

Project:

BallBot 4x4 Strider

Issued: 19/12/2025

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
100XL 037 Timing Belt 50 Teeth Rubber Geared Belt, 0.37" Width, 0.20" Pitch	8	4.145	£33.16	Amazon	Can be re-used on other projects	Link
2mm x 10mm Steel Pozi Screws - silver	60	£0.03	£1.55	ebay	Can be re-used on other projects	Link
48mm Omni Wheel for LEGO NXT and Servo Motor	4	£6.60	£26.40	Active Robots	Can be re-used on other projects	Link
Batteries 18650 Lithium 30Q 3.7v 3000mAh	2	£6.71	£13.42	AliExpress	Can be re-used on other projects	Link
Battery 18650 spring contacts, sourcing map	2	£0.31	£0.62	Amazon	Sunk cost - glued in	Link
Button Switch 6x6x5mm 4 pin tactile	2	£0.03	£0.06	Amazon	Sunk cost - glued in	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost - glued in	Link
Display 1.28" TFT Round Display RGB 240x240 GC9A01 Driver SPI	1	£5.66	£5.66	AliExpress	Can be re-used on other projects	Link
Dotstar High Density 8x 8 Matrix 64 Bit Rgb Led Pixel Screen	4	£3.28	£13.12	AliExpress	Sunk cost	Link
DRV8833 Motor Drive Module H-bridge	4	£1.21	£4.85	Amazon	Can be re-used on other projects	Link
ESP32 DevKitC NodeMCU ESP-WROOM-32S	1	£4.48	£4.48	AliExpress	Can be re-used on other projects	Link
Flanged ball bearing, F623ZZ, 3x10x4mm chrome steel	8	£0.91	£7.27	AliExpress	Sunk cost	Link
M3 x 30mm Nylon C-Sunk screws	24	£0.07	£1.64	RS Components	Can be re-used on other projects	Link
M4 x 25mm Nylon countersunk screws	20	£0.10	£1.91	RS Components	Can be re-used on other projects	
Mini 3A DC-DC Converter step down	1	£0.80	£0.80	AliExpress	Can be re-used on other projects	Link
MPU-6050 3-axis accelerometer GY-521	1	£2.00	£2.00	Amazon	Can be re-used on other projects	Link
Pin Header Strips Female 1 x 40	2	£0.90	£1.80	ebay	Sunk cost - glued in	Link
Pin Header Strips Male 1 x 40	2	£0.80	£1.60	ebay	Sunk cost - glued in	Link
Resistors 1/4 W	4	£0.03	£0.11	RS Components	Sunk cost - glued in	
Toggle Switch SPDT 5A@250 AC	1	£0.79	£0.79	Amazon	Sunk cost - glued in	Link
TT Gear Motor 1 : 90 Mini DC 3-6 V with Metal Gears, for Robot Smart Car	4	£5.00	£19.98	Amazon	Can be re-used on other projects	Link
WS2812B RGB LED chips, white 5050SMD	16	£0.15	£2.40	Amazon	Sunk cost - glued in	Link
1.75mm PLA Filament 1kg reel - Voxelab +/- 0.02mm	0.3	£14.00	£4.20	Amazon	Sunk cost	Link
2-part epoxy glue 30ml tubes	0.5	£3.90	£1.95	ScrewFix	Sunk cost	Link
Wire wrapping wire, 30AWG 8 colours, 250m spools	0.05	£8.00	£0.40	Amazon	Sunk cost - cost per spool	Link
Total:			£117.38			
Re-use:			£115.85		Can be re-used on other projects	
Sunk:			£34.69		Sunk cost	

Notes:

Prices are indicative, postage not included. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc

Web links are used as a product search guide, may expire, not be available long term

Rechargeable batteries will require a charger - not included

Consumeables like solder, flux, hook-up wire, etc are not included here, but are needed.
3-D printer is an estimate, but 1kg reel will do the job.