

Getting started

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Draft content: measurements and settings will be updated as they are verified on the arm.

The system has three layers: **mechanics** (cycloidal reducer and arm parts), **electronics** (a control board that sits on an Arduino Mega) and **software** (kinematics and motion control running on the PC). The package to start with depends on your goal:

PRINTING THE REDUCER

[Cycloidal Reducer 33:1 · Files](#)

CHANGING DIMENSIONS

The **STL + STEP** option of the same product

BUILDING THE ROBOT ARM

[RB-6 Robot Arm · Full STL](#) (price coming soon) + 6 reducers

Tools you need

- A desktop FDM printer; PETG (discs) and PLA (other parts) filament
- A metric hex key set (2.5 mm for M3)
- A vise or a flat block for pressing in bearings
- A soldering iron, a multimeter and a 24 V power supply for the electronics