

BOM												\$	693.53
STATUS	ID NO.	PART NO.	PART NAME	QTY.	UNIT	MATERIAL	SUPPLIER	PART NO.	UNIT/PKG.	PGK. COST	UNIT COST	TOTAL COST	COMMENT
RECEIVED		1	NEMA 23 2.3Nm Stepper Motor	3	each	Motor	StepperOnline	iCL57-23	1	\$ 79.93	\$ 79.93	\$ 239.79	Integrated Closed Loop 20-50VDC w/ 14-bit Encoder
RECEIVED		2	Planetary Gearbox 20.1 GR 30Nm max torque	1	each	Motor	StepperOnline	EG23-G20-D8	1	\$ 49.02	\$ 49.02	\$ 49.02	Backlash 20arc-min for 8mm Shaft Nema 23 Stepper Motor
RECEIVED		3	Nema 23 Bracket for Stepper Motor and Geared Stepper Motor Alloy Steel Bracket	1	each	Alloy Steel	StepperOnline	N/A	1	\$ 2.25	\$ 2.25	\$ 2.25	
RECEIVED		4	Metal Gear - 20 Degree Pressure Angle	1	each	Black-Oxide 1045 Carbon Steel	McMaster Carr	2664N17	1	\$ 17.20	\$ 17.20	\$ 17.20	
RECEIVED		5	Metal Gear Rack - 20 Degree Pressure Angle	1	each	1045 Carbon Steel	McMaster Carr	2485N203	1	\$ 115.00	\$ 115.00	\$ 115.00	
		6	Auger Shaft Coupling Do not buy yet	1	each	7075 Aluminum	McMaster Carr	2464K45	1	\$ 134.72	\$ 134.72		
		7	Shaft Adapter Do not buy yet	1	each	Black-Oxide steel	McMaster Carr	3256K18	1	\$ 54.98	\$ 54.98		
RECEIVED		8	GREEN Auger 3x12"	1	each	Alloy Steel	Amazon	BA0312GN-US	1	\$ 13.99	\$ 13.99	\$ 13.99	w 3/8" hex drill bit end
RECEIVED		9	Samsung SATA SSD	1	each	Electronics	Newegg	N/A	1	\$ 89.99	\$ 89.99	\$ 89.99	
RECEIVED		10	Ball Screw 600 mm 1610	1	each	100Cr6 steel	Amazon	N/A	1	\$ 37.99	\$ 37.99	\$ 37.99	
RECEIVED		11	Ball Screw Kit /w 600 mm 1605	1	set	Multiple	Amazon	N/A	1	\$ 43.29	\$ 43.29	\$ 43.29	PACKAGE CONTAINS: 1 x Ball Screw, 1 x Nut, 1 x BK12,1 x BF12, 1 x Coupler
RECEIVED		12	Nema 23 Metal Stepper Motor Steel Mounting Bracket for Ball Screw SFU1605	1	each	Carbon Steel	Amazon	HM12-57	1	\$ 29.99	\$ 29.99	\$ 29.99	
RECEIVED		13	Nema 24 Metal Bracket	1	each	Alloy Steel	Amazon	N/A	1	\$ 12.99	\$ 12.99	\$ 12.99	For Gear Box. May Return if fit is bad
RECEIVED		14	4' x 8' x 3/4" Plywood Sheet	1	each	Plywood	Home Depot	N/A	1	\$ 34.58	\$ 34.58	\$ 34.58	Prototyped plates before metal
RECEIVED		15	5 Gallon Bucket	1	each	Plastic	Home Depot	N/A	1	\$ 4.48	\$ 4.48	\$ 4.48	For Demonstration
RECEIVED		16	75 cu ft Top Soil	1	each	Soil	Home Depot	N/A	1	\$ 2.97	\$ 2.97	\$ 2.97	For Demonstration