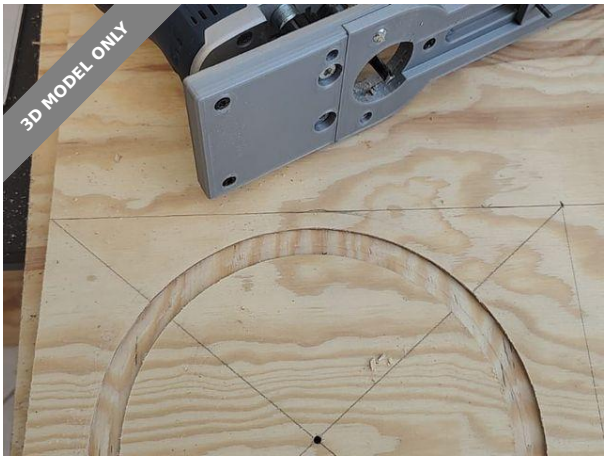

Circle router jig for Bosch GKF 12V-8

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VIEW IN BROWSER

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Summary

I designed a router jig for milling a circles for Bosch GKF 12V-8. It allows to mill circles and radius slots into wood.

Hobby & Makers > Tools

Tags: bosch circles jig mill radius router slots wood

Hello,

A Bosch GKF 12V-8 is a little bit challenging for milling a circular holes. None of the jigs for circles fits it. Therefore, I designed my own jig. The input requirement was a wide range of radius - usable for small tweeters and 15" woofer without any modification or new parts. Also, should be printable on 220x220mm buildplate and stiff enought to prevent wobbling.

The **distance** between center pin and the center of the spindle is **min. 52mm max. 454mm (+/- 1mm).** The exact diameter is related to mill size so its better to write a spindle-pin distances.

The construction consist of 4 parts :

Jig - back - (**circle jig_plate2.stl**)

jig - front - (**circle jig_plate1.stl**)

jig - nut - (**circle jig_plate1.stl**)

jig - pinholder - (**circle jig_plate1.stl**)

For circle jig_plate1.stl must be generated a support touching a builtplane. For circle jig_plate2.stl is not necessary.

The original pad on router is attached via 5 pcs Torx screws. The jig is designed to use those screws for attaching to the router.

For connection pinholder and nut **you will need** :

1pcs M6x25 metric hexbolt

1pcs M6 nut

I used broken 3,125mm mill as a center pin. Feel free to use any pin with 3mm diameter.

The pinholder can be used in three setups :

1) pin in a hole closer to curved end - facing towards spindle - allows to mill small radius (approx. 48mm) to medium size radius (approx. 280mm)

2)pin in a hole closer to curvedend - facing towards outside - allows to mill medium radius (approx. 103mm) to medium size radius (approx. 220mm)

3)pin in a hole closer to plain end - facing towards outside - allows to mill radius (approx. 118mm) to big size radius (approx. 235mm)

Printing settings :

0,4mm nozzle

0,25mm layer height

10% infill

Silver PLA Devil Design

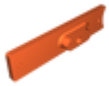
5 Perimeters

3 Solid layers TOP/BOTTOM

Model files

circle-jig_plate1.stl

circle-jig_plate2.stl



circle_jig_pinholder.stl

circle-jig_back.stl

circle-jig_front_part.stl

circle-jig_nut.stl

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