



For optimized serial production



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Setting the industry standard for serial production

Collaboration – Innovation – Transformation

e⁻MELT[®]-iM is a game changer for industrial serial production, reaching higher productivity combined with open source accessibility in an industrial package.

Innovative design featuring interchangeable, and actively cooled build modules to enable outstanding productivity for a streamlined workflow with low manning. Part recovery and powder handling are relocated to a separate, designated turnaround station for improved efficiency and safety.

With a focus on automation and ergonomics, e⁻MELT[®]-iM delivers superior productivity at the lowest TCO (Total Cost of Ownership), and an efficient factory footprint while improving the work environment and enabling a green transition in the manufacturing industry.



Technical data e⁻MELT[®] -iM per Melt station and Build module

Beam power
Beam acceleration voltage
Build envelope
Process vacuum level

Build sensorics

Variable 0-6 kW 60 kV Ø 100 x H 325 mm 10⁻⁵ hPa (mbar) Backscattered electron detector, Pyrometer, NIR camera

Build module docking to beam on	20 minutes
Non gravity powder feed	Push piston
Spot size (min, FWHP)	200 µm
Operating system	Linux
Build file format	Open Build File (OBF)
Process variables	Real time



Open source system

OEM agnostic interfaces for production process integration

Superior electron gun

High power with maintained beam quality Improved productivity in high volume manufacturing

Outstanding heat management

ProHeat® Preheating Pixelmelt® Spotmelting Build tank cooling

Fleet management

Realizing digital manufacturing

Maintenance

Asset condition monitoring Asset maintenance Asset management



Freemelt is your dedicated partner, taking full ownership through the product lifecycle!

About Freemelt

A Swedish company founded 2017 with extensive knowledge, experience, and patents within Electron Beam Powder Bed Fusion (E-PBF).

Freemelt offers a complete product and service offering, supporting customers from early material process development through application and product development followed by a seamless transition to industrial serial production. In addition, Freemelt offers a partnership with a focus on productivity improvements for the customer. Freemelt's industrial 3D printers offer increased productivity with optimized TCO (Total Cost of Ownership).

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