well as top-level management experience in the bearing business to the C&U Americas organization. His proven ability to deliver excellent sales results and his exceptional leadership qualities are precisely the attributes that we need to continue to grow the C&U Americas business in the U.S. and build an even stronger brand in the NAFTA market."

Rouse comes to C&U Americas after serving Precision Gear Holdings, LLC and Merit Gear, LLC as president and chief executive officer since December of 2009. He held full responsibility for P&L, manufacturing, and all department functions of both organizations.

Prior to Precision Gear, Rouse enjoyed a 20-year career at NSK Corporation. During his tenure as president and COO from 2004 to 2009, he was responsible for all industrial, after-market and automotive business segments, five manufacturing locations, and 1,500 employees.

During his time at NSK Corporation (1989 to 2009) Rouse also served as president and general manager of NSK Precision America, director of information management and business planning, and senior automotive marketing manager.

From 1983 to 1989, Rouse was a sales engineer and market analyst for steering and suspension products at TRW Automotive, Inc.

Rouse also served as a board and executive committee member of the American Bearing Manufacturers Association. He holds an MBA from Wayne State University and a B.A. in business from Michigan State University.

C&U Americas offers a full line of bearing types and styles for use in original equipment manufacturing, aftermarket replacement, and MRO operations. The C&U portfolio includes over 30,000 types of bearings in a wide range of specifications and sizes ranging from 1.5 mm ID to 4,000 mm OD.

North American Robotics Market

HAS STRONGEST YEAR EVER IN 2014

Robot orders and shipments in North America set new records in 2014, according to the Robotic Industries Association (RIA), the industry's trade group.

A total of 27,685 robots valued at \$1.6 billion were ordered from North American companies during 2014, an increase of 28% in units and 19% in dollars over 2013. Robot shipments also set new records, with 25,425 robots valued at \$1.5 billion being shipped to North American customers in 2014. Shipments grew 13% in units and six percent in dollars over the previous records set in 2013.

The automotive industry was the primary driver of growth in 2014, with robot orders increasing 45% year over year.

Non-automotive industries also performed well throughout the year, growing seven percent in total over 2013. The standout non-automotive industries in 2014 in terms of order growth were plastics and rubber (25%), semiconductor and electronics (21%), and metals (16%).

According to Alex Shikany, Director of Market Analysis for RIA, the fastest growing applications for robot orders in North America in 2014 were Arc Welding (+58%), Spot Welding (+57%), Assembly (+16%), and Material Handling (+11%). RIA estimates that some 230,000 robots are now at use in United States factories, placing the U.S. second only to Japan in robot use.

“This is an extremely exciting time to be involved in the robotics industry,” said Jeff Burnstein, president of RIA. “Record sales performance, groundbreaking innovation, and increasing consumer interest all make the robotics industry so dynamic.”

Burnstein noted that the RIA and its parent group the Association for Advancing Automation are seeing the impacts of the growth in demand for automation in events like the upcoming Automate 2015 trade show.

“With six weeks to go, the exhibit floor at Automate 2015 is already over 70% larger than our 2013 event,” he said. “This growth is attributed to the fact that leading automation companies are reaching out to small and medium sized customers, many of whom are just now beginning to explore automation. This group makes up the core of the Automate 2015 attendee base, and early indicators are that the attendance in 2015 will be more than 50% higher than two years ago.”

Polygon Solutions

JOINS NATIONAL ASSOCIATION OF MANUFACTURERS

Polygon Solutions Inc. recently announced it is joining the National Association of Manufacturers (NAM). The Florida company manufactures rotary broaching tools, used in CNC machines to make bone screws and accurate aerospace fasteners.

Polygon Solution is only four years old, but has won the nationally recognized ML100 award for Innovative Enterprise and regional awards for Market Problem Solving and Technology Transformation. Polygon also continues to re-



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lease new rotary broaching products every year, increasing in size and employees.

The National Association of Manufacturers is a co-producer of the Manufacturing Day event. NAM represents 11,000 companies, and is the nation's largest industrial trade association, representing small and large manufacturers in every industrial sector and in all 50 states. Manufacturing Day is designed to open the doors of manufacturing facilities to students and the public, and help them to see the opportunity they have to join a more modern manufacturing experience than in years past.

Polygon Solutions has participated in Manufacturing Day every year since it began. It has partnered with Lee County High School in Southwest Florida to bring students into their facility for a manufacturing presentation and tour. Attendance for the event has nearly doubled every year.

The joint effort is helping other businesses too. Neighboring Paver Motorcycles decided to join Polygon's tour this year. After learning about innovative rotary broach tools, students were directed next door to learn how custom motorcycles are made. Most students admitted afterwards that although they hadn't considered a career in manufacturing, they were more likely to after the tour.

Polygon credits much of its success to the relationships they've developed with various manufacturing associations. Other affiliations include the Precision Machined Products Association (PMPA), the Southwest Regional Manufacturer's Association (SRMA) and the National Tooling and Machining Association (NTMA). The broach manufacturer is now expecting to make further gains in exporting, tax issues and workforce development with the help of the National Association of Manufacturers (NAM).

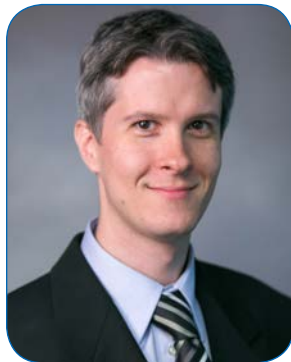
Kent Furst

NAMED MANAGER OF FREEDONIA GROUP'S POLYMERS AND MATERIALS GROUP

Kent Furst was recently promoted to manager of the polymers and materials group at The Freedonia Group, Inc.

Furst has worked as an industry analyst since 2005 and is a member of the Society of Plastics Engineers. Furst graduated from Case Western Reserve University with a BS in Polymer Science & Engineering.

He recently was the keynote speaker at the 2014 International Silicone Conference and is currently involved in research on the polyethylene, fluoropolymer, and graphite industries.

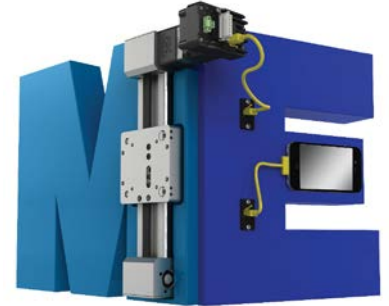


PBC Linear and Moons' Industries

ANNOUNCE JOINT VENTURE

PBC Linear and Moons' Industries recently announced a joint venture together to develop and deliver integrated mechatronic solutions for linear motion applications.

For over 30 years, PBC Linear has been a developer and manufacturer of linear motion solutions for a broad range of applications while developing a market in North America. In the last 20 years, Moons' Industries has grown to become the fourth



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largest stepper motor manufacturer in the world with a base in Asia and Europe. Combining in a joint venture, PBC & Moons' bring experience in manufacturing precision linear rails, multiple bearing types and drive options, and creating robust linear actuators along with experience in stepper and smart stepper motors, control solutions, and network connectivity to provide a global, simplified approach to integrated mechatronics for single axis robot modules and multi-axis systems.

The PBC and Moons' combination addresses the markets merging of multiple technical disciplines, trims down and consolidates the proliferation of vendors and companies to deal with, and simplifies the complex design and architecture of a mechatronics solution.

Motion Industries

ANNOUNCES EXPANSION TO ALASKA

Motion Industries, Inc. a wholly owned subsidiary of Genuine Parts Company, recently announced the purchase of Oil & Gas Supply, located in Anchorage, AK. The acquisition was finalized on February 2, 2015.

Oil & Gas Supply has two locations in Alaska – Anchorage and Kenai – providing industrial and hydraulic fluid power hoses, fitting and repair services, as well as tank truck parts to the oil and gas industry. The purchase of Oil & Gas Supply expands Motion Industries' Northwest footprint, serving industries including mining, construction, and fishing, in addition to oil and gas.

"The addition of Oil & Gas Supply provides an expansion of products, services, and value for customers in Alaska, an important area for our company's 49-state coverage," said Tim Breen, Motion Industries' president and CEO. "We are happy to have Oil & Gas Supply as part of the Motion Industries team."

With annual sales of \$4.5 billion, Motion Industries is a leading industrial parts distributor of bearings, mechanical power transmission, electrical and industrial automation,

hydraulic and industrial hose, hydraulic and pneumatic components, industrial products, safety products, and material handling.

Motion Industries has over 550 operations including 15 distribution centers throughout North America and serves more than 150,000 customers from the food and beverage, pulp and paper, iron and steel, chemical, mining and aggregate, petrochemical, automotive, wood and lumber, and pharmaceutical industries.

Sercos

CELEBRATES 25TH ANNIVERSARY

Sercos International, supplier of the Sercos automation bus, recently celebrated its 25th anniversary as well as 10 years of Sercos III technology.

Digital intelligent drives offer the highest precision and speeds for numerically controlled machines, at the same time minimizing equipment costs. In order to benefit from these advantages, an efficient digital interface is required for control. Although Sercos was originally designed as such an interface, over the course of the last two decades Sercos has developed into a universally deployable real-time interface for all automation applications.



In 1988, the concept was established, along with the clock-synchronous transfer concept, the most important profiles and the desire to offer an ASIC as the basis for the master and slave interfaces. So in 1990 Förderergemeinschaft SERCOS interface (FGS) was founded. Its members undertook both financing the Sercos concept and also supporting it for the future. Today, this syndicate collaborates on an international basis under the umbrella of Sercos International e.V.

The first generation, which was presented to the public for the first time at the EMO show in Hanover in 1989, supported 2 and 4 Mbit/s transmission rates and initially was used mainly in demanding tool machine applications. In the following years, Sercos was deployed in a wide variety of applications around the globe and in a wide variety of applications and industries. In 1995, Sercos was recognized as IEC standard 61491.

In 1999, the second generation of the standard followed. The transmission rate was increased to 8 and 16 Mbit/s, a new ASIC was developed, and the service was expanded to include asynchronous data transmission. Since 2001, this technology has been available based on the SERCON816 ASIC, with backward compatibility with the first generation ensured.

The recipe for success of Sercos III, the third generation of Sercos, which was launched into the market with initial prototypes in 2005, is: "Use of the transmission medium and the protocol of Ethernet while preserving the tried-and-tested Sercos mechanisms."

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