



Twist Lock Modular Articulated Arm (100% Printed)

 **StickAtSea**

[VIEW IN BROWSER](#)

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Summary

Twist Lock version of my articulated arm that doesn't require magnets.

[Hobby & Makers](#) > [Mechanical Parts](#)

Tags: [holder](#) [headphone](#) [cable](#) [twist](#) [stand](#) [modular](#)
[arm](#) [lock](#) [articulated](#) [smartphone](#) [management](#)
[microphone](#)

Check out the new version!

Like the magnetic version, very easy to assemble, just print and put together.

I would say the main difference is the lack of the satisfying snap from the magnets and the extra step to lock/unlock, but I **think** (I haven't been able to properly test this yet, as I have used different materials and slicer settings) that this version might hold more weight perpendicular to the arm rotation.

I'm also including the modified clamps for this mechanism.

- Added some .step files, let me know if you need a specific one.
- Added hinges with female connectors for easily printable rotations,

thanks @Bobster for bringing up the issue!

-Added two untested adaptations for a microphone stand. The 'top' is standalone, the 'bottom' has to be used with the top from the original maker <https://www.printables.com/model/159430-microphone-holder-for-mic-stand>

-Added a small clip for cable management

-Added swivel connectors, print in place, rotates freely, you can put a piece of filament through the little hole to block rotation



This remix is based on



Microphone Holder (for Mic Stand)

by LilMikey



Magnetic Lock Modular Articulated Arm

by StickAtSea

Model files



step files

6 files



hinge-a-tl.step



hinge-b-tl.step



arm-a-tl.step



arm-b-tl.step



female-connector.step



male-connector.step



Clamps

14 files



twist-lock-clamp-18mm.stl



twist-lock-rotated-clamp-18mm.stl



twist-lock-clamp-21mm.stl



twist-lock-rotated-clamp-21mm.stl



twist-lock-clamp-25mm.stl



twist-lock-rotated-clamp-25mm.stl



twist-lock-clamp-30mm.stl



twist-lock-rotated-clamp-30mm.stl



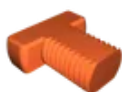
twist-lock-clamp-40mm.stl



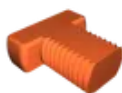
twist-lock-rotated-clamp-40mm.stl



screw-tight-tolerances.stl



flat-screw.stl



flat-screw-tight-tolerances.stl



screw.stl



arm-a-tl.stl



arm-b-tl.stl



arm-a-short-tl.stl



arm-b-short-tl.stl



twist-lock-pin.stl



simple-base-tl.stl



hinge-a-with-connector-tl.stl

☐ Use the longer pin for this one



longer-tl-pin-for-hinge-a-with-connector.stl



hinge-b-with-connector-tl.stl



hinge-a-with-female-connector-tl.stl

☐ For 90° rotations, use longer pin!



hinge-b-with-female-connector-tl.stl

☐ For 90° rotations



swivel-connectors.stl



small-headphone-holder.stl



cable-management-clip.stl



90-rotation-ccw-tl.stl



90-rotation-cw-tl.stl



blank-hinge-a-tl.stl



blank-hinge-b-tl.stl



untested_22-30mm-mic-holder-top-with-connector.stl



untested_mic-holder-bottom-with-connector.stl

☐ Use with top from this <https://www.printables.com/model/159430-microphone-holder-for-mic-stand>



mic-holder-31-33mm.stl



connector-unlock-tool.stl

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