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UNITED PERFORMANCE METALS
QUALITY SOLUTIONS. TRUSTED PARTNERS.
AN ONI COMPANY

The UPM Market Informer

Monthly Intelligence for Customers of United Performance Metals

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Siemens Unveils 44-MW Mobile Gas Turbine

Siemens unveiled the SGT-A45 TR mobile gas turbine, which has an electrical generating capacity of up to 44 MW. The company said the aeroderivative gas turbine is designed for rapid deployment and can be installed in less than two weeks. It also features strong power density, high fuel efficiency and operational flexibility.

Siemens indicated the new turbine would be especially helpful for customers with urgent power needs or in regions with less developed infrastructures. Since the turbine's design provides more electrical output than other comparable models, fewer turbine units will be required to produce the desired output, the company said. The SGT-A45 TR design is based on previous Siemens products and Rolls-Royce Aero-Engine technology, and the turbine core uses components from the Siemens Industrial Trent 60.

The company has minimized the turbine's size and weight in order to help facilitate transport and allow for air shipments. Both gas and liquid fuels can be used, and the turbine can transition between types while in operation. Operational water injection can lower NOx emissions, as well as boost the power output capacity in warm climates. Siemens estimates the unit can generate full power less than nine minutes from the start time with no need for auxiliary systems to maintain the unit in a standby mode.

Source: Power Engineering 3.21.17

Boeing's New 737 Max 8 Jet Earns FAA Certification

Boeing says the U.S. Federal Aviation Administration (FAA) has certified its new 737 Max 8 airplane for passenger airline service after more than a year of intensive tests.

Chicago-based Boeing said it's now in the final stages of preparing the first 737 Max 8 for delivery to customers "in the coming months."

The FAA certification for the 737 Max 8 follows a comprehensive test program that began more than one year ago with four airplanes, plus ground and laboratory testing, the company said.

FAA granted Boeing what is known as an amended type certificate for the 737 Max 8, verifying the design complies with required U. S. Aviation regulations and is safe and reliable.

Keith Leverkuhn, vice president and general manager of Boeing Commercial Airplanes' 737 Max program, praised the dedication and commitment of the entire MAX team for its hard work throughout the process, from airplane design to flight testing.

"The Renton team looks forward to delivering superior efficiency, reliability and design to our customers as they start to receive their aircraft in the next few months," Leverkuhn said in a news release.

The 737 Max 8 is the first in a new family of the 737, Boeing's workhorse single-aisle jets.

Source: Puget Sound Business Journal

Join Us At These Upcoming Industry Trade Shows:

- **EASTEC May 16-18 in West Springfield, MA—Booth #5583**
- **Titanium Europe May 17-19 in Amsterdam—Kiosk #15**
- **OMTEC June 13-15 in Chicago, IL—Booth #431**
- **Paris Air Show June 19-23 in Le Bourget, France—Booth #3-E150**

Auto/Steel Partnership Appoints John K. Catterall Executive Director

The Auto/Steel Partnership (A/SP), a thirty-year collaboration of auto companies and steelmakers, announced John K. Catterall, an automotive engineering veteran in body structure, chassis and closure applications, has been named executive director of the organization.

The A/SP leverages the intellectual and technical resources of the automotive, steel and related industries and organizations to develop pre-competitive lightweight steel solutions to meet the current and future needs of automakers. This consortium has proven to be a long-time leader in delivering mass efficient, high performing, cost-effective solutions for body and chassis applications as evident by numerous applications on the road today.

Source: STEELWORKS 3.17.17

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Stainless Steel & Cobalt Alloy Surcharge Totals
January 2017—April 2017
High Temp Surcharge Totals
January 2017—June 2017

Grades	Jan	Feb	Mar	Apr	May	June
15-5	0.4842	0.4773	0.4781	0.4853	*	*
15-7	0.5980	0.5863	0.5955	0.6210	*	*
17-4	0.4865	0.4820	0.4833	0.4882	*	*
17-7	0.5795	0.5517	0.5493	0.5587	*	*
18SR	0.3182	0.3344	0.3308	0.3293	*	*
201	0.4891	0.4857	0.4838	0.4881	*	*
301 7.0%	0.5844	0.5581	0.5568	0.5650	*	*
302/304/304L	0.6285	0.5955	0.5933	0.6016	*	*
304-8.5%	0.6469	0.6109	0.6087	0.6178	*	*
305	0.7835	0.7260	0.7244	0.7378	*	*
309	0.8358	0.7776	0.7762	0.7841	*	*
310	1.1240	1.0224	1.0223	1.0369	*	*
316/316L	0.7570	0.7235	0.7335	0.7608	*	*
317L	0.8662	0.8317	0.8478	0.8799	*	*
321	0.6503	0.6113	0.6092	0.6205	*	*
347	0.9180	0.8789	0.8768	0.8880	*	*
409/409 Mod	0.2248	0.2423	0.2384	0.2467	*	*
410/410S	0.2362	0.2535	0.2497	0.2569	*	*
430	0.3034	0.3199	0.3162	0.3164	*	*
434	0.3351	0.3558	0.3567	0.3617	*	*
439	0.3181	0.3343	0.3307	0.3292	*	*
440A	0.3034	0.3199	0.3162	0.3164	*	*
2205	0.7185	0.7195	0.7352	0.7523	*	*
2507	0.5802	0.7713	0.7819	0.7974	*	*
20	1.3031	1.3511	1.5248	1.6467	1.4871	1.6107
263	3.1170	3.2744	3.6196	3.8044	3.9435	5.0868
276	3.2250	3.2347	3.4967	3.5832	3.3826	3.6396
A286	0.8384	0.8700	0.9927	1.0824	0.9675	1.0519
330	1.0591	1.1096	1.2808	1.3848	1.2000	1.3174
400	1.8828	1.9130	2.3223	2.3123	1.9708	2.2196
600	2.1406	2.2060	2.5506	2.6038	2.2021	2.4507
601	1.8746	1.9525	2.2362	2.3541	2.0264	2.2298
617	2.4488	2.5450	2.8741	3.0035	2.9397	3.6710
625	3.8960	3.9472	4.2190	4.3440	4.0843	4.3166
718	3.9805	4.0368	4.2763	4.3855	4.1335	4.3175
X-750	2.6977	2.7641	3.0994	3.1598	2.7694	3.0110
800H/HT	0.9911	1.0465	1.1969	1.3259	1.1673	1.2689
825	1.4547	1.5060	1.6958	1.8221	1.6401	1.7838
HX	2.0415	2.0852	2.3046	2.4337	2.2540	2.4689
188	5.6000	6.2300	8.1500	*	*	*
L-605	6.5100	7.3900	9.8000	*	*	*

*Surcharge currently not available

FAA Aerospace Forecast Report Projects Continued, Sustained Growth in Aviation

From commercial airlines to drone enthusiasts, almost every aspect of air transportation is expected to experience continued growth over the next 20 years. According to the FAA's annual Aerospace Forecast Report Fiscal Years 2017 to 2037, growing U.S. and world economies offer every indication that demand for air travel and aviation will continue to increase, as the agency also similarly forecast in 2016.

For the seventh consecutive year, the U.S. airline industry was profitable, culminating in record profits in 2016. Previous reports, however, have indicated that 2017 might prove to be the peak of such profit bliss, but the FAA forecasts that increasing demand for air travel will help cushion the blow of a number of profit-killing factors, including political unrest, rising oil prices and labor costs, the uncertainty of Brexit's impact, and the recession. Additionally, airlines and manufacturers are adding more seats to planes—a controversial subject—which, when coupled with anticipated higher ticket prices, should help offset such factors.

The largest growth is expected to occur in the use of Unmanned Aircraft Systems. Over the next five years, the FAA forecasts the hobbyist UAS fleet could also experience a huge boom over the same period, jumping from 42,000 to 442,000 drones. The number of drone pilots would subsequently rise by as many as 20 times the 20,000 pilots counted at the end of 2016. the FAA notes, however, that predicting the future of UAS is a more difficult task due to the "quickly evolving market" and the public's ability to adapt to the technology, as well as regulations.

While drone fleets could expand considerably, the general aviation fleet's size will experience a much subtler growth of just 0.1% per year. However, the forecast suggests bad news for fixed-wing piston aircraft, which will shrink by 17,500 airplanes over this span. The decline will be offset by increases in turbine, rotocraft and experimental aircraft.

Source: FLYING 3.23.17

U. S. Steel Ramps Up Spending On Mills

U. S. Steel will ramp up spending this year on improving the efficiency of its plants, president and CEO Mario Longhi told analysts during a call discussing the Pittsburgh steel producer's $440 million loss last year.

Mr. Longhi also told them he is encouraged by President Trump's early efforts to bolster American manufacturing and protect U.S. companies from unfairly traded imports.

U.S. Steel will spend about $200 million more this year on a series of small projects designed to improve the quality and quantity of steel its mills can produce, Mr. Longhi said. The work will be completed over at least three years.

The steelmaker did not disclose how much it spent on similar work last year.

One particular area of focus is rolling mills that process sheet steel into higher value products. The work will address problems at the mills that limited production during the third quarter, the company told analysts.

Source: the Pittsburgh Post-Gazette 3.24.17