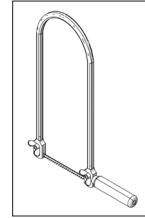
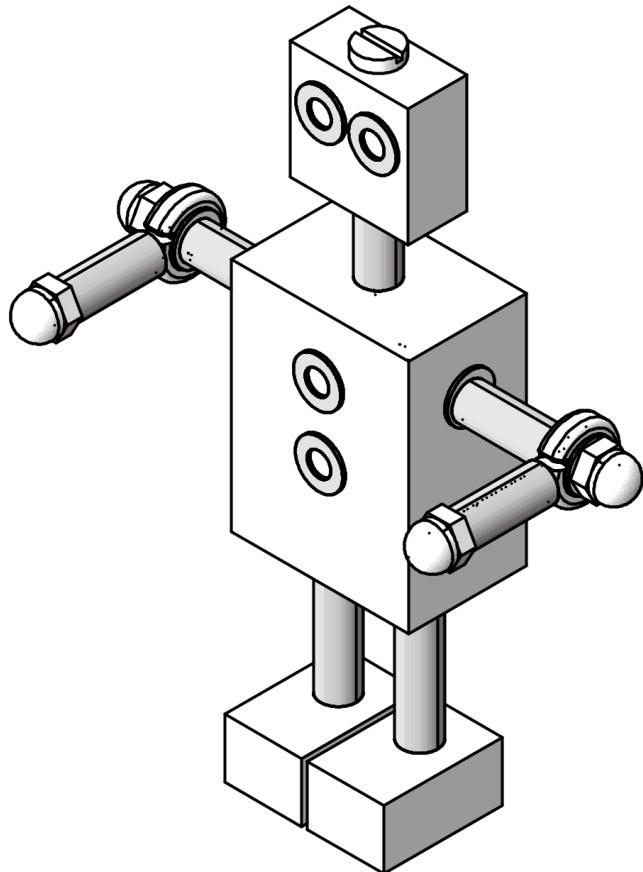
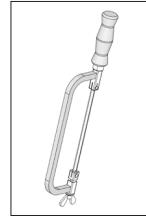


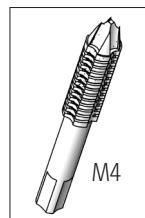
Metal Robot

Tools Required:

 scroll saw
with metal
saw blade


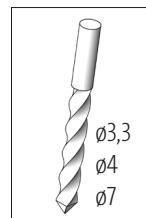
hacksaw



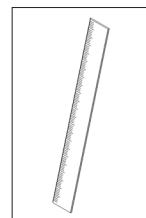
engineer's file



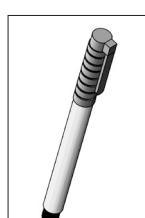
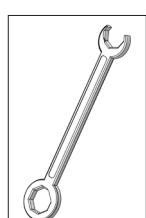
tap drill



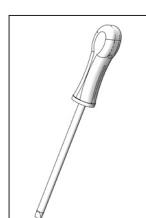
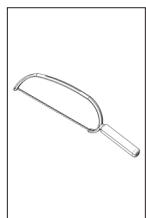
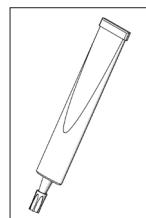
drill



ruler


 coloured
pencil


wrench


 slot screwdri-
ver

 handsaw with
metal saw
blade


superglue

Please Note

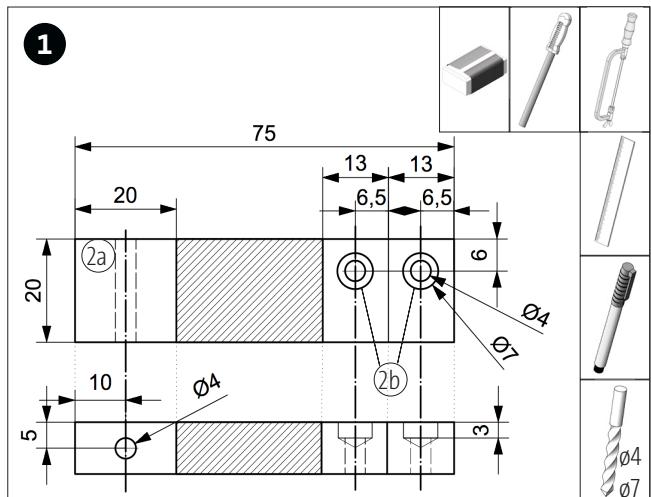
The OPITEC handicraft packs are not toys in a typical off-the-shelf sense, but rather additional teaching and learning material for educational purposes. This craft pack may only be constructed by children and adolescents under the guidance and supervision of experienced adults.

Not suitable for children under 36 months. Choking hazard!

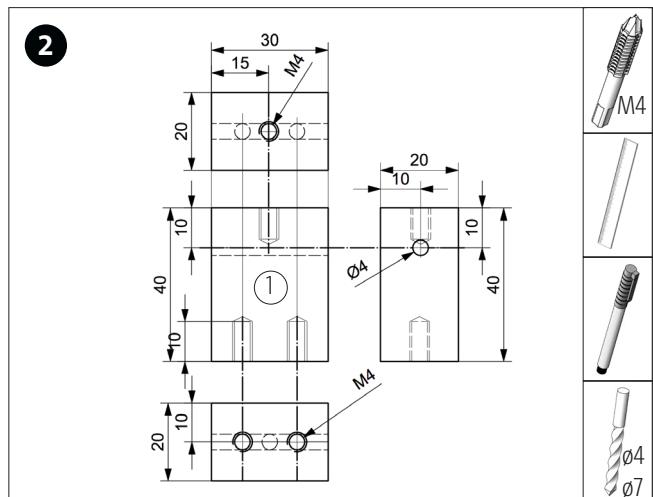
Parts List	Quantity	Size (mm)	Designation	Part No.
aluminium square	1	40x30x20	corpus	1
aluminium square	1	75x20x10	head/ legs	2
threaded rod	1	M4x100	arms	3
brass tube	1	ø6x245	arms / neck / legs	4
iron threaded eyelet	2	M4x20	arms	5
washer	10	4,3/9	washer	6
cap nut	4	M4	connection arms	7
cylinder head screw	3	ø4x40	neck/arms	8

Instruction 118772

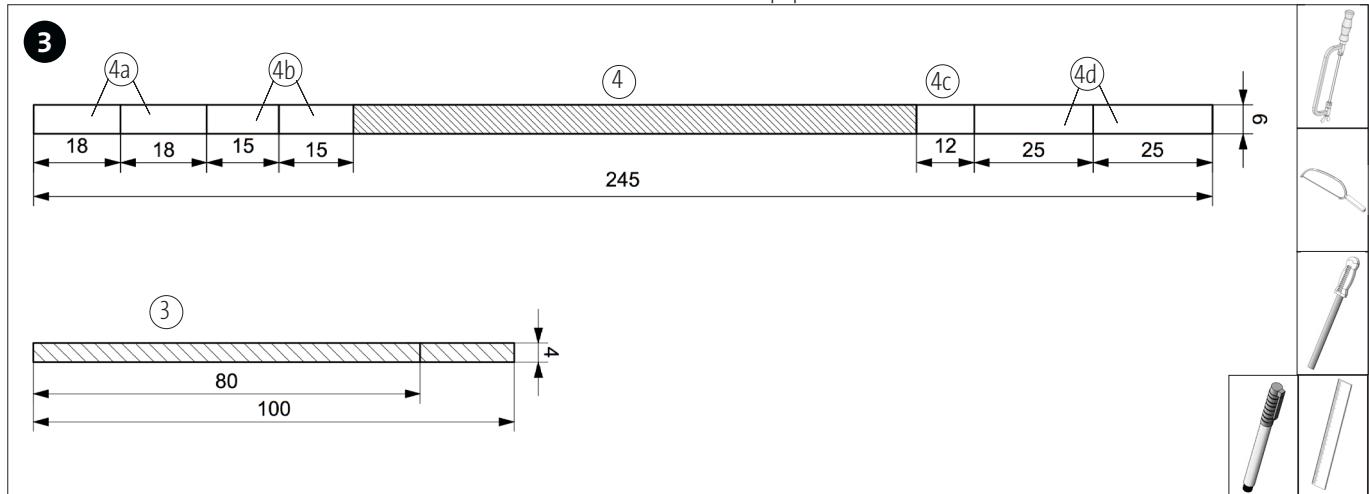
Metal Robot



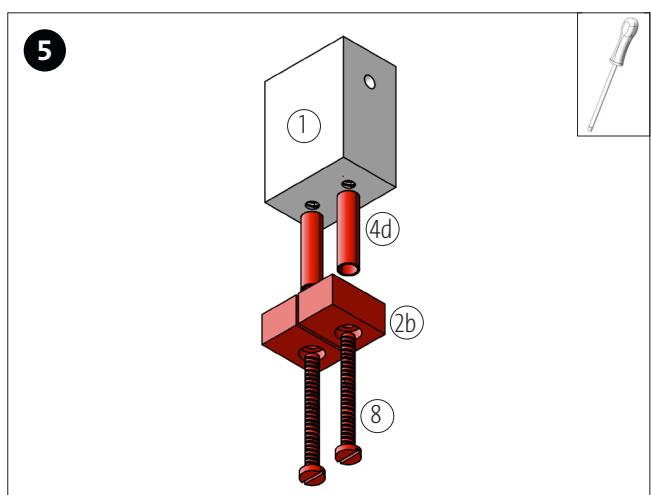
Cut the parts (2a+2b) from the aluminium square (2) according to the size with the metal hacksaw. Then drill a Ø 4 mm hole in the head (2a) and the feet (2b). Drill a blind hole (Ø 7) 3 mm deep in both feet. Finish or sand the surface afterwards.



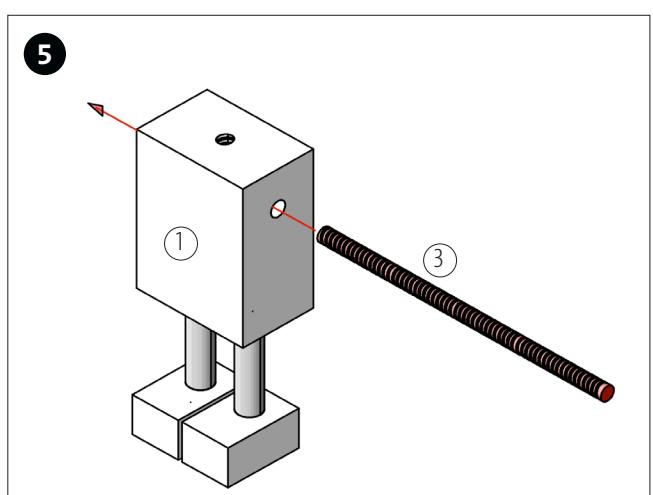
Mark the position of the holes in the body (1) according to the dimensions. Pre-drill the M4 threads with $\varnothing 3,3$ mm. Then cut the M4 threads. Drill through the $\varnothing 4$ mm hole. Finish the surface with a file or sandpaper.



Mark the parts (4a-4c) on the brass tube and cut to length with the metal hacksaw or the handsaw with metal saw blade and deburr the saw cuts. Shorten the threaded rod (3) with the metal hacksaw to 80 mm and deburr.

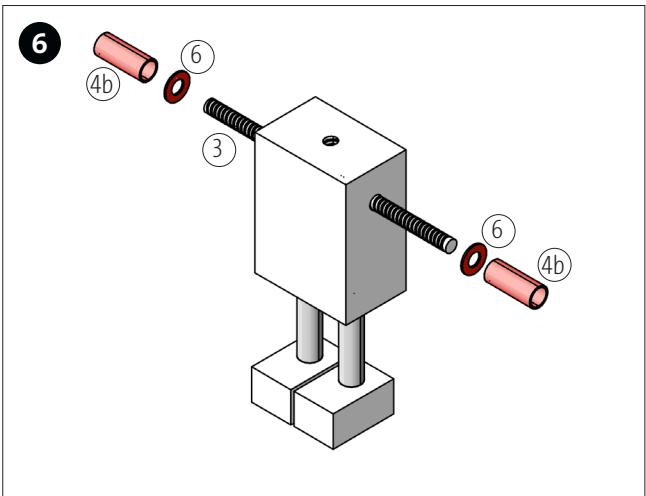


Screw the two foot parts (2b) with the blind hole facing downwards into the threaded holes in the body (1) from below by using a screw (8) and the two brass tube parts (4b).

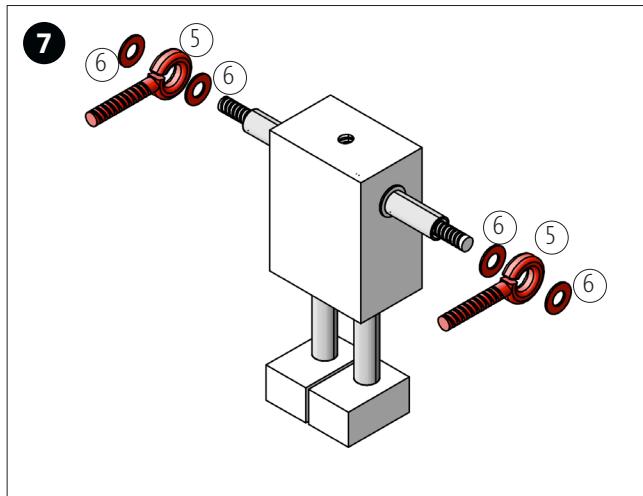


Slide the threaded rod (3) through the side hole in the body (1) as shown and center it.

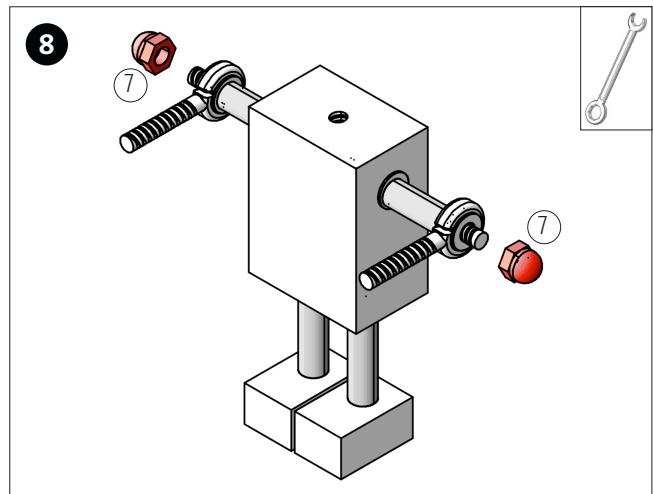
Instruction 118772
Metal Robot



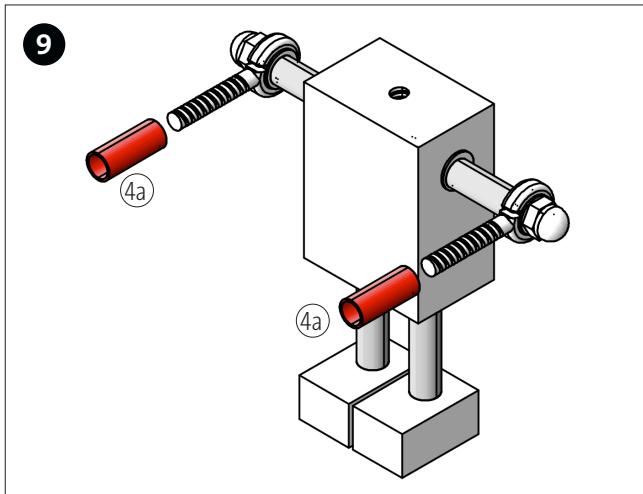
Place one washer (6) and the brass tube parts (4b) on each side of the threaded rod (3).



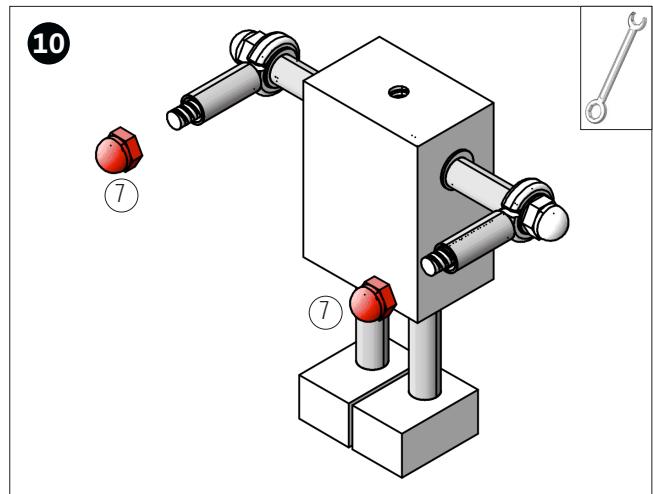
Attach one washer (6), one threaded eyelet (5) and one additional washer (6) from each side as shown.



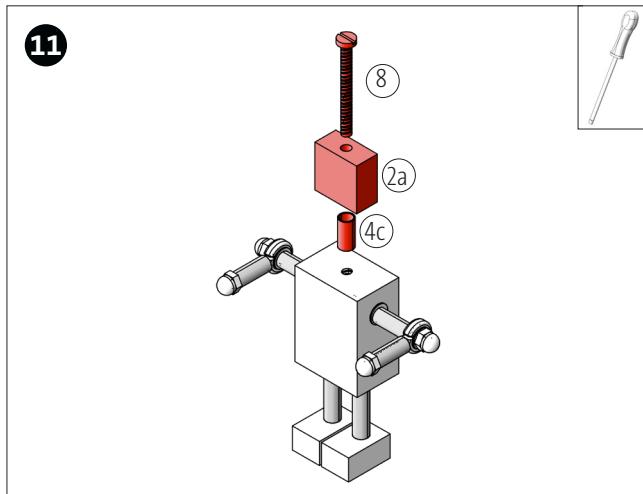
Fix from both sides with one cap nut (7) each.



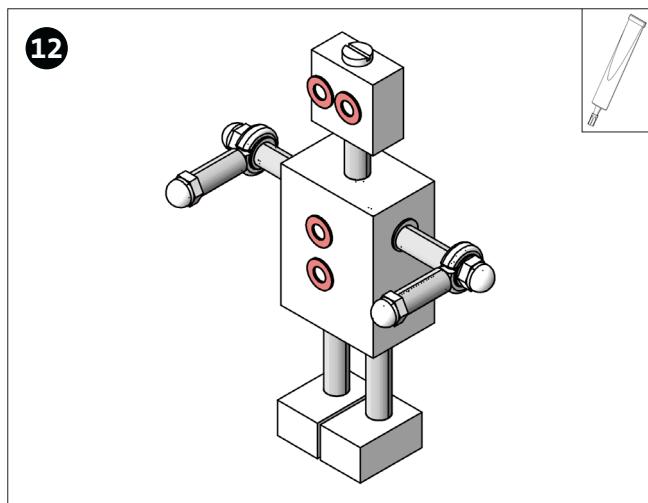
Then attach the two brass tube parts (4a) from the front.



For fixing screw on a cap nut (7) on both sides as illustrated.

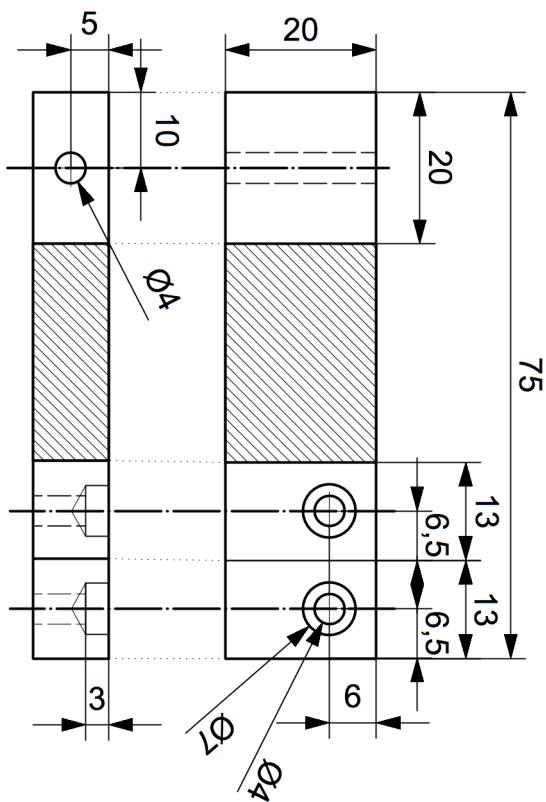


Screw the head (2a) onto the body (1) with a screw (8) and part (4c) as shown.



Stick the remaining washers with superglue as eyes and buttons.
Finished!

Template Head and Feet
S1:1



Template Body
S1:1

