

# McInnes Rolled Rings

## COMPLETES HEATTREAT EXPANSION



McInnes Rolled Rings has completed an \$8 million, 25,000-square-foot expansion to its current manufacturing facility. The addition expands its present heat treat size capabilities by providing the ability to quench and temper forgings up to 144 inches in diameter. With separate high agitation water and polymer quench tanks, this new state-of-the-art bay will significantly expand the daily tonnage capacity to ensure the fastest delivery times available in the industry.

McInnes contracted with Can-Eng Furnaces Intl. Ltd. to design and install the most advanced technology to process large diameter products. The furnace and quench tank designs are augmented by a customized material handling system by Dango and Dienthal Hollerbach GmbH capable of processing loads up to 25 tons. The system's fast transfer from furnace to quench tank provides optimal and repeatable process controls.

"This new bay nearly doubles our quenched and tempered offerings to the power transmission industry and adds the ability to solution anneal large diameter stainless steel rings. Also, the addition of water quenching improves our ability to meet the high property demands of the custom flange markets," said Shawn O'Brien, vice president, sales and marketing. The expanded heat treat operation officially began service on March 1, 2016.



# The Adams Company

## INVESTS IN TURNING CAPABILITIES

The Adams Company, a custom gear and shaft manufacturing company located in Dubuque, IA., recently announced the delivery of a new Okuma LU4000 EX turning machine. This is a state-of-the-art shaft turning machine that will greatly increase both The Adams Company's capabilities and capacity in shaft manufacturing.

Features include: four-axis movement, upper and lower turrets, a retractable tailstock, two meter bed length, maximum 158.75 mm diameter turning capacity, live tooling and y-axis functionality, and capability of holding a  $\pm 0.00025$ " tolerance. Additional unique features with this machine include a self-centering chuck and balanced cutting or "pinch turning." With "pinch turning" you not only get reduced cycle times, but "chatter" is eliminated during the machining process. The specialized workholding will allow The Adams Company to finish shafts complete without having to move them to multiple workcenters.



"The goal," said Steve Arthur, president & CEO, "was to find a machine that would enable us to make complete shafts with keyways, splines, holes, etc. in one operation. The machine had to produce shafts fast while holding some rather tight tolerances. It was a tough challenge, but Okuma hit a home run with the LU4000 EX."

"The Hartwig team has worked closely with The Adams Company for several years, and we knew that addressing their shaft manufacturing was a big priority. We sat down with the team at The Adams Company and together we created an entire process, not just a machine tool," said Jay Montgomery a sales engineer at Hartwig, Inc., the company representing Okuma. "With the LU4000 EX machine we proposed some unique features that allow them to take full advantage of their investment; The Adams Company will now have state of the art shaft turning capabilities that will make them globally competitive in shaft manufacturing. It's incredibly exciting to have truly world-class technology and manufacturing capabilities coming to Eastern Iowa. Their investment is a huge win for them and their customers."

"Not only will this machine enable us to increase productiv-

ity with our current customers,” Arthur added, “but it also has opened the door for new opportunities. It will be an excellent addition to our current custom gear and shaft manufacturing capabilities.”

## Emuge

### APPOINTS MILLING PROJECT MANAGER

Emuge Corp., a manufacturer of taps, thread mills, toolholders, clamping devices and other rotary cutting tools, has announced the appointment of **Dan Doiron** to the position of project manager, milling. In his new position Doiron will be responsible for end mills, tool holders, technical and CAD/CAM program support for milling products.



“I am pleased to welcome Dan to Emuge,” said Bob Hellinger, president. “He brings with him valuable experience in milling applications and five-axis programming. This puts him in a unique position to help us as we expand our milling tool products and guide our customers on the challenges of modern milling.”

“Emuge end mills were always my first choice in moldmaking and machining. I am thrilled to join Emuge and apply my industry expertise to the milling product lines,” commented Doiron.

Prior to joining Emuge, Doiron worked for eight years at Micron (Fitchburg, MA), a medical manufacturer, where he most recently held the position of lead programmer, working with demanding materials in a variety of medical implant applications. Before that, Doiron spent 24 years at Doucette Tool & Die (Leominster, MA) where he acquired years of experience in moldmaking and CNC machining. He attended Leominster Trade School and is a Leominster resident.

## Gleason and Rochester Institute of Technology

### ANNOUNCE NEW DOCTORAL FELLOWSHIP PROGRAM

Gleason Corporation and the Kate Gleason College of Engineering at Rochester Institute of Technology (RIT) have announced the establishment of a Doctoral Fellowship program. The fellowships will be incorporated into RIT’s Ph.D. Engineering Program. Gleason has donated \$300,000 in support of these fellowships.

Brian M. Perry, vice president of Rochester operations at The Gleason Works, said, “Gleason and RIT have enjoyed a mutually beneficial and highly valued relationship for over 100 years. As Gleason celebrated its 150th anniversary in 2015, we felt it

**SUHNER**

**Transmission expert.**



### Spiral bevel gears

Strongest transmission.  
Realizing your production yield.



**SUHNER MANUFACTURING INC**  
43 Anderson Rd, Rome, GA 30161  
706-235-8046  
info.usa@suhner.com

**SUHNER**  
EXPERTS. SINCE 1914.



**Kean**  
TRANSMISSION

*Connecting to the world  
Gear up for the future*



[www.keancn.com](http://www.keancn.com)

Situated in Jiangyin City of Jiangsu Province, China, Jiangyin Ke'an Transmission Machinery Co., Ltd. is a dedicated manufacturer of high-precision bevel gear and machinery parts with 17 years' experience. The company possesses 8 units of US Gleason bevel gear grinding machine, gear milling machine, heat treatment instrument and over 80 units of other auxiliary equipment. With gear processing module ranging from 2 to 30 and gear grinding diameter of 30-980mm, the maximal precision is up to US AGMA13. The company has been US ABS, French BV and CCS – certified.

Motivated by the business philosophy of 'Our professionalism produces high-quality Integrity paves the way to a success', we devote ourselves to the World transmission machinery industry by substantially satisfying customers' need.



**Jiangyin Ke'an Transmission Machinery Co., Ltd.**

ADD: No.8 Huangtai Road, Yunting Industrial Park, Jiangyin, Jiangsu Province, China  
TEL: 0510-8615 1187, 8601 3998 Fax: 0510-8601 2666 Email: ka@keancn.com



important to build on our success with RIT and establish these Doctoral Fellowships. As a leader in the gear industry, Gleason relies on the strong engineering talent that RIT develops here in Rochester. We are proud that Gleason employs almost 100 RIT alumni in our Rochester plant. This fellowship program sponsors valuable research into advanced gear design and systems engineering that will benefit gear producers globally. Gears are used in a wide variety of products across hundreds of different applications. The needs for greater energy efficiency, improved noise characteristics, greater duty cycles and lower costs are key objectives within the research plans.”

## ALD Vacuum Technologies

### ACQUIRES ALD-HOLCROFT

AMG Advanced Metallurgical Group N.V. has announced that ALD Vacuum Technologies has acquired the remaining 50 percent share of their joint venture company, ALD-Holcroft Co. Inc. from AFC-Holcroft LLC. ALD-Holcroft, formed in 2005, acts as the exclusive sales agent for ALD’s heat treatment product lines in the NAFTA region. The acquisition will enable AMG to streamline its heat treatment and metallurgy furnace marketing operations in America, Canada and Mexico.



# Industrial Heating Equipment Association

## ANNOUNCES NEW INDUCTION DIVISION

The Industrial Heating Equipment Association (IHEA) has launched its Induction Division which represents a very important segment of the heat processing industry. This division will focus on educating both the induction OEM’s and end users of thermal process technologies on best practices such as safety and operations, where the technology is best used and keeping the industry updated on the latest innovations related to induction.

IHEA president B.J. Bernard states, “IHEA strives to be the authoritative voice for the entire thermal processing industry. Of course, there are many different ways to apply heat. The Induction Division will focus on the specific issues facing induction suppliers and end-users. IHEA welcomes the new Induction Division and looks forward to working with them to improve the thermal processing industry as a whole.”



The three charter induction OEM’s are Ajax Tocco Magnethermic, Ambrell, and SMS Elotherm, with Taylor-Winfield joining in 2016. The utility members involved are Duke Energy, Georgia Power and Alabama Power along with the Electric Power Research Institute (EPRI). The Induction Division allows IHEA to expand its reach in the heat processing industry to provide critical information and education on induction technology. The addition of induction companies will also benefit all IHEA members by providing great resources and knowledge of numerous innovative areas for members.

The Induction Division is in the process of developing content for IHEA’s 2016 Induction Seminar, which will take place this Fall. They are also developing induction content for IHEA’s website. Division Chair Michael Stowe of Advanced Energy remarks, “This new Induction Division will focus on induction technology and its technical applications. We have had two division meetings thus far with the participation of active induction OEM’s and electrical utilities.” Along with the 2016 Induction Seminar, there will be regular division meetings at IHEA Annual Meeting from April 20–23 in Colorado Springs and later this year at IHEA’s Fall Business Conference.

# PTG

## WINS GREATER CHINA BUSINESS AWARD

Precision Technologies Group (PTG) was the proud winner of the Business Award category at the 11th Annual NW England Greater China Awards in February. Organized by U.K. Trade & Investment (UKTI), the 2016 event was held at The Lowry Theatre, Salford. The award given to PTG was in recognition of the organization's continued successes in developing business and network links across Greater China, including bilateral trade and investment. "We were surprised and honored to secure the 2016 Business Award," comments PTG's Chief Executive Officer, Dr. Tony Bannan, "This further recognition by UKTI of our achievements is clear proof of our ongoing drive to build solid business relationships with organizations that could benefit from our ultra-precise rotor milling and grinding technologies."

Precision Technologies Group has been developing strong business connections with China and Taiwan since the 1980s. The business established a Chinese office in 2007 and has enjoyed increased sales into China year-on-year. In 2010 PTG was acquired by Chinese industrial corporation, Chongqing Machinery & Electric Co. Ltd. (CQME), which has made significant investment in the Rochdale business since acquisition. Typically, 98 percent of PTG's products are exported, with 71 percent destined for Greater China.

The NW England Greater China Awards are sponsored by Cathay Pacific, CIMA, Koehler Group and Orangefield Group and recognize success through the following categories: the Recognition Award, the Education Links Award, the Rising Star Award, and the Business Award. By coincidence, the 2016 Education Links Award was won by Alliance Manchester Business School – an institution that PTG company, Holroyd Precision, has established solid ties with, by helping students gain 'real-world' international business skills.



# Spiral Bevel Gears

- Spiral & straight bevel gear manufacturing.
- Commercial to aircraft quality gearing.
- Spur, helical, splined shafts, internal & external, shaved & ground gears.
- Spiral bevel grinding.
- Midwest Transmissions & Reducers.
- ISO compliant.



Midwest Gear & Tool, Inc.  
15700 Common Rd., Roseville, MI 48066  
Tel: 586.779.1300 midwestgear@sbcglobal.net



## BEYTA GEAR SERVICE

### PUTTING A LIFETIME

OF

### GEAR DESIGN

### EXPERIENCE

### TO WORK FOR YOU

- Reverse engineering
- Gearbox upgrades
- Custom gearbox design
- Specification development
- Project management
- Vendor qualification
- Design reviews
- Bid evaluations
- Tooling design
- Customized gear training
- Equipment evaluation
- Custom machine design

**Charles D. Schultz**  
**chuck@beytagear.com**  
**[630] 209-1652**

**www.beytagear.com**