

Ender 5 S1 additional bed support (Updated)



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Summary

This mod will help strengthen your bed and improve the quality of your prints.

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Tags: [ender5](#) [enderupgrade](#) [ender5s1](#)

This mod is still in testing.

I did not test this mod on the factory head! In the future, I will look into this and fix some parts.

I developed this mod because I started noticing Z fluctuations when the bed goes below 100mm from the print start point. I categorically did not want to use an additional Z-axis screw, and after some tests I came to the conclusion that everything would work perfectly without the additional Z-axis screw, even more, the bed began to move more smoothly after installing additional supports, the rigidity of the structure increased significantly.

I use 12mm steel cylindrical rails, I used aluminum supports for fastening to the frame, but if desired, I also modeled a printable version.

List of what you need:

- steel guides 12mm, length 450mm x2
- linear bearing LM12UU x2
- steel screw with hexagon head M4x12mm x4

- steel screw with hexagon head M3x14mm x4
 - steel screw with hexagon head M5x15mm x8
 - steel screw with hexagon head M5x22mm x4(When using the print support)
 - T-nut for aluminum profile M5 x8
 - T-nut for aluminum profile M4 x4
 - nut with nylon insert M5 x4(When using the print support)
- Parts are best printed in ABS, use 30-40% infill for linear bearing holders, use 100% infill for steel shaft supports.

Model files



v2

3 files



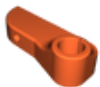
table-support-for-21mm-linear-bearing.stl



lower-shaft-support.stl



upper-shaft-support.stl



ender-5s1-support-l.stl



ender-5s1-support-r.stl



shaft-mount-12mm.stl

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