

Professional Heavy Metal Fabrication Supplier Highlights at EMO Hannover 2025



Xiamen, Fujian Dec 15, 2025 ([Issuewire.com](https://www.issuewire.com)) - Global manufacturing is at a turning point. New technologies, as well as demands for efficiency and sustainability are reshaping the way we make goods. This evolution is especially pronounced in the metalworking industry, which drives innovation at every level of the production process. EMO Hannover, the leading production technology trade fair in the world, will focus on this transformation. Openex, a [professional heavy metal fabricator](#), is well aligned to this future.

EMO Hannover: The Heartbeat of Metalworking Technology

EMO Hannover is more than just a tradeshow; it's a barometer of the entire metalworking sector. Organised by CECIMO (the European Association of the Machine Tool Industries), the event brings manufacturers, suppliers and users together from around the world. EMO is held biennially in Germany at the Hannover Exhibition Center. It provides an overview of the entire metalworking value chain, from machine tools and tooling through to software and surface finish.

EMO Hannover, which will be held from September 22 to 26 2025, will serve once again as a platform that showcases the latest advances and helps shape the future of manufacturing. The EMO Hannover exhibition will feature an array of cutting-edge technologies, all focused on themes such as digitalization, automation and sustainability.

The following are the key trends that you should be looking out for at EMO Hannover in 2025:

- **Digitalization and Smart Factory:** The integration of technologies such as Industrial Internet of Things, artificial intelligence, and machine learning is not a concept of the future but rather a reality today. EMO 2025 will focus on solutions that allow smart factories where machines can

communicate, data is used to predict maintenance and production is optimized real-time. This level of connectivity results in increased efficiency and decreased downtime.

- **Automated and robotic manufacturing:** Automation revolutionizes the factory floor in particular for repetitive and complex tasks. Robots are getting more advanced, and can handle intricate operations such as welding, material handling, or quality inspection, with unmatched precision. Not only does this increase productivity, but it also increases worker safety and improves the consistency of final products.
- **Sustainability and Resource Efficiency** - The drive for greener manufacturing has been a major driver of innovation. EMO 2025 features new machine tools, processes, and technologies designed to reduce energy consumption, waste, and utilize materials more efficiently. Dry machining is one of the innovations, as it eliminates the use of cutting fluids. Other technologies include recycling and repurposing.
- **Additive Manufacturing and Hybrid Solutions.** While EMO's traditional focus is on subtractive manufacturing (3D printing), the integration of additive manufacture (3D-printing) is a trend that continues to grow. Hybrid machines, which combine traditional machining and 3D printing capabilities, allow the creation of complex geometry and prototypes. This reduces design cycles and opens up new possibilities for part production.

Collectively, these trends point to a future of metalworking that is more efficient, intelligent and sustainable. The companies that are able to integrate these technologies effectively into their operations, will have the best chance of long-term success.

Openex - Your one-stop solution for heavy metal fabrication

Openex is a company who has already adopted these principles in this ever-changing landscape. Openex, as a one-stop contract manufacturer that offers a wide range of services, is more than just a supplier. They are a partner for [Heavy Metal fabrication](#). Openex's business model is based on the principles of providing the highest level of quality and customer service from the initial concept through to the final delivery.

Core Competencies

Openex's value proposition is unique in that it can handle all stages of a large-scale fabrication project under one roofing² which include cutting of the raw material by laser, plasma, water jet, torch, saws; then the forming such as bending, rolling, pressing; then welding, and finally heavy machining and finishing. This integrated approach allows for seamless execution, reduced logistical complexity, and consistent quality throughout the entire process. The vast array of advanced facilities that support their extensive capabilities includes:

Machining Openex has over 1,000 advanced machines that can be used to precision machine large custom parts. It is essential for the creation of components that meet the strict tolerances demanded by heavy industry.

Cutting The cutting department is equipped with a variety of technologies including water jets, lasers, plasmas, robotic contour cutting, flames, and saws. They can cut any material with precision, whether it is thin sheets or thick plates.

Welding Openex has a team of highly skilled welding personnel who have extensive experience with multiple welding processes. This knowledge is essential for creating durable and strong fabrications in

heavy industrial applications.

Rolling Plates: The company has a specialized plate rolling department that can roll plates up to 5,0mm in width and 200mm in thickness. This is a vital capability for the manufacture of large cylindrical and conical shapes.

Press Breaking: They offer press braking to shape long parts in various angles and shapes.

Quality Control: An extensive quality control system has been implemented to ensure all products delivered meet or exceed customer specifications. Openex will only deliver conforming products, from material testing to final checks.

Client Success Stories and Product Applications

Openex's experience is used in some of the most demanding sectors, where reliability and size of components are essential. They are used in major industrial projects all over the world.

Mining & Construction: The Openex Group manufactures large components for mining excavators and loaders. These parts such as structural booms and large frames must be able to withstand extreme stresses and perform reliably under harsh conditions. Recent project included fabricating and milling the main chassis of a large surface miner. This component required exceptional strength and accuracy.

Oil and Gas The firm produces heavy-duty parts for offshore platforms and pipelines. These structures are subjected to high pressures and corrosive conditions. Openex has proven experience in fabricating pressure vessel sections and complex pipe spools for leading energy companies.

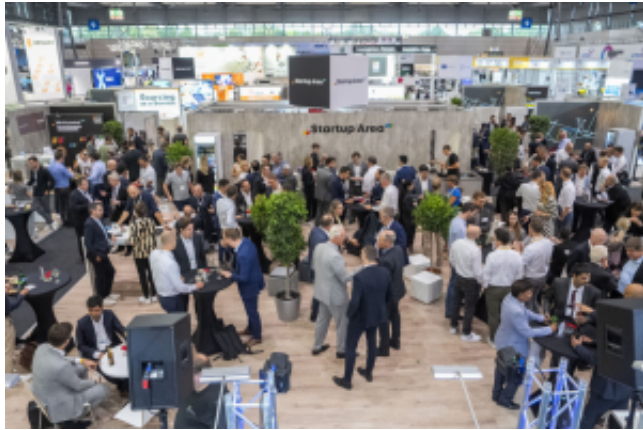
Power generation: Openex manufactures large-scale fabrications in the power sector. These include turbine casings and generator frames. A successful project involved the fabrication of a number of intricate turbine casings to upgrade a major power station, while meeting the strictest quality and safety standards.

Shipbuilding & Marine: Openex manufactures and machines large sections of hull and other marine structures for the shipbuilding industry. Openex is able to meet the high standards of international maritime standards with its capabilities.

The Future of Openex

Openex's model of a one-stop shop is perfectly aligned with the future manufacturing where efficiency, technology and quality are key. Openex shows how the latest technological advances are implemented in real-life scenarios, delivering tangible and high-quality results to clients around the world.

To learn more about their comprehensive capabilities and services, visit Openex's official website: <https://www.cncmetalworking.com/>



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Source : Openex

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