MAKERBOT® REPLICATOR® Z18 3D PRINTER

GIVE YOUR STUDENTS A TOOL TO THINK BIGGER, BUILD BIGGER,
AND MAKE EXTRA-TALL MODELS ON OUR BIGGEST 3D PRINTER.

MAKERBOT.COM/Z18

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 15 large spools per year (moderate use)
- Annual materials cost of between $400 and $700
- 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.

SPECIFICATIONS

PRINTING

PRINT TECHNOLOGY
Fused Deposition Modeling

BUILD VOLUME
30.5 W x 30.0 D x 45.7 H cm
[12.0 W x 11.8 D x 18.0 H in]
41,770 cubic centimeters [2,549 cubic inches]

LAY ER RESOLUTION
100 microns [0.0039 in]

FILAMENT DIAMETER
1.75 mm [0.069 in]

FILAMENT COMPATIBILITY
MakerBot PLA Filament
Small Spool: 0.22 kg [0.50 lbs.]
Large Spool: 0.90 kg [2.0 lbs.]
XL Spool: 2.26 kg [5.0 lbs.]*
XXL Spool: 4.53 kg [10.0 lbs.]*
*Requires MakerBot Filament Case

BUILD PLATE
Injection-molded PC-ABS

PRINT CHAMBER
Enclosed and heated build chamber

SIZE & WEIGHT

PRODUCT DIMENSIONS
49.3 L x 56.5 W x 85.4 H cm
[19.4 L x 22.2 W x 33.6 H in]

PRODUCT WEIGHT
41 kg [90 lbs]

ELECTRICAL

POWER REQUIREMENTS
100-240 V; 5.4-2.2 A; 50/60 HZ; 350 W

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