

TochiMag



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Summary

The relaxing toy that uses magnets.



4.99 hrs



3 pcs



0.20 mm



0.40 mm



PET



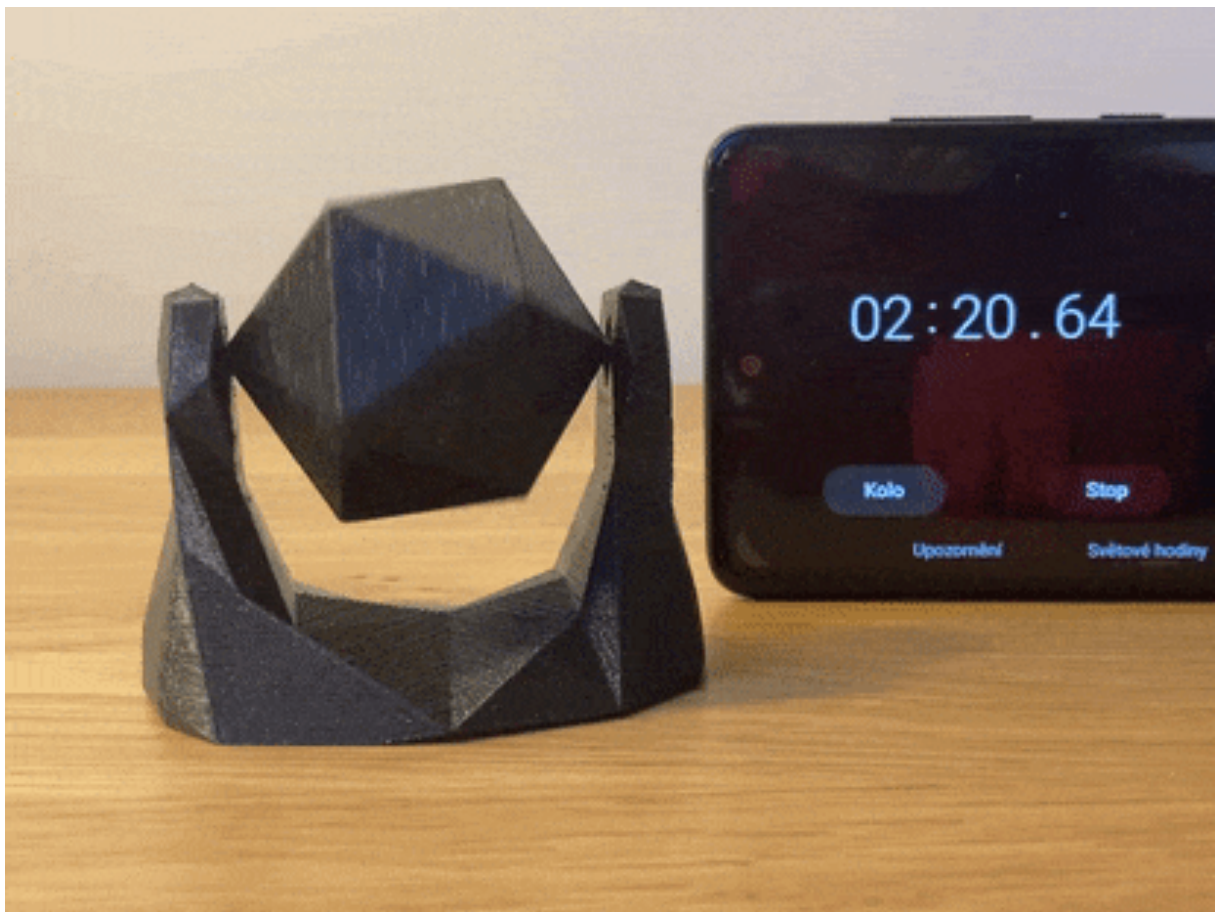
52 g



Prusa
MK3/S/S+

[Household](#) > [Office](#)

Tags: [magnet](#) [fidget](#)

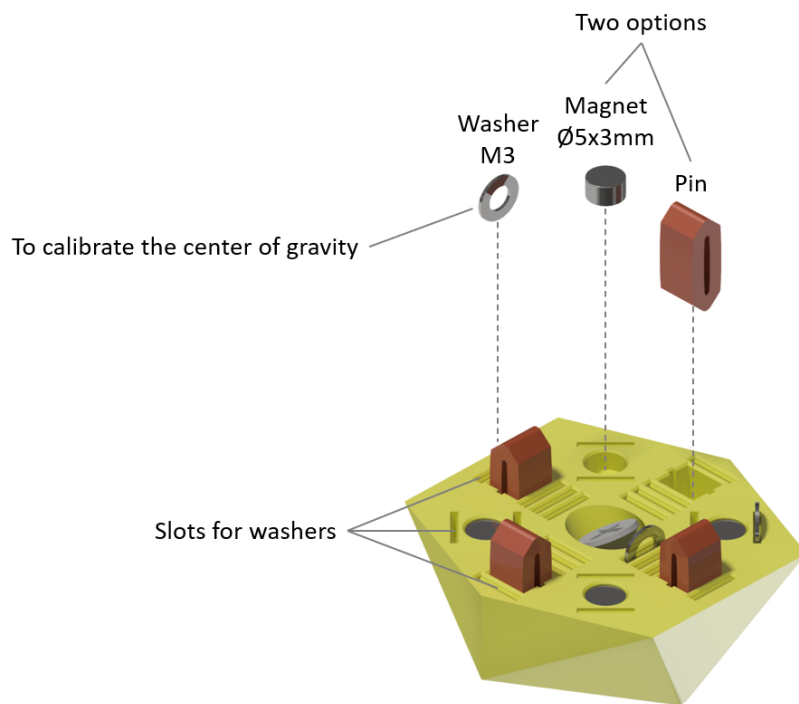


User records of rotation time:

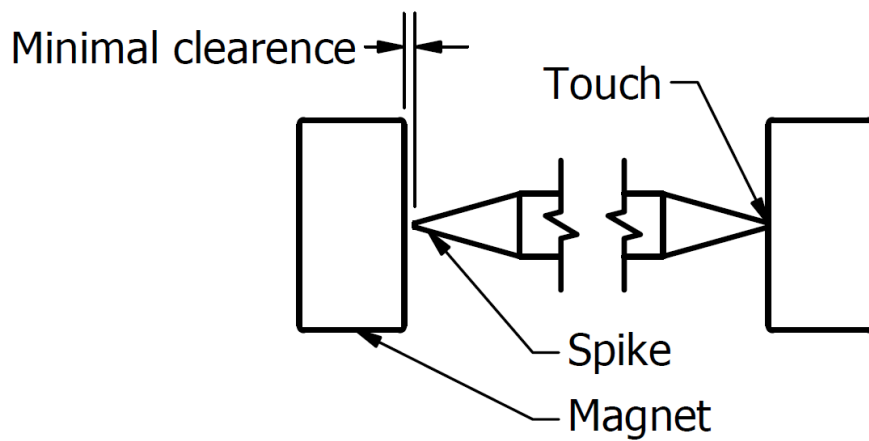
1. @Kocyns_526387 6:10
2. @heartbreakballer 5:12
3. @Robert_143020 2:55
4. @VolkervmLOGICnet 2:30

UPDATE:

- Usable magnets: $\varnothing 10 \times 6 \text{ mm}$, $\varnothing 8 \times 6 \text{ mm}$
- Add **12hran-uni.stl**:

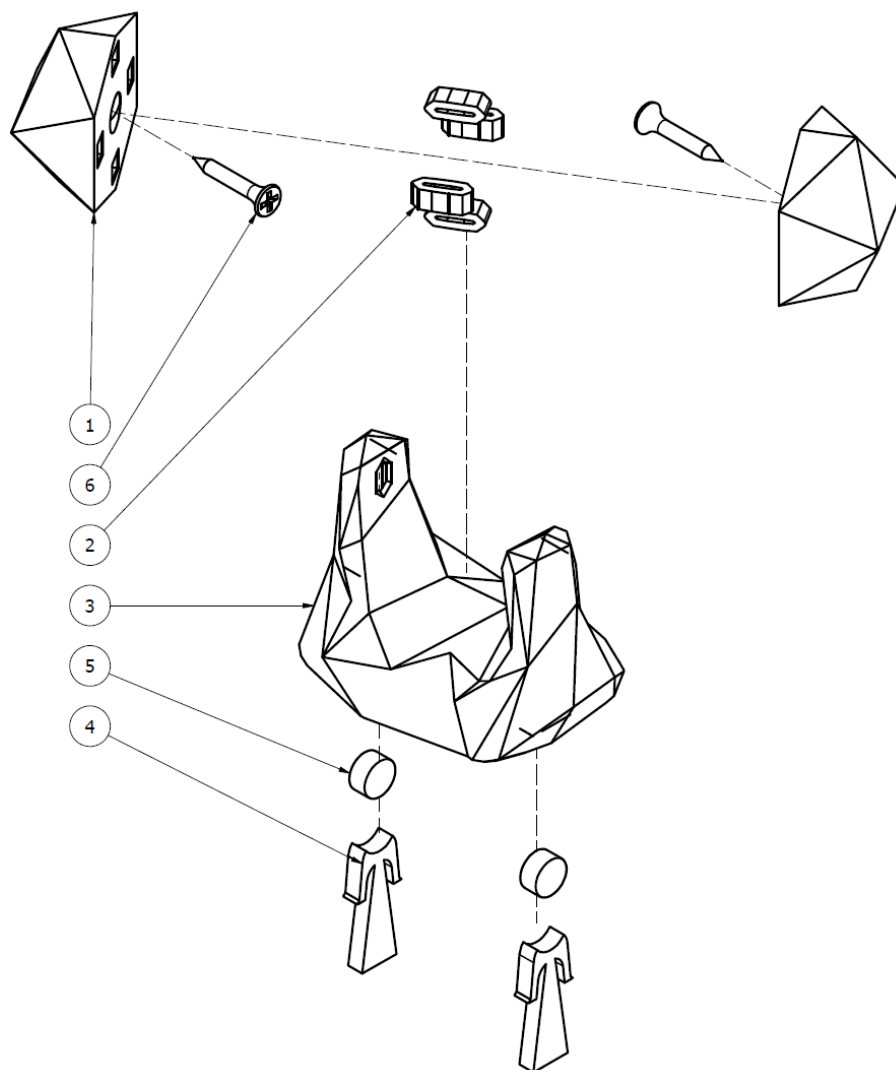


Video: Principle/Ideal state of the toy:



For best results, there must be minimal space on one side between magnet and spike.

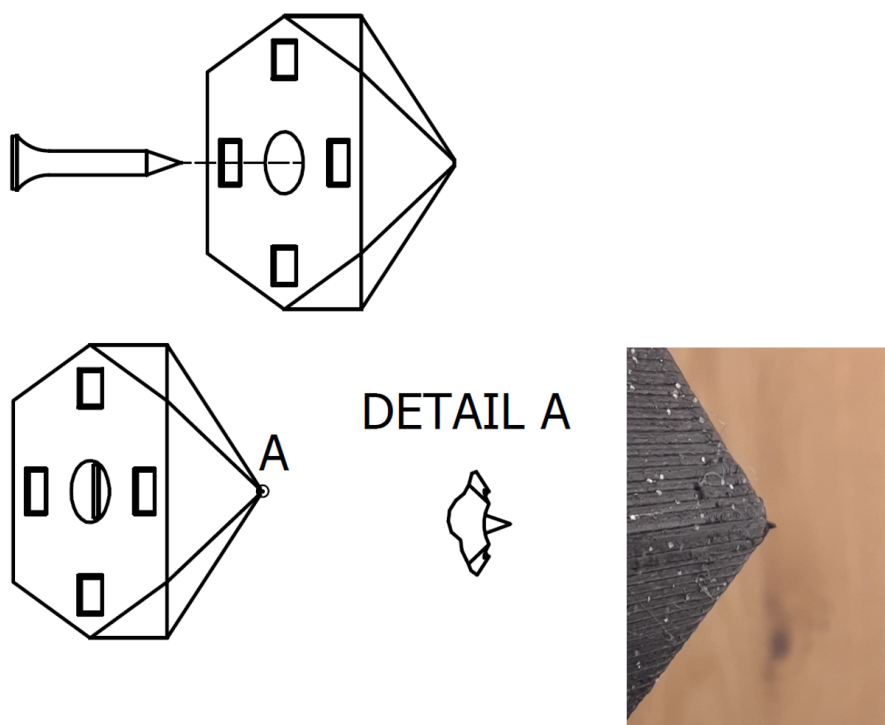
Assembly:



Printed parts/ Purchased parts			
Item	File	Qty	Description
1	12hran.stl	2	cube
2	klinek.stl	4	pins (1)
3	StojanV1_D10x5.stl	1	holder
4	cvok.stl	2	for fixing magnets
5	Magnets	2	ø10x5mm
6	Drywall screws	2	ZH 3,5x25mm

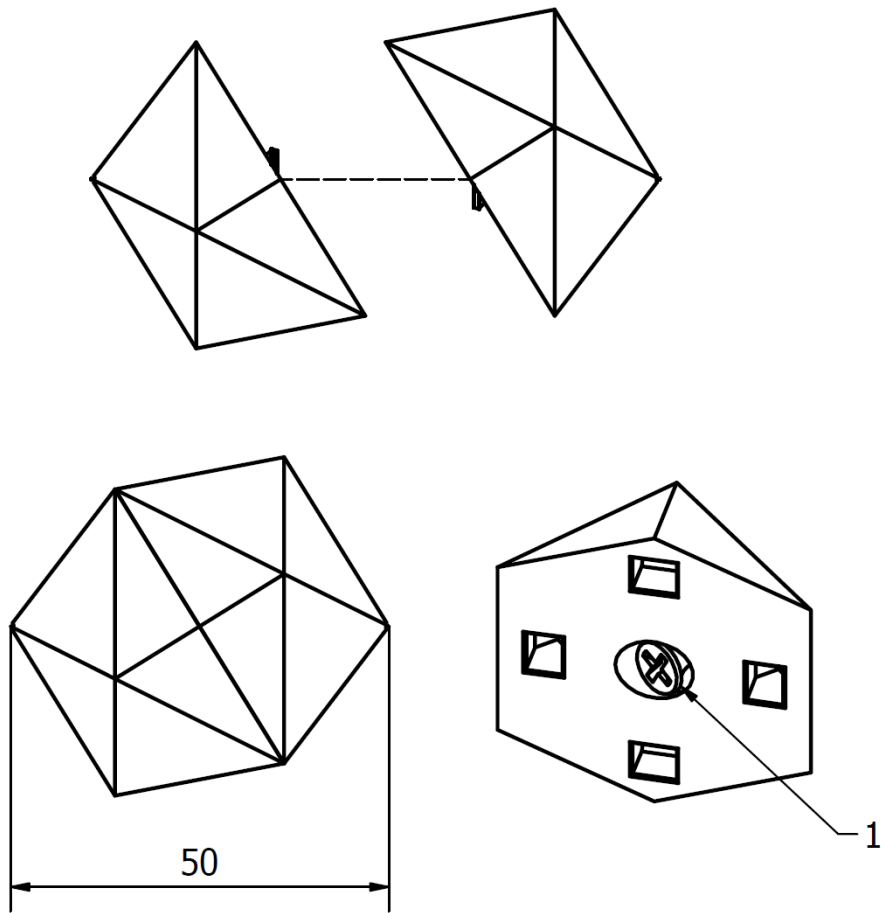
1. If the pins are too small or large, reprint them with a different size.

Step 1:

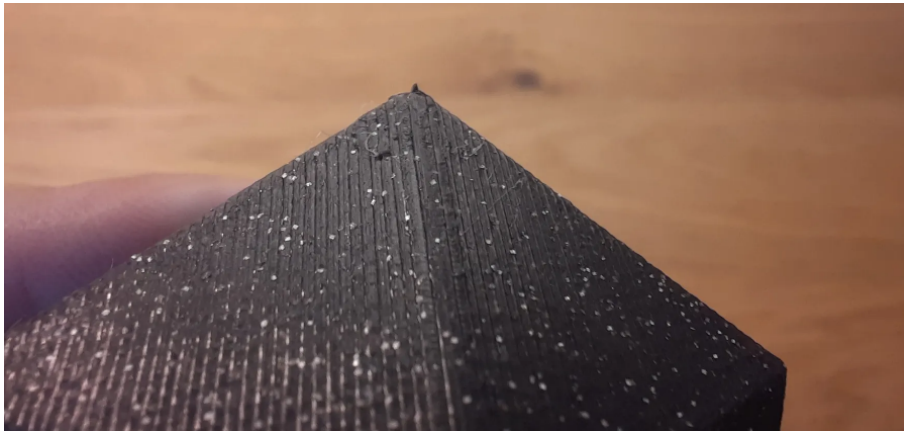


Screw in the screw until you see a spike (see detail A).

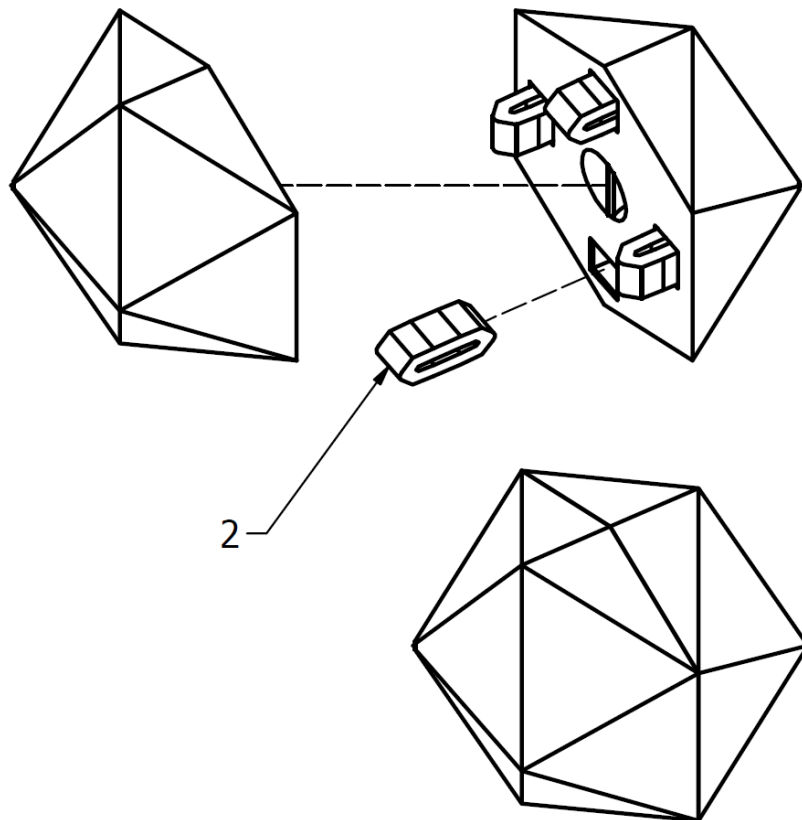
Step 2:



Assemble it as shown above, **but without pins!** Then measure dimension between spikes and calibrate them to 50mm with screws (note 1). If you don't have Vernier Calipers, use technique „baj voko“ according to picture below:

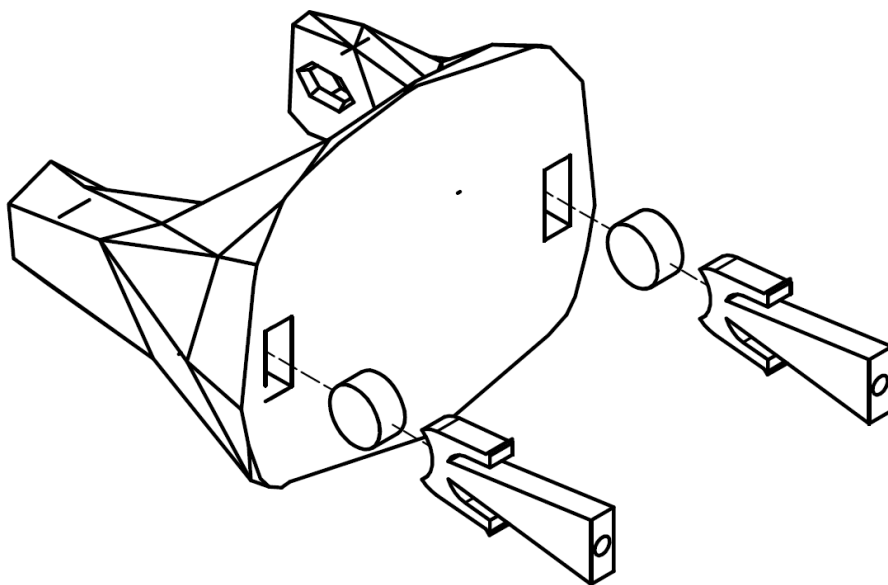


Step 3:

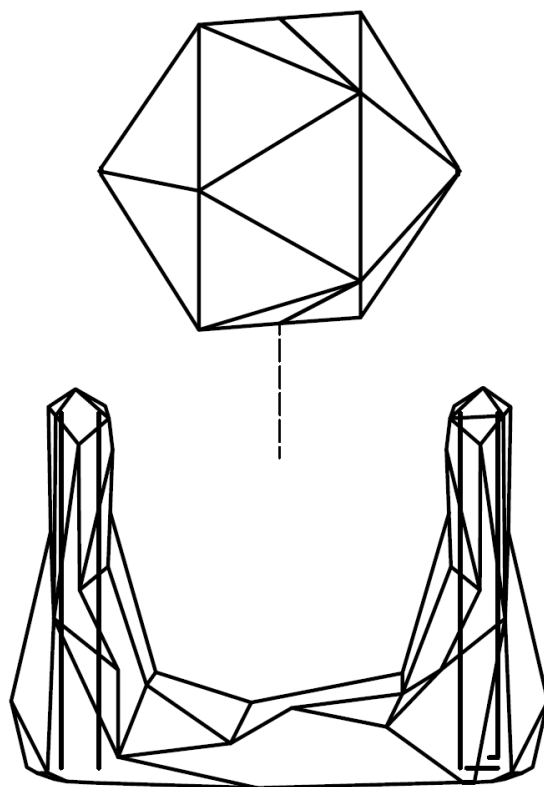


After calibration insert the pins (2) and assemble it. If the pins are too small or large, reprint them with a different size.

Step 4:



Step 5: Insert the cube and let's spin!



Model files



12hran.stl

☐ R1



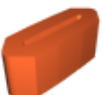
12hran-uni.stl

☐ magnet: D5x2-3mm



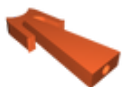
12hran_verticalv6_uni_2.stl

☐ magnet: D8x2-3mm



klinek.stl

☐ R1



cvok.stl

☐ R1



stojanv1_d10x5.stl

☐ For magnet ø10x5mm, typ1



stojanv2_d10x6.stl

☐ For magnet ø10x6mm(2x3mm,3x2mm etc.)



stojanv2_d8x6.stl

☐ For magnet ø8x6mm(2x3mm,3x2mm etc.)

Print files



12hran_02mm_petg_mk3s_1h56m.gcode

PET 0.40 mm 0.20 mm 1.93 hrs 22 g Prusa MK3/S/S+



cvok_klinek_02mm_petg_mk3s_26m.gcode

PET 0.40 mm 0.20 mm 0.44 hrs 4 g Prusa MK3/S/S+



stojanv1_d10x5_02mm_petg_mk3s_2h37m.gcode

PET 0.40 mm 0.20 mm 2.62 hrs 26 g Prusa MK3/S/S+

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