Titanium Industries Announces Organizational Appointments

Titanium Industries, Inc. recently announced two significant appointments in its organizational structure. Bruce Krol was named Director of Quality and Greg Tamillo was named Western Regional Sales Manager, USA. Both people bring a new perspective to their position and will provide new and valuable insight to both the quality and sales organizations.

Mr. Krol, Director of Quality has served in positions including Quality Assurance Director, Quality Systems Engineer and Senior Manufacturing Engineer that served the FAA manufacturing, repair and refurbishment, automotive and electronics industries. He brings

Titanium From Thyssenkrupp VDM Ensures Safety In The New A 380 Super-Jumbo

The part itself is relatively small for such a huge aircraft, but it’s of crucial importance for the safety of the new Airbus A 380. Hidden away in the undercarriage of the double-decker super-jumbo is a dense forged part in which numerous holes have been drilled to form a pipe system. Without this titanium component, the plane’s brakes would not work. It is needed for the brake hydraulics of the world’s biggest and most advanced passenger aircraft, and it has to be able to withstand severe loads and pressures of 300 bar. To meet these special requirements, the part is made from the titanium alloy Ti6Al4V, produced at ThyssenKrupp

Boeing and Russian Technologies/VSMPORAVISMA Sign Titanium Agreement

Washington, 06/24/10 – Boeing [NYSE: BA] and VSMPO AVISMA Corporation (VSMPO-AVISMA) today announced the signing of a new five-year contract extension. Boeing will buy titanium forgings and rough-machined titanium forgings from VSMPO-AVISMA that will be used on the Boeing 787 Dreamliner, 777 and 737 commercial airplane models. The agreement was signed during an official visit by the President of the Russian Federation Dmitry Medvedev to the United States.

Under the terms of the agreement, delivery of titanium forgings and rough-machined titanium forgings was

ATI Selects Siemens VAI for New Advanced Integrated Hot-Rolling Mill

Pittsburgh, PA -- 6/21/10 -- Allegheny Technologies Incorporated (NYSE: ATI) announced that it has selected Siemens VAI Metals Technologies (Siemens Industry, Inc.) to design, engineer, and supply the hot-rolling mill for ATI Allegheny Ludlum’s Brackenridge, PA new advanced specialty metals hot-rolling and processing facility. As previously announced, the total cost of the facility, including the hot-rolling mill, is estimated to be approximately $1.16 billion and will take approximately four years to complete. The new facility is designed to produce ATI’s flat-rolled titanium and titanium alloys, nickel-based alloys and specialty alloys, grain-oriented electrical steel,
What's New in Titanium?

Solar Atmospheres, Inc. Breaks Ground in California

Solar Atmospheres, Inc., Souderton PA announces that they broke ground on May 3, 2010, for their new plant site in Fontana, California. Attending this significant occasion were Paul Biane, San Bernardino 2nd District County Supervisor, Scott Vanhorne, Field Representative to the Supervisor, Olin Lord, President and Gregg Lord, Vice President, Stewart Development/Lord Construction and Derek Dennis, President of Solar Atmospheres of California.

This new addition to the Solar Group of Companies will bring a “Green Field” vacuum heat treating and brazing facility to the west coast. According to William R. Jones, CEO, Solar Atmospheres, Inc., “this was a major and serious decision considering the current market conditions, but the project will definitely be worth it in the long run.” The Solar Atmospheres of California new site is located in San Bernardino County, slightly northeast of where Interstate 15 and 10 intersect and is approximately 40 miles east of downtown Los Angeles in the area known as the “Inland Empire”.

The building itself will be a total of 25,000 square feet with a two-story office building included. The plant will be equipped with roof skylights, a poured cement foundation and insulated frame work. All of the vacuum furnaces will be powered by an electric, 3-mega watt, power entrance from Edison Electric. Required process gases will be supplied by Air Products. Water cooling for the furnaces will be a single-close loop, air cooled heat exchanger that will be providing 1500 gal/minute. Also, the building will include two 10-ton, full span bridge cranes that will service the entire facility.

The furnaces for the new plant are now being constructed by Solar’s sister company, Solar Manufacturing. The new plant will start out with four production furnaces of varying sizes. The first is a 24 foot deep, high performance, car bottom type vacuum furnace with a load capacity of 50,000 lbs. The second is a six foot deep, 10 bar quenching capability, high vacuum furnace that can process up to 3,000 lbs. loads. This furnace will allow us to process many types of parts, including those requiring our patented low pressure vacuum carburizing service. The third furnace is a five foot deep, 2 bar cooling, high vacuum furnace. The new site will also have a five foot deep re-circulating air temper furnace. It is anticipated that these furnaces will serve many industries within the greater Southern California area. Included in these industries would be aerospace, high end metallurgy, such as titanium, tantalum and columbium, alloys of stainless steel, and the heat treatment of tool steels.

Solar Atmospheres of California is expected to have about 30 employees within the first two years of operation. Although the primary employment will be from the local area, selected specialists will be relocating from the Solar east coast plants to assist in the initial plant start-up. Sales are projected to be $12 million in two years. The official opening date of this new state-of-the-art facility is expected to be the first week of September, 2010.

For more information, please contact the President of Solar Atmospheres of California, Derek Dennis, at 951-304-3790 or email him at ddennis@solaratm-ca.com.
What’s New in Titanium?

Boeing and Russian Titanium VSMPO
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extended from 2011 through 2015. Financial terms of the agreement are not being disclosed.

“This contract is another milestone in Boeing’s longstanding relationship with Russian Technologies/ VSMPO-AVISMA -- our strategic partner and supplier in Russia,” said Jim Albaugh, Boeing Commercial Airplanes president and chief executive officer.

VSMPO-AVISMA has been a Boeing partner and supplier of raw material and titanium parts through a series of long-term purchasing agreements dating back to 1997, when Boeing awarded its first contract to the Russian titanium producer.

“This agreement continues to build upon the mutually beneficial relationship between our two countries,” said Sergey Chemezov, chairman of the board of VSMPO- AVISMA and chief executive officer of the Russian Technologies Corp, the major shareholding company of VSMPO- AVISMA. “We will continue to partner with Boeing to maintain a strong alliance and work jointly to increase productivity and create high-quality products for Boeing airplanes.”

In July 2009, Boeing and VSMPO-AVISMA opened a 50/50 equity joint venture, Ural Boeing Manufacturing (UBM), based in Verkhnyaya Salda, Russia. UBM is a new, state-of-the-art facility that machines titanium forgings for the world’s most technologically advanced airplane – the 787. Boeing forecasts that over the next 30 years it will spend as much as $27 billion on Russian titanium, aerospace design-engineering services and a variety of other services and materials.

Boeing and the Russian aerospace industry enjoy a mutually beneficial partnership that began 15 years ago. Two key Boeing centers are located in Moscow. The Technical Research Center develops projects related to cutting-edge technology including new materials, prototyping, and aerodynamics. The Boeing Design Center supports all major Boeing Commercial Airplanes programs and employs over 1,250 engineers through contracts with leading Russian engineering firms. Boeing also serves as an advisor to the Sukhoi Superjet 100 airplane program.

VSMPO-AVISMA is the world’s largest titanium producer, occupying more than 25 percent of the world titanium market and the major supplier of titanium to Russia. The main shareholder is the State Corporation “Russian Technologies,” owning more than 70 percent of the company. VSMPO- AVISMA has long-term contracts with the leading foreign aircraft manufacturers. For more information contact: Dmitry Krol, Boeing International Corporate Communications, phone: +7 495 797 3415 email: dmitry.krol@boeing.com

Mike Tull, Boeing Commercial Airplanes International Communications, Phone: 206 766 2919; email: michael.j.tull@boeing.com

Titanium Industries Announces Appointments
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with him significant experience in quality systems and procedures, project management, training and development, quality engineering, supplier development and cost reduction development and implementation. He holds a BS in Industrial Engineering from University of Massachusetts, an MS in Operations Management from Lesley University and continued his education with CS Business Management from Harvard Business School. Mr. Kroll reports to Brett Paddock, President and CEO of Titanium Industries, Inc., working from the corporate office in Rockaway, NJ.

Mr. Tamillo, Western Regional Sales Manager has served in a variety of positions within the metals distribution network including National Sales Manager, Manager International Sales, Western Regional Director, Quality Control Manager and most recently VP New Business Development. He brings with him a strong track record of customer service, management and leadership skills, quality and procedural improvement and both program and product line management. He attended California State University, Fullerton. Mr. Tamillo reports to Dan Blood, Western Regional Manager, working from Titanium Industries Santa Fe Springs, CA facility.

Titanium Industries is a global manufacturing distributor of titanium, nickel based alloys and other metals with five facilities in the USA, three in Europe and one each in Canada, Taiwan and India that provide value-added services. They hold a variety of approvals and certifications including ISO9001:2008, AS9100 Rev. B and many aerospace airframe and engine, medical and industrial customer specific approvals. For information related to this story contact: Jeff Wise, VP Sales & Marketing at JWise@titanium.com
What's New in Titanium?

University of Akron Blue Team Wins Defense Metals Technology Center Student Titanium Pedestrian Bridge Design Competition

Akron, Ohio — The University of Akron Blue Team has taken First Place in the Student Titanium Pedestrian Bridge Design Competition sponsored by the Defense Metals Technology Center (DMTC) of North Canton, Ohio.

Judges chose Ball State for Second Place. They also selected three teams for Honorable Mention. First Honorable Mention was the University of Akron Gold Team. Second Honorable mention was Kent State University, and third Honorable mention was Miami University of Ohio.

Winners were announced Thursday night at a dinner and awards ceremony at InfoCision Stadium, the new University of Akron Football complex. Guests included Akron Mayor Don Plusquellic and University of Akron President Luis Proenza.

“What were pleased and surprised by the quality of the submissions,” said Victor J. Scaravilli, Chairman and CEO, Mole Constructors, Inc., an international tunnel builder, speaking on behalf of the judges, “They demonstrate that a young generation is emerging in America that can handle future our infrastructure challenges.”

The new Titanium Pedestrian Bridge will help solve a logistical problem at the Quaker Square Inn at the University of Akron, which serves as a residence hall, hotel, and conference center. The development is fenced off from the main Akron campus by railroad tracks, which forces pedestrians to use remote bridges to access the main campus.

Government and private funding will be sought for the bridge construction, which will be the first bridge in the United States constructed exclusively of titanium.

Titanium has advantages over other metals. It weighs much less than steel, yet is just as strong, if not stronger. It does not rust and is corrosion-resistant to salt water and chlorine. Many experts believe that bridges secured with titanium would be better protected against a possible collapse than conventional steelsupported bridges.

This increasing use of titanium, according to the DMTC, should help I lower its cost and, hence, allow the military to use more armor plate-quality titanium in life-saving armaments.

“This Competition shows that armor quality and structural titanium can readily be applied to meaningful creative commercial projects,” says Charles Clark, executive director of the Defense Metals Technology Center (DMTC). “We also achieved a goal of inviting design, architecture, and engineering schools in our region to showcase the importance of Titanium in a major civilian use.”

Judges this spring winnowed the final nine participating university teams to five. The surviving teams personally presented their entries to the judges earlier this spring.

The DMTC will provide scholarship money to students on the final teams. Likewise, it will convey grants to their institutions for the study of specialty metals in commercial applications.

“Titanium is poised to take its place as the metal of the future,” adds retired 16th District Ohio Congressman Ralph Regula, who was instrumental in the formation of the DMTC. “Moreover, I hope this Design Competition will prod industry to produce more affordable quality titanium for commercial and military applications.”

In 2007, Congress funded the DMTC, headquartered at Stark State College, as a U.S. Army Center of Excellence. This Design Competition is in line with the DMTC mission to make known the multiple applications of Titanium. The University of Akron participated in the Competition sponsorship.

Along with Scaravilli and Regula, judges were Lillian A. Kuri, Program Director of Architecture, Urban Design and Sustainable Development, Cleveland Foundation. Leila L. Vespoli, Executive Vice President and General Counsel of First Energy Corporation; Job H. Lippincott, Publisher, Rubberworld Magazine; Paul Thomarios, President, Thomarios Companies, and Jeffrey Spangler, principal, R. E. Warner & Associates.

For more information, contact: Charles D. Clark, Executive Director, phone: 330-305-6605, Email: cclark@defensemetals.org, or visit their website at www.defensemetals.org
What’s New in Titanium?

AEROMET Enhance Welding Capapability

Reinforcing its position as a global supplier of titanium fabricated products to the aerospace and defence industry, UK based manufacturer Aeromet International Plc has launched its new Argon welding chambers.

Operations Director Stuart Wright explains: “Aeromet has recently invested over £40,000 on two custom built titanium argon welding chambers replacing the open flood box system at our Welwyn Garden City facility. The welding chambers represent a growing demand from our customers to provide additional value added process to reduce cost and increase turnaround time. We are seeing up to 80% savings in our argon consumption and set up and labour time savings of up to 13%.

The chambers are custom designed sealed enclosures which provide a pure and inert atmosphere during the welding of titanium and addresses the problem of non conformance due to weld contamination which are repeatedly and consistently surpassing the quality requirements of our customers. To date we have had no customer rejections.

The 12 glove port chamber can be operated by two fully qualified personnel at any one time reducing weld time and increasing argon gas savings. The internal capacity of the chamber enables us to weld components up to 1000mm (W) x 1600 (L) x 1125 (H). The smaller 2 glove port chamber has an internal size of 700mm (W) x 750 (L) x 500 (H) with a typical argon flow rate of 8 litres per minute compared to 40 litres per minute using the open flood box system, so the cost savings and environmental impact of the chambers is second to none. This investment reiterates the continued support we are able to offer our customers around the globe and reinforces our position as the largest titanium forming facility in Europe.”

Visit their website at www.aeromet.co.uk

Media enquiries please contact; Contact details: Graham Hutchins, Marketing Manager, Tel. 0044 (0)755 445 2457 or E-mail Graham.Hutchins@aeromet.co.uk -- For Technical queries please contact; Peter Sutton AWeldI, Senior Project Engineer, Tel. 0044 (0)1707 351537 or E-mail Peter.Sutton@aeromet.co.uk

First Assays From ARGEX’s East Hervieux Target Report Results Similar to West Hervieux

• 827 feet (252.0 metres) of 0.29% V2O5, 37.50% Fe2O3 and 10.76% TiO2 in holes HE-10-001
• V2O5 values of 0.61% over 5.4m from 3.0m to 8.4m and 0.60% over 6.0m from 261m to 267m in hole HE-10-001
• 77 holes (more than 10,500m) now completed on the East Hervieux Occurrence

Montreal, Quebec – 7/21/10- Argex Silver Capital Inc. TSX-V:RGX Argex or the Company reports additional final results intersected from drilling at the La Blache property, East Hervieux occurrence. Many of the intersections include internal dilution of mineralization by unmineralized dykes. Argex in nearing completion of the expanded drill program at East Hervieux and the drill will be moving back to the West Hervieux target to follow up on previous results as well as to test new targets including recently identified massive titaniferous magnetite outcrop occurrences.

The first hole drilled by Argex on the East Hervieux occurrence intersected several zones of massive and semi massive titaniferous magnetite mineralization. From the bedrock surface to last intersection of the mineralized core in hole HE-10-001, a weighted average...
What's New in Titanium?

First Assays From ARGEX
Continued From Page 5

grade of 26.23% Fe, 6.45% Ti, 0.16% V, 37.50% Fe2O3, 10.76 % TiO2 and 0.29% V2O5 over a core length of 252m (827 feet) from 3m to 255m downhole. This intersection is not representative of the true thickness of the mineralization.

ARGEX Acquires Property to Target Additional Vanadium, Iron and Titanium

• Acquired by staking 165 km2 property surrounding Consolidated Thompson Iron Mines Ltd.’s (CLM) Lac Brule Property
• Drill core intersections from 2004 returned up to 23.09m (true width) of 59.72% Fe2O3 and 31.97 % TiO2

Montreal, Quebec – June 21, 2010 - Argex Silver Capital Inc. (TSX-V:RGX) is pleased to announce that it has acquired by staking a 100% interest in the Lac Brule region, the Lac Brulé Property. The Lac Brulé region is underlain by the Labrieville anorthosite (≈1010 Ma), which is part of the allochthonous polycyclic belt of the Grenville geological province.

The proximity of the newly staked Lac Brule Property to Argex’s La Blache property is approximately 50 kms. In the Lac Brule region Fe2O3 grades appears to be slightly lower that at La Blache where in contrast TiO2 grades appears to be 150% of the grades at La Blache. Argex’s Lac Brule property is approximately 600m away from the drilling reported by Quinto Technology Inc.

For more information contact Michael Dehn, President & CEO, Argex Silver Capital Inc 514-788-8923
(Full press releases are available in the on line titanium library section of the ITA website at: http://titanium.org/librarysearch.cfm. Type in press release in the keyword search.)

STRATCOR, Inc. Continues To Produce And Market Specialty Vanadium Products

Hot Springs, AR; —The Evraz Group S.A. – which owns a majority share of Strategic Minerals Corporation (Stratcor) – consolidated its global vanadium sales and marketing activities serving the steel industry into its wholly-owned marketing organization – East Metals S.A., based in Lugano, Switzerland. The change affects the marketing of ferrovanadium, produced from Evraz’ own vanadium oxide, and Nitrovan® vanadium produced by Vametco Alloys (Pty.) Ltd. in South Africa.

As part of this consolidation, East Metals has established an independent office in Pittsburgh that will serve the company’s North American steel customers. Many of the sales and technical personnel who had been serving this industry on behalf of Stratcor, Inc. have moved to East Metals (North America), LLC, to provide them with the expertise required to supply this market.

The change does not affect the rest of the Stratcor organization, which is also part of the Evraz Group. As a result, Stratcor, Inc. will continue to operate the Hot Springs, Arkansas plant and its Pittsburgh office will continue to market the products produced at Hot Springs and related facilities. Those products are primarily the master alloys used by the titanium industry and the vanadium catalysts used by the chemical industry. The sales contacts for these products will continue to be:

Vanadium Oxides and Chemicals: Bill Booher
Vanadium Aluminum, Master Alloys: Vince Rocco
Customer Service: Tammy Patton

At the same time, a limited portion of Hot Springs’ vanadium-oxide production will continue to be converted to ferrovanadium and VanoXTM vanadium used by the steel industry. The sales contacts in Pittsburgh for these products will continue to be:

Ferrovanadium, VanoXTM Vanadium, Tungsten:
Dick Wiesler
Customer Service: Tammy Patton

For more information visit the website at: www.stratcor.com
What's New in Titanium?

GRANDIS TITANIUM Offices Moves to Ranch Santa Margarita

GRANDIS TITANIUM is pleased to announce relocation to a new main office and warehouse facilities in Rancho Santa Margarita, California. New facilities are double in size from their current facilities in Foothill Ranch and will allow better serve existing and new Grandis Titanium’s customers. In addition to facilities in R.S.Margarita, Grandis maintains offices in Glenmont, OH, Albany, OR, Harbin, China and Ekaterinburg, Russia, as well as warehouses in Paramount, CA and Rotterdam, Netherlands and ferro-titanium production facilities in Sheffield, UK and Dezhou, China. Grandis Titanium is a worldwide supplier of titanium sheets, wire, bars, slabs, ingots, also titanium sponge, ferrotitanium and titanium scrap. Grandis Titanium was established in 1994 and now serves markets in North and South America, Europe, Asia, Australia and Africa, supplying titanium to customers in more than 35 countries worldwide.

New address
GRANDIS TITANIUM
30422 Esperanza
Ranch Santa Margarita, CA 92688, USA
Ph.+1-949-459-2621 Fax +1-949-459-6241
WWW.GRANDIS.COM


The SBA’s Philadelphia District Office announced that the winner of the 2010 “Eastern Pennsylvania and Region 3 Small Business Exporter of the Year” awards is William R. Jones, Chief Executive Officer, of Solar Manufacturing, Inc. In honor of these achievements, Dave Dickson, SBA’s Philadelphia District Director, will appear at Solar Manufacturing, Inc., 1969 Clearview Road, Souderton, PA 18964 on May 4, 2010 at 1:00 p.m.

Solar Manufacturing, Inc., manufactures vacuum furnace systems that heat treat, braze, carburize, and nitride metal parts. The systems are used in various industries/markets, including aerospace, medical, automotive, petro chemical, power generation and commercial and captive heat treating. Solar has established a market internationally for the vacuum furnace systems and its customer list includes many industry giants.

“Every year, the SBA’s Philadelphia District Office awards the ‘Small Business Exporter of the Year’ award to an individual who uses creative overseas marketing strategies and effective solutions to export-related problems to grow their business,” said Dickson. “As this year’s award winner, William Jones more than appropriately joins the roster of award winners from previous years and across the country whose enterprising initiative has benefited not only their own business and employees, but the community at large. With this award, the SBA applauds Mr. Jones for his exemplary contributions to this Nation’s business community and economy.”

The “Small Business Exporter of the Year” award is presented on a district, regional—Region 3 consisting of Pennsylvania, Delaware, Maryland, Virginia, West Virginia, and Washington, D.C. – and national level.
What’s New in Titanium?

**TITAL – Large titanium casting facility: approved and expanded**

-- Large components can be produced using centrifugal and gravity casting process
-- Product range extended – new international orders

Bestwig, Germany. By installing their new large titanium casting facility in December 2008, TITAL has broadened their product range and has been awarded new orders from its international clientele. At the same time the company has further strengthened its position as a strategic supplier for Airbus France. In the meantime a new centrifugal casting facility for large components has been installed.

Customers from the aerospace industry include EADS, Premium Aerotec and Airbus in Toulouse. For the Eurofighter from EADS as well as the A320 and A380 airliners from Airbus TITAL produces large titanium castings with an edge length of up to 1.20 m (47”). Currently TITAL is negotiating with its customers for the production of additional large titanium castings. The casting furnace which is 14 m high (45 feet) facilitates the production of components with a weight of up to 300 kg (660 lbs) and an edge length of up to 1.500 mm (60”).

In the middle of 2009 the tenth large casting part went into serial production. “The large casting furnace has delivered an optimal performance. The operating processes are stable, the utilization satisfactory,” says Philipp Jerusalem, Director Sales and Marketing at TITAL. “We have achieved our aim to offer our customers a reliable European alternative for large titanium parts”, explains Jerusalem. Until now this market has been dominated by American companies.

Also in 2009 TITAL was certified by Airbus France for the assembly of titanium castings. For TITAL this was the first step to be qualified as strategic supplier for further machining of components for Airbus France.

TITAL has recently refitted a centrifugal casting furnace in the large casting facility. “With this second furnace we are able to further extend our product portfolio”, explains Dr. Ralf Gerke-Cantow, Head of Production. “Now we have a technical backup system which improves the reliability.” Titanium can be cast using centrifugal as well as gravity casting techniques. Whenever one of these techniques has been accepted and certified by the customer for a component, it always has to be applied for that specific component. Dr. Gerke-Cantow: “There is no alternative. What has once been qualified for centrifugal casting must not be cast as a gravity casting.” – Although there are no differences regarding the quality. The new crucible capacity is 500 kg (1,102 lbs.) which holds four times the material of the existing crucible at 125 kg (275 lbs). No other casting supplier in Europe can manufacture bigger titanium castings than TITAL.

When using the centrifugal casting technique the molten titanium material is poured into the casting mold which is rotating (spinning) around its center axis. Through the centrifugal forces the molten material fills the mold cavity. During the solidification process the molten material assumes the shape of the ceramic mold.

About TITAL GmbH: TITAL supplies industry leading companies around the world in the field of aerospace, defense, motor sport and industrial systems with sophisticated aluminum and titanium investment casting products using the lost wax process. TITAL was founded in 1974 and in 2006 the management took over the company with the support of DZ Equity Partner GmbH - an investment company of the DZ Bank AG from Frankfurt. Today the company employs 400 people with 2009 revenue of €48M or $63M.
What's New in Titanium?

MAKINO T-Series 5-Axis Hmcs Provide A Titanium Machining Advantage™

MASON, Ohio—May 2010—Makino announces the new T-series five-axis horizontal machining centers with ADVANTiGE™ technologies built specifically for titanium aerospace parts such as edge frames, pylons and bulkheads. These technologies can provide manufacturers with four times the productivity and double the tool life of conventional titanium machining operations.

“The T-series with ADVANTiGE technologies are a powerhouse for titanium machining, capable of reducing part production times by 75 percent while increasing tool life by 100 percent,” says Mark Larson, Makino’s Titanium Process R&D Manager. “We’ve created a line of machines that will change the way people think about titanium machining like our MAG-series did with aluminum aerospace structural parts.”

The first machines of Makino’s T-series include the T4 and T2 five-axis horizontal machining centers. The T4 provides X, Y and Z axis travels of 4,200mm, 2,000mm and 1,000mm respectively, and can hold workpieces up to 5,000kg. For smaller titanium parts, the T2 provides X, Y and Z axis travels of 2,000mm, 2,000mm and 1,800mm respectively, and can hold workpieces up to 5,000kg.

Compact Five-Axis Spindle
The T-series’ HSK-A125 spindle is Makino’s most powerful spindle to date, providing higher torque, horse power, and clamping force than all predecessors. Its compact design combines the latest induction motor with twin inverter drive technology for higher torque (740ft-lbs, 133HP continuous; 1,100ft-lbs, 200HP peak). The spindle is supported by roller bearings to ensure high rigidity, which keeps the energy loss to one-half that of conventional gear-driven spindles. The spindle delivers a maximum speed of 4,000RPM. The A and C-axes increase part accessibility with a ±110 degree A-axis rotation and a 360 degree continuous C-axis rotation.

ADVANTiGE Technologies
Makino’s ADVANTiGE™ technologies overcome the traditional challenges of low metal removal rates and limited tool life associated with Titanium machining. By improving spindle performance, coolant delivery, vibration damping, machine rigidity and cutting strategies, ADVANTiGE is capable of four times the productivity and double the tool life of conventional machining technologies.

ADVANTiGE technologies include Autonomic Spindle Technology that utilizes spindle sensors to measure displacement caused by excessive cutting forces; high pressure, high flow coolant for improved cooling, lubrication and chip evacuation; a vibration damping system to proactively reduce chatter and vibration; a Coolant Microsizer System that improves tool cooling and lubricity for extended tool life, and a rigid machine construction that suppresses vibration for reduced tool chipping and improved metal removal rates. Learn more about ADVANTiGE here.

Increased Productivity
The T-series machines include an automatic pallet changer system that provides continuous operation and eliminates costly downtime for part changeovers.

These machining centers can also be integrated with an automatic pallet transfer and storage system in a highly flexible Makino Machining Complex (MMC) for extended periods of unattended operation. This automation system assigns work and initiates operations automatically, maximizing spindle utilization for increased productivity.

See for Yourself
The T4 five-axis horizontal machining center with ADVANTiGE technology is currently on display at Makino’s Global Titanium R&D Center. Call 800-522-3288 to set up your appointment to see this technology in action.

About Makino
A world leader in advanced CNC machining centers, Makino provides a wide range of high-precision metalcutting and EDM machinery, including horizontal machining centers, vertical machining centers, 5-axis machining centers, graphite machining centers, and wire and Ram EDMs. Our flexible automation solutions provide reduced labor costs and increased throughput in a variety of production volumes and designs. With Makino engineering services, we offer industry leading expertise for even the most challenging applications across all industries. For more information call 1.800.552.3288, or visit www.makino.com.
The new Airbus A 380 is soon to start operating out of Germany for the first time. On June 11, scheduled flights will commence on the busy routes to Asia and North America. Five days earlier, the German national soccer team will depart for South Africa on board one of these aircraft to take part in the World Cup. Theoretically, the world’s largest passenger plane can seat up to 850 people. The super-jumbo is 24 meters high, 73 meters long and weighs around 560 metric tons. And it would be much heavier still were it not for the use of titanium. This material combines extremely high strength with low weight, good mechanical and thermal properties and corrosion and erosion resistance. Titanium can be as hard as steel, but weighs only half as much. Not least, that helps significantly reduce fuel consumption. That’s why the engines, undercarriage, wing structures and airframe all contain large amounts of titanium. “As aircraft become bigger, they will need more and more titanium,” says Helmut Jost, Project Manager Marketing and Regional Management at ThyssenKrupp VDM. “Around 140 tons of titanium are ordered to manufacture an Airbus A 380, and roughly 120 tons for the Boeing Dreamliner 787.” The titanium content of modern jumbo jets accounts for 10 to 15 percent of their overall weight.

Special nickel alloys are not just used in aircraft components, but also in the tooling used to produce specific parts. These parts are made from carbon-fiber composite (CFRP), another important material in the construction of the latest aircraft. The lightweight plastic with embedded carbon fibers is cured in molds made of high-performance materials supplied by ThyssenKrupp VDM. In addition to wear resistance, a particularly important advantage of these materials is their low thermal expansion between room temperature and 200°C, the curing temperature of the plastic. “Certain nickel alloys, like the Pernifer 36 used here, display only a tenth of the thermal expansion of steels in this temperature range. That means that when curing and cooling CFRP parts in such molds, no thermal stresses occur and the parts are not damaged,” explains Dr. Heinrich Scherngell, Head of Aerospace Sales at ThyssenKrupp VDM. This ensures that the high safety requirements of the aerospace sector are met. The modern giants of the air surpass all their predecessors in power, size and looks. The particular mechanical and thermal loads to which the aircraft are exposed at high altitude call for materials capable of withstanding precisely these conditions while at the same time offering low weight, high strength and passenger comfort. “Modern aircraft construction would be inconceivable without titanium and nickel alloys,” emphasizes Dr. Scherngell. “They allow us to make airplanes lighter, bigger and more energy efficient.” ThyssenKrupp VDM (Werdohl) is one of the world’s leading suppliers of high-performance materials, special alloys and titanium mill products. Its main customers are in the plant engineering, energy, oil, gas, electrical, electronics, automotive and aerospace industries. The company has production facilities in Werdohl, Altena, Unna, Siegen and Essen as well as a sales office in Frankfurt/Main. It also has two plants in the USA and a global sales and distribution network. In the 2008/2009 fiscal year the company employed roughly 1,700 people and generated sales of more than 740 million euros.
zirconium alloys, and stainless alloys for sheet, strip, Precision Rolled Strip® products, and continuous-mill plate product forms.

“The Siemens VAI next-generation totally integrated hot-rolling mill is the critical part of ATI’s new hot-rolling and processing facility. We believe our new facility will provide unsurpassed manufacturing capability and versatility in the production of our unique range of flat-rolled mission critical specialty metals. It also provides the capability to manufacture advanced new alloys that we currently do not produce,” said L. Patrick Hassey, Chairman, President and Chief Executive Officer. “We expect our new hot-rolling and processing facility to further transform our Flat-Rolled Products segment’s operating performance across business cycles by significantly improving our cost structure and expanding our position in key markets through new capabilities, faster throughput, improved productivity, and higher quality.”

Werner Auer, CEO of Siemens VAI Metals Technologies added, “This is an outstanding opportunity for Siemens VAI to work with ATI on this next-generation totally integrated hot-rolling mill. We know of no other facility like this one in the world. We believe this is the most powerful and most technically advanced hot-rolling mill ever built.”

Pat Hassey continued, “Our strategy is to invest in the best equipment in the world. It requires our specialty metals technology and proprietary knowledge to run this equipment effectively. Further, we believe in U.S. manufacturing and believe a U.S. manufacturer can compete profitably in the global economy. To do so, ATI must have unsurpassed manufacturing capabilities and innovative new products that differentiate our Company in the global marketplace.”

Key facts on the Advanced Specialty Metals Hot Rolling and Processing Facility:

Unique alloy versatility – Common facility to produce hot bands for titanium and titanium alloys, nickel-based corrosion and high temperature alloys, zirconium alloys, super and duplex stainless alloys, grain-oriented electrical steel, and austenitic, ferritic, and martensitic stainless alloys

Product Capability – Hot bands capable to produce finished product up to 78.62 inches, or 2 meters

Facility Design – 88 ½ inches, or 2250 millimeters, hot rolling system with continuous variable crown system and a 7-stand, 4-high finishing mill

Power – Separating force over 3 times current capability

Product Processing and Handling – Advanced walking beam furnace, laminar cooling, and slab and plate handling

Automation – Fully automated facility providing safe working environment with best available controls technology and increased productivity

Environment-Friendly – Utilizes the best available technology in all areas.

Allegheny Technologies Incorporated is one of the largest and most diversified specialty metals producers in the world with revenues of $3.1 billion during 2009. ATI has approximately 8,600 full-time employees world-wide who use innovative technologies to offer global markets a wide range of specialty metals solutions. Our major markets are aerospace and defense, oil and gas/chemical process industry, electrical energy, medical, automotive, food equipment and appliance, machine and cutting tools, and construction and mining. Our products include titanium and titanium alloys, nickel-based alloys and superalloys, grain-oriented electrical steel, stainless and specialty steels, zirconium, hafnium, and niobium, tungsten materials, and forgings and castings. The Allegheny Technologies website is www.ATImetals.com.

With its headquarters in Linz (Austria), Siemens VAI Metals Technologies (Siemens VAI) is a global leader in providing technologies, solutions and services for the mining, iron and steelmaking industries as well as for the flat rolling sector of the aluminum industry. Siemens VAI is the only plant builder worldwide to offer its customers services and solutions across all process steps and throughout the entire plant lifecycle. This includes products for all production steps from ore to the finished product, mechanical equipment, electrics and automation, complete IT solutions as well as innovative service and modernization packages. As a supplier of complete solutions, Siemens VAI is in the position to optimally adapt its products, solutions and services in order to provide its customers with “Completely Integrated Solutions.”
Emerging titanium applications in commercial and military aerospace will be presented at TITANIUM 2010, the 26th annual conference and exhibition, which will be held Oct. 3-6 at the Gaylord Palms Hotel and Convention Center, Kissimmee, FL. The International Titanium Association (ITA), Broomfield, CO, serves as the host and sponsor of TITANIUM 2010.

Aerospace, by any yardstick, continues to be the bellwether global business sector for the titanium industry. Two long-awaited, titanium-intensive commercial jetliners—the Boeing 787 Dreamliner, with first deliveries slated for All Nippon Airways later this year, and the Airbus A350, expected to be ready for commercial launch in 2013—provide heightened expectations for near-term business opportunities among titanium stakeholders.

Marion C. Blakey, the president and chief executive officer for Aerospace Industries Association (AIA), Arlington, VA, will share her insights as the distinguished luncheon speaker for the conference. According to information provided by the AIA previewing her presentation, Blakey will discuss her association’s work in Washington and address three major business themes.

First, she will affirm that the aerospace industry remains a pillar of the U.S. economy and cite the key economic drivers for this sector. Second, she will offer observations on the titanium industry’s current and future role in supporting the aerospace and defense industry. In particular, she will outline revisions in Pentagon defense procurement rules. In addition, she will weigh the potential impact of new technologies, such as the Next Generation Air Transportation System. “NextGen” represents the unfolding transformation of the National Airspace System as it evolves to a satellite-based system of air-traffic management from a ground-based system of air-traffic control.

Finally, Blakey will talk about future challenges for the aerospace workforce and suggest steps needed to enhance education and training at various levels of the industry, along with its strategic supply chain and vendors. For the titanium industry, she will point out this means working to develop young science majors who can pursue rewarding careers in metallurgy.

AIA is heavily involved in a coalition to build the U.S. science and engineering workforce for the future. Blakey became the eighth full-time chief executive of the association in 2007. Before that, she served a five-year term as administrator of the Federal Aviation Administration.

Dawne S. Hickton, vice chairman, president and chief executive officer of titanium producer RTI International Metals Inc., Pittsburgh, will share her perspective on the state of the commercial aerospace industry and its titanium suppliers. Just three years ago, financial markets were booming and the stars were perfectly aligned for titanium suppliers as lucrative new commercial aerospace programs, such as the 787 and A380 were ramping up. The titanium supply chain had signed long-term agreements and funded major capital investments—all of which were justified by forecasts that proved demand far exceeded supply for years to come.

In her remarks, Hickton will ponder how forecasters and industry leaders could have missed the economic meltdown of 2008-2009. Where were the warning signs for the looming sub-prime mortgage crisis, the global recession, 10-percent unemployment rates, or the 50-plus million pounds of excess titanium inventory created by the once-popular, take-or-pay contracts?

Hickton will analyze the run-up and decline in titanium during this turbulent period and put this recent business cycle into perspective relative to other cycles in the industry. She will examine the current state of the commercial aerospace segment and the anticipated demand for titanium over the next 12 months. Hickton also will assess threats to long-term titanium growth in the commercial aerospace segment, including demographic drivers, buy-to-fly trends, new titanium airframe applications and the challenge from competing....
Bill Bihlman, senior associate with AeroStrategy LLC, Ann Arbor, MI, a management consulting firm founded in 2001, provided market observations to preview his address to the conference. Assessing the relationship between the titanium industry and the aerospace sector, Bihlman said there’s a move to align sourcing of raw materials with production, as production moves towards low-cost countries. “Understandably, this has been a bit problematic for the various commodity groups, including titanium,” he said. “Since there is a current overstock of titanium, it’s hard to predict if there will be a significant future shortage. There’s a general trend towards near-net shape (part design). This is especially true for nickel-based alloys and titanium due to the high commodity prices over the last five years.”

As for applauding titanium’s “showcase” applications on the Boeing 787, he identified landing gear, which was driven by weight savings, and fasteners, driven by the compatibility with the carbon fiber-reinforced polymer (CFRM) fuselage. Regarding how titanium business may be affected in the near term from the recent mega-mergers of commercial airlines (Delta/Northwest; United/Continental), Bihlman said the general trend is to reduce capacity and, in many cases, permanently retire old, fuel-inefficient aircraft. “It’s likely that there will more new orders with the economic recovery. However, due to the enormous backlog, it unlikely that there will be any significant capital investments in the near term.”

Robert Hill Jr., president of Solar Atmospheres of Western PA, unit of Solar Atmospheres Inc., Souderton, PA, will review basic vacuum and pyrometry technology, relating this review to the critical heat treatment of titanium airframe components and recent heat-treating capacity expansions—capital investments and technical innovations that were deemed necessary to support this area of growth for the aerospace industry.

For example, 15 percent of the Boeing 787’s airframe is titanium. The four main areas where the largest concentration of titanium is used are: landing gear and fittings (using Ti 5553); floor structures; extrusions; and nacelles—the last three all specifying Ti 6-4. Hill will cite the 787 as one of the most revolutionary leaps in the history of manufacturing, from the perspective of material requirements. Boeing, in designing the 787 airframe with 50 percent of its weight as composites, has necessitated the use of more titanium for compatibility and extended use of newer, near-beta, alloys for higher strength components.

During the last 10 years Hill has specialized in the development of large vacuum furnace technology and titanium processing capabilities for Solar Atmospheres. Last year he was the recipient of the ITA’s prestigious “Titanium Achievement Award,” which recognized him as a leader and pioneer in developing vacuum-thermal processing solutions for the aerospace industry.

Dr. Yoji Kosaka, manager of metallurgy at Timet’s Henderson, NV, Technical Laboratory, will present a technical paper on the superplastic forming (SPF) properties of “TIMETAL®54M” (Ti-5 Al-4V-0.6 Mo-0.4 Fe alloy), a new titanium alloy developed by Timet. The paper will compare SPF properties of Ti-54M to those of Ti-64 and potential benefits in practical SPF operations will also be discussed. According to Kosaka, the Ti-54M alloy is well suited for SPF and exhibits strength comparable to that of Ti-6Al-4V along with superior machinability under most machining conditions. Ti-54M fine-grain sheets exhibited SPF capability at temperatures as low as 1300 F showing elongation higher than 1000 percent. Flow stress of the fine-grain sheet at slow-strain rates is two to four times lower than that for Ti-64, which is beneficial in
Nominations must be submitted by August 6th to qualify for 2010 consideration.

The International Titanium Association (ITA) is seeking nominations for an individual, group of individuals or organization within the titanium industry who has shown significant achievement towards improving and expanding the use of titanium. This award is intended to distinguish and remunerate commendable work in an area too little rewarded.

An appropriately inscribed plaque will be presented along with the monetary award of $20,000 at the ITA Annual Meeting held during the ITA TITANIUM 2010 Conference in October.

Possible candidate(s) qualifications and considerations may be:

• Significant achievement towards improving and expanding the use of titanium.
• Promoting titanium products into new applications or enhance the performance of titanium in an existing application.
• Unveiling a technical breakthrough that specifically expands the use of titanium.
• Inaugurating or influencing outstanding research or marketing programs leading to the expansion of the titanium market or titanium products.
• Initiating or creating important new and imaginative uses for titanium.

All nominations will be presented to the ITA Grant Committee. Please include any supplemental materials (letter of recommendation, certificates, etc) that would be beneficial for the committee to review in determining the final nomination selection. A valid nomination will consist of a Biographic Sketch, current curriculum vitae of nominee and other information, and why the individual(s) should be the recipient of the award.

Please call the ITA at 303-404-2221 or by email at ita@titanium.org to learn more details and to request the criteria for nomination. You do not need to be a member of the association to participate so call today!
The International Titanium Association is the Secretariat of the REACH Titanium Metal consortium. The first deadline for submitting the REACH dossier is fast approaching. The REACH Titanium Consortium has been established as a vehicle to help manufacturers and importers of titanium to fulfill their obligations under the EU REACH Regulation. The main tasks of the Consortium include jointly preparing the registration dossier and sharing relevant studies and costs to help lighten the load.

If you are a company that is affected by REACH, it is now possible to obtain a Letter of Access.

For those members of the SIEF who are contemplating becoming a full member of the Consortium, please be advised the General Assembly has approved a deadline of 1 October, 2010 for full membership when the work of the consortium will be effectively finished and the joint registration dossier will have been submitted. There will also be an increase in the new member premium effective as of 1 July, 2010.

If you wish to register for the letter of access, please contact:

International Titanium Association (ITA)
Secretariat for REACH Titanium Consortium
2655 W. Midway Blvd., Suite 300
Broomfield, Colorado 80020 USA
secretariat@reachtitaniumconsortium.org  Email
001-303-404-9111  Facsimile

The token, the joint submission name and the other information specified in Article II of the LOA agreement will be sent to you after payment has been received to allow you to complete your individual registration requirements.

If your organization imports titanium sponge, powder, ingot or electrode into Europe you will need to register for REACH and completion of the Substance Sameness survey distributed through the ITA.

Up to date information may be found at the Titanium Metal Consortium Website www. reachtitaniumconsortium.org or you may contact the ITA by email or phone at 001-303-404-2221 or secretariat@reachtitaniumconsortium.org.

We look forward to answering any questions you might have.
For over ten years, the International Titanium Association (ITA) has presented the premier course on everything Titanium. This comprehensive workshop has been presented all over the world and in several languages. Now, for the first time, this course is available online.

This comprehensive workshop provides detailed information on the types, uses, and properties of common titanium alloys. You will gain an understanding of applied titanium metallurgy fundamentals.

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- Students receive a certificate of completion from the International Titanium Association. Students will have 16 weeks to complete the course at their own pace and leisure.
- This is the only course of its kind dedicated to titanium metal
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**Cost is only**

- $249 for ITA Members
- $325 for Non-Members

To learn more about this exciting new workshop visit: [www.titanium.org](http://www.titanium.org)
**Full details of the classified ads can be found on the ITA website at www.titanium.org**

**Job Postings:**

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Makino is one of the leading providers of advanced precision machining, tooling, and custom solutions for business and industry. We are currently recruiting unique types of Process Development Engineers! These individuals will join our R&D team developing innovative machining techniques in Titanium for Makino machine tool products. The positions will be located in our North and South American Headquarters in Mason, Ohio (in Cincinnati, OH).

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- DOE or other technical analysis experience (FMEA, root cause analysis, etc.)
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Process Development Engineer

Position will require: In addition, qualified individuals should possess a degree in a Engineering/Science degree, 5+ years of experience with machining hard metals, specifically titanium, using CNC horizontal or vertical machines. The general description of requirements are needed for this position as noted below.

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Members can place complimentary classified ads by emailing the text to sblicker@titanium.org.
ITA members will soon receive the ITA Members Only *TITANIUM Bulletin*

The ITA *TITANIUM Bulletin* will provide ITA members more in depth information regarding all ITA Activities. Topics will include: ITA Committee activities, annual TITANIUM Conference updates, REACH Consortium information, Global Titanium Communication (which would include postings from other titanium associations globally as well as updates on projects from the titanium committees on ASTM, ASM, etc.). The Bulletin will be distributed quarterly.
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Thank you for your continued support. Every issue of the TITANIUM Update Newsletter will recognize members that have renewed their investment with the International Titanium Association.

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Founded in 1984, the International Titanium Association is a nonprofit networking trade association for the titanium industry. Current membership includes over 180 organizations.