

	Part Name	Project Part Number	
Feeder Components	Feeder Lid	1	
	Miuzei 6V Digital Servo	2	
	Plastic Miter Gear Servo	5	
	Plastic Miter Gear Axle	6	
	Electronics Door	8	
	Threaded Rod	9	
	Coupling Nut	10	
	ShroudV2	11	
	Ball Bearing Cap	12	
	Body Rear Motor	13	
	Body Front Feeder	14	
	Body Mid Hinge	15	
	Ball Bearing	16	
	Load Cell Mount Base	17	
	Load Cell Mount Top	18	
	PCB Standoffs	19	
	Electronic Components	Arduino Uno Rev3	20
		Adafruit Pro Trinket	21
		Adafruit INA260	22
HX711 and Load Cells		23	
Power Supply		24	
100 μ F Capacitor		24	
1 μ H Inductor		25	
Full-Size Breadboard		26	
Half-Size Breadboard		27	
7x5cm Solder Board		28	
4Pin RGB Headers	29		
Extra Parts and Fasteners	Scale Base	30	
	Motor Housing Screws	31	
	Servo Motor Screws	32	
	Shroud Set Screws	33	
	Super Glue	34	
	Double Sided Tape	35	
	3D Filament	36	

Description	Material
Hinged Lid	PLA/ABS
6V 20kg RC Digital Servo	
Modified Miter Gear	PLA/ABS
Modified Miter Gear	PLA/ABS
Removable Cover	PLA/ABS
M5 x 0.8 Grade B7 Medium Strength Steel Threaded Rod	Steel
M5 x 0.8 Low-Strength Steel Coupling Nut	Steel
Protective Shroud for Gears	PLA/ABS
End Cap for Ball Bearing	PLA/ABS
Housing for Servo and Electronics Bay	PLA/ABS
Food Tray and Lid Housing	PLA/ABS
Servo Pass-Through and Hinge Assembly Base	PLA/ABS
Stainless Steel Ball Bearing	Steel/Nylon
Load Cell Mount Base	PLA/ABS
Load Cell Mount Top	PLA/ABS
PCB Standoffs	PLA/ABS
ATmega328P and ATmega 16U2 Microcontroller	PCB
Atmega328P Microcontroller	PCB
High or Low Side Voltage, Current, Power Sensor	PCB
50kg Load Cell HX711 Combo	PCB/Steel
Universal Regulated AC-DC Switching Adaptor 3-12V	
100µF 10V Aluminum Electrolytic Capacitor	
1µH Inductor	
830 Tie-Point Full-Size Breadboard	ABS
400 Tie-Point Half-Size Breadboard	ABS
7x5cm Solder Board	PCB
4pin SM JST 15cm Cable Female/Male Connectors	Cable
76x38cm MDF Particle Board	MDF
M3 x 0.5 40mm Flat Head Hex Screw	Steel
M4 x 0.7 20mm Round Head Drive Screw	Steel
M3 x 0.5 4mm Set/Grub Screw	Steel
Cyanoacrylate Adhesive	Cyanoacrylate
Double Sided Tape	Adhesive
ABS/PLA filament	

Quantity	Manufacturer/Supplier	Manufacturer Part Number	McMaster Carr Part Number
1			
1	Miuzei	DS3218	
1	McMaster Carr		2810N2* Modified
1	McMaster Carr		2810N2* Modified
1			
1	McMaster Carr		93325A413
1	McMaster Carr		93355A320
1			
2			
1			
1			
1			
2	Uxcell	B082PS3QDJ	7804K106
4			
4			
1			
1	Arduino	A000066	1387N11
1	Adafruit	2000	4001N11
1	Adafruit	4226	
1	Degraw	B075Y5R7T7	
1	PHC Enterprise, Inc	PHC-2200W	
2			5077N18
2			
1			1388N15
1			1388N13
1			
1	BTF-LIGHTING Technology Co.	4PIN-SM	
1			
4			92125A150
4			92095A196
2			92015A102
1			
1			
2			