3D Print Water Jet Cleaning Station

PolyJet Waterjet

Tool Type: Post-processing
Location: Microfluidics Lab
Description: Pressure washer
Manufacturer: Stratasys

Last updated 1/5/23 Haley

About

This tool removes support material from parts 3D printed by the Objet 30.

Safety Concerns

- Lid should remain latched and closed whenever the machine is on
- Water should be shut off to the machine imminently after cleaning is finished to avoid accidental flooding
- Cracked protective gloves should imminently be replaced
- Do not operate water jet outside of sealed container

Operating Procedures

1. First remove the bulk of the Objet support material (FullCure705) with the cleaning implements found next to the pressure washer. Wear gloves as uncured resin may be on the surface of the part.
2. Place part within the pressure washer and open the DI valve on the sink. The power switch is located on the back of the washing enclosure.
3. Using the foot pedal, clean the part using the high pressure nozzles located within the enclosure
4. After part has been cleaned, **ensure that the water is switched off** as leaks have occurred within Elings Hall before and will damage equipment
5. To achieve optimal mechanical properties, or if part is to be used as a mold for casting, part should be baked at 60 degrees C for a minimum of 4 hours

---

Detailed Specifications

- Water consumption: less then 12 L/min
- 85-88 dB when operating

Reference Documentation

Objet 30 Users Outline and SOP

objet_waterjet_installation_and_user_guide_-_english.pdf

From:
https://microfluidics.cnsi.ucsb.edu/wiki/ - **Innovation Workshop Wiki**

Permanent link:
https://microfluidics.cnsi.ucsb.edu/wiki/doku.php?id=3d_print_water_jet_cleaning_station

Last update: **2023/07/12 17:05**