

ME205 NMR Manufacturing BOM Estimates

Team ID:	Novel Movement Robot	
	Team	Novel MovementRobot
	Date	4/27/2022
Total:		\$ 801.07

item	Part/Item Number	Description (Add Hyperlink)	Vendor		\$/Each	Extended
1	2662N56	20 Degree Pressure Angle Gear Rack, 0.8 Module	McMaster	20	\$ 4.40	\$ 88.00
2	2662N324	20 Degree Pressure Angle Plastic Gear	McMaster	1	\$ 16.02	\$ 16.02
3	2664N437	Metal Gear - 20 Degree Pressure Angle	McMaster	16	\$ 16.02	\$ 256.32
4	3203	20.4:1 Metal Gearmotor 25Dx50L mm HP 12V	Pololu Robotics & Electronics	2	\$ 28.95	\$ 57.90
5	2676	25D mm Metal Gearmotor Bracket Pair (sets of 2)	Pololu Robotics & Electronics	8	\$ 7.31	\$ 58.48
6	8962K32	Zinc-Galvanized Low-Carbon Steel Bar (3ft)	McMaster	1	\$ 6.10	\$ 6.10
7	8962K32	Zinc-Galvanized Low-Carbon Steel Bar (6ft)	McMaster	2	\$ 10.52	\$ 21.04
8	202300504	1/2 in. x 24 in. PVC Sch. 40 Pipe	The Home Depot	1	\$ 2.48	\$ 2.48
9	100113200	1/2 in. x 10 ft. 600-PSI Schedule 40 PVC Plain End Pipe	The Home Depot	4	\$ 5.24	\$ 20.96
10	310832218	8 oz. ClearWeld Pro	The Home Depot	1	\$ 20.28	\$ 20.28
11	312528776	2 in. x 4 in. x 8 ft. Prime Whitewood Stud	The Home Depot	1	\$ 8.25	\$ 8.25
12	100009348	1 in. x 2 in. x 8 ft. Furring Strip Board	The Home Depot	2	\$ 2.20	\$ 4.40
13	100635279	1 in. Chiseled Foam Paint Brush	The Home Depot	1	\$ 0.87	\$ 0.87
14	202308577	#16-1/2 x 1 in. Beige Steel Panel Board Nails (6 oz. Pack)	The Home Depot	1	\$ 3.98	\$ 3.98
15	Not Applicable	Neoprene Foam Strip Roll by Dualple	Amazon	1	\$ 17.23	\$ 17.23
16	1960	Machine Screw: #4-40, 1/4" Length, Phillips (25-pack)	Pololu Robotics & Electronics	3	\$ 0.99	\$ 2.97
17	89015K123	Multipurpose 6061 Aluminum Sheet	McMaster	1	\$ 36.42	\$ 36.42
18	8888A13	Carbide Square End Mill with Two Milling Ends	McMaster	1	\$ 20.68	\$ 20.68
19	8492K691	Acetal Bar, 1/2" Thick, 1" Wide(4ft)	McMaster	1	\$ 22.68	\$ 22.68
20	8492K692	Acetal Bar, 1/2" Thick, 1" Wide(1ft)	McMaster	1	\$ 5.67	\$ 5.67
21	204274653	#4-40 x 3/4 in. Phillips Flat Head Zinc Plated Machine Screw (8-Pack)	The Home Depot	14	\$ 1.28	\$ 17.92
22	389	Gorilla Super Glue 20-gram Super Glue	Lowe's	1	\$ 7.48	\$ 7.48
23	204834035	100 ft. 14 Black Stranded CU THHN Wire (Black Wire)	The Home Depot	1	\$ 39.96	\$ 39.96
24	204834038	100 ft. 14 Red Stranded CU THHN Wire (Red Wire)	The Home Depot	1	\$ 39.96	\$ 39.96
25	Not Applicable	SparkFun PID 13601 16 Output I/O Expander Breakout - SX1509	Amazon	2	\$ 12.51	\$ 25.02

Notes:

- 1) 16 Metal Gear Motors were bought by the Electrical Engineering Team
- 2) 2 Metal Gear Motors were bought by the Mechanical Engineering Team for experimentaion
- 3) The Team Initially bought a pair of Plastic Gear and Rack and later decided to use a Metal Gear Instead
- 4) This Purchase List only includes Purchased matierals for the robot by the Mechanical Engineering Team