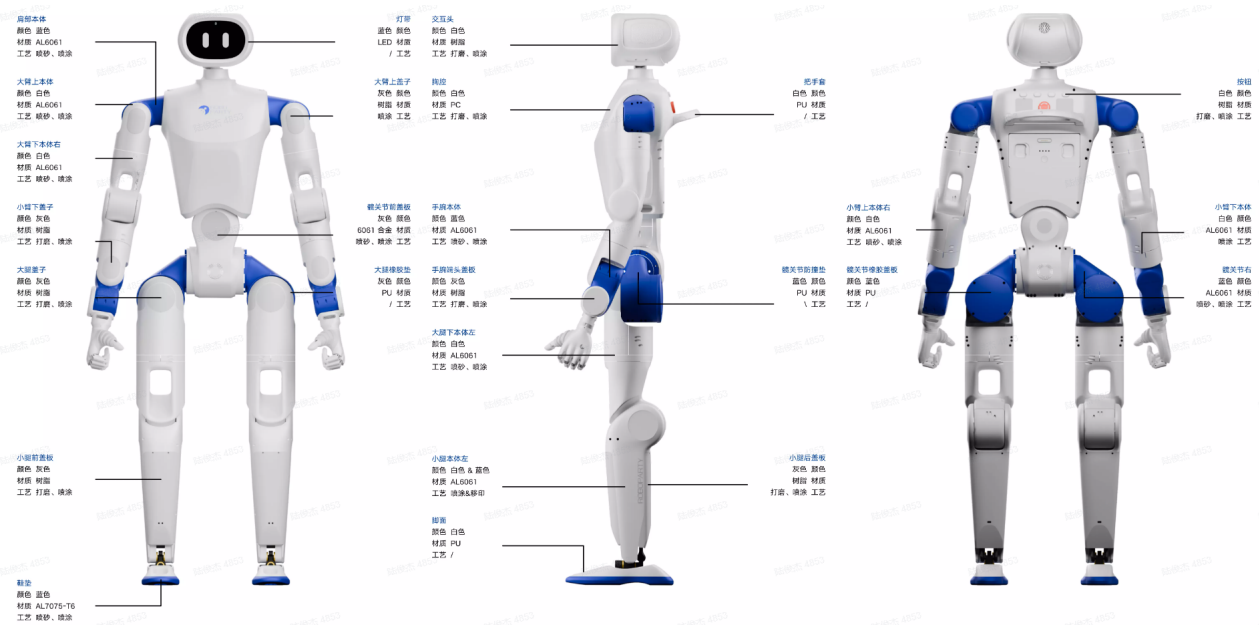
Open Robots

What European buyers still need to verify

An RP1 case study in engineering evidence, commercial rights and delivery economics.



Published RP1 engineering views, with original source markings.

Practical checks for a better buying decision.

Image: RoboParty, RP1 hardware overview, CC BY-SA 4.0. Unmodified.

Official visual Image licence

Open files are a starting point.

Delivery depends on how the work is organised.

01 **Source & build**

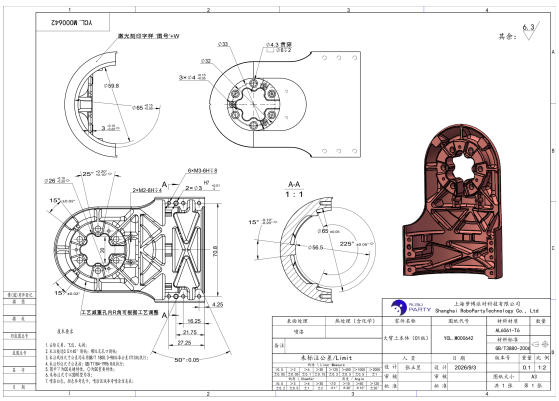
Parts, tolerances and assembly

02 **Configure & verify**

Calibration and acceptance

03 **Operate & support**

Fault diagnosis and spares



Upper-arm machining drawing
RoboParty / CERN-OHL-W-2.0

Inspectability helps a team understand the design. Delivery still needs a repeatable build and support process.

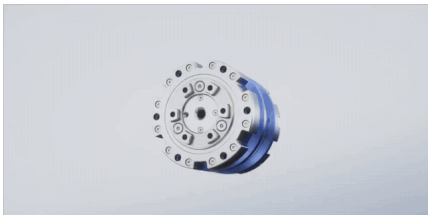
Who owns each step after the robot arrives?

Drawing: RoboParty, YCL.M000642, CERN-OHL-W-2.0. Delivery points are our analysis.

Complete drawing source Drawing licence White paper

Read the boundary around each number.

RMM10062 actuator module



ROMOMO engineering render
Exact module not identified

44 N·m

Rated torque

160 N·m

Peak torque

The peak figure is not every joint's continuous torque, and it is not a robot payload rating.

Module hours need system context.

About 900 hours sums tests across module categories. It does not establish a 900-hour continuous whole-robot run or fleet uptime.

Image: RoboParty / ROMOMO animation still, CC BY 4.0. Specifications and tests are manufacturer-documented.

White paper: pp. 9, 41-45 ROMOMO source Image licence

Check each component's licence.

A top-level label cannot settle every right.

Hardware design sources	**CERN-OHL-W-2.0**
Explanatory docs / images	**CC BY-SA 4.0**
Deployment code	**GPL-3.0-only**
UFO research framework	**CC BY-NC 4.0**

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Hardware mapping Deployment terms UFO terms

Compare the full cost of an equivalent task.

ILLUSTRATIVE ONLY - NOT RP1 PRICES OR ROI

A 3-year example, all cash values in SEK

Assumption	Buy	Build
Equipment / parts	**250,000**	**160,000**
Other upfront costs	**20,000**	**15,000**
Engineering at 900 SEK/h	**60 h**	**220 h**
Running + downtime / year	**30,000**	**44,000**

3-YEAR MODELLED COST

414,000 **505,000**

Total = upfront + engineering + years × (running + downtime).

Undiscounted. Equipment lasts the period; no replacements or residual value. Excludes financing and recoverable VAT.

Explore and change the assumptions

Start with one task. Make the evidence useful.

1 Fix the baseline

Hardware, firmware, model, policy and permissions.

2 Agree acceptance

Task, load, environment and human role.

3 Measure the work

Success, interventions, faults and recovery.

4 Price the support

Spares, response scope and responsibility.

What creates the most uncertainty in your buy, build or deploy decision?

Explore the interactive report

roboticshub-rp1-engineering-review.bob-cheng.chatgpt.site

Image credit: RoboParty RP1 hardware overview, CC BY-SA 4.0, unmodified. Full evidence and sources are in the report.

Original image CC BY-SA 4.0