



TCV phone stand



[VIEW IN BROWSER](#)

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Summary

Tilttable Compliant mechanism printed in Vase mode. All the cool stuff in one model ;). That is TCV phone stand.



6.49 hrs



2 pcs



0.20 mm



0.40 mm



PLA



58 g



Prusa
MK3/S/S+

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Tags: [vase](#) [stand](#) [phonestand](#) [phone](#) [vasemode](#) [mobile](#)
[compliant](#) [mobilephone](#) [compliantmechanism](#) [tiltable](#)

There are so many different phone stands on the Internet, so it's hard to come up with something new, but I believe the TCV stand is unique.

It is **T**ilttable **C**ompliant mechanism printed in **V**ase mode.

It provides 5 different positions (angles) of the phone. Printing is done in the middle position and the model is predestined to vase mode print (0.4mm nozzle). The narrow gaps in the model are just 0.05mm so make sure to set "Slice gap closing radius" to 0mm (otherwise the slicer will

close them) and use XY compensation (for example 0.02mm) to weld these gaps correctly.

Printing !!! : (also see .3mf file)

1. **Turn on vase mode (Print settings/Layers and perimeters/"Spiral vase")**
2. **set 0 bottom layers (Print settings/Layers and perimeters/"bottom")**
3. **No elephant foot compensation - (see the last picture)**
4. **Slice gap closing radius 0mm - (see the last picture)**
5. **use XY compensation (0.02mm) - (see the last picture)**

There are 2 versions in the files. Basic "TCV_phone_stand" (phone thickness up to 12mm) and wider "TCV_phone_stand_15p5mm" for devices up to 15.5mm.

Also check out:

<https://www.youtube.com/channel/UChKp-968z1i5PN29gbR7YfA>

<https://www.cgtrader.com/rorys3d>

Model files



tcv_phone_stand.3mf



tcv_phone_stand.stl



tcv_phone_stand_15p5mm.3mf



tcv_phone_stand_15p5mm.stl

Print files



tcv_phone_stand_02mm_pla_mk3s_3h14m.gcode

PLA 0.40 mm 0.20 mm 3.23 hrs 29 g Prusa MK3/S/S+



tcv_phone_stand_15p5mm_02mm_pla_mk3s_3h16m.gcode

PLA 0.40 mm 0.20 mm 3.26 hrs 29 g Prusa MK3/S/S+

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