



Bidon for Bike Tools + Cap expander



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Summary

The video on YouTube says it all: <https://youtu.be/uFuYvUkHlpl> About the Cap expander (short video):...



21.01 hrs



2 pcs



0.20 mm



0.40 mm



PLA



148 g



Prusa
MK3/S/S+

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Tags: [holder](#) [storage](#) [tools](#) [bike](#) [biker](#) [bidon](#) [emtb](#)
[biking](#)

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About the Cap expander (short video): <https://www.instagram.com/p/CD083fJD9Tj/>

Easy printable even on hobby 3D printer, simple to mount, universal for almost every bike basket with standard diameter. That's a bidon for necessary tools for your. Combine different heights with different caps and colours.

Modular **Cap extender** to enlarge the bidon volume according to free space between your bike frame. Flexible material (TPU, TPE) is a big plus here again.

Print instructions

Use quality materials for long-term **outdoor use**. ASA for rigid parts, TPU 98A or 95A for flexible ones etc. Some experience with flexible materials is usefull here. Bidon body is better made from TPU (maybe Nylon or TPE will work too) as it is more practical during mounting.

Tip: Watch out to not push flexible caps from sides while tightening as it should be tighten with as low force as possible. Why? You will see. TPU on TPU is like rubber on rubber. ;)

All parts can be printed without supports, only outter wire insert should have supports. These two wire inserts are mentioned only for flexible materials as you need to open them. (See the video.)

Resolution: 0.2mm is good enough

Filament_brand: Fillamentum

Filament_material: ASA, TPU 98A; PLA (for prototypes)

Model files



bidon_178mm_xxl.stl



bidon_168mm_xl.stl



wire_insert_outter.stl



cap_3dw_rugged_edge.stl



cap_3dw_smooth_edge.stl



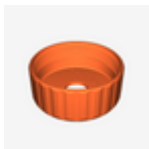
bidon_158mm_l.stl



bidon_148mm_m.stl



wire_insert_inner.stl



cap_for_wire_out_rugged_edge.stl



cap_no_logo_rugged_edge.stl



cap_cube_rugged_edge.stl



cap_extender_plus60mm.stl



cap_extender_plus40mm.stl



cap_extender_plus20mm.stl

Print files



cap_cube_rugged_edge_02mm_pla_mk3s_3h5m_2cols_s.gcode

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 3.08 hrs ⚖️ 33 g 🖨️ Prusa MK3/S/S+



bidon_168mm_xl_02mm_flex_mk2s_17h56m.gcode

📏 0.40 mm 📏 0.20 mm ⌚ 17.93 hrs ⚖️ 115 g 🖨️ Prusa MK2/S

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