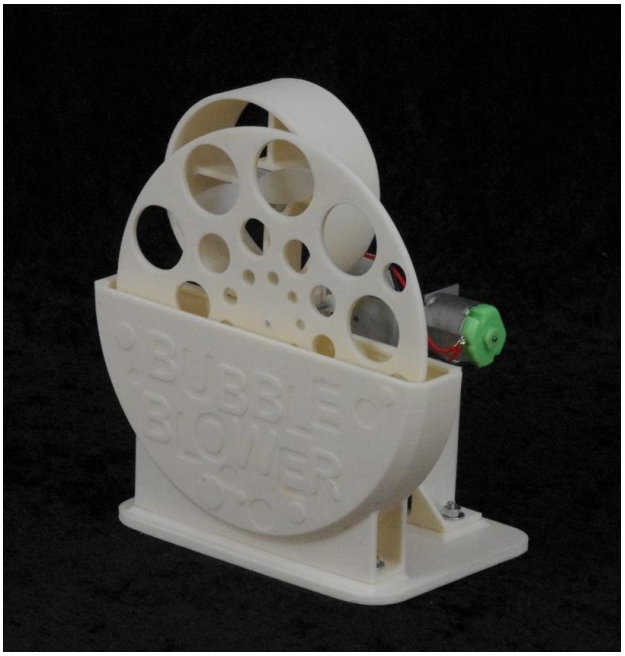
3D PRINTED *BUBBLE BLOWER*

Designed and made by Peter Aleksejevs



Printing time for the quality that I used was really huge - probably a couple of days, not including reprints etc The wall thicknesses that I use are typically 2.4mm, which means that there are 2.4m/0.4mm(print width) = 6 passes of the nozzle.

Print times from the G-code generator are:

Base:	6h 23m
Container:	13h 35m
Disk 1:	4h 37m
Disk 2:	3h 57m
Disk3:	1h 33min (you have this one)
Disk 4:	2h 58m (needs hub)
Disk 5:	1h 16m (needs hub, you have this one)
Disk Hub:	3h 39m (you have this one, quantity of 5)
Gearbox Support:	4h 29m
Propeller Support:	8h 52m

I printed the components at maximum resolution and 25-30% fill. You can probably halve the print times for standard resolution and half that again for draft resolution.

I have given the STL files to Scorpio Technology, so that they are available to anyone who would like to use them. Depending on demand and feedback, I am considering reworking some of the components so that they print a bit faster.

The following are links for the video clips I made for the Bubble Blower.

Part 1 - Concept: https://youtu.be/2BPwZvJSOvw
Part 2 - Model: https://youtu.be/JdhSNgwOoFA
Part 3 - Redesign: https://youtu.be/fBOOlgPqsKs
Part 4 - Assembly: https://youtu.be/J8LDNB0MLps

For Part 4 of the videos, my aim was to use the minimum amount of tools and equipment. With regards to soldering, I have found that the method I use is quick enough for production, though I usually hang the wires over the edge of a small (approx. 3” square) piece of melamine - for larger wires (i.e. 240V power) I sometimes use a small bench vice.