

## Dontyne Systems

### PARTICIPATES IN U.K. TECHNOLOGY RECEPTION

Dontyne Systems and several other entrepreneurs were invited to a special reception in honor of the U.K. technology industry given by Her Majesty the Queen and His Royal Highness the Duke of Edinburgh at Buckingham Palace on Monday June 9. The Queen and Duke of Edinburgh were joined at the reception by The Duke of Cambridge, The Duke of York (who is a long standing supporter and campaigner for technology and entrepreneurship in the U.K.), the Duke of Gloucester and the Duke of Kent. Approximately 350 guests in total were invited to attend the reception covering business leaders, innovators, academics, investors and tech start-ups from across the U.K. The networking during the event was invaluable. There is a drive by the Duke of York to continue the networking for the further development of the U.K. technology industry. Dontyne Systems will certainly be proposing several projects which would benefit greatly from collaboration with representatives of other companies present at the event to produce world-class products. Dontyne Systems would like to thank David Dunn and Sunderland Software City for the opportunity and the continued work to promote and support the Northeast of England IT sector both locally and across the globe.

## Polygon Solutions

### HOSTS OPEN HOUSE WITH SRMA

Polygon Solutions Inc. is a manufacturer of rotary broach tools for the precision machining industry focused on medical and aerospace parts. Polygon first entered the rotary broach market with an award winning tool holder, and continues to innovate with new tooling for manufacturing hexagon and six-lobe forms in titanium bone screws. These new tools were featured at the recent plant tour for the Southwest Regional Manufacturers Association (SRMA) located in Fort Myers, Florida.

Polygon's advancements with rotary broach technology have continued with a new micro size rotary broach holder for machining small shapes using Swiss type CNC machines and lathes. The innovative design of the tool holders includes sealed bearings for easy maintenance and pressure relief holes for smoother machining operations. However, the main interest of this year's tour was the broaches used for machining titanium fasteners and bone screws.



Polygon has been making the cutters out of high-speed steel, a very hard substrate that resists wear and chipping. The company currently offers M-2, M-42, PM M-4 and PM T-15 varieties for machining different materials. Peter Bagwell, a product engineer for the company, was asked about which materials are used for broaching bone screws, and explained how the choice of substrate material depends on the method of broaching. Bagwell also talked about a new rotary broach material the company is researching.

The demand for rotary broach tools is growing as more exotic materials are being used to make innovative aerospace and medical device fasteners. Polygon is working with bone screw manufacturers to help them choose the right method of broaching in addition to the selecting the right tools. Polygon specializes in standard hexalobular (or Torx-type) rotary broaches in addition to custom shapes and sizes. The six-lobe ISO standard hexalobular form is currently the most popular.

Polygon Solutions has hosted an open house with the SRMA for two years in a row. "We value the partnership with our local customers and suppliers and are happy to bring them in and show them what we're offering," says Bagwell. "We also maintain healthy relationships with other organizations like the Precision Machined Products Association (PMPA) and the National Tooling and Machining Association (NTMA). The company believes participation in each of these networks is key to remaining the leader in rotary broach technology.

Polygon is a newer member to the SRMA, which boasts a wide variety of manufacturing business. "Many people move here and move their businesses here due to the great lifestyle Southwest Florida has to offer," says Bagwell. "However, the exposure to the growing number of innovative medical and aerospace companies is really making it an attractive place for all manufacturers."

## United Grinding Symposium

### CLOSES WITH 1,400 DAILY VISITORS FROM 40 COUNTRIES

The United Grinding Symposium drew to a close in Thun (Switzerland) with an enthusiastic audience. The international nature of the United Grinding Group was demonstrated every day by more than 1,400 visitors from over 40 countries - including 70 international trade journalists - taking the opportunity to learn more about the future of grinding in more than 154 technology presentations and 20 lectures. In addition to technical exchanges, there were many opportunities for networking with colleagues from all over the world. "The symposium is also a way of thanking our customers," explained Stephan Nell, CEO



of the United Grinding Group AG, as he welcomed the participants. "A way of saying thank you for the loyalty and trust which our customers place in us."

The combination of technology presentations and world innovations, cross-cutting lectures and partner stands offered during the symposium allowed visitors to actively experience how the United Grinding Group fulfills its claim to offer its customers more than just the right grinding technology. "We also consciously deal with topics that are not directly connected to grinding," said Nell. "Trends and multiple opportunities for optimization in a wide range of fields play a central role in making our customers more successful and offering them added value in addition to the machines."

The technology presentations offered in four different languages met with a high level of interest. These offered each participant the opportunity to discover specific advantages of the machine innovations or to discuss them in direct dialog with developers. "These presentations are unique," said one participant, "because in just a short time you can understand things that are very difficult to grasp through other information channels." The demonstration of the Schaudt CrankGrind crankshaft grinding machine - among others - impressed visitors with the advantages offered for the first time by a machine of this type.

In addition to presentations on global trends and innovations, topics relating to increasing efficiency during grinding met with a particularly high level of interest. The breadth of the lectures ranged from materials in grinding tool development to increasing productivity in the design of grinding processes, as well as the reduction of grinding forces or processing and auxiliary times.



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During the press conference, Michael Horn, COO of the United Grinding Group AG, explained the background and effects of the internal PuLs program. "It is more than just production optimization. PuLs illustrates our corporate philosophy, which is to align all processes with our customers' requirements, to find and utilize potential for optimization and to minimize waste." The level of actual customer satisfaction is regularly surveyed with the Net Promoter Score (NPS) measuring method. "The worldwide implementation of both standards demonstrates the aspiration by all companies in the United Grinding Group to set benchmarks with their production processes in the grinding machine industry throughout the world," said Nell.

## Gleason ACQUIRES DISTECH SYSTEMS

Gleason Corporation recently announced that it has acquired Distech Systems Inc., located in Rochester, NY. Distech is a leader in the design and manufacture of factory automation systems, serving a variety of customers in the automotive and other industries. Daniel J. Schwab, president of Distech Systems, said, "Gleason and Distech have successfully collaborated on many projects over the past several years, allowing both companies to become very familiar with each other's products, services and strengths. Our company has experienced significant growth recently and Gleason is



the ideal partner to help in sustaining that growth. Gleason's market reach and technical and operational competencies will be important assets in our future success." John J. Perrotti, president and chief executive officer of Gleason Corporation, said, "We are excited about this opportunity and believe that the combined companies will be able to take advantage of significant synergies and provide our customers greater value by offering engineered manufacturing systems solutions with Gleason products as well as supporting Distech in many of the markets it serves." The existing Distech management team and entire staff will remain intact with an ever-greater focus on serving its customers.

# Star SU

## ADDS REGIONAL SALES MANAGER

**Bruce Cowley** has joined Star SU LLC as regional sales manager responsible for the Southern Ohio, Eastern Kentucky, and West Virginia territories. In addition to his new role, Cowley will support the Star SU sales network to further develop their spline gauge and master gear product programs. Cowley is a graduate of Ohio University and for the past 29 years has served the dimensional and gear measurement and gear and spline processing industries in various capacities that include: applications engineering, training instructor, director of international marketing and sales, gear and spline and related tool and gauge tool design, product management, and executive management. Cowley has authored gear industry technical articles, submitted various papers and made presentations at SME, VDI/VDE, IDMW, COGM, and ASPE conferences. Previously, he served as a member of the AGMA as chairman of Gear Data Exchange Committee and participant and contributor to both the Inspection Handbook and Gear Cutting Tool committees.



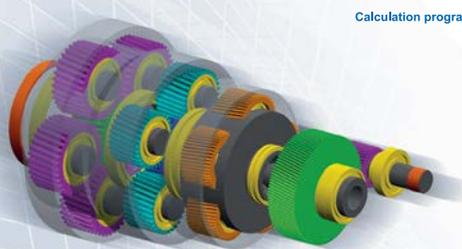
# JRM International

## FORMS PARTNERSHIP WITH STROH DIAMANTWERKZEUGE

JRM International, Inc. is pleased to announce they have formed a partnership with Stroh Diamantwerkzeuge to supply diamond tooling to the North American gear industry. Stroh, located in Bruchköbel, Germany, has been producing high quality diamond tooling for more than 50 years. With facilities in Germany and Brazil Stroh is a supplier to the world gear production industry. Stroh specializes in the production of CVD reinforced diamond dressing rolls for all makes of form, generative and threaded wheel gear grinding machines. Their exclusive low temperature manufacturing process guarantees minimal distortion in the reverse plated form for greater accuracy and repeatability. While much of their production is focused on diamond tooling for the gear industry the engineering staff is capable of designing special diamond tools to meet their customer's special needs.



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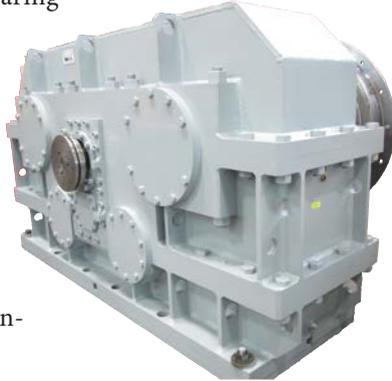
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# Broadwind Energy

## ANNOUNCES SIGNIFICANT GEARING ORDERS

Broadwind Energy, Inc. recently announced an \$8 million gearing order to be produced by its Brad Foote Gear Works, Inc. subsidiary for 2015 delivery. Broadwind President and CEO Peter Duprey stated, "I am encouraged to see our transformation efforts in this business segment starting to bear fruit. With this order, our second quarter gearing orders totaled nearly \$19 million, the highest quarterly order rate in over four years, including a mix of wind and industrial orders. Industrial orders have strengthened in recent weeks due to increased demand for gears used in natural gas production equipment and growth in demand from steel customers. In addition, we recently concluded our gearing plant labor union negotiation, and with our plant consolidation essentially complete, we are seeing visible incremental improvement in our production flow. Together, these factors indicate to us that our turnaround of the gearing business is gaining traction."



# Pentagear Products

## ACQUIRES PECO GEAR METROLOGY DIVISION

Pentagear Products LLC, an Ohio-based company, has acquired Process Equipment Company (PECo) ND Gear Metrology Division effective June 27, 2014. Pentagear Products LLC, established in 2005 has developed gear functional gaging products for the gear industry. PECo's gear metrology division offers a full line of gear measurement products and services. "We are excited about the future with the ND Gear Analytical machines as well as the functional products. This move strengthens the focus of our business in the gear industry," says Marvin Nicholson, owner of Pentagear Products. "Nothing changes in respect to service, support and new product development. We are still building new machines, repowering our competitors machines and offering new functional gages including DOB and double flank inspection systems."



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# AMB 2014

## PREPS FOR MACHINETOOL DEVELOPMENTS

The machine tool industry is confronted with a large number of developments which are influencing investment decisions by its customers. In addition to the still dominant topics of Industry 4.0 and increased efficiency, other topics must be considered, i.e. hybridization of machines, software and IT security, increasing intelligence of machine peripherals and simulation of complete machining processes. Answers to complex requirements will be provided at AMB, the International Exhibition for Metalworking, which is being held in Stuttgart September 16-20. The topic of Industry 4.0 is "varied and interdisciplinary." This conclusion was drawn by the Fraunhofer Institute for Production Engineering and Automation (IPA) in the structural study entitled "Industry 4.0 for Baden-Württemberg," which was conducted on behalf of the Federal State of Baden-Württemberg. In addition to mechanical engineering skills, for example, purely technical implementation of Industry 4.0 also calls for knowledge of electrical engineering, software and information and communication technology. Other areas such as work organization must be included for the purpose of implementation at the organizational level. In order to successfully implement Industry 4.0, it is also necessary to include company-related services

such as technology development, introduction, maintenance or service, as well as technology upgrading and non-technical areas such as general and advanced training.



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