

XRP Robot - Top Mounting System



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Summary

Top mounting system for the XRP robot to mount accessories on top

[Hobby & Makers](#) > [RC & Robotics](#)

Tags: [mount](#) [mountingbracket](#) [sparkfun](#) [xrp](#)
[mountingframe](#) [xrrobotics](#)

This design is for the newer version of the frame (V1.5.3)

This is the **XRP Top Mount System**: a solution for expanding your robot's capabilities. This versatile frame allows you to securely attach **sensors**, **microcontrollers**, **Raspberry Pis** and more. Customize your setup with ease by designing your own adapters to fit any additional components you desire. Enhance your robotics projects effortlessly with the XRP Top Mount System.

If you encounter any issues when printing the TMS or need support, please feel free to let me know.

Happy printing :)

Required parts per frame

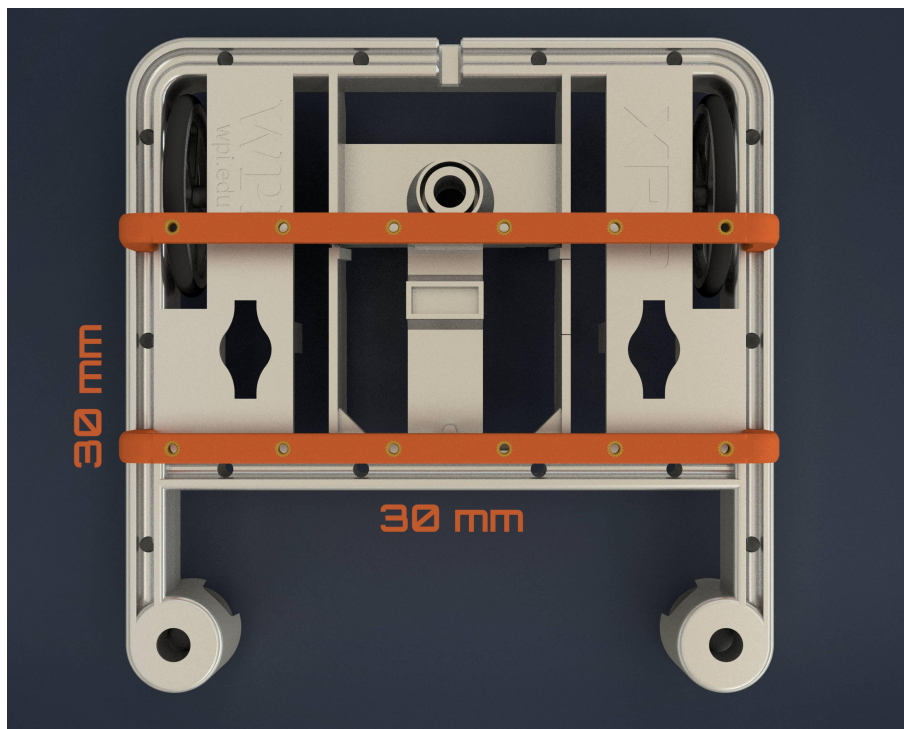
With threaded heat inserts	Without threaded heat inserts
<ul style="list-style-type: none">• 1x printed frame (M3 or M4 version)• 2x printed screw adapter• 2x M4x35 or M4x40 screws• 6x M3 or M4 SHORT threaded heat inserts	<ul style="list-style-type: none">• 1x printed frame (M3 or M4 version)• 2x printed screw adapter• 2x M4x35 or M4x40 screws

How to assemble

1. Press in the heat inserts (for the threaded heat insert version)
2. Place the frame on the XRP robot and align it with the holes in the frame
3. Place a screw adapter over the M4 screw and mount it from underneath
4. Repeat step 3 on the other side

How to design your own adapters

If you want to design your own mounting adapter, here are the measurements you need



So, when you mount the frames like in the picture above, your design needs a mounting hole spacing of 30 x 60 mm, 60 x 60 mm and so on.

Changelog

Date	Version	Type	Comment
2024-06-20	V1.0	Release	

Model files



xrp-tms_frame_m3_v1.stl

☐ For direct screwing in M3 screws



xrp-tms_frame_m3-heatinsert_v1.stl

☐ For M3 threaded heat inserts



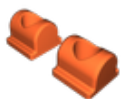
xrp-tms_frame_m4_v1.stl

☐ For direct screwing in M4 screws



xrp-tms_frame_m4-heatinsert_v1.stl

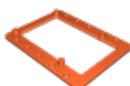
☐ For M4 threaded heat inserts



xrp-tms_frame_screwadapter_v1.stl



xrp-tms_mount_arduinouno_v1.stl



xrp-tms_mount_raspberrypi_v1.stl

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