



Onyx Pro

The power of Continuous Fiberglass
at your fingertips.

Leverage the power of Continuous Fiberglass reinforcement
to print parts 10x stronger than plastic.

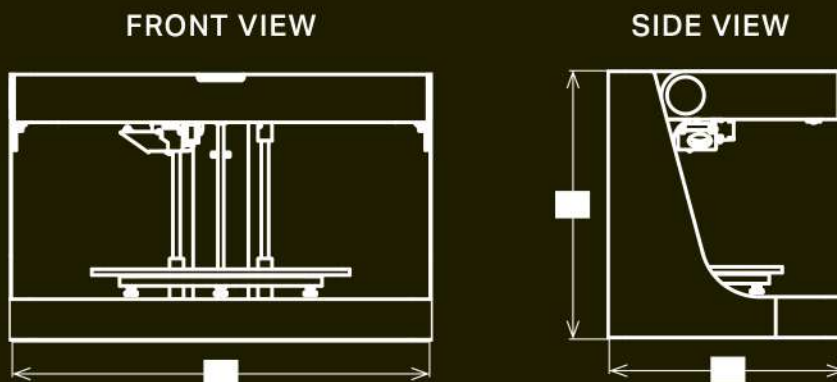


PRODUCT SPECIFICATIONS

Onyx Pro (No Wi-Fi)

The Onyx Pro features our unique continuous fiber reinforcement at an affordable price. Built on a durable chassis with precision components, the Onyx Pro prints fiberglass-reinforced thermoplastic parts that are 10x as strong as traditional printing plastics.

Printer Properties	Process	Fused Filament Fabrication, Continuous Filament Fabrication
	Build Volume	320 x 132 x 154 mm (12.6 x 5.2 x 6 in)
	Weight	16 kg (35 lbs)
	Machine Footprint	584 x 330 x 355 mm (23 x 13 x 14 in)
	Print Bed	Kinematic coupling — flat to within 160 μ m
	Extrusion System	Second-generation extruder, out-of-plastic detection
	Power	100–240 VAC, 150 W (2 A peak)
	Materials	
Materials	Plastics Available	Onyx
	Fibers Available	Fiberglass
	Tensile Strength	590 MPa (19.0x ABS, 1.9x 6061-T6 Aluminum) *
	Tensile Modulus	21 GPa (9.4x ABS, 0.3x 6061-T6 Aluminum) *
Part Properties	Layer Height	100 μ m default, 200 μ m maximum
	Infill	Closed cell infill: multiple geometries available
Software	Supplied Software	Eiger Cloud (Other options available at cost)
	Security	Two-factor authentication, org admin access, single sign-on



* Continuous fiberglass data. **Note:** All specifications are approximate and subject to change without notice.

Desktop Series

Stable printed components in every office.



The Markforged Desktop Series is designed to give any designer and engineer access to stable Onyx parts. Every component – whether hardware, software or print material – offers a unique 3D printing experience. Let yourself be inspired by the Desktop Series.

Determine the material and composition of your parts, and these unique 3D printers will turn your CAD data into perfect parts within hours.

EIGER Software*: Powerful. Flexible. Secure.

With Markforged's high strength and composite fibre printers, we deliver the innovative, smart EIGER software compatible with all our printers.

Powerful

The strength of Markforged printers is the stability of the part and the precise surface finish. EIGER software makes it easy to increase sub-stability with our unique Continuous Fibre Reinforcement. In addition, EIGER offers the possibility of accessing and managing all printers and print jobs with just one program.

Achieve 10-fold stability with just one click

EIGER adds selected fibre reinforcement to your component. Simply select the option "Use fibre". You retain full access to the process and can intervene at desired points and make manual adjustments.

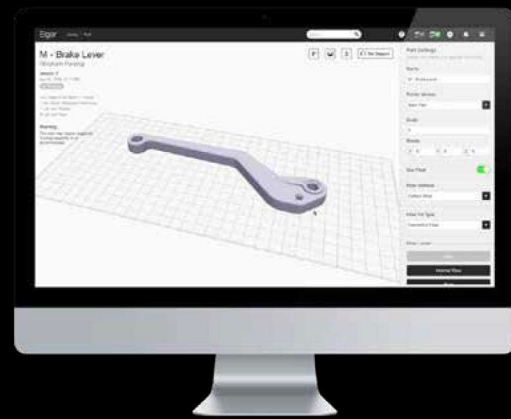
Continuous improvement

Cloud-based, EIGER always provides the latest version. Once a new update has been deployed, it will be displayed the next time you log in to EIGER. Large files can easily be processed in the background, while you can continue working in other programs.

Control all printers from one place

With EIGER you can easily access all your organization's printers and print files. Whether you use one or a hundred printers, our networked system collects all data clearly arranged in one place.

Each printer from Markforged can be connected via Ethernet or WiFi. Distances do not matter. You will receive important status messages by e-mail and, for example, be informed in good time about low material stocks and completed print jobs.



User-friendly

To print the most stable parts, you do not need any special training. Simply upload and slice your STL file into EIGER for a high strength part.

Data is never lost

Projects can be created in EIGER. There you can organize your print files, find them quickly and reuse or revise them. Since everything is stored in the cloud, your files will be kept in case of a computer crash. The version history can also be used to restore accidentally overwritten files.

Intuitive user interface

Our software regulates all temperature, speed and monitoring settings to optimize print performance and reduce the user's workload.

Collaboration

EIGER works organizationally. Each team member can get access to the program. This allows files to be shared, discussed, edited and improved with colleagues even across distances.

*The services described here refer to the Eiger Cloud Software.

Markforged takes the security and privacy of your data very seriously.



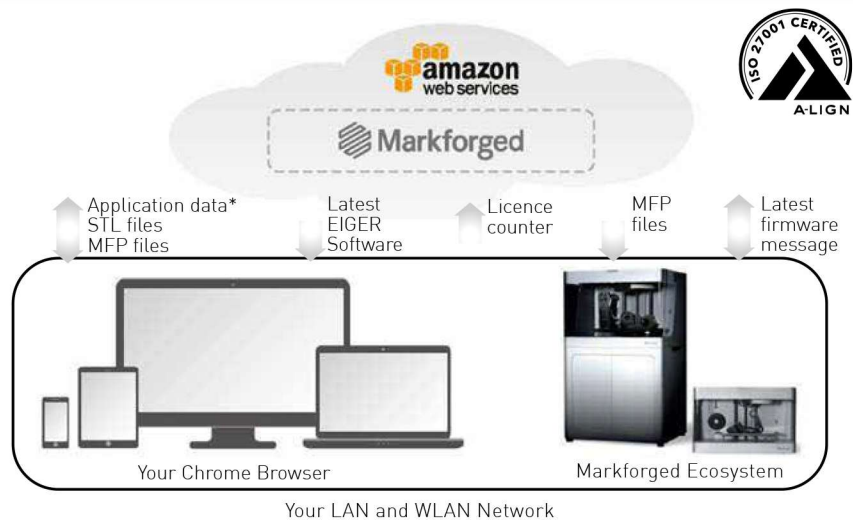
ISO 27001 – Safety certification

- Markforged is the only certified manufacturer in the additive field.
- The certification has been awarded by an external test centre.
- Your data is safe in the EIGER software!

EIGER Software Cloud Online Version

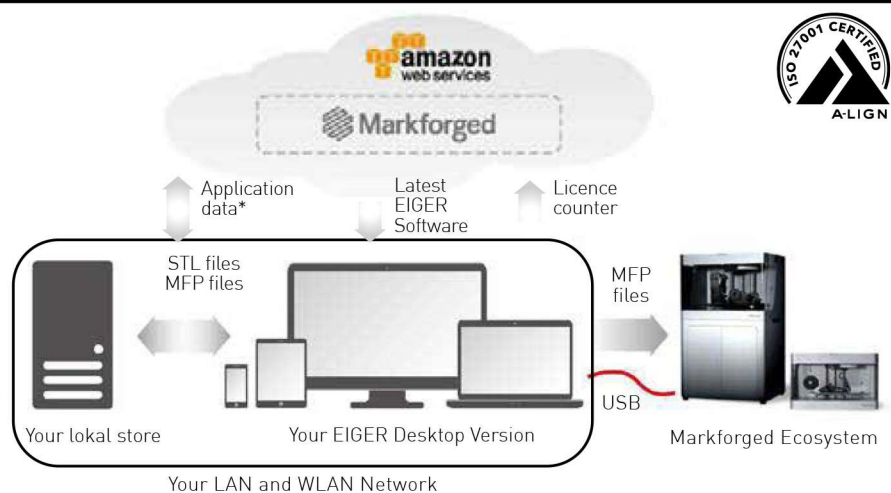
Only users of your organization can access your data. We take the best precautions, including SSL/TLS encryption of any communication with our servers, external backups of user data, and Amazon Web Services (AWS), which preserves the data for us.

Any communication with Markforged is encrypted.



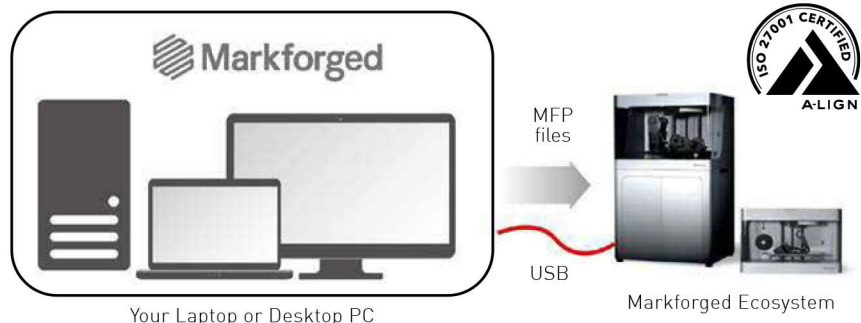
EIGER Software Desktop Online Version

For even greater security we offer an internally storable version from EIGER at no additional cost. The user stores his STL files, the internal slice data and MFP files 100% locally on his hard disk. A permanent internet connection is required for application data, software updates, license verification.



Optional: EIGER Software Offline Version

In special cases we provide a limited version of EIGER off-line for an additional fee.



*In the EIGER Software Desktop online version, your STL files, generated print files or specific geometrical information about your component will not be sent to our servers. We slice to local printing on your machine. Telemetry data sent to the server includes account information for the license server, folder structures, printer settings and used quantities of material/print volumes. These data are covered by the Markforged Privacy Policy.

MFP (Markforged Print) files are the raw output of EIGER software that the Markforged printers use to print the part. Currently the printer can only be connected to the corporate network via a USB device server. To use the cloud version Google Chrome is required. The status of the printer can be viewed as soon as the printer has an Internet connection.



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