

# **REMORPH DESIGN**

## **BILL OF MATERIALS**

**V\_BETA\_JAN26**

## FASTENERS: SCREWS

1	M2.5x8 Tapping Pan Torx	6
2	M3x8 Socket Hex Stainless Steel Black	50
3	M3x40 Socket Hex Stainless Steel Black	4
4	M3x6 Button Torx Stainless Steel Black	26
5	M3x10 Button Torx Stainless Steel Black	25
6	M3x14 Button Torx Stainless Steel Black	24
7	M3x20 Button Torx Stainless Steel Black	15
8	M3x6 Flat Torx Stainless Steel Black	54
9	M3x10 Flat Torx Stainless Steel Black	214
10	M3x14 Flat Torx Stainless Steel Black	37
11	M3x20 Flat Torx Stainless Steel Black	26
12	M3x30 Flat Torx Stainless Steel Black	7
13	M3x45 Flat Torx Stainless Steel Black	14
14	M4 ø5x10 Shoulder Screw	14
15	M5x10 Headless Hex	2
16	M5x20 Hex Bolt Stainless Steel Black	2
17	M5x12 Socket Hex Stainless Steel Black	8
18	M5 ø6x55 Shoulder Screw	4
19	M5x8 Button Torx Stainless Steel Black	24
20	M5x10 Button Torx Stainless Steel Black	56
21	M5x14 Button Torx Stainless Steel Black	14
22	M5x40 Button Torx Stainless Steel Black	11
23	M5x8 Flat Torx Stainless Steel Black	20
24	M5x10 Flat Torx Stainless Steel Black	156
25	M5x12 Flat Torx Stainless Steel Black	98
26	M5x14 Flat Torx Stainless Steel Black	9
27	M5x20 Flat Torx Stainless Steel Black	6
28	M5x25 Flat Torx Stainless Steel Black	6
29	M5x35 Flat Torx Stainless Steel Black	8
30	M5x40 Flat Torx Stainless Steel Black	2
31	M6x12 Flat Torx Stainless Steel Black	2
32	M8 to M5 Adapter 15mm	8
33	M8x40 Button Torx Stainless Steel Black	2

**FASTENERS: WASHERS**

34	M3x6x1 Washer Stainless Steel Black	52
35	M5x8x0.5 Washer Stainless Steel	8
36	M5x8x1 Washer Stainless Steel	90
37	M6x10x1 Washer Nylon	20
38	M8x16x2 Washer Steel or Aluminum Black	14

**FASTENERS: SPACERS**

39	M5x8x4 Round Spacer Black	56
40	M5x8x5 Round Spacer Black	27

**FASTENERS: STANDOFFS**

41	M3 (Tap) ø5x20 Standoff	4
42	M3 (Tap) ø5x25 Standoff	8
43	M5 (Tap) ø8x80 Standoff	1

**FASTENERS: HEAT-SET INSERTS**

44	M3x5x5 Heat Insert	334
45	M4x7x5 Heat Insert	28
46	M5x8x6 Heat Insert	22
47	M6x9x6 Heat Insert	6

**FASTENERS: NUTS**

48	M5x2.7 Hex Nut	1
49	M3 2020 T-Nut	50
50	M5 BS20 T-Nut	32
51	M5 2020 T-Nut	87
52	M5 BS30 T-Nut	24
53	M5 3030 T-Nut	202

**FRAME: JOINTS**

54	90° 2020 Corner Joint	42
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**FRAME: EXTRUSIONS**

55	2020 T-Slot 200mm	2
56	2020 T-Slot 400mm	6
57	2020 T-Slot 450mm	1
58	2020 T-Slot 500mm	2
59	3030 T-Slot 400mm	1
60	3030 N1 T-Slot 400mm	3
61	3030 N1 T-Slot 500mm	4
62	3030R T-Slot 700mm	4

**MOTION: BEARINGS**

63	Ball Bearing F698	11
64	Ball Bearing 695	43
65	Ball Bearing F695	90

**MOTION: SHAFTS**

66	5x20 Shaft	5
67	5x25 Shaft	15
68	5x35 Shaft	3
69	5x40 Shaft	10
70	5x65 Shaft	6
71	8x65 Shaft with Flat Side (D Type)	5

**MOTION: LINEAR RAILS**

72	MGN12H 400	4
73	MGN12H 450	2

**MOTION: GEARS**

74	2GT 16T B5 Pulley for 9mm Belt	3
75	2GT 20T B5 Pulley for 9mm Belt (Black)	2
76	2GT 20T B8 Pulley for 9mm Belt (Black)	5
77	2GT 80T B8 Pulley for 9mm Belt	3

**MOTION: BELTS**

78	9mm 2GT3 6897mm (8000mm Recommended)	1
79	Closed Loop 9mm 2GT2 210mm	3

**MOTION: SHAFT COUPLERS**

80	GND GTC 19x26 8x8 or 8 to 8mm Shaft Coupler ( $\varnothing$ 21x31mm MAX)	2
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**MOTION: BALL JOINTS**

81	M5 12mm Magnetic Steel Ball	3
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**MOTORS**

82	OMC ISV57T-180S or N23 146mm MAX	2
83	N17 48 or 60mm MAX	3

**ELECTRONICS: FANS**

84	ASB02505SHA-AY6B or 10x25mm Axial Fan	1
85	WS7040-24 with controller	2
86	9BMC24P2G001	1

**ELECTRONICS: POWER SUPPLIES**

87	LCW15US05	1
88	UHP-500-24	1
89	UHP-500-48	1

## ELECTRONICS: CONNECTORS

90	Degson 6p Set 15EDGKM-3.81-06P + 15CDGV-3.81-06P	9
91	Wago 221-415	3
92	AC Inlet IEC 320-C14 15GEEG3E	1
93	Fuse Holder SCHURTER 0031.2207	1

## ELECTRONICS: SWITCHES

94	Rocker Switch Bulgin C6050ALBR-1197W	1
95	16mm Panel Flat Push Button	1
96	16mm Red Mushroom Button	2

## ELECTRONICS: SENSORS

97	M3 PT1000	3
98	OPTEK OPB990T51Z	2
99	BEACON LP	1
100	BME680 Adafruit 3660	1
101	BTT SFS 2	1

## ELECTRONICS: PCBS

102	Recore A8	1
103	BTT EBB42	2
104	RPI USB 3.2 HUB HAT	1
105	Matek Mini Hub	1

## MISCELLANEOUS

106	TE Connectivity Potter SSRMP-240D16R	2
107	LED COB 24V 7W ø20mm	1
108	PC4-M6	7
109	3x5mm 2.3m EVA Strip (3m Recommended)	1
110	1x5mm 20.2m EVA Strip (22m Recommended)	1
111	ø6mm Sealing Rope 820.4mm (vacuum table)	1
112	CPAP Tube	2
113	ø40x10 Rubber Foot	4
114	Filament tube 2m	1
115	3x10x20mm Rubber for Nozzle Wipper	1
116	20x40x300mm Raceway	1
117	Nema 17 Rubber Damper 2mm	6
118	10x15x25 Magnet	3
119	ø5x5 Magnet	100
120	Printed Parts	?
121	Milled Parts	54
122	PC/CF Panels	10