



Fall is looming !! The weaving loom



The Rookie

[VIEW IN BROWSER](#)

updated 1. 2. 2026 | published 1. 2. 2026

Summary

Tabletop loom machine that doesnt need support it is included in the build. Link in description for assembly !!!

[Hobby & Makers](#) > [Tools](#)

Tags: [knitting](#) [machine](#) [knit](#) [loom](#) [autumn](#) [fall](#)
[automne](#) [looming](#) [tisser](#)

Thank you for making my 3D model part of the short list for the Printables Award 2025 TY for your support ! Fingers crossed !

I hope lots of people will have fun with this machine because i sure did haha

For the base if your printer bed is not big enough (like mine) I have cut both side panels in the slicer with a dovetail at 20 degree. See picture

1. 4 Walls
2. 20% infill
3. Lever Housing need to be printed on the side like an L
4. Big beams is labeled on the side it needs to be printed
5. Number of individual parts to print is wrote on each parts title

6. **Both shafts need to be insert before bolting it to the Base**
7. **you can either use filament or nylon threads to tie the pull bar to the tethers**

Needed to complete the build:

1. M4 heated insert 30 total -> <https://a.co/d/gPM3xbB>
2. M4 bolts 12mm for the base x20 -> <https://a.co/d/9hr39wR>
3. M4 bolts 12mm for the gentry x10
4. **2kg of pla** (with left over in case of failure)
5. As a retainer for the pulley pin use a short piece of 1.75mm PLA or PETG filament as a cutter pin and fold both end to secure
6. **No support needed !**
7. **Brim needed for pins and beams !**
8. Small elastic band for hair or to make bracelet x2 for the locks
9. A nice pair of pliers for the Lever housing supports (tight fitted supports)
10. Some Nylon or Polyester threads for the gantry shafts

LINKS : M4 inserts and bolts used for the design : <https://a.co/d/gPM3xbB>
<https://a.co/d/gPM3xbB>

I used my daughter elastics for bracelet looming <https://a.co/d/3l6qc0A>
probably available in every dollar store

I like a tight fit (who doesnt) so you might need to **sand down the edges of brimed parts**

For the cables use big Nylon or polyester thread **no elastic threads**. Cut a long piece - fold it to equal parts, make a loop and pass it through the back of the lever hole and then over to lock it in place. Push both threads between the roller pin on top and than one on each side. Next is over the pulley and down. Tie a tight knot on the shaft eye below.

HAVE FUN AND SEND PICS PLS !!!

Edit :

1. I have **resized the pull bar** since it was 20mm shorter for some reason sry my bad and added a picture for the retainer pin filament
2. Sorry again both shafts+arch+post were a bit too tight so I have ajusted them (I thought i'd checked everything before posting I guess i am human lol)
3. **Pre-cut** for the panels added (for smaller printers) Tested
4. **Pre-cut** for all the cylindrical beams (for smaller printers) **Not tested at your own risk :P**
5. Resized beam cap insert

6. **Pre-cut beam + Support** couldnt not be done in the slicer so I did it in software.
7. Updated Post for more support for the shafts
8. **Adding** a Tether anker so you can use nylon thread to link the Beam to the pull bar. You can print either one im just giving you options
9. Added photos of exploded view and Inserts Location to help for assembly.
10. Thin down lock and sleeve so it is easier for M4 x 12mm it was a bit tight.
11. Video updated more detailed !!! next will be a video of how to set it up
12. Added 2 *.zip files for glued option instead of inserts (not tested - print at your own risk - waiting on test version)
13. Added 3mf file modified Shafts and heedle (beater) for smaller printers like the A1 mini If you print this you need to **set the brass inserts with the U clip on**. The clip has two structural purposes. Melting the U clip and frame together with the brass insert and a bolt to sandwich everything together. M4x10 is needed for that build for the tol part of both shafts and U clip on the Heedle. Not fully tested.
14. Improved Beam+support **for ALL model parts folders**
15. Link for M4 inserts and Bolts

Here is the video for assembly :

Here is a video to help you thread the machine :

Version Française :

Thank for the really cool shorts on Youtube !! "<https://www.youtube-nocookie.com/embed/17v9Cmdqjyk>" start="0">

Here is a video to help you thread the machine :

Version Française :

Thank for the really cool shorts on Youtube !!

Model files

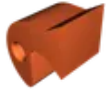


Base Parts

13 files



base-tether-line-6x.stl



base-tether-for-thread-6x.stl



base-roll-over-beam-2x.stl



base-left-panel-1x.stl



base-right-panel-1x.stl



base-mid-cross-member.stl



base-toggle-lock-unlock-2x.stl



base-pull-beam-2x.stl



rear-beam-cap-and-lock-2x.stl



beam-support-2x-new-version.stl

☐ New version with insert on left side not directly in front of the slot for the tethers



base-lock-sleeve-2x.stl



base-toggle-lock-2x.stl

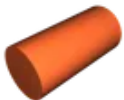


base-toothed-gear-2x.stl



Gantry

10 files



gantry-lever-mid-pin-x1.stl



gantry-pulley-pin-x2.stl



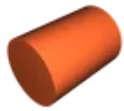
gantry-lever-x2.stl



gantry-pulley-housing-x2.stl



gantry-lever-housing-support-x1.stl



gantry-lever-left-and-right-pin-x2.stl



gantry-roller-pin-x4.stl



gantry-pulley-x4.stl



gantry-arch-x1.stl



gantry-post-x2.stl



Shafts and Tidy

3 files



thread-beater.stl



second-shaft-1x.stl



first-shaft-1x.stl



Tools

3 files



tools-divider.stl



tools-threader-hook.stl



tools-shuttle.stl



Pre-cut Side panels

4 files



right-panel-1xstl_a.stl



left-panel-1xstl_a.stl



left-panel-1xstl_b.stl



right-panel-1xstl_b.stl



Pre-cut Beam + Support

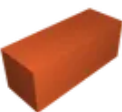
3 files



pre-cut-beamsupport-part-a.stl



pre-cut-beamsupport-part-b.stl



pre-cut-beamsupport-dowel-pin.stl



Pre-cut Roll over beams

3 files



roll-over-beam-dowel-x1.stl



roll-over-beam-x1-a.stl

☐ Print 1 per side - 2 total



roll-over-beam-x1-b.stl

☐ Print 1 per side - 2 total



Pre-cut Mid cross member

3 files



mid-cross-member-x1.stl



mid-cross-member-x1-a.stl



mid-cross-member-x1-b.stl



lever-weaving-loom-2-shafts.3mf

☐ Full Assembly



lever-weaving-loom-full-assembly-tools-glued-version .3mf

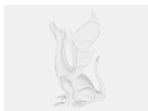
☐ Waiting confirmation - Print at your own risk



smaller-3d-printer-a1-mini-modified-shafts-and-heed... .3mf

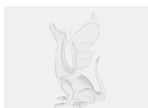
☐ READ THE EDIT PART 13 pls - Waiting confirmation - Print at your own risk

Other files



gantry-glued-setup-not-tested-only-fitment.zip

☐ Waiting confirmation - Print at your own risk



base-glued-setup-not-tested-only-fitment.zip

☐ Waiting confirmation - Print at your own risk

License ©

This work is licensed under a
Creative Commons (4.0 International License)



Attribution—Noncommercial—No Derivatives

- ✗ | Sharing without ATTRIBUTION
- ✗ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition