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40 YEARS OF 30 PRINTING



THE FIRST CONCEPT OF 3D PRINTING

The first documented idea of layer-by-layer fabrication was introduced by Dr. Hideo Kodama in Japan. It becomes the blueprint for modern additive manufacturing. His work sparks the race to develop real machines capable of automated fabrication.

THE BIRTH OF SLA

1984

Chuck Hull invents stereolithography (SLA), the first technology capable of turning digital files into solid objects with UV-curable resin. This milestone marks the official birth of 3D printing as we know it. It becomes the foundation for making highly-detailed prototypes used in industry and research.

1989

THE BIRTH OF FDM AND SLS

Scott Crump patents Fused Deposition Modeling (FDM), enabling the growth of rapid prototyping. At the same time, Selective Laser Sintering (SLS) emerges, a powder-based process capable of creating strong and complex industrial parts without tooling.

EOS PRINTS A METAL PART THROUGH DMLS

Metal components are produced directly from digital files without molds. This unlocks new possibilities for lightweight aerospace and medical applications.

SANDIA NATIONAL LABORATORY INVENTS DED TECHNIQUE

1995

Engineers develop a process that can both manufacture and repair large metal structures. It is adopted by industries that need to rapidly restore high-value components, like turbines.

1997

ARCAM BRINGS THE FIRST EBM MACHINE TO THE MARKET

A new way to print dense metal parts using an electron beam is introduced to the commercial market. It becomes especially valuable for producing customized titanium implants and aerospace components.

Source: CNN 2000 - 2010s DEMOCRATIZATION AND FIRST MILESTONES

Z CORPORATION INTRODUCES FULL-COLOR 3D PRINTING

Z Corp releases the Z402C, and later the ZPrinter 310, pioneering affordable full-color 3D prints using binder jetting technology.

THE FIRST FUNCTIONAL MINIATURE KIDNEY IS 3D PRINTED

2002

Researchers at the Wake Forest Institute create a lab-made kidney that can filter blood and produce urine, leading to hope that 3D printing could one day address organ shortages.

2005

DR. ADRIAN BOWYER DEVELOPS THE REPRAP MOVEMENT

RepRap is a community-driven, open-source initiative that makes it possible to build a printer that can reproduce many of its own parts. It ignites the maker movement and accelerates the global spread of desktop 3D printing.



THE FIRST 3D PRINTED PLANE, READY TO FLY

A research team uses AM to build an unmanned aircraft that is ready for flight. It demonstrates that complex structures can be assembled without traditional tooling or assembly.

THE FIRST 3D PRINTER SENT IN SPACE

2014

Made in Space creates the Zero-G, a compact printer, and it is sent to the International Space Station. This enables astronauts to produce tools and spare parts on demand, reducing dependency on deliveries from Earth.

2018

3D PRINTED HOUSE FOR THE FIRST TIME IN FRANCE

A 95m² house in France becomes the first fully habitable example of large-scale printed construction. It demonstrates faster and more affordable building methods that could help address housing crises.

next

Source: mesago

times & mare

2020 - 2025 MATURITY OF AM

BMW OPENS ITS AM CAMPUS IN GERMANY

The facility integrates around 50 industrial systems for processing metal and plastics. Additive manufacturing in the automotive sector is no longer used for experimentation but for real serial output.

3D PRINTED VEGAN SALMON IS AVAILABLE IN SUPERMARKETS

2025

The Austrian startup Revo Foods launches plant-based salmon produced with food extrusion technology. Additive manufacturing enters mainstream food retail as a sustainable alternative to seafood.

2025 FORMNEXT, CELEBRATES ITS 10TH ANNIVERSARY.

The world's leading AM trade show marks a decade of industry growth and global collaboration. Its tenth edition highlights the maturity of the market, with industrial applications and case studies.