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Magnetic Ball Joint Rod Ends

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Located at: <http://www.youmagine.com/designs/magnetic-ball-joint-rod-ends>

Excerpt:

These are designed to work with 3/8" balls, 0.230" diameter carbon fiber rods, and cylindrical magnets which are 10mm in diameter and 15mm high.

Description:

<p>This can be printed with a layer height of 0.2mm or 0.1mm.</p> <p>Use a shell thickness of 2mm, so that all of the walls will be printed with concentric circles, instead of back-and-forth infill.</p> <p>For PLA, use a relatively low temperature, like 185C, so that the overhang inside of the ball bearing sockets come out as cleanly as possible.</p> <p>I use a 3/8" ball end mill to gently clean out the ball bearing sockets.</p><p>Note: I have to print out at least two of these at a time, to get the correct dimensions. I usually print out a dozen of the ball bearing holders, followed by another of the rod ends -- ie. I usually don't mix them in one print run.</p><p>I use these with my magnetic effector: https://www.youmagine.com/designs/kossel-plus-magnetic-effector<p>And magnetic carriages: https://www.youmagine.com/designs/kossel-plus-magnetic-carriage--2<p>Contact haydn.huntley@gmail.com if you need an inexpensive source for the ball studs or magnets.</p>

If you can, please use the online documentation found at <http://www.youmagine.com/designs/magnetic-ball-joint-rod-ends> because those may have been be updated. Also, there you can interact and provide praise and/or feedback.