

PARTS LIST

PRE-CUT MAKER KIT, MAKER KIT and XL MAKER KIT parts



L-twisted bracket pg. 15.



L-twisted adj. bracket pg. 20.



Nylon nut M3 pq. 20.



2-hole bracket pq. 9, 21.



L-twisted mirror bracket pg. 15.



L-twisted mirror adj. bracket pg. 20.



Nylon Standoff M38mm pg. 20.



2-hole 90 bracket pg. 8.



2-hole simple bracket pg. 9, 10.



Bolt M3x12 pg. 19.



Double side filler pg. 12.16.



2-hole 45 bracket pg. 12.



2-hole 45 simple bracket pg. 13, 21.



Bolt M3x6 commonly used.



Single side filler pg. 13,14.





L-bracket pg. 16.



Nut M3 6x10 commonly used.





Beam 400 mm Swan 90x45



45x90 mirror bracket pg. 14.



Strip Bracket (200 mm) pg. 22.



Board 100x100 mm pg. 19.



mirror bracket pg. 16.

Swan 90x45

bracket

pg. 16.



3-hole bracket pg. 11, 17.



Bolt M3x8 pg. 11.



45x90 bracket pg. 14.



3-hole 45 bracket pg. 18.



Nut M3 5.5x5.5 pg. 11.



TOTEM TOOLS

Beam Cutter

In MAKER KIT and XL MAKER KIT only

- Attaches to the table.
- Ruler.
- Friendly for left-handed use.



Board Cutter

In MAKER KIT and XL KIT only

- Straight or 45° angled cuts depends on the side of the ruler.
- Ruler pins fits into the grid of the board.



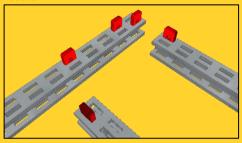
Magnetic Screwdriver

- Super strong magnetic grip bolt firmly stays on screwdriver even when shaking it.
- Makes things easier grab bolts and nuts from the compartment box with the magnet.

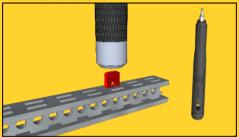


TOTEM Hints and Tips

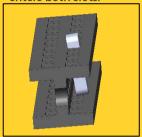
1. Good idea to start with putting nuts into slots.



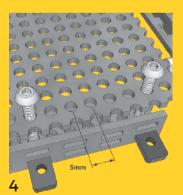
2. Use back of the screwdriver to push the nut into the beam.



3. Make sure the nut enters both slots.

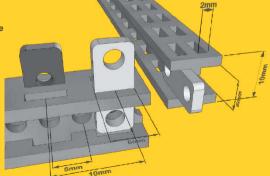


TOTEM GRID



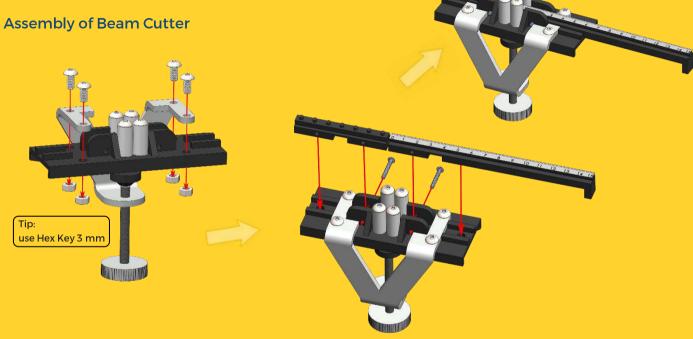
The geometry of Totem is so that brackets and nuts are 2x6 mm profile, and they fit into the beams in 2 directions.

5mm and 10mm grid is also present in Totem boards. The holes are 5mm apart, and can be fitted to other Totem parts in many ways.



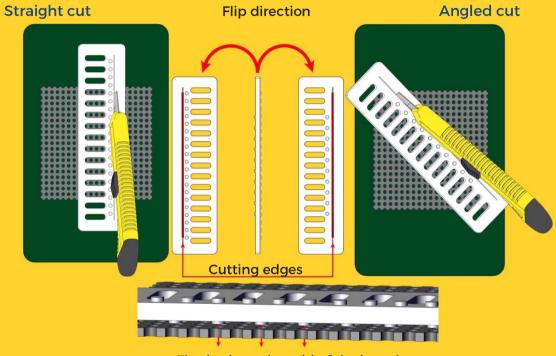


BEAM CUTTER

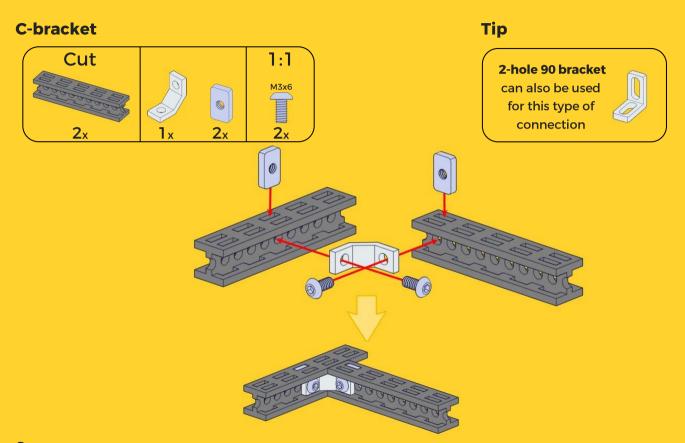


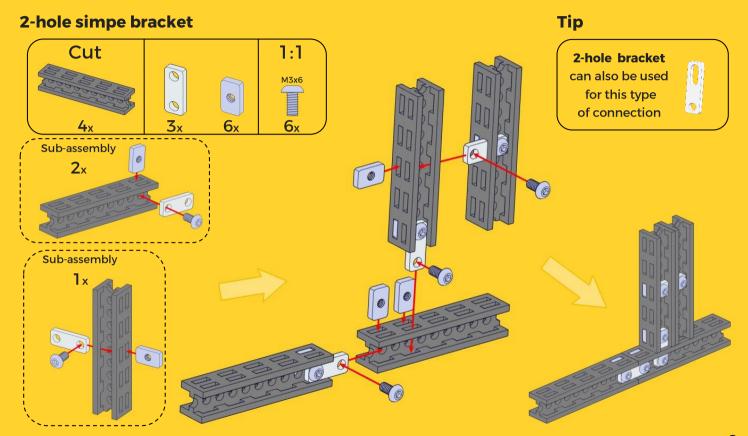


BOARD CUTTER

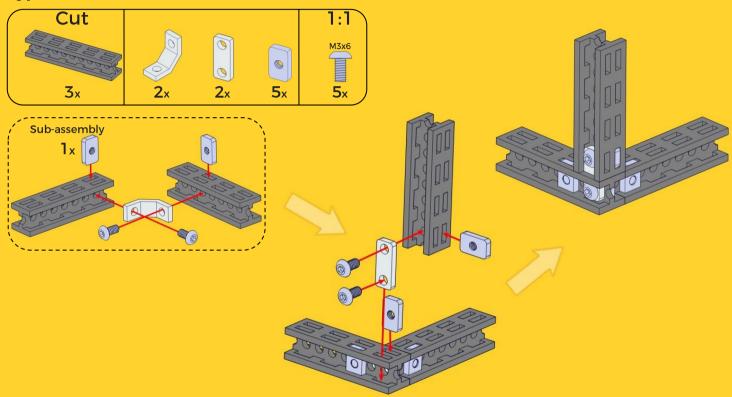


Fit pins in to the grid of the board

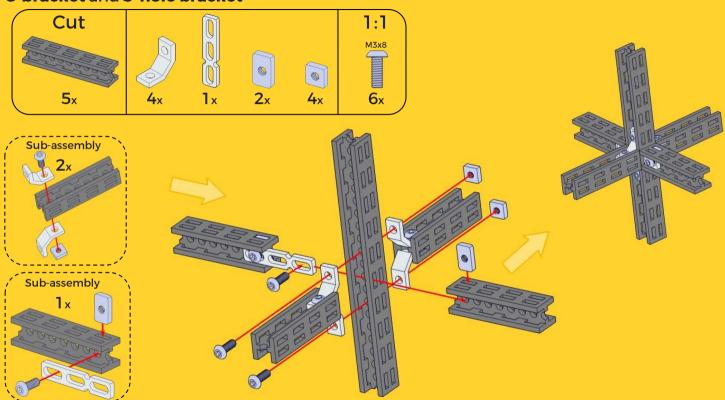




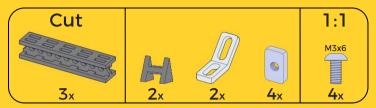
Typical C-bracket corner

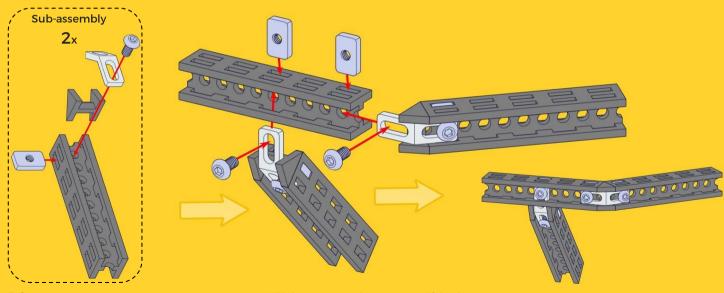


C-bracket and 3-hole bracket



2-hole 45 bracket

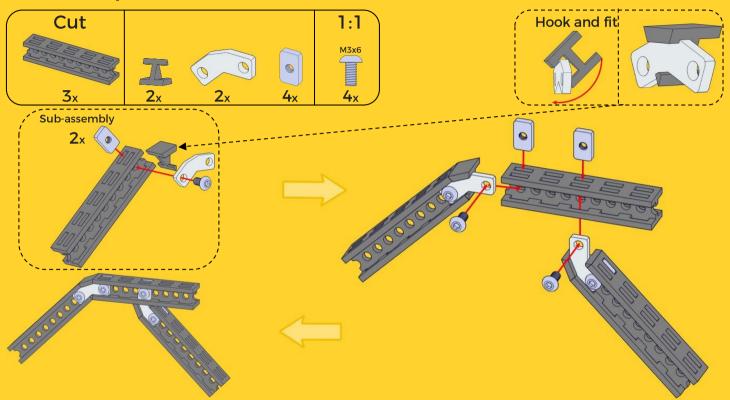




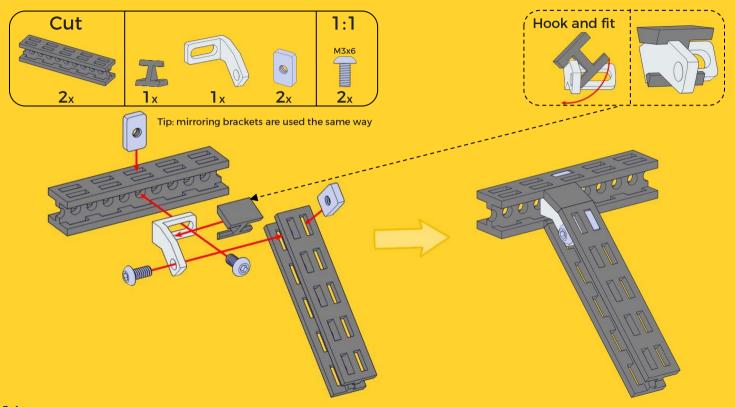
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NOTE: there are many other ways to use this bracket.

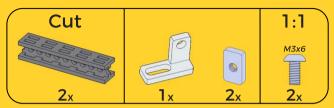
2-hole 45 simple bracket



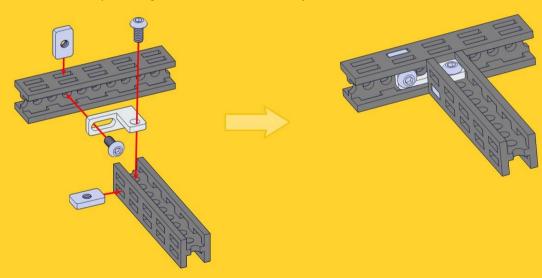
45x90 bracket



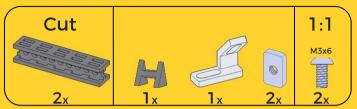
L-twisted bracket



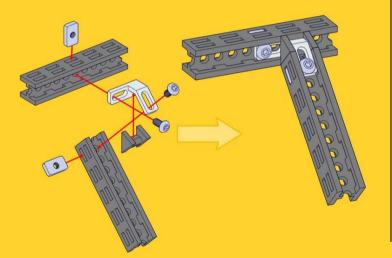
Tip: mirroring brackets are used the same way



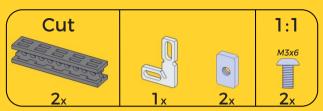
Swan 90x45 bracket

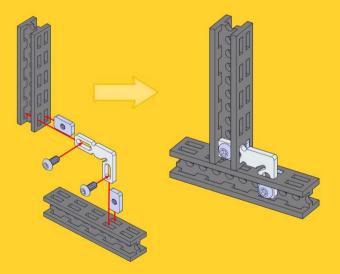


Tip: mirroring brackets are used the same way

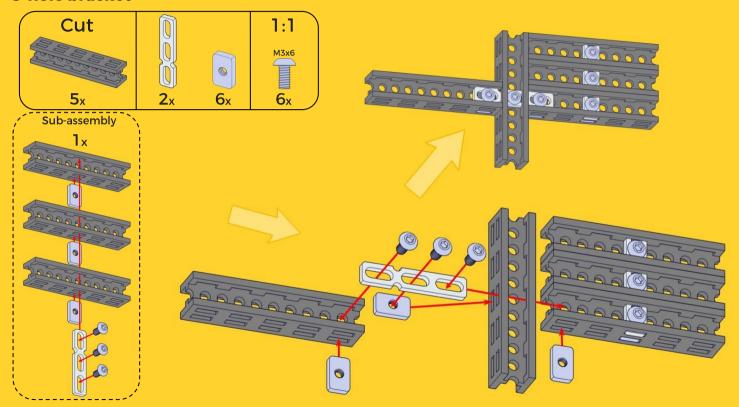


L-bracket

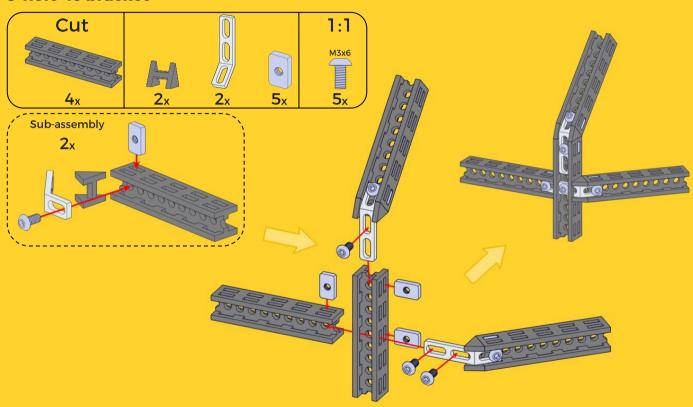




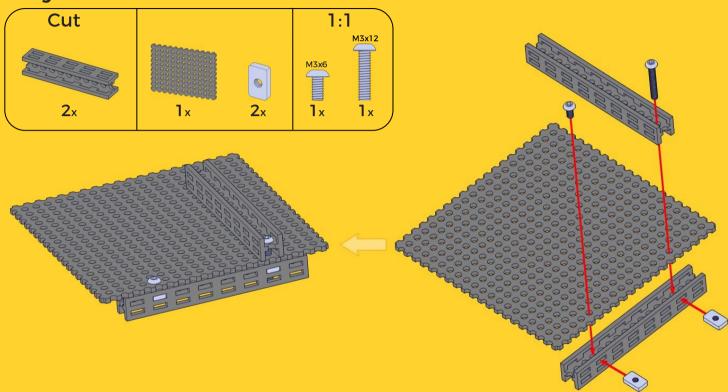
3-hole bracket



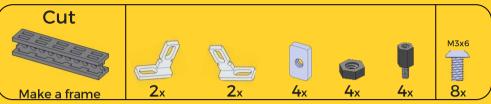
3-hole 45 bracket



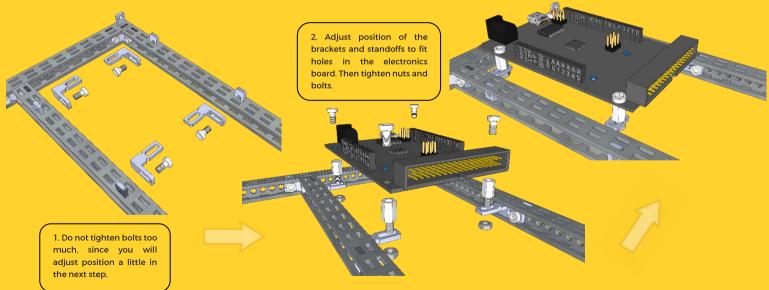
Using Boards





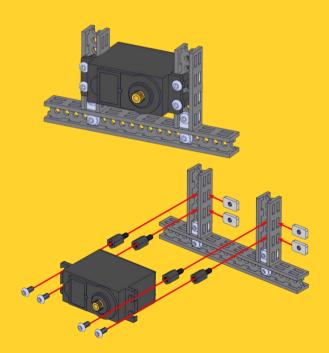


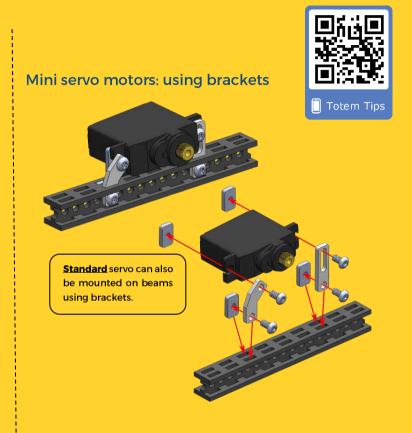




Tips of mounting motors

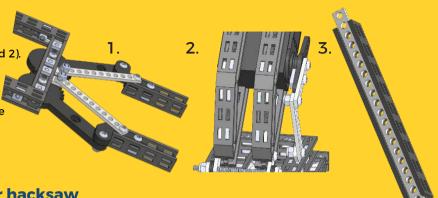
Standard servo motors: using standoffs





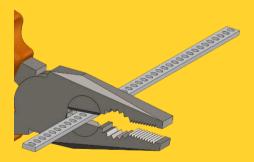
Using Strip brackets

- Perfect when building robotics (picture 1 and 2).
- Can be cut into any required length.
- Hole diameter: 3 mm.
- Holes can be drilled for 4 mm hardware.
- Strengthen the Beam: it perfectly fits into the track of the Beam and makes it even more sturdy (picture 3).



Cutting strip brackets: use pliers or hacksaw

Cutting with pliers

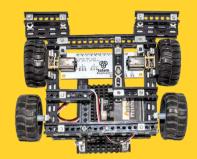




BRING YOUR IDEAS TO REALITY WITH TOTEM

ROBOTICS PROJECTS

Use Totem as a base for robotics projects.
Add motors, wheels, electronics and other parts.





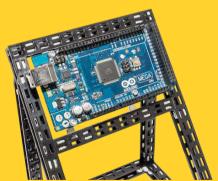
STRUCTURES FOR ELECTRONICS

Use Totem to build structures for electronics.
No more messy electronics.



More building tips and ideas.





Discover the joy of making

UPGRADE TO NO LIMIT



Caution: this is not a toy and is intended for use by or under the supervision of adults.

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