



Drill Press Square Tool for Harbor Freight or Chinese Dial Indicator



Inhibit

[VIEW IN BROWSER](#)

updated 12. 4. 2022 | published 3. 12. 2019

Summary

BOM for non 3D printed parts: Harbor Freight or Chinese Dial Indicator (really any indicator with a roughly 8mm shaft)...

[Hobby & Makers](#) > [Tools](#)

Tags: [dialindicator](#) [drillpress](#) [square](#) [guage](#)

BOM for non 3D printed parts:

Harbor Freight or Chinese Dial Indicator (really any indicator with a roughly 8mm shaft)

1/2" Round Bar Stock of desired length

Drill Press

YouTube Video and article: <https://pcburn.com/drill-press-squaring-with-3d-printed-tool/> <https://www.youtube.com/watch?v=J8aucI280jo>

This is a simple drill press square using dial gauge indicator for your drill press table

I made it in an attempt to get my old Craftsman drill press something like square with parts I had on hand. Which were, in this case, a 3D Printer, a

(digital) dial indicator in the dimensions of the Harbor Freight model, and some 1/2" round steel bar stock.

I couldn't find anything fitting the bill for this on Thingiverse already. If there is post up a link!

Also, I may make an even simpler tool that uses a long 1/4" bolt with a printed part to keep it 40 degrees angled off the half inch round bar stock (which you then rotate to find square) if anyone's interested.

Find more of my work at <https://pcburn.com>

Print instructions Category: Machine Tools Print Settings

Printer Brand: Prusa

Printer: i3 MK3 MMU 2

Rafts: No

Supports: No

Resolution: .2mm

Infill: 25%

Filament: Generic PETG Purple

Notes:

Worked great with the PETG for rigidity. The thickness of the piece helps hold everything steady and prevent deflection.

How I Designed This

Sketchup, in this case, although you could use anything you're comfortable with that'll produce the through-holes reliably.

Model files



drill_squaring_device-harbor_freight_or_chinese_d.stl



drill_squaring_device-harbor_freight_or_chinese_d.skp

[Find source .stl files on Thingiverse.com](#)

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition