



OUR EQUIPMENT GUIDE

MARKFORGED X7: STRENGTH, QUALITY, SIZE AND SURFACE FINISH

Technical Specifications

Build Size

12.99 x 10.63 x 7.87 (330mm X 250mm X 200mm) (X, Y, Z)

Plastic Materials

Onyx

Fiber Materials

Carbon Fiber

Fiberglass

Kevlar

HSHT Fiberglass (High-Strength High-Temperature Fiberglass)

Layer Resolution

Onyx: 50, 100, 200 Micron (.002" - .008")

Kevlar & Fiberglass: 100 Micron (.004")

Carbon Fiber: 125 Micron (.005")



MARK TWO

Technical Specifications

Build Size

320 mm x 132 mm x 154 mm

Plastic Materials

Onyx

Fiber Materials

Carbon Fiber

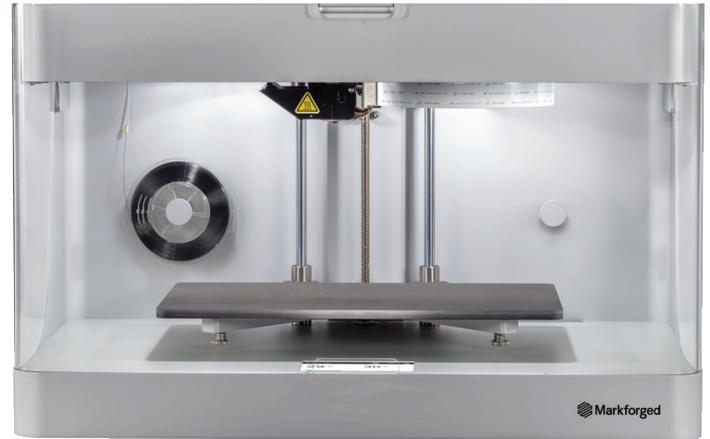
Fiberglass

Kevlar

HSHT Fiberglass (High-Strength High-Temperature Fiberglass)

Layer Resolution

100 micron



MARKFORGED MATERIALS OVERVIEW

Carbon Fiber

Carbon Fiber has the highest strength to weight ratio of our reinforcing fibers. Six times stronger and eighteen times stiffer than Onyx, Carbon Fiber reinforcement is commonly used for parts that replace machined aluminum.

Fiberglass

Fiberglass is the most cost-effective material. It's as strong as Carbon Fiber, but 40% as stiff, and 2x the weight.

HSHT Fiberglass

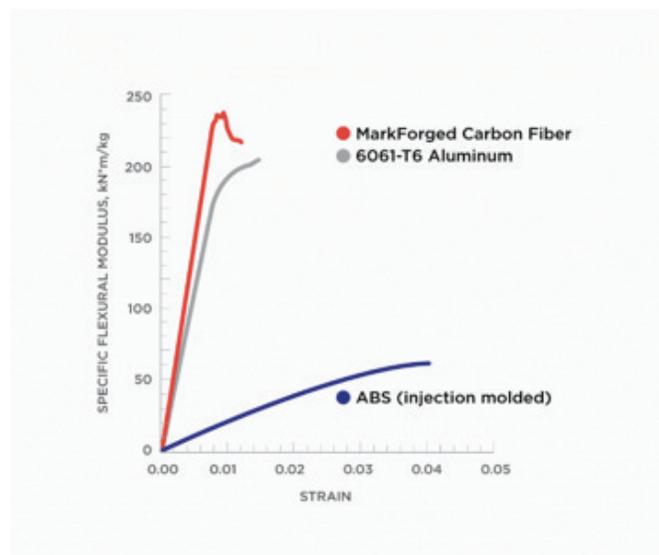
Five times as strong and seven times as stiff as fiberglass, High Strength High Temperature (HSHT) Fiberglass is best used for parts loaded in high operating temperatures.

Kevlar

Kevlar possesses excellent durability, making it optimal for parts that experience repeated and sudden loading. As stiff as fiberglass and much more ductile, it's best used for end of arm tooling.

Onyx

Onyx yields stiff, strong, and accurate parts. Already 1.4x stronger and stiffer than ABS, Onyx can be reinforced with any continuous fiber. Onyx sets the bar for surface finish, chemical resistivity, and heat tolerance.



STACKER S4 - INDUSTRIAL GRADE FOUR HEAD 3D PRINTER

Technical Specifications

Build Volume

MAX X/Y print area one print head printing:
355mm x 525mm (13.98" x 20.67")

MAX X/Y print area two heads printing:
355mm x 240mm (13.98" x 9.45")

MAX X/Y print area three heads printing:
355mm x 143.5mm (13.98" x 5.56")

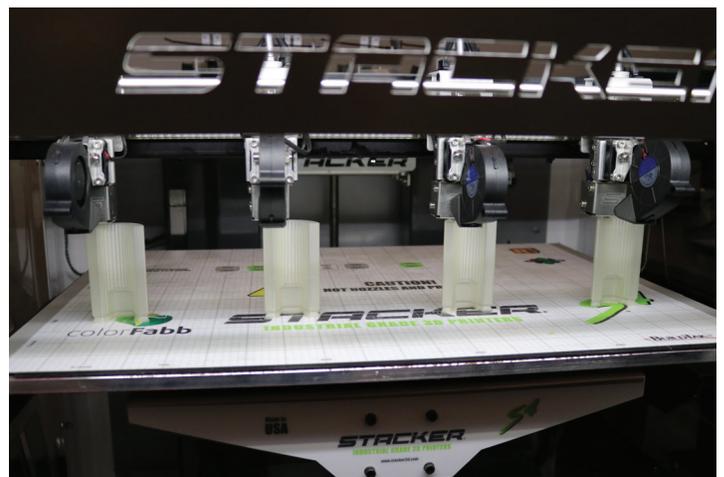
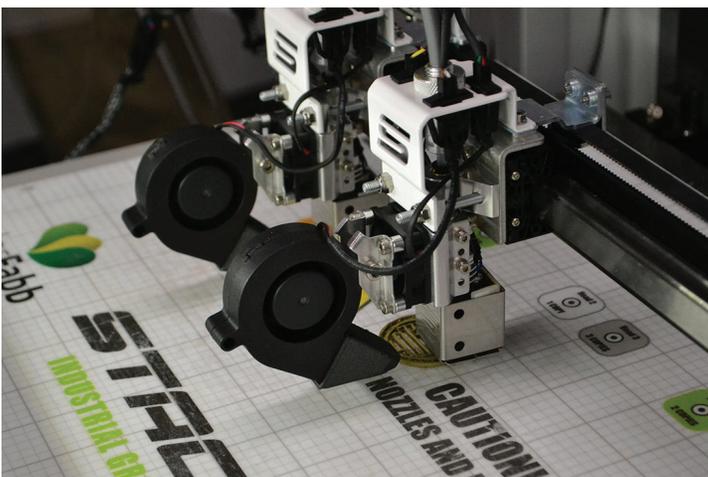
MAX X/Y print area four heads printing:
355mm x 143.5mm (13.98" x 3.78")

MAX Z height print area: 650mm (25.59")

Plastic Materials

PLA (Polylactic acid)

- Fast printing
- Ideal for concept models
- Good tensile strength



FORTUS 250MC PRINTER

Technical Specifications

Build Size

254mm x 305mm x 305mm (10"x10"x12")

Material

ABS-M30, ABSplus (acrylonitrile butadiene styrene)

- Versatile material: good for form, fit and functional applications
- Familiar production material for accurate prototyping
- Good tensile strength

Colors

Ivory, black, blue, dark grey, fluorescent yellow, nectarine, olive green, red, white, and custom colors

