



Articulated Tripod



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VIEW IN BROWSER

updated 26. 5. 2020 | published 26. 5. 2020

Summary

For today's project, I put together several unique techniques and mechanisms into one miniature articulated tripod.

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For today's project, I put together several unique techniques and mechanisms into one miniature articulated tripod. These are all original ideas and I am excited to present them to you. The tripod consists of three sections; hyperboloid ring, articulated tripod head, and phone clamp. Each takes advantage of the unique properties of 3D printing or 3D printing material; the hyperboloid ring uses printing within a 3D print to achieve a free-spinning inner ball mechanism or hinges on the tripod head using the friction between TPU filament.

Assembly video: <https://www.youtube.com/watch?v=qERi1PY37gl>

More details: <https://www.instructables.com/id/3D-Printed-Articulated-Tripod>

Model files



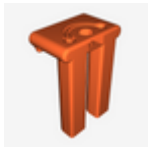
4-65mm-clip.stl



3-75mm-clip.stl



phone-clamp-top.stl



phone-clamp-base.stl



pin.stl



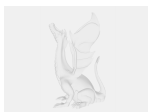
tripod-head-base.stl



tripod-head-cylinder.stl



articulated-tripod-head.step



hyperboloid-ring.step



screw-knob.stl



hyperboloid-ring-with-threads.step



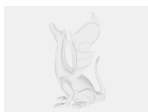
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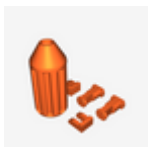
hyperboloid-ring-with-screw.stl



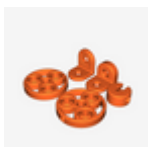
hyperboloid-ring.stl



phone-clamp.step



tripod-set-part-2.3mf



tripod-set-part-1.3mf

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