

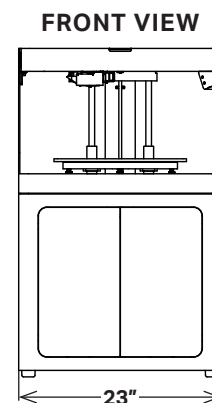
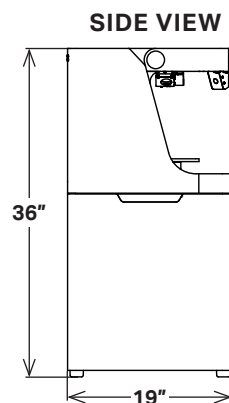


PRINTER SPECIFICATIONS

MARKFORGED X3

The X3 prints strictly engineering grade plastic parts. It leverages the incredible material qualities of Onyx - twice the strength and stiffness as standard printing plastics - with an advanced sensor suite to deliver unparalleled reliability. Parts meet tight tolerances with beautiful surface finish and are perfect for production line equipment.

PRINTER PROPERTIES	Process	Fused Filament Fabrication
	Build Volume	330 x 270 x 200 mm (13 x 10.6 x 7.9 in)
	Weight	46 kg (102 lbs)
	Machine Footprint	584 x 483 x 914 mm (23 x 19 x 36 in)
	Print Bed	Kinematic coupling - Flat to within 80 um
	Laser	Bed Leveling, Active Print Calibration
	Power	100-240VAC, 150W (2A peak)
	X5 Upgrade Capabilities	Fiberglass
	X7 Upgrade Capabilities	Laser In Process Inspection, Carbon Fiber, HSHT, and Kevlar
PART PROPERTIES	Layer Height	100um default, 50 um minimum
	Material Properties	UTS: 36 MPa (1.2x ABS); Flex Stiffness: 2.9 GPa (1.4x ABS)
	Infill	Closed Cell Infill: Multiple geometries available
SOFTWARE	Supplied Software	Markforged Software - Cloud Storage, Local Storage, or Fully On-Premise (\$5,000 added fee)
	Security	Two Factor Auth, Org Admin Access, Single Sign On
MATERIALS	Plastics Available	Onyx
	Fiber Available	None



All specifications approximate and subject to change without notice.

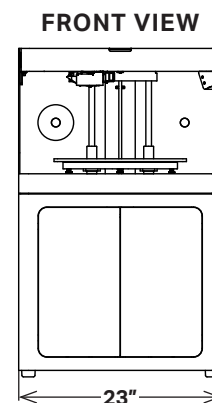
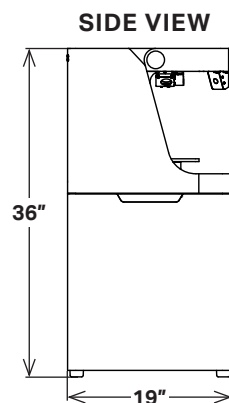


PRINTER SPECIFICATIONS

MARKFORGED X5

The X5 leverages fiberglass reinforced thermoplastic to create parts 10x as strong as standard printing plastics. Easily upgradable to the X7, the X5 is a laser assisted, durably built large format machine designed to reliably produce high strength parts in any environment at an affordable price point.

PRINTER PROPERTIES	Process	Continuous Fiber Reinforced Plastics
	Build Volume	330 x 270 x 200 mm (13 x 10.6 x 7.9 in)
	Weight	48 kg (106 lbs)
	Machine Footprint	584 x 483 x 914 mm (23 x 19 x 36 in)
	Print Bed	Kinematic coupling - Flat to within 80 um
	Laser	Bed Leveling, Active Print Calibration
	Power	100-240VAC, 150W (2A peak)
	X7 Upgrade Capabilities	Laser In Process Inspection, Carbon Fiber, HSHT, and Kevlar
PART PROPERTIES	Layer Height	100um default, 50 um minimum
	Ultimate Tensile Strength	590 MPa (19.0x ABS, 16.4x Onyx)
	Max Flexural Stiffness	22 GPa (10.7x ABS, 7.6x Onyx)
	Infill	Closed Cell Infill: Multiple geometries available
SOFTWARE	Supplied Software	Markforged Software - Cloud Storage, Local Storage, or Fully On-Premise (\$5,000 added fee)
	Security	Two Factor Auth, Org Admin Access, Single Sign On
MATERIALS	Plastics Available	Onyx
	Fiber Available	Fiberglass



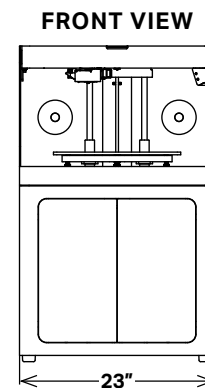
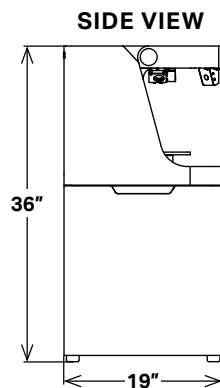
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PRINTER SPECIFICATIONS

MARKFORGED X7

The X7 prints industrial grade manufacturing jigs, jaws, tools and fixtures. Designed from the ground up to survive the production floor environment and capable of printing parts stronger than machined aluminum for a fraction of the cost, the X7 delivers unparalleled surface finish, build size, and reliability.

PRINTER PROPERTIES	Process	Continuous Fiber Reinforced Plastics
	Build Volume	330 x 270 x 200 mm (13 x 10.6 x 7.9 in)
	Weight	48 kg (106 lbs)
	Machine Footprint	584 x 483 x 914 mm (23 x 19 x 36 in)
	Print Bed	Flat to within 80 um - Kinematic coupling
	Laser	In Process Inspection, Active Print Calibration, Bed Level-ing
	Power	100-240VAC, 150W (2A peak)
PART PROPERTIES	Layer Height	100um default, 50um minimum
	Ultimate Tensile Strength	700 MPa (22.6x ABS, 19.4x Onyx)
	Max Flexural Stiffness	51 GPa (24.8x ABS, 17.6x Onyx)
	Infill	Closed Cell Infill: Multiple geometries available
SOFTWARE	Supplied Software	Markforged Eiger - Cloud Storage, Local Storage, or Fully On-Premise (\$5,000 added fee)
	Security	Two Factor Auth, Org Admin Access, Single Sign On
MATERIALS	Plastics Available	Onyx, Tough Nylon
	Fibers Available	Carbon Fiber, Fiberglass, Kevlar, High Strength/High Temp Fiberglass




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