

Dremel Digilab 3D45 Printer

Key Benefits

- **Advanced:** Print in 50 micron layers with nylon, eco-ABS, and more
- **Reliable:** Tested to run for 100's of hours with clog-resistant extruder
- **Supported:** 1-year warranty with lifetime Dremel customer support

Feature Overview

- Precise Output: 50-micron resolution & temperature-controlled chamber
- Filament Auto-Recognition: Automatically changes temperature settings
- HD Camera: Remotely manage 3D45s & capture time-lapse videos
- Perfect for Makerspaces: Easily network & stack 4 units to 6 ft tall
- Carbon Filters: Protect yourself against harmful VOCs

Tech Specs

GENERAL INFORMATION

Printing Technology

- Fused Deposition Modeling

Extruder

- All-Metal Hot End
- Direct Drive
- Single Extruder

Build Volume

- 10 x 6 x 6.7in
- 402 cubic inches

Z-Layer Resolution

- 50-300 microns

Materials

- Nylon
- Eco-ABS
- PLA

Filament Diameter

- 1.75mm (0.069 in)

Nozzle Diameter

- 0.4mm (0.014 in)

Print File Type

- .G3DREM
- .gcode

Internal Storage

- 8GB

Operating Interface

- 5" full color IPS touch screen

Build Platform Leveling

- Semi-automated Leveling

SOFTWARE

Software Bundle

- Dremel DigiLab 3D Slicer - Based on Cura (Desktop); Included
- Dremel Print Cloud - Based on 3DPrinterOS (Web-Based); Included
- Simplify3D Software- Compatible; Sold Separately

File Types

- STL
- OBJ

Windows Requirements

- Windows (7, 8, 8.1, 10)

MAC OS X Requirements

- Mac OS X (v10.9+)

TEMPERATURE

Extruder Maximum Temperature

- 280°C

Build Platform Maximum Temperature

- 100°C

Operating Temperature

- 16-29°C

ELECTRICAL

Input Rating

- 100-240V, 47-60Hz, 0.85-2.3Amps

Connectivity

- Wifi, USB, Ethernet

WEIGHT AND DIMENSIONS

Weight

- 21.5kg (47.5lb)

Dimensions

- 20.25 x 16 x 15.9 in

WARRANTY

- One year warranty

3D Printer Filament

Key Benefits

- Nylon: Used For Practical Applications Due to Higher Strength and Durability
- Eco-ABS: Similar Mechanical Properties to ABS Without the Harmful VOCs
- PLA: Tested for Hours to Run Flawlessly on Dremel 3D Printers

Feature Overview

- Purple Orchid
 - Electric Orange
 - Deep Black
 - Dremel Blue
 - Silver Spoon
 - Gold Medal
 - Racecar Red
 - Cotton White
 - Passion Pink
 - Natural White Translucent
 - Grass Green
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Tech Specs

GENERAL INFORMATION

How many prints can you get with every spool?*

- 36 small model OR 14 medium models OR 3 large models
- **Print amounts are approximate and based on moderate fill. Your print amounts may vary based on quality and fill settings for each model.*

Material - Color

- Nylon - Deep Black | Model #DF45-NYP-B
- Eco-ABS - Deep Black | Model #DF45-ECO-B
- PLA - Grass Green | Model #DF07-01
- PLA - Dremel Blue | Model #DF06-01
- PLA - Gold Medal | Model #DF51-01
- PLA - Electric Orange | Model #DF04-01
- PLA - Cotton White | Model #DF01-01
- PLA - Deep Black | Model #DF02-01
- PLA - Racecar Red | Model #DF03-01
- PLA - Purple Orchid | Model #DF05-01
- PLA - Silver Spoon | Model #DF50-01
- PLA - Natural White Translucent | Model #DF70-01
- PLA - Passionate Pink

Item Diameter

- 1.75 millimeters