

BAG F			
BAG F2			
2	Steeper Motor 34mm with 135mm screw	v	1
3	Printed Z Motor mount	v	1
6	M3 nuts	v	2
5	Round head M3 x 30mm	v	2
4	Flat head M3 x 8mm	v	4
BAG F1			
7	Z-axis Track slider unit (with embedded 3x M3 nuts)	v	2
8	Round head M3 x 8mm	v	4
	Round head M3 x 12mm	v	2
	Round head M3 x 12mm	v	2
	M3 nuts	v	2
1	Carbon fiber Z frame	o	1
	Carbon fiber Z frame bar	o	1
BAG F4			
11	L shaped connector (one needs to be drilled to 6mm)	v	5
12	Carbon fiber foot	o	2
12	Carbon fiber Small foot with double face tape	o	4
14	Round head M5 x 10mm	v	4
13	Round head M5 x 12mm	v	2
15	M5 nuts	v	6
20	Precision height Adjuster	v	3
9	Magnet (12x3.79mm)	v	3
4	Flat head M3 x 8mm	v	2
	washer 6mm inside		1
BAG F7			
21	Extruder Gear	v	1
23	Bearing for Filament	v	1
27	Printed Extruder Lever IMPROVE SPACE FOR BEARING	o	1
28	Printed Extruder Bracket	v	1
29	Extruder Stepper Motor	v	1
24	M4 Washers	v	2
26	Round head M4 x 12mm	v	1
25	Flat head M3x 16mm (check length)	v	1
	M4 nut (self locking)	v	1
	Round head M4 x 50mm	v	1
5	Round head M3 x 30mm	v	3
	Teflon tube 50mm		1
	Carbon fiber extruder motor spacer	o	1
	Teflon quick release adapter		1
Notes:			
Easy for the sliders to come out at the ends.			

BAG Y1			
31	Carbon fiber Y-axis support	v	1
35	Printed Y motor Bracket	v	1
32	Stepper Motor (42HD0401-24 34mm)	v	1
33	Timing Gear 15 tooth MXL	v	1
94	Bearings	v	4
5	Round head M3 x 25mm	v	2
38	Round head M3 x 40mm	v	2
42	M3 washers	v	4
6	M3 nuts	v	7
9	Magnet (12x3.79mm)	v	3
10	Flat head M3 x12mm	v	4
10	Flat head M3 x10mm	v	3
BAG Y3			
70	End-stop	v	1
45	M2 x 10mm	v	2
BAG Y2			
47	Round head M3 x 6mm		8
	Round head M3 x 6mm		6
53	Y-axis Track with slider unit 190mm		2
BAG Y4			
34	MXL Belt (350mm)		1
	Round head M3 x 20mm		3
	Round head M3 x 30mm		1
	M3 Nut		4
60	Glass-bed 160x160mm		1
	Acrylic bed		1
	Printed Belt attachment		1
	Carbon Fiber Belt attachment		2
BAG X1			
92	X-axis Track slider unit (with embedded 3 nuts,172mm)	v	1
58	Round head M3 x 8mm	v	9
100b	Printed attachment (X Bridge to Z threaded flange) NEEDS SMALL GA	v	1
	Round head M3 x 16mm (attaches the 100b to z special nut)		3
6	M3 nut		3
82	Carbon fiber X Bridge	v	1
58	Round head M3 x 12mm (attaches the 100b to the 82)	v	3
BAG X2			
6	M3 nut	v	1
58b	Round head M3 x 8mm (small)	v	3
5	Round head M3 x 25 - Z --- 25N	v	2
85	Printed X Motor attachment	o	1
86	Printed X-axis Bridge spacer for end-stop needs to change. To small	v	1
89	Printed X-axis Bridge spacer	v	1
32	Stepper Motor	v	1
33	Timing Gear 15 tooth MXL	v	1
70	End-stop	v	1

BAG X3			
6	M3 nut	v	1
38	Round head M3 x 20mm	v	1
42	M3 washer (Dia 7mm) small washer	v	1
94	Bearings	v	2
BAG E1			
6	M3 Nut	v	2
45	Round head M2 x 10mm	v	2
67	Round head M3 x 8mm	v	2
	Round head M3 x 6mm		1
25	Flat head M3 x 8mm	v	4
61	Printed Extruder's adapter (Rail to tracks)	o	1
63	Binder clip spring	v	1
66	Short Track with Slider unit (auto calibration)	v	1
66b	MXL Belt (470mm)	v	1
	Zip ties		4
70	End-stop	v	1
BAG E2			
38	Round head M3 x 20mm	v	2
69	Carbon fiber Hot-end bracket	v	1
73b	Assembled hot end unit (with resistor and thermistor)	v	1
BAG E3			
78	Round head M3 x 16mm	v	4
78b	Round head M3 x 20mm	v	2
79	Big Fan 30mm (Hot-end)	v	1
80	Printed Fan duct mount (Hot-end)	v	1
81	Small Fan 26mm (Hot-end)	v	2
82	Small zip tie	v	2
BAG P1			
6	M3 nut		4
52	M3 x 12 --- 12N		4
50	Printer board		1
51	Plastic 5mm washer		4
Bag C			
	Z endstop (750mm) + molex 3P + 2 molex metal conector + 2 silver tubes + 2 smal heat shrink tube		1
	Fan 1 (750mm) + molex P2 + 2 molex metal conector + 2 silver tubes + 2 smal heat shrink tube		1
	Fan 2 (750mm) + 2 silver tubes + 2 smal heat shrink tube		1
	Thermistor (840mm) + molex 2P + 2 molex metal conector + 2 silver tubes + 2 smal heat shrink tube		1
	Heater (840mm) + molex 4P + 4 molex metal conector + 2 mediun heat shrink tube		1
	X endstop (520mm) + molex 3P + 2 molex metal conector + 2 silver tubes + 2 smal heat shrink tube		1
	Y endstop (650mm) + molex 3P + 2 molex metal conector + 2 silver tubes + 2 smal heat shrink tube		1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z Frame	Bag F	1
2	Steeper Motor 34mm (42HD0401-135L)	Bag F1	1
3	Z Motor mount	Bag F1	1
7	Z TRACK (MGN9 142.08mm)	Bag F2	2
9	Magnet (12x3.79mm)	Bag F3 (1X) Bag F6 (2X) Bag Y3 (2x) Bag B1 (5x) Bag B2 (4x)	14
11	L shaped connector	Bag F4	4
12	Small foot	Bag F4	2
17	Hinge 20x20l	Bag Y4 (1x)	1
20	Knurl Adjuster	Bag F6	2
21	Extruder Gear	Bag F7	1
22	Tube (bushings)	Bag F7	1
23	Bearing for Filament (U694)	Bag F7	1
27	Extruder Lever (mirrored)	Bag F7	1
28	Extruder Bracket (mirrored)	Bag F7	1
29	Extruder Stepper Motor (needs reference)2	Bag F7	1
31	Bed Support	Bag Y	1
32	Stepper Motor (42HD0401-24 34mm)	Bag Y1 (1x) Bag X1 (1x)	2
33	Timing Gear 15 tooth MXL	Bag Y1 (1x) Bag X1 (1x)	2
34	Y Belt (MXL 6mm) Length: ? Mm	Bag Y1	1
35	Y motor Bracket	Bag Y1	1
46	Rail MGN9	Bag Y3 (2x) Bag X4 (x1)	5
50	Printrboard	Bag P1	1
51	Plastic 5mm washer	Bag P1 (4x) Bag B1 (1x)	5
53	Y Track (MGN9 190mm)	Bag Y3 (2x)	2
54	Y Tracks connection	Bag B1	2
57	BED SPACER	Bag B1	2
60	Glass-bed	Bag B2	1
61	Extruder's adapter (Rail to tracks)	Bag E1	1
62	Rail (MGN9) (for extruder with tracks)	Bag E1	1
63	spring	Bag E1	1
64	Extruder stopper2	Bag E1	1
66	Auto-calibration Track (MGN9 39mm)	Bag E1	1
69	Hot-end bracket	Bag E1	1
70	End-stop (HT-010-1A-250VAC)	Bag E1 (1x) Bag (1x) Y2 Bag X1 (1x)	3
73	Heat Breaker (Hot-end)	Bag E2	1
74	Heat-sink (Hot-end)	Bag E2	1
75	Heat Block (hot-end)	Bag E2	1
76	Nozzle (0.4) (Hot-end)	Bag E2	1

79	FAN for Heat Sink (Hot-end)	Bag E3	1
80	Fan duct hacked (Hot-end)	Bag E3	1
81	Small Fan Mockup (hot-end)	Bag E3	2
82	X Bridge	Bag X	1
85	X Motor attachment mirrored	Bag X1	1
86	X Bridge spacer for end-stop	Bag X1	1
89	X Bridge spacer	Bag X1	1
90	X Belt (MXL 6mm) Length: ? Mm	Bag X1	1
92	X Track (MGN9 172mm)	Bag X4	1
93	socket head cap screw_iso2	Bag X2	3
94	F603HZZ_SOLID_1	Bag X3 (2x) Bag Y1 (4x)	6
99	Threaded Rod Female Special Nut	Bag X4	1
100	Z nut attachment to X Bridge	Bag X4	1
			93

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	times kits (15)		
49	Hexagon Flange Nut ISO - 4161 - M5 - N	Bag Y4	2	30	100	
6	Hexagon Thin Nut ISO - 4035 - M3 - N	Bag F1 (2x) Bag F2 (6x) Bag F3 (1x) Bag Y1 (4x) Bag B1 (13x) Bag X1 (1x) Bag X2 (4x) Bag X3 (1x) Bag X4 (1x) Bag P1 (4x) Bag E1 (2x)	39	585	600	
15	Hexagon Thin Nut ISO - 4035 - M5 - N	Bag F4 (6X) Bag F5 (2X)	8	120	200	
30	ISO 4027 - M2 x 3-N	Bag F7	1	15	100	
52	ISO 4762 M3 x 12 --- 12N	Bag P1 (4x) Bag B1 (1x)	5	75	100	
45	ISO 7045 - M2 x 10 - Z --- 10N	Bag Y2 (2x) Bag E1 (2x)	4	60	100	
58	ISO 7045 - M3 x 10 - Z --- 10N	Bag B1 (8x) Bag X4 (3x) Bag X1 (x1) Bag E2 (1x)	13	195	200	
78	ISO 7045 - M3 x 16 - Z --- 16N	Bag E3	12	180	200	
38	ISO 7045 - M3 x 20 - Z --- 20N	Bag Y1 (2x) Bag E1 (2x) Bag X3 (1x)	5	75	100	
5	ISO 7045 - M3 x 25 - Z --- 25N	Bag F1 (2x) Bag F7 (3X) Bag X1 (2x) Bag Y1 (2)	7	105	200	
47	ISO 7045 - M3 x 6 - Z --- 6N	Bag Y3	6	90	100	
67	ISO 7045 - M3 x 8 - Z --- 8N	Bag X1 (1x) Bag E1 (4x)	5	75	100	
26	ISO 7045 - M4 x 12 - Z --- 12N	Bag F7 (1x) Bag X1 (1x) Bag X4 (8)	1	15	100	
14	ISO 7045 - M5 x 10 - Z --- 10N	Bag F4	4	60	100	
13	ISO 7045 - M5 x 12 - Z --- 12N	Bag F4	2	30	100	
16	ISO 7045 - M5 x 20 - Z --- 20N	Bag F4	2	30	100	
10	ISO 7046-1 - M3 x 10 - Z --- 10N	Bag F3 (1X) Bag Y1 (4x) Bag Y3 (2x) Bag B1 (x1)	7	105	200	
4	ISO 7046-1 - M3 x 12 - Z --- 12N	Bag F1 (6x) Bag F6 (2x)	6	90	100	
25	ISO 7046-1 - M3 x 8 - Z --- 8N	Bag F7 (1x) Bag E1 (4x) Bag B1 (4x)	9	135	200	
18	ISO 7046-1 - M5 x 12 - Z --- 12N	Bag F5 (2x) Bag Y4 (2x)	2	30	100	
8	ISO 7380 - M3 x 10 --- 10N	Bag F2	6	90	100	
42	washer (M3 .8mm Dia 7mm) 10673 type snl_iso	Bag Y1 (2x) Bag X3 (1x)	3	45	100	
24	washer m4 .75mm diam 9mm	Bag F7	2	30	100	

BAG B1			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		13
52	ISO 4762 M3 x 12 --- 12N		1
25	ISO 7046-1 - M3 x 8 - Z --- 8N		4
58	ISO 7045 - M3 x 10 - Z --- 10N		8
10	ISO 7046-1 - M3 x 10 - Z --- 10N		1
54	Y Tracks connection		2
57	BED SPACER		2
51	Plastic 5mm washer		1
9	Magnet (12x3.79mm)		5
BAG B2			
60	Glass-bed		1
9	Magnet (12x3.79mm)		4
BAG E1			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		2
45	ISO 7045 - M2 x 10 - Z --- 10N		2
38	ISO 7045 - M3 x 20 - Z --- 20N		4
67	ISO 7045 - M3 x 8 - Z --- 8N		4
25	ISO 7046-1 - M3 x 8 - Z --- 8N		4
61	Extruder's adapter (Rail to tracks)		1
62	Rail (MGN9) (for extruder with tracks)		1
63	spring		1
64	Extruder stopper2		1
66	Auto-calibration Track (MGN9 39mm)		1
69	Hot-end bracket		1
70	End-stop (HT-010-1A-250VAC)		1
BAG E2			
58	ISO 7045 - M3 x 10 - Z --- 10N		1
73	Heat Breaker (Hot-end)		1
74	Heat-sink (Hot-end)		1
75	Heat Block (hot-end)	v	1
76	Nozzle (0.4) (Hot-end)	v	1
BAG E3			
78	ISO 7045 - M3 x 16 - Z --- 16N	v	6
79	FAN for Heat Sink (Hot-end)	v	1
80	Fan duct hacked (Hot-end)	v	1
81	Small Fan Mockup (hot-end)	v	2
82	Small zip tie		1
BAG F			
1	Z Frame		1
BAG F1			
2	Steeper Motor 34mm (42HD0401-135L)		1
3	Z Motor mount		1
6	Hexagon Thin Nut ISO - 4035 - M3 - N		2
5	ISO 7045 - M3 x 25 - Z --- 25N		2
4	ISO 7046-1 - M3 x 12 - Z --- 12N		6
BAG F2			
7	Z TRACK (MGN9 142.08mm)		2
8	ISO 7380 - M3 x 10 --- 10N		6
6	Hexagon Thin Nut ISO - 4035 - M3 - N		6

BAG F3			
9	Magnet (12x3.79mm)		1
6	Hexagon Thin Nut ISO - 4035 - M3 - N		1
10	ISO 7046-1 - M3 x 10 - Z --- 10N		1
BAG F4			
11	L shaped connector		4
12	Small foot		2
14	ISO 7045 - M5 x 10 - Z --- 10N		4
13	ISO 7045 - M5 x 12 - Z --- 12N		2
16	ISO 7045 - M5 x 20 - Z --- 20N		2
15	Hexagon Thin Nut ISO - 4035 - M5 - N		6
BAG F5			
15	Hexagon Thin Nut ISO - 4035 - M5 - N		2
18	ISO 7046-1 - M5 x 12 - Z --- 12N		2
BAG F6			
20	Knurl Adjuster		2
9	Magnet (12x3.79mm)		2
4	ISO 7046-1 - M3 x 12 - Z --- 12N		2
BAG F7			
21	Extruder Gear		1
22	Tube (bushings)		1
23	Bearing for Filament (U694)		1
27	Extruder Lever (mirrored)		1
28	Extruder Bracket (mirrored)		1
29	Extruder Stepper Motor (needs reference)2		1
30	ISO 4027 - M2 x 3-N		1
24	washer m4 .75mm diam 9mm		2
26	ISO 7045 - M4 x 12 - Z --- 12N		1
25	ISO 7046-1 - M3 x 8 - Z --- 8N		1
5	ISO 7045 - M3 x 25 - Z --- 25N		3
BAG Y			
31	Bed Support		1
BAG Y1			
34	Y Belt (MXL 6mm) Length: ? Mm		1
35	Y motor Bracket		1
32	Stepper Motor (42HD0401-24 34mm)		1
33	Timing Gear 15 tooth MXL		1
94	F603HZZ_SOLID_1		4
5	ISO 7045 - M3 x 25 - Z --- 25N		2
38	ISO 7045 - M3 x 20 - Z --- 20N		2
42	washer (M3 .8mm Dia 7mm) 10673 type snl_		2
6	Hexagon Thin Nut ISO - 4035 - M3 - N		4
10	ISO 7046-1 - M3 x 10 - Z --- 10N		4
BAG Y2			
70	End-stop (HT-010-1A-250VAC)		1
45	ISO 7045 - M2 x 10 - Z --- 10N		2

BAG Y3			
47	ISO 7045 - M3 x 6 - Z --- 6N		6
10	ISO 7046-1 - M3 x 10 - Z --- 10N		2
9	Magnet (12x3.79mm)		2
46	Rail MGN9		2
53	Y Track (MGN9 190mm)		2
BAG Y4			
17	Hinge 20x20l		1
49	Hexagon Flange Nut ISO - 4161 - M5 - N		2
18	ISO 7046-1 - M5 x 12 - Z --- 12N		2

BAG P1			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		4
52	ISO 4762 M3 x 12 --- 12N		4
50	Printboard		1
51	Plastic 5mm washer		4

BAG X1			
82	X Bridge		1

BAG X1			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		1
58	ISO 7045 - M3 x 10 - Z --- 10N		1
67	ISO 7045 - M3 x 8 - Z --- 8N		1
26	ISO 7045 - M4 x 12 - Z --- 12N		1
5	ISO 7045 - M3 x 25 - Z --- 25N		2
85	X Motor attachment mirrored		1
86	X Bridge spacer for end-stop		1
89	X Bridge spacer		1
90	X Belt (MXL 6mm) Length: ? Mm		1
32	Stepper Motor (42HD0401-24 34mm)		1
33	Timing Gear 15 tooth MXL		1
70	End-stop (HT-010-1A-250VAC)		1

BAG X2			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		4
93	socket head cap screw_iso2		3

BAG X3			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		1
38	ISO 7045 - M3 x 20 - Z --- 20N		1
42	washer (M3 .8mm Dia 7mm) 10673 type snl_iso		1
94	F603HZZ_SOLID_1		2

BAG X4			
6	Hexagon Thin Nut ISO - 4035 - M3 - N		1
58	ISO 7045 - M3 x 10 - Z --- 10N		3
26	ISO 7045 - M4 x 12 - Z --- 12N		8
92	X Track (MGN9 172mm)		1
99	Threaded Rod Female Special Nut		1
100	Z nut attachment to X Bridge		1
46	Rail MGN9		1

ITEM NO.	PART NUMBER	QTY
49	Hexagon Flange Nut ISO - 4161 - M5 - N	100
6	Hexagon Thin Nut ISO - 4035 - M3 - N	600
15	Hexagon Thin Nut ISO - 4035 - M5 - N	200
30	ISO 4027 - M2 x 3-N	100
52	ISO 4762 – M3 x 12 --- 12N	100
45	ISO 7045 - M2 x 10 - Z --- 10N	100
58	ISO 7045 - M3 x 10 - Z --- 10N	200
78	ISO 7045 - M3 x 16 - Z --- 16N	200
38	ISO 7045 - M3 x 20 - Z --- 20N	100
5	ISO 7045 - M3 x 25 - Z --- 25N	200
47	ISO 7045 - M3 x 6 - Z --- 6N	100
67	ISO 7045 - M3 x 8 - Z --- 8N	100
26	ISO 7045 - M4 x 12 - Z --- 12N	100
14	ISO 7045 - M5 x 10 - Z --- 10N	100
13	ISO 7045 - M5 x 12 - Z --- 12N	100
16	ISO 7045 - M5 x 20 - Z --- 20N	100
10	ISO 7046-1 - M3 x 10 - Z --- 10N	200
4	ISO 7046-1 - M3 x 12 - Z --- 12N	100
25	ISO 7046-1 - M3 x 8 - Z --- 8N	200
18	ISO 7046-1 - M5 x 12 - Z --- 12N	100
8	ISO 7380 - M3 x 10 --- 10N	100
42	washer (M3 – 0.8mm – 7mm) 10673 type snl_iso	100
24	washer (M4 – 0.75mm – 9mm)	100