

Application No. 587: Levitation in an aluminium S

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A cube magnet is levitating for days

I am a huge fan of your existing application on the topic of "Levitation" (www.supermagnete.de/eng/projects/levitation). Now, I built myself such a levitation device.

Material needed:

- 1x CSN-20 (www.supermagnete.de/eng/CSN-20)
- 1x CSN-25 (www.supermagnete.de/eng/CSN-25)
- 1x W-05-N (www.supermagnete.de/eng/W-05-N)
- 1 piece aluminium 250 x 20 x 2 mm
- Several **pyrolytic** graphite plates
- Super glue

Instructions

Glue the graphite plates together with super glue in way that you get two pieces of 20 x 30 x 4 mm.

Bend the aluminium into a S shape. At the narrowest point the distance is about 16 mm, between the upper bow about 50 mm.

Glue the graphite plates on the top and the bottom of the narrowest point.

Clamp the pot magnets directly above the graphite plates onto the aluminium.

Move the cube magnet between the graphite plates.

Alter the S shape and the position of the pot magnets until the cube starts to levitate. Once there, it levitates for days and when you blow at it, it keeps turning around its own axis!

YouTube Video: www.youtube.com/watch?v=o7nMa-NJ9HM

Articles used

1 x CSN-20: Countersunk pot magnet Ø 20 mm (www.supermagnete.de/eng/CSN-20)

1 x CSN-25: Countersunk pot magnet Ø 25 mm (www.supermagnete.de/eng/CSN-25)

1 x W-05-N: Cube magnet 5 mm (www.supermagnete.de/eng/W-05-N)

1 x ZTN-20: Pot magnet with cylindrical borehole (www.supermagnete.de/eng/ZTN-20)

1 x ZTN-25: Pot magnet with cylindrical borehole (www.supermagnete.de/eng/ZTN-25)

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