

## Instructions for 60 stitch version of the Legare Style Circular Sock Machine

Design by JeepingJohnny on Printables.com

Buckle by Christobray on thingiverse.com

Instructions written by Jasmine (teslaknits on instagram)

### Files to print from design:

<https://www.printables.com/model/355228-circular-sock-knitting-machine-for-my-mom-and-you>  
- and <https://www.thingiverse.com/thing:4572159>

Qty			Qty	
1	Cylinder 60 Slots with Ribber Stop.stl		1	Frame Shorter
1	Crank Gear.stl		2	Frame Nut
1	Collar.stl		2	Frame Washer
1	Crank Arm.stl		2	Frame Bolt Front
1	Collar Gear.stl		Qty	
1	Collar Gear Spacer.stl (no holes)		1	CSM_Buckle_Outer.stl
1	Collar Tension Cam.stl		1	CSM_Buckle_Inner.stl
1	Collar Needle Lift Cam A.stl			
1	Collar Needle Lift Cam B.stl			
1	Cylinder Riser 8mm.stl (has holes)			
1	Yarn Carrier Base.stl			
1	Yarn Carrier Guide-slots.stl			
1	Yarn Carrier Stem.stl			

### Hardware Used

	Qty		Qty
M3 nut	7	M5 nut	1
M3 washer	2	M5 washer	1
M3 x 12	2	M5 x 8	1
M3 x 16	2		
M3 x 25	4	M6 nut	1
		M6 washer	1
M4 nut	8		
M4 x 12	4		
M4 x 16	4		

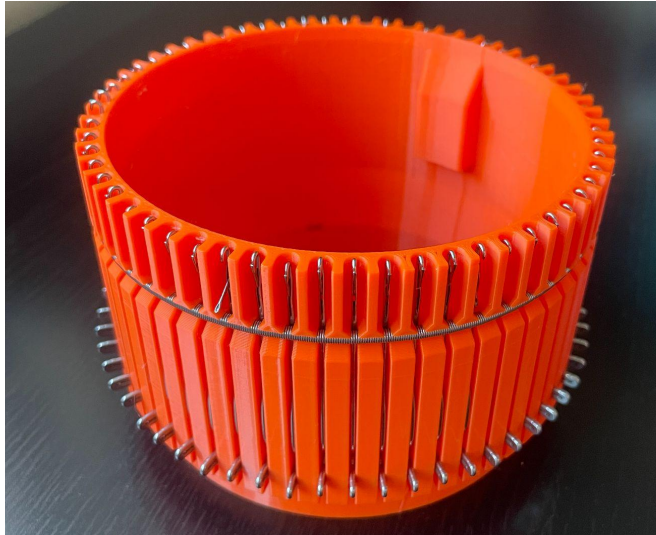
**Extras to purchase:**

Sock Machine Cylinder Springs .110 inches wide	<a href="https://angoravalley.com/sockmachines/accessories.html">https://angoravalley.com/sockmachines/accessories.html</a>
Auto Knitter /Legare Cylinder Needles - 12 gauge	<a href="https://angoravalley.com/sockmachines/accessories.html">https://angoravalley.com/sockmachines/accessories.html</a>
M6 Handle	<a href="https://www.amazon.com/dp/B07MMS9TJS?ref=ppx_yo2ov_dt_b_product_details&amp;th=1">https://www.amazon.com/dp/B07MMS9TJS?ref=ppx_yo2ov_dt_b_product_details&amp;th=1</a>
M8 Flange Shaft Coupling	<a href="https://www.amazon.com/dp/B07FLTKK8B?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details">https://www.amazon.com/dp/B07FLTKK8B?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details</a>
M8 Bearings	<a href="https://www.amazon.com/dp/B07R7PR72H?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details">https://www.amazon.com/dp/B07R7PR72H?psc=1&amp;ref=ppx_yo2ov_dt_b_product_details</a>
M8 Metal rod, 70mm used	Local hardware store

**Assembly Instructions**Cylinder assembly

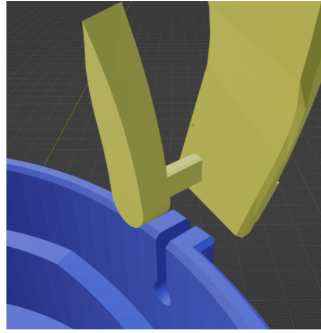
4x M3 nuts in cylinder (those little pockets on the inside)

Place spring around cylinder, then slide in needles

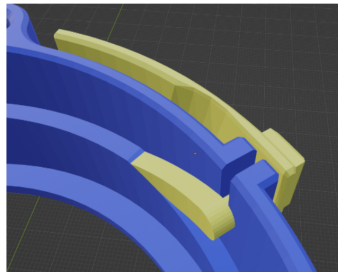


Place cylinder in collar

Insert Collar Needle Lift Cam A and B flat sides up.



**The Key on the Needle lift is the flat center section, it fits in the Needle lift slot when you angle the needle lift and counterweight pointing upward. You push the center down to the hole and rotate it into place. No extra hardware is needed.**



1x M5 nut in collar tension cam

1x M5x8 in collar

Mod: Don't use collar tension cam bolt holder. Use a M5 & M6 washer instead.

#### Collar gear assembly

2x M3 nut in collar gear

2x M3x16 in yarn carrier base

Assemble yarn carrier base on flat side of collar gear

1x M3 nut in yarn carrier base

1x M3x12 in yarn carrier stem

Mod: Add M3 washer instead of collar cam bolt holder

1x M3 nut in yarn carrier stem

1x M3x12 and M3 washer in yarn carrier guide

#### Crank Assembly

4x M4 nut in crank arm

4x M4x16 and flange shaft coupling in crank arm

1x M6 nut and M6 threaded handle

4x M4 nut in crank gear

4x M4x12 and flange shaft coupling in crank gear

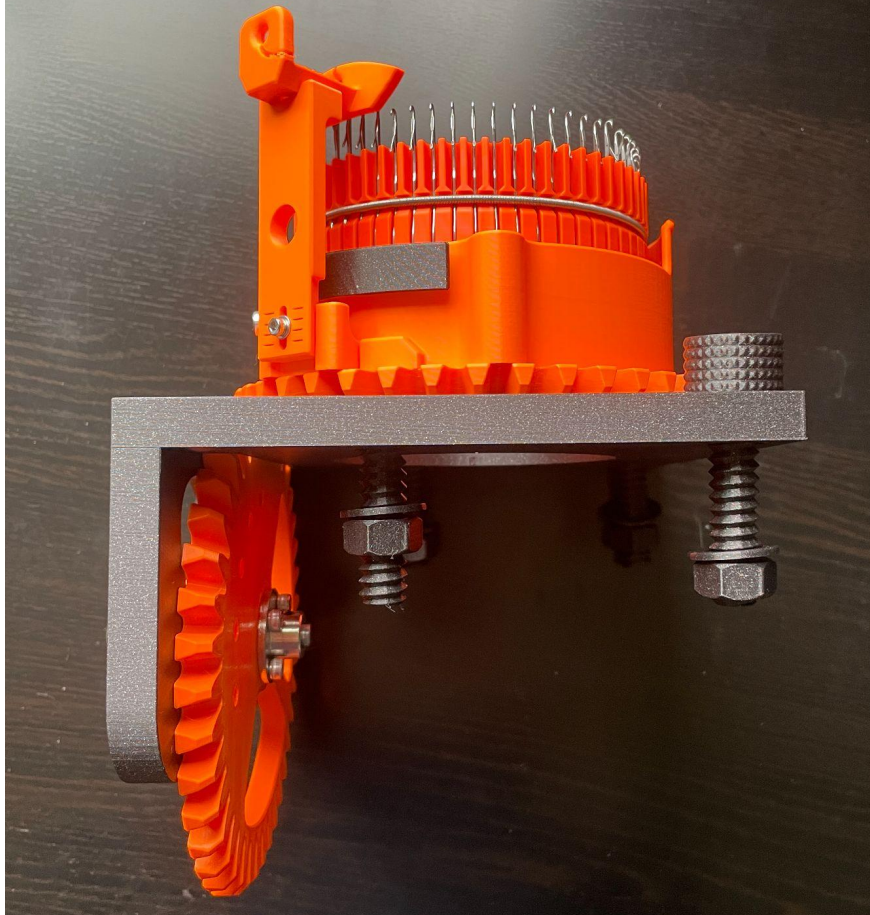
Press two skate bearings in frame flush with the inside where crank gear is.  
Cut 5/16 / 8mm rod at 70mm for crank arm through frame and crank gear.  
Add Flange shaft coupling to crank arm and crank gear.

#### Final Assembly



Place the two Front Frame Bolts in the frame  
Place Cylinder assembly in Collar gear assembly.  
Add Collar Gear Spacer.stl (no holes) and Cylinder Riser 8mm.stl (has holes)  
  
Align four M3 holes in the frame with four M3 holes in cylinder.  
Place on base and align gear with crank assembly.  
4x M3x25 through frame cylinder riser into cylinder





Instead of using the back frame bolts, I use an extra clamp.

Add final assembly to your chosen mounting system and start cranking socks!

