



# Magnetic Bowtie



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updated 26. 4. 2023 | published 26. 4. 2023

## Summary

A printable bowtie attached using magnets for easy bowtie swapping on the go.

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Introducing a 3D printed bowtie that is as functional as it is fashionable. This bowtie features an innovative design with magnets that make it easy to attach and detach from the holder, allowing for quick bowtie swaps on the go.

## Print settings

### Holder

- Height range modifier (lower layer height on the centering pins for smoother finish)

### Bowtie

- Remove top and bottom layers (exposes infill pattern)

- Add more perimeters (creates thicker outline)
- No infill anchors (no visible artifacts)
- Cube modifier (add top and bottom layers in the center to hide the magnet connector)
- Infill of your choice :-)

Feel free to experiment with those settings.

Concrete values of print settings are included in **.3mf** files.

## Assembly

### Holder

Insert the magnet into the holder, then push through the strap. There is no need to glue the magnet.

### Bowtie

Simply glue the magnet inside.

## Non printed material parameters

### Magnet

Diameter	15 mm
Height	2 mm
Magnetic force	~ 1.85 kg

### Strap

Width	8 mm
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## Notes

I included the holder in **.step** format so that it can be easily reused if anyone would like to design his own bowtie that is compatible with the holder.

Buckle for the strap is not included, however they can be usually sourced on the same places as the strap.

I would appreciate any feedback :-)

# Model files



**bowtie.3mf**



**holder.3mf**



**holder.step**

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