

Sandvik and BEAMIT return to Formnext 2021 – sharing their recent advancements to industrialize additive manufacturing

Sandvik and the BEAMIT Group – now also including 3T Additive Manufacturing – return to Frankfurt for the world-leading additive manufacturing event of Formnext 2021. On site in Germany, the companies will showcase the latest news from their joint offering along the additive value chain, made even stronger by the latest acquisitions, product releases, and further increases in metal powder capacity.

In 2019 [Sandvik acquired a significant stake in the BEAMIT Group](#), who have since become the world's largest, independent AM service provider – with the latest addition being the acquisition of 3T Additive Manufacturing earlier this year. At Formnext 2021, [Sandvik and BEAMIT will yet again co-exhibit](#) to present the widest range of premium metal powders for all additive manufacturing processes, as well as several industrial additive customer cases that showcase the Sandvik-BEAMIT companies' joint offering and leading expertise along the additive value chain.

Kristian Egeberg, President of Sandvik Additive Manufacturing, says: "It's as natural as it is exciting for us to once again join forces with BEAMIT at Formnext 2021. After this past year of restrictions across the globe, we look forward to meeting our customers and once again offer them an opportunity to explore the combined power of Sandvik and BEAMIT– which I'm proud to say hasn't slowed down, but rather found even more fuel throughout these challenging times. We are ramped up and ready to keep pushing the industrialization of additive manufacturing – and our offering has never been stronger. We're going to Frankfurt to share with current and new customers how we can support them as an advanced metal powder supplier and/or in developing and implementing their AM programs, and take the industrialization of AM to the next level, together".

Additively manufactured super-duplex stainless steel

Sandvik and BEAMIT will present a unique capability to produce [additively manufactured components in super-duplex stainless steel](#), offering optimized performance for the most demanding, marine environments – while enabling minimal downtime and no capital tied up in parts. Outperforming several traditionally manufactured counterparts, Sandvik's super duplex components are 3D printed in the company's flagship material [Osprey® 2507](#) – a strong, corrosion-resistant super duplex metal powder, tailored for AM and manufactured in-house to the highest international standards.

Mikael Schuisky, VP and Business Unit Manager for AM Services at Sandvik, says: “By leveraging nearly 160 years of materials expertise and industry leading know-how along the additive value chain, we are proud to say Sandvik is the first to offer 3D printed super duplex components to the market. While many have tried and failed, we are very pleased to have seen components printed to a standard that doesn’t just meet, but even exceeds that of several conventionally manufactured counterparts.”

An impeller, reinvented and 3D printed in Osprey® 2507, has been developed as a result of a collaboration between Sandvik, energy giant Equinor, and Norwegian Eureka Pumps. The offshore essential will be one of the products on display at Formnext 2021.

3D printed cemented carbides by Sandvik

At Formnext, Sandvik is also introducing yet another addition to their AM service offering: [3D printed cemented carbides](#). This is an evidence of Sandvik’s longstanding expertise in hard materials and world-leading post processing capabilities. Additively manufactured cemented carbides allow for durable and wear-resistant parts to be manufactured in virtually any geometry – a gamechanger to industries such as tool making and metal cutting. With Sandvik’s unique and patented manufacturing process, customers can look forward to several business-critical benefits such as increased production speed – and longer intervals in between part replacement.

Significantly increased manufacturing capacity of Osprey® metal powders

Sandvik’s ever evolving and market-leading range of [Osprey® metal powders](#) continue to grow, and was recently extended to include premium titanium powder as well as nickel-based superalloys – manufactured in facilities with quality management systems certified for deliveries to the aerospace and medical segments. To keep up with demands, Sandvik has made considerable efforts in gearing up their manufacturing capacity even further during 2021, also for other high-alloy material groups. While much attention in the AM arena focuses on revolutionary designs, innovation on a material level is equally important.

Annika Roos, Business Unit Manager of Sandvik’s metal powder business says: “Materials technology is very much integrated with Sandvik’s DNA. From our own AM service business, we have first-hand experience from printing in a wide range of materials for additive manufacturing – from tool steels, duplex steels, super alloys like titanium and high-temperature materials, to hard and super hard materials – and understand the importance of using premium raw materials, tailor-made to the additive processes, in order to obtain an

optimal end result. To meet the increased demand, we have significantly increased our ability to produce even larger quantities of metal powders for AM, by adding new atomization towers to our site in Neath, UK.”

BEAMIT acquired 3T Additive Manufacturing – creating the world’s largest independent AM service provider

[BEAMIT](#), including the Group’s latest addition of [3T Additive Manufacturing](#) – bringing with them over 20 years of industrial expertise in metal AM, as well as some of the highest quality certifications for deliveries to aerospace and medical – will also display selected customer cases at Formnext 2021.

Andrea Scanavini, General Manager of the BEAMIT Group says: “Our strategic and industrial partnership with our shareholder Sandvik gives us a competitive advantage when it comes to leading materials expertise, materials development capabilities, and supply of the widest range of alloys. Together, we have leading capabilities throughout the AM value chain and know what it takes to industrialize additive manufacturing. We are really looking forward to co-exhibiting at Formnext again – and make the most out of this opportunity to present the full power of the Sandvik-BEAMIT offering to customers in real life”.

The Sandvik-BEAMIT booth at Formnext will be filled with industrial customer cases covering a wide range of materials and different additive processes – as well as the leading metal powder and AM experts of Sandvik, BEAMIT, and 3T Additive Manufacturing – ready to discuss customers’ specific needs and challenges.

For further information about Sandvik’s presence at Formnext 2021, please visit our [Formnext website](#).

ABOUT SANDVIK ADDITIVE MANUFACTURING

Sandvik Additive Manufacturing has a world-leading position in metal powder with the widest range of AM-alloys on the market. The company has also made sizeable investments into a wide range of AM printing technologies since 2013. Adding 159 years of leading expertise in materials technology, 75 years in post processing methods like metal cutting, sintering and heat treatment, Sandvik has well established and leading competence across the entire AM-value chain. In 2019, Sandvik acquired a significant stake in BEAMIT, a leading European-based AM service provider, and after this, the BEAMIT Group has acquired 100% of ZARE and 3T Additive Manufacturing, bringing together three leading AM service bureaus in Europe – to create one of the largest independent AM service providers in the world, serving the most demanding industries.

Sandvik AB is a high-tech and global engineering group with approximately 37,000 employees and sales of approximately 86 billion SEK in more than 160 countries (2020). The company was founded in Sweden in 1862 and is listed on the Stockholm stock exchange since 1901.

ABOUT BEAMIT GROUP

BEAMIT Group is one of the most advanced Additive Manufacturing (AM) service providers in the world and serves the most demanding industries, like aerospace, automotive, medical, energy, racing and industrial engineering. It has recently become the first One-Stop Shop in metal AM, offering globally a fully integrated value chain. In 2019, Sandvik acquired a significant stake in BEAMIT. With 24 years' experience in AM with metal powders BEAMIT is an approved supplier for serial production by many leading OEMs, and holds a significant number of quality certifications, including AS/EN 9100:2018 for aerospace, IATF automotive, NADCAP accreditation for heat treatment processes and laboratories, and NADCAP accreditation for welding – additive manufacturing commodity.

BEAMIT Group consists of the original BEAMIT organization, ZARE (acquired in 2020) and 3T Additive Manufacturing (acquired in 2021) as well as a participation in PRES-X, specialized in high-end post processing for 3D printing. BEAMIT Group HQ are in Fornovo di Taro (Parma, Italy). Today the company counts around 130 employees and close to 60 dedicated AM systems distributed across 7 facilities in Italy and the UK.

ABOUT 3T ADDITIVE MANUFACTURING

3T Additive Manufacturing has been a market leader in AM for more than 20 years. The company accelerates the production of additive manufacturing across multiple industrial applications, using the most advanced AM systems and a wide range of materials. 3T Additive Manufacturing's offering includes design for additive manufacturing, rapid prototyping, development, and serial production of components. Its rigorous New Product Implementation process ensures that application and part development is conducted through a stage gate process to ensure repeatability, reproducibility, and the highest quality standards. The company has some of the highest accreditations in the AM industry, including ISO9001, ISO13485 and AS9100 certifications, allowing them to supply components to many of the world's largest OEM's, utilizing EOS metal additive technology, including the M400-4 large frame machine.

FOR FURTHER INFORMATION

<https://www.additive.sandvik>

<https://www.metalpowder.sandvik>

<https://www.beam-it.eu>

<https://www.3t-am.com>

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