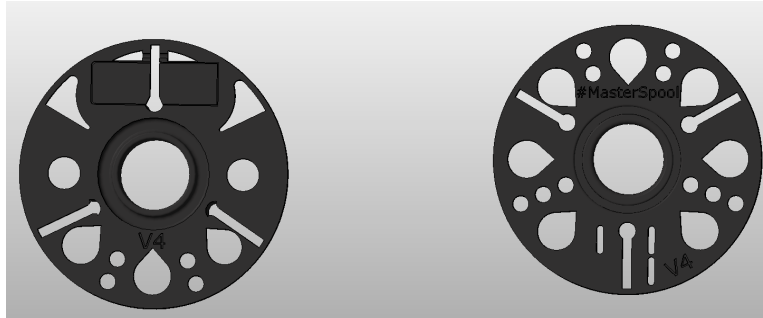


#MasterSpool – V4.0

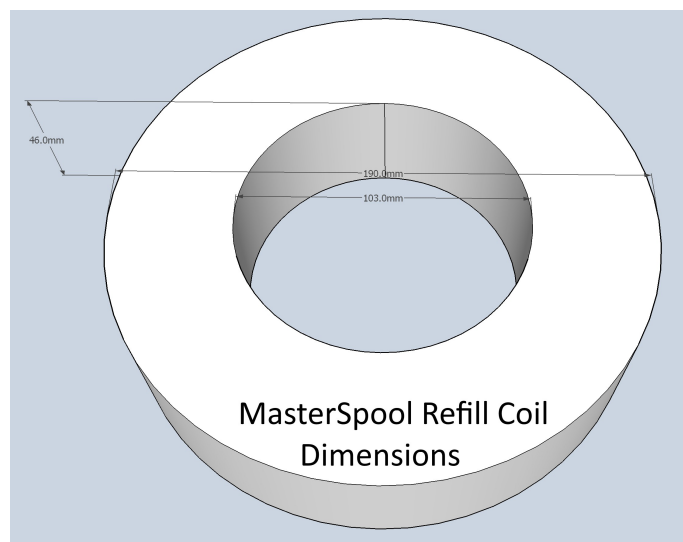
The two part reusable 3D Printing spool for refill filament coils.

Version 4.0 – February 14th 2018



Significant dimensions of the MasterSpool refill system.

- Designed to use 1.75mm or 2.85mm filament (3.0mm also compatible).
- Outer MasterSpool diameter is 198mm Max.
- Width of the outer spool is 5.6mm on each side. (to allow bearing type spool mounts)
- Inner ring diameter for the filament coil is 102mm
- Three channels around the inner ring at 120 degrees – for tie-wraps / zip-ties / straps etc.
- Recommended width of the filament coil is 46.7mm (+/- 0.5mm)
- Inner mounting hole is 52.5mm diameter (to fit standard 50mm/52mm spool holders)



Suggested dimensions for the refill coil to use the MasterSpool holding system.

- Inner refill coil diameter 103mm +/- 1.0mm
- Width of refill coil 46mm +/- 0.5mm
- Outer refill coil diameter –
 - No minimum dimension (depends on required refill coil weight / material type).
 - Maximum dimension 190mm Max (<185mm recommended).
- Start of filament coil end to be ideally positioned half way between two tie-wrap points.
- Recommended tie-wraps / zip-ties or other strap from 2.4mm to 6.0mm wide – ideally a reusable tie-wrap is good for allowing users to remove the coil at any time.
- Ideally vacuum sealed for shipping to user.

Please feel free to design your own MasterSpools or compatible spool mounts for 3D printers, dry boxes, or whatever else you need.

MasterSpool is designed for and with the global 3D printing community.

@RichRap3D