



Weight buckle for knitting machine



jhitesma

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Summary

I've been having a lot of fun with a 3D printed knitting machine and needed a way to hang weight from the work.

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I've been having a lot of fun with a 3D printed sock knitting machine I made recently. So far I've just been using old socks full of BB's as weights inside the socks as I knit them. But I'm starting to experiment with a ribber and that means not having access to the inside to adjust weights - so I wanted a way to hang weights on the knitting from the outside.

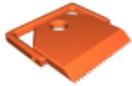
I've seen a number of metal machines use a buckle like this so I decided to try printing one.

It requires a piece of 1/8" or 3mm metal rod about 60mm / 2.25" long to assemble. I considered making it with a print in place hinge - but since it needs to support a couple of lbs of weight I decided to use a metal pivot. Plus I had extra 3mm rod on hand from building my machine.

It seems to work quite well - though I think I'd make it about 1/2" wider and maybe a bit taller if I was to redesign it. For now it's usable and I'll see how I like using external weight before I decide if I need to redesign it.

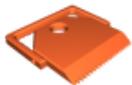
Prints with no support in about an hour at .20 layers. Probably fine to print with thicker layers to do it faster...honestly I don't even think the teeth are really even necessary based on how it pinches the knit fabric and locks on when used.

Model files



buckle_for_printing.3mf

Exported from prusaslicer with print settings ready to go.



buckle-v1.3mf

Exported from Fusion



buckle-v2.step

STEP file if you want to modify it.



buckle-v2.f3d

Fusion source if you want to modify it.

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