Advanced Manufacturing

Singapore 2025

Global Incubator Programme

UKRI Innovate UK

Contents

Innovate UK

Innovate UK, part of UK Research and Innovation, is the UK's innovation agency. It works to create a better future by inspiring, involving and investing in businesses developing life-changing innovations. Its mission is to help companies to grow through their development and commercialisation of new products, processes and services, supported by an outstanding innovation ecosystem that is agile, inclusive and easy to navigate.

www.ukri.org/councils/innovate-uk

Innovate UK Business Growth

Innovate UK Business Growth is Innovate UK's national business growth and scaling service. It is an integral part of the innovation agency's products and services portfolio.

The service is available to all established small to medium sized innovation-focused growth companies, including Innovate UK grant winners.

Innovate UK Business Growth accelerates its ambitious clients on their growth journeys with one-to-one support from over 400 innovation and growth specialists and scaleup directors embedded in every UK region and nation. Their tailored, expert advice helps thousands of businesses sharpen their commercial strategies, realise the maximum value from their IP, raise game changing investment and take their businesses onto the global stage every year.

www.iukbg.ukri.org

Global Incubator Programme

Supporting businesses and innovators to collaborate and grow internationally is a central theme of the UK Innovation Strategy - setting out a goal for the UK to be one of the most innovative countries in the world by 2030. The Global Incubator Programme delivered by Innovate UK works with expert partners in-market to enable UK companies to establish international innovation collaborations and to overcome barriers to entering global markets.

We are pleased to work in partnership with Atum Ventures to deliver this Advanced Manufacturing incubator in Singapore. Participating companies are seeking partners for joint R&D projects, accessing new markets through technology partnering or attracting foreign investment to support the commercialisation of UK technology. These global programmes support high growth, innovative businesses, enabling them to explore and exploit opportunities in specific countries and technology areas, providing market knowledge and cultural insight that they may otherwise not be able to generate for themselves.

Atum Ventures

At Atum Ventures, we exist to support courageous founders who turn differentiating tech into world-changing companies that solve critical challenges in Energy, Medtech and Advanced Manufacturing. We bring capital, operational muscle and partners from academia, industry, VC, and government who co-invest in every build.

We support local founders by building ventures from scratch through our venture building platform. We support global founders by helping them expand into Singapore and South-East Asia through our market expansion programmes Atum Ventures is supported by Enterprise Singapore, HighTechXL, XNode, A*StartCentral and National Health Innovation Centre (NHIC).

Visit **atumventures.com** for more information.

ATUM
COLLECTIVE + VENTURES + HOLDINGS + INVESTMENTS

UK Manufacturing

Through this industry programme we support realising the Innovate UK materials and manufacturing vision 2050. The vision sets out that it is strategically imperative that the sectors are:

- Net zero and resource-efficient
- Resilient and responsive
- Technologically advanced and digital

The five main focus areas for the UK are:

Materials for the future economy
Bio-based materials, functional materials, material applications for cutting-edge products that reduce emissions, energy consumption and costs.

Resilient supply chains
Complete supply chain visibility, sustainable feedstocks, bio-based chemical replacements, and co-location of waste and emission streams.

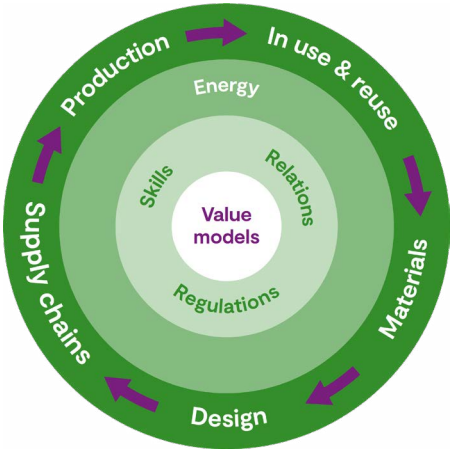
Longer in use & reuse
Minimal material waste, practicing complete traceability, and new remanufacturing services.

Smart design
Effective design methods, design for resource efficiency, design for maximum through-life value, and engineering biology.

World-class production
Flexible production capacity, minimal material use, high-quality products, high productivity, biomanufacture at scale, and full adaptivity.

Advancements in enabling areas such as clean energy, pro-active regulations, skills foresighting, community networking, and business model development are critical as well.

The diagram on the right shows a system where the interactions and symbiosis between the areas are as important as developments within the areas themselves.



For more information, visit:
www.ukri.org/publications/innovate-uk-materials-and-manufacturing-vision-2050/

Singapore and UK Co-operation

The UK is seeking international research and development collaboration partners to exploit and continue the development of these Advanced Manufacturing technologies. Building on the strong mutual interest in co-innovation between Singapore and UK companies, in 2021 Enterprise Singapore (ESG) and Innovate UK, the UK's innovation agency, signed a Memorandum of Understanding (MOU) to strengthen cooperation in "co-innovation" and joint research and development. Recognising the success of our collaboration, the MOU was resigned in 2024, extending the agreement into 2027. This is to enhance enterprise competitiveness and facilitate "go-to market" partnerships in emerging technologies.

Under the MOU, ESG and Innovate UK have delivered several rounds of the Singapore-UK Bilateral Co-Innovation Programme (CIP) to develop and fund eligible innovation projects between Singapore and UK enterprises in areas including Advanced Manufacturing Technology.

Under the bilateral funding call between the UK and Singapore: Innovate UK have welcomed applications for collaborative R&D funding for the purpose of developing innovative proposals with Singaporean businesses. UK registered organisations apply to and are funded by Innovate UK. Singapore partners apply to and are funded by Enterprise Singapore. Applications from the advanced manufacturing and materials sector have been successful and projects from previous rounds are currently active. The aim of these competitions are to fund business led collaborative research and development (CR&D) projects focused on industrial research. Whilst no competition is currently open for applications, it is hoped that further rounds will take place

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3T Additive Manufacturing

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Profile

3T is a UK-based, EN9100:2018 series production supplier of finished metal components and sub-assemblies, which we manufacture in line with our customer requirements.

We've leveraged metal additive manufacturing, digital twin production processes and automation to create a highly efficient compressed supply chain in one factory that unlocks low carbon manufacturing.

LESS IS MORE. Design, develop, qualify and produce with just one supplier.

Major aerospace, defence, industrial, and energy OEMs consistently seek our capabilities to:
1. Enhance product performance through additive manufacturing redesign
2. Accelerate development and part replacement timeframes, particularly for castings
3. Establish sustainable, cost-effective supply chains with reduced carbon footprint

Rolls-Royce | Boeing | ASML | Airbus | Mercedes AMG | Honeywell | Thales | Leonardo

Objectives

NET ZERO DIGITAL PART CERTIFICATES on every part we deliver by 2032.

FOOTPRINT IN APAC – we plan to be operational in Malaysia by 2028, creating an advanced manufacturing capability that will become an innovation lighthouse to help regional manufacturers adopt and upgrade their capability through our turnkey smart factory consultancy.

HYBRID & REPAIR PRINTING TECHNOLOGY– To launch our 'world first' MRO capability in Singapore, which integrates novel technology into our existing printers to enable very accurate, low cost, additive manufacturing repair.

WE SEEK:
1. PRODUCT OEMs or MROs interested in our competitive capabilities
2. TECHNOLOGY PROVIDERS to develop digital, automation, or energy reduction solutions within our smart-factory ecosystem.
3. INVESTOR networks supporting our regional expansion

3T additive manufacturing

3T additive manufacturing

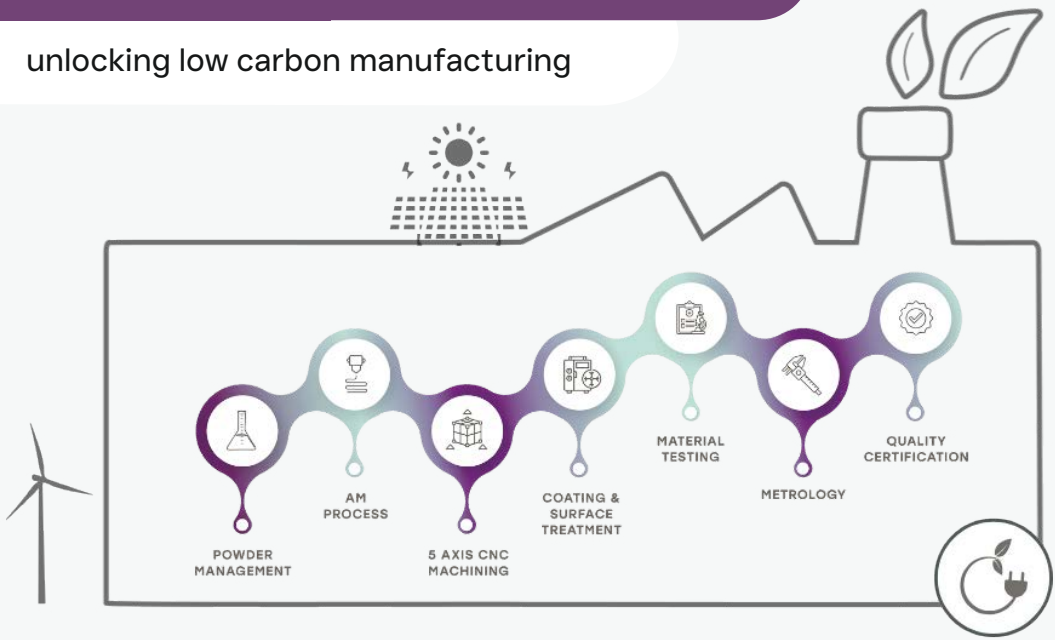
INCREASE YOUR COMPETITIVE ADVANTAGE, USING OUR UNIQUE CAPABILITY

- FASTER PRODUCT DEVELOPMENT OR REPLACEMENT
- INCREASED PRODUCT PERFORMANCE
- FUTURE PROOF YOUR SCOPE 3 SUPPLY CHAIN

LESS IS MORE

THE WHOLE SUPPLY CHAIN IN ONE FACTORY

unlocking low carbon manufacturing



DESIGN, DEVELOP, QUALIFY AND PRODUCE ALL IN ONE SUPPLIER.

Cyclopic

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Profile

Founded by Carol Rallings in 2018, Cyclopic is a cutting-edge technology company specialising in innovative robotic solutions. The company's patented electric drive system integrates drive, steering, suspension, and braking into a single unit, featuring a centreless wheel for precision height adjustment, 360-degree manoeuvrability, and autonomous levelling. This technology ensures platform stability, even during complex operations.

Cyclopic is developing an Autonomous Mobile Robot (AMR) designed to revolutionise logistics and last-mile delivery. The AMR balances loads and maintains stability throughout transit, improving speed and production efficiency across industries such as warehousing, logistics, airports, defence etc.

Awarded multiple UK government Innovate UK grants, Cyclopic is leading the Bridge AI project, which includes a digital twin simulation to showcase the technology's value proposition. In collaboration with the Alan Turing Institute, the company is also creating an autonomous airport vehicle with advanced voice-enabled tech.

Objectives

Recently appointing a Global Strategy Leader to drive international expansion, the company is moving towards their next funding round to secure orders and pilot projects.

With 20 full grant patents secured globally, Cyclopic has earned recognition with awards such as the Airbus 'Why Stop at Zero' and a nomination for ATI Best Innovation of the Year. We are also Gamechanger Challenge Winners for the Autonomous Vehicle for the National Nuclear Laboratory project (2024).

We would like to connect to robotics manufacturers and system integrators to understand the market demand for our Electric-Drive System and secure pilots in the following use cases:

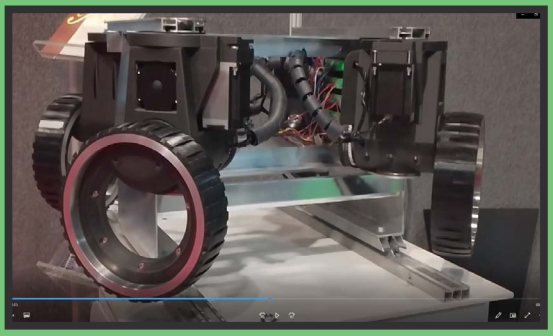
- Smart warehouses/factories
- Last mile logistics
- Autonomous vehicles in airports
- Construction

Advanced Autonomous Mobile Robots for Warehousing and Last Mile.

16 Full Grant Patents

Alan Turing & IUK Award Winners

DRIVE | STEERING | BRAKING | SUSPENSION IN ONE UNIT



FEATURES INCLUDE:

> Height adjustment.
> Advanced pitch & roll.
> Autonomous levelling.
> Boosting overall productivity and operational efficiency.

Flux^{245}

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Profile

Flux^{245} is a business that produces sustainable oil from plastic waste that would otherwise generate greenhouse gas emissions from incineration. We enable a circular plastic economy by linking waste management to manufacturing operations in the plastics value chain. Our chemical recycling process produces sustainable pyrolysis oil using microwave technology to achieve transformational returns.

Through employing a build-own-operate model, taking plastic waste from waste handlers, petrochemical companies can create high-value recycled plastic, by replacing non-renewable crude oil feedstock with sustainable pyrolysis oil. This recycled material can be sold to producers/converters further down the value chain at a significant premium to their standard product.

To date Flux^{245} has attracted government funding from Innovate UK, the UK's innovation agency, which has enabled the development of laboratory-scale plant, to achieve proof of concept.

Objectives

The use of single-use plastics is widespread in Southeast Asia, and the continent is a significant contributor to the global plastic waste problem. The environmental consequences are severe, impacting local communities, marine life and eco systems. Flux^{245} sees a significant opportunity to help address the plastics challenge in the region.

Flux^{245} has a target for global expansion of its technology, and is seeking to form strategic alliances within Singapore's advanced manufacturing sector to roll out its pyrolysis technology, enabling a circular economy for the processing of hard to recycle plastic waste and reducing environmental impacts.

Flux^{245} is seeking to engage with investors in Singapore for completion of the current Seed round raise to enable the Industrial Prototype to be built and validated before the technology is deployed at full scale and rolled out globally under licence.

Flux^{245}

Flux^{245}

Recycling plastic to oil

Enabling the plastics circular economy

Flux^{245} delivers a Pyrolysis technology which is a critical component of the circular plastics economy, enabling the up-cycling of problematic material that would otherwise be incinerated.

We acquire plastic waste from waste handlers and recycle it into oil, for sale to petrochemical companies and refineries.

Plastic used by consumers in household, commercial, and industrial activities across Europe has now reached an incredible 53.3m tonnes/year.

The Market Potential

Our Pyrolysis process can accommodate all plastic types from separate waste collection destined for energy recovery or landfill. 8.3Mt of waste is therefore available for Flux^{245} in Europe.

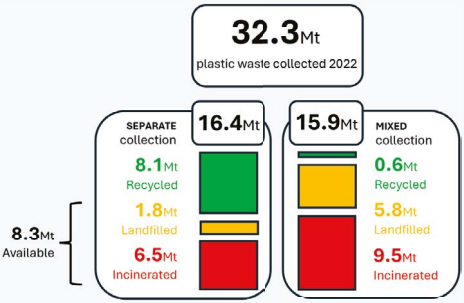

Fig 1: Post-consumer plastics waste collection and treatment data (Plastics Europe, 2024)

A Sustainable Solution

- Enabling a circular life cycle for plastic
- A significantly lower climate change impact
- Employing microwave Pyrolysis technology with a patent-pending state-of-the-art design
- Significantly reducing CO_2 emissions through groundbreaking process efficiency
- Significantly reducing the requirements of fossil fuel feedstock as global demand for plastic production projects to treble in the next 30 years.

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Visit our website flux245.com

GMP Manufacturing

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Profile

GMP Manufacturing is a trusted partner in the pharmaceutical manufacturing industry, specialising in liquids and creams and medicinal products. GMP Manufacturing operates as an MHRA-approved Contract Development and Manufacturing Organisation (CDMO). The company carries over 700 years of combined expertise in pharmaceutical manufacturing, offering in-house excellence in innovation, engineering, facility design, and regulatory compliance with MHRA, FDA, and other global standards. GMP Manufacturing is transforming traditional medicine production through advanced technology, delivering higher efficiency, enhanced patient safety, and cost-effective solutions, with a focus on the UK, EU, and expanding into Asian markets.

GMP Manufacturing is MHRA-approved to import and QP release medicinal products into the UK and EU. The company has a proven track record of delivering excellence in pharmaceutical manufacturing, supported by a team of technical experts with decades of experience.

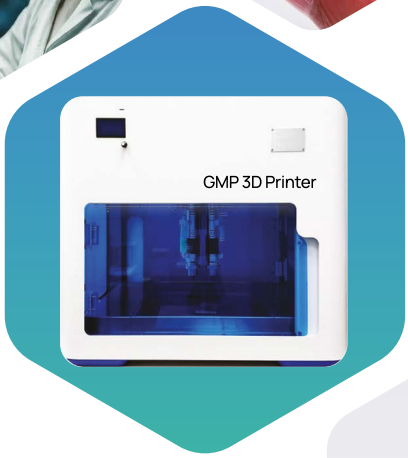
Objectives

GMP Manufacturing aims to form strategic alliances in Singapore, partnering with key players in the pharmaceutical and biologics sectors. We are seeking strategic partners to establish our point of care personalised medicinal 3D printing capability to the wider Asian market.

The company is actively seeking collaboration with innovative technology providers in AI, robotics, and intelligent manufacturing to enhance pharmaceutical production. By establishing local partnerships, GMP Manufacturing plans to integrate its advanced technology platform into Singapore's advanced manufacturing landscape, supporting both local market needs and regional expansion.

GMP Manufacturing Ltd®
Your Trusted CDMO Partner

GMP Healthcare PTE. Ltd
Your Innovation CDMO Partner



Shaping the future of medicine manufacturing, unlocking new horizons

We are pioneering a new era of personalised medicine using advanced 3D printing to manufacture custom combination therapies — right at the point of care. Our technology enables the creation of a single, tailored dose for each patient, making precision medicine not only possible but also scalable, affordable, and accessible worldwide. It transforms how therapies are delivered — bridging innovation with real-world health impact.

Our profile

- → UK Based medicine manufacturing heritage.
- → 3D Printing capability to make personalised medicine & vitamins.
- → Innovation & Product development capability.
- → Experts in LCO, sterile, aseptic and ATMP manufacturing.
- → UK & EU GMP Services.
- → Provide Tailor-made Consultancy Services.

We provide

- Complete CDMO solutions.
- We are MHRA approved to import and QP release medicinal products for our international partners to the UK and EU markets.
- Singapore entity to support the Asian market.

We are

MHRA Approved Facility | ISO 13485 : 2016 22716 : 2007 Certified | BCMPA Registered Member

Our key specialities

- 3D Printing personalised Medicine & Vitamins
- UK In-house CDMO (Manufacturing Facility)
- Primary, Secondary & Tertiary Packaging
- In-house EU FDA, MHRA Regulatory expertise
- Supply of Synthetic DNA/mRNA
- Manufacturing Innovation & Product Development
- Formulation Development & Product Remediation

Scan now

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Your Trusted CDMO Partner

GMP Healthcare PTE. Ltd
Your Innovation CDMO Partner

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Hybrid Manufacturing Solutions

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Profile

HMS provides an advanced automated multi-material 3D printing system designed for autonomous end-to-end part production. The technology combines multiple additive and post-processing tools to automate the production of complex and multi-material parts with high precision, speed and reduction in the waste generated by manual post-processing.

Combining DLP-SLA, FDM, and inkjet printing with 5-axis CNC, laser heating, and wet/dry curing, enables users to seamlessly manufacture complex, high-performance components. With over 60 years of combined expertise in advanced manufacturing, the team focuses on improving precision, efficiency, and material versatility in AM production to meet industry demands. Supported by an Innovate UK SMART grant and VC investment, HMS is driving innovation in additive manufacturing for advanced manufacturing applications.

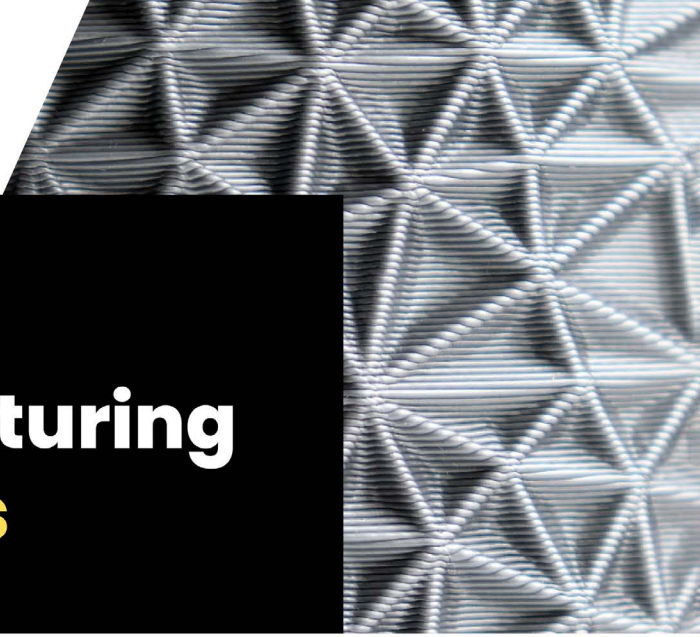
Objectives

HMS is revolutionising additive manufacturing with advanced multi-material 3D printing for autonomous, end-to-end production. The company's vision is to enable high-performance, cost-effective, and scalable manufacturing solutions that surpass current industry limitations. HMS aims to transform how complex components are designed and produced in advanced manufacturing applications.

In Singapore, HMS seeks to build relationships with local enterprises to validate its technology through proof-of-concept studies with real world applications. The company aims to collaborate with local research institutions, manufacturers, and innovation hubs to accelerate commercialisation. By engaging with Singapore's advanced manufacturing ecosystem, HMS plans to refine our technology for real users' needs ahead of the upcoming product launch.

HMS

HMS



Hybrid Manufacturing Solutions

Hybrid Benefits

Integrated additive and post-processing tools allows users fully fabricate parts in a single automated process.

Automating end-to-end additive production gives users:

- Lower production costs and faster manufacturing
- Improved precision and quality
- Finer part tolerance and production repeatability
- Reduced labour input needs

Innovate with HMS

We're calling on companies to put our technology to the test. Bring us your real-world AM production challenges and we'll prove our system's edge over the competition. Backed by in-house expertise in additive manufacturing, prototyping, and design, we're ready to turn challenges into breakthroughs.

CONTACT US

HMS Mission

Founded by a team of manufacturing experts, HMS was created to solve the problem of scalability in additive manufacturing. With a patent in process, and funding from venture investors and Innovate UK, we're building the next-generation of automated end-to-end additive manufacturing systems.

Integrated technology

The HMS can autonomously run multiple tools in one single production cycle.
Currently available tools:

1. **Digital Light Processing SLA**
2. **Drop-on-Demand InkJet**
3. **Pellet extrusion FDM**
4. **5-Axis CNC with auto tool changer**
5. **Laser and IR heating**
6. **Washing and curing systems**

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Scan the QR code

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Profile

Holdson is a UK-based advanced manufacturing company specialising in electrochemical surface finishing for high-performance metal components. Our patented electroform® technology delivers fast, acid-free, and precision-controlled polishing that enables manufacturers to improve fatigue life, achieve consistent surface quality, and finish complex internal geometries. Designed for additive, cast, and sintered parts, electroform® supports critical sectors including aerospace, med-tech, defence, and energy.

Holdson are ISO 9001 certified and work with leading partners across advanced manufacturing and materials. Current collaborations include UKAEA on additive manufacturing (AM) tungsten for nuclear energy, the University of Birmingham on med-tech stent materials, and the University of Huddersfield on a patent-pending dynamic contour tool. Alongside joint R&D projects optimising AM and post-processing, we are also an approved supplier for aerospace research, supporting industry leaders and OEMs.

Objectives

With growing traction from OEMs and R&D institutions, Holdson is scaling internationally with a strong focus on APAC. Our systems replace outdated abrasive or chemical methods, offering a more sustainable, automated solution compatible with Industry 4.0 standards. We support design-for-post-processing workflows and are enabling next-generation manufacturing efficiency.

Holdson is advancing plans to establish a Singapore-based polishing and support hub, following its Slingshot 2024 success. Discussions are underway with academic R&D hubs and local distributors. Backed by Enterprise Singapore, the aim is to deliver polishing services and demo units across APAC. At ITAP, Holdson will strengthen regional partnerships, reconnect with Slingshot leads and engage OEMs, R&D institutions and government stakeholders to accelerate commercial growth.

holdson
DYNAMIC ELECTROCHEMICAL SOLUTIONS

holdson
DYNAMIC ELECTROCHEMICAL SOLUTIONS

Get in touch today to learn more :

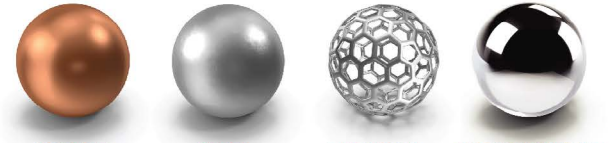
ADVANCED METAL POST-PROCESSING SOLUTIONS

Advanced metal polishing solutions that result in a smooth, uniform, and precise finish on manufactured parts.

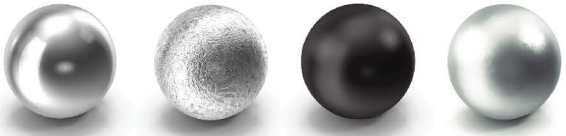
- DEFENCE
- AUTOMOTIVE
- AEROSPACE
- MED-TECH
- ENERGY & NUCLEAR POWER

INDUSTRY 4. & AI INTEGRATION

MATERIAL COMPATIBILITY



COPPER STEEL TITANIUM COBALT CHROME



ALUMINIUM TUNGSTEN CAST IRON NICKEL ALLOYS

GRAND FINALIST
SLINGSHOT
POWERED BY STARTUP SG

Hydra Manufacturing

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Profile

Hydra Manufacturing is a hybrid 3D printing machinery provider whose solutions transform the accessibility and utilisation of engineering-grade, high-performance components for the high value manufacturing industries including aerospace, medical and power generation.

By enabling greater levels of product customisation, complexity, and functionality, Hydra supports the processing of challenging materials such as ceramics. The company technology overcomes the existing limitations of 3D printing with high performance materials, integrates seamlessly into existing production lines, and facilitates the use of environmentally friendly feedstocks.

Hydra Manufacturing, a University of Leeds spinout, has secured Innovate UK and other funding to commercialise its technology. Our first key customer, Lucideon, is housing our equipment at the UK Applied Materials Research, Innovation, & Commercialisation Company (AMRICC).

Objectives

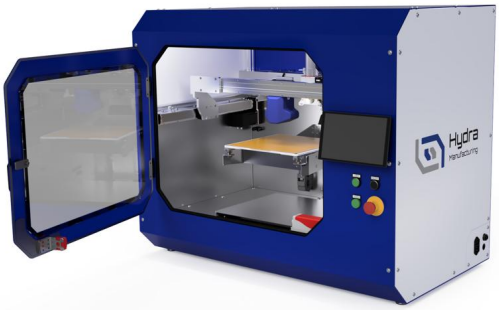
The vision of Hydra Manufacturing is to become the global leader in providing hybrid 3D printing machinery that is capable of processing high performance materials including ceramics and refractory metals into high value products and components.

The global technical ceramics market is worth $95bn USD in 2022 with the Asian market representing over 41% of this market. Singapore is a key market due to the expertise in high value manufacturing and potential customers. Singapore can also act like a gateway to target other countries in SE Asia including Malaysia and the Philippines. Furthermore, the highly skilled workforce and mature supply chain opens up future opportunities for producing the Hydra Machinery for the Asian market in Singapore.

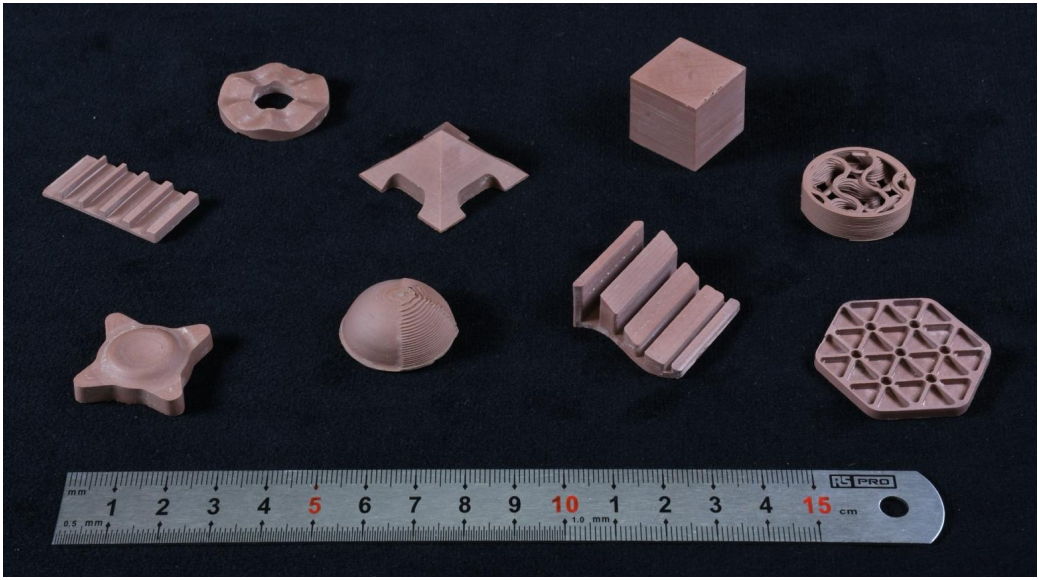
We would like to connect with partners and secure pilots in the following use cases:

- Aerospace
- MedTech
- Industrial chemical processing
- Water purification
- Semiconductor/electronic equipment manufacturers

3D Printing high performance materials for the manufacture of high value products and components.



- Low environmental impact
- New material possibilities
- High resolution
- Seamless integration
- Low-cost production

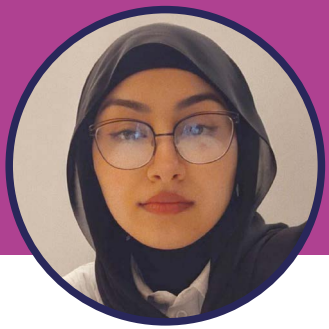


- Industry spec quality and **safety**
- Refined over **10 years** of research
- **Modular tool configurations**
- Machine learning for **defect-free** parts

Find out more

Hydra Manufacturing

OneSC



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Profile

OneSC is an innovative SAAS platform operating alongside regulated supply chains (i.e., pharma, food, medical devices), offering end-to-end visibility through a unified single source of truth.

CHALLENGE: 48% of manufacturers still rely on error-prone manual procedures, increasing risk of costly product recalls (up to £.5bn) and non-compliance fines (up to £1.75bn).

SOLUTION: OneSC automates GMP & GDP processes to reduce batch review & release times by up to 50%, minimising the need for expensive skilled professionals and enabling faster, more accurate product releases.

BENEFITS: Leveraging AI, OneSC reduces product wastage, extends shelf life, and accelerates time to market while ensuring regulatory compliance in your target market. OneSC is also developing carbon emissions accounting for logistics and manufacturing, driving sustainability across the supply chain.

Objectives

SEEKING

- **STRATEGIC PARTNERSHIPS** with manufacturers, packagers & logistics players with a digital transformation agenda to increase efficiency, reduce cost and improve accuracy
- **REGULATORS** who want to automate regulatory processes and audit reporting
- **INVESTORS** who are passionate about SAAS platforms & SupplyChainTech and can actively support expansion into APAC

GOALS

Developing SupplyChain DeepTech: working through strategic alliances to build DeepTech solutions that reduce batch processing times, lower costs and positively impact the ESG agenda.

Customers: Connect with supply chain players to trial DeepTech Solutions.

APAC Expansion: Establish a regional base, with investment support, in Singapore to drive expansion into Malaysia and other APAC countries.

AI-Driven Cloud Solutions for Smarter Supply Chains

01.

Increasing

- End-to-end visibility
- Staff throughput & productivity
- Traceability

02.

Reducing

- OPEX by 30%
- Batch review, release, & lead times
- Overstock & out-of-stock issues

03.

Automating

- Batch operations
- KPI reporting & SLA monitoring
- Audit reports

- Ensures compliance with FDA 21 CFR part 11 & Eudralex Annex 11
- Robust version control, secure doc. management & compliant e-signature workflows

OneSC fits into your digital transformation strategy by leveraging your existing systems to allow your organisation to achieve a true platform approach with built for purpose, yet seamless solutions, by leveraging AI and other proven technologies.

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Peak to Peak Measurement Solutions

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Profile

Since 2009, Dr. Henry Brunskill and Dr. Andy Hunter, founders of Peak to Peak Measurement Solutions Ltd., have been pioneering proprietary sensor technology trusted by leading engineering organisations worldwide.

With a proven history of delivering advanced measurement and monitoring systems across the transport, manufacturing, semiconductor, and energy sectors, Peak to Peak's unique non-invasive sensors integrate seamlessly into existing infrastructure, enhancing problem-solving, optimising design, and improving process efficiency.

Now, Peak to Peak Measurement Solutions Ltd. is introducing a cutting-edge product line for fluid property characterisation with a primary focus on polymer processing and manufacturing. This advanced sensor technology enables precise control over final product characteristics while significantly reducing material waste, driving both quality and sustainability in production.

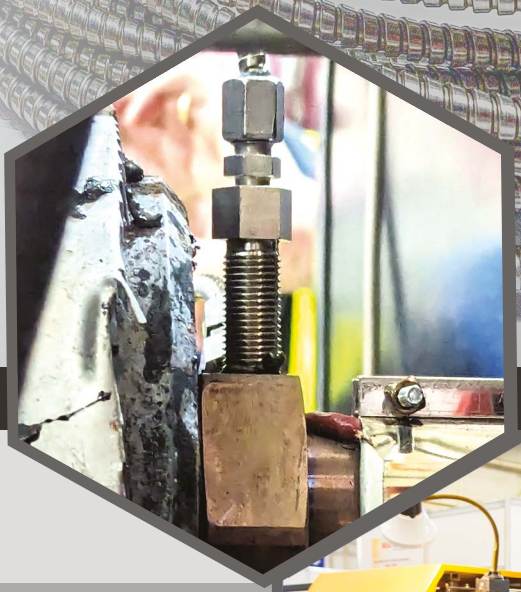
PEAK TO PEAK
Measurement Solutions

Objectives

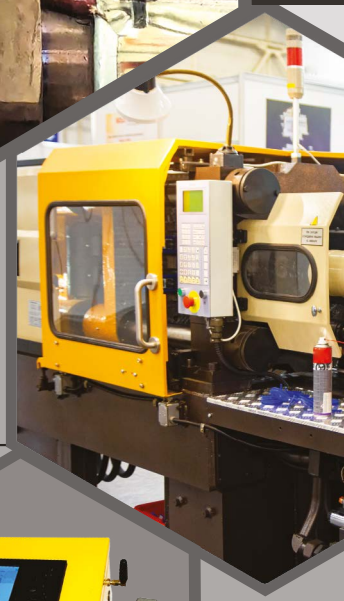
Peak to Peak Measurement Solutions Ltd. is focused on strengthening and expanding partnerships within Singapore's advanced manufacturing sector. In addition to building on our existing relationships, we are keen to meet new companies interested in advancing their polymer processing using our non-invasive, real-time sensor technology. Our current focus includes extrusion, compounding, injection and blow moulding, as well as processing recycled and next-generation material development.

We are looking to set up industrial trials with Singaporean manufacturers to demonstrate how our retrofittable sensor systems can deliver improvements across setup time, product quality, waste reduction, and digital traceability. We invite interested companies to get in touch to explore how we might collaborate. Please reach out via the contact email provided—we'd be pleased to connect during our visit.

PEAK TO PEAK
Measurement Solutions

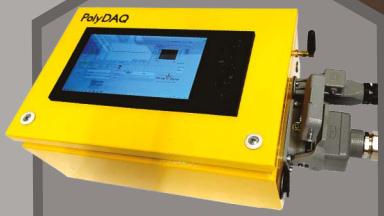


Advanced Polymer Processing with Intelligent Sensors



Measurement of key polymer melt properties, including viscosity/MFI, density, and compressibility in ***extrusion***, ***compounding*** & ***injection moulding***

- Retrofittable and in-line solution for simple machine integration
- Closed-loop control for lights-out machine operation
- Optimises efficiency and increases throughput
- Ensures quality and traceability whilst minimising wastage



Part of our wider range of fluid property sensors designed to enhance manufacturing efficiency across industries including: chemical processing, biomedical, agri-food, water treatment, and material recovery.

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Voxshell

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Profile

Voxshell, founded by Liang Yang, is a spin-out from Cranfield University specialising in Computer-Aided Engineering (CAE) solutions for Additive Manufacturing (AM). The company focuses on preprocessing for CAE, offering an extremely fast and robust preprocessor tailored for AM design and production workflows. By streamlining the design-to-manufacturing cycle, Voxshell enables engineers and manufacturers to accelerate innovation, improve efficiency, and reduce production costs.

As part of its growth journey, Voxshell was selected for the UK's first Digital BIC Programme, funded by STFC, recognising its cutting-edge technology and innovation in the AM sector. The company has successfully secured trusted customers from both large enterprises and SMEs, building a strong reputation in the industry.

Voxshell has also established strategic partnerships with leading AM design companies and is actively expanding its presence in key industries such as aerospace, energy, and healthcare.

Objectives

Voxshell is seeking to forge partnerships with local firms and collaborate with key industry stakeholders in Singapore to expand its market presence. With a strong commitment to supporting Singapore's advanced manufacturing sector, the company aims to introduce its high-performance CAE solutions to local businesses, enabling them to optimise their AM design and production processes.

To accelerate its expansion and enhance its technological capabilities, Voxshell is actively pursuing VC investment to scale its operations and drive growth in the Asian market. By leveraging its expertise in preprocessing solutions for CAE, Voxshell seeks to integrate seamlessly into Singapore's manufacturing ecosystem and support the nation's Industry 4.0 initiatives.

We would like to connect with companies active with additive manufacturing in these sectors:

- Aerospace
- Automotive
- Energy
- Prototyping and R&D companies

Next-Generation Software for Additive Manufacturing Design

At Voxshell, we're redefining the design process for additive manufacturing with cutting-edge, AI-ready technology that eliminates traditional bottlenecks

Smarter Design for Additive Manufacturing

Revolutionizing design with AI-ready, SDF-based technology: no geometry cleanup needed

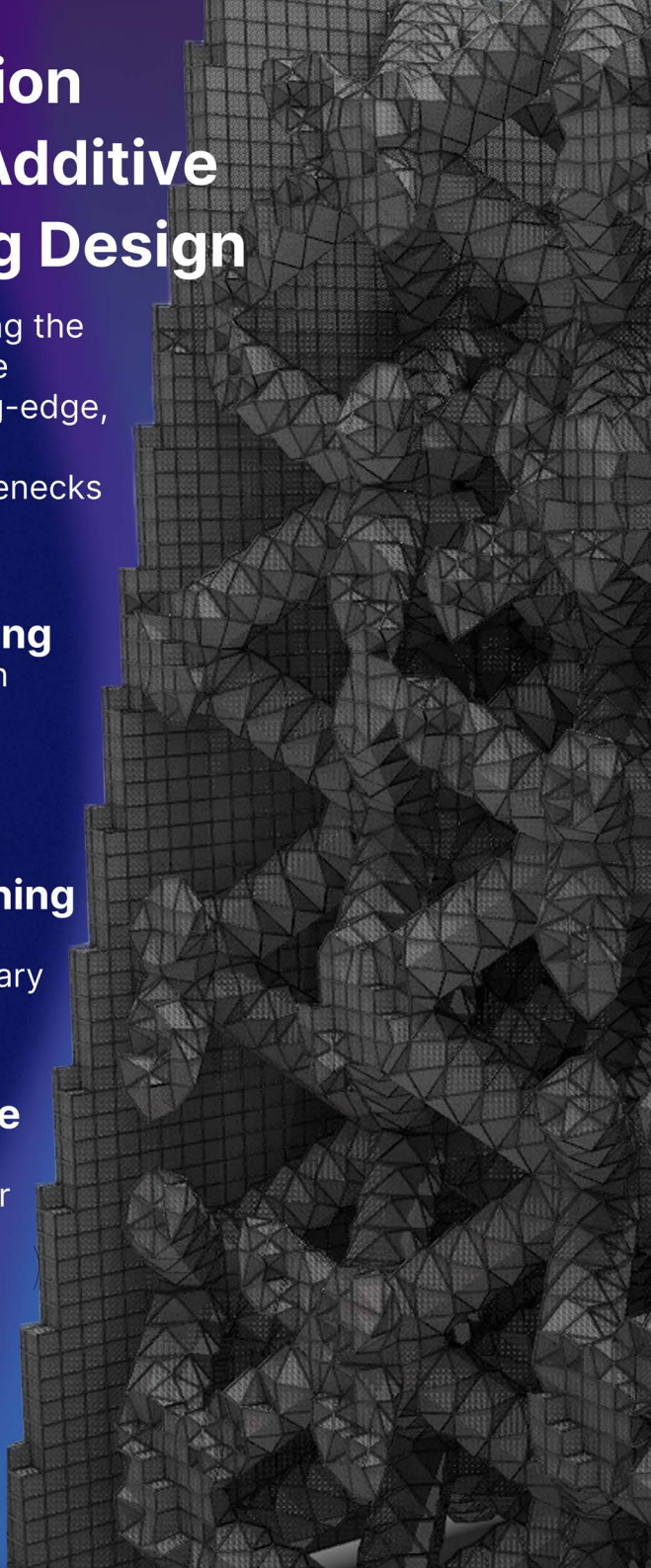
Fully Automatic Meshing

Just 1–2 parameters. No learning curve. Mesh arbitrary shapes in under 5 minutes

Scalable Performance

From desktops to HPC clusters: we scale with your needs

Find out more.



Notes

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