

3MF technological progress with AM materials

- **3MF expands its 3D printing capability in new high performance metal powders and delivers a customer print job with a new material customised for additive manufacturing – MAT21.**
- **3MF is working with Hitachi Metals Singapore to widen its range of 3D metal powders.**
- **Ability to print in new materials and with an increased selection of powders expands 3MF's competitive advantage.**

21 December 2021: 3D Metalforge (ASX: 3MF) (**3D Metalforge or the Company**), a global revenue generating Additive Manufacturing company, is pleased to announce that it is working with Hitachi Metals Singapore Pte. Ltd (Hitachi Metals Singapore), a member of the Hitachi Group, to expand its range of advanced additive metal powders.

Based on this, 3D Metalforge has successfully printed an impeller for a customer using a new material customised to additive manufacturing – MAT21. MAT21 is an alloy which has superior properties than stainless steel, with high corrosion resistance under various conditions. MAT21 is a Hastelloy grade alloy which has an outstanding resistance to pitting and crevice corrosion as compared to C-22 and C-276 and is used to replace any of these.

Companies operating in the oil & gas sector have previously struggled to find a solution for their additively manufactured Hastelloy requirements. The availability of the MAT21 powder and printability of this powder, allowed the customer to compare and qualify the component. Through 3D Metalforge's technical know-how, the customer now has a readily available solution for Hastelloy parts and may also consider upgrading some parts for improved corrosion resistance. The print job is consistent with 3D Metalforge's focus on making technological advancements and becoming a leader in Additive Manufacturing technologies.



3MF Impeller printing in Hastelloy

3D Metalforge will continue working with Hitachi Metals Singapore to enhance its value proposition for oil and gas parts printing, which require high performance quality such as high corrosion resistance and high strength.

3D printing metal powders are significantly important in providing AM solutions. Most metal powders used in AM today are made for traditional manufacturing processes, and AM is moving beyond just using traditional materials and innovating with materials specifically suited for AM. Metal powders customised for AM processes are an emerging technology which can improve the performance of printed parts.

Combining 3D Metalforge's expertise in providing a full range of AM services, the ability to work with new high performance metal powders is a significant competitive advantage in servicing clients.

Matthew Waterhouse, 3D Metalforge Managing Director, commented: "Metal powders are an integral component to 3D printing and to the quality of 3D printed parts. With our proprietary processes and capabilities, we continue to enable the production of high-demand industrial parts faster, better and more cost-effectively than traditional manufacturing. We look forward to helping accelerate the adoption of AM and create value through our materials and processes. With our additive manufacturing services, we can improve companies' processes, products and services, while increasing our competitive advantage."

Hitachi Metals Singapore commented in a recent press release: "3D Metalforge, one of the most established additive manufacturers with manufacturing sites in Houston and Singapore and sales offices in Australia, is using Hitachi Metals' AM powder and metallurgical knowhow to enhance its value proposition for oil and gas parts printing, which require high performance quality such as high corrosion resistance and high strength. Hitachi Metals is looking forward to working with more such AM ecosystem players to bring AM adoptions to greater heights."

- ENDS -

This announcement has been approved for release by the Managing Director of 3D Metalforge Limited.

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ABOUT HITACHI METALS SINGAPORE

Hitachi Metals Singapore (HMS) has been providing "Materials Magic" solutions not only to Singapore but also to other ASEAN countries since establishment in 1979. HMS will strive further to develop and provide better products and services to customers. And the first step is to continue providing superior services in order to meet or even exceed customers' expectations, as this will also increase Hitachi's Brand awareness.

ABOUT 3D METALFORGE

3D Metalforge (ASX: 3MF), founded in 2015, is a leading Additive Manufacturing (AM) company that supports a growing multinational industry-leading client base with their advanced proprietary 3D additive manufacturing systems. The Company offers a full range of in-house AM printing services from design and engineering, material advisory, diagnostics and testing, to printing and post-production certification to the latest industry and API standards. Its approach to industrial production, its proprietary processes and eco-friendly technology produce high-demand parts faster, better and more cost-effectively with less environmental impact and greater sustainability than conventional manufacturing.

FORWARD LOOKING STATEMENT

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices or potential growth of 3D Metalforge Limited, are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.