Specs and Maintenance

Specs: The Markforged Onyx Pro is a professional-grade composite desktop 3D printer featuring a 320 x 132 x 154 mm build volume, utilizing dual nozzles for Continuous Filament Fabrication (CFF) to embed fiberglass reinforcement into Onyx (micro carbon fiber-filled nylon) parts. Key specifications include a 100 µm minimum layer height, second-generation extruder, and Eiger cloud-based software, delivering high-strength, functional parts with a 16 kg footprint.

Maintenance: Maintenance of this piece of equipment requires a few steps.

- Wash the print bed with a sponge and water (no soap) to remove old glue.
- Remove debris from the print chamber, specifically the vacuum groove.
- Check nozzles and material tubes for wear or damage.
- Empty wiping station bins and check brushes.
- Plastic nozzles (3,200cc) and fiber nozzles (750cc) must be replaced when prompted by the screen banner.
- Adjust belts every 500 print hours.
- Perform a bed level calibration every 10-20 prints, or if adhesion issues occur.
- Periodically clean and lubricate rails.

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