Parker Hannifin

CHOSEN BY VICTORY RACING TO PROVIDE GVM ELECTRIC MOTOR FOR ISLE OF MAN CHALLENGE

Parker Hannifin recently (Elk Grove, IL) announced that it is sponsoring Victory Motorcycles as they compete in the 2015 Isle of Man TT Zero Challenge on June 10.

In addition to being a sponsor, Parker's race-proven, high-performance Global Vehicle Motor (GVM) PMAC electric motors have been selected to power Victory Racing's prototype electric race bikes.

This competition, taking place on the Irish Sea Island, is one of the most demanding races in the world for electric motorcycles. It involves one lap around the island's 37.73-mile mountain course.

"Parker is thrilled to be participating with Victory Motorcycles as they battle for the trophy," said Jay Schultz, Parker's business development manager for vehicle electrification. "In order to improve their chances of winning, we needed to focus on delivering the power density to be capable of producing up to 175 horsepower out of this compact, 8-inch-diameter-by-5-inch-long motor, while providing the efficiency to have the motor help the battery last the entire 37.73 miles of the race. It is very challenging because this is the longest electric motorcycle race in the world. Your battery pack has to last through very high average speeds, approaching 120 miles an hour. Plus, near the end of the race, they have to go up and over a mountain to reach the finish line."

Since 2012, Parker has been supplying GVM motors to power all-electric motorcycles for other competitions — including Daytona International Speedway. The GVM product has evolved through the experience and lessons learned on the track, inspiring Parker engineers to examine many facets of motor design, including the cooling system, the type of magnets used and increasing the peak torque. These efforts have resulted in several patentable design characteristics of the GVM and created a durable, powerful motor for electric and hybrid vehicles.

"The entire Victory team is excited to make history with this effort," said Rod Krois, Victory general manager. "We know that [professional rider] William Dunlop's experience and the continued Victory Motorcycles development of this electric race bike through work with Parker will propel us into a strong future with electric motorcycles."

Added Josh Katt, Victory's product manager:

"Victory Racing selected the Parker GVM series of internal permanent magnet AC motors to power our prototype Victory electric race bikes based on the strength, flexibility and reliability of these motors. Parker's GVM series of motors allowed us to select an ideal motor configuration in both length and diameter and then fine tune the winding to meet our specific performance requirements. This level of flexibility, added to the fact that the motor can be provided as a 'kit' for assembly into our own custom developed housings, made the Parker an ideal fit for our racing bikes, and provides one of the most power dense EV traction motors available. We also appreciate that the Parker GVM series is manufactured in the USA, and that their team provides unrivaled engineering support for custom traction motor development."

EFD Induction

AWARDED ORDERS FOR INDUCTION SCANNERS TO HARDEN SUN GEARS AND OUTPUT SHAFTS

EFD Induction USA (Madison Heights, MI) recently won major orders from two American tier-one automotive suppliers.

The orders involve EFD Induction 'HardLine' type induction scanning systems for the hardening of sun gears and output shafts. Each system comprises an induction scanner, a power source and various optional features.

The first order comprises an EFD Induction Rotary Table (HardLine RT 550) hardening system for treating sun gears, and a vertical scanner system (HardLine VM 1000) for hardening output shafts.

The second order is for two vertical scanner systems, a HardLine VS 300 for hardening sun gears, and a HardLine VL 1000 for treating shafts.

All the systems are powered by EFD Induction Sinac power sources, and feature CNC-based control systems. Each machine also features a

closed-loop cooling system. HardLine is EFD Induction's family of systems for surface and through-hardening, with equipment available to handle everything from small gears with complex geometries up to the giant slewing rings used in modern wind turbines. The vertical scanners supports a range of optional subsystems, including: automated loading/unloading solutions, indexing tables with unlimited position control, double tailstocks and centers for the simultaneous hardening of two workpieces, a HF/MF chuck connection for quick changeovers between high and medium frequencies.

The hardening system can also be paired with an integrated or separate tempering station.

PTDA

WELCOMES THREE NEW DISTRIBUTOR MEMBERS

The Power Transmission Distributors Association (Chicago, IL) recently welcomed three new distributor member companies:

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BK Industrial Solutions, LLC (Beaumont, Texas) is a distributor of motors, material handling/conveyor systems and components, bearings and mechanical power transmission products.

SAECOWilson Limited (Auckland, New Zealand) distributes bearings, motors, material handling/conveyor systems and components, electrical/electronic drives, motor/motion control, hydraulics and pneumatics and mechanical power transmission products.

Warrior Industrial, LLC (McKinney, Texas) is a bearings, motors, linear motion and mechanical power transmission products distributor.

"We are forecasting a tremendous amount of growth over the next several years and we feel as though PTDA will help us accomplish our goals faster," said Greg Bynum, CEO of Warrior Industrial.

GAM

CELEBRATES 25TH ANNIVERSARY

GAM, a manufacturer of high precision gear reducers, servo couplings, and linear mounting kits, recently celebrated its 25th anniversary.

GAM Enterprises began in 1990 when Gary Michalek saw an opportunity to start a long-term relationship with Jakob Antriebstechnik, a German based company that introduced the first servo bellows coupling into the machine tool market. In 1998, GAM Gear was

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formed with current GAM president Craig Van den Avont to start GAM's high precision gearbox company to complement the coupling product line. For 17 years, GAM shared a space with Quality Control Corporation (Harwood Heights, IL), until 2007 when GAM moved to Mount Prospect, IL.

"We started off with just one product and built the company one customer at a time," said Gary Michalek, founder and CEO of GAM. "It is amazing to think about just how far we've come, but I'm excited to see where the company goes in the next twenty five years."

In addition to leading the organization, both Michalek and Van den Avont are actively involved in the community. Van den Avont has developed close relationships with schools in local district 214, mentoring students interested in STEM (Science, Technology, Engineering, and Math), and hosting field trips and career days at GAM so students can get a first-hand view of the opportunities that exist in engineering and manufacturing.

"Building a great company and culture is extremely important to me," said Van den Avont. "However, I am also very passionate about helping students get excited about engineering and manufacturing."

Bauer

OPENS FLAGSHIP PRODUCTION FACILITIES TO HALVE LEAD TIME

Bauer recently opened a new production facility at the company headquarters in Esslingen, Germany.

Bauer Gear Motor has been a leading manufacturer and supplier of gear motors since 1927, when the company's founder, Wilhelm Bauer, first began eliminating the transmission shaft from machine tools and production machinery. Since then it has developed a reputation for producing reliable solutions which are carefully engineered to the requirements of the customer to ensure that the maximum possible efficiency gains are achieved.

Bauer's acquisition by Altra Industrial Motion in 2011 allowed it to expand its global footprint and make investments to advance its engineering facilities and create an integrated, lean manufacturing process which keeps delivery times low, even for completely bespoke, one-off gear motors.

"This new facility represents the next step in Bauer's production concept, which will eventually expand to our key regions around the world," said Karl-Peter Simon, managing director of Bauer Gear Motor. "We have adapted our production facilities to operate as one piece flow, moving assembly lines. This prepares us for fast delivery of both small and large customer orders.

"We have been able to create a connected factory concept whereby our production facilities in Germany are supported with just-in time deliveries from our production factory in Slovakia. With this concept we are prepared for implementing Industry 4.0.

"This means that the two sites are operating on the same production schedule, so there is no delay in the delivery process between customer sign-off of the order and the completion of the order. This will allow us to reduce our current standard production time for configurable gear motors from 10 days to five days."

"As a business we believe that growth comes from investment," said Carl Christenson, Altra Industrial Motion CEO. "Bauer Gear Motor offers our customers the most reliable, efficient Gear Motor solution whether they need a batch run of standard products or a specialized solution e.g. customized motors or shafts. Our investment will allow it to continue to improve our flexibility: to work more closely with customers, to reduce lead times and to grow the customer base around the world.

"We are committed to supporting the continued growth of Bauer both in Germany and around the world. We intend to continue investing in the Slovakian factory and have plans to extend the new production concept to our facilities in the USA, China and Brazil."

The new facilities wholly owned by Bauer Gear Motor GmbH and cover an area of approximately 30,000 m2 in Esslingen, Bauer's hometown. In addition to the new production facilities, the new building includes open plan offices, a conference center and new canteen area with its own kitchen for the staff. The implementation of energy efficiency measures means that energy requirements on-site will be reduced by 30%.

Dr. Stefan Spindler

NAMED NEW CEO INDUSTRIAL AT SCHAEFFLER AG

The Supervisory Board of Schaeffler AG recently appointed Dr. Stefan Spindler as member of the board of managing directors at Schaeffler AG, as of May 1.

Before joining the Schaeffler Group, Spindler was a Member of the Executive Board at Bosch Rexroth responsible for the "mobile applications" business division. He is successor to Robert Schullan, who left the Schaeffler Group at his own request to pursue new career opportunities.

"With Dr. Spindler, we are gaining a very experienced executive manager for our Industrial division who will consis-

tently continue Mr. Schullan's work, in particular with regard to the worldwide customer business," said Georg F. W. Schaeffler, chairman of the supervisory board of Schaeffler AG. "Mr. Schullan has been working for the Schaeffler Group for approximately 30 years. During this time, he has made an outstanding contribution to the successful development of the Schaeffler Group's industrial business. We thank Mr. Schullan for his contribution over the last three decades at the Schaeffler Group and wish him all the very best for his future career. We wish Dr. Spindler every success in his new and challenging role."

Paul Cooke

APPOINTED PRESIDENT AND CEO OF BOSCH REXROTH U.S.

Paul Cooke was recently appointed regional president Americas and president and CEO of Bosch Rexroth Corporation U.S., effective July 1. Cooke will continue as senior vice president sales within the business unit industrial applications at the headquarters in Lohr, Germany until the end of June 2015.

Cooke joined Bosch Rexroth in 1982 and has served in positions of senior leadership at Bosch Rexroth in the United Kingdom and Germany, most recently as senior vice president sales and industry sector management for machinery and engineering. Cooke has over 30 years of experience in both industrial technology and general management. He received his bachelor with honors degree in mechanical engineering from The University of Newcastle upon Tyne, England.

Berend Bracht, who is currently regional president Americas and president and CEO of Bosch Rexroth Corporation U.S. is resigning from the organization for personal reasons.

"We thank Mr. Bracht for his high level of commitment in the many years of service to Bosch Rexroth. We wish him all the best for the future," said Dr. Karl Tragl, the chairman of the executive board of Bosch Rexroth.

Wittenstein AG

WINS THE 2015 HERMES AWARD

Wittenstein AG was recently named the recipient of the 2015 Hermes Award. The award was presented to the company on April 12 at the Hannover Messe Opening Ceremony.

"Wittenstein AG is synonymous with technological expertise and innovative spirit," said Dr. Jochen Köckler, member of the managing board at Deutsche Messe. "The company has been exhibiting at Hannover Messe for many years and, year after year, has been showcasing new products in the field of high-precision electromechanical drives. The winning product is a completely new type of gearhead featuring Industry 4.0 connectivity. This makes it an excellent fit for this year's lead theme: 'Integrated Industry — Join the Network.'"

Wittenstein AG received the Hermes Award for its product "Galaxie" — a high-performance gearhead with independently movable gear teeth arranged in such a way that all surfaces of each tooth are able to engage with the teeth of the fixed outer ring gear. As a result, the Galaxie's force-transmitting surface contact is more than six times greater than that of conventional gearheads. The teeth are driven by a combination of a polygon on the input shaft and, on the output side, a segmented antifriction bearing and a tooth carrier with segmented outer bearing ring. The meshing pattern is a logarithmic spiral — another first.

The Hermes Award was presented by Dr. Johanna Wanka, federal minister for education and research.

"The Galaxie high-precision gearhead is an outstanding development and a prime example of Germany's innovative drive," Wanka said. "Wittenstein AG has proved that with courage, creativity and determination a completely new kind of gearhead can be created. The company has also succeeded in embodying the future of industry — the networking of production and services — in its gearbox."