

View this email in your browser



Supported by

SINGAPORE HIGHLIGHTS



photo credits: HP, Zetron's Functional parts printed using HP's metal binder jet

**3 Memoranda of Understanding Signed at NAMIC's Global AM Summit to Drive The Advancement of Additive Manufacturing in Singapore**

1. [NAMIC, HP Inc and Dou Yee Technologies](#) aim to establish a robust development-to-production workflow for metal binder jetting applications. [Read more.](#)

2. [NAMIC, A\\*STAR IMRE, LCFC \(Hefei\) Electronics and Hyperforge Holdings](#) will jointly explore the deployment of advanced technologies spanning materials, design and manufacturing, to support LCFC's innovation and digital transformation. [Read more.](#)

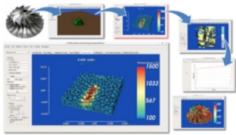


Left: 3D printed replacement part  
Right: original part damaged in field operations

3. [NAMIC, Singapore Army and ST Engineering](#) to collaborate advancing operational agility and strengthening supply chain resilience through the adoption of additive manufacturing and the development of digital inventories. [Read more.](#)

**ActivArmor's Partnership with Additive3D Asia Brings 3D Printed Orthopaedic Solutions to Singapore**

[ActivArmor](#), a US-based company customising 3D printed waterproof casts and splints, has partnered with [Additive3D Asia](#), a local company, to distribute its FDA-registered, waterproof orthopaedic devices in Singapore to broaden their reach in the Asia-Pacific region. [Read more.](#)



Credit: AMDT software by A\*STAR IHPC

**NAMIC Backs Additive Manufacturing Digital Twin Deployment by A\*STAR IHPC with SynaCore**

NAMIC announced an initiative with A\*STAR Institute of High Performance Computing (A\*STAR IHPC) and SynaCore, a Singapore based startup, to commercialise AI-enabled, physics-based models through A\*STAR IHPC's proprietary Additive Manufacturing Digital Twin (AM-DT) software. The result will unlock a competitive advantage for companies seeking to scale up AM adoption. [Read more.](#)

**Study by Nanyang Polytechnic and ST Engineering Advances 3D Printing of Corrosion-resistant Components for Maritime and Oil & Gas Applications**

[Nanyang Polytechnic](#) and [ST Engineering](#) has completed a research study focused on optimising 3D printing parameters of Stainless Steel 254 (SS254) in Singapore. This study has yielded critical insights into laser powder bed fusion process parameters and provide a valuable foundation for industrial adoption of additive manufacturing in parts of mission-critical applications such as subsea structures, ship components, and oilfield equipment. [Read more.](#)

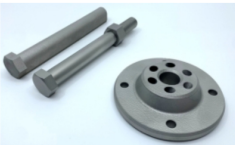


photo credits: SS254 3D-printed parts by Nanyang Polytechnic & ST Engineering



**Celebrating a Decade of AM Innovation**

NAMIC launched our 10th year commemorative publication to capture the inspiring journey of AM adoption in Singapore. Stories of grit, resilience, and entrepreneurship from across our vibrant AM community is also feature in this special edition. [Read more.](#)

**Stories You Can Feel — Celebrating 10 Years of Innovation with Purpose**



As part of NAMIC's 10 year anniversary, a CSR initiative that reflects our belief in innovation with purpose — Singapore's first 3D-printed braille book for young children with visual impairments, was developed in collaboration with [Tusitala](#), a local digital storytelling studio, and [iC2 PrepHouse](#), a charity supporting children with visual impairments. This braille book is built upon the know-how of NAMIC Hub@SIT, and the prints are supported by NAMIC hubs. [Watch to find out more.](#)



## INDUSTRY HIGHLIGHTS



### **How Should Singapore Navigate the Future of Manufacturing with Additive Technology**

The Future of Manufacturing with Additive Technology, a NAMIC report, reveals how the industry is shifting from prototypes to real-world production, with companies leveraging AM for end-use parts, improved design flexibility, and supply chain resilience. Yet, challenges remain for many adopters to realise significant revenue gains due to high costs and uncertain ROI. What strategies should Singapore take to lead the next industrial growth through additive manufacturing? [Read more.](#)

### **Apple confirms laser-based Additive Manufacturing of titanium Apple Watch cases**

Apple announced that its Apple Watch Ultra 3 and titanium Apple Watch Series 11 cases are 3D-printed with 100 percent recycled aerospace-grade titanium powder. 3D printing is a technology with potential for material efficiency, which is critical for Apple 2030, the company's goal to be carbon neutral across its entire footprint by the end of 2030. [Read more.](#)



### **LEGO's First Mass-Produced 3D Printed Element is Now in Stores in a New Holiday Set**

LEGO released its first mass-produced 3D printed element in their Christmas Set, the Holiday Express Train. The miniature locomotive is the first 3D-printed part produced at scale and sold at retail in a LEGO set. [Read more.](#)



### **TAG Heuer's Split-Seconds Goes High Tech with Laser Sintering**

TAG Heuer's engineers took inspiration from its Formula 1 partnership to incorporate additive manufacturing techniques for its limited edition of Monaco Split-Seconds Chronograph Air 1. Its hollowed-out 18k gold case was manufactured with laser additive manufacturing. [Read more.](#)



### **Power Generation at the Point of Need, Enabled by Additive Manufacturing**

Hyllion's Kamo Power Module, is a four-shaft linear generator system produced with laser powder bed fusion. 3D printing technology enables the highly complex and effective heat exchangers in Kamo to generate electricity up to 15% more efficient than conventional grid. [Read more.](#)

### **Sakuu Demonstrates 4,000-Cycle Performance in Dry-Printed Lithium-Ion Battery Cells**

Sakuu, a Silicon Valley-based battery printing equipment and technologies developer, demonstrated a nickel cobalt manganese cell produced using Kavian's dry electrode manufacturing process, retained 83% of its capacity after 4,000 charge-discharge cycles. This achievement places the cell among the top-performing commercial lithium-ion batteries used in electric vehicles and large-scale energy storage. [Read more.](#)



### **3D Printed Interlocking Earthen Bricks Create Microclimates to Support Tree Growth**

Treesoil, a project designed to create microclimates that support the early growth of young trees and plants, is made with robotic 3D printed interlocking bricks, to protect tree saplings from harsh conditions. The biodegradable material system integrates architecture, plant biology, and material science to show how design can be used to actively help with ecological regeneration efforts. [Read more.](#)

#### World's First 3D Bioprinted Corneal Implant Successfully Implanted in Phase 1 Patient

Rambam Health Care Campus in Haifa, Israel, performed the world's first 3D bioprinted corneal implant into a human patient, as part of [Precise Bio's](#) Phase 1 clinical trial. The implant was entirely made from living human cells and engineered into a transparent, layered structure to mimic a natural cornea. [Read more.](#)



## UPCOMING EVENTS



Additive Manufacturing Strategies is an in-person conference that brings together the industry's leaders in a contained networking environment. AMS is the place for startups to access capital, for financial institutions and investors to sharpen their radars, and for the AM industry to focus on the business of AM. Register [here](#).

The AM Forum is Europe's leading conference dedicated to expediting the adoption of additive manufacturing (AM) by exploring strategies, sharing success stories and fostering collaborations. The 8th conference will focus on advanced materials, design and software, industrial application and automation, and navigating the next frontier. Register [here](#).



TCT Asia focuses on real-world applications, targeted intelligence and information, aligned with the complete range of technology on the show floor presented by over 400 exhibitors. An innovative event experience with networking opportunities, practical takeaways and highly focused content to help participants evaluate, adopt and optimise their additive requirements. Register [here](#).

Follow us for more AM insights:



▶ Enabling The Digital Future

<https://namic.sg>

Copyright © 2025 NAMIC Singapore, All rights reserved.

Our mailing address is:  
4 Fusionopolis Way  
Kinesis, #09-11  
Singapore 138635

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).

