



Saucer 001



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updated 10. 10. 2022 | published 10. 10. 2022

Summary

Saucer shaped model rocket using vase mode (sort of). Read description.

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I wanted the wall of the saucer to be very thin so I tried vase model. The problem with vase mode is it only prints exterior walls and I needed interior bulkheads for the launch rails and rocket motor. The first few photos show the slice in vase mode. The next few photos show the slice w/o vase mode checked. I thought the final product was exceptional. The engine cavity was designed for an Estes 1/4A3-3T engine. I also designed a prototype engine to the Estes specifications. The engine casing and engine load can be seen in the last few photos. **WARNING:** This rocket has not be field tested or swing tested and is probably very unstable. Fly at you own risk! **CAVEAT:** Although the photos show “no support”, print with “support on build plate only”. Also, although I have included the project file, I recommend printing the saucer by itself with “0%” infill and the engine casing and load with “100%” infill. The final weight of the casing and load should be very close to the weight of the 1/4A3-3T. One final note: The launch lugs are a little snug on a 1/8" launch rail. You may have to ream them a bit. The next version will use a 3.5mm hole which tested quite well.

Model files



saucer_10.stl



1d4a3-3t.stl



1d4a3-3t-load.stl



saucer_10.3mf

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