

Vacuum Cleaner for the XRP robotics kit



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Summary

A small vacuum cleaner that can be mounted to the rails of the XRP robotics kit

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Tags: [vacuum](#) [vacuumcleaner](#) [xrrobotics](#)

By attaching this vacuum to your XRP kit you can create a small roomba for your desk or your other small-scale cleaning needs :)

Required hardware:

- 6x 30mm M3 screws
- 9x heat insert threads
- 5x 10mm M3 screws
- 2x M3 nuts
- 28mm DC motor
- Filter paper

Assembly:

1. Press 6x heat insert threads into the dust chamber and 3x into the motor mount.

2. Press the motor into the motor mount and screw the motor bracket onto the motor mount using 3x 10 mm M3 screws
3. Press the impeller onto the motor shaft
4. Screw the snout to the dust chamber using 2x 10mm M3 screws and nuts
5. Put filter paper over the opening of the dust chamber
6. Place the impeller housing over the filter paper
7. place the motor block over the impeller housing
8. screw the 6x 30mm screws through the motor block, impeller housing and dust chamber
9. Screw the screw cap into the dust chamber and slide the XRP bracket onto the main assembly.
10. Vacuum :)

Model files



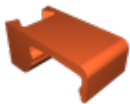
impeller.stl

☐ Print in fairly high resolution. E.g. 0.15.



screw_cap.stl

☐ Print in fairly high resolution. E.g. 0.15.



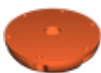
xrp_bracket.stl



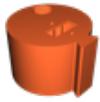
snout.stl



impeller_housing.stl



motor_mount.stl



dust_chamber.stl

☐ Print in fairly high resolution. E.g. 0.20 or use variable layer height



motor_bracket.stl

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