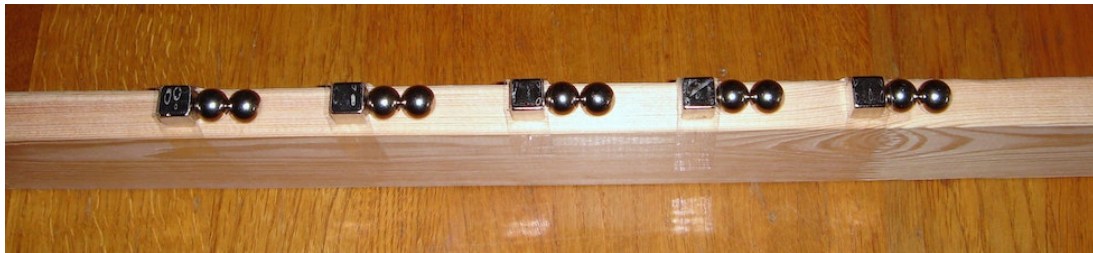


Application No. 148: Gauss cannon

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For shooting off steel sphere - very impressive!



In order to shoot off small sphere magnets, I built a so-called Gauss cannon. It is also known as a Gauss pistol or Gauss gun.

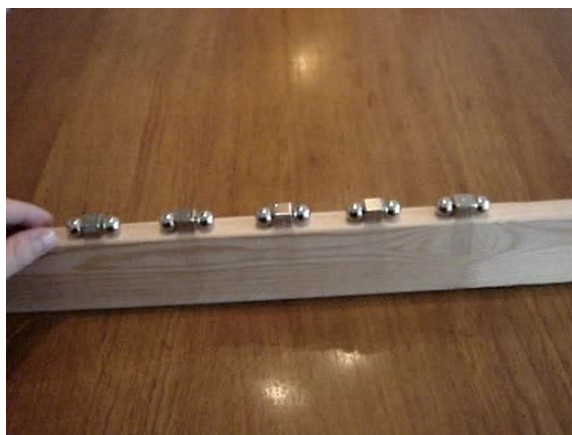
Materials needed

- Wooden slat
- Adhesive tape
- 5 cube magnets W-12-N (www.supermagnete.es/eng/W-12-N)
- 11 steel balls ST-K-13-N (www.supermagnete.es/eng/ST-K-13-N)

Instructions for building a Gauss cannon

To build a Gauss cannon, you will need to mount several W-12-N (www.supermagnete.es/eng/W-12-N) cube magnets (alternatively block magnets) in a row to a stiff board or a rail. It's best to attach the magnets so they attract each other; if the magnets repel each other, they tend to twist under the adhesive tape.

Next, place two steel balls 13 mm (www.supermagnete.es/eng/ST-K-13-N) loosely behind each magnet. To trigger the shot with the Gauss gun, place another steel sphere just before the first magnet (the left one in the pictures). The video attached below shows how the homemade Gauss cannon works.



Video

Find a construction manual and slow-motion footage of the Gauss canon in action here:

Due to your current cookie settings, you cannot start the video. With consent to the data privacy statement, you can view this content.

I agree that external content will be displayed to me. This allows personal data to be transmitted to third-party platforms. Find out more in our Data Privacy Statement (www.supermagnete.es/eng/data_protection#10-verwendung-von-sozialen-medien-videos).

Nicht einverstanden

Einverstanden

Note from the supermagnete team: A similar application is the project "The Launching Pad" (www.supermagnete.es/eng/project68).

Articles used

W-12-N: Cube magnet 12 mm (www.supermagnete.es/eng/W-12-N)
ST-K-13-N: Steel balls Ø 12,7 mm (www.supermagnete.es/eng/ST-K-13-N)
ST-K-08-N: Steel balls Ø 8 mm (www.supermagnete.es/eng/ST-K-08-N)
ST-K-10-N: Steel balls Ø 10 mm (www.supermagnete.es/eng/ST-K-10-N)
ST-K-20-N: Steel balls Ø 20 mm (www.supermagnete.es/eng/ST-K-20-N)

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