

Magnetic IDEX Belt Coupling for World's simplest IDEX 3D Printer



m_IDEX

[VIEW IN BROWSER](#)

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Summary

This is the heart of the Magnetic IDEX 3D printer.

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In my videos I frequently call this coupling “The White Rabbit” .

This coupling is designed for a disc **Neodymium Magnet**
Grade **N42SH** (1/4" dia. x 1/8" thick) Max Operating Temp: 302F (150°C)

For more information: [Google Sheets BOM](#)

Print both parts in ABS.

UPDATE May 2024:

- Added v2.2
- Use red coupling for X axis with 1/4 x 1/8" magnet
- Use yellow coupling for Y axis with 1/4" x 1/4" magnet
 - Y axis coupling designed for Akula motion system.

White Rabbit in action:

Happy printing!

Model files



V2.2

2 files

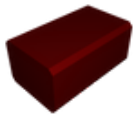
magnetic-idex-betl-couplings-x-and-y-axis-v22.3mf

magnetic-idex-betl-couplings-x-and-y-axis-v22.step

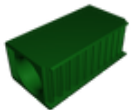


V1

4 files



the-white-rabbit-outer-sleeve.3mf



the-white-rabbit-magnetic-idex-belt-coupling.3mf

the-white-rabbit-outer-sleeve.step

the-white-rabbit-magnetic-idex-belt-coupling.step

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