

Vex Product Design Challenge

Bill Of Materials (BOM)

Robot Name: Mini Trash Truck Dumper

Robot Creator: Bryan Emerson

Total \$776.68

Part Number	Product	Quantity	Price per unit	Total	
1	P/N: 276-2168	VEX Tank Tread Kit	1	\$29.99	\$29.99
2	P/N: WHEEL-LOWFRICTION-4PK	2.75"dia (Low Friction) Wheel 4-pk	1	\$9.99	\$9.99
3	P/N: 276-2163	VEX Motor Kit	4	\$19.99	\$79.96
4	P/N: SHAFT-12-4PK	12" Square Bar Drive Shaft 4-pk	1	\$8.96	\$8.96
5	P/N: COLLAR-16PK	Collar 16-pk \$10.49 ea	3	\$10.49	\$31.47
6	P/N: BEARING-FLAT-10PK	Delrin Bearing 10-pk	3	\$4.99	\$14.97
7	P/N: SPACER-4X-PACK-10	Spacers 1/8, 1/4, 3/8, 1/2	1	\$4.95	\$4.95
8	P/N: SPACER-THIN-20PK	Thin Spacer 20-pk	1	\$2.99	\$2.99
9	P/N: SPACER-THICK-20PK	Thick Spacer 20-pk	1	\$2.99	\$2.99
10	P/N: WASHER-TEFLON-PACK-25	Teflon Washer 25-Pack	1	\$4.95	\$4.95
11	P/N: 276-2169	VEX Gear Kit	1	\$12.99	\$12.99
12	P/N: GEAR-60TOOTH-4PK	60 Tooth Gear 4-pk	1	\$7.99	\$7.99
13	P/N: 12T-36T-GEAR-4PK	12 & 36 Tooth Gear 4-pk	1	\$5.99	\$5.99
14	P/N: 230-0036	VEX Power Pack	1	\$49.99	\$49.99
15	P/N: ANGLE-001-4PK	Angle 30 holes / slots	1	\$14.99	\$14.99
16	P/N: ANG-22-25-4PK	Angle 2x2x25 holes	2	\$14.99	\$29.98
17	P/N: CHAN-121-35-4PK	C-Channel 1x2x1x35 holes	1	\$17.99	\$17.99
18	P/N: RAIL-21-25-4PK	Chassis Rail 2x1x25 holes	1	\$14.99	\$14.99
19	P/N: PLATE-25-5-4PK	25x5-Hole Plate	1	\$14.99	\$14.99
20	P/N: BAR-25-8PK	Bar 1x25 holes	1	\$12.99	\$12.99
21	P/N: GUSSET-ANGLE-4PK	Angle Gusset 4-Pack	1	\$7.95	\$7.95
22	P/N: GUSSET-ANGLE-4PK	Angle Gusset 4-Pack	1	\$7.95	\$7.95
23	P/N: SCREW-0250-PACK-100 1/4"	8-32 Screw 100-pk	1	\$7.49	\$7.49
24	P/N: SCREW-832-38-28PK	3/8 in. 8-32 Screw 28-pk	1	\$1.49	\$1.49
25	P/N: SCREW-832-12-28PK	1/2 in. 8-32 Screw 28-pk	2	\$1.49	\$2.98
26	P/N: SCREW-832-34-14PK	3/4 in. 8-32 Screw 14-pk	1	\$0.99	\$0.99
27	P/N: SCREW-1500-PACK-50 1-1/2"	8-32 Screw 50-pk	1	\$7.49	\$7.49
28	P/N: COUPLER-832-0500-25 1/2"	Set Screw 25-pk	1	\$2.95	\$2.95
29	P/N: NUT-LW-832-PACK-100	Keps Nut 8-32 100-Pack	2	\$2.99	\$5.98
30	P/N: LOCK-NUT-832-14PK	Lock Nut 8-32 14-pk	1	\$0.99	\$0.99
31	P/N: CABLE-TIE-4-PACK-100	4" Tie Wraps 100-pk	1	\$4.95	\$4.95
32	P/N: BEAM-PACK	Standoff, Beam Pack	1	\$15.99	\$15.99
33	P/N: 1USHL-MAT-THIN	12" x 15" Thin Anti-Slip Mat	1	\$2.50	\$2.50
34	P/N: 276-2174	VEX Limit Switch Kit	1	\$12.99	\$12.99
35	P/N: 276-2170	VEX Microcontroller	1	\$149.99	\$149.99
36	P/N: CABLE-PWM-36-4PAK	36 in. Extension Cable (4 Pk)	1	\$19.95	\$19.95
37	P/N: CABLE-PWM-6-4PAK	6 in. Extension Cable (4 Pk)	1	\$19.95	\$19.95
38	P/N: 276-2153	Transmitter and Receiver Kit	1	\$129.99	\$129.99
			Total	\$776.68	