

AndyMark 10" Steel Mecanum Wheel (am-0447) Assembly Instructions



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Parts needed to make one (1) 10" Steel Mecanum Wheel:

Component	Qty.	Part #
Left or Right Inner Mecanum Steel Plate	1	N/A
Left or Right Outer Mecanum Steel Plate	1	N/A
1/2" Aluminum Axle	12	N/A
Steel GGB bushings	24	N/A
10" Mecanum Wheel Roller	12	am-0297
M6 x 1.0 x 120mm Hex Head Screw	12	am-1110
M6 x 1.0 Nylock Nut	18	am-1111
1/2" i.d. Plastic Washer	24	am-1221
1/4" Flat Washer	12	am-1069
M6 x 1.0 x 110mm Hex Head Screw	6	am-1115
10" Mecanum Hub	1	N/A

Tools needed:

Cordless drill
10 mm Socket

10" Steel Mecanum Wheel Assembly Instructions:

Step 1: Place a 1/4" flat washer into one of the M6 x 1.0 x 110mm Hex Head Screws and then insert it to one of the holes of the outer 10" mecanum steel plate. Repeat five more times.



Step 2: Insert this assembly into the 10" Mecanum Hub. Hammer in the screws.



Step 3: Turn it over. Place the inner 10" mecanum steel plate above the wheel, aligning the M6 x 1.0 x 120mm Hex Head Screws with the holes.



Step 4: Place six 1/4" flat washers on the M6 x 1.0 x 110mm Hex Head Screws.



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Step 5: Tighten six M6 x 1.0 Nylock Nuts with the cordless drill.



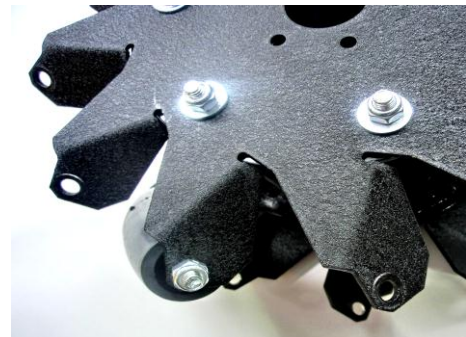
Step 6: Insert a M6 x 1.0 x 120mm Hex Head Screw along with a 1/2" i.d. Plastic Washer into one of the 10" steel mecanum plates.
*Note: Make sure the heads of these screws are on the same side as the other ones.



Step 7: Insert a 1/2" aluminum axle into one of the 10" mecanum wheel rollers, and slide that into the M6 x 1.0 x 120mm Hex Head Screw. Place a 1/2" i.d. Plastic Washer on the remaining space of the 1/2" aluminum axle.



Step 8: With the cordless drill and socket, tighten a M6 x 1.0 Nylock Nut to the M6 x 1.0 x 120mm Hex Head Screw.



Step 9: Repeat steps 6-8 until all 10" mecanum wheel rollers are correctly in place. This is how they should look like once done:



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