



MANUFACTURING NEWS

SOUTHEAST

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Vol. 25 No. 4 April 2021

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Solar Atmospheres South Carolina Facility Awarded GE Aviation Approval

With its latest award, all Solar Atmospheres facilities can provide GE Aviation requirements for vacuum heat treating and brazing services.



The Solar Atmospheres Greenville, SC, facility has been awarded GE Aviation approval. With this approval, all Solar Atmospheres facilities are now an option for customers with GE Aviation requirements for vacuum heat treating and brazing services.

Steve Prout, President of Solar Atmospheres' Greenville facility, said: "We are proud to once again provide

our customers in the Southeastern U.S. with another regional option for aerospace vacuum thermal processes, saving them time and money while continuing to deliver the high level of quality required."

"With the ability to support vacuum thermal processing needs ranging from development cycles to 50,000 lb. *Continued on Page 54*

RFID Tool Management Solution

"Tool identification systems are becoming a highly requested option from manufacturers, especially when purchasing a new CNC machine tool," said a Caron Engineering spokesperson. "Many machine tool OEMs offer their own basic proprietary systems

which allow tools with RFID tags to be loaded into the machine. Since this option is specified by the OEM and installed at the factory, it is based solely on the builder (OEM) specification, not the end user's specification. This is very challenging for customers who utilize a variety of different OEM machines and have existing tool ID systems in use."

Caron Engineering offers a retrofit tool identification and data management (ToolConnect) system that automatically reads and writes tool pre-setter data between the machine control and RFID tags embedded in toolholders.

This system uses a customized RFID read station and an intuitive interface tailored to the user's tool load *Continued on Page 54*



Sesé Locates New Operations

Spanish auto manufacturer Sesé Industrial Services will open new operations in Chattanooga, TN. This manufacturing plant will assemble axle components for Volkswagen Chattanooga's (VW) electric Atlas and SUV. Sesé Industrial Services will bring 240 new jobs and over \$42 million in investment by 2022.

This entity under the parent company, Sesé Industrial Services U.S. Corp, plans to build a 300,000 sq. ft. manufacturing plant in the Enterprise South Industrial Park. The company has a long-standing relationship with Volkswagen and recently won a seven-year contract *Continued on Page 54*

Tooling Tech Group Opens Automation Facility in Tennessee

Tooling Tech Group (TTG) has completed construction of a new 72,000 sq. ft. facility in La Vergne, TN, consolidating its Automation division previously housed in two buildings in Murfreesboro, TN. This TTG division is experienced in the development and manufacture of assembly, material handling, dispensing, sorting, testing, welding and fastening solutions for the automotive, cosmetic, electrical, construction and life sciences industries. The new facility, located 18 miles southeast of the *Continued on Page 53*

Jrlon Acquires Metalworx

Jrlon Inc., headquartered in Palmyra, NY, has announced the acquisition of Metalworx, Inc. located in Summerville, SC. Metalworx, a high performance contract manufacturer, specializes in precision machining and complete metal fabrication. The addition of Metalworx adds AS9100 certification, ITAR registration and ISO-13485 compliance to the Jrlon portfolio.

Jrlon is a privately held custom manufacturer of specialty metal and high-performance plastic and rubber products.

They provide molding, machining *Continued on Page 53*

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Feature Editorial



Drilling/Tapping/Threading

Solid Carbide End Mill



New short and long versions provide extra advantages.

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Medical Manufacturing

Tooling for Medical Manufacturers

Both standard and specialized tooling are available.

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Applying Technology

Special Projects Receive Special Service



Cleaning solutions meet production challenges as they arise.

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Metallforming/Fabricating/Waterjet

15 kW Fiber Laser

Cutting head offers enhanced precision in both thick and thin sheets and profiles.

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Replacement Parts

High-Speed Motor Spindles



New series of motor spindles with high power density.

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Custom Miniature Thrust Ball Bearings in Screwdriving Spindles

Auburn Bearing & Manufacturing recently assisted a customer application involving custom screwdriving spindles. The thrust bearings were located on shafts that are parallel to each other on 0.750" center lines.

"The customer had been purchasing a standard-sized miniature thrust bearing from a large bearing manufacturer for many years," said an Auburn spokesperson. "The three-piece bearing was being used in a fairly high volume (20 to 30 bearings per month) in the custom screw driving equipment and was being replaced on a regular basis.

"Because of the bearing's open style, it is subject to all sorts of contaminants and hard to keep grease in. The bearings needed to be completely taken apart and lubricated on a weekly basis. With this weekly maintenance, the typical life of each bearing was three months, and at the end of its life, you could see significant wear on all com-



ponents of the bearing."

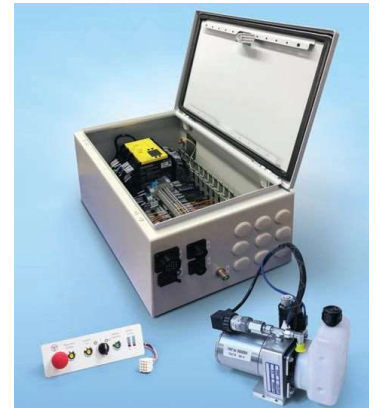
The spokesperson continued, "The customer came to us frustrated by the loss of time and productivity they were experiencing from replacing a significant amount of prematurely failing miniature thrust ball bearings. They were looking for a new solution that would extend the bearing's life by keeping lubrication in and keeping debris out, as well as reduce the downtime and inconsistencies caused by these bearing failures."

Auburn Bearing proposed a one-piece banded thrust ball bearing that would utilize a special lubricant. This custom design would serve to protect the bearing from debris and other contaminants, as well as contain the grease inside the bearing. "After a three-month trial run using this new solution, the customer found that the bearing race and balls remained in great condition without having to perform any maintenance on them," said the spokesperson.

According to Auburn Bearing, the solution increased the life of each bearing by over 200%; improved machine consistency by reducing bearing contamination and bearing failure; and reduced the cost of labor and downtime by eliminating the need to clean and re-lubricate bearings, previously performed on a weekly basis.

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www.auburnbearing.com

Electromechanical Equipment Optimized for Design and Manufacturability



Aved Electronics has introduced custom electromechanical box build assemblies that are fully optimized for design and manufacturability (DFM) to provide a complete connectorized and 100% tested solution, supplied as a single product with one SKU.

Aved Electromechanical Box Build Assemblies provide multiple OEM benefits including DFM, component selection and sourcing, documentation, 3D modeling, manufacturing and 100% operational testing. Featuring one SKU which simplifies inventory control, these assemblies can also incorporate fully connectorized front-to-back panels.

Aved Electromechanical Box Build Assemblies are suited for OEMs, integrators of industrial controls, large scale security systems, power distribution panels, and industrial and medical robotics—offering a solution with regard to back engineering, real-world sourcing experience, dock-to-stock efficiency, KanBan and inventory management systems.

Aved is ISO 9001, ISO 13485, and ITAR registered.

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