

MAKERBOT® REPLICATOR® DESKTOP 3D PRINTER

GIVE YOUR STUDENTS A VERSATILE TOOL FOR MAKING HIGH-QUALITY 3D PRINTS
WHILE PREPARING THEM WITH SKILLS FOR JOBS OF THE FUTURE.



MAKERBOT.COM/REPLICATOR

3D PRINTING IN THE CLASSROOM: THE FUTURE IS NOW

Join the growing number of K-12 schools bringing project-based learning to life with hands-on 3D printing projects and teaching problem solving through design.



- **High School:** Students at Newton High School in Newton, NJ collaborated to prototype a better locker-opening mechanism for a disabled fellow student.



- **Middle School:** Students at MacArthur Barr Middle School in Nanuet, NY engineered and 3D printed faster wheels for a CO2-powered model car race.



- **Elementary School:** Fourth graders at the Léman Manhattan Lower School in New York, NY designed, 3D printed, and tested experimental boats to learn about flotation principles.

WHY CHOOSE MAKERBOT 3D PRINTERS?

MakerBot provides a unique 3D Printing Ecosystem that goes beyond hardware to allow beginners and experts alike to immediately leverage the best of 3D printing.

- **MakerBot PLA Filament:** Classroom-safe, available in 30+ colors and special properties, and rigorously tested to perform on our printers.
- **MakerBot Smart Extruder:** Swappable technology allows for quick maintenance and compatibility with future filament innovations.
- **MakerBot Desktop and PrintShop™:** Free software for discovering, creating, and managing 3D printable files.
- **MakerBot Learning:** Empower your team to leverage 3D printing with personalized, hands-on professional development courses taught by 3D printing experts.
- **Thingiverse.com:** Free downloadable and printable 3D files that anyone can use to get started with 3D printing right away.

FAQs

How much filament will I use?

- Typical customers use approximately 10 large spools per year (moderate use)
- Annual materials cost of between \$300 and \$600
- One large spool produces approximately 80 iPhone cases

What software do I need to 3D print?

- MakerBot 3D Printers work with almost all 3D design software programs!
- Popular programs include: Autodesk Inventor (free), Autodesk 123D (free), Tinkercad (free), SketchUp (free), SOLIDWORKS, Adobe Photoshop CC
- 3-step process: Start with a 3D file » Slice it in MakerBot Desktop » Print!

What support and service is available?

- All MakerBot 3D Printers come with standard six-month hardware warranty
- Additional MakerBot MakerCare® Protection Plans are available that include phone, email, and live-chat support plus replacement of parts and up to 2 Smart Extruders per year.

PRINTING

PRINT TECHNOLOGY
Fused Deposition Modeling

BUILD VOLUME
25.2 W x 19.9 D x 15.0 H cm
[9.9 W x 7.8 D x 5.9 H in]
7,522 cubic centimeters
[456 cubic inches]

LAYER RESOLUTION
100 microns [0.0039 in]

FILAMENT DIAMETER
1.75 mm [0.069 in]

FILAMENT COMPATIBILITY
MakerBot PLA Filament
(small or large spool)

BUILD PLATE
Glass

SIZE & WEIGHT

PRODUCT DIMENSIONS
52.8 W x 44.1 D x 41.0 H cm
[20.8 W x 17.4 D x 16.2 H in]

PRODUCT WEIGHT
16 kg [35.5 lbs]

ELECTRICAL

POWER REQUIREMENTS
100–240V, 50–60HZ, 0.76–0.43A, 100W

SOFTWARE

FILE TYPES
STL | OBJ | THING | MAKERBOT

OPERATING SYSTEMS
Windows (7+)
Mac OS X (10.7+)
Linux (Ubuntu, Fedora)

CONNECTIVITY
USB
Wi-Fi, Ethernet

CAMERA
Camera Resolution: 320 x 240 pixels