

Granulator Deep Cleaning Procedure

GP20 Hybrid

Introduction

The maintenance and cleaning of the GP20 Hybrid is crucial to avoid material cross contamination or any performance issues that could arise from dirt, material build-up, or blockages. This document details the steps needed to carry out a deep cleaning procedure. This can be done directly after processing a material or as part of a regular maintenance procedure.

This step by step guide is used as an **optional addition to the Regular Cleaning Procedure**. When combined, the steps detailed here fit into the Regular Cleaning steps, after the section *Cleaning*, and before the section *Reassembly*.

Common tools

These tools are not provided by 3devo, but are required to perform maintenance tasks and part replacements. They can easily be sourced locally.

- 8 Allen key
- Clean brush
- Vacuum (with thin nozzle attachment)
- Pressurized air (optional)
- Microfiber cloth (optional)

Safety Equipment

Safety equipment, brief description

- Cut proof gloves
- Safety goggles
- earplugs while shredder is on

Safety

1. Carry out procedure with two persons!
2. Hazards of cuts! Use necessary tools and protective equipment.

GP20 Hybrid Regular Cleaning

These are the steps that are completed before Deep Cleaning can start. Below is a quick overview.

Machine

1. Machine is already switched OFF and unplugged.
2. 2 front castor wheels with breaks are locked.
3. Hopper is unplugged and removed.
4. Container is removed and emptied (if necessary).

Granulator

5. Granulator door is unlocked and open.
6. Granulator filter screen is removed and cleaned separately.
7. Area in and around granulator rotor knife is vacuumed and cleaned.

Follow the Granulator Deep Cleaning steps below before continuing with the *Reassembly* section.

GP20 Granulator Deep Cleaning

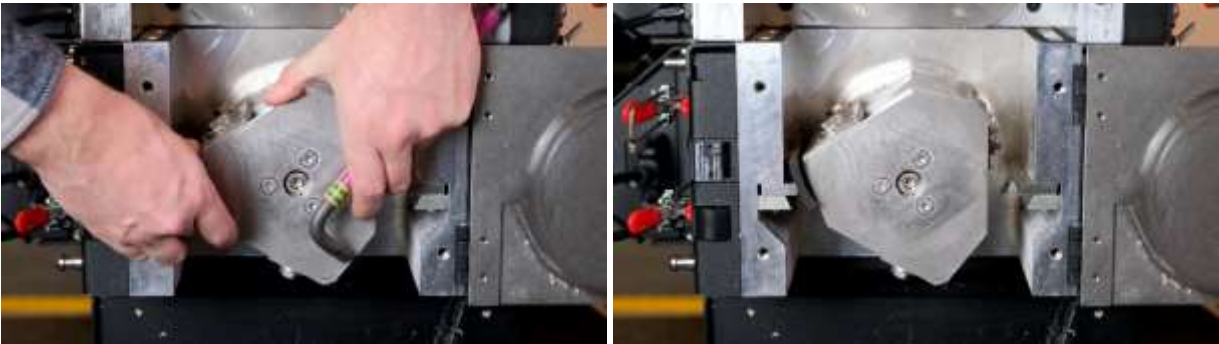
Step by step procedure

Deep Cleaning each module can be carried out separately, however it is advised to start with the Shredder module, then continue with the Granulator module afterwards to avoid further contamination.

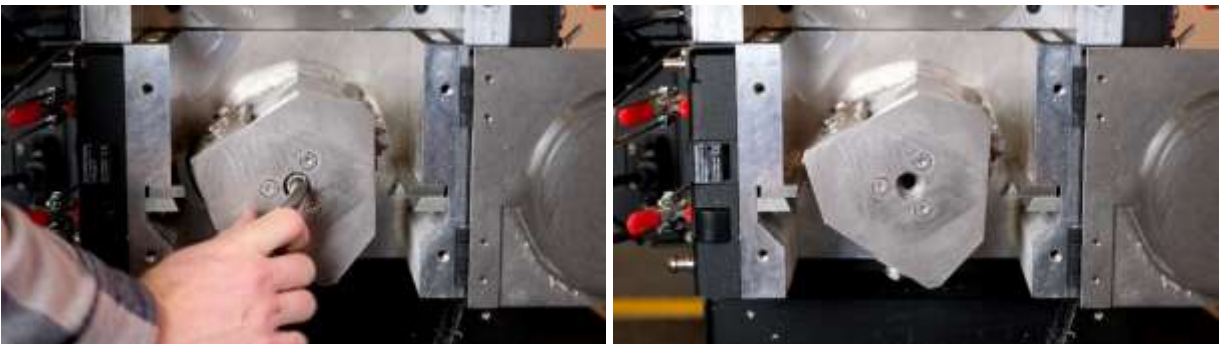
Granulator

Disassembly

1. Add a rubber stopper between the rotating rotor blade and the stator knife, so that the rotor cannot rotate counterclockwise.



2. Loosen the center bolt counterclockwise, then completely unscrew.

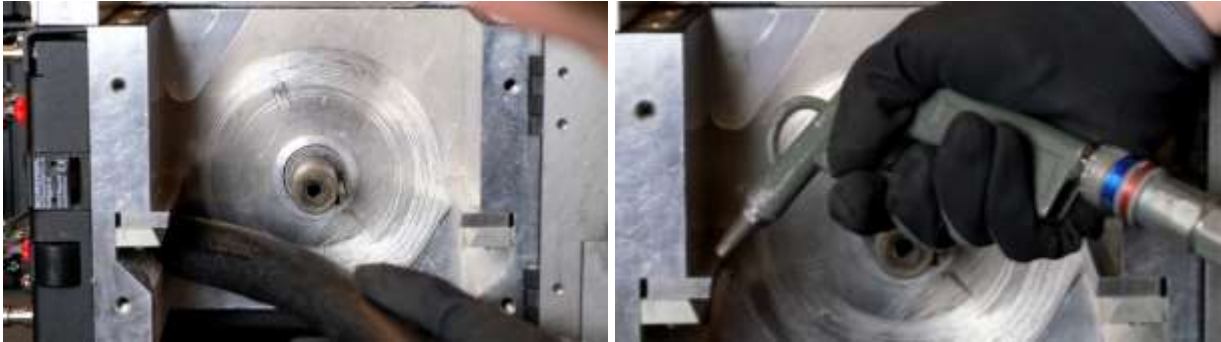


3. Using cut proof gloves, slide out and completely remove the rotor. It is fitted quite tight so some jiggling might help.



Cleaning

4. Vacuum the Granulator area. A microfiber cloth and tweezers may be used to remove stuck pieces in tight nooks. Additionally, pressurized air can also be used to blow out any residue.



5. Vacuum out the rotor. Again, a microfiber cloth and tweezers might also be used to remove stuck pieces in tight nooks. Pressurized air can also be used here.

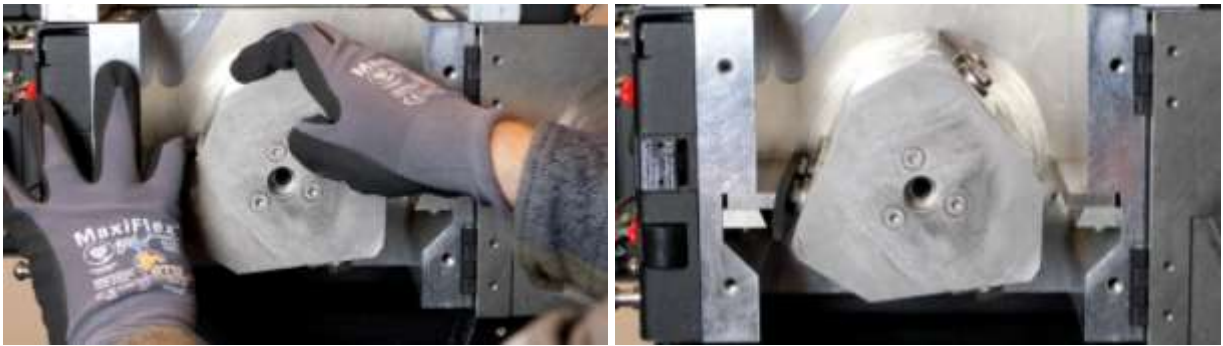


Reassembly

- Put in rotor by sliding it onto the shaft and aligning it with the key. Make sure the rotor is touching the back wall of the Granulator.



- Put in the rubber stopper. This time, however, it is to avoid the rotor from turning clockwise.



- Screw in the center bolt and tighten.



- Remove stopper.



For the remaining steps, including adding the filter screen, continue with the *Reassembly* steps in the *Regular Cleaning Procedure* document.