

SKF

OPENS SECOND U.S. SOLUTION FACTORY

SKF has announced the grand opening of the SKF Solution Factory in the Cleveland, Ohio area, a venue designed to equip customers with value-added solutions and industry knowledge. This new facility is the second to open in the United States, joining a growing network of 17 others worldwide. "The SKF Solution Factory is another way for us to provide customers with the resources they need to meet machinery performance and operating efficiency goals," said Poul Jeppesen, president and CEO of SKF North America. "We are pleased to bring this state-of-the-art facility and its unique portfolio of services to this region."

The SKF Solution Factory in Cleveland provides access to SKF's diverse technical resources for machine productiv-

ity solutions. The facility offers an extensive range of services, including bearing application support, customized machined sealing solutions, spindle and ball screw repair, mechanical equipment services, engineering consultancy, remote diagnostics and monitoring, and a full spectrum of training courses and seminars. This new SKF Solution Factory serves a wide range of industries, including machine tool, food and beverage, mining, and metals, among others. The facility is located at 670 Alpha Drive, Highland Heights, Ohio 44143. The other SKF Solution Factory in the United States is located in Houston, Texas.



SKF

WINS LAS VEGAS BEARING CONTRACT

SKF has recently been awarded the contract to supply the two giant main bearings and related technologies for Caesars Entertainment Corporation's Las Vegas High Roller observation wheel expected to soar at the heart of the world-famous Las Vegas Strip in late 2013. The 550-foot-tall wheel, eclipsing the famed 443-foot-tall London Eye, will be equipped with two SKF spherical roller bearings that will turn out to be the largest ever produced at the SKF manufacturing facility in Gothenburg, Sweden.

The two custom-designed SKF spherical roller bearings (one within each side) will be virtually unprecedented in weight and size. Each bearing will weigh approximately 8,800 kg and be designed with 2,300 mm outer diameter, 1,600 mm inner diameter, and width of 630 mm. Specially engineered features will include W26 lubrication holes in the inner ring, SKF NoWear-coated rollers, and PTFE coating in the bore. SKF additionally will incorporate advanced lubrication, sealing, and on-line condition-monitoring systems and take the lead in monitoring the bearings once the wheel is up and running.

SKF was awarded the contract by American Bridge Company (Coraopolis, PA, USA), which is responsible for constructing the 143 m-diameter tension wheel. In addition to the two SKF bearing assemblies, the structure will consist of four steel support legs, a single braced leg, fixed spindle, rotating hub,

2 m-diameter tubular rim, and 112 locked coil cable assemblies as spokes.

The Las Vegas High Roller is the centerpiece of The LINQ, a planned \$550 million, open-air retail, dining, and entertainment district situated between Imperial Palace and Flamingo Las Vegas. Each of the wheel's 28 supersize cabins (which themselves will revolve) will accommodate up to 40 people during a 30-minute ride.

The Las Vegas High Roller turns out to be the latest SKF big-wheel project in a growing portfolio of expertise. The Navy Pier Ferris wheel in Chicago similarly operates with two SKF spherical roller bearings and SKF Reliability Systems retains responsibility for ongoing proactive maintenance programs. For more information, visit www.skf.com.



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Wichita Clutch

RECEIVES TEXAS MANUFACTURING STAR AWARD

The Texas Workforce Commission (TWC) recently honored Wichita Clutch with the Texas Manufacturing Star Award at the Texas Business Conference in Wichita Falls, Texas. TWC Commissioner Representing Employers, Tom Pauken presented the award to Wichita Clutch, a global leader in the design and manufacture of heavy-duty industrial pneumatic and hydraulically-actuated clutches and brakes.

The award acknowledges outstanding private-sector employers who contribute to the growing manufacturing base in Texas. "Wichita Clutch is always looking for better, more



cost-effective ways to get their products produced," said Pauken. "They are a vital participant in the overall health of the Wichita Falls community and its economic development." Businesses are selected for the award based on the economic impact they have on their communities, partnerships they develop with economic development organizations or training providers as well as their workforce training and development.

"We are very proud to receive this prestigious award," said Mark Stuebe, vice president and general manager of Altra Industrial Motion's Heavy-Duty Clutch Brake Group. "Our focus is on maximizing our resources and capital while contributing to the economic vitality of Wichita Falls." For more information, visit www.altramotion.com.

Bison

SUPPORTS PTDA INITIATIVE

With the anticipated retirement of more than 80 million baby boomers over the next 20 years and only 43 million younger workers in line to replace them, the time is fast approaching when recruiting talented individuals will once again be a serious challenge for every business. For the power transmission/motion control industry, the problem is even more profound as it endures a lack of recognition among young

people as well as a well-publicized skills gap. The Industrial Career Pathway (ICP) initiative—founded and significantly funded by the PTDA Foundation—is taking major steps to ensure the workforce is aware of the satisfying and rewarding careers available in industrial distribution. And to help, Bison Gear and Engineering has stepped up by making a contribution to fund the initiative's activities in 2012. With this contribution, Bison is taking a leading role in the movement to drive talented workers to key positions in manufacturing and industrial distribution. The PTDA Foundation, whose work is funded solely by donations, was founded in 1982 to enhance knowledge, education, professionalism and productivity within the power transmission/motion control industry. The foundation is a not-for-profit, tax-exempt 501 (c)(3) corporation; contributions are tax deductible to the full amount allowed by law. The PTDA Foundation's core initiative, Industrial Careers Pathway, is a collaboration of industrial distribution associations working together to bring tomorrow's North American employees to the industrial distribution channel, develop programs to teach business and distribution basics and create affordable resources for current employee development. For more information, visit www.ptda.org.

Motion Industries

NAMED SUPPLIER OF THE YEAR

Motion Industries, a distributor of industrial maintenance, repair, and operation (MRO) replacement parts, was named Supplier of the Year FY12 (Indirect Procurement category) by Heinz North America. Motion was the only company to receive a Supplier of the Year Award in the Indirect Procurement category. Motion had exceeded in delivering Heinz North America's key objectives of cost savings, quality, efficiency, and innovation, during fiscal year 2012. This is the first time that Motion or any Indirect supplier to Heinz North America has won this award for two consecutive years. "Out of the hundreds of Indirect suppliers to Heinz, Motion had to make a huge impact to Heinz to be nominated and selected for this award, given the competitive environment and quality suppliers managed by Indirect Procurement," said Keith Nasse, Indirect procurement senior buyer at Heinz North America. "Motion has clearly partnered with Heinz to help us improve our efficiencies and capture productivity gains."

Bill Stevens, Motion Industries president and CEO, said, "We strive to provide our customers with the best service possible, and we are pleased that Heinz North America has honored us with this significant award."

The Supplier of the Year Award is the most prestigious award that Heinz offers to its suppliers. For more information, visit www.motionindustries.com.



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AMT

ISSUES SECOND GENERATION OF THE MANUFACTURING MANDATE

As part of its effort to solidify the renaissance in American manufacturing, the Association for Manufacturing Technology (AMT) has issued the second generation of The Manufacturing Mandate. The Manufacturing Mandate was introduced in 2009 just as the recession was ending. Since then, the U.S. manufacturing sector has been the driving force behind the economic recovery. Today, policymakers, industry leaders and academia agree on the major aspects of a national strategy that will accelerate and sustain this manufacturing resurgence. They are aligned with The Manufacturing Mandate core principles of incentivizing R&D and innovation; increasing global competitiveness and building a Smartforce that is equipped with the knowledge and skills necessary for careers in manufacturing.

The Manufacturing Mandate underscores the importance of collaboration as central to the implementation of a national strategy. The Obama Administration's recent announcement of a new public-private institute for manufacturing innovation in Youngstown, Ohio, is a prime example of the important role government can play in facilitating that collaboration between the public sector, academia and industry. This new partnership, the National Additive Manufacturing Innovation Institute (NAMII), was selected through a competitive process—led by the Department of Defense—to award an initial \$30 million in federal funding, matched by \$40 million from the winning consortium, which includes 40 manufacturing firms, nine research universities, five community colleges, and 11 non-profit organizations from the Ohio-Pennsylvania-West Virginia 'Tech Belt.' The NAMII aims to increase successful transition of additive manufacturing technology to manufacturing enterprises within USA. It is scheduled to launch in September and is led by the National Center for Defense Manufacturing and Machining. AMT and The MTConnect Institute are key launch partners in this innovative project. "AMT will continue to invest significant resources in a secure future for manufacturing in this country," said Douglas K. Woods, AMT president. "There is still much work to be done, but this type of support from the federal government is precisely the type of project the Manufacturing Mandate recommends. It certainly bodes well for America's future as the world's manufacturing innovator." For more information, visit www.amtonline.org.



Douglas K. Woods

Pacamor Kubar Bearings

EXPANDS CERTIFICATIONS

Pacamor Kubar Bearings (PKB) recently announced that they have successfully completed recertification to ISO 9001:2008 and AS9100:2009. This certification represents an upgrade to the company's previous AS9100:2004 classification. To achieve certification, PKB demonstrated a comprehensive and effective quality management system that governs all areas of its operation. PKB was evaluated throughout every phase of the manufacturing process, including procurement, production and testing to accounting, logistics, information systems and human resources. The latest analysis also included a thorough audit of all policies and practices, confirming that they are applied with a commitment towards ongoing improvement. The quality system assessment was completed at PKB's Troy, New York facility on April 4, 2012, including a review of all special capabilities necessary to develop and/or manufacture miniature and instrument ball bearings for the aerospace industry. The AS9100 standard is an Aerospace Industry Specification derived from ISO 9001. The AS9100:2009 standard specifies the quality management system requirements for suppliers to the defense, aviation and space industry. This upgraded AS9100:2009 standard supplements ISO 9001 by addressing the specific additional expectations of the aerospace industry, with special focus on improved quality, schedule and cost performance.

Edward M. Osta, executive vice president, states "This certification is confirmation of Pacamor Kubar Bearings superior quality in operations and process-driven excellence to ensure customer satisfaction. Our AS9100 and ISO 9001 Certifications, along with our FAA TSO-C149 Aircraft Bearings Certification, are necessary for PKB's continued growth in this important industry. ISO 9001:2008 and AS9100:2009 Certifications recognize our Quality System as being on par with the best quality systems in the aerospace industry. These certifications enhance the confidence of our current customers in our capabilities while providing us access to contracts only obtainable by AS9100 accredited organizations."

NovaTorque

PRESENTS AT WBT INNOVATION MARKETPLACE

NovaTorque Inc. presented at the tenth annual WBT Innovation Marketplace by Northrup Grumman that took place October 24–26, 2012 at the San Diego Convention Center. NovaTorque is among 130 companies and technology innovators from across the globe that was individually chosen by the WBT Selection Committee to present during WBT 2012. Emily Liggett, NovaTorque CEO, spoke about NovaTorque's cost effective, energy efficient, non-rare earth permanent magnet motor technology and future plans for its proprietary technology to some of the country's leading venture capital firms, Fortune 1000 corporate licensees, federal agency representatives and university technology transfer managers.

“Electric motors are everywhere, and nearly half of the electricity produced in the world is used to drive electric motors,” explained Liggett. “NovaTorque’s innovative technology provides the real potential to significantly reduce the energy consumed and carbon emissions produced by the use of electric motors—with enormous positive potential consequences, both economic and environmental. Importantly, due to our unique patented flux-focusing stator and rotor hub geometry, the NovaTorque motor produces this



performance with an all-ferrite (versus rare earth) magnet design. The ability to use ferrite magnets allows NovaTorque to price our motors to compete effectively with induction motors with extraordinarily rapid payback on the initial investment,” continues Liggett.

“We were pleased to include NovaTorque in this choice group of emerging companies and technologies to our exclusive forum of institutional investors, angel investors, and corporate licensees,” said Paul Huleatt, CEO, WBT Innovation Marketplace. “We hope NovaTorque will join the WBT alumni that have received over \$786 million in early and seed stage funding and licensing. One in three WBT presenters goes on to license, secure venture funding or sell their IP outright.”

“We were honored to present alongside a wide array of highly regarded researchers and technologists from around the world who are making ground breaking discoveries,” said Liggett.

As in previous years, the 2012 WBT Innovation Marketplace represents the collaborative, yearlong effort of investors, licensees, and tech commercialization professionals. The WBT is deal-focused and diverse, showcasing companies and technologies that vary by geography, funding source and type of research institution. Participating technologies are selected by and presented to seasoned venture investors and Fortune 500 licensing scouts representing a variety of growth oriented industries. WBT 2012 was hosted by the San Diego Regional Economic Development Corporation and CONNECT, an internationally recognized and award winning regional program that catalyzes the creation of innovative technology and life sciences products in San Diego County by linking inventors and entrepreneurs with the resources they need for success. For more information, visit www.wbtshowcase.com.

Bosch Rexroth

NAMES BOEHM VICE PRESIDENT MACHINERY APPLICATIONS AND ENGINEERING

Bosch Rexroth Corporation recently announced that Michael Boehm has been named vice president machinery applications and engineering. In his new role, Boehm will oversee product development, sales and operations for the company’s machinery applications and engineering business unit which includes bulk material handling, marine and offshore, filtration systems, service, industrial manufacturing equipment and hydraulic power technologies. Boehm, who most recently served as director sales product management mobile applications, has gained experience at numerous levels of technical sales management over his



Michael Boehm

27-year career in industrial and mobile hydraulics. He has more than 22 years of experience within Bosch and Bosch Rexroth, where he has been responsible for product management, sales channel and distribution development, including 12 years of international experience in the East Asian and Australian markets. He holds a bachelor of science in mechanical engineering from Purdue University and has completed executive management training at universities both in the U.S. and abroad. Boehm succeeds Winfried Hegel, who will become head of sales and industry sector management industrial manufacturing equipment for Bosch Rexroth’s industrial applications business unit in Germany.

Spungen

NAMED PRESIDENT OF PEER CHAIN COMPANY

Peer Chain Company, an industrial chain provider, recently announced that Glenn Spungen joined the company as president effective October 1, 2012. Spungen will manage all facets of the operation and oversee the expansion of the third-generation family business. His vision is to enhance customer service, build upon existing distributor relationships, and grow the original equipment manufacturer business. Spungen adds a wealth of sales management and operational



Glenn Spungen

experience to the team, having held key leadership roles at Peer Bearing Co. for 27 years. As Vice President of Sales and Operations, Spungen spearheaded sales in the United States and China, travelled extensively overseas to preside over the company's manufacturing plants, and oversaw the operations in the United States. In 2008 when the Spungens sold Peer Bearing Co. to SKF in Sweden, the company had over 1400 employees. "I'm incredibly excited to work with the Peer Chain team and build on our commitment to delivering the best customer experience in the industry," said Spungen. "We've identified major opportunities worldwide where we can develop new business and make a significant impact in the industry. I'm also eager to work with my family, colleagues and partners to ensure that the Peer Chain brand is the most trusted and respected in the industry."

Misumi Group

TO ACQUIRE DAYTON PROGRESS CORPORATION

Misumi Group Inc. of Japan recently announced that it has signed a definitive agreement to acquire Dayton Progress Corporation and its subsidiary, PCS Company from Connell Limited Partnership pending certain regulatory approvals. The acquisition, expected to close in November, will also include the Anchor Lamina Die Components business of Connell, known for its Danly, IEM, Lemppo and Lamina Brands.

The Die Set and Fabrication divisions of Anchor Danly are not included in this acquisition, will continue to remain subsidiaries of Connell Limited Partnership and will continue as a strategic partner of the Components Division of Misumi.

"Dayton Progress Corporation and the Anchor Lamina die components business both leverage product standardization and product blanks, making their production methods highly compatible with our own," said Masayuki Takaya, president and Co-CEO of Misumi Group. "Aside from short lead-time production regimes, Dayton Progress and the Anchor Lamina die components business also have strong technological capabilities, excellent customer service and solid customer bases in the United States and Europe. They are both attractive businesses for their leading positions in the manufacture of die components."

"We have already established our Misumi QCT Model, which delivers high quality (Q) at low cost (C) with short delivery times (T) and no minimum quantity requirements, and built out a supply regime capable of delivering on short lead-times primarily in Japan, China and the rest of Asia. Bringing Dayton Progress and the Anchor Lamina die components business into the Misumi Group establishes a global short delivery-time supply regime virtually overnight and should accelerate deployment of the Misumi QCT Model globally."

"Misumi Group is a growing, successful company that has established a supply chain which delivers low cost and short lead times in Japan, China and the rest of Asia. Ownership by Misumi is a great thing for our company and for customers and distributors of Dayton Progress and Anchor Lamina," said Alan Shaffer, president and CEO of Dayton Progress.

Paul McHenry

WINS GEAR TECHNOLOGY/PTE IMTS IPAD RAFFLE

Paul McHenry, shop supervisor at Tri-City Machine Products, Inc. was the lucky winner of a new iPad at the *Gear Technology/Power Transmission Engineering* booth during IMTS. McHenry, a *PTE* magazine subscriber, was thrilled to hear that his name was drawn following the show. "It goes to show that it is always worth stopping by and talking to vendors and filling out those entry forms at IMTS!" McHenry said. "I enjoy keeping up with the latest technology."

Tri-City Machine is a full service machine shop located in Peoria, Illinois that offers extensive CNC machine capabilities and standard manual machine and job shop equipment. The



Paul McHenry

The *Gear Technology* and *PTE* team would like to congratulate McHenry and also thank all the IMTS attendees that stopped by the booth and helped make the show such a resounding success.

BSA

APPROVES WATER AND WASTEWATER INDUSTRY BRIEFS

When the Bearing Specialists Association (BSA) met September 24-25 in Chicago, Illinois, it approved the publication of two, new Industry Briefs: *Water Treatment* and *Wastewater Treatment*. Both briefs were initiated and drafted by the association's Educational Services Committee and join a mounting body of free, downloadable, educational materials designed to meet the needs of bearing distributors and end users by defining specific end-use bearing applications, critical design factors in those installations, preferred bearing choices and more. For example, in the case of the water treatment and wastewater treatment installations, selected bearings must be suitable for wet environments which, in some cases, also accommodate harsh chemicals. As in the case of all other BSA Industry Briefs, these documents also provide essential background on the overall processes of a specific industry along with an overview of potential bearing installations. *Water Treatment* and *Wastewater Treatment* join Industry Briefs on Wind Power, Poultry, and Cement Processes. All are available as free, downloadable PDF's from the BSA website, www.bsahome.org.

Trelleborg Sealing Solutions

ANNOUNCES PARTNERSHIP WITH THE OMEGA ENVOY TEAM

Trelleborg Sealing Solutions announces its partnership with Earthrise Space, Inc. (ESI) in sponsorship of Omega Envoy, a non-profit space technology developer competing in the Google Lunar X PRIZE (GLXP). The team will compete by safely landing a robot on the surface of the moon and responding back with images and data. Trelleborg Sealing Solutions, a global developer and manufacturer of advanced sealing solutions, will provide sealing education, selection guidance and products for the team's use. "It's a great experience to provide education and watch this team through the many phases from creation to launch of their project," says Antonio Garcia, aerospace segment manager for Trelleborg Sealing Solutions Americas. "The Omega Envoy is a team comprised of diverse specialties and an innovative group to work with. As our products play an integral part in space exploration, it's a great experience to be a part of this project."

"We are excited to welcome Trelleborg Sealing Solutions as our latest partner in the Omega Envoy project," says Ruben



D. Nunez, president and founder of ESI. "The seal education and products they are providing will be put to direct use by our student team members as they build and test hardware for our GLXP mission. Trelleborg's experience is exactly what we need to enhance our team and design for our mission to the moon scheduled to launch in 2014."

Earthrise Space, Inc. is a Florida-based non-profit corporation dedicated to developing space technology in collaboration with industry and academic institutions. ESI's Omega Envoy Project is creating a key set of lunar spacecraft infrastructure, which will fulfill the requirements of the Google Lunar X PRIZE and provide a platform for the delivery of commercial payloads to the lunar surface.


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Gilman USA

ADDS KACEY ENTERPRISES FOR SALES REPRESENTATION

Gilman USA has added Kacey Enterprises Inc., as an outside sales representative to cover portions of the Upper Midwest. Effective Oct. 1, Kacey Enterprises will be promoting Gilman USA products and services by providing marketing and sales support to areas in Northern Illinois, Northwest Indiana, Iowa, Wisconsin (excluding the far northwest part of the state) and Michigan's Upper Peninsula. Based in Glen Ellyn, Illinois, Kacey Enterprises boasts an outside sales staff of six employees and has three customer service representatives. With nearly 40 employees averaging 22 years of experience, Gilman USA serves value-minded engineers with exacting needs and standards throughout numerous industries. The highly skilled, knowledgeable and experienced Gilman USA team will continue to specialize in customized components and engineered solutions for its customers. Gilman USA showcased its service and product offering at the International Manufacturing Technology Show (IMTS) last month in Chicago. The company also recently launched a new website that features a streamlined look to its navigation with its three most popular search tabs: *spindles*, *slide stages* and *service*, prominently displayed for easy access. Gilman USA, previously known as SKF Precision Technologies, was purchased by Christopher Hetzer, Mark Ziebell and Michael Weiland on Sept. 13, 2011.



IMS Research

REPORTS GEARBOX AND GEARED MOTOR SHIPMENTS UP

Precision gearboxes and geared motor shipments were 69 percent higher in 2011 than in 2009 because of increased manufacturing output in 2010 and 2011. IMS Research, recently acquired by IHS Inc., projects further growth in the market for precision gearboxes and geared motors, but expects precision geared product sales to slow through 2016. Demand for precision gearboxes surged as machine tool and industrial robot sales exceeded expectations in 2010 and 2011. Pent-up demand for machine tools and investment in industrial robots for new automobile production lines following the global recession were major driver behind the sharp increase in precision gearbox sales. "There are two reasons behind the strong growth in sales of precision gearboxes and geared motors," said Bryan Turnbough, an analyst with HIS. "One being that demand for precision geared products continues to be more niche than standard industrial geared products, which allows for greater volatility in the precision geared products market; the other being that the standard geared products are continuing to be replaced with precision geared products in greater numbers due to growing demand for higher torque densities and precision." For the full report, visit www.ihs.com.

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