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

The UPM Market Informer

JUNE, 2020

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United Performance Metals Adds 8KW Fiber Laser

United Performance Metals (UPM) has installed a new 8KW fiber laser in the company's Cincinnati, Ohio headquarters.

"We have listened to our customers and responded to their needs through our increased capacity and upgraded technology year over year. In addition to the new 8KW fiber laser, we have invested in post laser processing and measuring equipment to more efficiently provide our customers precision laser cut parts," commented James Johnson, Director of Operations.

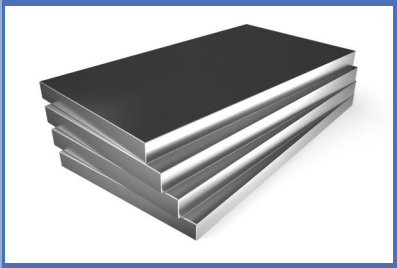
UPM now operates 4 laser cutting machines in their Ohio Laser Center of Excellence; 2 fiber lasers and 2 CO_2 lasers. Furthermore, the company offers 3 automatic deburr units, a parts flattening unit and a complete finishing cell along with the latest technology in nesting software, Virtek reverse engineering, Fara CMM and Visual Measuring Machine (VMM).

For a complete listing of all FIRSTCUT® Processing Services offered by United Performance Metals, click here https://www.upmet.com/capabilities or visit their website at www.upmet.com. Contact sales@upmet.com with your inquiry.

Contact sales@upmet.com with your inquiries, or visit our website for a complete list of our high-strength, high-performance materials and to learn more about our FIRSTCUT+® Processing Services.

www.upmet.com

303 STAINLESS STEEL PLATE



0.1875" - 4.000"

UNS S30300
ASTM A 895

https://www.upmet.com/landing/303.html

This austenitic free-machining stainless steel contains additional sulfur which assists in breaking up turning and reduce drag on the cutting tool.

Contact UPM with your inquiry today.

EMAIL
sales@upmet.com

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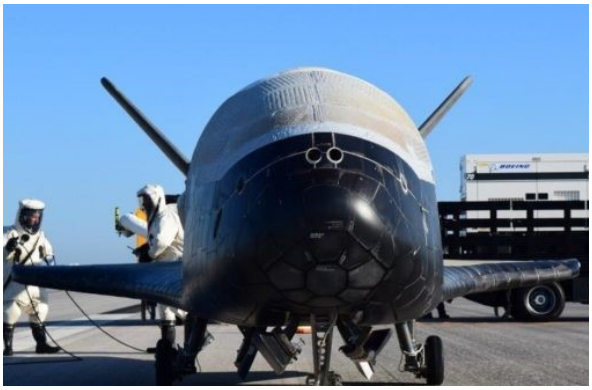
Surcharge Totals March - August 2020

	Mar	Apr	May	June	July	August
15-5	0.4414	0.4279	0.4160	0.4464	*	*
15-7	0.6682	0.6156	0.5733	0.6263	*	*
17-4	0.4314	0.4189	0.4096	0.4386	*	*
17-7	0.5414	0.5170	0.5000	0.5405	*	*
201	0.4215	0.4106	0.4093	0.4385	*	*
301 7.0%	0.5344	0.5108	0.4952	0.5350	*	*
302/304/304L	0.5875	0.5599	0.5416	0.5846	*	*
304-8.5%	0.6104	0.5809	0.5603	0.6052	*	*
305	0.7742	0.7311	0.6958	0.7532	*	*
309	0.7996	0.7563	0.7269	0.7838	*	*
310	1.1346	1.0641	1.0068	1.0884	*	*
316/316L	0.8429	0.7767	0.7222	0.7874	*	*
316LS/316LVM	1.1600	1.0400	1.0000	*	*	*
317L	0.9924	0.9067	0.8391	0.9149	*	*
321	0.6257	0.5943	0.5700	0.6168	*	*
347	0.9355	0.9041	0.8798	0.9266	*	*
409/409 Mod	0.1684	0.1722	0.1774	0.1929	*	*
410/410S	0.1740	0.1779	0.1842	0.1996	*	*
430	0.2066	0.2103	0.2243	0.2389	*	*
434	0.2735	0.2655	0.2707	0.2908	*	*
439	0.2136	0.2172	0.2330	0.2474	*	*
440A	0.2026	0.2103	0.2243	0.2389	*	*
2205	0.7612	0.6980	0.6637	0.7179	*	*
263	5.8912	5.1666	5.2228	5.2107	4.8689	4.6223
276	5.5170	5.1098	5.1574	4.9677	4.4746	4.3545
A286	1.6451	1.4517	1.4352	1.3310	1.2250	1.1963
330	2.1497	1.8705	1.8297	1.6758	1.5422	1.5141
400	3.9451	3.4856	3.3901	3.0570	2.6813	2.6200
455	0.6900	0.6400	0.6300	*	*	*
465	0.8400	0.7600	0.7300	*	*	*
600	4.3080	3.7388	3.6428	3.3252	3.0087	2.9608
601	3.6784	3.2082	3.1306	2.8700	2.6280	2.5877
617	5.6610	5.0440	5.0724	4.9474	4.5508	4.3728
625	6.0346	5.5965	5.5849	5.3620	4.9912	4.9088
718	5.8690	5.4781	5.4381	5.2293	4.9757	4.9239
X-750	4.8474	4.2933	4.2001	3.8914	3.5856	3.5389
825	2.7310	2.4350	2.4121	2.2527	2.0533	2.0068
HX	3.6989	3.3456	3.3542	3.1887	2.8722	2.7909
188	7.6700	7.5300	6.8200	*	*	*
CCM	10.000	9.3000	7.9400	*	*	*
L-605	8.9500	8.8000	7.9300	*	*	*

*Surcharge currently not available

Boeing-Built X-37B Launches in Second Mission for U.S. Space Force



The Boeing-built X-37B autonomous spaceplane launched on top of a uniquely configured United Launch Alliance Atlas V rocket. Boeing is the prime contractor for the X-37B spaceplane and facilitates the integration of all experiments into the vehicle ensuring they receive the correct power, thermal and data services required. Boeing also works to identify future reusable platform experiment opportunities on each mission.

The X-37B's sixth mission is the first to use a service module with additional payload capability to support a variety of experiments for multiple government partners. The mission will deploy Falcon SAT-8, a small satellite developed by the U.S. Air Force Academy and sponsored by the Air Force Research Laboratory, to conduct experiments on orbit. Further, two NASA experiments will study the impact of radiation and other space effects on certain materials and seeds used to grow food. Another experiment by the Naval Research Laboratory will transform solar power into radio frequency microwave energy which could then be transmitted to the ground. In addition, the mission will test reusable space vehicle technologies.

The X-37B first launched in April 2010. Originally designed for missions of 270 days duration, the X-37B has set endurance records during each of its five previous flights. Most recently, X-37B spent 780 days in orbit before returning to Earth in October 2019.

"The X-37B has shifted the paradigm and redefined efficiency in space development," said Jim Chilton, Boeing Space and Launch senior vice president. "The rapid technology advancements enabled by the program will benefit the entire space community and influence the next generation of spacecraft design."

The X-37B program is a partnership between the Department of the Air Force Rapid Capabilities Office and the United States Space Force. Boeing program management, engineering, test and mission support functions for the Orbital Test Vehicle (OTV) program are conducted at Boeing sites in Southern California and Florida. *Source: Boeing*

MedTech Sees Key Role for ASCs as Patients Seek Elective Care Return

The flight of joint replacements and other lucrative procedures from acute care hospitals to ambulatory surgery centers was happening before the COVID-19 pandemic, but the crisis may prove to accelerate the trend.

"That shift was underway, but not very quickly: things never are in healthcare," said Tim van Biesen, head of Bain & Company's global healthcare practice.

Some 5,700 ASCs in the U.S. carried out 23 million procedures in 2018, according to data cited by Bain last fall. The year prior, ASCs reportedly carried out more than half of all outpatient surgeries, versus having 32% share 15 years ago. The specialized, lower-cost centers have been an apple of private equity's eye, and have allowed more business to be taken away from acute care hospitals in recent years as CMS has moved additional procedures off of its inpatient-only list.

In the context of COVID-19, with many ASCs able to work through elective procedures sooner or at greater capacity than their hospital counterparts, the centers are all the more critical to the financial recovery of many MedTech's and health systems alike. That shift isn't just jarring to some hospitals' revenue mix. Broadly speaking, the different cost structure at ASCs means they can offer surgical procedures at 35% to 50% less than hospital rates, according to Bain. This reality may require MedTech companies to adjust their traditional commercial model. *Continued on page 4*

New UK-Based Space Team Launches To Boost Sector And Economy

Four UK-based companies announce today that they will team up to combine their complementary skills and expertise to enhance further the country's space industry capabilities to deliver prosperity and security.

Athena is the UK's new national team in space, formed by Serco, Inmarsat, CGI UK and Lockheed Martin UK. The four companies are world leaders in providing technology and services across defense, space, communications and information technology to governments, businesses and other organizations.

Athena has been formed to seize development opportunities that new space technologies will offer, driving economic growth for the UK and diversification across the British space sector as Athena succeeds. The combined capabilities and technologies available to Athena will enhance further the country's ability to deliver the UK's 'Prosperity and Security in Space' strategy, which aims to increase the value of space to wider industrial activities to £500 billion, generate an extra £5 billion in UK exports and attract £3 billion of additional inward investment.

Kevin Craven Serco Chief Executive, UK & Europe, said "I am delighted to introduce Athena as an exciting new team that will deliver enhanced space-based technologies and services from the UK. Athena will boost British capabilities, as well as the economy, via growth in this fast-moving, developing sector. The launch of Athena also ensures diversity and choice in the UK space sector for future sustainable development."

Athena will work on a number of opportunities that leverage space-based technologies, their ground-based systems and end-to-end services as they arise, both in the UK and internationally in the export market. The UK has significant potential for strong growth in the space sector, as it develops in importance worldwide to facilitate new technologies such as driverless transport, enhanced navigation, secure communications for defense and for industry via the Internet of Things (IoT) and, more broadly, as part of 5G and other hybrid networks.

While continuing to operate as separate companies, Athena will see Serco, Inmarsat, CGI UK and Lockheed Martin UK – already major employers in the UK – develop shared capabilities to meet future demand for space-enabled solutions for business and government customers. This will also aim to boost the UK economy, in partnership with the UK Government's growing focus on the space sector and its priorities around 'levelling up' economic benefits across the country. Unleashing untapped potential in the UK space sector through future export business will deliver further growth and job creation at the four companies' sites across the country as well as enhanced skills in the UK workforce.
Source: Spacewatch Global

Continued from page 3
That same report pegged volume of procedures at ASCs to grow by 6% to 7% a year through 2021, with orthopedic, spine and cardio procedures estimated to accelerate most rapidly through the mid-2020s.

As U.S. states go through phased reopening, many outpatient care settings like ASCs are primed to begin chipping away at the backlogs of elective procedures sooner than hospitals, which in some areas are still prioritizing COVID-19 care and safety measures. A Jefferies survey of 40 orthopedic surgeons earlier this month found 12% of procedures were currently being done in ASCs, a figure expected to reach 20% in six months.

For device makers with significant knee businesses like Stryker and Zimmer Biomet, it was a big deal when CMS removed total knee arthroplasty from the Medicare inpatient-only list in 2018. Bain now expects the share of knee replacements in ASCs to rise from roughly 10% to close to 30% by the mid-2020s.

Stryker, which reported a 65% drop in orthopedic and spine sales during the month of April, and classified half of its business as vulnerable to deferrals, is among the parties eager for elective procedures to resume.
"The trend to ASCs will only accelerate," Stryker CEO Kevin Lobo said on its first quarter earnings call, with the caveat there's still "a long way to go," but, "that pace will increase." *Source: Maria Rachal, MedTech Dive*