Solder Jaws UPDATED (new track and SOFT jaws)

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VIEW IN BROWSER

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Summary

A highly reconfigurable articulating vise for holding circuit boards, components, etc for soldering or other work.

🕐 29.35 hrs	7 pcs	0.20 mm	0.40 mm	PET Flex	350 g	Prusa MK3/S/S+

Hobby & Makers   >   Tools

Tags: clamp   vise

Everything (except the washers) printed in PET-G with 40-50% infill and NO support. Threaded parts fit well when exercised a bit to smooth them out. Washers (print file for TPU included herein) or 10MM o-rings are advised between the articulating segments for better rigidity.

Easy to assemble in many different ways, the "tracks" are all the same geometry (the same cross section, a hole on one end and threads on the other), but differing lengths.

Jaws and the support piece slide on to one track and are fixed using the smaller (6MM) screws), then another track is inserted into the bottom of the support piece. Other tracks attack to each other with the 10MM screws. (3, 6MM and 2, 10MM and 2, washers are used in the complete assembly)

Several gcode files are provided to break up the print sessions

ADDED: new Medium track and soft jaws (these slip over the existing jaws)

Model files

solderjawsbase.stl

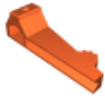**solderjawsscrew.stl**

solderjawsjawl.stl

solderjawstrackshort.stl

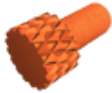**solderjawssupport.stl**

solderjawswasher.stl
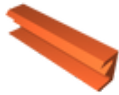
solderjawstrack.stl

solderjawsjawr.stl

solderjawstrackvshort.stl

solderjawsscrew10mm.stl

solderjawssoftjaw.stl

solderjawstrackmedium.stl

Print files

solderjawssupportscrews_02mm_petg_mk3s_1h28m.gcode

⊛ PET   ⌀ 0.40 mm   ≡ 0.20 mm   ⏱ 1.47 hrs   ⚖ 13 g   🖶 Prusa MK3/S/S+

solderjawsjawlrbase_02mm_petg_mk3s_6h51m.gcode

⊛ PET   ⌀ 0.40 mm   ≡ 0.20 mm   ⏱ 6.84 hrs   ⚖ 132 g   🖶 Prusa MK3/S/S+

solderjawswasher_02mm_flex_mk3s_9m.gcode

⊛ Flex   ⌀ 0.40 mm   ≡ 0.20 mm   ⏱ 0.14 hrs   ⚖ 1 g   🖶 Prusa MK3/S/S+

solderjawsshtracksscrew10mm_02mm_petg_mk3s_2h24m.gcode

❀ PET 🌡 0.40 mm ≡ 0.20 mm 🕐 2.41 hrs ⚖ 20 g 🗒 Prusa MK3/S/S+

solderjawseverything_02mm_petg_mk3s_16h29m.gcode

❀ PET 🌡 0.40 mm ≡ 0.20 mm 🕐 16.49 hrs ⚖ 163 g 🗒 Prusa MK3/S/S+

solderjawssoftjaw_02mm_flex_mk3s_55m.gcode

❀ Flex 🌡 0.40 mm ≡ 0.20 mm 🕐 0.92 hrs ⚖ 9 g 🗒 Prusa MK3/S/S+

solderjawstrackmediumscrew10mm_02mm_petg_mk3s_1h5m.gcode

❀ PET 🌡 0.40 mm ≡ 0.20 mm 🕐 1.08 hrs ⚖ 13 g 🗒 Prusa MK3/S/S+

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