

Bill of materials table

Part No.	Part Name	Quantity	Category	Cost/£	Source
1	Raspberry pi zero wh	1	Microcontroller	12.60	Onecall - Farnell
2	Servo HAT	1	Servo motor module	12.99	Amazon
3	Servo Motor	2	Servo motor	8.28	Onecall - Farnell
4	Servo Extension Cable Cord	1	Servo motor extension wire	9.99	Amazon
5	Servo Plug Male Female Connector Crimp Pin Kit	1	Servo motor extension wire	8.99	Amazon
6	USB To TTL RS232 Module Converter	1	Serial adapter	6.99	Amazon
7	None slip tape	1	Grip tape for claw	6.28	Amazon
8	3D filament (750 g / 96 m)	1	PLA for print of the claw design	33.67 / (13.51)*	Onecall - Farnell
9	Hex Socket Button Screw	4	M3 x 8 mm	0.20	Onecall - Farnell
10	Hex Socket Button Screw	4	M3 x 6 mm	0.44	RS Pro
11	Square nut	8	M3	0.72	Onecall - Farnell
12	Self-tapping screws	2	4 x 3/8" (2.9 x 9.5mm)	0.12	RS Pro
13	Self-tapping screws	2	4 x 1/2" (2.9 x 13mm)	0.17	RS Pro
14	Pan head slotted screw	1	M3 x 20 mm	0.03	Onecall - Farnell
15	Hex nut	1	M3	0.03	Onecall - Farnell
Total Cost = £101.50 (£81.34)*					

*Cost of filament used

Links for Consumptions

Raspberry pi: [RASPBerry-PI ZERO WH V2](#)

Servo HAT: [Waveshare Servo Driver HAT Expansion Board, Compatible with Raspberry Pi, 12-Bit, I2C Interface, Straight Pinheader, Up to 16-Channel Servo/PWM Outputs](#)

Servo Motor: [Servo Motor, Continuous Rotation](#)

Servo Extension Cable: [Servo Extension Cable Cord Connector Lead Wire 22AWG Servo Receiver Wire](#)

Servo Plug Male Female Connector Crimp Pin Kit: [30 Sets Servo Plug Male Female Connector Crimp Pin Kit Compatible Futaba for Hitec Spektrum RC](#)

USB To TTL RS232 Module Converter: [USB To TTL Serial Port Download Cable](#)

None slip tape: [1 Roll Clear Anti Slip Tape Non Slip Safety Grip Tape Rubber Self Adhesive Tape](#)

3D filament: [3D Printer Filament, 2.85mm Dia, Black, PLA, 145 to 160°C, 750 g](#)

Hex Socket Button Screw (M3 x 8 mm): [Socket Screw, Button Head Hex, Stainless Steel A2, 8 mm, M3](#)

Hex Socket Button Screw (M3 x 6 mm): [RS PRO Black, Self-Colour Steel Hex Socket Button Screw, ISO 7380, M3 x 6mm](#)

Square nut (M3): [Press Nut, Square, Bright Zinc Plated, M3](#)

Self-tapping screws - 4 x 3/8": [RS PRO Plain Stainless Steel Pan Head Self Tapping Screw, N°4 x 3/8in Long 9.5mm Long](#)

Self-tapping screws - 4 x 1/2": [RS PRO Plain Stainless Steel Pan Head Self Tapping Screw, N°4 x 1/2in Long 13mm Long](#)

Pan head slotted screw (M3 x 20 mm): [M3 x 20mm Slotted Countersunk Head ZP Machine Screws](#)

Hex nut (M3): [Hex Nut, Stainless Steel A2, M3](#)