



For efficient product development



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For your development

needs

Collaboration - Innovation - Transformation

Freemelt's cutting-edge 3D printer e⁻MELT[®]-iD is based on Freemelt's proven innovative core technology built on open source principles. e⁻MELT[®]-iD is tailored for efficient application development and initial production.

What sets e-MELT®-iD apart is true transferability of products and processes to e-MELT®-iM. This allows users to certify and qualify parts before scaling up production volumes.

Freemelt is your dedicated partner offering a comprehensive product and service portfolio supporting industrial customers from the inception of a product idea to serial production.



Technical data e-MELT® -iD

Beam power Variable 0-6 kW

Beam acceleration voltage 60 kV

Build envelope 90 100 x H 325 mm

Process vacuum level 10-5 hPa (mbar)

Build sensorics 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

Features

Open source system

Full control of electron beam parameters Empowering creation of intellectual property

Superior electron gun

Maintained beam quality across full power range

Outstanding heat management

ProHeat® Preheating
Pixelmelt® Spotmelting
Build tank cooling

Product development and initial production

Unmatched process design freedom
On-line layer-wise build process monitoring
Seamless transfer to e-MELT®-iM
Fleet management

Maintenance

Asset condition monitoring Asset maintenance



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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