



GE Additive

THIS IS US

Arcam, a GE Additive company, represents a new dimension in manufacturing and offers a unique work environment. The world is our workplace and our job is to position EBM® as the most productive metal AM technology.

We are an innovative, informal company with a high pace of work. There is strong specialization, with high-level skills in areas such as metallurgy, mechanical engineering, electronics, programming and production engineering.

Our employees, with their skills, values and conduct are our greatest strength. Our culture and spirit are key success factors and we all share the same goal to continuously improve the productivity of the EBM® technology.

Today Arcam has installations throughout the world, predominantly used in aerospace and implant industries. The EBM technology is patent-protected worldwide.



HISTORY

Arcam's history began as a research project in the mid-1990s, based on the first patent that was granted in 1993. The initial development work was made in collaboration with Chalmers University of Technology in Gothenburg. In 1997 Arcam AB was founded and the company continued to further develop and commercialize the fundamental idea behind the patent.

In 2007 Arcam passed a very important milestone for the orthopedic implant industry. Adler Ortho Group, the Italian manufacturer of orthopedic implants, launched the CE-certified hip implant

on the European market. Arcam also strengthened its position in the US market and received new customers such as Boeing, NASA, Airbus and the Royal College of Art, London.

Between 2009–2012 volumes increased and Arcam launched systems designed for industrial production in the implant and aerospace sectors.

Arcam joined GE Additive in 2017 to further strengthen the additive offering with the unique Electron Beam Melting (EBM) technology, for volume production of metal components.

THE METHOD

At the core of Arcam's business is the proprietary EBM®-technology (Electron Beam Melting) which enables the cost-effective manufacture of complex products with advanced functionality. The component to be manufactured is created in a three-dimensional digital CAD design, which is transferred to the machine's control computer. The build chamber is loaded with metal powder and a vacuum is established. The electron beam melts the metal powder with very high energy and the part is gradually constructed by a thin layer of powder being added to the part. The process is called Additive Manufacturing (AM).



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