

Fabrication: Beginner Building Blocks

Welcome to the Fabrication Building Blocks! Once you have decided on a robot design, the next step is to fabricate the parts you've designed.

- 1. Here are some commonly used hand tools:
 - Wrenches: Adjustable, Open-end wrench, Allen wrench
 - Cutting tools: Tin Snips, Flush Cutters, Crosscut Saw, Coping Saw
 - Measuring: Measuring tape, Measuring square, Level
 - Hammer and Mallet
 - Screwdriver
 - Pliers
 - Files
 - Rivet Gun
 - Chainbreaker
 - Note: This list doesn't include many of the electronics tools that you may also need! Check out the electronics resources for those.

2. Commonly Used Materials:

- <u>Vexpro VersaFrame</u> Tube Stock and Gussets
- Aluminum Tube Stock
- Aluminum Sheet Metal
- Plastic/Polycarbonate Sheets
- Hex and ThunderHex Shaft

3. Commonly Used Power Tools:

- Drills
- Drill Press
- Bandsaw
- Circular Saw
- Jigsaw
- Belt Sander
- 4. Team 3847, Spectrum created a list of the first \$1000 of tools they would purchase if they started over from scrap. Keep in mind- this list doesn't include consumables like tape, metal, bolts, robot components etc.
 - http://blog.spectrum3847.org/2017/11/spectrums-first-1000.html