



## Universal 600ml syringe for food, cement, play dough, anything



Flex

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## Summary

Replaces those icing bags that have no strength to force contents through

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Highish powered food/anything syringe for a 600ml PET bottle.

Designed this to replace the feeble icing bags that aren't strong enough to force stuff like mashed potato through small opening.

This was my first multi component build and before finishing realised there was better alternative. Built for a 600ml straight sided water bottle.

Use rubber bands for the springs and need to play around with their tension to get the desired amount of push/slip. Note, compared to metal off the shelf systems this system is much weaker so if you really want extruding power better to go with other options shown.

The plunger fits my bottle samples nicely but there seems to be slight variations in bottle diameters so you may need to adjust size of plunger. Either by sanding, adding tape or adjusting in Fusion360 etc. Originally

thought would need to add Orings/silicon seal on plunger but very small losses around side.

I stopped fiddling with this design as realised there was many advantages just using an already existing gun and adapting that to suit a 600ml or litre bottle. I did make original version using springs but these are harder to find/adjust so went with rubber band version.

This design uses 2 x 30mm x 3mm and 2 x 16mm x 3mm piano wire as hinges for the trigger. You have to hammer fit them and seems to hold together well without any kind of glue.

## Model files



**body-left-v57.stl**



**pusher2v2.stl**



**rod-one-piece.stl**



**plunger.stl**



**syringe-v3.stl**



**trigger-left.stl**



**trigger-center.stl**

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**stopper-for-spring.stl**

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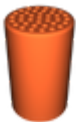
**nozzle6-v2.stl**

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**trigger-right.stl**

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**nozzle4-v3.stl**

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**nozzle5-v4.stl**

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**nozzle1-v2.stl**

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**stopper-for-rubber-band.stl**

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**nozzle2-v2.stl**

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**nozzle3-v3.stl**

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body-right-v57.stl

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