Components (by category)

Hardware		Quantity	Notes	
Baseplate				
12mm ply baseplate	1 sheet 1210x596 mm exterior grade or marine ply	1		
M5 x 75mm bolts		4	For turntable	
M5 x 35mm bolts		15	For guides/brackets	
M10 nuts		3	Cover brackets	
M10 wingbolts		3	Upper cover	
M8 x 40mm bolts		12	Lower cover brackets	
12" Lazy susan		1		
Tower				
M5 x 35mm bolts		6	Tower to baseplate	
M5 x 75mm bolts		14	Tower bolts	
M5 x 20mm bolts		4	Y junction bolts	
4g x 12mm screws		2	Large gear	
M3 x 20mm bolts		4	Motor and microswitch bracket	
M2 x 12mm bolts		2	Microswitch	
8mm silicone hose	650mm long	3	Monthly	
1m of 15mm PVC				
Tipping Bucket				
M3 x 20mm bolts		4	Support stand to baseplate	
M5 x 20mm bolts		2	Tipping bucket adjuster screws	
4G x 12mm screws		6	Pinions and magnet arm	
Electronics				
Reed switch		1		
FE magnet (10 x 10 x 3mm)		1		
Stepping motor and board		2		
Arduino nano		1		
Breakout board		1		
DS3231 RTC		1		
SD Card reader		1		
Ribbon cables	100mm or shorter	20		
Solar panel		1		
DC Converters		2	1 from 12v to Arduino, 1 from solar to battery	
Reset switch		1		
M5 x 50mm bolts		3		
8g x 12mm screws		6	Electronics brackets and grommet	
4g x 12mm screws		4	-	
M3 x 20mm bolts 608 bearings			Motor Gears	
ooo bearings		2	deals	
Platter				
Turntable		1		
M5 x 20mm bolts			Turntable attachment	
7g x 20mm screws		19		
8g x 12mm screws		65	outer and inner rim, and vent tube holders	
		30	,	
Monthly Bottles				
2L HDPE bottles		3		
Daily Bottles				
225ml HDPE bottles		60		
(synergy)				
Outer Casing				
M8 x 40mm bolts	Galvanised	4	Handles	
M8 washers	Galvanised	8	Handles	
M5 x 35mm bolts	Stainless	21	Funnel and funnel base. Portholes	
Tools				

Components by quantity

	Quantity	Cost	Example
4g x 12mm screws	12	4	https://www.bunning
7g x 20mm screws	19	2	https://www.bunning
8g x 12mm screws	71	7	https://www.bunning
M10 nuts	3	2	https://www.bunning
M10 wingbolts	3	5.20	https://www.bunning
M2 x 12mm bolts	2		
M3 x 20mm bolts	10	1	https://core-electron
M5 x 20mm bolts	10	3.30	https://www.bunning
M5 x 35mm bolts	42	16.25	https://www.bunning
M5 x 50mm bolts	3	4	https://www.bunning
M5 x 75mm bolts	18	8	https://www.bunning
M8 x 40mm bolts	16	12.65	https://www.bunning
Plywood	1 sheet 1210x596 mm exterior grade or marine ply	34	https://www.bunning
608 bearings	2	7	https://au.rs-online.d
12" Lazy susan	1	18	https://www.carbate
15mm pvc	1	2.20	https://www.bunning
200L plastic drum	1	33	https://www.gumtree
Varnish	1	10	https://www.bunning
		169.6	
Electronics			
Reed switch	1	2	https://www.jaycar.co
FE magnet (10 x 10 x 3mm)	1	2	https://www.jaycar.co
Stepping motor and board	2	20	https://www.jaycar.co
Arduino nano	1	15	https://core-electron
Breakout board	1	12	https://www.ebay.co
DS3231 RTC	1	4	http://www.ebay.com
SD Card reader	1	3	https://www.ebay.co
Ribbon cables	20	3.50	https://core-electron
Solar panel	1	23	https://www.jaycar.co
DC Converters	2	7	https://www.ebay.co
Battery	1	24	https://www.jaycar.co
Reset Switch	1	2	https://www.jaycar.co
Wires		5	https://www.jaycar.co
		122.5	
Laser Cutting			
Tower, platter, V- braces, gears. 6mm acrylic	3	75	FabLab prices for 3 s
		75	
3D Printing			
ABS	2 spools	40	
PETG	1 spool	40	
ASA	1 spool	40	
		120	
Bottles			
Vent tubes	135m	65	https://www.bunning
		65	
Bottles 225ml	60	30	
Bottles 2L	3	15	
Total			
Build Bottles		552.1	
		45	