

Great Lakes Industry

AWARDED MICHIGAN CLEAN ENERGY GRANT

A \$2.5 million Clean Energy Advanced Manufacturing (CEAM) award was granted to Great Lakes Industry Gear LLC, a subsidiary of Jackson, MI-based Great Lakes Industry Inc. (GLI). The award is from the Michigan Department of Energy, Labor and Economic Growth (DELEG) and is comprised of a \$2 million grant and a \$500,000 low-cost loan to support GLI's planned expansion into wind turbine gear manufacturing.

Nine small manufacturers were awarded \$15 million in grants and \$5 million in loans from the state of Michigan through the CEAM program, which is funded by the American Recovery and Reinvestment Act of 2009. The program is designed to help Michigan businesses diversify into high-growth, clean-energy industries.

GLI was selected from among 40 applicants representing more than \$105 million in proposed projects.

"So Great Lakes Industry is going to convert its existing gear manufacturing operations to meet the growing demand for precision gearboxes needed in large wind turbines. At the moment, there are no known Michigan companies producing these large format gears, and there are only 10 such companies in the entire United States," says Michigan Governor Jennifer Granholm, in her weekly radio address where she announced these CEAM grants.

"This means that more than 50 percent of these gears have to be imported. So by the state and federal governments partnering with Great Lakes Industry, we can grow a Michigan company, diversify our economy, create jobs and provide a domestic source for wind turbine gearboxes."

Great Lakes Industries manufactures carburized and hardened axle shafts, large diameter ring gears, induction heat treated spur gears, heat treated drive shafts, starter jack shafts, gear and rack sets, custom gear sets, pressed assemblies, welded roller chain sprocket assemblies, shaft assemblies and many other power transmission components.

"GLI has established itself as a world-class manufacturer of gears for the mining, off-road, construction and agricultural equipment markets since 1979," says Lawrence Schultz, president of GLI Gear. "The ability to expand over the next several years into commercial production of



utility-grade wind turbine gears presents the opportunity for significant growth for GLI, but also the creation of several hundred direct and ancillary manufacturing jobs for Jackson and Michigan. We still have a long way to go to secure the necessary customer commitments and secure financing, but the financial support and endorsement of DELEG is an important milestone from which we intend to establish a position of market leadership in the manufacture of large precision gears for the rapidly growing, utility-grade wind turbine industry."

Wenzel/Xspect

APPOINTS GM, SALES MANAGER

Andy Woodward has been named general manager of North American operations for Wenzel/Xspect Solutions, a subsidiary of Wenzel Group GmbH, as announced by Frank



Andy Woodward

Wenzel, managing director of Wenzel GmbH.

Woodward comes to Wenzel/Xspect from the United Kingdom, where he has been managing director for Wenzel's operations for the past eight years. He spent fifteen years with Hexagon Metrology Inc. in various engineering and general management positions at Hexagon's DEA and Brown and Sharpe operations in the United Kingdom.

Woodward holds a bachelor's degree from the University of Birmingham. He and his family are relocating to the Detroit metropolitan area. He says: "I intend to continue to build on the solid business model for metrology equipment and services that Xspect Solutions has created over the past six years. By combining Xspect's broad customer base and marketing network with Wenzel's Gear Tec gear measuring machine technology and Wenzel's expanding 3-D scanning products, we should be able to make additional market penetration in related product and industry areas here in North America."

Giles Gaskell was announced as the North American sales manager for 3-D imaging products for Wenzel/Xspect Solutions, subsidiary of Wenzel Group GmbH, by Andy Woodward, North American general manager for the company.



Giles Gaskell

Woodward comments: "Wenzel continues to broaden its product base through the addition of unique new 3-D imaging technologies to complement Wenzel's CMM metrology products. As a result, we are focusing new sales and marketing resources to help develop markets for these new products in North America. Giles Gaskell will be directing those efforts and brings a wealth of technical and business development experience in the areas of non-contact scanning for reverse engineering and 3-D imaging technology. He has worked with many of Europe's most prestigious design, engineering and manufacturing companies on reverse engineering and non-contact inspection projects."

Gaskell previously worked for GKS-Laser Design Inc.,
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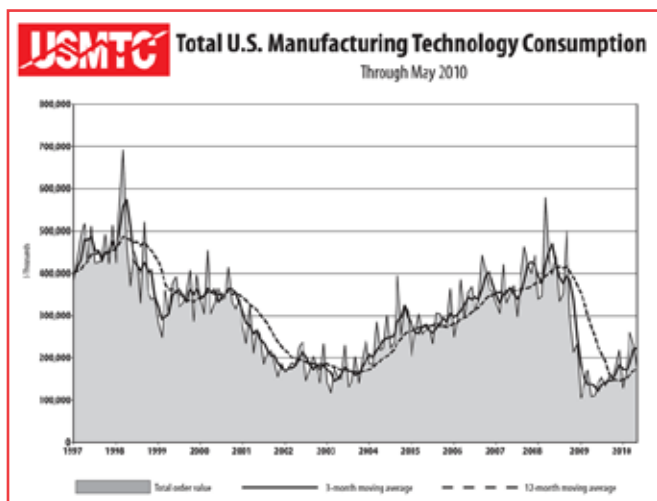
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SDP/SI Setting Ideas into Motion

where he was the business development manager. Prior to that, he was director of business development for NVision Inc., a manufacturer of non-contact measurement and 3-D imaging hardware and software. He founded 3-D Scanners Ltd., a U.K.-based manufacturer that introduced the first hand-held laser scanners to the U.K. market.

A mechanical engineering graduate from Aston University in Birmingham, England, Gaskell is a member of the Society of Manufacturing Engineers and the Institution of Mechanical Engineers. He and his family reside in Linden, MI.

Manufacturing Technology Consumption up 52.9 Percent



U.S. manufacturing technology consumption (USMTC) in May totaled \$178.34 million, according to the American Machine Tool Distributors' Association (AMTDA) and The Association for Manufacturing Technology (AMT). This total is based on actual data from companies participating in the USMTC program, and it is down 22.9 percent from April but up 58.6 percent from the total of \$112.42 million reported for May 2009. The year-to-date total of \$966.63 million is up 52.9 percent compared with 2009.

"While we would like to see first quarter growth rates continue, we are not surprised by the typical second quar-

ter ebb and flow in capital spending," says Peter Borden, AMTDA president. "We have seen an additional month of substantial orders, which helps to confirm that a sustainable recovery is taking place despite the buzz of those forecasting a W-shaped rebound. Industry forecasts for the year have been revised slightly upward by many sources, and if Congress passes the bonus depreciation allowance, this could accelerate growth even further."

USMTC is also reported on a regional basis for five geographic breakdowns: Northeast, Southern, Midwest, Central and Western. The full report can be viewed at the AMT's website, www.amtonline.org.

Koepfer and Carl Zeiss

FORM BUSINESS PARTNERSHIP



From left to right: Greg Lee, president of Carl Zeiss IMT, Dennis Gimpert, president of Koepfer America, Andrew Sisler, vice president of sales for Carl Zeiss IMT, Cory Sanderson, vice president of sales and marketing for Koepfer America, joined for a business partner agreement between the two companies in the United States and Canada.

Carl Zeiss IMT is expanding its reach into all areas of gear metrology in its business partner agreement with Koepfer America for the United States and Canada. The agreement provides improved technical and marketing sup-

port related to all areas of CMM gear metrology offered by Carl Zeiss.

Carl Zeiss offers machines to measure both parallel axis and bevel gears from the smallest gears used in microtechnologies up to gears four meters in diameter using the *Gear Pro* software package. Prismatic features can be measured in seamless integration with the *Calypso* metrology software package.

Koepfer America has sold parallel axis gear manufacturing equipment, service and support since 1989. Koepfer is involved with AGMA, The Association for Manufacturing Technology (AMT), the Society of Manufacturing Engineers and other technical groups.

Chuck Miller

JOINS SOLAR ATMOSPHERES OF SOUTHERN CALIFORNIA

Solar Atmospheres of California (SACA) is one step closer to the establishment of its state-of-the-art vacuum heat treating facility in Southern California with the hiring of Charles (Chuck) Miller as manager of maintenance and facilities engineer.

Miller comes to Solar after years of supervisory experience in the heat treating industry. Miller's areas of expertise are vacuum furnace maintenance, pyrometry, instrumentation, hot zone fabrication and repair, among many other areas of proficiency. His prior employment duties included regional maintenance engineer for Bodycote Thermal Processing and prior to that, maintenance supervisor for Hitech Metallurgical, both located in the Southern California region.

Derek Dennis, SACA president states: "We are very fortunate to have somebody with Chuck's in-depth knowledge and experience on the SACA team. I'm looking forward to working with Chuck in facility engineering and start up, along with the continuing day-to-day operations of the heat treating plant."

Miller's first assignment will be the installation of Solar's support equipment and installation of Solar's first three furnaces to include the west coast's largest commercial vacuum furnace, at 24', with a double car bottom loading system. All furnaces are engineered and manufactured by

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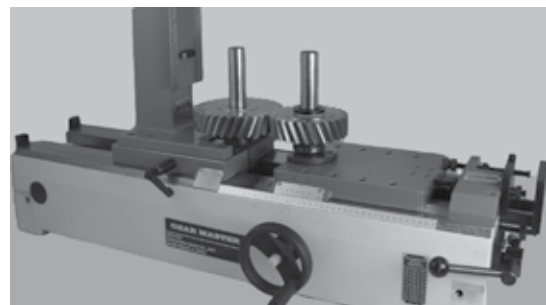
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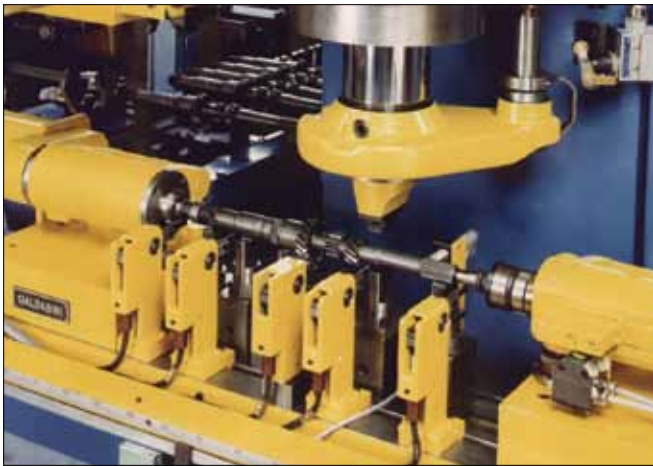
Solar Atmospheres' sister company, Solar Manufacturing of Souderton, PA.

Gear Technology

APPOINTS MANAGEMENT, INVESTS IN MACHINERY

Star SU

REPRESENTING GALDABINI



A cooperation agreement has been reached between Galdabini and Star SU for sale and after-sales service of manual and automatic straightening machines. The agreement is the result of Galdabini's desire to reach the North American market with local support to strengthen the long-term partnership with its customers.

Galdabini manufactures straightening machines from its factories in Switzerland and Italy. Opening local representative offices in Beijing and Singapore has been part of its effort to direct attention to new developing markets.

Galdabini is the long-term partner for advanced straightening solutions for various products in the automotive, electro-mechanical, steel and forging, military, oil and mining, aerospace, marine and train industries. Products that can be processed on Galdabini equipment include gear, cam, crank, starter, axle and propeller shafts; synchronizing rings and gear selector forks; steering racks, pinions, ball screws and drill bits. Other products are bars and profiles, such as linear guides, elevator guides, square racks, rails and special profiles; forged and bright round, square and rectangular bars and gun barrels.



Joe Campa

Two senior level managers were promoted by Gear Technology. Joe Campa, formerly quality assurance manager, is now director of engineering. Jerry Flores was promoted from quality assurance representative to quality manager.

Campa is a ten-year veteran of Gear Technology. He was previously employed by Boeing Space and Communications Group as a procurement specialist. He has held quality management positions with Kosmo Gears and Newman Machine Works. In this new position, Campa is responsible for Gear Technology's integrated engineering department.

Flores' new management responsibilities include implementing and maintaining the company's ISO9001:2008/AS9100 AMS quality standards, inspection, employee training, safety, internal and external audits, performance monitoring and lean manufacturing.

"We are pleased to recognize the dedication and performance of these two long-term employees who have demonstrated their commitment to the company's business goals and customer service value standards," says Tom Marino,



Jerry Flores



A newly rebuilt Fellows CNC Gear Shaper is one recent investment Gear Technology made.

president of Gear Technology.

Marino has also recently made some new investments in machinery, including a newly rebuilt Fellows CNC Gear Shaper in an effort to break into green energy.

“This advanced gear shaper will allow us to cut gears up to 20 inches in diameter, so we can expand our customer base with companies in the clean and wind energy industries,” says Tom Cruse, director of operations at Gear Technology. “We will now be able to fabricate larger gears and full gearbox designs and assemblies.”

The other major acquisition was a Zeiss Prismo Navigator Coordinate Measuring Machine, featuring *GearPro* software, providing complete gear measuring and analysis. “It’s a versatile system that can handle a large range of gear configurations, including spiral bevel gears, Gleason straight bevels, internal and external spur gears, worm gears, helical gears and internal and external splines up to 25.50 inches in diameter,” Flores says.



The Zeiss Prismo Navigator CMM was acquired by Gear Technology.

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The Prismo Navigator is equipped with the Zeiss Vast Gold Probe Head, *Calypso* measuring software and integrated with a rotary table. “With this new Zeiss Prismo Navigator Coordinate Measuring Machine, Gear Technology is making a significant investment in advanced gear manufacturing technology,” Flores says. “It’s the latest addition in our ongoing commitment to offer our customers the best quality, value and service in the industry.”

U.S. Gear

CONTRACTS UNITED PROCESS CONTROLS

New furnace controls and data acquisition from United Process Controls have been ordered by U.S. Gear, a division of AxleTech International, a General Dynamics Company. The order includes a surface combustion pusher furnace outfitting with CQI-9 compliant furnace controls based on Protherm 600 controller, FurnaceDoctor infra-red multi-point gas analyzer and Waukee Flo-Tronic electronic flow meters.



The *Protherm 9800* software application will integrate the control systems of the pusher and other batch furnaces and streamline heat treating operations at the company’s Chicago plant. The software performs data acquisition, recipe management, monitoring and analysis.

This upgrade investment will bring an older piece of equipment into CQI-9 compliance, so there is greater accuracy in the heat treat cycles, as well as providing the company with comprehensive process documentation.