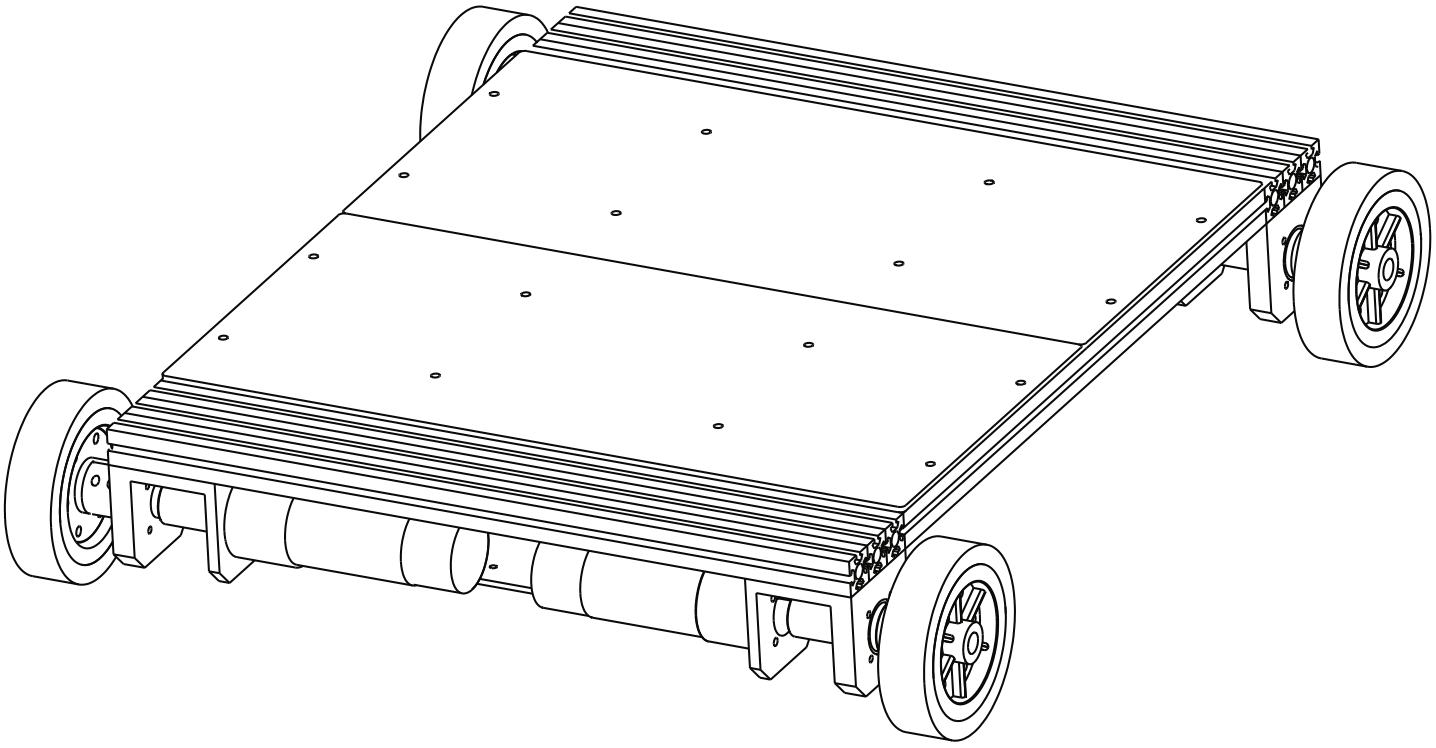
Built with Top Brands

EasyMech, SmartElex, Orange

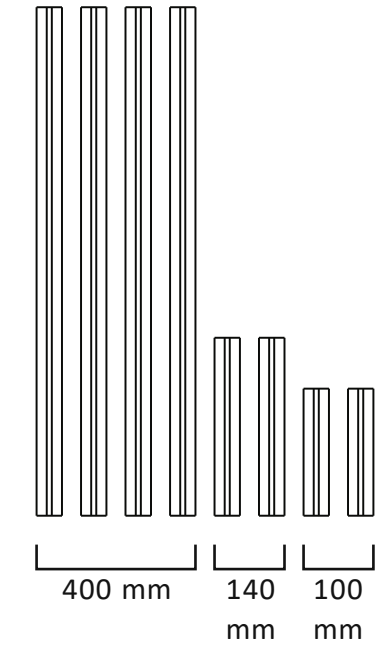
EasyMech Basic Shock Absorber Chassis

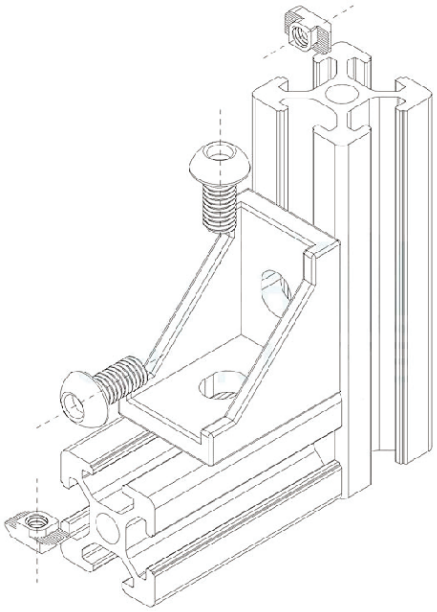
Assembly Guide



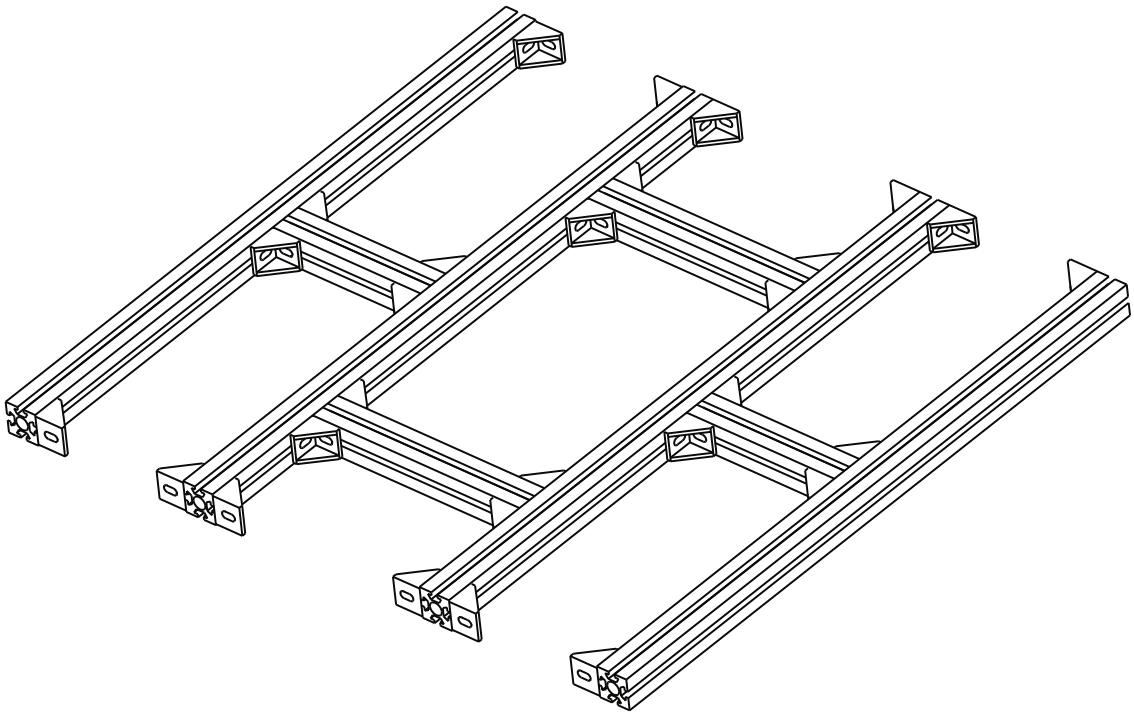
Made with Love in India

1. Firstly we will assemble the Chassis base frame. For that we will required 20x20 Aluminium Extrusion of length 400mm, 140mm & 100mm. Assemble the chassis base frame with the help of Corner bracket, T nut & Button headed screws as per dimensions. (Refer fig.)



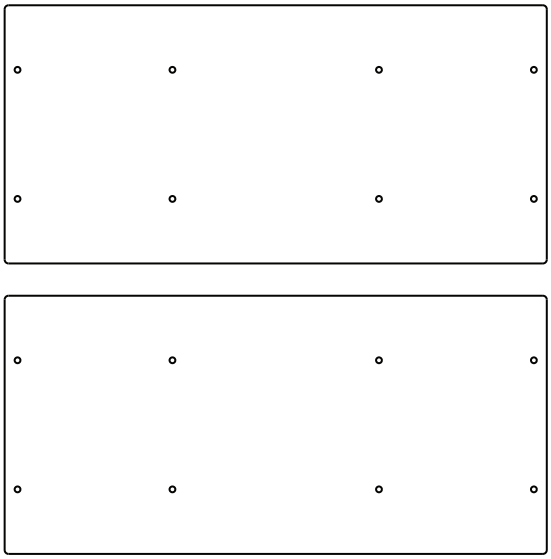


Corner Bracket Assembly

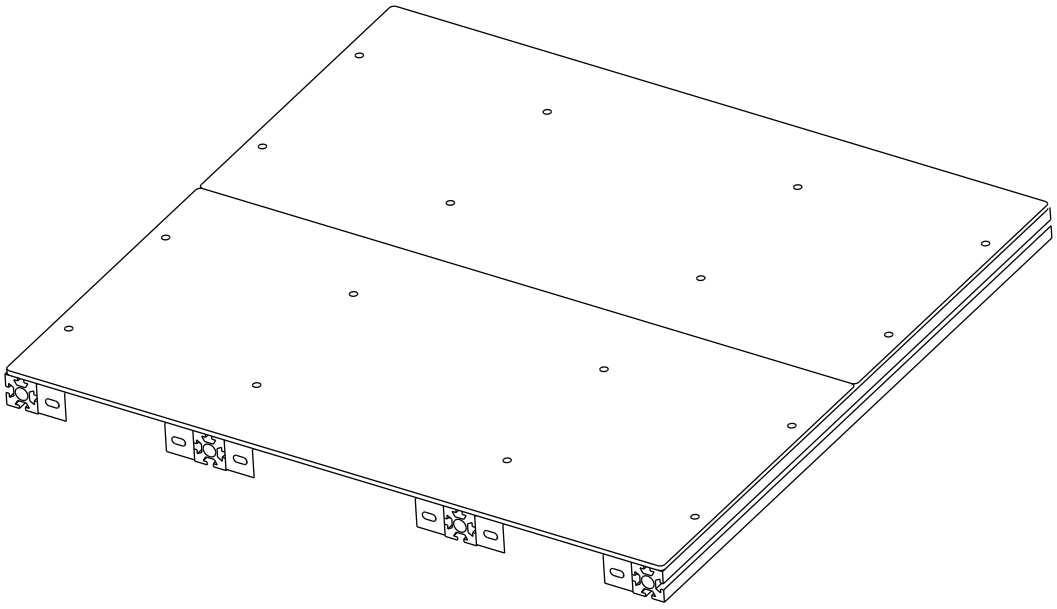


Chasis Frame Assembly

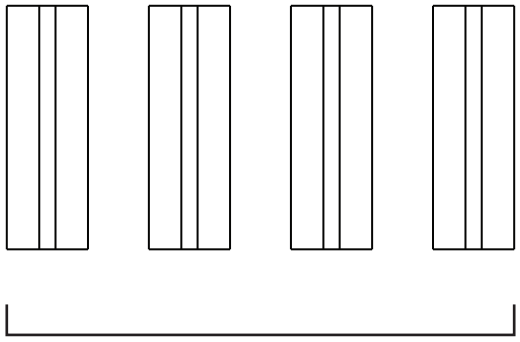
2. Fix the top plates to extrusion structure with help of T nut & M4 screws.

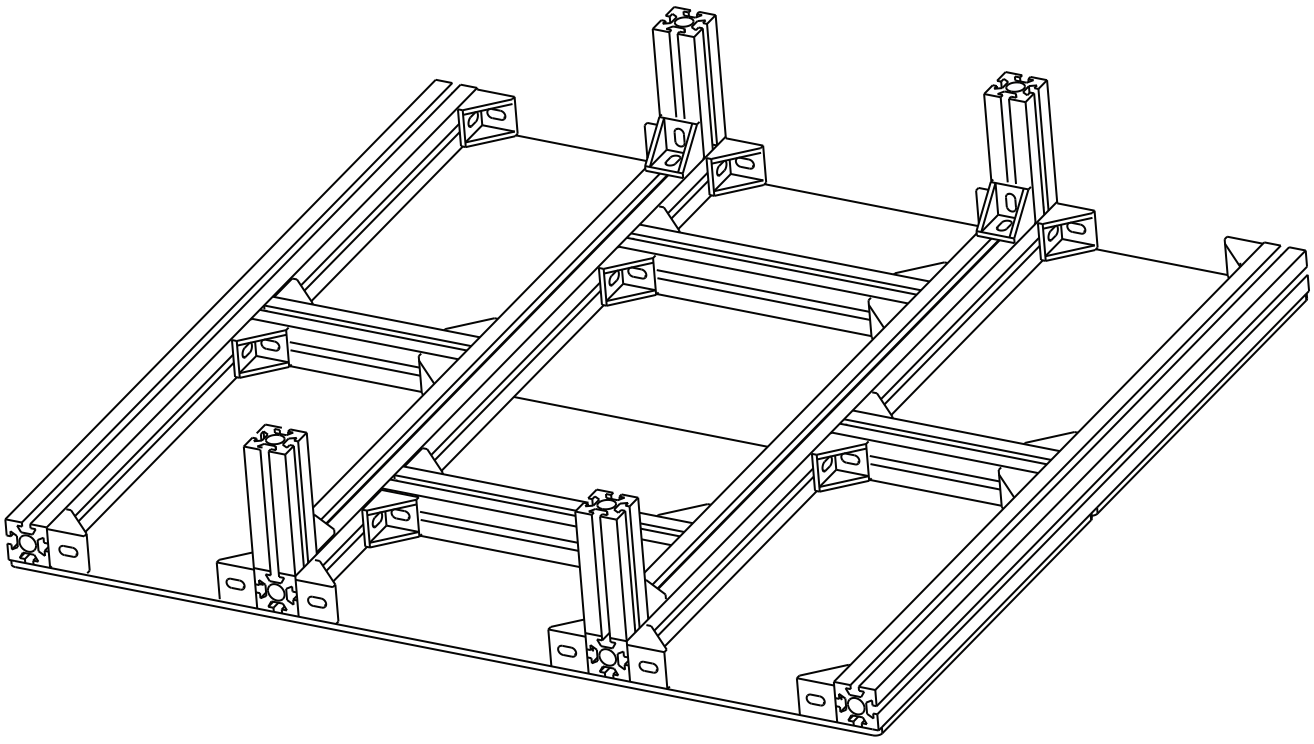


Top Plates

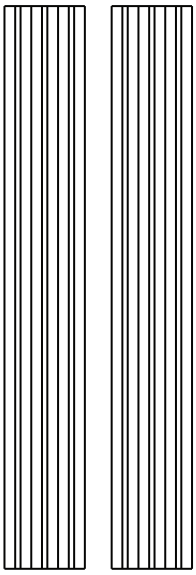


3. Now take 4 pieces of 2020 profile of length 60 mm and fix them as per shown in the image.

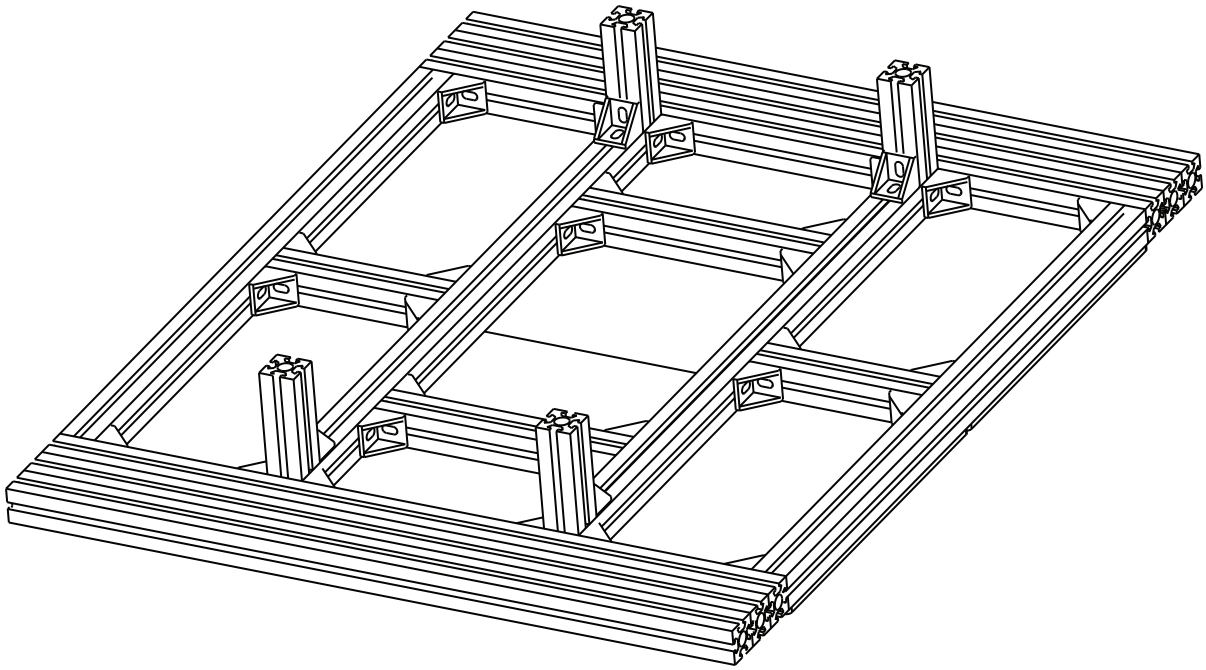




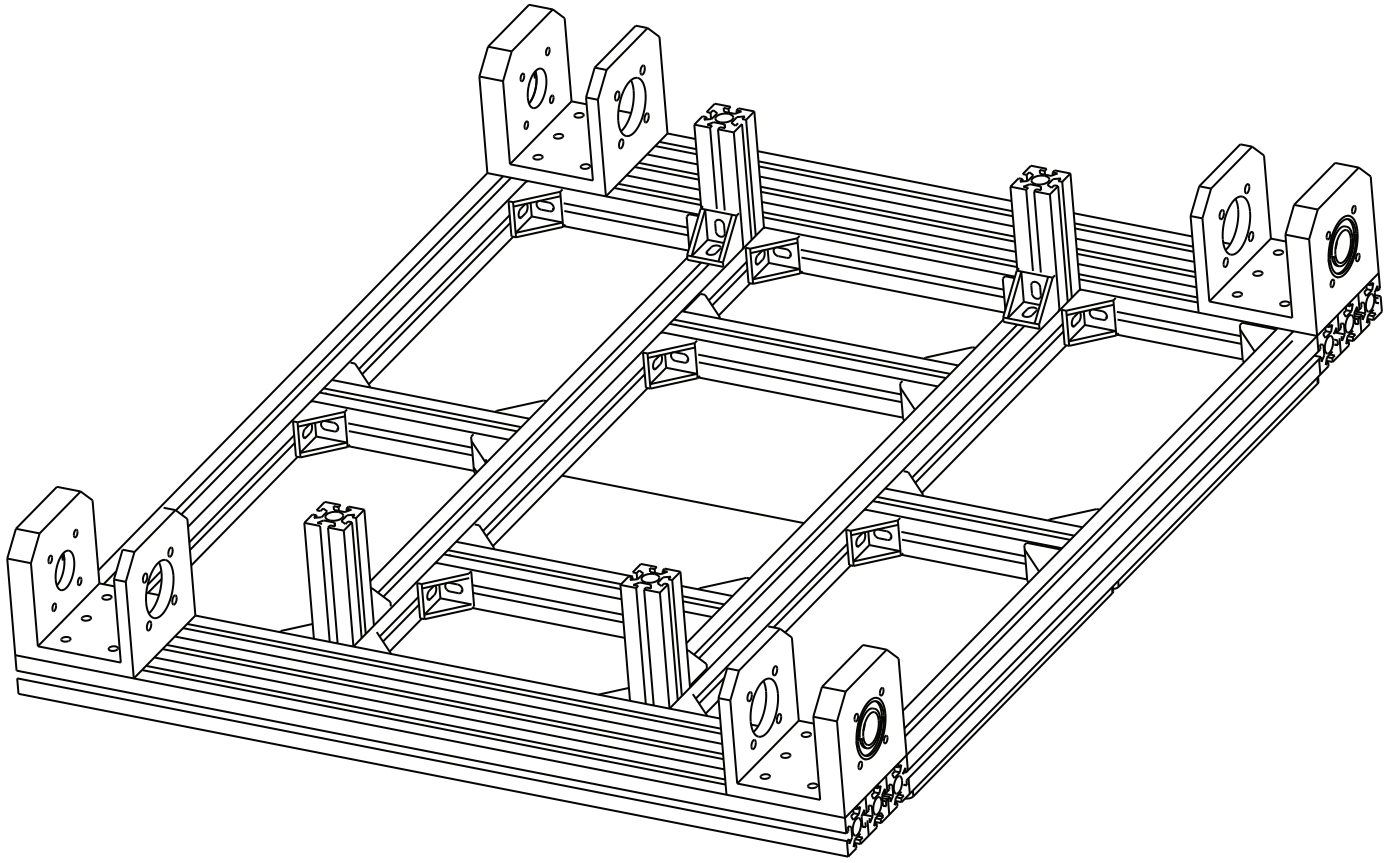
4. Fix 2 piece of 20x60 Aluminum Extrusion (L – 420 mm) from both sides of the base frame with the help of T nut & tight the M4 screws.



20 X 60 - 420mm



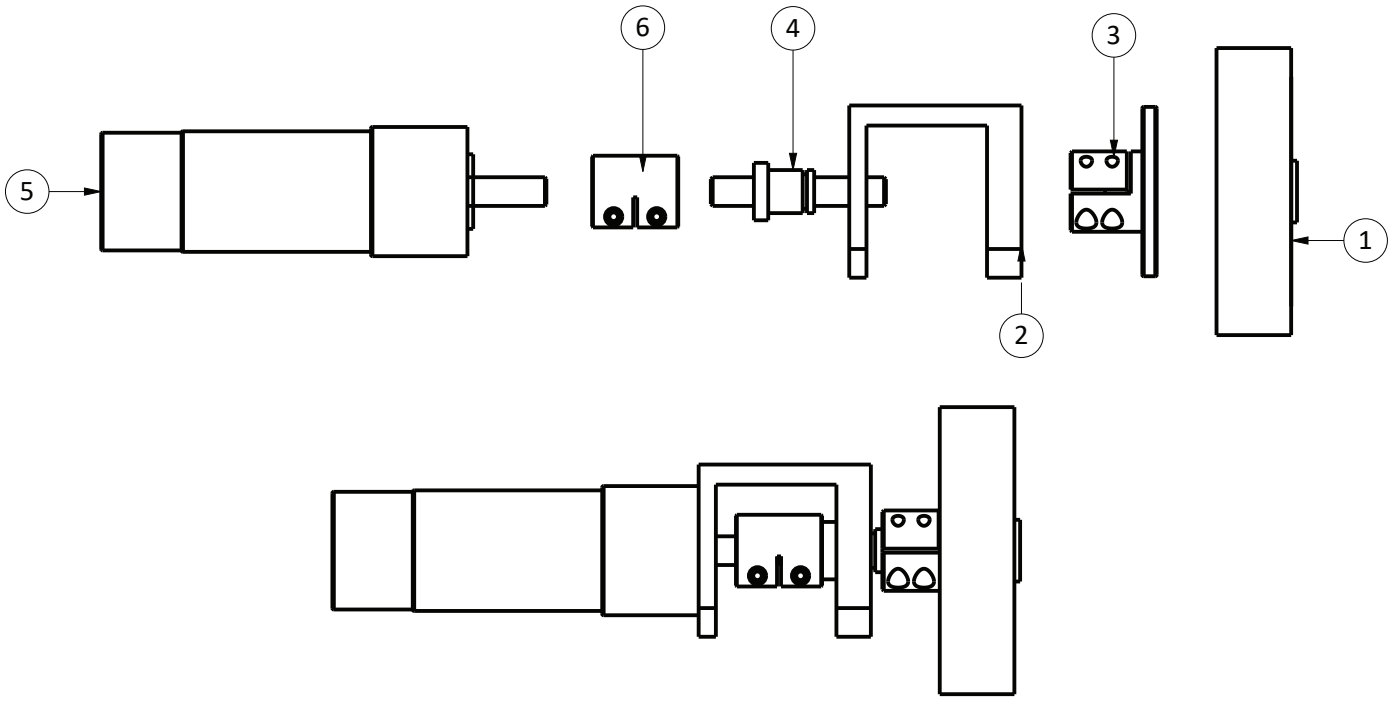
5. Mount EasyMech 6902 ZZ Bearing Housing for PGM45775 Series Planetary Motor on 20x60 extrusion ends as shown in fig.



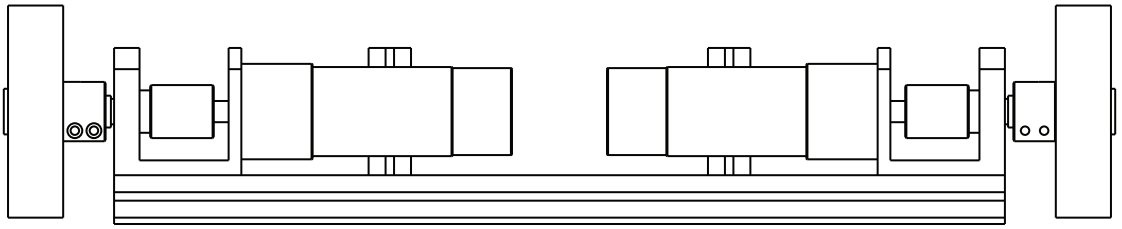
6. Now make drive assembly with the help of the fig. Drive assembly requires PGM45775 series Planetary motor, Flexible Shaft Coupler & Wheel with anti-slip coupling.

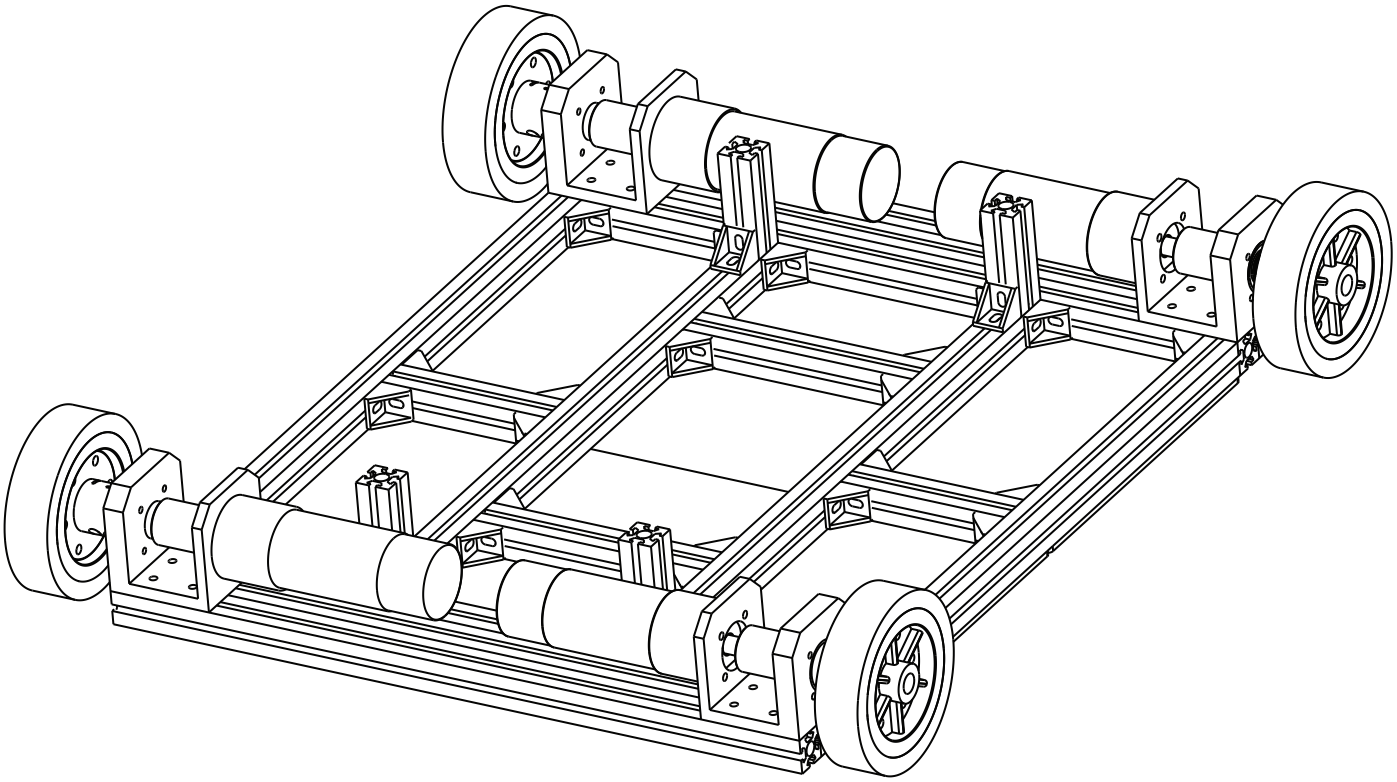
PART NO	PART NAME	QTY
1	100MM - MODIFIED HD WHEEL	1
2	6902ZZ - BRG HOUSING	1
3	ANTISLIP COUPLING 10MM	1
4	MS SHAFT	1
5	PGM45 PLANETARY DC MOTOR	1
6	FLEXIBLE SHAFT COUPLING 10X10	1

Drive Assembly

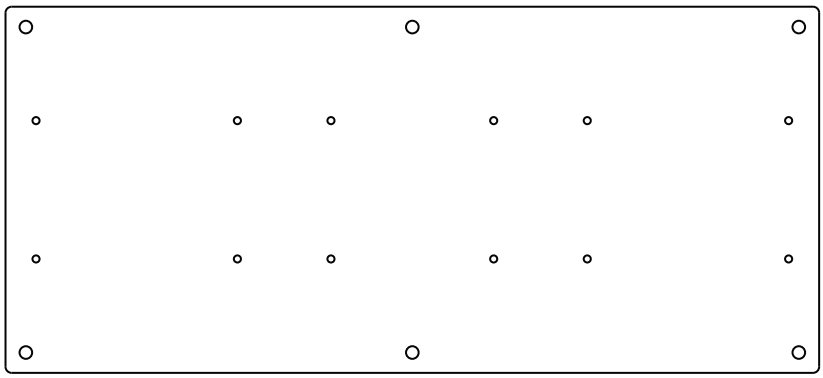


7. You can use any wheel for the robot whose outer diameter should be ≥ 10 cm.

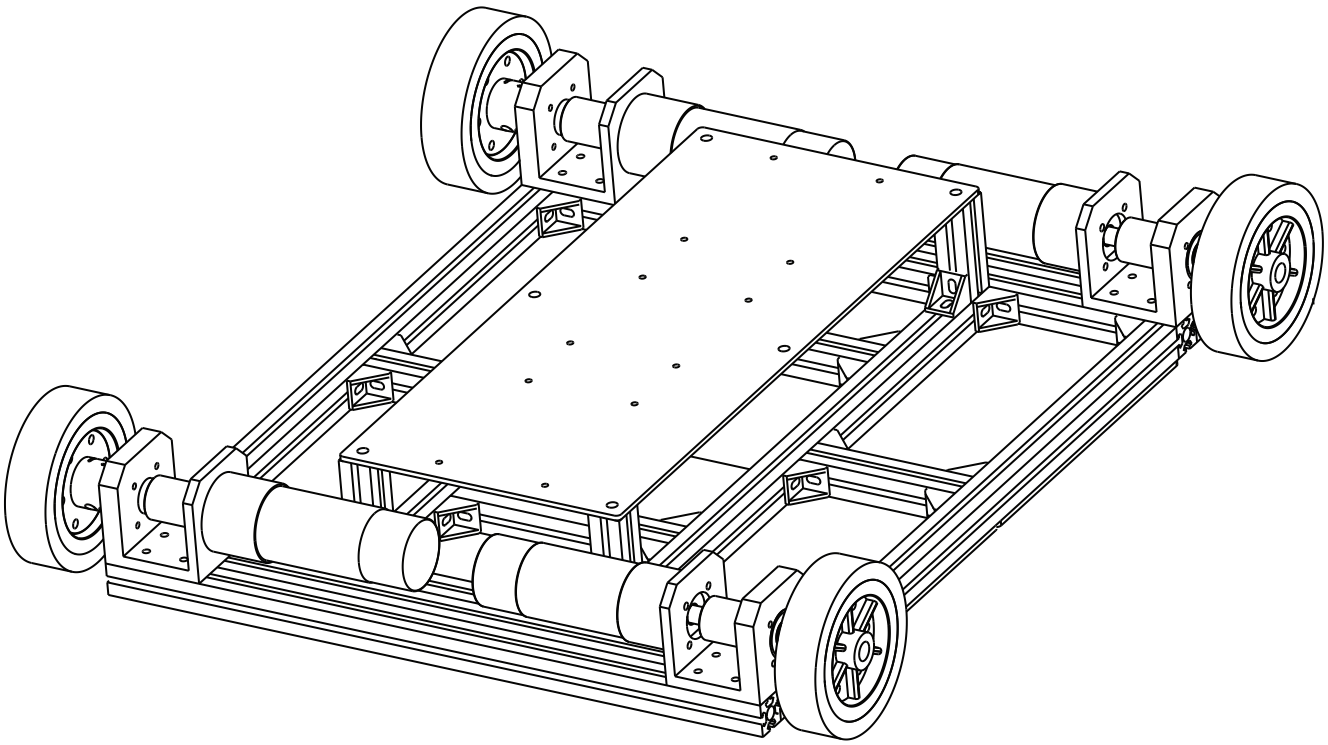




8. Finally mount the bottom plate of the robot with the help of M6 screws.
   This plate will be useful for mounting motor driver, power supply, raspberry pi or any other PCB boards require for robot.



Bottom Plate



9. Robot is ready for move, Enjoy the ride!