

# 2026.02 SCUTTLE inventory design

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This document informs solutions for inventory management including:

- how are 3d prints stored & counted?
- how do parts get staged before assembly?
- before boxing kits, where are the parts arranged?

And general strategies:

- How to store parts if the inventory may grow or shrink later? (using dividers)
- how to keep even amounts of left-hand and right-hand parts? (visual sorting)
- how to maintain a ready amount of prints for each color? (rows by color, columns by part)
- how to identify part names? (clip-on labels, removable)

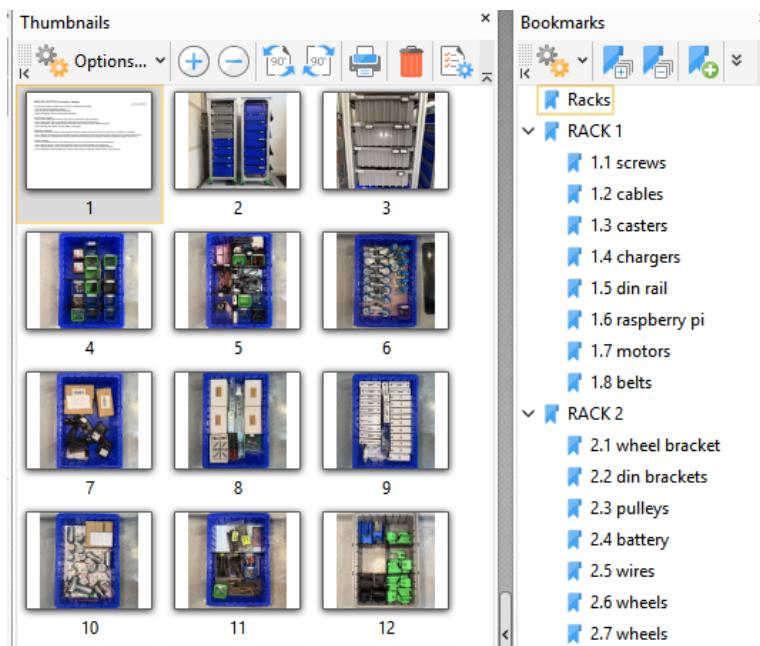
Distribution strategies:

- how to get inventory compliant if the designs change? (discrete parts are stored by component, for updating as needed)
- how to allow for modified robots, like larger chassis? (motors are made ready without wires, soldering only a subset of the wires)
- how to prepare for customer-built robots? (wheels stored separate from bearings, bearings installed as-needed, and so on.)

Facility strategies:

- how to form workstations for robot building? (bins can be removed and carried to workstations)
- how to keep a full set of robot parts together? (bins are racked together on a rolling unit)
- how to build scalable inventory modules? (for larger scale, bin rack can be duplicated exactly)
- how to separate printed workflow from off-the-shelf workflow? (separate colors for bins, gray and blue)

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