



## ROBOTICS MANUFACTURING QUICK GUIDE

# FROM **Prototype** TO **Production**

Tips to help scale your robotics company and bring more value to your prototype.

Use this quick guide once you have completed a standard design process and your customer research.

### Solidify the Bill of Materials (BOM)

ENSURE ALL YOUR PROTOTYPE PARTS AND PIECES ARE ACCOUNTED FOR BY:

- Assessing the mechanical model of the product and breaking out the components of the product build.
- Assessing and incorporating the hardware - how is everything being put together?
- Including all components of the product's electronics - cables, wires, power systems, and control boxes.
- Creating subassemblies of your mechanical and electrical BOMs.

**TIP 1**

## TIP 2

### Create a Document Control Process

- Quality control matters and it starts with good document control.
- Have a system in place to manage revisions and changes to your product.
- Establish a baseline with your contract manufacturer and easily capture what is currently being built and the changes to your BOM or design.

## TIP 3

### Establish a Project Timeline

UNDERSTAND YOUR PRODUCT INTO PRODUCTION NEEDS:

- When is the product needed?
- Are there pending changes that will affect the schedule?
- What is included in the production timeline and what is out of scope?

#### ADDITIONAL CONSIDERATIONS TO ACCELERATE YOUR PROTOTYPE TO PRODUCTION PROCESS

##### Quality

- Identify the most critical components of the product.
- Communicate your quality needs to your contract manufacturer for the right assembly care of your product's components.
- Identify tolerances of any mechanical components and consider tolerance stacking.

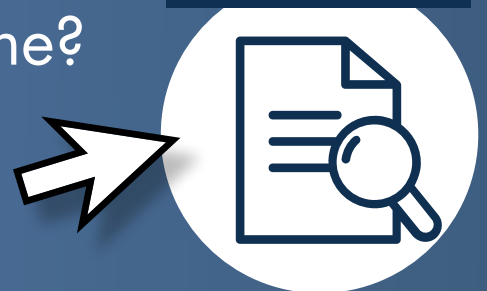
##### Internal Team

- Assess your internal capacity to make sure you have the resources needed to support your production line.
- Determine or designate a team to provide support as your product transitions to a production state.

Ready to scale your production line?

Submit your document package for a free review. [Click to begin.](#)

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