

EIT Manufacturing presents 20 start-ups at EMO Hannover

Europe's largest manufacturing innovation network connects industry and innovators

[EIT Manufacturing](#), Europe's largest innovation ecosystem for the manufacturing industry, brings together start-ups and industry under the motto "Connecting the dots". While the organisation is present with three booths in hall 9 at EMO Hannover 2023, one of them, booth E34, will focus on start-ups. EIT Manufacturing is one of nine knowledge and innovation communities supported by the [European Institute of Innovation and Technology \(EIT\)](#), a body of the European Union.

In the dedicated Start-Up Area of EMO Hannover, Hall 9 | Booth E34, EIT Manufacturing will feature 20 European start-ups from its innovation community. All teams have a proven track record in manufacturing and have gone through a thorough assessment successfully to be supported by EIT Manufacturing. Their fields of activity range from artificial intelligence to zero defect inspection. They originate from 12 European countries and bring their unique perspectives to Germany.

For two three-day periods, one from 18 to 20 September, the other from 21 to 23 September, they will showcase their innovative solutions at the collective stand.

The start-ups will not only have the opportunity to exhibit their solutions and address potential customers but will also present their technologies in an Access2Tech Europe event. This event, co-organised by the economic development agency [hannoverimpuls](#), connects representatives from industrial corporations or small and medium-sized enterprises, who are seeking groundbreaking solutions for their challenges, with start-ups from the extensive EIT Manufacturing portfolio.

The Access2Tech Europe event will first give stage time to all participating young companies, in which they will publicly pitch to the audience at EMO Hannover on 20 September 2023 from 11:00 to 13:00 in the Innovation Forum of Hall 9 | Booth E34. After this, start-ups and industry representatives will have the chance to meet for one-to-one conversations to explore collaboration opportunities.

From 18 – 20 September 2023, the following companies will exhibit:

[ai-omatic solutions](#) provides a cloud-based software solution for predictive maintenance. Their solution analyses and visualises sensor data from machines with a unique algorithm that blends statistical methods with neural networks. This enables easy and convenient machine monitoring through a web browser, preventing machine failures before they occur.

[ChainTraced](#) provides digital traceability solutions, tracking raw materials to end products across the metal value chain. Their tools estimate CO₂ emissions, promote value chain collaboration and automate quality compliance by analysing supplier data for early warnings on potential failures.

Darmstadt, 13 September 2023



[Cyber Evolution](#) is a network security pioneer. Their Blackbox Plug&Play device, LECS, is designed to protect LAN and cloud infrastructures from cyber threats and attacks. LECS features cutting-edge technologies like the Metamorphic Engine, Level Zero OSI Response, and predictive, intelligent as well as autonomous capabilities. Cyber Evolution's LECS provides robust and comprehensive protection for critical infrastructures in situations in which traditional firewalls may fall short.

[Kheoos](#) is a B2B marketplace facilitating connections between manufacturers, distributors and brokers for industrial maintenance parts. The platform enables manufacturers to create customised catalogues, reduce inventory levels, minimise breakage risks and resell dormant stock to generate additional revenue. In addition, it facilitates finding rare pieces.

[Linqcase](#) provides state-of-the-art technology solutions for non-destructive quality inspection (NDT). Their magnetic techniques allow evaluating robustness through pattern identification without sacrificing parts for quality checks. The result is more cost-effective, faster and more reliable 100%-part quality control.

[MaestroHub](#) supports digital transformation initiatives in manufacturing. Their digital infrastructure makes information accessible to anyone and any system in real time. Integration efforts are reduced by 80%, saving 50% of time through automatic contextualisation. Enhancing efficiency and usability, domain experts can conduct their analysis using drag and drop technology.

[OndoSense](#) provides measurement precision of up to 1 µm via radar-based technology. Their solutions work effectively, even in challenging conditions like steam, dust and extreme temperatures. With expertise spanning hardware design, software and algorithms, they offer exceptional solutions for process automation.

[ONIQ](#)'s IQ/A software employs industrial process mining to automate the visualisation of production and logistics processes across the company using existing data from various IT systems. Through machine learning-based root cause analyses and automatic lean manufacturing analyses, their solution identifies inefficiencies on the digital value stream twin, thus enabling efficient problem-solving.

[Plasmotion](#)'s jet plasma polishing (JETPEP) revolutionises automated metal surface finishing, delivering manual-quality results with flexibility. Their solution eliminates the slow, expensive, error-prone and environmentally burdensome aspects of manual finishing, while excelling in handling large, complex parts and selective surface requirements. JETPEP provides shiny results in seconds and consumes five times less energy compared to traditional methods that take hours.

[Plastic Repair System](#) offers a circular economy solution, repairing returnable plastic packaging used in B2B, supply chain logistics and production operations. Their approach saves costs, reduces the need to buy new items by 30%, and, compared to recycling cuts CO₂ emissions by 311 times. Additionally, it speeds up delivery by 10 times, making plastic repair an efficient and sustainable alternative.

From 21 to 23 September 2023, the following companies will exhibit:

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[EZMEMS](#) offers a cutting-edge solution for sensor fusion through edge multi-sensing. Their integrated high-performance system on a plastic chip, connected to an edge computing module, utilises composite polymer-based materials, bypassing the limitations of traditional semiconductor approaches.

[Helmee Imaging](#)'s automated visual inspection technology addresses the unpredictable, biased and inflexible factors of human visual quality inspection in the automotive industry. Achieving 99% inspection accuracy in high-gloss parts, it reduces lead times, ensures consistent inspection quality, adapts to production fluctuations and reduces recruitment concerns.

[HCP Sense](#) effectively turns standard bearings into sensors. They offer an economical sensor for roll bearings which collects, measures and analyses crucial data for process monitoring and predictive maintenance real-time: forces and lubrication conditions. With successful test phases and implementation in various customer applications, HCP Sense provides a non-invasive and non-disruptive measurement method – without any design changes in machines.

[Nista.io](#) empowers individuals to make a significant impact on reducing energy consumption in the industry. Their no-code platform enables businesses to harness the potential of IoT and become experts in analysing their own data. Advanced AI technology makes energy efficiency a seamless process, conducting analyses and tests and suggesting solution.

[Oliveex](#) offers a seamless transformation of existing processes into fully digital, paperless and transparent systems. With a deep-dive approach tailored to specific sectors, they provide data analytics that address sector-specific pain points and offer actionable insights focused on quality, cost and performance indicators.

[Sensemore](#) specialises in data-driven solutions to optimise industrial operations. Their mission is to reduce unexpected machinery downtime by 90%, lower maintenance costs by 25% and extend equipment life by 20%. With advanced AI tools and a comprehensive platform, Sensemore supports a digital maintenance culture, achieving significant energy savings of 15% and contributing to a 10-15% reduction in the carbon footprint.

[Shiratech-Knowtion](#) specialises in predictive maintenance through advanced AI technology via their proprietary sensor unit. They offer a hybrid, non-intrusive solution that seamlessly integrates hardware and software. With three AI layers for optimal performance and results, they offer an all-in-one predictive maintenance platform to help businesses maintain efficiency and reduce downtime.

[VIAR](#)'s REWO platform offers digital video work instructions, enhances efficiency and productivity of manufacturers. It preserves tacit knowledge, addresses the challenge of retiring workers and accelerates learning for skilled trade workers, providing an intuitive and ISO-compliant knowledge digitalisation solution. Trained with REWO, people retain three times more information, and the platform is four times faster than traditional documentation techniques.

[Viking Analytics](#) offers predictive maintenance for industrial companies using AI. Their core software, MultiViz, empowers industrial specialists to extract insights from process and asset data, enabling data analysis, annotations, and AI application deployment. With MultiViz Vibration, maintenance

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professionals and vibration analysts benefit from automatically generated priority lists, detecting abnormal behaviours, setting smart alarms, and identifying machines requiring inspection.

Only present Wednesday:

[DENKweit](#) simplifies complex image evaluations with the latest AI technology, requiring no prior knowledge. It achieves high accuracy with just 15 images, saving time and data for training. The user-friendly platform grants easy access to multiple technologies, benefiting both experts and those new to AI.

[INMOX](#) is a provider of innovative technology for industrial gearbox maintenance and optimisation. Their real-time wear particle characterization enables powerful damage models, allowing accurate lifetime estimation of gearbox components. By offering solutions to efficiently plan maintenance and reduce operational costs, Inmox aims to be a trusted partner for industries reliant on critical gearboxes.

Background information

[EIT Manufacturing](#) is supported by the European Institute of Innovation and Technology (EIT), a body of the European Union, and it is one of nine innovation communities within EIT. EIT Manufacturing's main goal is to bring European stakeholders focused on manufacturing together in innovation ecosystems that add unique value to European products, processes and services and inspire the creation of globally competitive and sustainable manufacturing. EIT Manufacturing brings together more than 80 members from universities, research institutes and business.

The [European Institute of Innovation and Technology](#) (EIT) strengthens Europe's ability to innovate by powering solutions to pressing global challenges and by nurturing entrepreneurial talent to create sustainable growth and skilled jobs in Europe. The EIT is an EU body which is an integral part of Horizon Europe, the EU Framework Programme for Research and Innovation. The Institute supports the development of dynamic pan-European partnerships – EIT Knowledge and Innovation Communities – among leading companies, research labs and universities.

EIT Manufacturing — Making Innovation Happen!

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