



SCUTTLE Tools Guide

For Educators, Makers, and Students

Revision 2021.04.06

Shared Tools:

(Large images to print and label bins)



PowerPole Crimpers



DuPont Crimpers



Spade Terminal



Shared Tools:

(Large images to print and label bins)



Flush Cutters



Scissors



Wire strippers





Lab Recommendation:

- ▶ We recommend that you outfit your lab with 1 set of “shared tools” for every 4 robots in your lab.
- ▶ Also, 5S your labs by printing the previous slides out, laminating, and lining your shelves.



Main Hand Tools

- ▶ Easy to use
- ▶ Wide availability
- ▶ Instructional videos online

Throughout the design of the SCUTTLE robot, we co-selected tools and connectors to achieve a repeatable fabrication setup in a classroom environment. Achieve industrial quality without industrial tools.



Tools for the Maker



Recommended for all Roboticists!

- ▶ TS100 programmable soldering iron
- ▶ Safety Glasses (for all soldering work)
- ▶ Hot Glue Gun with temp control
- ▶ DC Power supply
 - ▶ (capable of 10A output at 30v)
- ▶ Rosin flux pen
- ▶ Solder
 - ▶ Lead
 - ▶ 0.8mm diameter



Kits (to offer with each robot):

- ▶ Allen Key
 - ▶ 6mm for M8 bolt
 - ▶ 4mm - for M6 screws
 - ▶ 2mm for M3 screws
- ▶ SCUTTLE wrench (13mm hex wrench built in)
- ▶ Phillips #1 hex-shank bit (for M2 coarse screws)



These tools make teardown and rebuild of the SCUTTLE robot quick and easy. We recommend that a lab is outfitted with 1 set for each robot.

