MCAE means 3D

Ing. Daniel Adam

MCAE

www.mcae.cz

MakerBot
INDUSTRIES

Stratasys
FOR A 3D WORLD™

MCAE


MakerBot
INDUSTRIES

Stratasys INC.

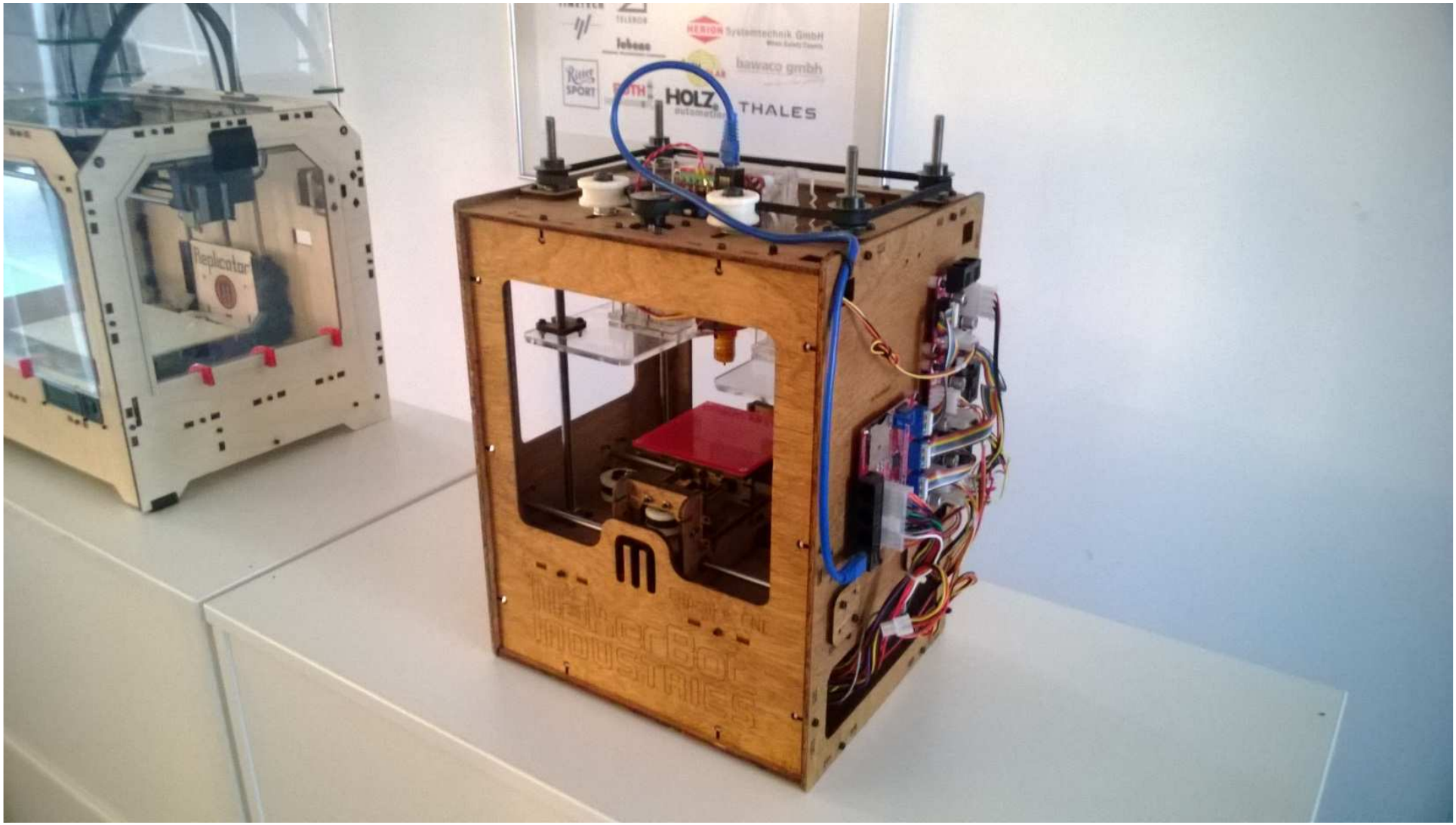
1989

FDM technologie 3D tisku

MakerBot INDUSTRIES

2009

MakerBot


Replicator
HERION Systemtechnik GmbH
bawaco gmbh
HOLZ
THALES

44 000+

Nejprodávanější 3D tiskárna na světě

Stratasys
FOR A 3D WORLD™

MakerBot
INDUSTRIES

2013

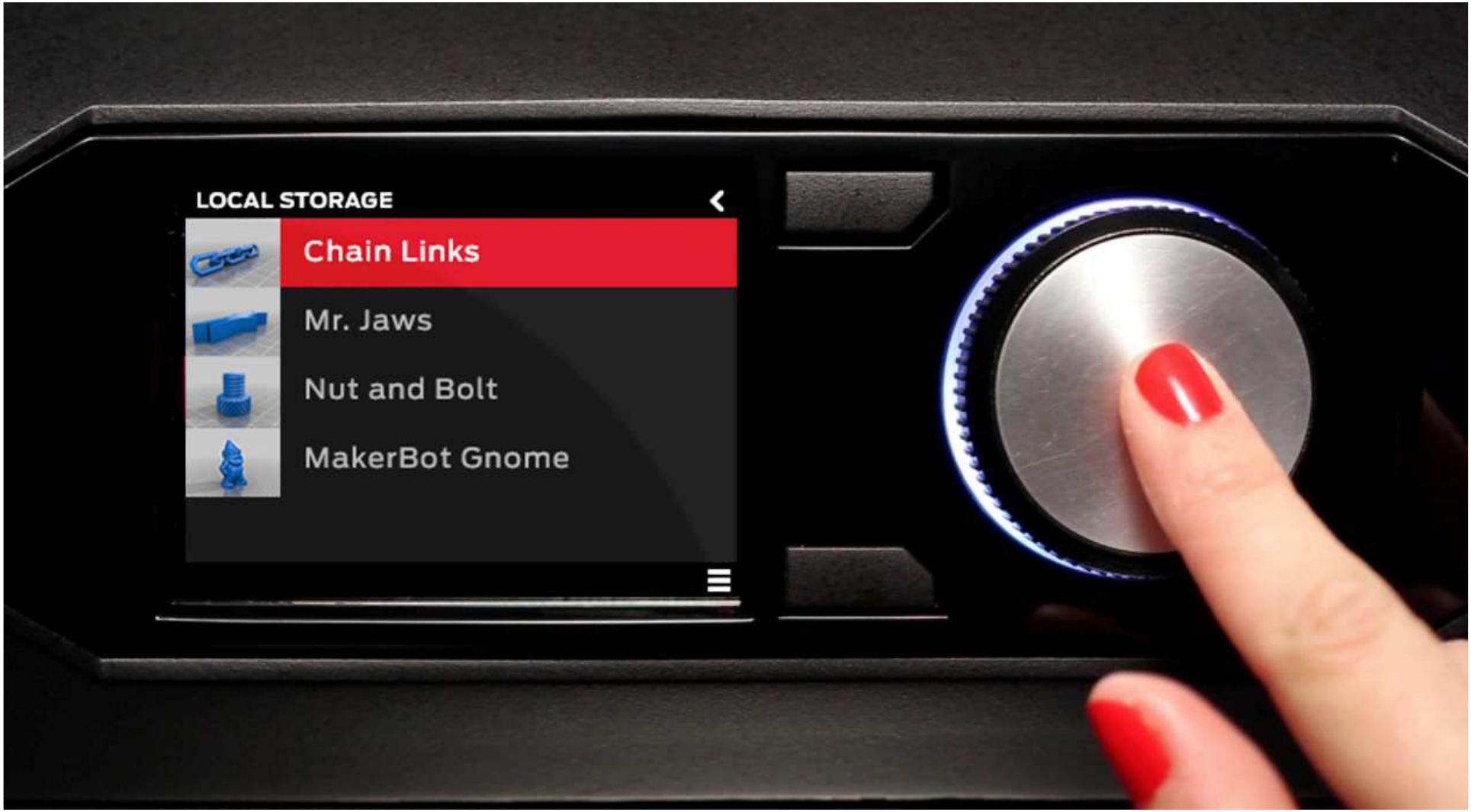
2014

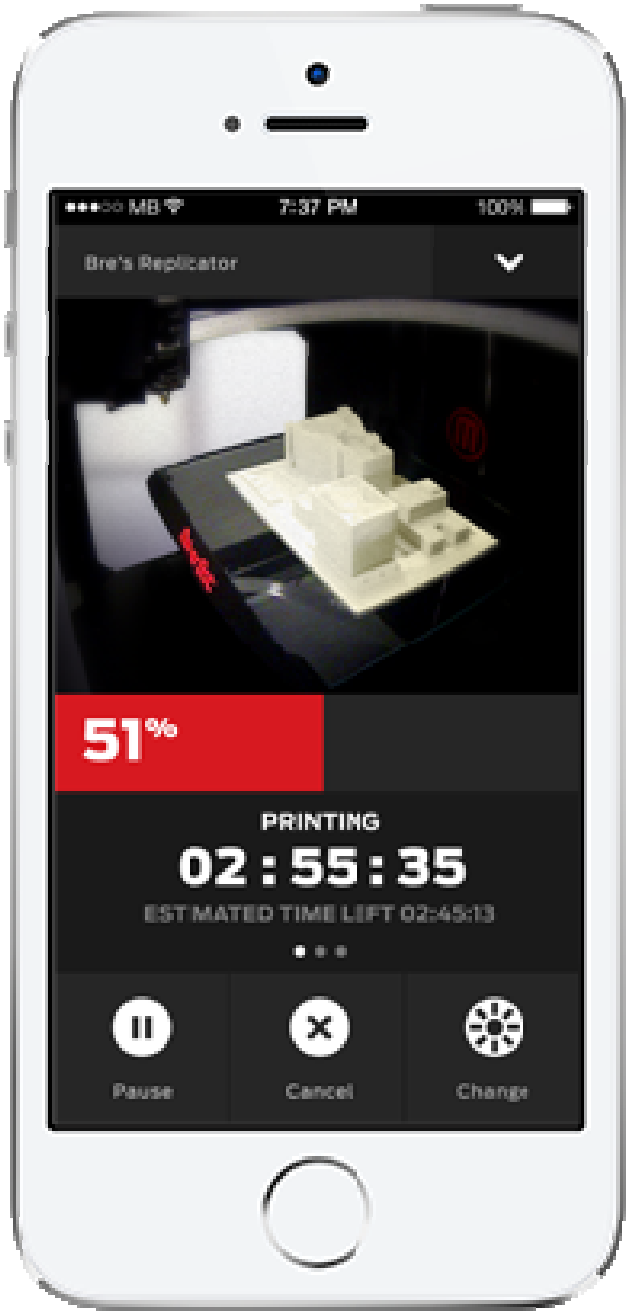
Nová generace 3D tiskáren MakerBot

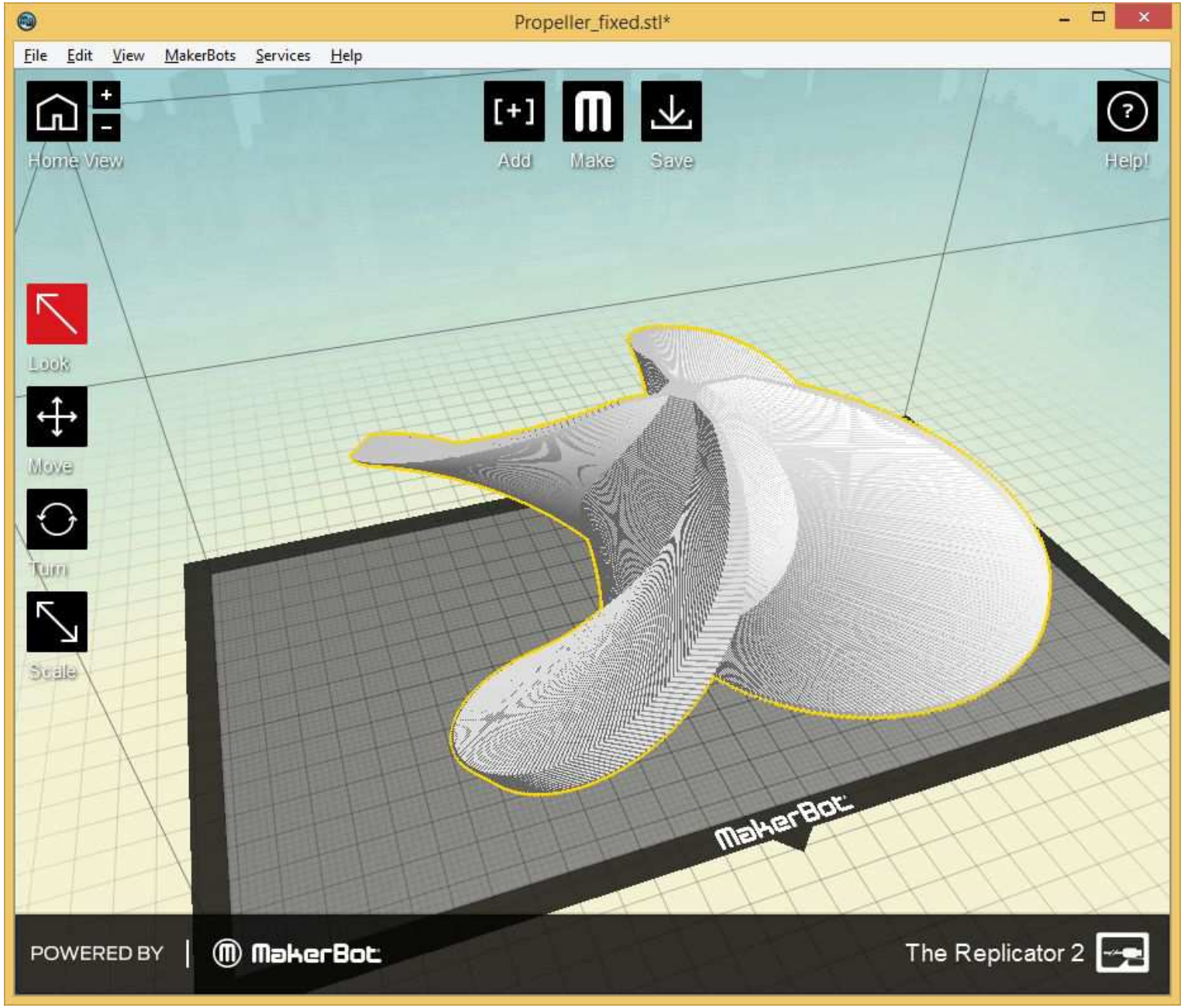

MakerBot
MakerBot Replicator Mini
COMPACT 3D PRINTER

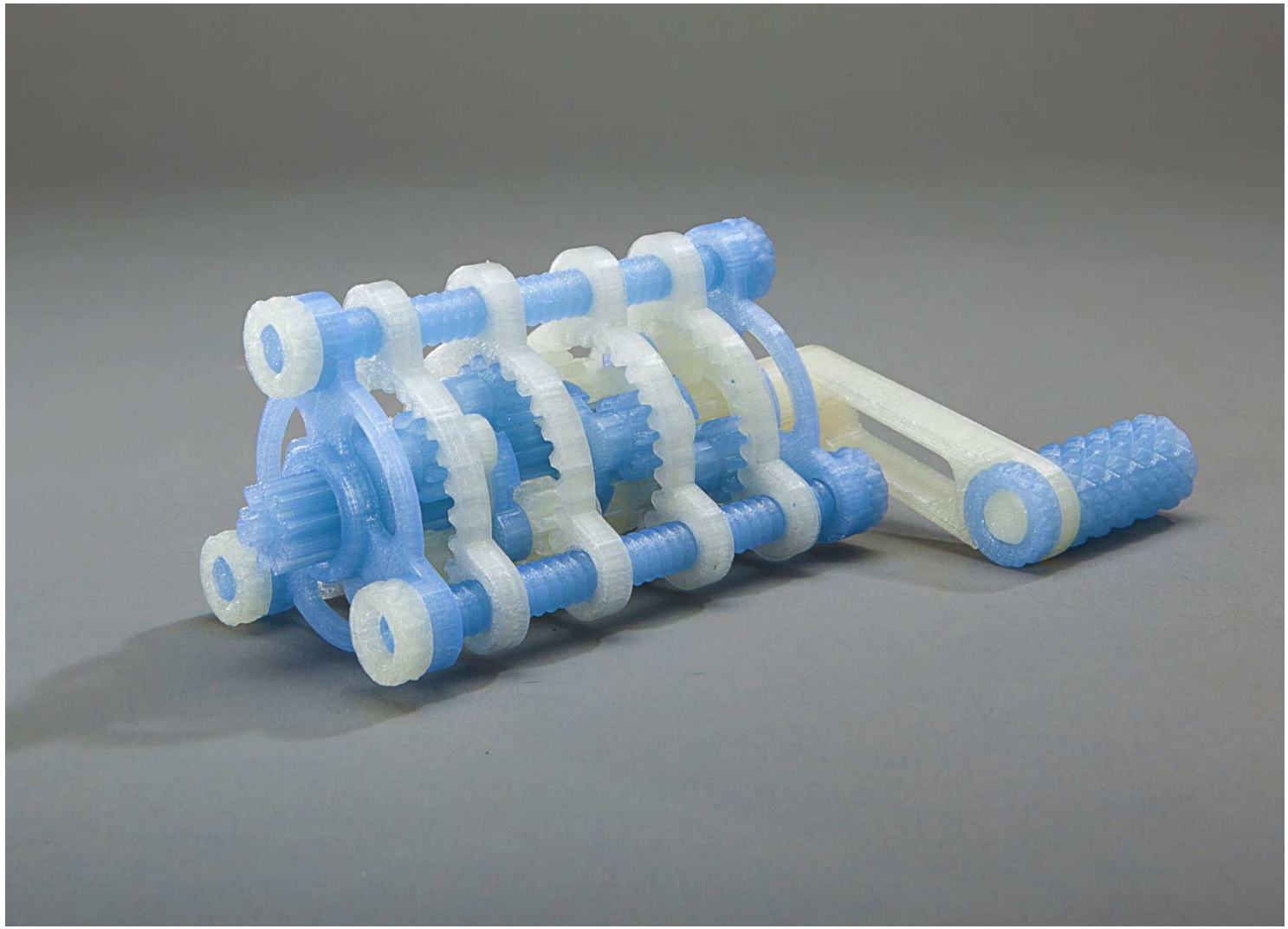

MakerBot
MakerBot Replicator
DESKTOP 3D PRINTER


MakerBot Replicator Z18


LOCAL STORAGE
Chain Links
Mr. Jaws
Nut and Bolt
MakerBot Gnome


7:37 PM
100%
Bre's Replicator
51%
PRINTING
02 : 55 : 35
EST MATED TIME LEFT 02:45:13
Pause
Cancel
Change


Propeller_fixed.stl*
File
Edit
View
MakerBots
Services
Help
Home View
Add
Make
Save
Help!
Look
Move
Turn
Scale
MakerBot
POWERED BY
MakerBot
The Replicator 2




Stratasys
FOR A 3D WORLD™

Technology

Learn about the world's most advanced 3D printing technologies: Fused Deposition Modeling (FDM) for durable thermoplastic parts that withstand tough testing; and PolyJet, for precise models that look and feel like the final product.

PolyJet Technology
Fine features and realistic textures

FDM Technology
Real thermoplastics for functional testing

Stratasys
FOR A 3D WORLD™

3D Printers | Materials | Applications | Industries | Resources | Customer Support

Idea Series
- Mojo
- uPrint SE
- uPrint SE Plus

Design Series

Precision
- Objet24
- Objet30 Pro
- Objet Eden260V
- Objet Eden350V
- Objet Eden500V
- Objet260 Connex
- Objet350 Connex
- Objet500 Connex
- Objet1000

Performance
- Dimension 1200es
- Dimension Elite

Production Series
- Fortus 250mc
- Fortus 360mc
- Fortus 400mc
- Fortus 900mc

Technology
- FDM Technology
- PolyJet Technology

Idea Series

Design Series

Production Series

Materials

Explore the widest range of materials in the 3D printing world

Stratasys offers a powerful range of additive manufacturing materials, including clear, rubberlike and biocompatible photopolymers, and tough high-performance thermoplastics. This variety lets you maximize the benefits of 3D printing throughout your product-development cycle.

From fast, affordable concept modeling to detailed, super-realistic functional prototyping, through certification testing and into agile, low-risk production, Stratasys materials help designers and engineers succeed at every stage.

Materials

FDM Thermoplastics

Stratasys patented Fused Deposition Modeling (FDM) Technology works with production-grade thermoplastics to build tough, durable parts that are accurate, repeatable and stable over time. 3D print your concept models, prototypes, tools and end-use parts in familiar materials like ABS, PC and high-performance ULTEM 9085.

View all FDM thermoplastics ▸

PolyJet Photopolymers

PolyJet photopolymers offer an astonishing level of detail and final-product realism that surpasses all other 3D printing technologies. With chameleon-like ability to simulate clear, flexible and rigid materials and engineering plastics — and even combine multiple material properties into one model — your prototypes could easily be mistaken for final products.

View all PolyJet photopolymers ▸

FDM Thermoplastics

3D print durable parts in production-grade materials

FDM Technology builds parts in the same strong, stable plastics used in injection molding, CNC machining and other traditional manufacturing processes. Harness the power of 3D printing while relying on tested, established thermoplastics.

Compare all FDM materials

Find your FDM thermoplastic

Subject 3D printed parts to tight tolerances, tough testing and harsh environments. FDM fixtures, tools and prototypes withstand constant use on the production floor and perform well in punishing applications such as HVAC prototyping and auto racing.

FDM materials offer specialized properties like electrostatic dissipation, translucence, biocompatibility, VO flammability and FST ratings, making them perfect for demanding designers and engineers in the aerospace, automotive and medical industries.

ABS*plus*
Opaque standard plastic in 9 colors

ABSi
Translucent standard plastic in 3 colors

ABS-M30
Opaque standard plastic in 6 colors

ABS-M30i
Biocompatible, sterilizable engineering plastic

ABS-ESD7
Static dissipative standard plastic

PC
Strong engineering plastic in white

PC-ABS
High-impact engineering plastic in black

PC-ISO
Stronger biocompatible, sterilizable engineering plastic

PPSF/PPSU
Sterilizable, strong high-performance plastic

ULTEM 9085
FST-rated high-performance plastic

Auto Prototyping in ULTEM

Watch Minimizer test its tough-as-nails heavy truck fenders in black ULTEM 9085.

See the video

PolyJet Materials

3D print precision prototypes in over 100 materials

PolyJet technology 3D prints in the widest variety of materials, so you can create realistic prototypes that closely resemble finished products.

Models are precisely printed in layers as fine as 16 microns for smooth surfaces and complex geometries. Material properties range from rubber to rigid, transparent to opaque, and standard to biocompatible.

Compare all PolyJet materials

Find Your PolyJet Material

PolyJet photopolymers combine a wide variety of material properties with thin layers, so you can create true product realism in your prototypes. Objet 3D Printers are the only additive manufacturing systems in the world than give you multi-material flexibility. You can combine materials within the same 3D printed model or in the same print job, enabling a wealth of applications such as over-molding, grayscale coloring, simultaneous prints in different materials and more. You can also combine two materials during printing to create composite Digital Materials with very specific properties.

With more than 100 material combinations to choose from, you can simulate precise characteristics so your prototypes match the look, feel and function of the most complex end products.

PolyJet Digital Materials

Digital ABS
Simulate high-strength and temperature-resistant plastics

High-temperature
Combine thermal functionality with dimensional stability

Transparent
3D print clear models and prototypes

Rigid Opaque
3D print in white, gray, blue and black

Polypropylene-like
3D print polypropylene-like models and prototypes

Rubber-like
3D print flexible materials with a variety of properties

Bio-compatible
3D print for medical and dental applications

Dental Material
3D print for dental and orthodontic applications

Related Information

- Download PolyJet Materials Brochure
- Download PolyJet Systems and Materials Matrix
- What is PolyJet Technology?

Digital Materials Video

See 3D printing in action with over 100 materials

Watch the video now

Industries

Learn why 3D printing is useful everywhere

Stratasys technology is challenging the status quo in manufacturing, health care, education — even outer space.

Learn how PolyJet 3D printing and FDM Technology can help you think faster, innovate better and broaden horizons.

Industries

Find your industry

Aerospace
Wind tunnel models to end-use parts

Architecture
Beautiful and durable models

Automotive
Tough parts, precision prototyping

Commercial Products

Consumer Products

Defense
Quick custom tooling, low-volume parts

Digital Dentistry
Digital dentistry for happier patients

Education
Hands-on learning, custom research tools

Medical
Surgical guides, prototypes, custom devices

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MCAE

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