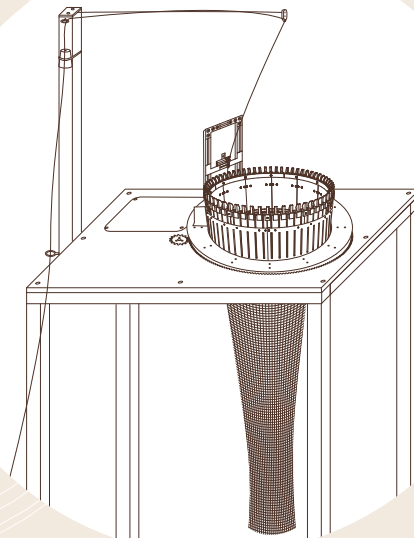
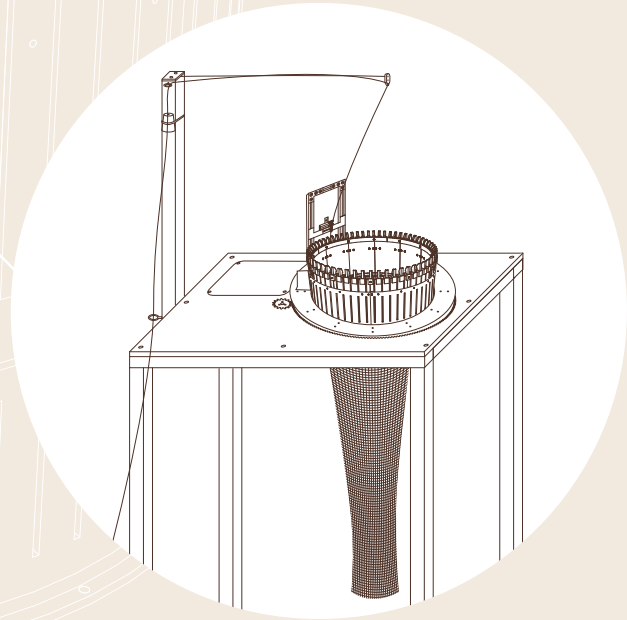


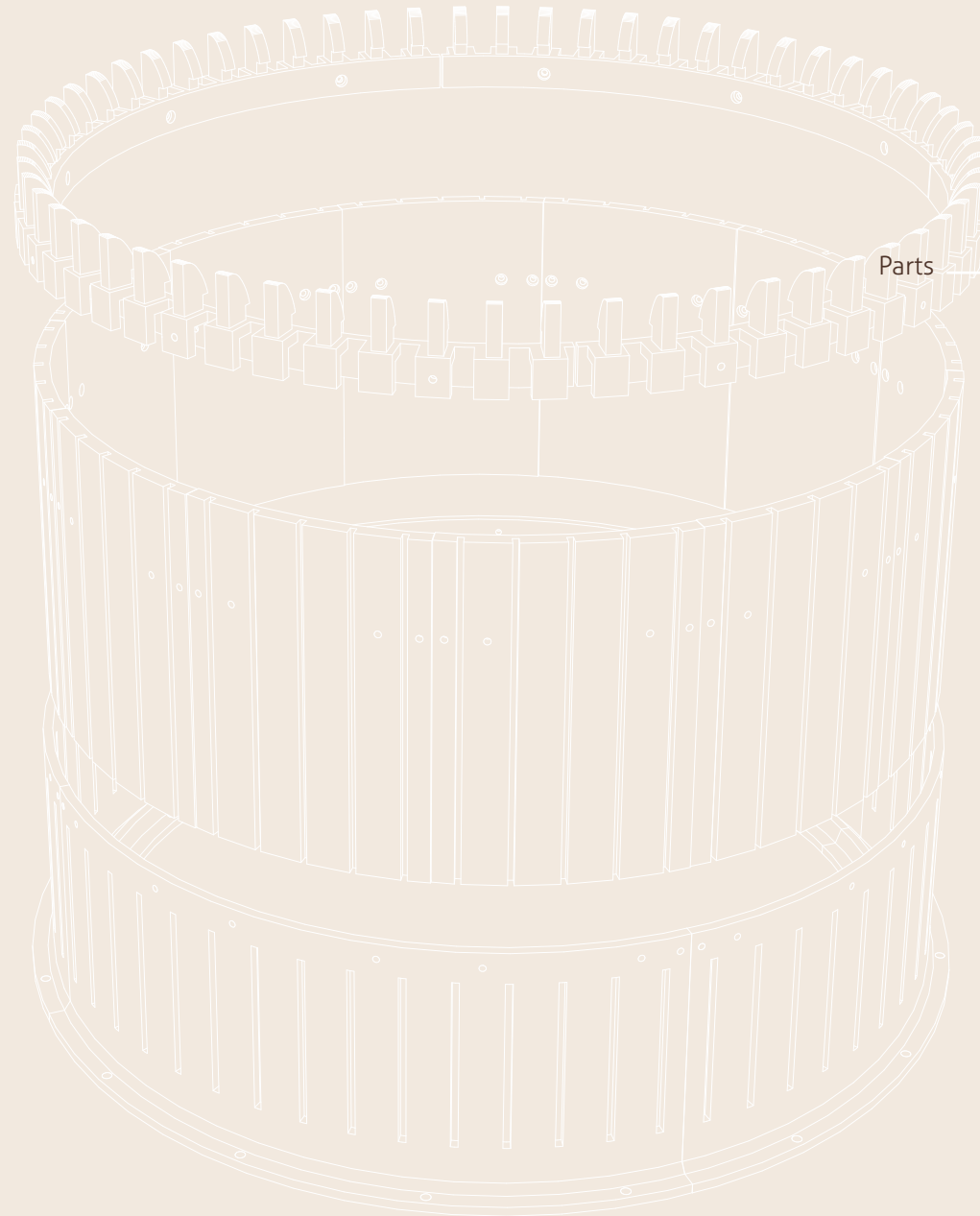
Circular Knitic

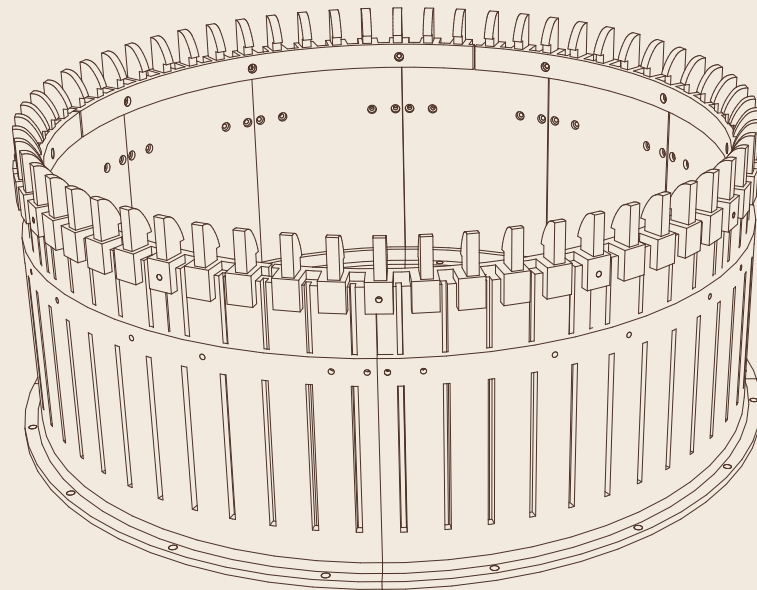
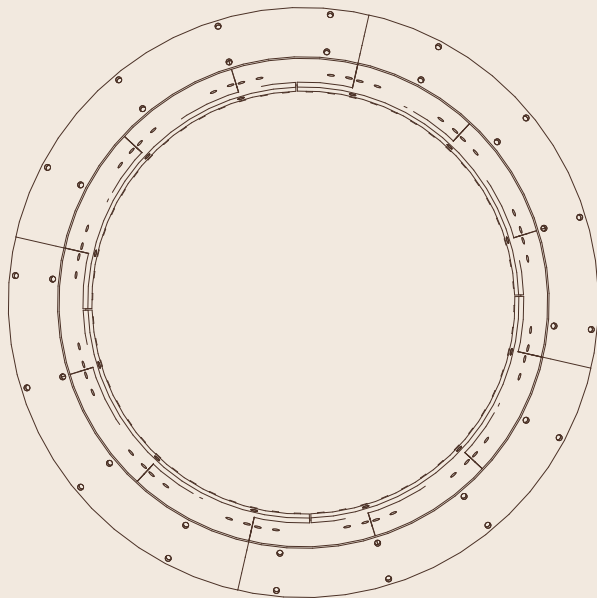
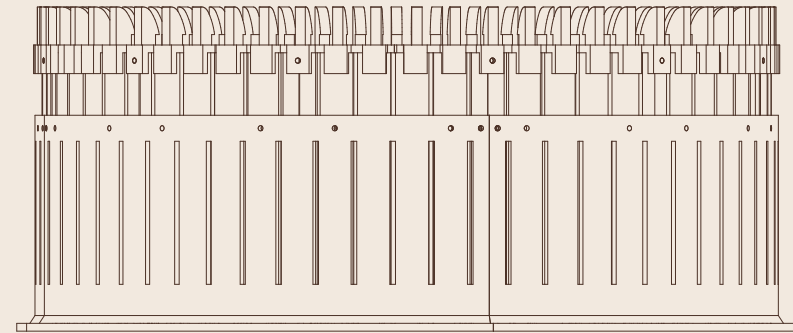
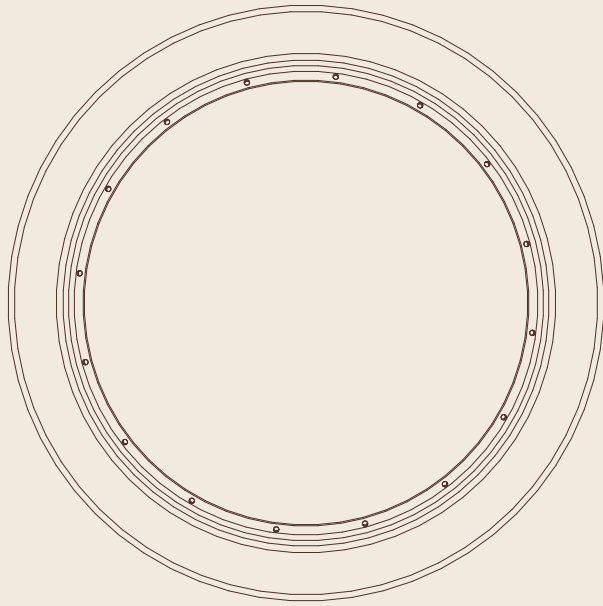
open source knitting machine

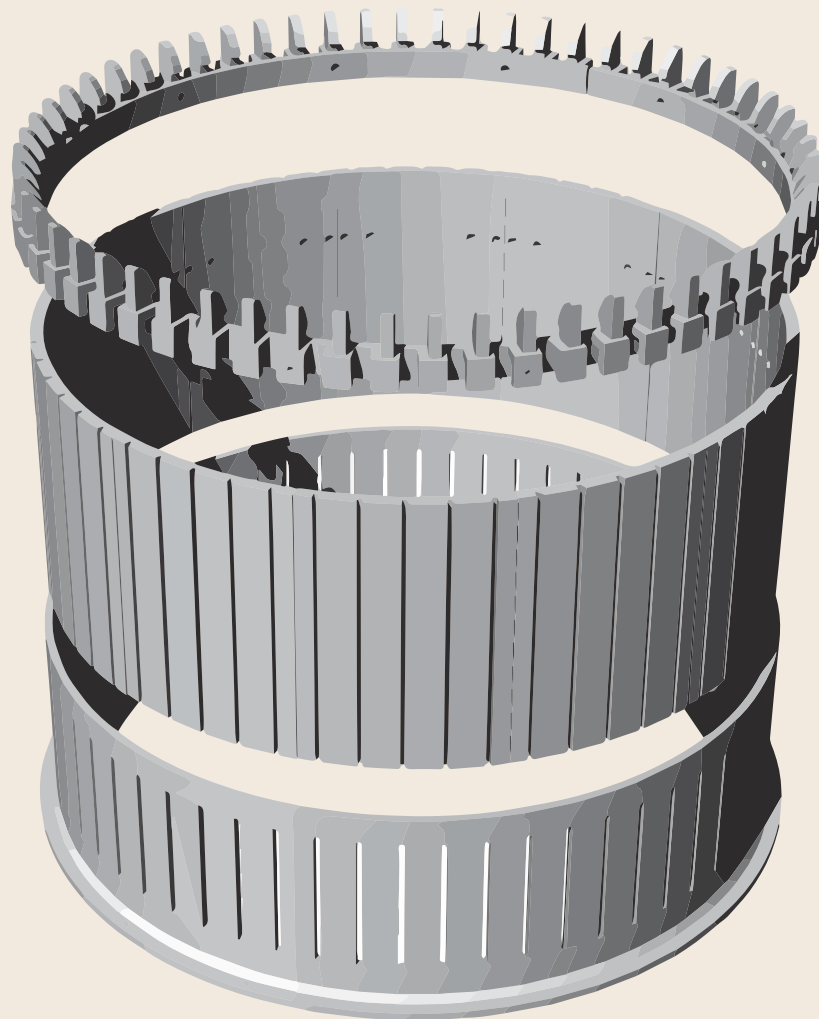
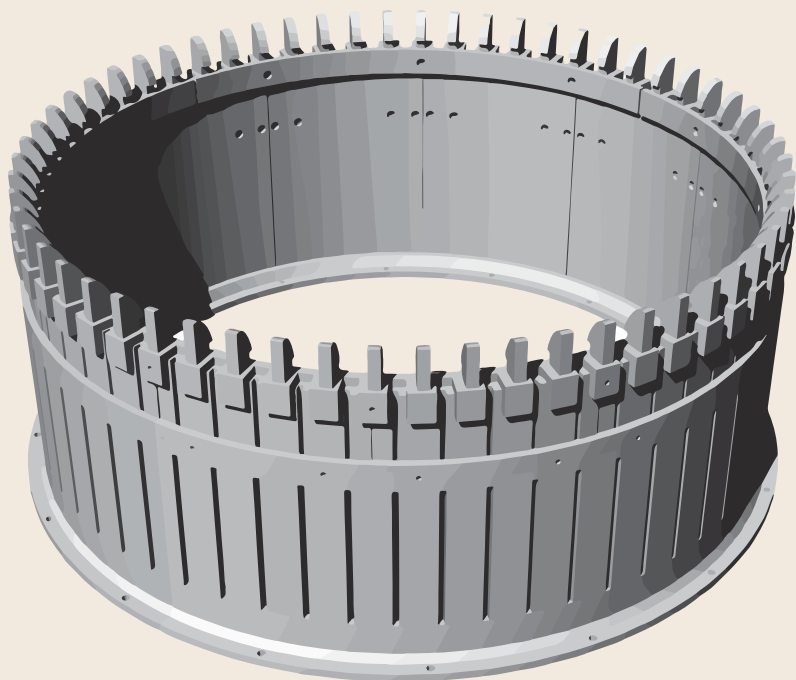
<http://var-mar.info> | <http://www.knitic.com>

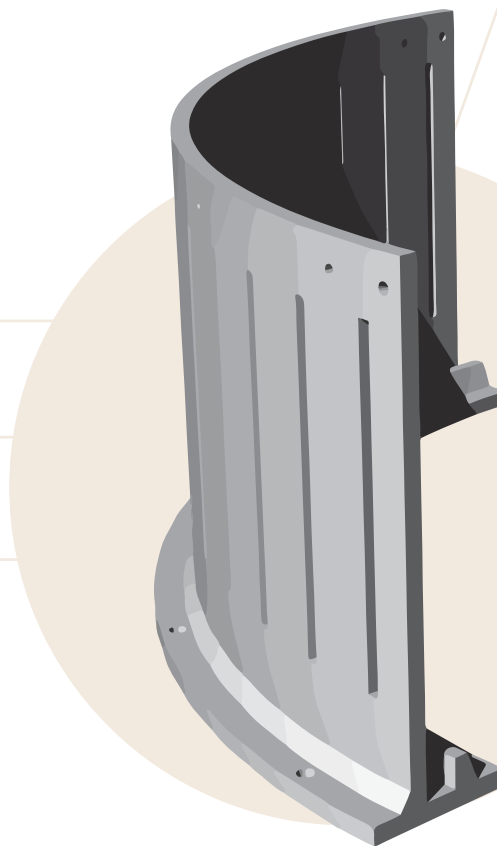
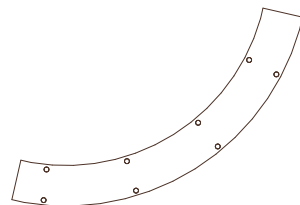
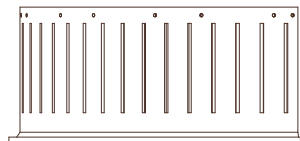
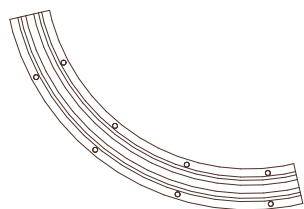
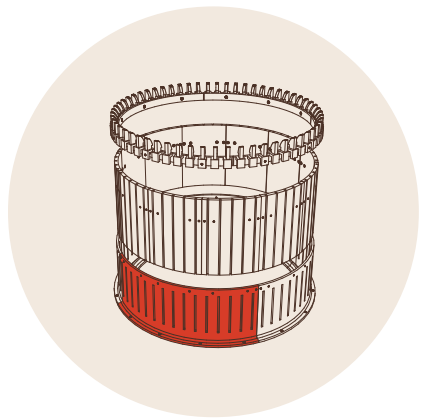
Varvara Guljajeva & Mar Canet
2014





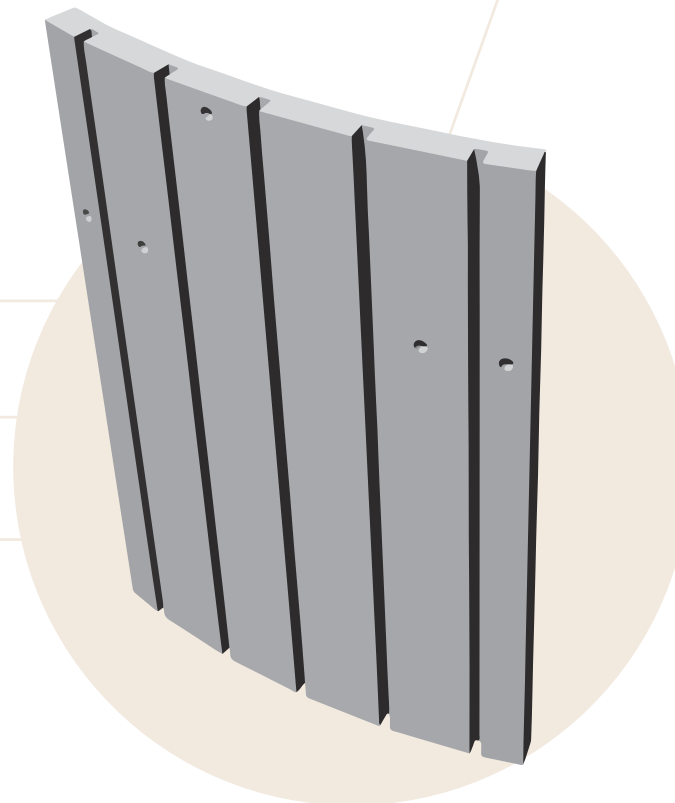
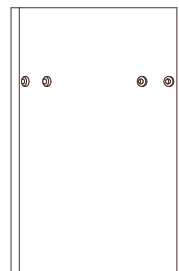
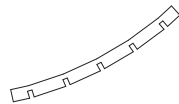
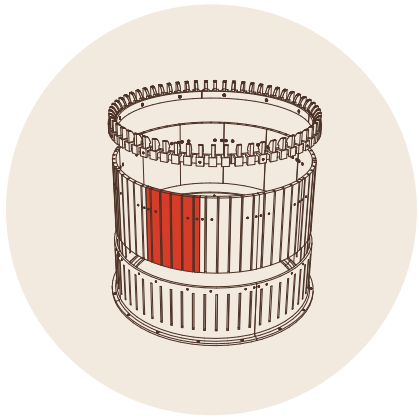






4 x Outer

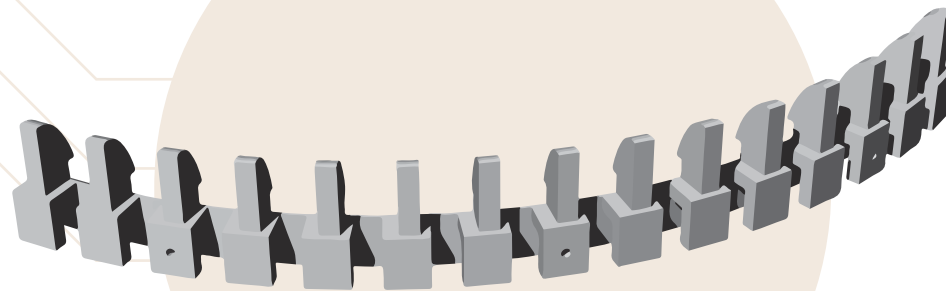
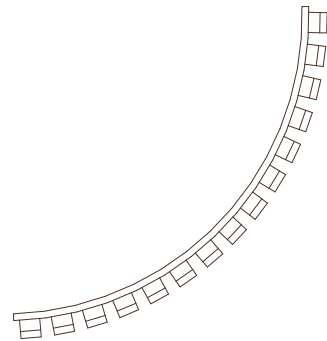
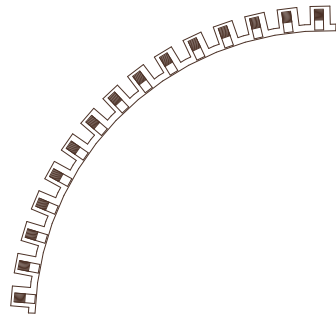
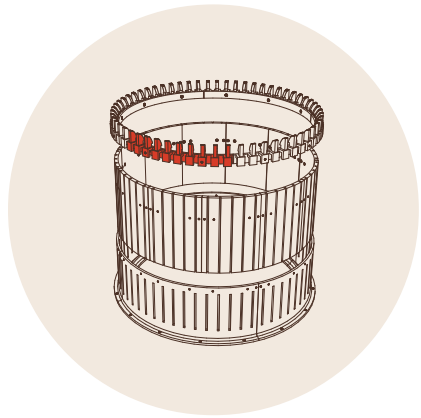
Connect to a plate with:
M3,DIN912 hex screw, 12mm, 24; M3 nuts, 24



12 x Inner

where the needles go

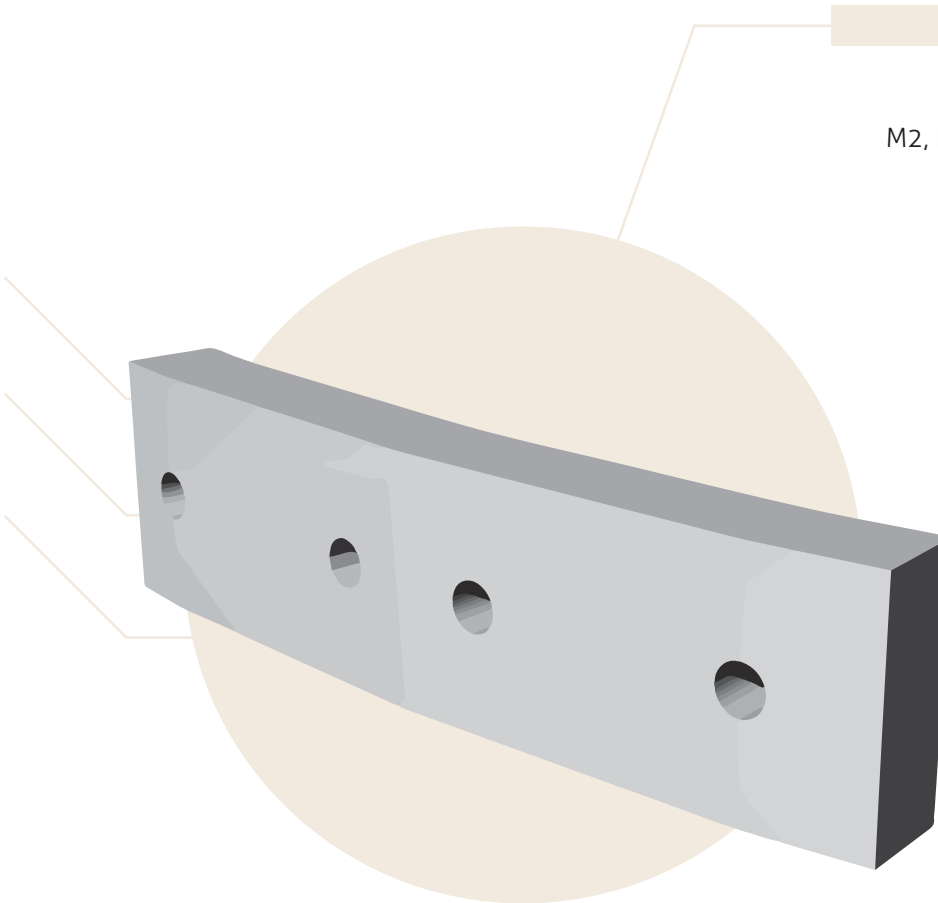
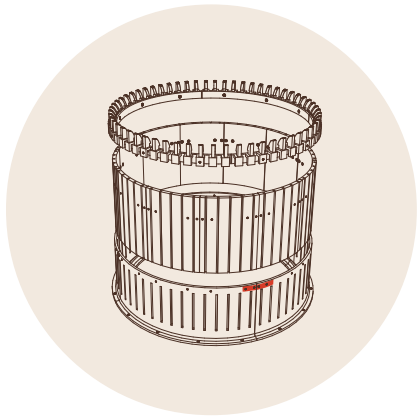
Connect to an outer with:
M2, Philips head screw, 8mm, 16



4 x Yarn holder

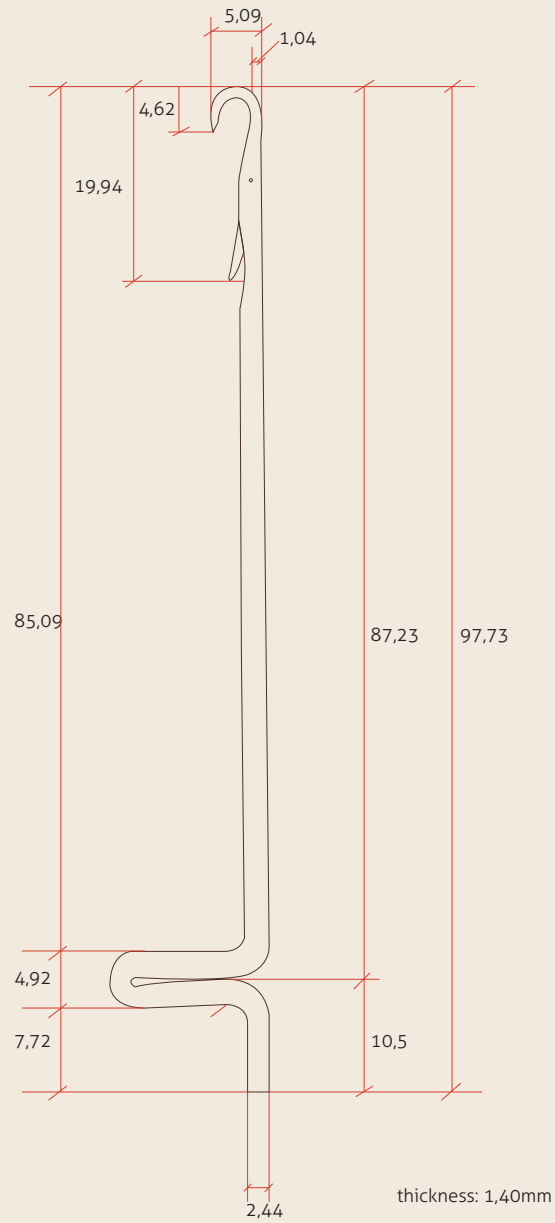
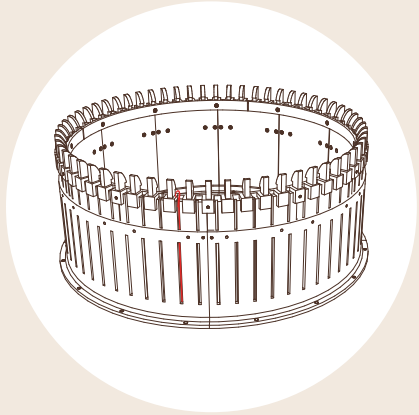
where the needles go

Connect to an inner with:
M2, Philips head screw, 12 mm, 12



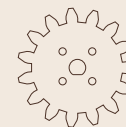
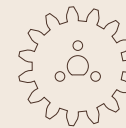
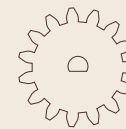
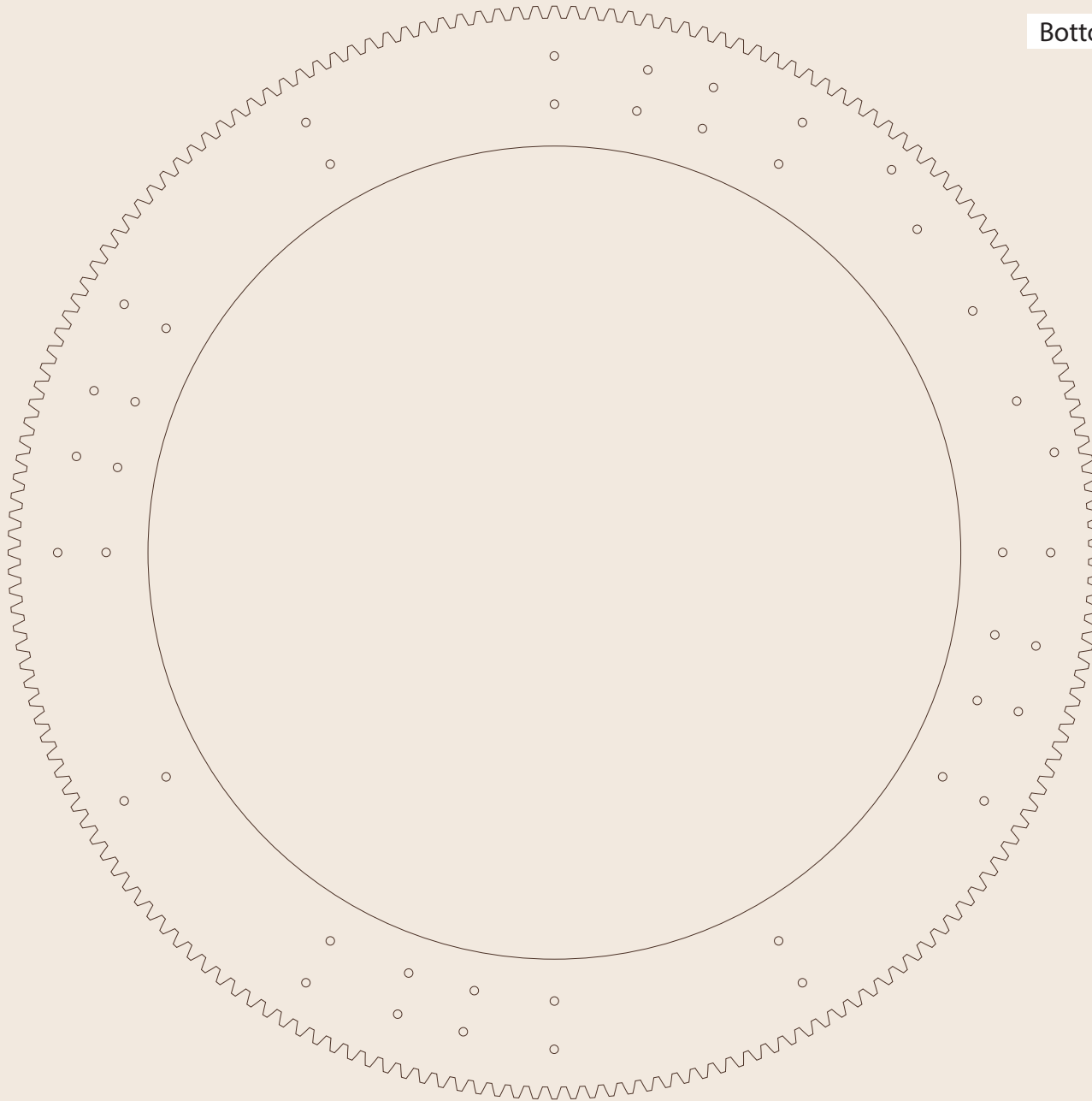
4 x Outers' connector

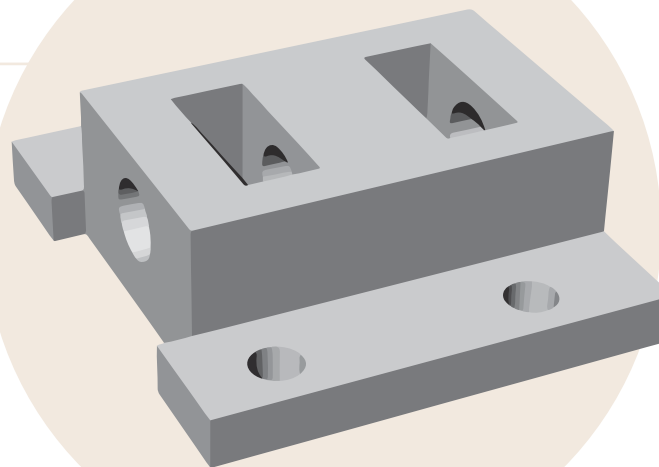
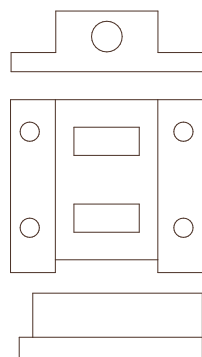
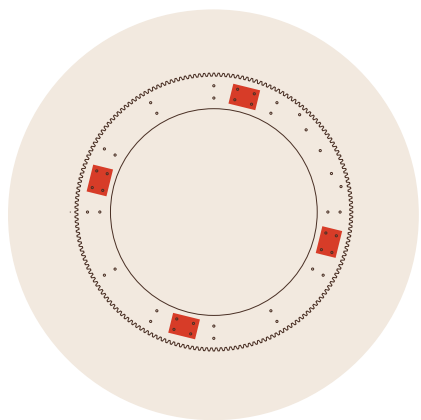
Connect to an outer with:
M2, Philips head screw, 12 mm, 16



60 x Needle

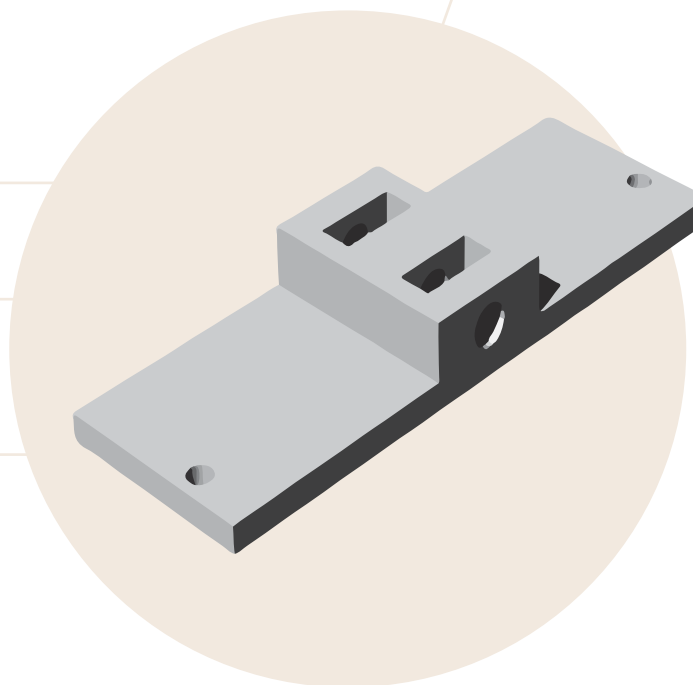
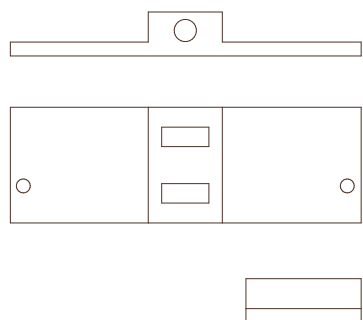
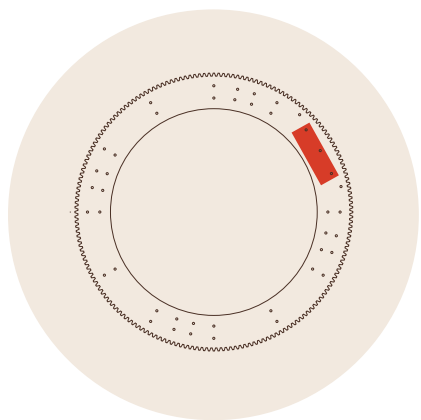
Bottom surface (big gear) + motor gears





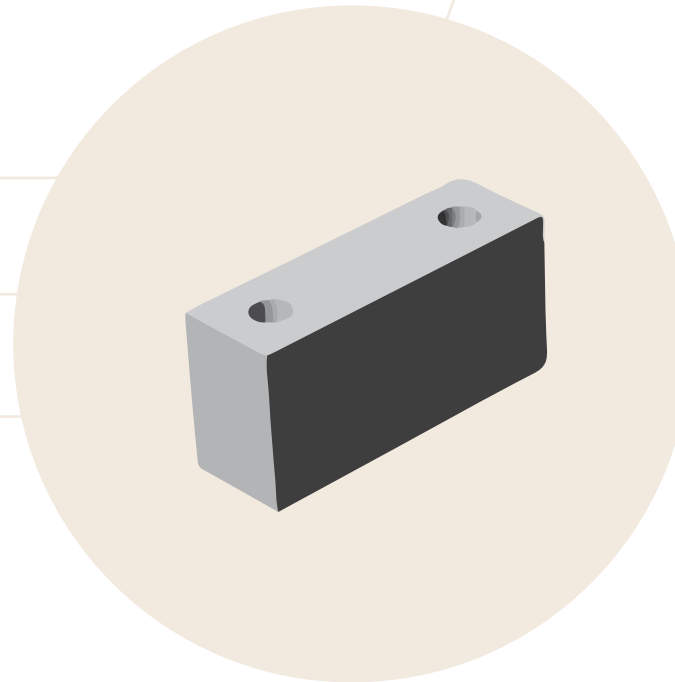
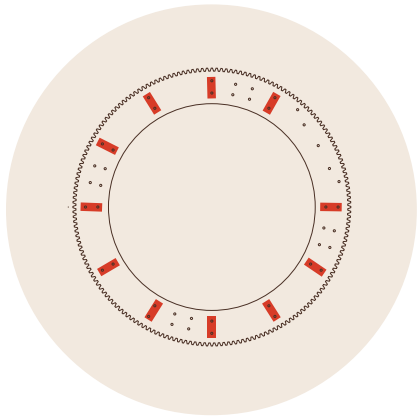
4 x Small bearings' holder

each bearing use:
1 x M5,DIN912 hex screw, 25mm
4 x M3,DIN912 hex screw, 12mm



Big bearings' holder

each bearing use:
1 x M5,DIN912 hex screw, 25mm
2 x M3,DIN912 hex screw, 12mm



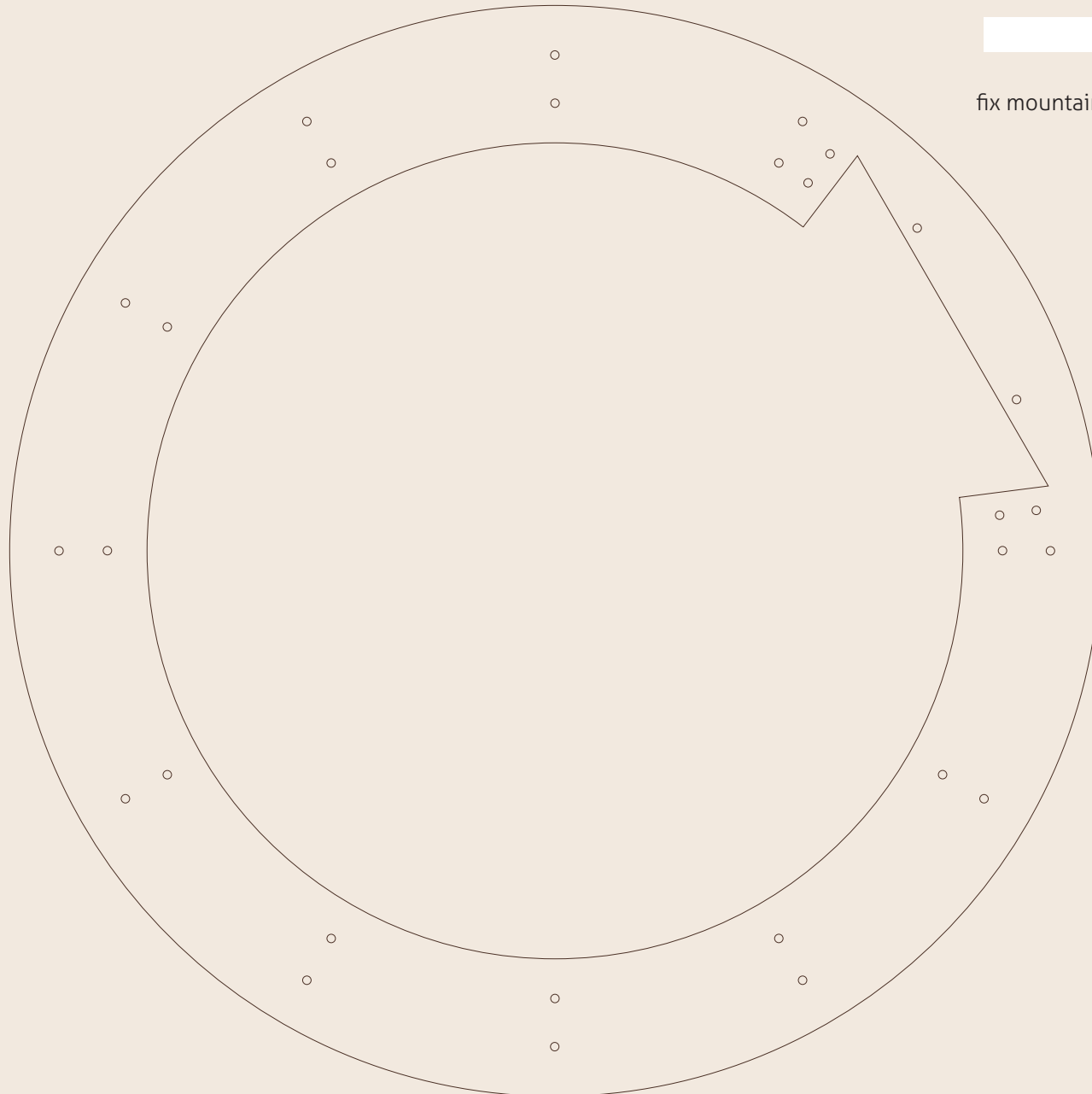
11 x Connector

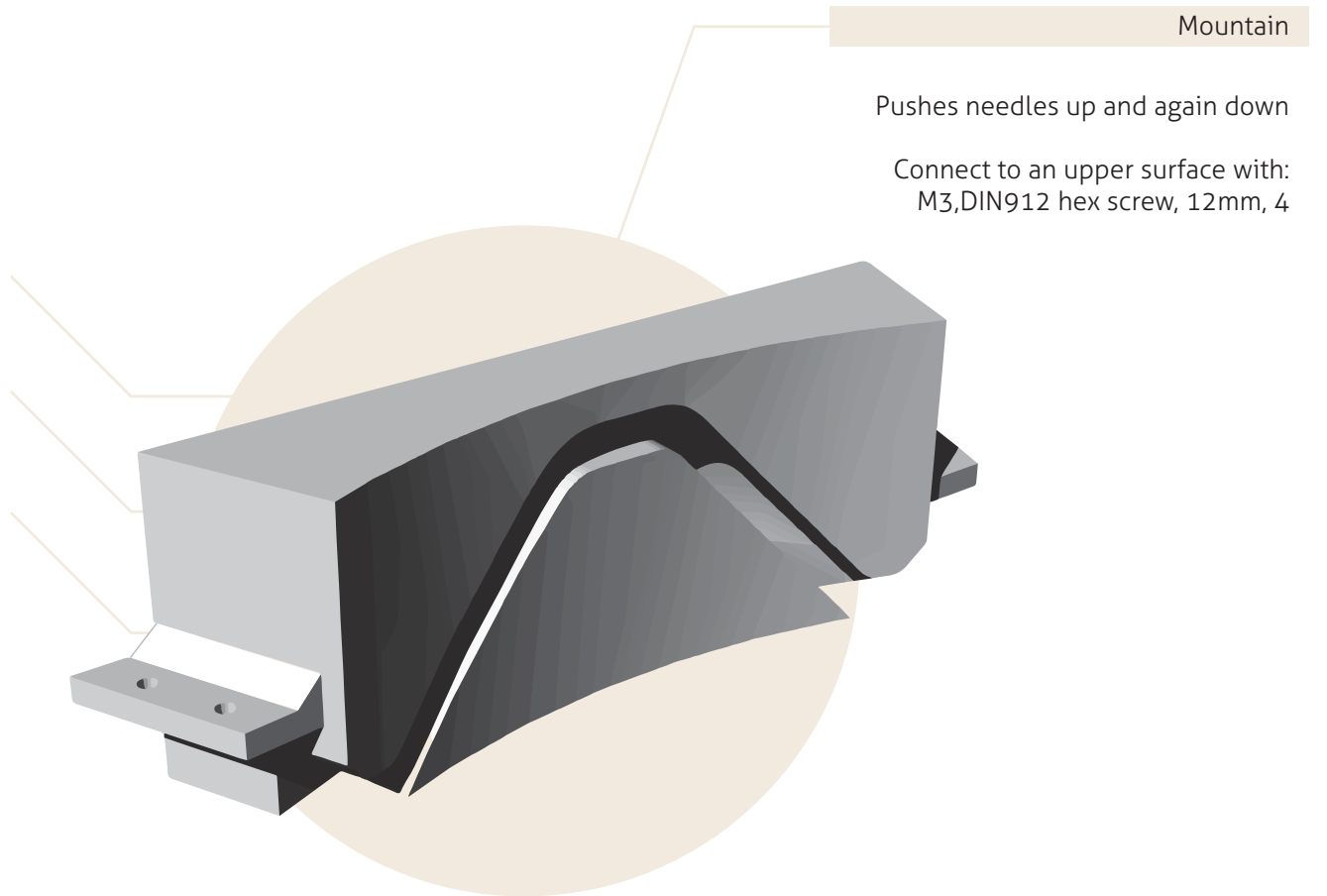
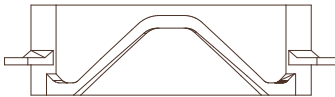
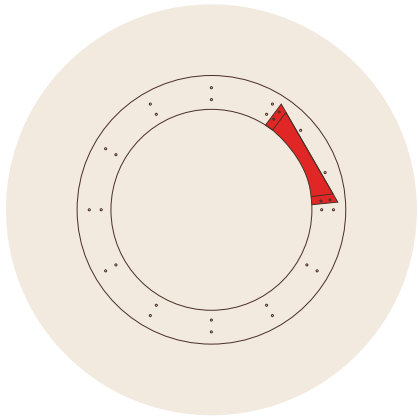
connects upper and bottom plates

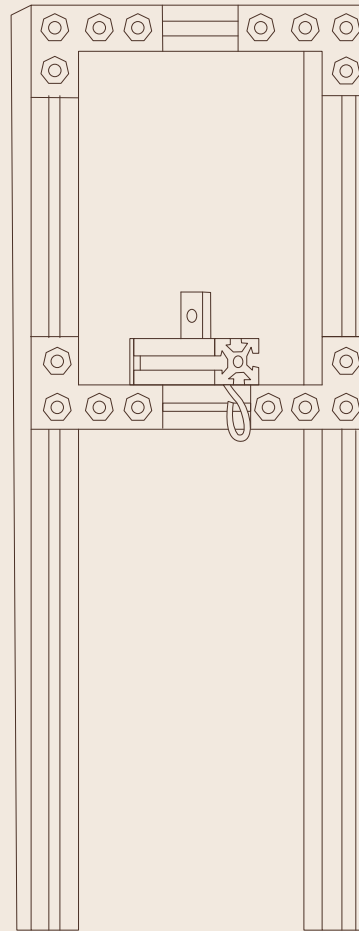
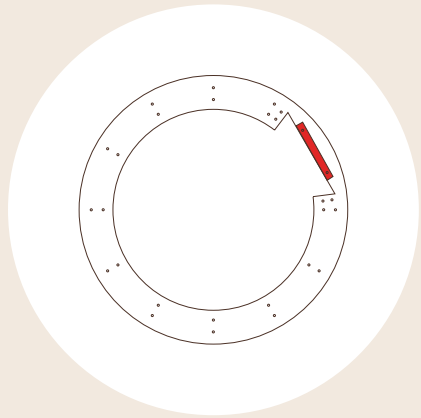
Connect to an upper surface with:
M3, DIN912 hex screw, 30mm, 22

Upper surface

fix mountain and makerbeam parts here





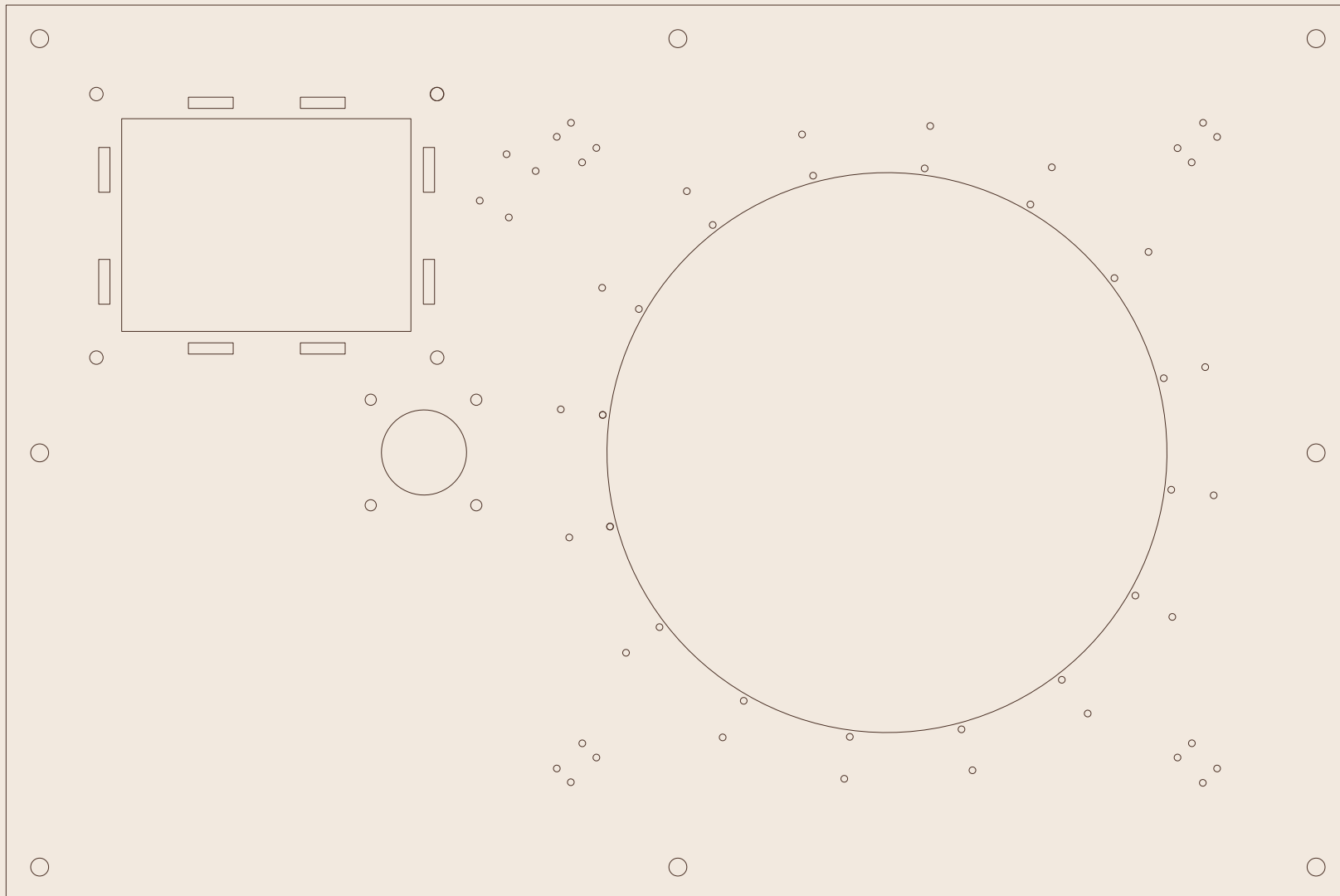


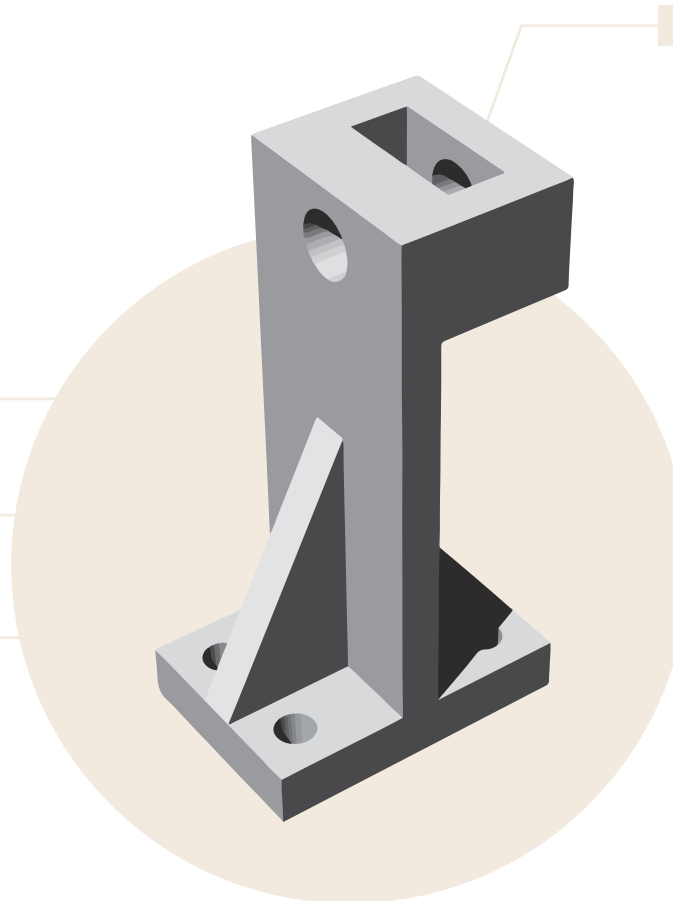
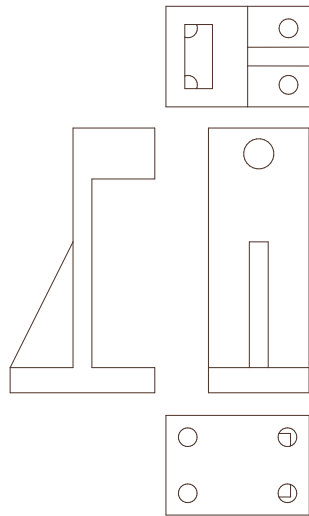
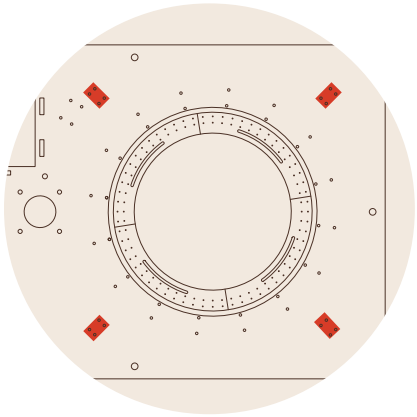
Yarn-feeder

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

Connect to a plate with:
M3,DIN912 hex screw, 12mm, 3;
Use makerbeam Lshape x 4;
makerbeam screws, 15

here will be mounted all the machine parts





4 x Z-shape

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

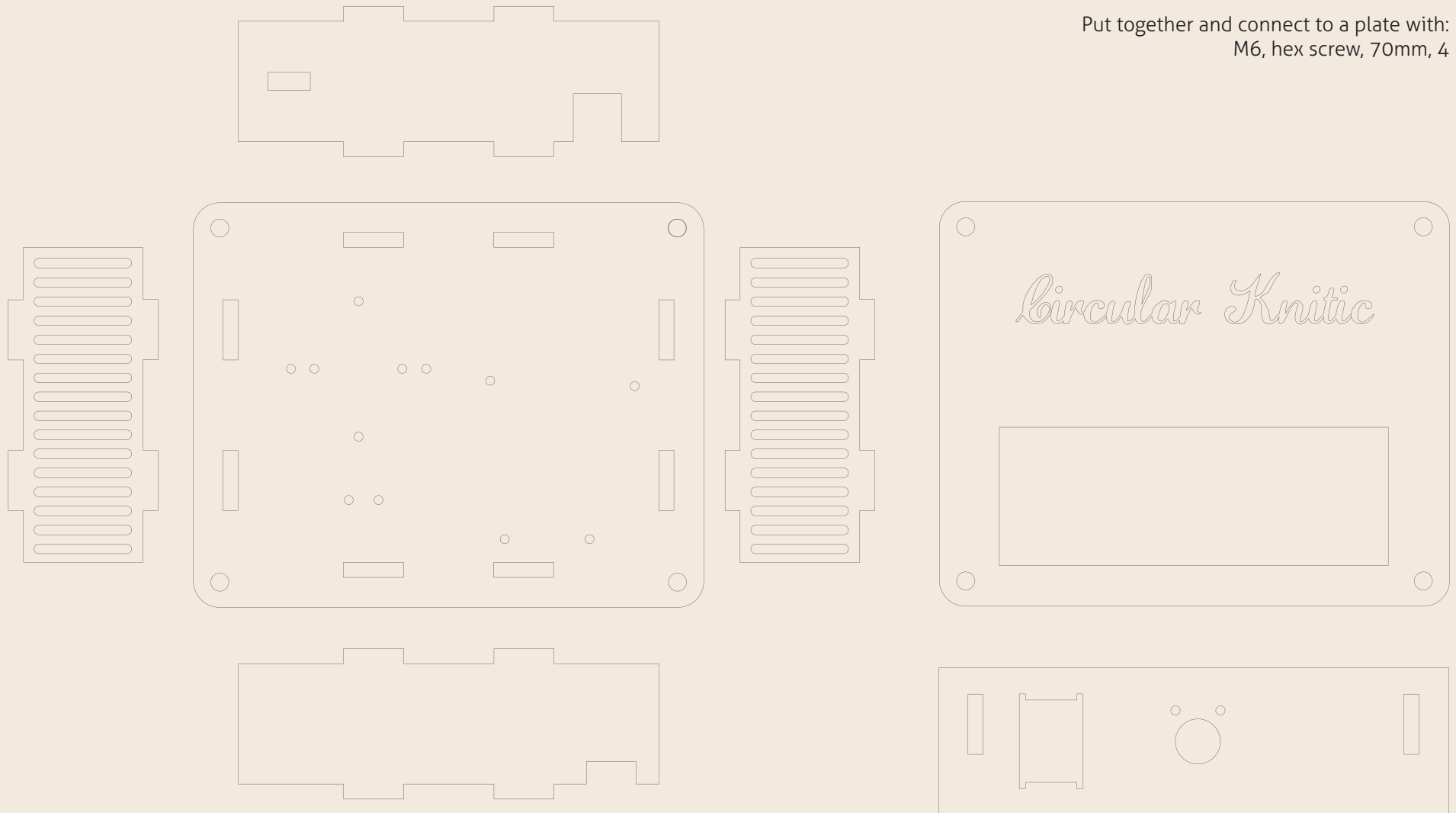
Place a bearing with: M5,DIN912
hex screw, 16mm, 4.

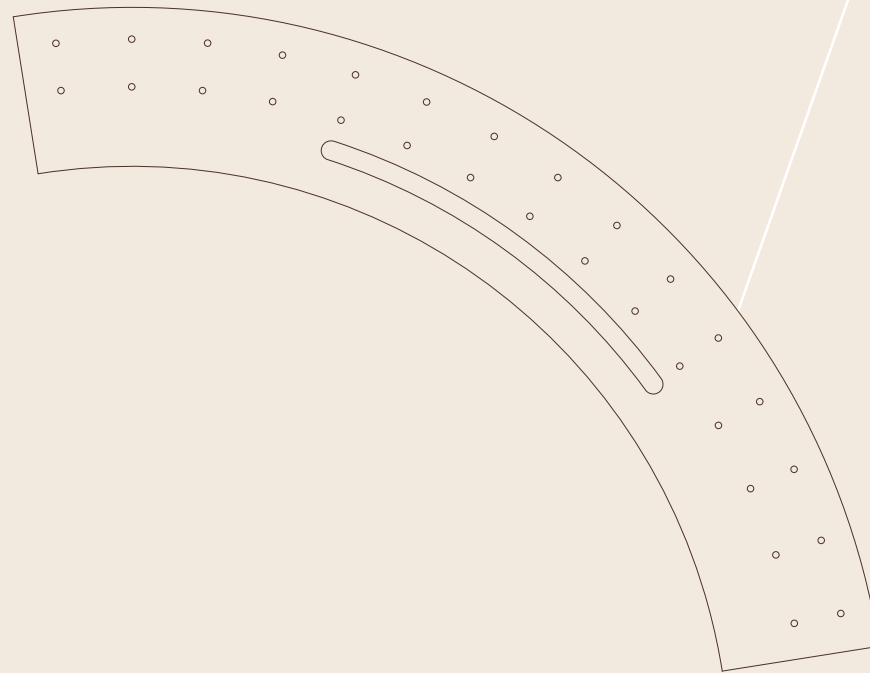
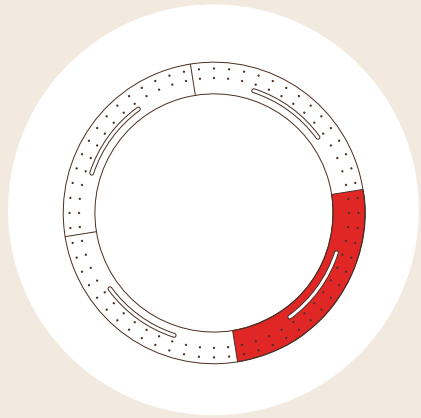
Connect to a plate with M3,DIN912
hex screw, 12mm, 16;

Box of electronics

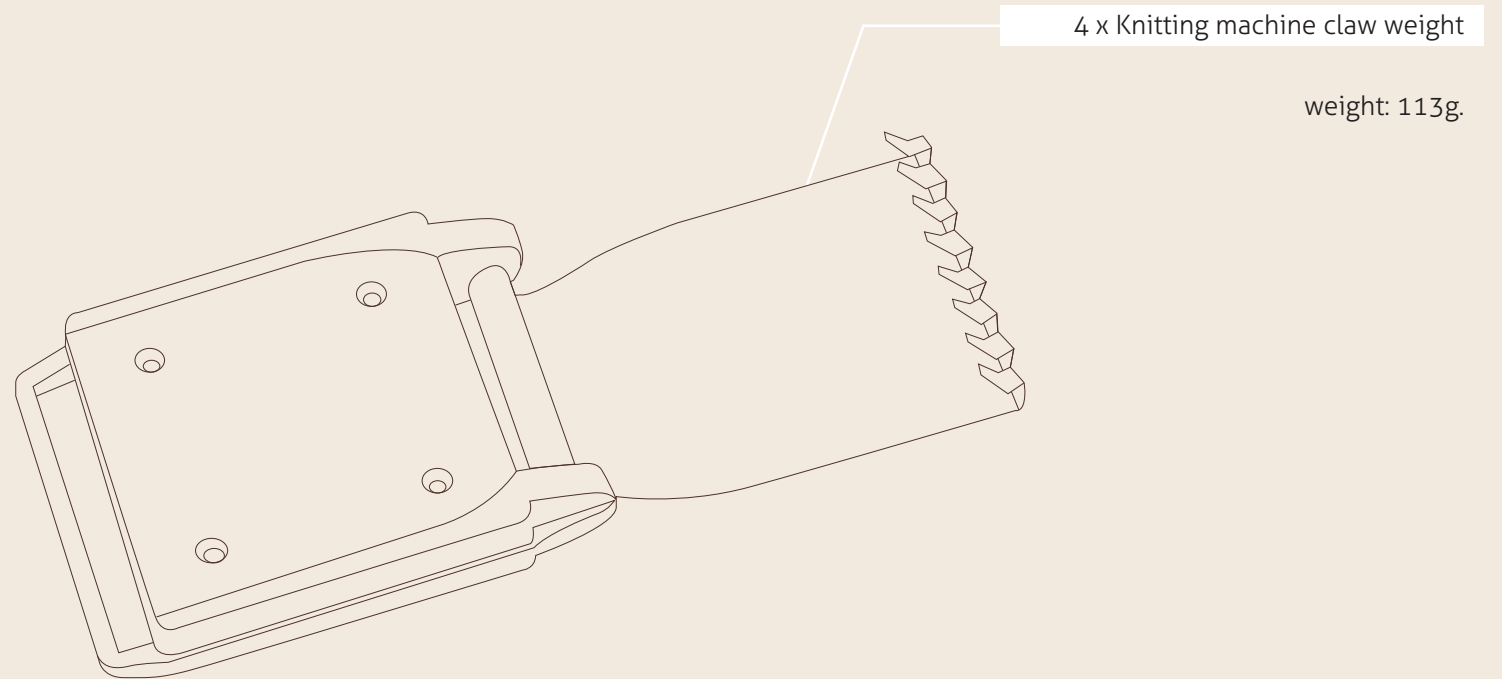
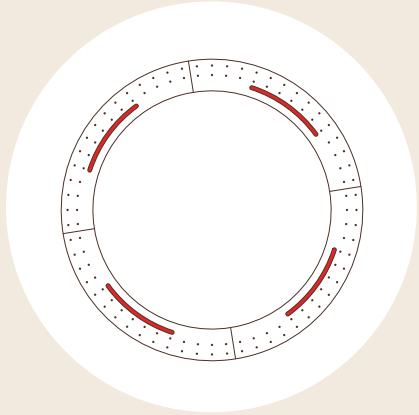
here goes all the cables, basically: stepper motor driver, ventilator, switch, potentiometer, arduino, etc.

Put together and connect to a plate with:
M6, hex screw, 70mm, 4



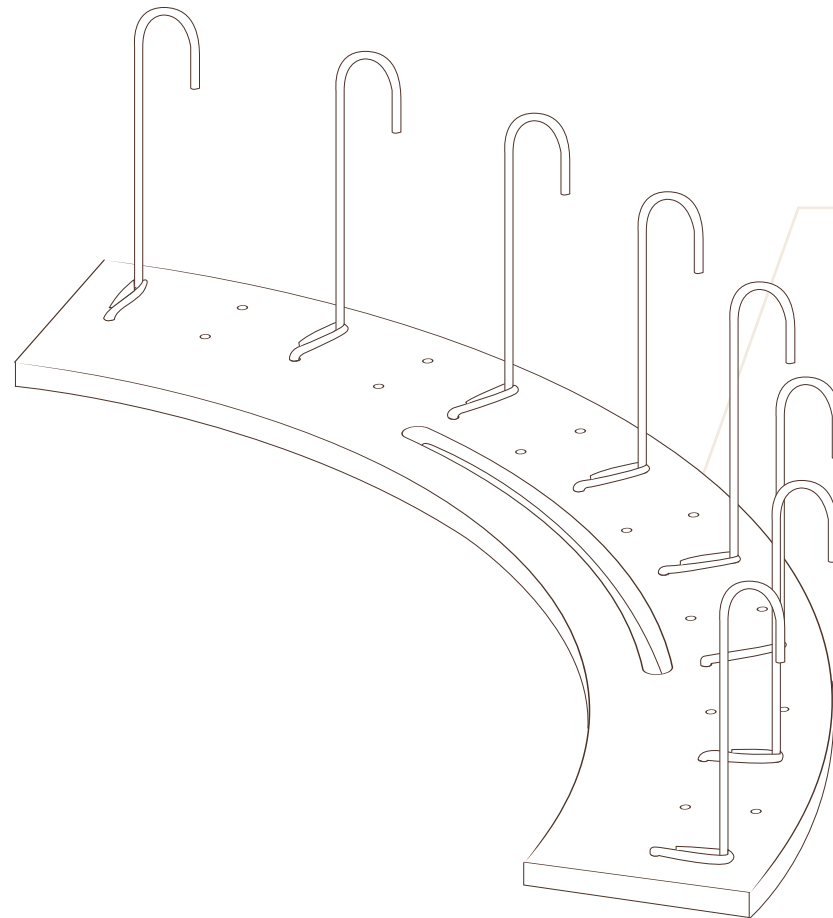
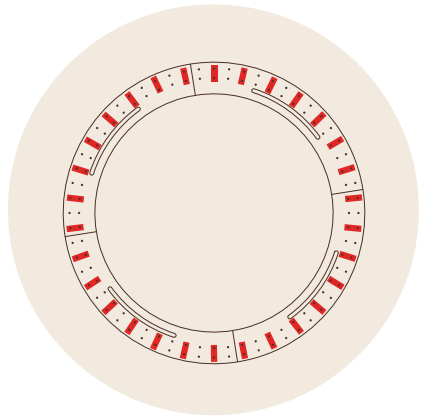


4 x weight holder



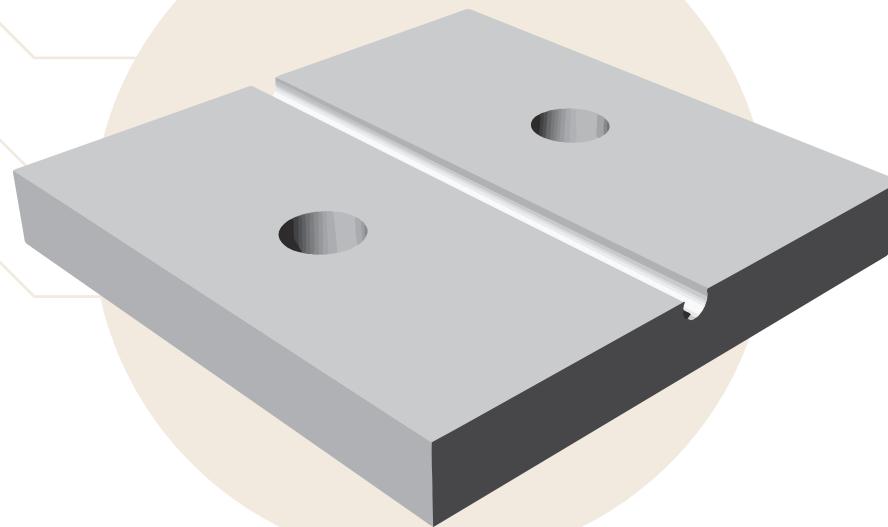
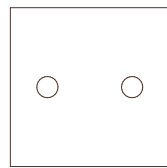
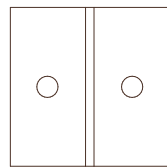
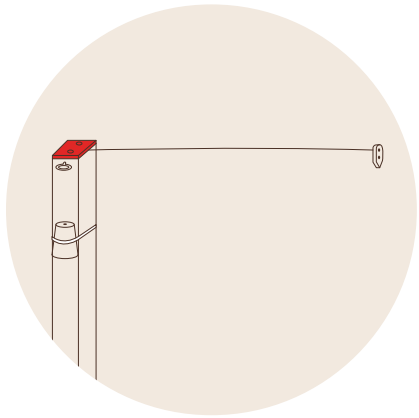
4 x Knitting machine claw weight

weight: 113g.



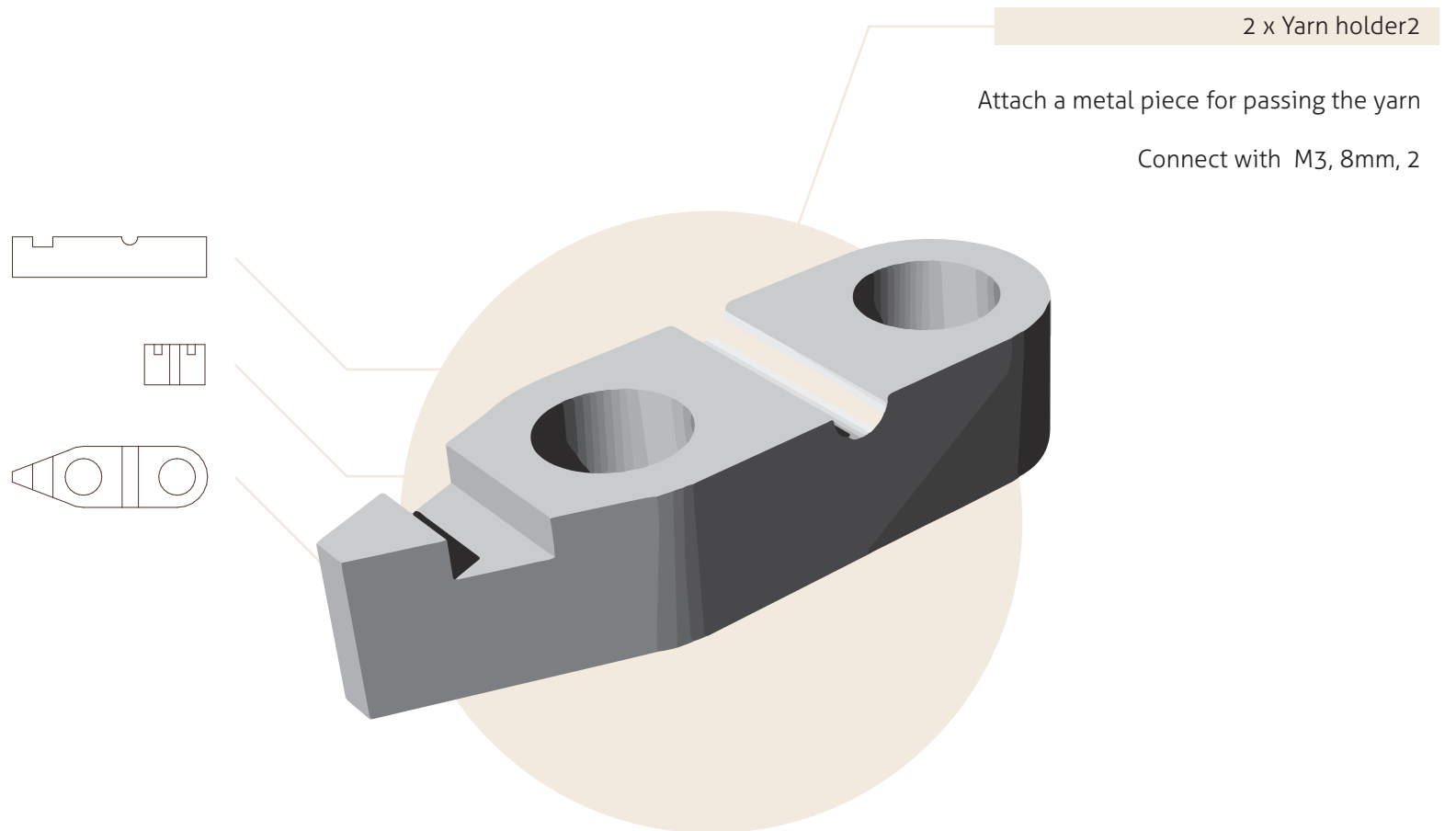
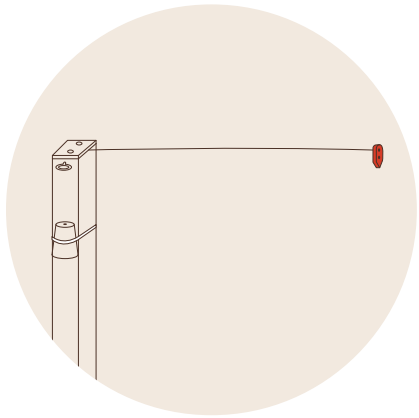
30 x Paper clip

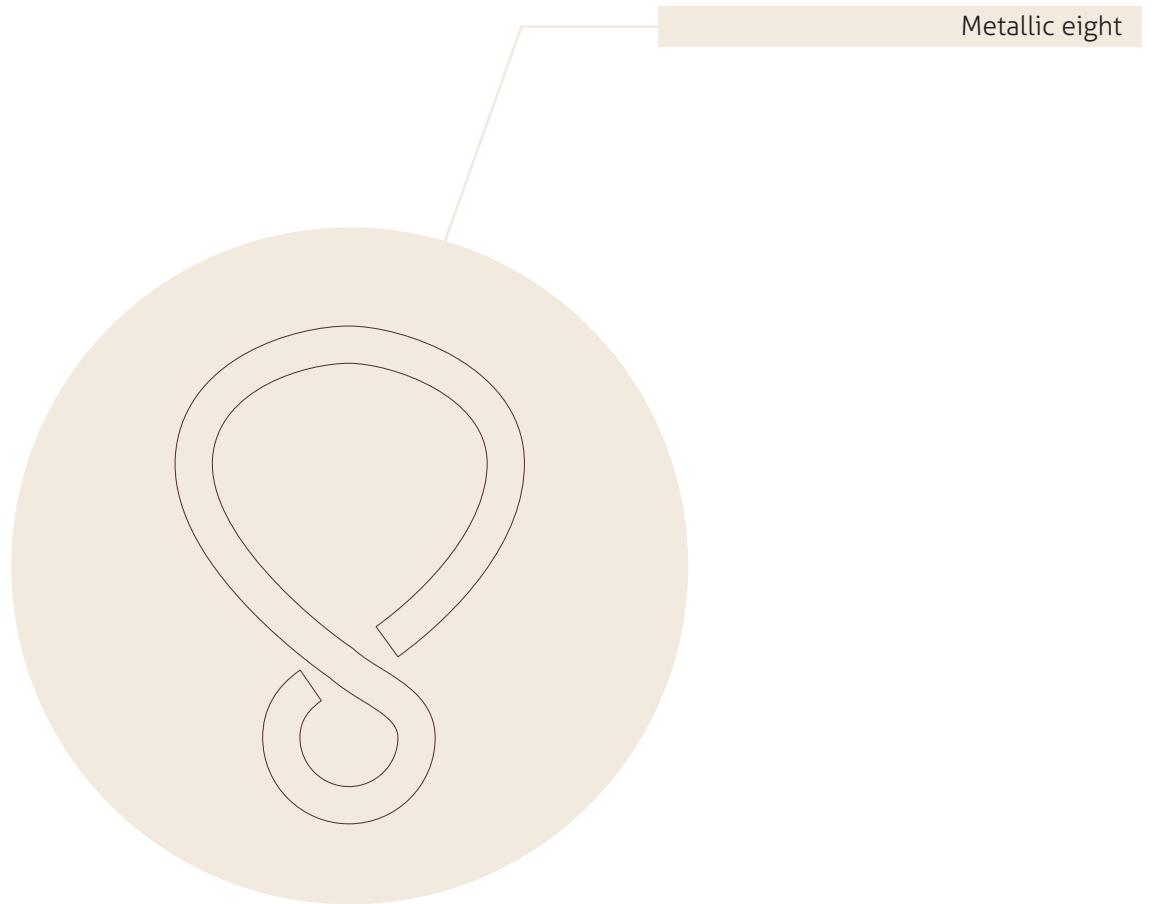
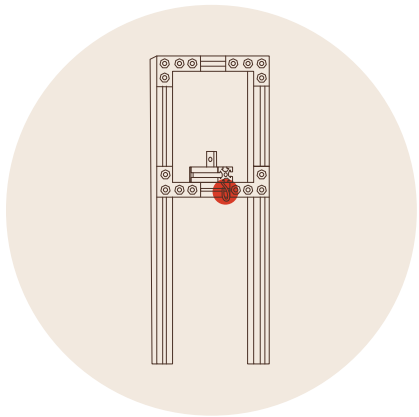
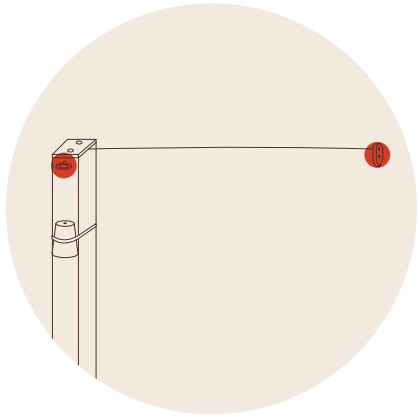
long: 50mm.



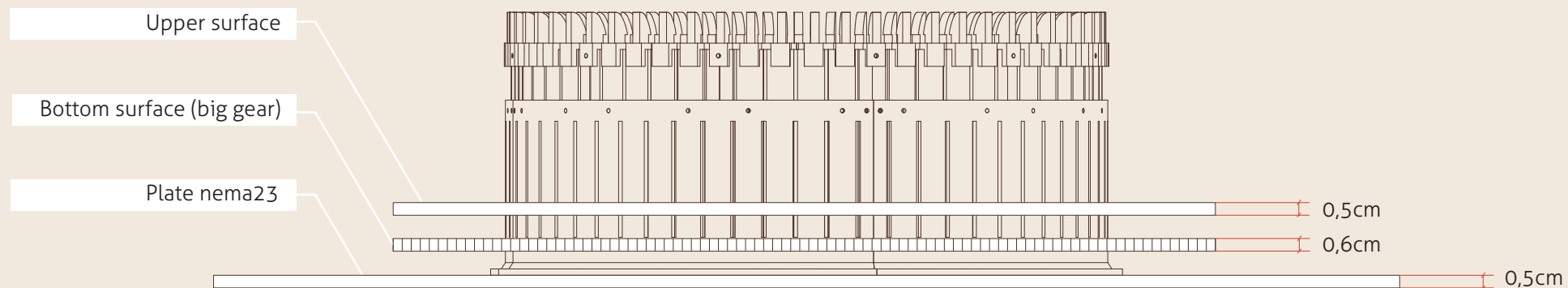
Stick holder

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

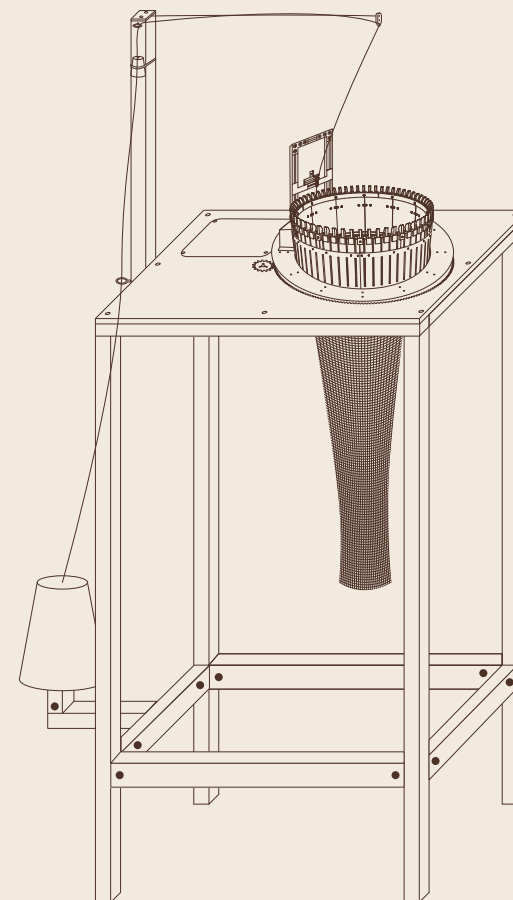
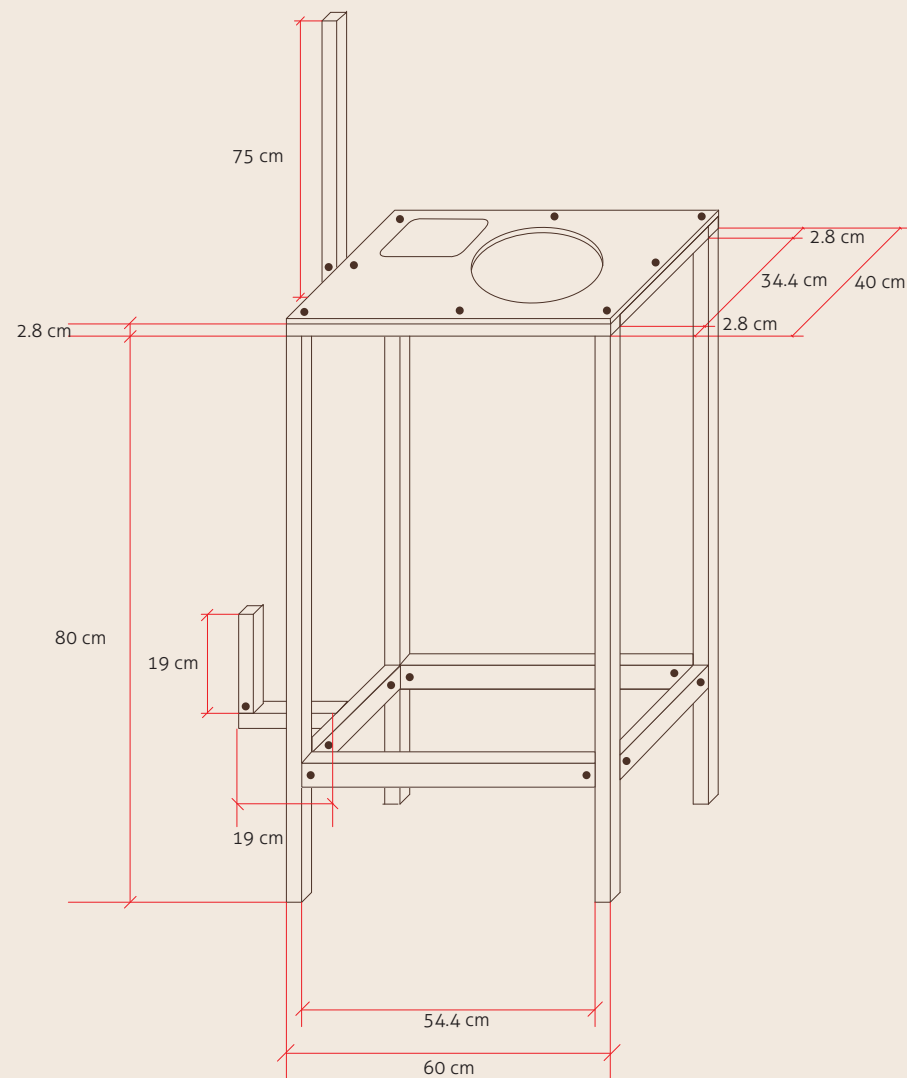




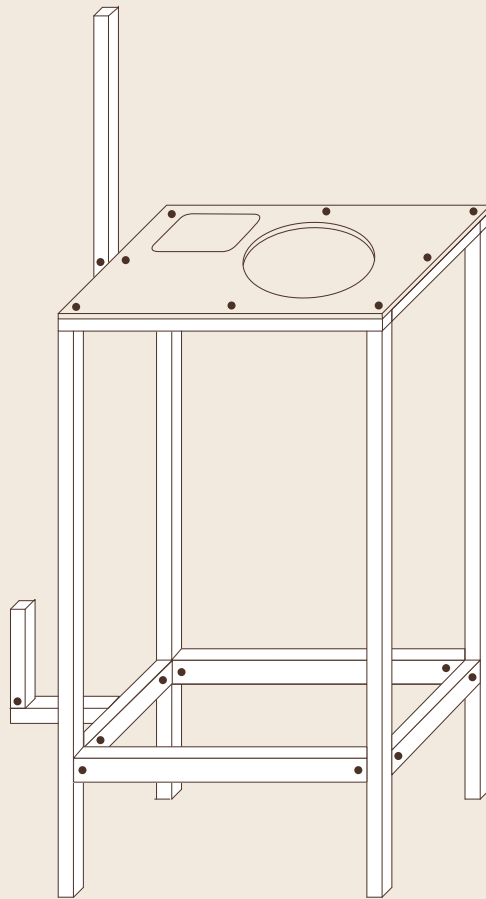
thickness: plate and surfaces



Circular Knitic table




Wood parts to create the machine frame




 80cm x 2.8cm (4 pieces)

 60cm x 2.8cm (2 pieces)

 54.4cm x 2.8cm (2 pieces)

 34.4cm x 2.8cm (4 pieces)

 18cm x 2.8cm (2 pieces)

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
3,0	hospa screws	20mm	94	mount wood frame
Others				
	metallic angle	30x30 x 15 x 2cm	25	mount wood frame



Curated by

David Cuartielles

20th December 2014 - 31th July 2015

Commissioned by

eTOPIA_
center for art
& technology



Zaragoza
AYUNTAMIENTO

More info:

www.knitic.com - www.var-mar.info

Catalog design: Jesús Rodríguez