



Press Release

Sandviken, Sweden, November 11, 2021

Sandvik increases manufacturing capacity in metal powders for Additive Manufacturing

Sandvik continues to invest in metal powder capacity for additive manufacturing (AM) by installing two additional atomization towers at the production site in Neath, U.K. This expansion follows a recent investment in a new plant for the manufacturing of titanium and nickel-based alloys for AM, in Sandviken, Sweden.

With 45 years' of gas atomizing experience and nearly 160 years of leading materials expertise, Sandvik offers the widest range of metal powders for additive manufacturing on the market – including titanium, stainless steels, duplex- and super-duplex steels, nickel-based super alloys, aluminum, copper, and more. The alloys are all atomized in-house and carefully tailored to meet the needs of customers throughout the most demanding industries.

Annika Roos, Business Unit Manager of Sandvik's metal powder business, says:

“Sandvik offers extensive capabilities in terms of providing high-quality and consistent metal powders, to customers engaged in a range of additive manufacturing processes such as laser powder bed fusion (L-PBF), electron beam melting (EBM), and binder jetting. By installing these new atomization towers – one of which is already fully operational and quality assured, while the other is under construction – we bring our total tower count to twelve, and thereby significantly increase our ability to produce even larger quantities of premium metal powders”.

While much attention in the AM arena focuses on revolutionary designs, innovation on a material level is equally important. With its wide range of Osprey® metal powders, Sandvik has the in-house capability to produce the market's broadest portfolio of alloys – coupled with the metallurgical expertise to customize the best suited material for each application and AM process technology.

“Materials technology is very much integrated with Sandvik's DNA,” Annika Roos continues. “From our own AM service business, we have first-hand experience of printing in a wide range of materials for additive manufacturing – from tool steels and duplex steels to titanium and super alloys for high-temperature applications – and understand the importance of using premium raw materials in order to obtain an optimal end result. Gearing up our manufacturing capacity means we are now even better positioned to meet the increased demand in terms of metal powders for AM.”

Through Sandvik's “Plan it, Print it, Perfect it” approach to additive manufacturing – stating that printing is just one of the seven steps you have to master in order to succeed with the

industrialization of AM – the company clearly conveys that obtaining the most optimal material, tailor-made for your AM process and final component is the first, and perhaps even most important step.

Dr. Paul Davies, Technical Solutions Manager at Sandvik Additive Manufacturing, says: “Additive manufacturing is in general challenging enough without questionable raw materials. Predictable and consistent powder flow is key when it comes to part quality and final properties – and since we have such a wide range of printing technologies for metals in-house, we can make sure all metal powders are tailored to the customers’ specific manufacturing process as well.”

The quality management system of the powder manufacturing facility in Neath, UK is certified in accordance with AS9100D, ISO 14001, ISO 45001, ISO 50001, and ISO 9001. In addition, Sandvik’s production site for titanium and nickel-based alloys located in Sandviken, Sweden, is also ISO 13485 certified for deliveries to the medical segment.

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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 158 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 in 2020 and 2021, the BEAMIT Group acquired 100% of ZARE in Italy and 3T Additive Manufacturing in the UK, 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.

FOR FURTHER INFORMATION

<https://www.metalpowder.sandvik>

<https://www.additive.sandvik>

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