



SCARA robot



VIEW IN BROWSER

updated 12. 9. 2022 | published 12. 9. 2022

Summary

Educational scara robot. Slower than industrial versions, yet pretty strong and accurate

<u>Learning</u> > <u>Engineering</u>

Tags: educational robot scara

INNOVET SCARA Robot. <1000€ educational SCARA robot. Easy to build with easy to obtain parts in Europe. Perfect as a schoolproject. Not only the building of the robot, but the robot can also be used in many STEAM projects. Check the BOM for parts and the movie for assembly.

The STL's should be printed, the STEP files, should be machined out of 6061 Aluminium.

Use any 4 axis CNC controller to control the robot. I have succefully used GRBL-HAL on a teensy 4.1 and 6-axis GRBL on an arduino mega.

I used car bearings for a solid setup (see bom)

Check the assembled step-file for assembly.

or:

everything can be printed without support.

Model files



j3-arm-cable-cover.stl



buisdop.stl



j2-j3-bearing-bottom-cable-cover.stl



kleine-riemschijf-voor-test.stl



flexhosecoupler.stl



bearing-spacer.stl



 ${\bf voorlopig-definitieve-riemschijf.stl}$

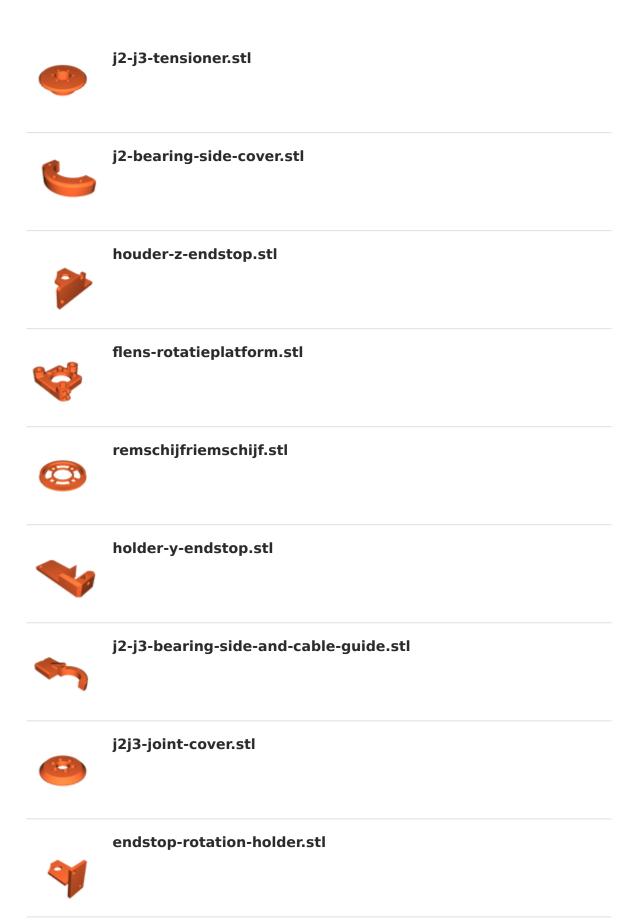


bevestigingsflens.stl



houder-endstops.stl







j2-wire-cover.stl

top-lid.stl



upper-flange.stl



bushing.stl



spanner-j1-motor.stp



j3-arm.stp



j2-arm.stp



scara-robot-assebled.stp

Other files



bom.pdf

License **G**



Attribution-NonCommercial

- **★** | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- **X** | Commercial Use
- **★** | Free Cultural Works
- ★ | Meets Open Definition