



Corner radius mask for milling metric - imperial



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Summary

PETG R5-R40 corner router jig with puzzle joints, organizer rack, and bi-directional clamping slots.

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Interchangeable Corner Rounding Jig Set (R5 - R40)

This modular guiding system is designed for woodworkers and makers who demand perfection in every detail. It allows you to create flawless, burr-free curved edges on panels by guiding the router bearing smoothly and with ultra-stability.

Project Highlights

- **Geometric Versatility:** The kit features 8 different radii, from **R5 to R40 in 5 mm steps** (R5, R10, R15, R20, R25, R30, R35, R40), covering virtually any furniture or design requirement.
- **Secure Bi-Directional Clamping:** The black base features slotted guides that allow you to tighten **clamps in both directions**

(horizontally or vertically). This flexible locking system completely eliminates vibrations, prevents the jig from shifting, and ensures clean cuts in total safety.

- **Quick Puzzle-Style Interlocking:** As shown in the "0.jpg" file, the special geometric coupling between the green templates and the main body ensures lightning-fast radius changes while maintaining a solid joint completely free of mechanical play.
- **Zero Workshop Clutter:** No more scattered templates on your workbench. The project includes a **dedicated display rack** to keep the entire set organized, visible, and ready for action.

Recommended 3D Printing Parameters

To ensure the jig easily withstands clamp pressure and router stress, the following configuration is highly recommended:

Ideal Filament: PETG Compared to PLA, PETG offers superior impact resistance and the mechanical toughness required for functional workshop tools.

- **Layer Height:** 0.20 mm or 0.28 mm (ideal for cutting down print times on larger parts like the base and organizer).
- **Wall Loops:** At least **3 - 4 perimeters** to reinforce the guide tracks and clamping slots.
- **Infill:** **20% - 25%** with structural patterns (such as Gyroid or Grid).
- **Supports:** Not required; the parts are optimized to print directly on the build plate.

04/07/2026: I added the imperial version (inch) and put the texts engraved instead of embossed as suggested by [@JUAN_3982459](#), whom I thank for the feedback.

Model files

body.stl

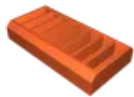


templates-metric.stl





templates-imperial.stl



collector.stl

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