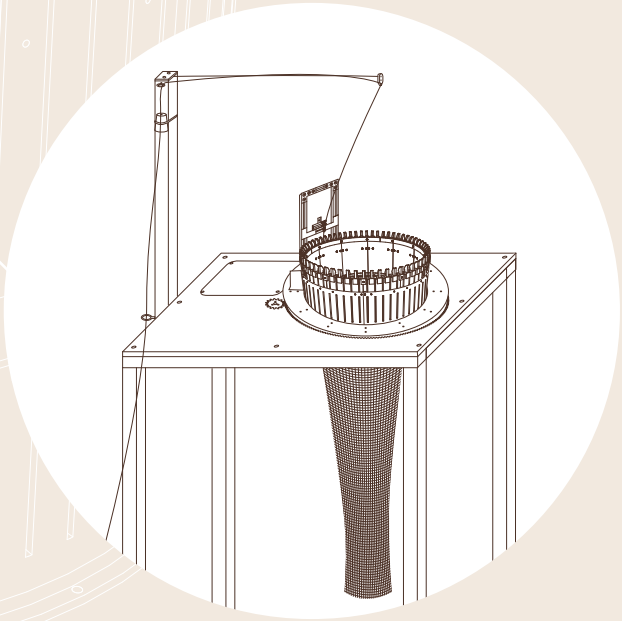
circular Knitic

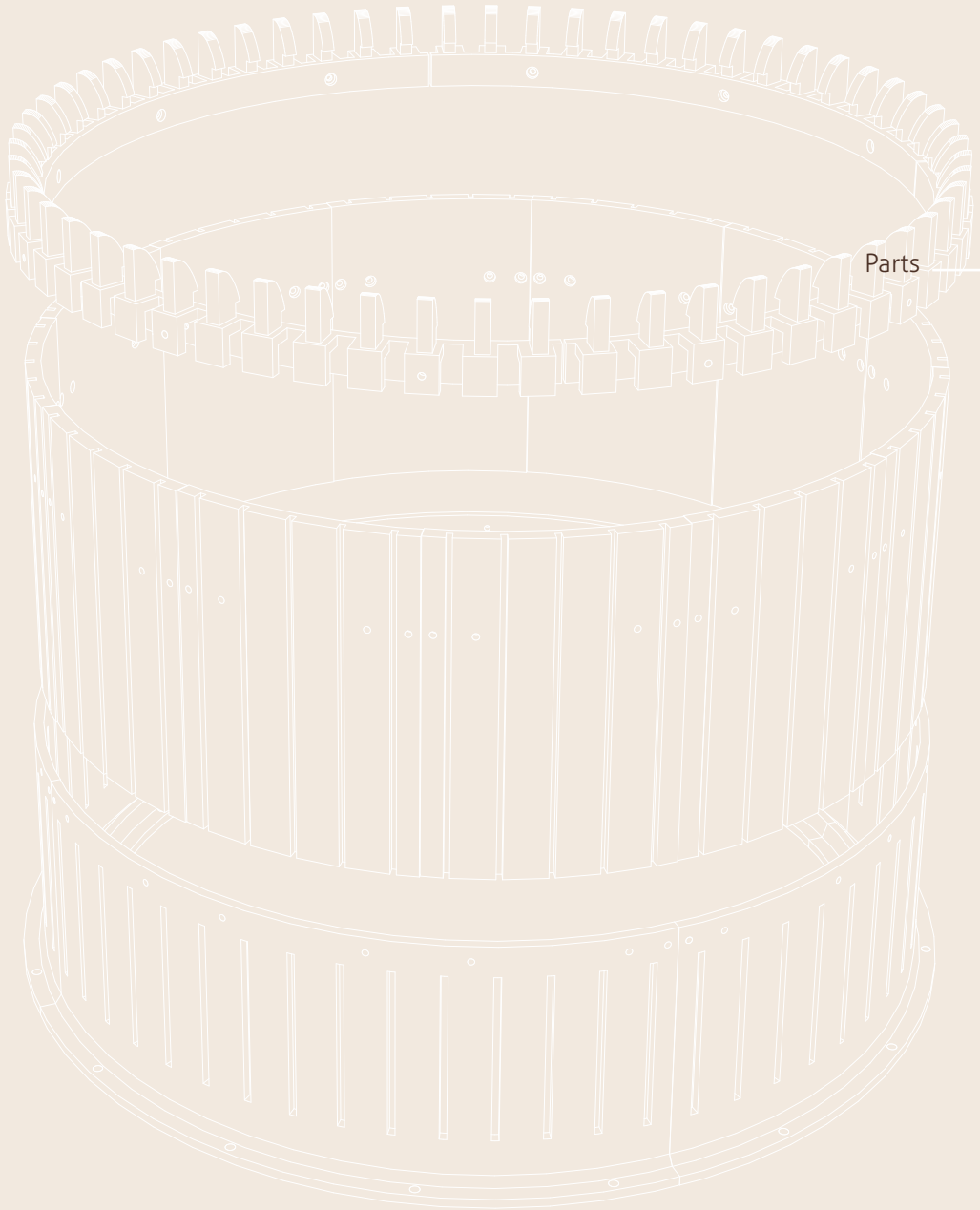
open source knitting machine

http://var-mar.info | http://www.knitic.com

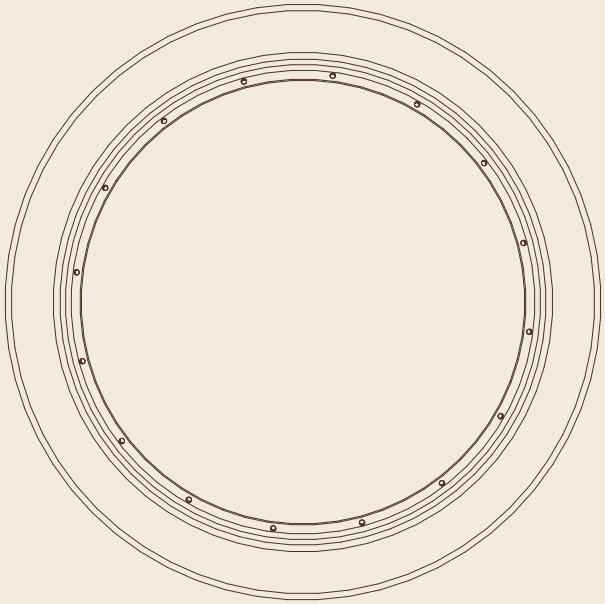
Varvara Guljajeva & Mar Canet

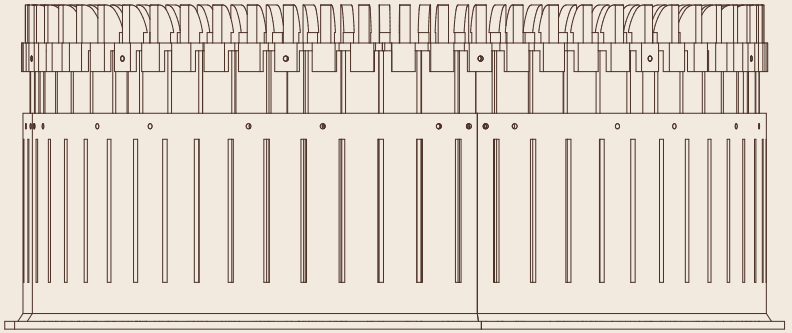
2014

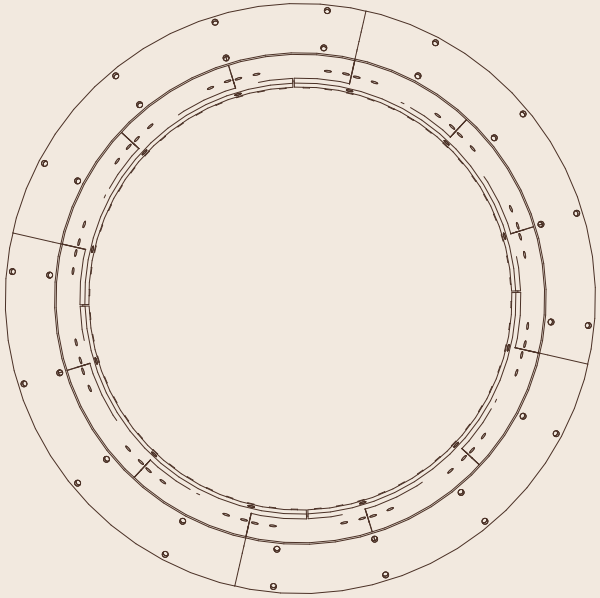


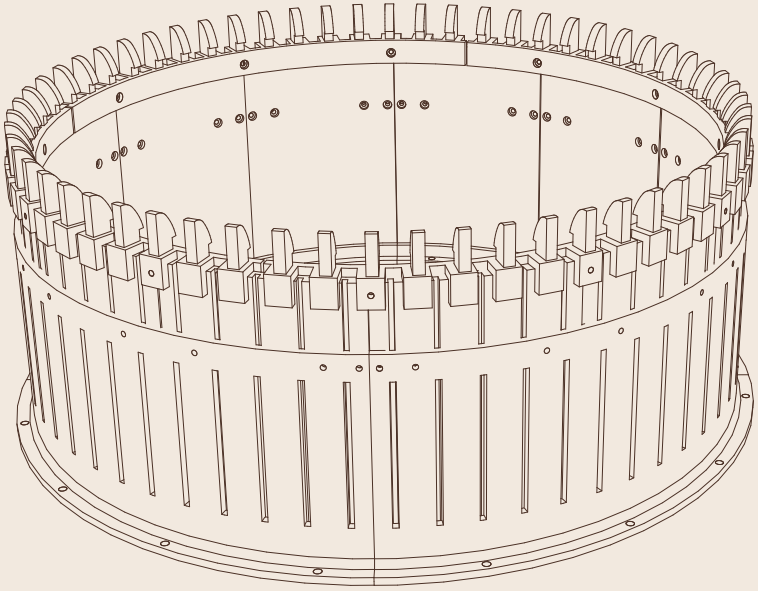


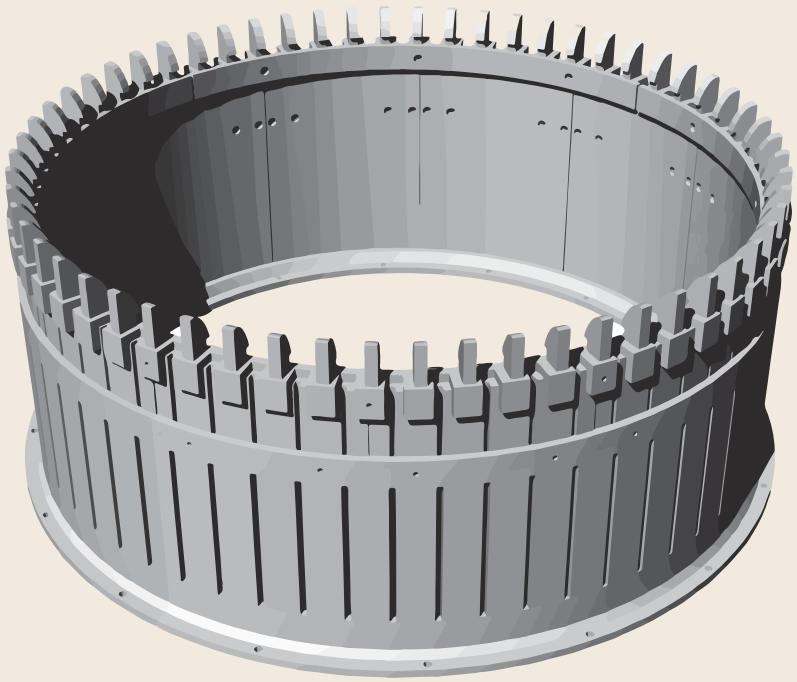
Parts

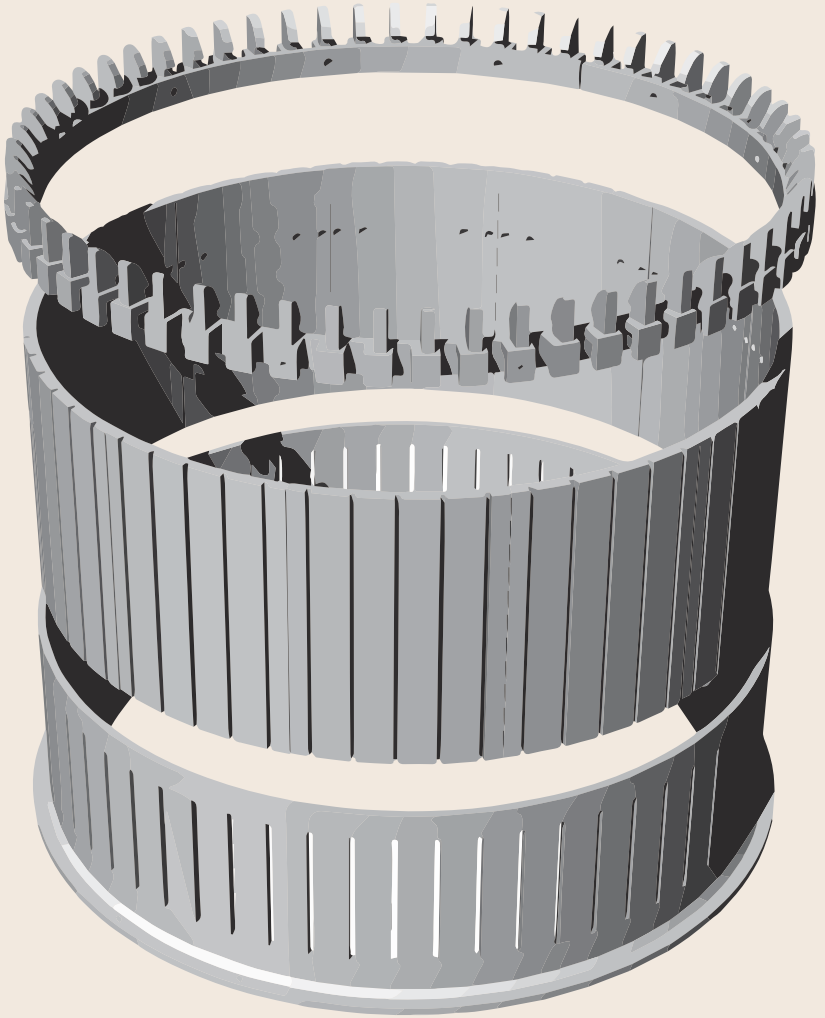


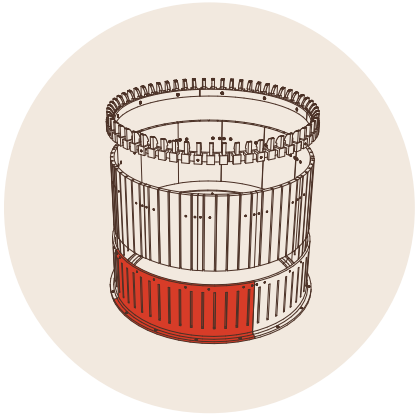


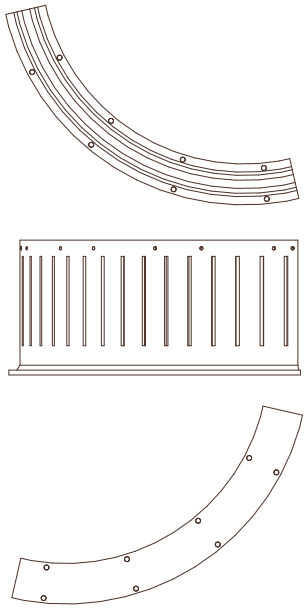


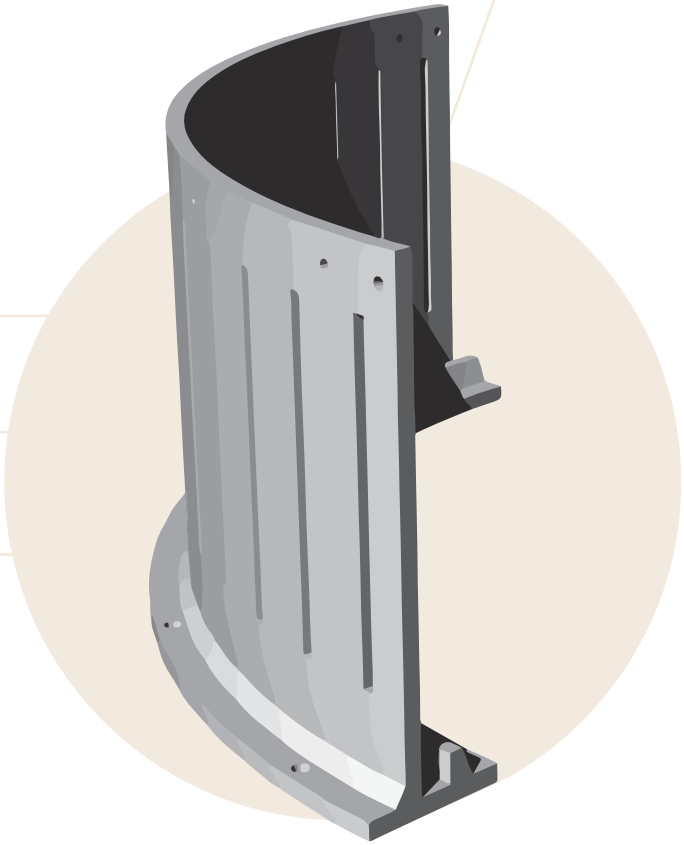




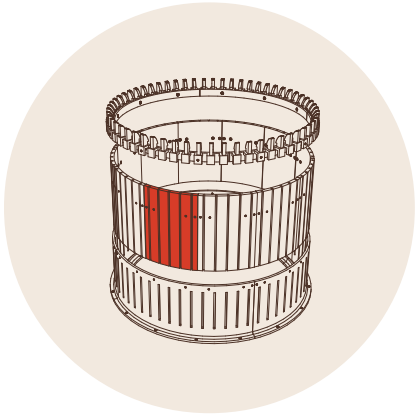


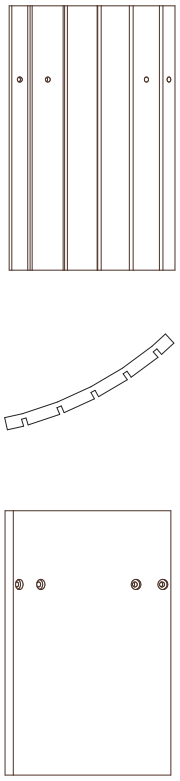


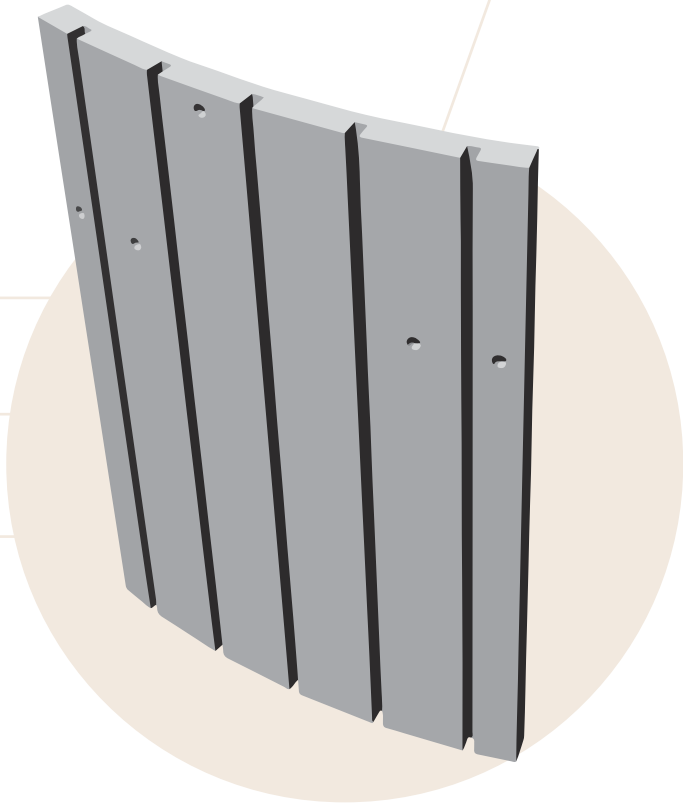




4 x Outer

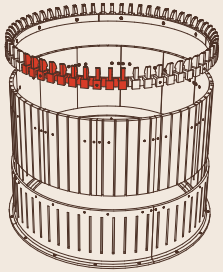


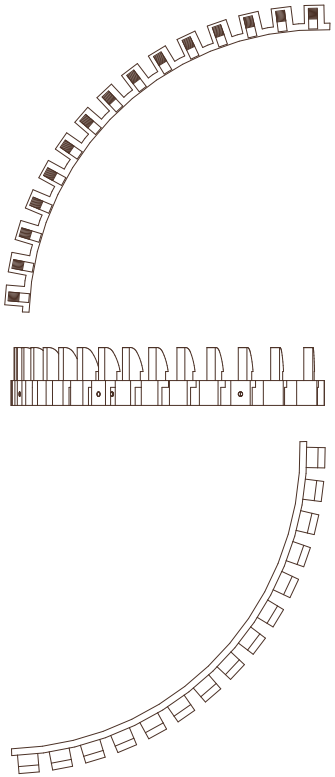




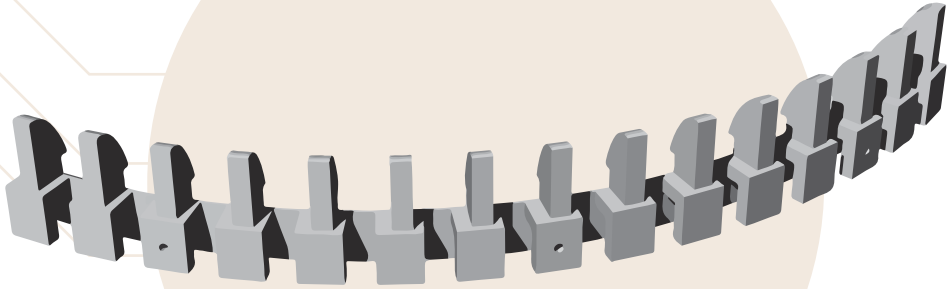
12 x Inner

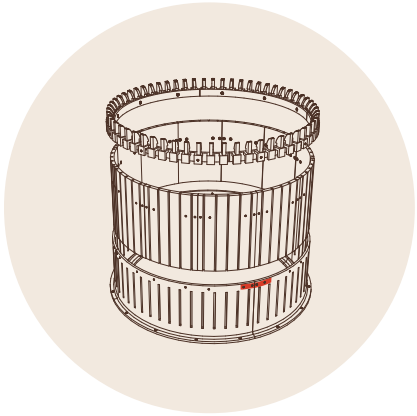
where the needles go



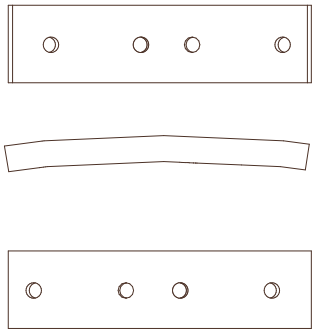


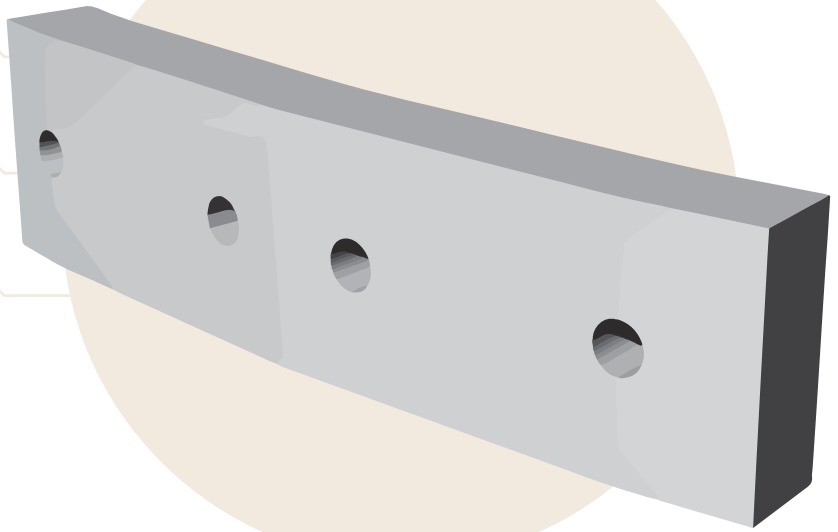
4 x Yarn holder

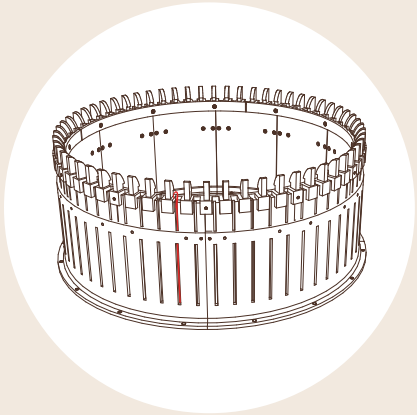


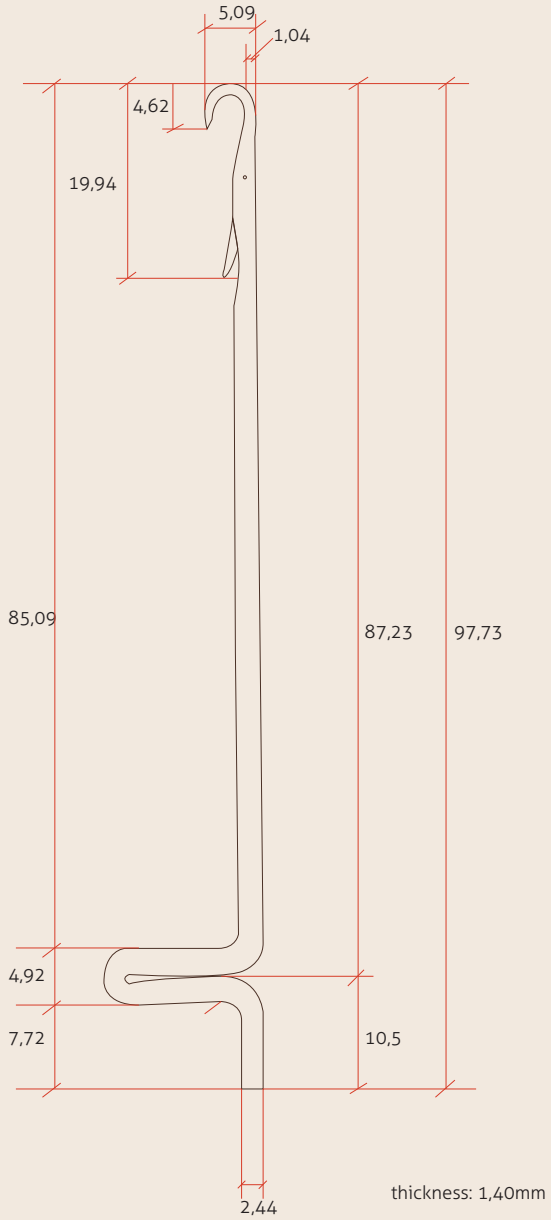


4 x Outers' connector





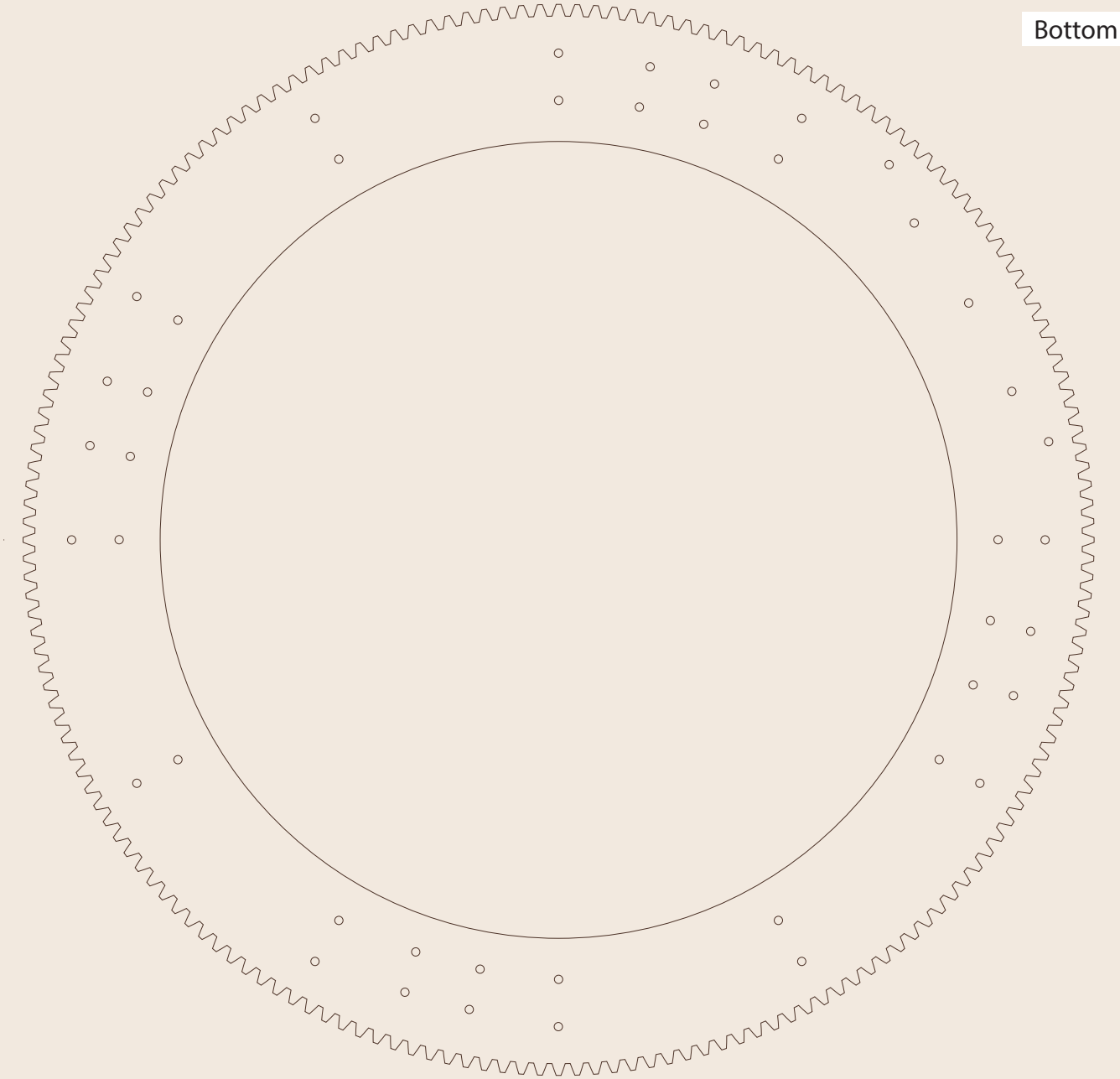


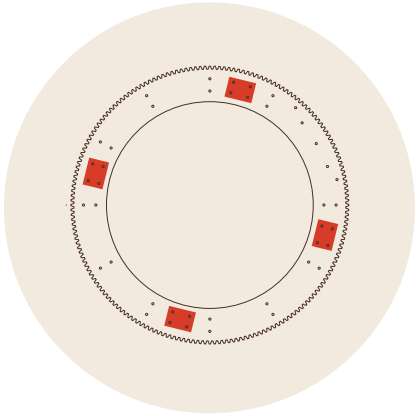


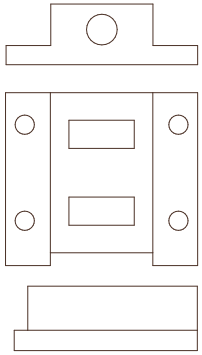
thickness: 1,40mm

60 x Needle

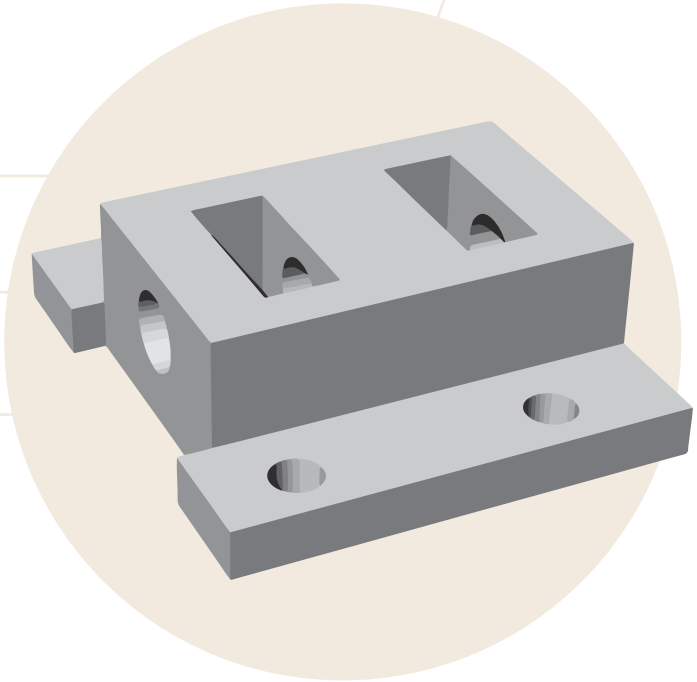
Bottom surface (big gear) + motor gears

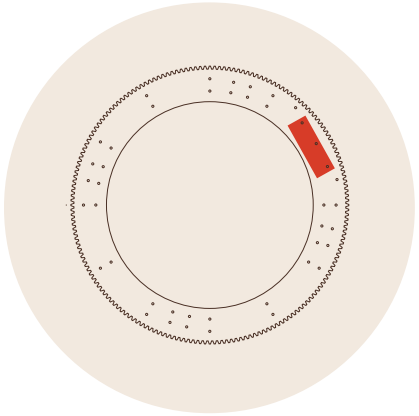




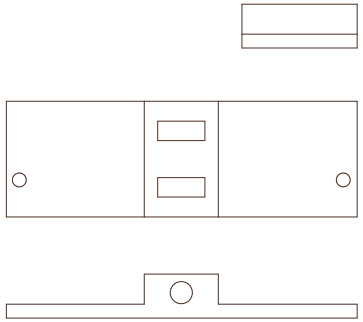


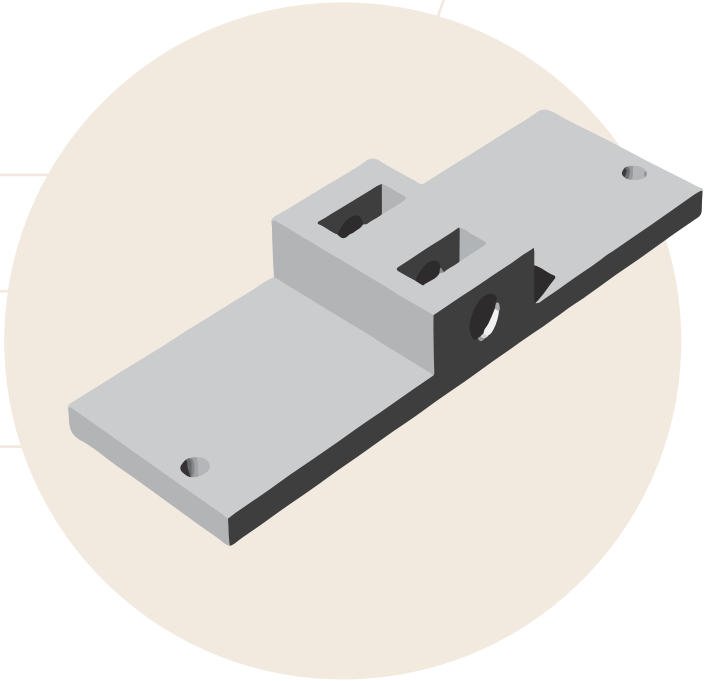
4 x Small bearings' holder

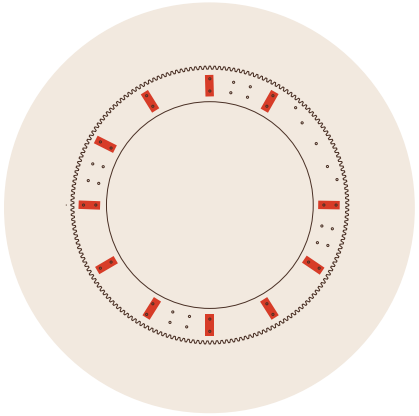




Big bearings' holder

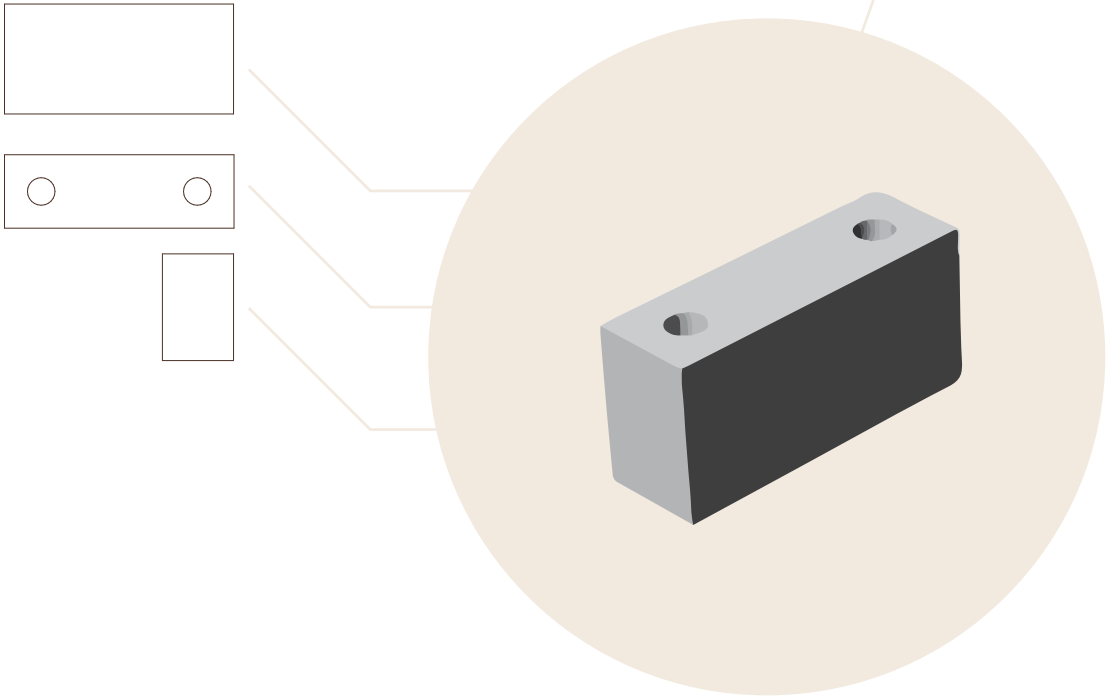






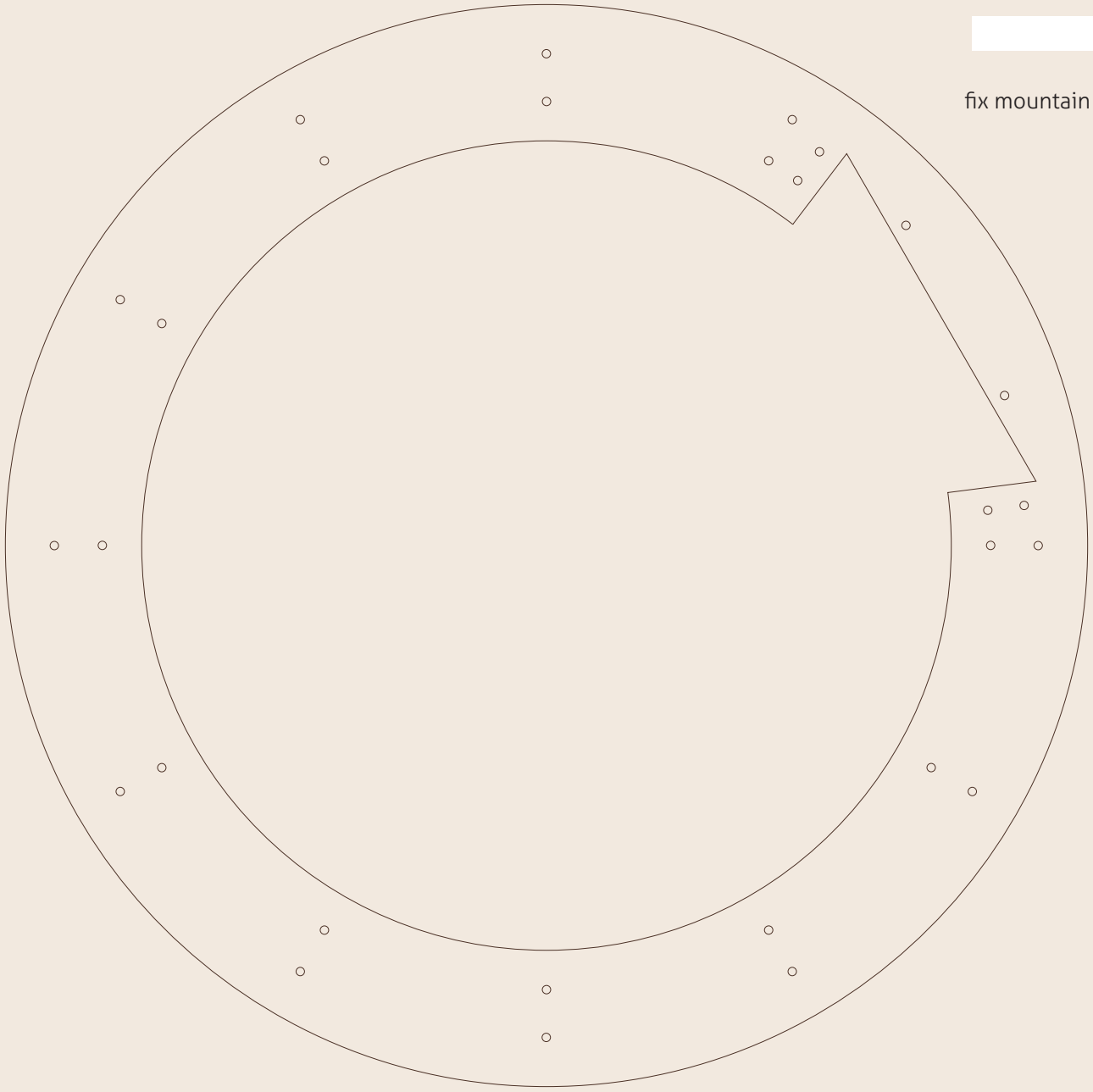
11 x Connector

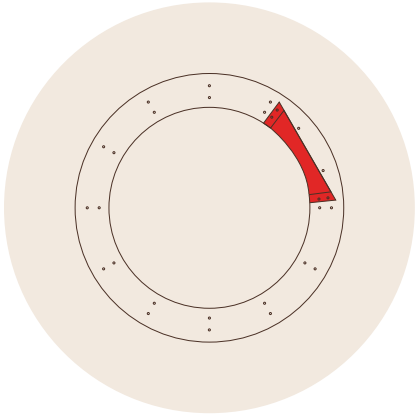
connects upper and bottom plates

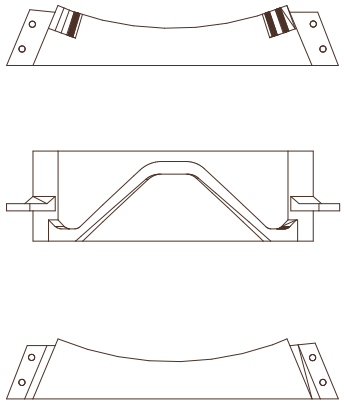


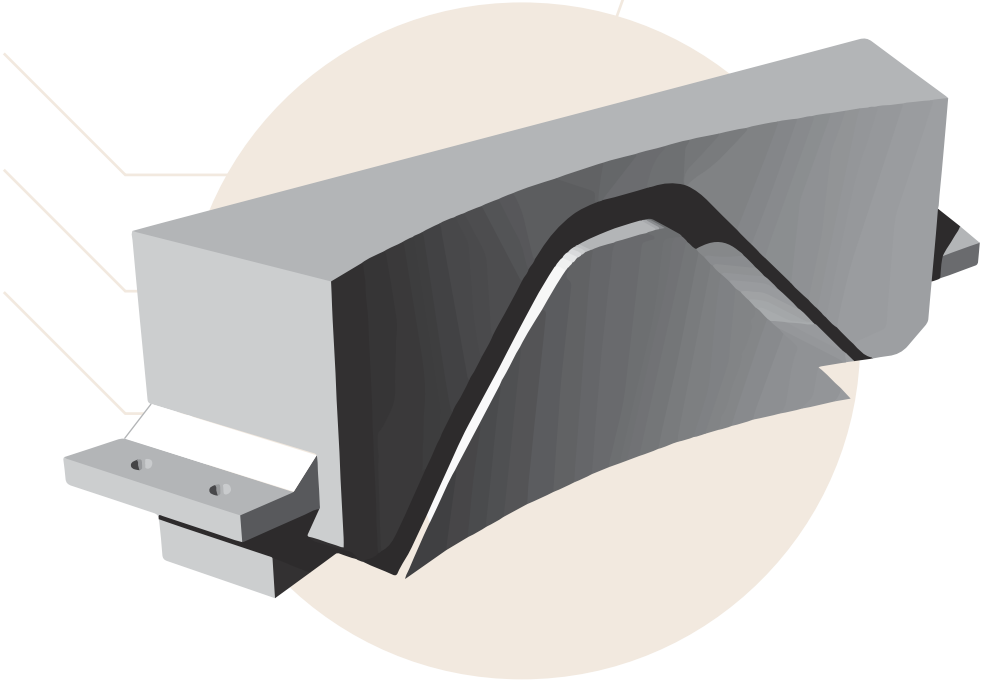
Upper surface

fix mountain and makerbeam parts here



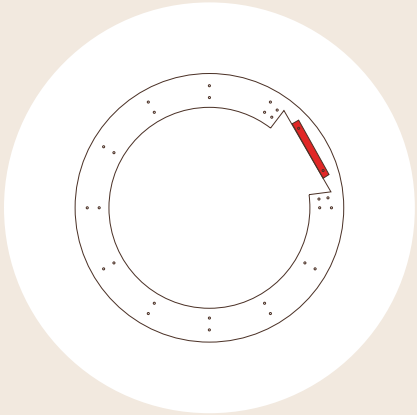


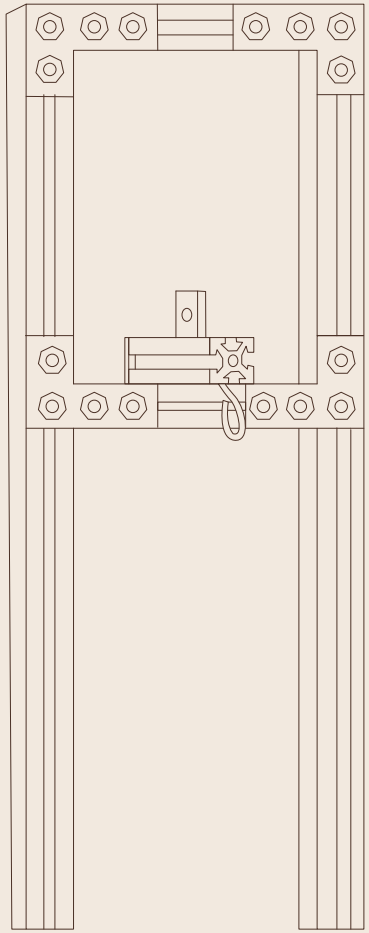




Mountain

Pushes needles up and again down



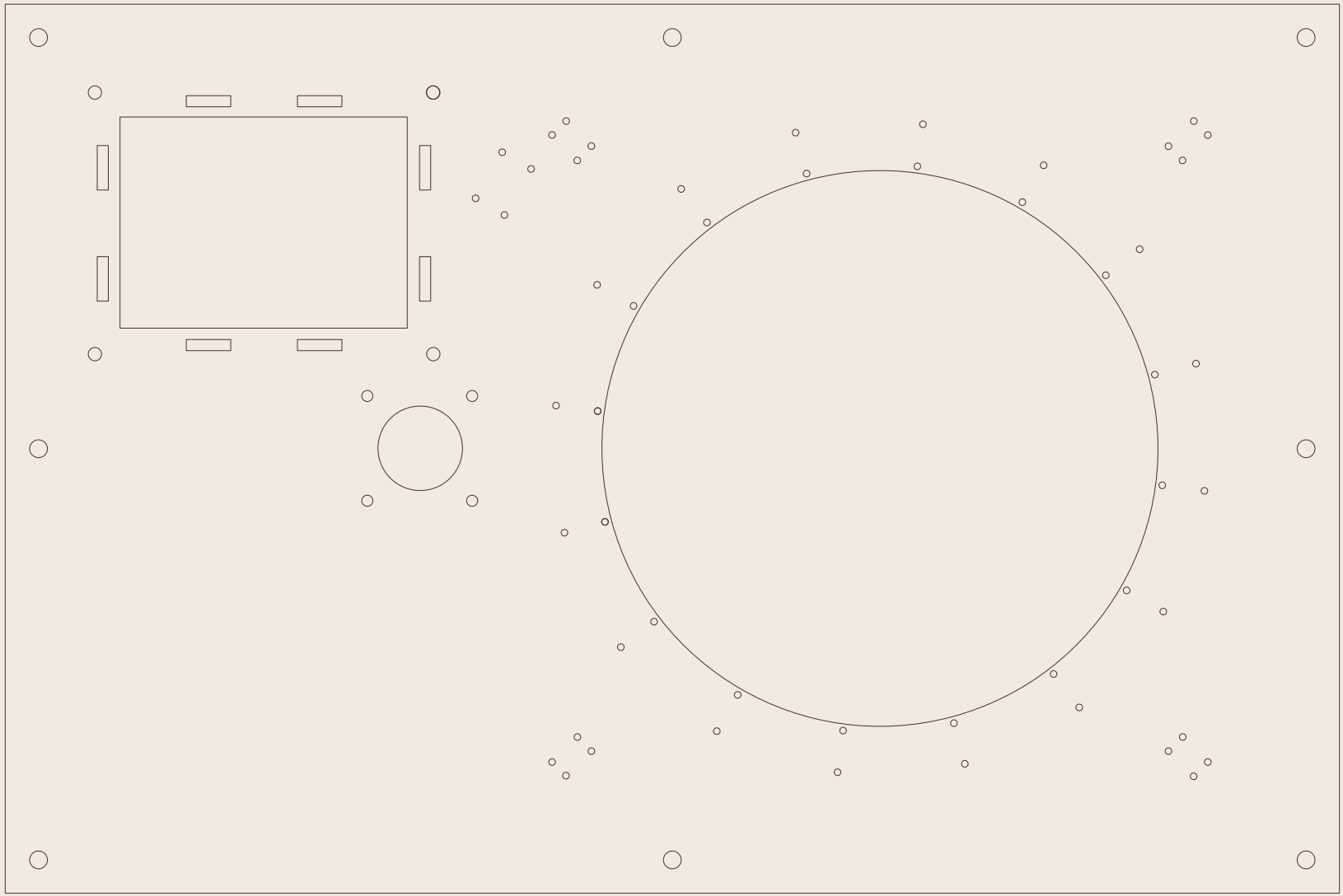


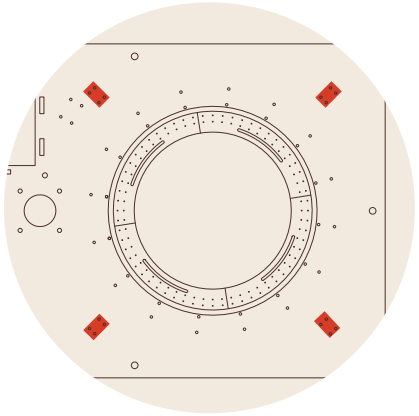
Yarn-feeder

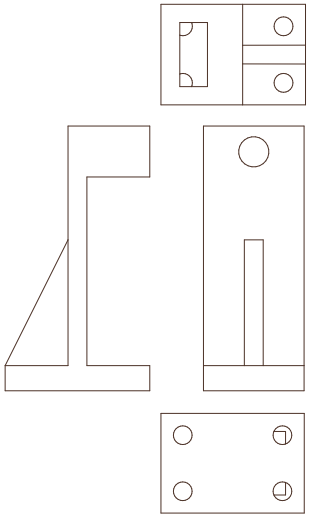
Use 2 x 200mm beam
2 x 60mm beam
1 x 40mm beam
made out of makerbeam

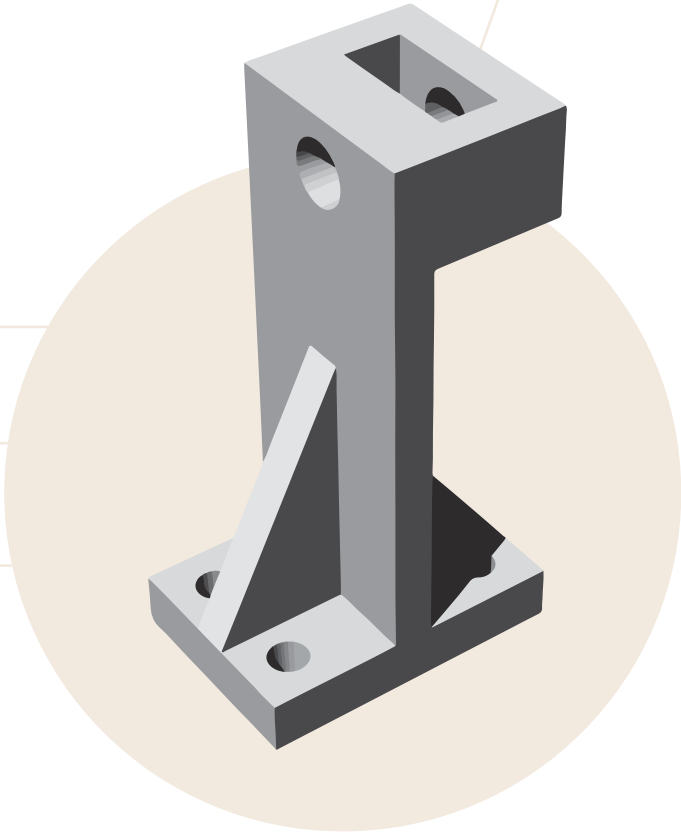
Plate

here will be mounted all the machine parts







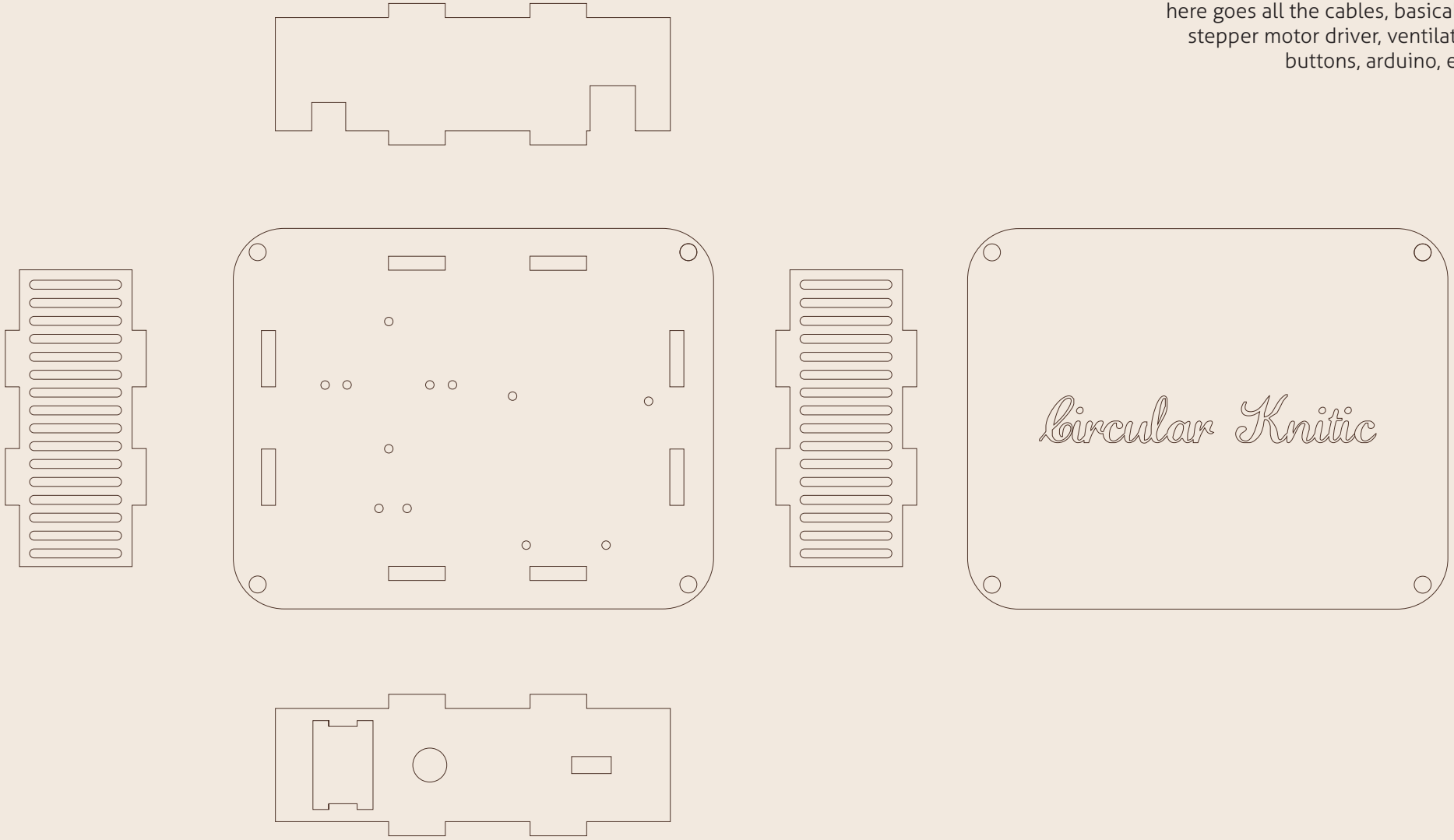


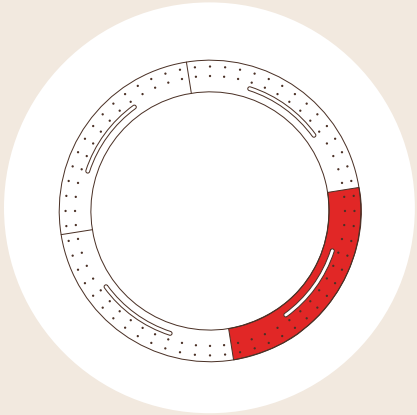
4 x Z-shape

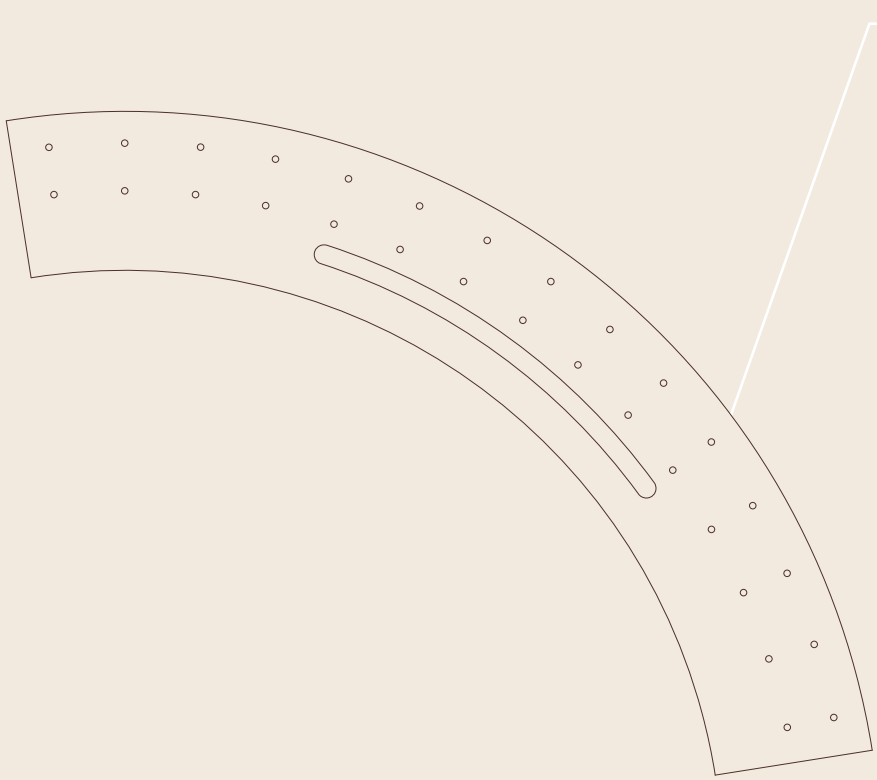
keeps the surfaces down and
doesn't allow to move them up

Box of electronics

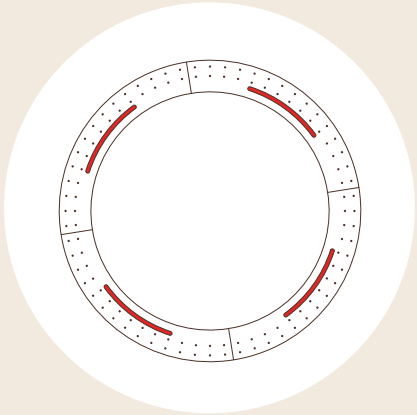
here goes all the cables, basically:
stepper motor driver, ventilator,
buttons, arduino, etc.





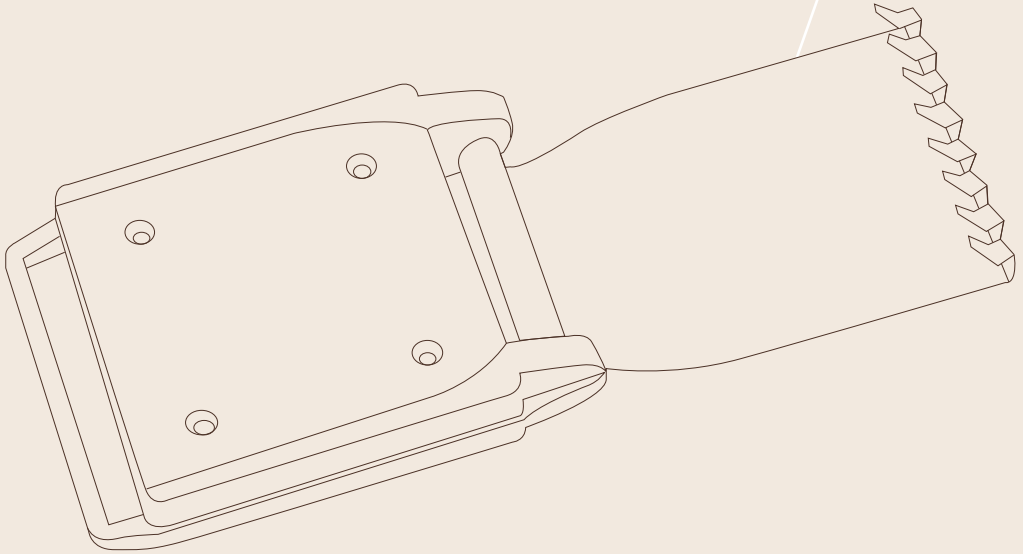


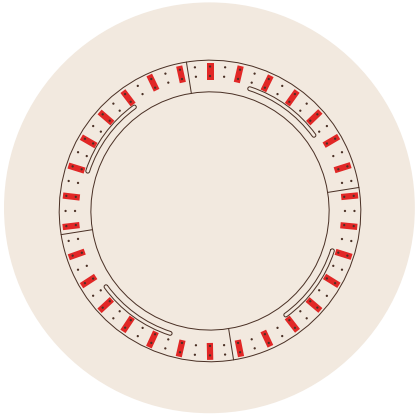
4 x weight holder

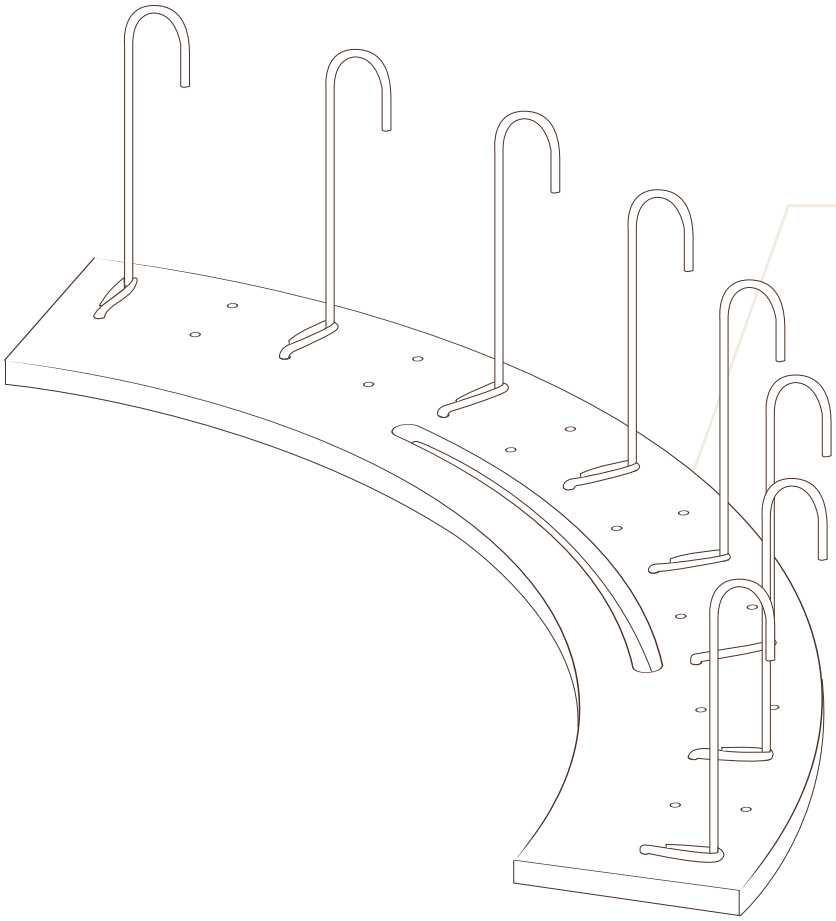


4 x Knitting machine claw weight

weight: 113g.

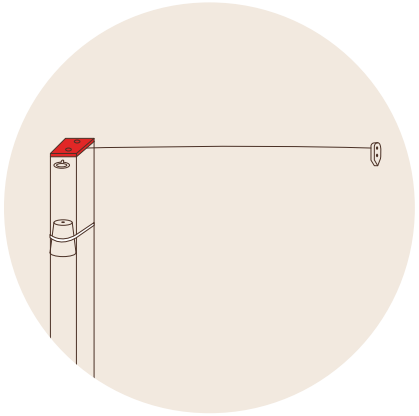






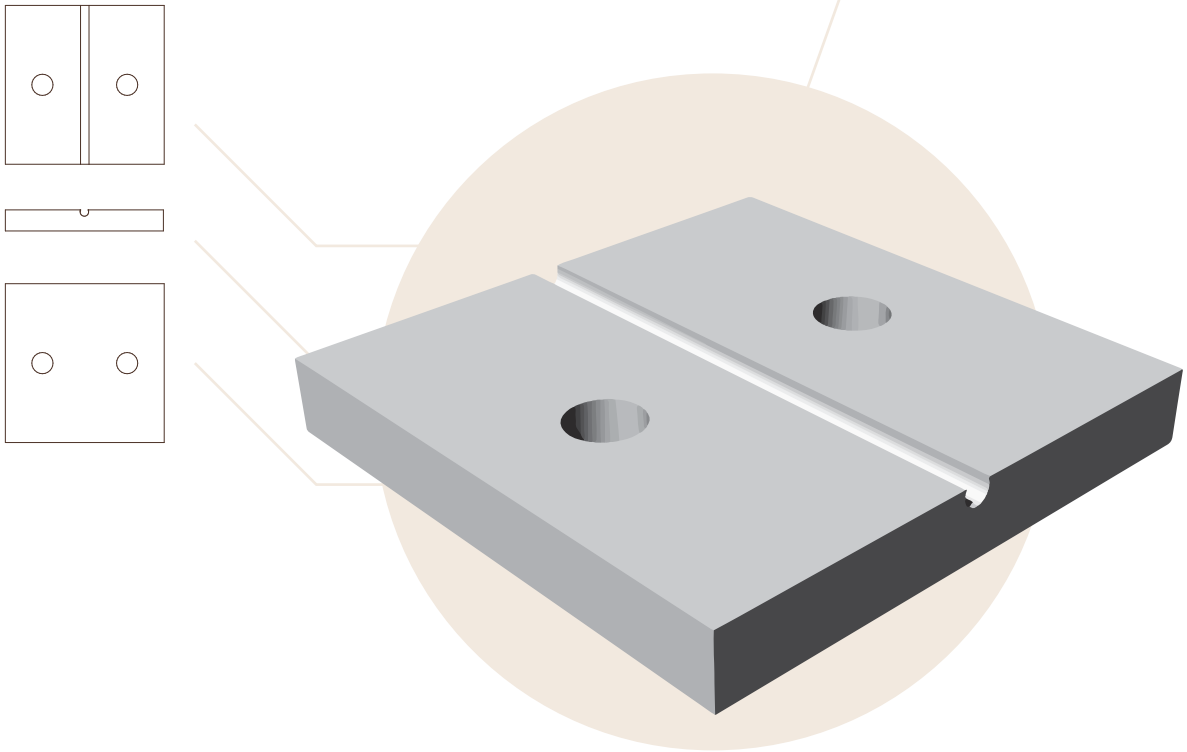
30 x Paper clip

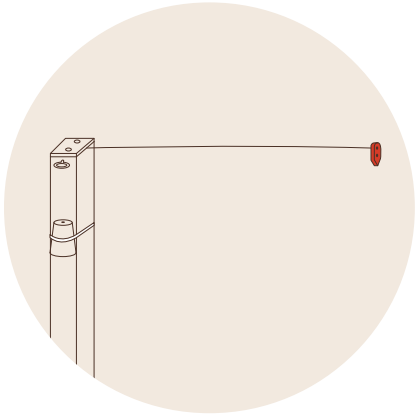
long: 50mm.



Stick holder

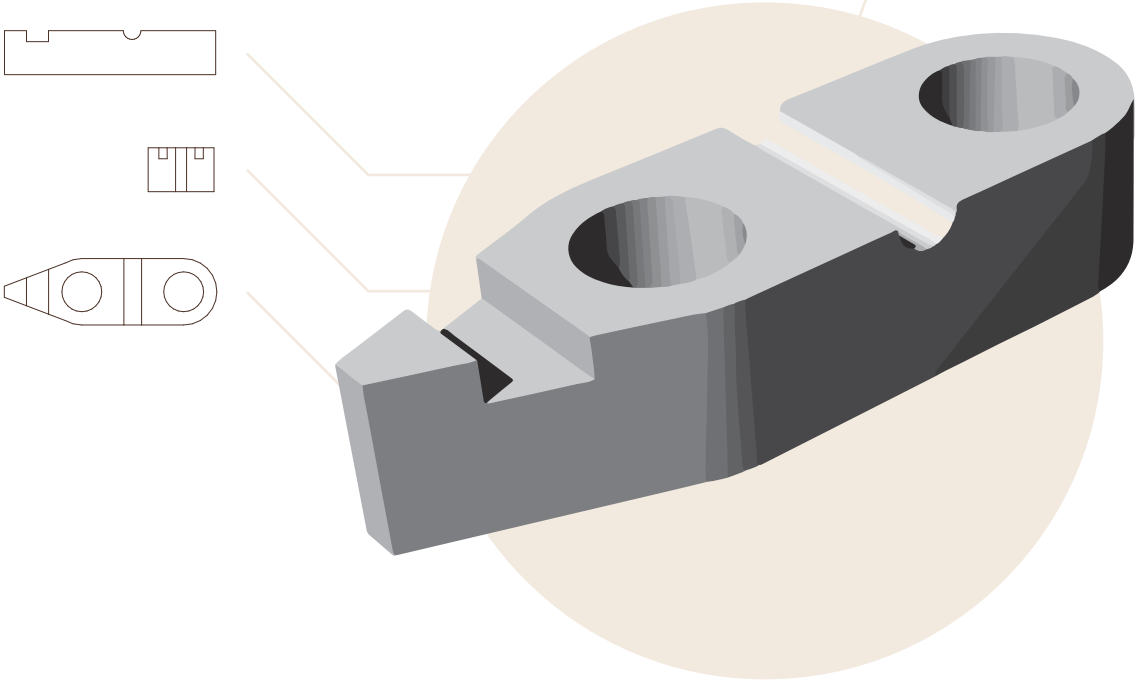
this item fixes a stick, which brings yarn
to the machine, into the table

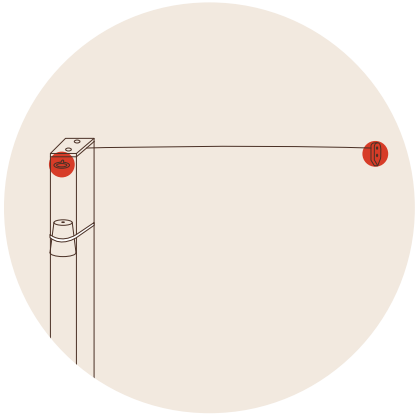


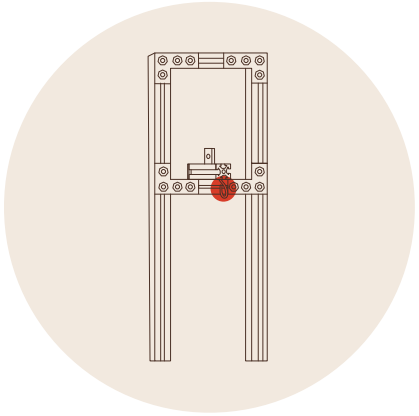


2 x Yarn holder2

Attach a metal piece for passing the yarn

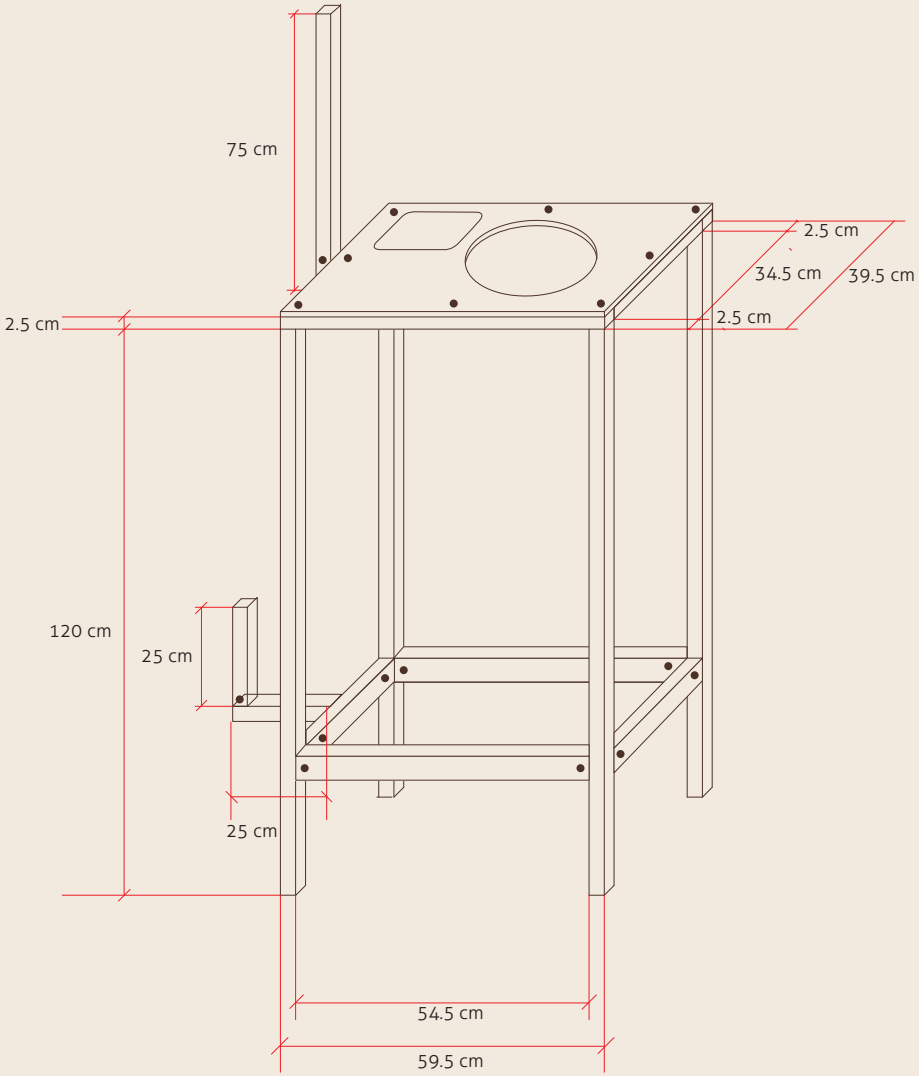


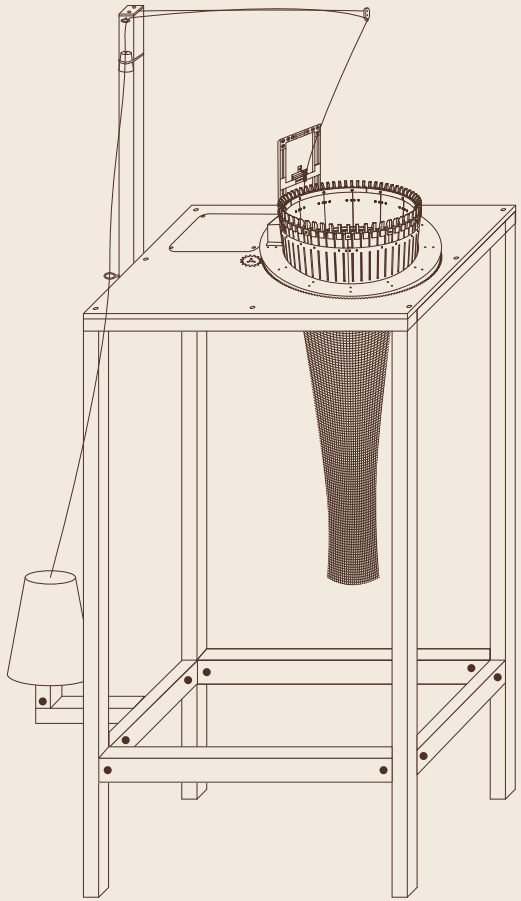




Metallic eight

Circular Knitic table





Screws circular Knitic

Size	Type	Long	Quantity	Use
M2	Philips head screw	8mm	16	attach inners with outer
M2	Philips head screw	12 mm	28	attach inners with outer connections, yarn holders
M2	steel nut		44	
M3	Screw button head socket	6mm	24	makerbeam
M3	DIN912 hex screw	12mm	49	attach outers to plexi, and z-shape, small and big bearings' holders, mountain, construction from makerbeam
M3	DIN912 hex screw	16mm	5	attach gear on the stepper motor
M3	DIN912 hex screw	30mm	22	attach gear wheel with spacers
M3	steel nut		94	
M5	DIN912 hex screw	16mm	8	attach stepper motor
M5	DIN912 hex screw	25mm	5	attach bearing
M5	steel nylon lock nut		4	
M6	hex screw	70mm	4	mount the electronic box
M6	steel nut		4	mount the electronic box
M6	wing steel nut		4	mount the electronic box

DOERS

Curated by

David Cuartielles

20th December 2014 - 31th July 2015

Commissioned by

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