# (FDM/Filament printers:)

**Creality - Ender 3**

**Description**:

The Creality Ender 3 3D printer is an ideal printer for new and experienced 3D printing enthusiasts. The Ender 3 is semi-assembled, so you can assemble it quickly and get printing. The Creality Ender 3 3D printer has the following features:

* Stable all-metal body
* Hotbed reaches its maximum temperature in 5 minutes
* Power-recovery mode allows you to resume printing after an unexpected power loss

**Specifications**:

**Technology**: FDM

**Printing size**: 220x220x250mm

**Filament types**: PLA, ABS, TPU, PETG

**Maximum printing speed**: 180mm/s

**Layer thickness**: ??

**Maximum bed temperature**: 110°C

**Maximum nozzle temperature**: 240°C

**Extruder**: Bowden

**Build plate**: BuildTak-style sticker

**Slicer software**: Cura, Repetier-Host, simplify3D

**Creality - Ender 3 Pro**

**Description**:

The Creality Ender 3 Pro 3D printer is an excellent printer for hobbyists and makers. The Ender 3 Pro is semi-assembled, so you can assemble it quickly and get printing. The Creality Ender 3 Pro 3D printer has the following features:

* Magnetic build plate
* Improved bearing wheels to reduce friction and create more stability
* Power-recovery mode allows you to resume printing after an unexpected power loss

**Specifications**:

**Technology**: FDM

**Printing size**: 220x220x250mm

**Filament types**: PLA, ABS, TPU, PETG

**Maximum printing speed**: 180mm/s

**Layer thickness**: ??

**Maximum bed temperature**: 110°C

**Maximum nozzle temperature**: 240°C

**Extruder**: Bowden

**Build plate**: “CMAG” magnetic plate

**Slicer software**: Cura, Repetier-Host, simplify3D

**Creality - Ender 3 V2**

**Description**:

The Creality Ender 3 V2 3D printer is an excellent printer for hobbyists and makers. The Ender 3 V2 is semi-assembled, so you can assemble it quickly and get printing. The Creality Ender 3 V2 3D printer has the following features:

* Silent mainboard for quieter printing
* High print quality
* Power-recovery mode allows you to resume printing after an unexpected power loss

**Specifications**:

**Technology**: FDM

**Printing size**: 220x220x250mm

**Filament types**: PLA, ABS, TPU, PETG

**Maximum printing speed**: 180mm/s

**Layer thickness**: 0.1-0.4mm

**Maximum bed temperature**: 110°C

**Maximum nozzle temperature**: 260°C

**Extruder**: Bowden

**Build plate**: Carborundum glass

**Slicer software**: Cura, simplify3D

**Creality - Ender 3 S1**

**Description**:

The Creality Ender 3 S1 3D printer is an excellent printer for experienced makers. The Ender 3 S1 is semi-assembled, so you can assemble it quickly and get printing. The Creality Ender 3 S1 3D printer has the following features:

* Silent mainboard for quieter printing
* Automatic bed leveling
* New user interface for simple operation
* Power-recovery mode allows you to resume printing after an unexpected power loss

**Specifications**:

**Technology**: FDM

**Printing size**: 220x220x270mm

**Filament types**: PLA, ABS, TPU, PETG

**Maximum printing speed**: 150mm/s

**Layer thickness**: 0.05-0.4mm

**Maximum bed temperature**: 100°C

**Maximum nozzle temperature**: 260°C

**Extruder**: “Sprite” dual-gear direct extruder

**Build plate**: PC spring steel magnetic build plate

**Slicer software**: Cura

# (SLA/Resin Printers:)

**ELEGOO - Mars 2 Mono**

**Description**:

The ELEGOO Mars 2 Mono 3D printer is an ideal printer for new and experienced 3D printing enthusiasts. The Mars 2 Mono is a resin printer that’s easy to use and has high printing accuracy. The ELEGOO Mars 2 Mono 3D printer has the following features:

* Long-lasting 2K mono LCD screen
* Sturdy aluminum body
* Replaceablele resin tank

**Specifications**:

**Technology**: UV Photocuring

**Printing size**: 129x80x150mm

**Maximum printing speed**: 50mm/h

**Layer thickness**: 0.01-0.2mm

**Slicer software**: ChituBox

**ELEGOO - Mars 3 MSLA**

**Description**:

The ELEGOO Mars 3 MSLA 3D printer is an ideal printer for hobbyists and makers. The Mars 3 MSLA is a resin printer that’s easy to use and has high printing accuracy. The ELEGOO Mars 3 MSLA 3D printer has the following features:

* Long-lasting, high 4K resolution mono LCD screen
* Large build volume and build plate
* Quick, highly detailed printing

**Specifications**:

**Technology**: MLSA 3D Stereolithography

**Printing size**: 143.43x89.6x175mm

**Maximum printing speed**: 50mm/h

**Layer thickness**: 0.01-0.2mm

**Slicer software**: ChituBox

**ELEGOO - Saturn S Mono**

**Description**:

The ELEGOO Saturn S Mono 3D printer is an excellent printer for experienced hobbyists and makers. The Saturn S Mono is a resin printer that’s easy to use and has high printing accuracy. The ELEGOO Saturn S Mono 3D printer has the following features:

* Long-lasting, high 4K resolution mono LCD screen
* Shock absorption unit for stable and accurate printing
* Replaceable carbon filter to absorb resin fumes

**Specifications**:

**Technology**: LED Display Photocuring

**Printing** **size**: 196x122x210mm

**Maximum** **printing** **speed**: 70mm/h

**Layer** **thickness**: 0.01-0.15mm

**Slicer** **software**: ChituBox

# (Resins; Source: https://www.amazon.de/-/en/Washable-Hardening-Standard-Photopolymer-Printing/dp/B081Z1XM8X/ )

**1000g Water Washable Resin - White**

**1000g Water Washable Resin - Ceramic Grey**

**1000g Water Washable Resin - Black**

**1000g Water Washable Resin - Smoky Black**

**1000g Water Washable Resin - Mint Green**

**1000g Water Washable Resin - Water Blue**

**1000g Water Washable Resin - Clear Green**

**1000g Water Washable Resin - Clear Red**

**1000g Water Washable Resin - Yellow**

**1000g Water Washable Resin – Beige**

**ELEGOO Water Washable Standard Photopolymer Resin**

ELEGOO Water Washable Resin is ideal for LCD 3D printers. This is a high-precision resin with fast curing times and low shrinkage. It is available in a wide range of vibrant colours.

**Difficulty Level**: Beginner-Intermediate

**Strength**: High

**Flexibility**: High

**Durability**: High

**Shrinkage/Warping**: Low

**Soluble**: Uncured resin is soluble in water

**Food safe**: No

**Perfect for**: Miniature objects with extra detail, like boardgame pieces; watertight applications; dental applications, like clear aligners and surgical guides

**Printing Details**

**Technology**: ideal for LCD, suitable for DLP

**Recommended setting**:

Bottom exposure: 60s

Normal exposure: 8s

**More Details**

**Pros**

* Produces very detailed objects
* Washable in water—no expensive or harmful cleaners required
* Fast curing time

**Cons**

* More expensive than filament
* Requires post-processing