

- ii. **Do not shred full-scale 3D printed objects**. Cut them into smaller pieces before loading them into the hopper.
- iii. To improve shredding efficiency, reduce the size of the materials by cutting them into smaller pieces.
- iv. Avoid overloading the hopper to prevent jamming and ensure smooth operation.
- v. Always wear protective gloves and eye protection when handling materials.
- vi. Never place foreign objects, such as metal or glass, into the shredder.
- vii. Keep long hair and loose clothing away from the hopper and cutting chamber.
- 3. **Power On**: Connect the Mini Shredder to a power source (AC110V-240V). Make sure the power switch is in the "ON" position.

## 4. Start Shredding

- i. On the controller, move the black control switch to the left (counter-clockwise). The machine will begin shredding the materials.
- 5. **Obstruction Handling**: If the shredder encounters a blockage or ceases, reverse the shredder direction briefly to clear the jam.
  - i. If you need to manualy remove an obstruction, ensure that the shredder is stop and turn off power (unplug for safety).
  - ii. Remove any stuck pieces and resume shredding.

## 4. Technical Specifications

- Motor: The Mini Shredder features a 24V350W DC motor.
- Blades: Stainless steel blades ensure efficient cutting.
- Frame: The shredder is housed within a sturdy 2020 Aluminum Profile Frame.
- Reducer: It includes a worm reducer (NMRV050) for optimal torque and performance.
- Power Supply: The shredder operates on AC110V-240V power supply. Current supply is

## **Tool Captains**

• Michael Bender - Tool Captain - 608-692-6035

Remember to follow safety precautions while operating the Mini Shredder. Always unplug the machine when not in use, and keep it away from water or moisture. Happy shredding!

## 5. Troubleshooting

• **Issue**: The shredder is not shredding materials effectively.

- Solution: Ensure that the materials are clean, dry, and free from foreign objects.
  Reduce the material size for better shredding performance.
- **Issue**: The shredder is jammed.
  - **Solution**: Reverse the shredder to clear the jam. If the jam persists, turn off the power and manually remove the obstruction.
  - **Solution**: Turn off the power, unplug the machine, and manually remove the obstruction. Resume shredding after clearing the jam.
  - **Solution**: If the jam persists, contact the Tool Captain for assistance.
- Issue: The shredder is making unusual noises during operation.
  - Solution: Turn off the machine immediately and inspect the cutting chamber for any foreign objects or obstructions. Remove any debris and resume operation.
- **Issue**: The shredder fails to start.
  - **Solution**: Check the power connection and ensure that the power switch is in the "ON" position. If the issue persists, contact the Tool Captain for further assistance.
  - **Solution**: If the shredder is not operating due to a technical fault, avoid attempting to repair it yourself. Contact the Tool Captain for professional support.
- Issue: The shredder overheats during operation.
  - **Solution**: Allow the shredder to cool down and avoid overloading the hopper. If the issue persists, contact the Tool Captain for guidance.
- Issue: The shredder's belt is slipping.
  - **Solution**: This may occur when the shredder is jammed or overloaded. Reverse the shredder to clear the jam. If the jam persists, turn off the power and manually remove the obstruction.
  - **Solution**: Turn off the machine, unplug it, and clear any obstructions.
  - **Solution**: If the belt continues to slip, contact the Tool Captain for assistance.