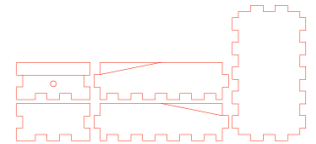


# Machine Screw Bins

## Project Checklist

### Teams of 2

- 1. Create your team and define roles.
- 2. Select your sizes of bolts, styles and how many boxes you need
  - a. Standardize the boxes
  - b. Make sure they fit the amount of each bolt type and length (.75" – 3")
  - c. Make sure the boxes fit in the rack
- 3. Develop a simple open box that fits without any adhesive and has a 10-24 x1" drawer pull
- 4. The box is laser cut out of .2" thick lauan plywood
- 5. The box will be designed in 2D accounting for kerf and final tolerance of .050"
- 6. Create 3 test jigs to make sure your final boxes are in within spec and are square
- 7. Lower the front edge of the box so that the bolts can be seen and there is room for a label on the box



### Class

- 1. Define amount of boxes and collaborate to split up the boxes based on bolt size, type and length
- 2. Include SAE #6, #8, #10, #12, 1/4", 5/16", 3/8", 7/16", 1/2"
- 3. Include Metric 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm
- 4. Include washers, lock washers, hex nuts, and lock nuts for each size
- 5. Make sure to include hex, socket cap, flat, buttonhead types
- 6. We will develop a full class manufacture of all the boxes

