

# MX3D

**ROBOTIC 3D METAL PRINTING**

 **MARITIME**

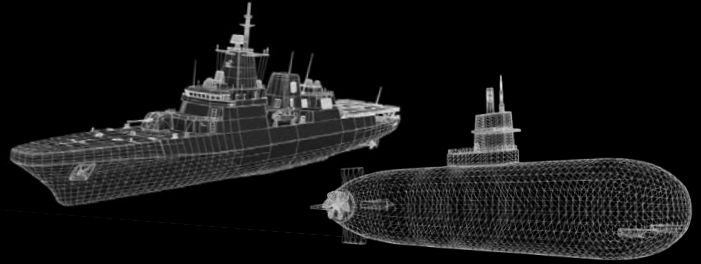


## ACCELERATING MARITIME READINESS WITH MX3D'S WAAM TECHNOLOGY

### CHALLENGES

- Strained lead times in Maintenance, Repair & Overhaul.
- Spare parts are not available.
- Casted and forged parts.
- Castings can have quality issues.

> **MX3D's technology is the foundry of the future!**



### MX3D'S SOLUTION

- MX3D enables the maritime industry to 3D print metal bigger and faster using Robotic Wire Arc Additive Manufacturing (WAAM).
- Slashes lead time by months for unique large-scale metal parts (new, optimised, replacement and/or repair).
- Parts manufacturing and repair can be done on-site or near-dock.
- Stores CAD files in a digital inventory for immediate on-demand production when future need is high.
- Reverse Engineering (3D scanning legacy parts) into 3D printing files.

> **Our technology allows for on-site and on-time critical component production.**

### COMPANY

- World leader in robotic 3D metal printing supplying the US DoD, Framatome, DAMEN Shipyards, BMW Group, ESA, etc.
- Capable of printing complex parts larger than 5000mm and over 5 tonnes of weight.
- Provides qualified on-demand manufacturing and advanced turnkey solutions (M-Systems).
- ISO9001 certified. Audited for API20S. Works with LRQA, DNV, and Bureau Veritas.
- Highly experienced in (stainless/high strength/duplex) steels and others such as Inconel, copper and NiBrAl.
- Can meet strict certification requirements, including nuclear, naval, and maritime parts.
- Largest production facility in Europe, with 15+ robots running.

> **MX3D is the go-to company for qualified metal 3D printed naval parts of any size.**

### APPLICATIONS

Propellers  
Impellers

Hull Sections  
Structural Parts

Rudders  
Flanges

Hinges  
Bulkheads

Valves  
Connectors

*For large-scale parts,  
also in specialty materials*

### BENEFITS

- Increased strategic autonomy.
- Significantly faster parts delivery.
- Obsolete parts manufacturing through reverse engineering.
- Significantly improved supply chain resilience
- Domestic/local part production enablement.
- Spare parts inventory level reduction.
- Immediate on-demand parts manufacturing capability.

> **MX3D makes companies become more autonomous, efficient and resilient to supply chain disruptions.**

