

GANTRY BOT - BOM

GANTRY BOT
LW LAPSE

Version 0.4
DATUM 13.02.26

Disclaimer: All links and prices are provided as a convenience, please let me know if any are broken.

Aliexpress, and Sainsmart links are affiliate, ie I may earn a small commission at no extra cost to you, I appreciate your support :)

ITEM DETAILS					REQUIRED		Cost/unit price		
SUB ASSEMBLY	TYPE	LINK	Part No	Details	A or B	No	Cost	QTY	Unit Price
PTH - nearing completion							27,67 €	210,11 €	198
PTH	Files	https://bit.ly/4pTR4fh		Google folder with all files					
PTH	Files	https://bit.ly/4bnOsl0		Link to 3D print files - Printables					
PTH	Electrical	https://bit.ly/3MUIlFE	17HS10-0704S	Nema 17 Bipolar 1.8deg 13Ncm(18.41oz.in) 0.7A 42x42x25mm 4 Wires. Note max 25mm body length for Pan axis unless using alternate mount. Tilt axis has no restriction			22,88 €	2	11,44
PTH	Electrical	https://s.click.aliexpress.com/e/_c2RORsvB	Dia.12.5mm 18CH 2A	18 Channel Micro Rotate Slip Ring 2A Diameter 12.5mm		13,19 €		1	13,19
PTH	Electrical	https://s.click.aliexpress.com/e/_c2RORsvB	Dia.12.5mm 12CH 2A	12 Channel Micro Rotate Slip Ring 2A Diameter 12.5mm		6,59 €		1	6,59
PTH	Mechanical	https://s.click.aliexpress.com/e/_c300hTr1	2GT-20T	GT2 Pulley, 5mm bore for 6mm belt width			4,70 €	2	2,35
PTH	Mechanical	https://s.click.aliexpress.com/e/_c3AHjPIH	2060V-4.2	2060V Slot extrusion, 4,2mm hole, 150mm (required =2x40mm), Option A=3D print	B	7,89 €		1	7,89
PTH	Mechanical	https://s.click.aliexpress.com/e/_c3AHjPIH	2040V-4.2	2040V Slot extrusion, 4,2mm hole, 100mm (required =2x40mm), Option B=3D print	A		5,99 €	1	5,99
PTH	Mechanical	https://s.click.aliexpress.com/e/_c3AHjPIH	2020V-4.2	2020V Slot extrusion, 4,2mm hole 100mm (required =2x40mm), Option B=3D print	A		4,69 €	1	4,69
PTH	Mechanical	https://s.click.aliexpress.com/e/_c3l5NXZP	N/A	6061 Aluminum Alloy Square Flat Plate 200x300x5mm			47,18 €	2	23,59
PTH	Mechanical	https://s.click.aliexpress.com/e/_c4kjt0L	52mm	Bicycle headset Steel Bearing - 52mm			23,34 €	6	3,89
PTH	Mechanical	https://s.click.aliexpress.com/e/_c20bJLsh	GT2, 6x240mm	2GT Belt Width 6mm Length 240mm GT2 Timing Belt Closed Loop			5,10 €	2	2,55
PTH	Mechanical	https://s.click.aliexpress.com/e/_c3LK36sd	QR-70N	70MM Arca swiss clamp plate			9,07 €	1	9,07
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3u2wwyV	LS071	1/4" tripod screws, 12mm			4,30 €	2	2,15
PTH	Fasteners	https://s.click.aliexpress.com/e/_c32qV9m5		1/4" to 3/8" threaded adapter, if not included in Arca plate			3,00 €	2	1,5
PTH	Fasteners	https://s.click.aliexpress.com/e/_c4CCKs4l	M8x100mm	M8 bolt or purchase threaded rod from local hardware store and cut to length			3,95 €	2	1,316666667
PTH	Fasteners	N/A	M8	4xnuts and washers from local hardware store			2,00 €	4	0,5
PTH	Fasteners	https://s.click.aliexpress.com/e/_c4Vyv1ch	M5x25mm	Button head M5 bolts 50 pack - note button head required on at least 6 bolts for clearance			5,99 €	30	0,1198
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3lJhDuZ	M5x16	M5x16mm - 30 pack			2,49 €	8	0,0498
PTH	Fasteners	N/A	M4x45mm	M4x45mm screw - from local hardware store			1,00 €	2	0,5
PTH	Fasteners	https://s.click.aliexpress.com/e/_c4nFzzSl	M4x12mm	M4x12mm bolts, 100 pack			4,89 €	36	0,0489
PTH	Fasteners	https://bit.ly/4b6DIHY	M4x16mm	8x wafer head, required for clearance			5,21 €	8	0,2084
PTH	Fasteners	https://bit.ly/4b6DIHY	M3x6mm	Wafer or button head required for belt clearance			4,57 €	8	0,1828
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3e1V15b	5mm x M4x45mm	8x Shoulder bolt			8,00 €		
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3e1V15b	5mm x M4x30mm	4x Shoulder bolt			6,00 €		0,06
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3ssaRuZ	M5x7mm	M5x6mm brass threaded insert, 1x30pack			2,04 €	25	0,068
PTH	Fasteners	https://s.click.aliexpress.com/e/_c3ssaRuZ	M4x6mm	M4x6mm brass threaded insert, 2x30packs			3,94 €	58	0,0656666667
PTH	Consumables	https://www.recyclingfabrik.com/collections/rpeto-recycling-fabrik	PETG	3D printer filament, PETG or similar, 1kg			24,00 €	.5	24
PTH	Consumables	https://s.click.aliexpress.com/e/_c4slm1uV	DSP1F-D3.1-L15	1/8" Single Flute end mill			5,78 €	2	2,89
PTH	Tools	https://tidd.ly/49x4lVg	101-60-3020PU-AJ	3020-PRO Ultra Desktop CNC Router, 710W Spindle for Metal Carving and Cutting			600,00 €		
PTH	Tools	https://bit.ly/49usT1g		Bambu Lab A1 mini 3D Printer			219,00 €		