

Robotic Arm

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Summary

Arduino based Robotic Arm Full Assembly guide and code-base

Hobby & Makers > RC & Robotics

Tags: robot diy arduino robotics code roboticarm

Robotic Arm

Arduino based Robotic Arm

Full Assembly guide and code-base

This listing is for the printable model/CAD files. The full project source of truth lives on GitHub, where the build resources can be updated without keeping PDFs, code archives, or documentation bundles attached to the 3D-printing sites.

Build resources

- Project repository
- Bill of Material
- Assembly / build guide

- Source files

Recommended tools and supplies

Useful shop supplies for this build:

- Soldering iron TS101: AliExpress / Amazon / regional option
- Heat insert tip - set: AliExpress / Amazon / regional option
- Electric precision screwdriver: AliExpress / Amazon / regional option
- Allen key set: AliExpress / Amazon / regional option
- Hex key set: AliExpress / Amazon / regional option
- Torx key set: AliExpress / Amazon / regional option
- Wire stripper: Amazon / regional option
- Wire cutter: AliExpress / Amazon / regional option
- Heat insert press tool: AliExpress / Amazon / regional option
- Heat insert kit: AliExpress / Amazon / regional option
- Filament: PETG/ASA/ABS/PC for structural parts, PLA for cosmetic parts, and TPU where the design calls for flexible feet/tires.

What is included here

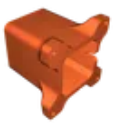
- Printable model files
- CAD/source model files where available
- Images and platform-specific print/model metadata

For ordering, electronics, firmware, wiring, and assembly details, use the GitHub links above as the current source of truth.

Model files



0007-0101-1m1.stl



0007-0102-1m3.stl



0007-0103-1m2.stl



0007-0201_2m1.stl



0007-0202_2m2m.stl



0007-0203_2m2h.stl



0007-0204_t2m1bd.stl



0007-0205_t2m1bi.stl



0007-0301_3m1.stl



0007-0302_3m2c.stl



0007-0303_3m2.stl



0007-0304_t3m1c.stl



0007-0401_4m1.stl



0007-0402_4m2.stl



0007-0403_4m2c.stl



0007-0404_t4m1e.stl



0007-0501_bottom-plate.stl



0007-0502_cylinder.stl



0007-0503_gripper-left.stl



0007-0504_gripper-right.stl



0007-0505_idol-gear.stl



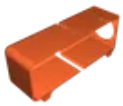
0007-0506_pivot-arm.stl



0007-0507_servo-gear.stl



0007-0508_top-plate.stl



0007-0601_servo-gearbox.stl



0007-0602_fan-module.stl



0007-0603_suport-drivers.stl



0007-0701_cover-axis2.stl



0007-0702_cover-axis3.stl



0007-0703_cover-axis4.stl



0007-0704_cover-axis4top.stl



0007-0801_feet.stl

Other files

Documentation 1 file



robotic-arm-bill-of-material.pdf



0007-1000_robotic-arm_bom.pdf



0007-1000_assembly_guide.pdf



firmware.zip

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