

# Simple diameter measure



Known

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## Summary

Simple diameter and linear measure



0.34 hrs



3 pcs



0.15 mm



0.40 mm



PLA  
PET



2 g



Prusa  
MK3/S/S+

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Have you ever wanted to measure the diameter of a cylinder, only to find yourself without a caliper and with only a ruler at hand?

This simple diameter measure can be used as an ordinary measure or can be wrapped around to measure the diameter. The diameter can be read out directly and there is no need to calculate by **dividing by  $2\pi$**  as when using a tape measure.

Two-color printing makes the numbers clearly readable.

There are two types of measuring: a **rough** measuring measure with a raised start (diameter-measure-L230mm.stl) and a measure with a raised end and a **minor thick** (diameter-measure-L230mm-minorLH-BE.stl).

The diameter measure with "D" is for diameter readouts and the one without "D" is for straight rulers.

The length is 230 mm, but **you can print on the Prusa Mini** if you place them diagonally.

PLA is fine, but PETG is softer and easier to wrap around. I recommend to use PETG.

The filament used is less than 1 meter. It is also useful for using up remaining filament.

This design was inspired by Extrutim's design "One For All | Cable Strap | Print In Place Clamp" ( <https://www.printables.com/model/122320-one-for-all-cable-strap-print-in-place-clamp> ), thanks Extrutim.

Enjoy, wrapping and measuring diameter!

## Model files



**diameter-measure-l230mm-minorlh-be.3mf**

☐ with minor thick



**diameter-measure-l230mm.stl**

☐ rough measuring



**diameter-measure-l230mm.3mf**

☐ rough measuring



**diameter-measure-l230mm-minorlh-be.stl**

☐ with minor thick

# Print files



## diameter-measure-l230mm\_015mm\_petg\_mk3s\_21m3c.gcode

⊗ PET    📏 0.40 mm    ≡ 0.15 mm    ⌚ 0.34 hrs    ⚖️ 2 g    🖨️ Prusa MK3/S/S+

📄 rough measuring, for PETG



## diameter-measure-l230mm-minorlh-be\_015mm\_pla\_mk.gcode

⊗ PLA    📏 0.40 mm    ≡ 0.15 mm    ⌚ 0.37 hrs    ⚖️ 2 g    🖨️ Prusa MK3/S/S+

📄 with minor thick, for PLA



## diameter-measure-l230mm\_015mm\_petg\_mk3s\_21m2c.gcode

⊗ PET    📏 0.40 mm    ≡ 0.15 mm    ⌚ 0.34 hrs    ⚖️ 2 g    🖨️ Prusa MK3/S/S+

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