ITEM NO. QTY. Per Subassembly		Qty Total	PART NUMBER	DESCRIPTION	Supplier 1: Links & Price ea.	Supplier 2: Links & Price ea.	
1	1		Herculien_Frame (Subassembly)				
1.1	4	4	HFS5-2020-609.5(holes_added)	20mmx20mm609.5mm aluminum extrusion for vertical supports at the corners. Extrusions requires holes be	\$15.00 / 1500mm	<u>\$3.47</u>	
	·		,	drilled. 3d model for drill guide available.			
1.2 1.3	2	2	HFS5-2080-569.5 (SidesBottom_Holes) HFS5-2080-569.5 (LeftTop_Holes)	20x80x569.5mm aluminum extrusions. 20x80x569.5mm aluminum extrusions.	\$30.00 / 1500mm \$30.00 / 1500mm	<u>\$11.90</u> \$11.90	
1.4	1	1	HFS5-2080-569.5 (RightTop_Holes)	20x80x569.5mm aluminum extrusions.	\$30.00 / 1500mm	\$11.9 <u>0</u> \$11.9 <u>0</u>	
1.5	3	3	HFS5-2080-569.5 (Default_No Holes)	20x80x569.5mm aluminum extrusions.	\$30.00 / 1500mm	\$11.90	
1.6 1.7	1	1	HFS5-2080-569.5 (BackTop_Holes) HFS5-2080-569.5 (FrontTop_Holes)	20x80x569.5mm aluminum extrusions. 20x80x569.5mm aluminum extrusions.	\$30.00 / 1500mm \$30.00 / 1500mm	<u>\$11.90</u> \$11.90	
1.7	2	2	V-Slot_20mmX80mm489.5mm	20mmx80mmx489.5mm Vslot Extrusion	\$20.00 / 1000	\$20.00 / 1000	
1.9	16	16	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100	
1.1 1.11	<u>6</u> 6	6	Optional: HSCA5-R_460mm Optional: HSCA5-R_569.5mm	T-SLot Covers (To Hold Clear Panels) T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm \$3.00 / 1000mm	\$2.38 / 2000mm \$2.38 / 2000mm	
	4	4	Optional: 4.3mm thick			ψ2.30 / 2000Hilli	
1.12	1	1	Acrylic_or_Polycarbonate_Rightside_Panel	http://goo.gl/oR3krK	\$15.70 (24"x24")		
1.13	1	1	Optional: 4.3mm thick Acrylic_or_Polycarbonate_Leftside_Panel	http://goo.gl/YAD9aY	\$15.70 (24"x24")		
4.44	4	4	Optional: 4.3mm thick	letter // era a ant/Dani I DAII I	Φ45.70 (0.4ll0.4ll)		
1.14	1	1 1 Acrylic_or_Polycarbonate_Backside_Panel http://goo.gl/BmHRNU		\$15.70 (24"x24")			
1.15	72	72 72 91239A224 5mm x 10mm button head screw		<u>\$7.93 / 100</u>			
1.16	16	16	94500A230	5mm x 8mm button head socket cap screw	\$6.15 / 50		
2	4		Top_Cover (Subassembly) (Optional,				
2	1		not needed for printer function)				
2.1	3	3	HFS5-2020-300	20x20x300mm Extruded Aluminum	\$10.00 / 1000mm	<u>\$1.71</u>	
2.2 2.3	<u>1</u> 8	8	HFS5-2020-300 (configuration) HFS5-2020-569.5	20x20x300mm Extruded Aluminum 20x20x569.5mm Extruded Aluminum	\$10.00 / 1000mm \$15.00 / 1500mm	\$1.71 \$3.24	
2.3	1	1	HFS5-2020-509.5	20x20x515mm Extruded Aluminum	\$15.00 / 1500mm	\$3.24 \$2.93	
2.5	1	1	HFS5-2020-100	20x20x100mm Extruded Aluminum	from drop cut	<u>\$3.03</u>	
2.6 2.7	<u> </u>	1 1	HFS5-2020-54.5 HHPSN5	20x20x54.5mm Extruded Aluminum  Hinge for 20x20 Extrusion	from drop cut \$5.60	<u>\$3.03</u>	
2.8	20	20	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100	
2.9	5	5	HSCA5-R_300mm	T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm	\$2.38 / 2000mm	
2.10	1	1	HSCA5-R_515mm	T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm	\$2.38 / 2000mm	
2.11 2.12	<u></u> 1	1	HSCA5-R_98mm HSCA5-R_48.5	T-SLot Covers (To Hold Clear Panels) T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm \$3.00 / 1000mm	\$2.38 / 2000mm \$2.38 / 2000mm	
2.13	1	1	HSCA5-R_200mm	T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm	\$2.38 / 2000mm	
2.14	11	11	HSCA5-R_569.5mm	T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm	\$2.38 / 2000mm	
2.15	4	4	HFC5-2020-B .177in thick Acrylic or Polycarbonate Left Front	Extrusion Endcap	\$1.88		
2.16	3	3	Back Cover	http://goo.gl/mjZ4er	\$15.70 (24"x24")		
2.17	1	1	.177in thick Acrylic or Polycarbonate Right Cover	http://goo.gl/rPAJGD	\$15.70 (24"x24")		
2.18	1	1	.177in thick Acrylic or Polycarbonate Split Top	http://goo.gl/l9hLrq	\$15.70 (24"x24")		
2.19	24	24	Cover 91239A224	5mm x 10mm button head socket cap screw	\$7.93 / 100		
2.20	16	16	91294A207	5mm x 8mm flat head socket cap screw	\$6.75 / 100		
2.21	2	2	1078A311	Plastic Handle	\$3.76		
2.22 2.23	2 4	<u>2</u> 4	90965A160 92290A228	5mm stainless flat washer 5mm x 12mm SST socket head cap screw	\$4.62 / 100 \$7.72 / 25		
2.24	2	2	HFS5-2020-567.5	20x20x567.5mm Extruded Aluminum	\$15.00 / 1500mm	\$3.23	
2.25	2	2	HFS5-2020-218	20x20x218mm Extruded Aluminum	\$15.00 / 1500mm	\$3.03	
2.26 2.27	2 	2 2	HSCA5-R_170mm HSCA5-R_537.5mm	T-SLot Covers (To Hold Clear Panels) T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm \$3.00 / 1000mm	\$2.38 / 2000mm \$2.38 / 2000mm	
3	1	_	Front_Door (Optional, Subassembly)	· Secretaria (10 11014 Stear I diliolo)	φοισση τσσοιπιπ	<del>\(  \text{  \text{ \text{ \text{ \text{ \text{ \text{ \text{  \text{ \text{ \text{ \text{ \text{  \text{ \text{   \text{  \text{  \text{  \text{   \qq                \qua</del>	
3.1	2	2	HFS5-2020-407.5	20x20x407.5mm Extruded Aluminum	\$10.00 / 1000mm	<u>\$2.32</u>	
3.2 3.3	2 	2	HFS5-2020-567.5 HHPSN5	20x20x567.5mm Extruded Aluminum  Hinge for 20x20 Extrusion	\$10.00 / 1000mm \$5.60	<u>\$3.23</u>	
3.4	8	8	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100	
3.5	2	2	HSCA5-R_537.5mm	T-SLot Covers (To Hold Clear Panels)	\$3.00 / 1000mm	\$2.38 / 2000mm	
3.6	2	2	HSCA5-R_407.5mm .177in thick	T-SLot Covers (To Hold Clear Panels)	<u>\$3.00 / 1000mm</u>	\$2.38 / 2000mm	
3.7	1	1	Acrylic_or_Polycarbonate_Door_Window	http://goo.gl/HMq1ng	\$15.70 (24"x24")		
3.8	8	8	91294A207	5mm x 8mm flat head socket cap screw	\$6.75 / 100		
3.9	4	4	91239A224  Power Supply (Subassembly)	5mm x 10mm button head socket cap screw	<u>\$7.93 / 100</u>		
4			Power Supply (Subassembly)	24V 450W Power Supply (Lower Watt Version can be			
4.1	1	1	Meanwell_SE-450-24	used with 120V bed)	<u>\$64.95</u>	<u>39.99</u>	
4.2	1	1	Power Supply Bracket 1	3D Printed	NA NA		
4.3	2	2	Power Supply Bracket 2	3D Printed	<u>NA</u>		
<b>5</b> 5.1	1	1	Electronics_Package (Subassembly)  Q24169PCDCC	Hoffman Qline Enclosure (233x153x84mm)	\$58.34	\$58.41	
5.2	11	11	Hinge(McMaster_1598A180)	Hinge top swing electronics out of the way	<u>\$1.83</u>	<u> </u>	
5.3	1	1	Azteeg X3 V2	Printer Controler Board	\$174.99 w/ stepper	\$109.99 or \$41.99	
5.4 5.5	<u> </u>	1 1	raspberrypi_b+ ViKi LCD	Raspberry Pi B+ Print Server (for octoprint / octopi) print controller lcd	\$39.99 \$75.00	\$12.99	
5.6	2	2	Jamicon_KF0410-01	40x40mm 24v fan	\$2.95	Ψ12.00	
5.7	1 lot	1 lot	Cable Sleaving	Cable Sleave to keep wiring clean	\$1.99 / Meter		
6	1	4	Outlet_And_Network_Mount	2D Drinte d	N I A		
6.1 6.2	1	1	Outlet_Switch_And_Network_Mount Amazon_Electrical_Fused_Plug	3D Printed Fuse & Power Socket 10A 250V 3 Pin IEC320 C14	<u>NA</u> \$3.01		
6.3	11	1	CAT5 Tooless IDC Keystone Jack	Network Keystone Jack	\$4.35		
7	1		Solid State Relay (Subassembly)				
7.1	1	1	G3NA_220B	20A DC to AC Solid State Relay (to run heated bed at	<u>\$27.32</u>		
7.2	2	2	HNTTSN5-5	120C AC) T-Slot Nuts	\$0.20	\$28.00 / 100	
7.3		2	91239A224	5mm x 10mm button head socket cap screw	\$7.93 / 100		
8	1		Y_Limit_Switch (Subassembly)				
8.1	1	1	XY_LimitSwitch_Mount_A  Micro Switch Button	3D Printed	NA \$1.00	¢2.00	
^ ^!	7	i 1	Micro Switch Button	NO / NC Limit Switch	<u>\$1.99</u>	\$2.00	
8.2 8.3	1	1	HNTTSN5-5	T-Slot Nuts	<u>\$0.20</u>	\$28.00 / 100	

o =l		1 ,	Totalogue	<del>l</del>	<b>1</b>	
8.5	11	1	91239A224  X_Limit_Switch (Subassembly)	5mm x 10mm button head socket cap screw	<u>\$7.93 / 100</u>	
9.1	<u> </u>	1	XY_LimitSwitch_Mount_B	3D Printed	NA	
9.2	1	1	Micro Switch Button	NO / NC Limit Switch	\$1.99	\$2.00_
9.3	1	1	HNTTSN5-5	T-Slot Nuts	\$0.20	<u>\$28.00 / 100</u>
9.4 9.5	2	2	94500A223 91239A224	3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw	\$6.08 / 100 \$7.93 / 100	
10	2		Drive_Corner_Bracket_A (Subassembly)	Silin x Tollin button nead socket cap screw	<u>\$7.93 / 100</u>	
10.1	1	2	Corner_Bearing_Bracket_A	3D Printed	NA	
10.2	14	28	HNTTSN5-5	T-Slot Nuts	<u>\$0.20</u>	<u>\$28.00 / 100</u>
10.3	2	4	5972K164	10mm x 22mm x 6mm (6900 series bearing)	\$9.99 / 10	
10.4 10.5	<u>2</u> 14	28	90214A422 91239A224	10mmx16mmx0.5mm Shim 5mm x 10mm button head socket cap screw	\$11.73 / 10 \$7.93 / 100	
11	2	20	Drive_Corner_Bracket_B (Subassembly)	Silin x Tollin button head socket cap screw	<u>\$7.937 100</u>	
11.1	 1	2	Corner_Bearing_Bracket_B	3D Printed	NA	
11.2	14	28	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100
11.3	2	4	5972K164	10mm x 22mm x 6mm (6900 series bearing)	\$9.99 / 10	
11.4 11.5	<u>2</u> 14	28	90214A422 91239A224	10mmx16mmx0.5mm Shim 5mm x 10mm button head socket cap screw	\$11.73 / 10 \$7.93 / 100	
12	1	20	X/Y Gantry Rods (Subassembly)	onim x romin button nead socket cap screw	<u>Ψ7.937 100</u>	
	4	4		10mm x 610mm hardened precicion rods for x/y axis	<b>#20.22</b>	
12.1	4	4	SFJ10-610	guides	<u>\$20.33</u>	
12.2	2	2	SFJ10-512	10mm x 512mm hardened precicion rods for x/y	\$15.10	
				overhead gantry	<u> </u>	
13.1	<b>2</b>	2	XY_Axis_Belt_Tensioner_A  XY Axis Belt Tensioner A	3D Printed	NA	
13.1	<u> </u>	2	XY Axis Belt Tensioner A  XY Axis Belt Tensioner Block A	3D Printed 3D Printed	NA NA	
13.3	2	4	a_7z41mpsb10m	10mm self aligning bronze sintered bushings	<u>\$9.99 / 4</u>	
13.4	2	4	91290A137	3mm x 50mm socket head cap screw	\$3.34 / 25	
13.5 13.6	<u>4</u> 1	8 2	90576A102 90591A146	3mm nylock hex nut 3mm standard hex nut (DIN 934)	\$3.27 / 100 \$2.08 / 100	
13.7	<u> </u>	2	91239A232	5mm x 16mm button head socket cap screw	\$8.82 / 100	
13.8	2	4	91290A125	3mm x 25mm socket head cap screw	\$11.74 / 100	
14	2		XY_Axis_Belt_Tensioner_B			
14.1	1	2	XY Axis Belt Tensioner B	3D Printed	NA NA	
14.2 14.3	<u> </u>	2	XY Axis Belt Tensioner Block B a_7z41mpsb10m	3D Printed 10mm self aligning bronze sintered bushings	<u>NA</u> \$9.99 / 4	
14.4	2	4	91290A137	3mm x 50mm socket head cap screw	\$3.34 / 25	
14.5	4	8	90576A102	3mm nylock hex nut	\$3.27 / 100	
14.6	1	2	90591A146	3mm standard hex nut (DIN 934)	\$2.08 / 100	
14.7 14.8	1 2	4	91239A232 91290A125	5mm x 16mm button head socket cap screw 3mm x 25mm socket head cap screw	\$8.82 / 100 \$11.74 / 100	
15	1	4	XY Gantry Belts and Pullies	Silin X 23ilin socket nead cap screw	\$11.747 100	
15.1	10	10	GT2_Aluminum_Timing_Pulley_32_Tooth	GT2 2mm pitch, 10mm ID, 32 tooth pulley	\$2.10	
15.2	5	5	Bulk GT2 (2MM pitch x 6mm wide) Belt	Bulk GT2 (2MM pitch x 6mm wide) Belt	\$1.8 / Meter	\$2 / meter
15.3	2	2	A 6R51M113060	113 tooth (226mm long) closed loop GT2 Belt (2mm	<u>\$0.50</u>	<b>\$4.86</b>
				pitch x 6mm wide)	<u> </u>	<u> </u>
4.0	2		V/V Cantru Drive Mater (Cubecombly)			
16 1	2	2	X/Y Gantry Drive Motor (Subassembly)	3D Printed	NΔ	
16.1	1	2	External_Motor	3D Printed High Torque 6.5kg/cm 60mm Long Nema 17 Stepper	NA \$44.80	
16.1 16.2	1	2	External_Motor  NEMA_17_60mm_1.5A	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor	<u>\$11.80</u>	
16.1 16.2 16.3	1 1 4	2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor 3mm x 50mm socket head cap screw	\$11.80 \$3.34 / 25	Ф20 00 / 100
16.1 16.2 16.3 16.4	1	2 8 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor 3mm x 50mm socket head cap screw T-Slot Nuts	\$11.80 \$3.34 / 25 \$0.20	\$28.00 / 100 \$5.49
16.1 16.2 16.3	1 1 4	2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor 3mm x 50mm socket head cap screw	\$11.80 \$3.34 / 25	\$28.00 / 100 \$5.49
16.1 16.2 16.3 16.4 16.5 16.6 16.7	1 1 4 4 1	2 8 8 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor 3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch)	\$11.80 \$3.34 / 25 \$0.20 \$1.85	
16.1 16.2 16.3 16.4 16.5 16.6 16.7	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 <b>17</b>	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 <b>17</b> 17.01	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17.01 17.01 17.02 17.03 17.04	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw 3D Printed 3D Printed 3D Printed 3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17.01 17.02 17.03 17.04 17.05	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17.01 17.02 17.03 17.04 17.05 17.06	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17.01 17.02 17.03 17.04 17.05	1 1 4 4 1 4	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17.01 17.02 17.03 17.04 17.05 17.06	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 2 8	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17 17.01 17.02 17.03 17.04 17.05 17.06 17.07	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 4	2 8 8 2 8 8 1 1 1 1 1 1 1 4	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7 17 17.01 17.02 17.03 17.04 17.05 17.06 17.07	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 4	2 8 8 2 8 8 1 1 1 1 1 1 1 4	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA NA NA	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 2 2	2 8 8 8 8 1 1 1 1 1 1 4 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA NA NA	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 2 2 2	2 8 8 8 8 1 1 1 1 1 1 4 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth 94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 10mm self aligning bronze sintered bushings Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used)	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA NA NA	
16.1 16.2 16.3 16.4 16.5 16.6 16.7  17.01 17.02 17.03 17.04 17.05 17.06 17.07  17.08  17.09  17.10 17.11	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2	2 8 8 8 8 1 1 1 1 1 1 4 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used)  included with e3d kit (needs to be 24v if 24V power supply is used)  3mm hex nut (Din 934)	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA S9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100	
16.1 16.2 16.3 16.4 16.5 16.6 16.7  17.01 17.02 17.03 17.04 17.05 17.06 17.07  17.08  17.09  17.10 17.11 17.12	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 2 2 2	2 8 8 8 8 1 1 1 1 1 1 4 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used)  included with e3d kit (needs to be 24v if 24V power supply is used)  3mm hex nut (Din 934)  3mm x 20mm button head socket cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50	
16.1 16.2 16.3 16.4 16.5 16.6 16.7  17.01 17.02 17.03 17.04 17.05 17.06 17.07  17.08  17.09  17.10 17.11	1 1 4 4 4 7 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 4	2 8 8 8 8 1 1 1 1 1 1 4 2 2 2 2 11 4	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts  20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used)  included with e3d kit (needs to be 24v if 24V power supply is used)  3mm hex nut (Din 934)	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA S9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15	1 1 4 4 4 7 2 2 2 11 4 7 2 2	2 8 8 8 8 1 1 1 1 1 1 1 4 2 2 2 2 11 4 7 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 10mm self aligning bronze sintered bushings Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 18mm socket head cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15  17.16	1 1 4 4 4 7 2 2 2 2 2 2 2 2 2	2 8 8 8 8 1 1 1 1 1 1 4 2 2 2 2 2 11 4 7 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Double Carriage_E3DV6  Blower_Duct_1  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 10mm self aligning bronze sintered bushings Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 16mm button head socket cap screw 3mm x 18mm socket head cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15  17.16	1 1 4 4 4 7 2 2 2 11 4 7 2 2	2 8 8 8 8 1 1 1 1 1 1 1 4 2 2 2 2 2 11 4 7 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm oversized flat washer (Din 9021) 3mm x 20mm socket head cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$6.00 / 100	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1	1 1 4 4 4 7 2 2 2 2 2 2 2 2 2	2 8 8 8 8 1 1 1 1 1 1 1 4 2 2 2 2 11 4 7 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 4D Printed 5D V6 is designed for 12V system) 5D Sox50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) 5D Sox50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) 5D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$6.00 / 100	
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15  17.16	1 1 4 4 4 7 2 2 2 2 2 2 2 2 2	2 8 8 8 8 1 1 1 1 1 1 1 2 2 2 2 2 11 4 7 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw  T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch)  3mm x 10mm button head socket cap screw  5mm x 10mm button head socket cap screw  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  3D Printed  10mm self aligning bronze sintered bushings  Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system)  50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm oversized flat washer (Din 9021) 3mm x 20mm socket head cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$6.00 / 100	
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16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1  18.2  18.3  19  19.1.1	1 1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 4 7 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 1 1 1 1 1 1 1 1 1 4 2 2 2 2 2 2 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob  90591A121  94500A222  Z_Bed_Assembly  Z_Axis_Module (Sub-Sub Assembly)  MTSBRW12-480-F10-V8-S26-Q8	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw  3D Printed 4Domm self aligning bronze sintered bushings 4D Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm x 18mm socket head cap screw 3mm versized flat washer (Din 9021) 3mm hex nut (Din 934) 3mm hex nut (Din 934) 3mm x 20mm socket head cap screw  3D Printed 3mm hex nut (Din 934) 3mm x 8mm button head socket cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$1.10 / 100 \$5.90 / 100	\$5.49
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1  18.2  18.3  19  19.1	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 4 7 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 8 1 1 1 1 1 1 1 1 4 2 2 2 2 2 11 4 7 2 2 2 2 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob  90591A121  94500A222  Z_Bed_Assembly  Z_Axis_Module (Sub-Sub Assembly)  MTSBRW12-480-F10-V8-S26-Q8  Z_Leadscrew_Bearing_Holder_Top	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw  3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 10mm self aligning bronze sintered bushings Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 16mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm x 20mm socket head cap screw 3mm x 20mm socket head cap screw 3D Printed 3mm hex nut (Din 934) 3mm x 20mm socket head cap screw 3D Printed 3mm hex nut (Din 934) 3mm x 8mm button head socket cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$6.00 / 100 NA \$1.39 / 100 \$5.90 / 100	\$5.49
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1  18.2  18.3  19  19.1.1	1 1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 4 7 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 1 1 1 1 1 1 1 1 1 4 2 2 2 2 2 2 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob  90591A121  94500A222  Z_Bed_Assembly  Z_Axis_Module (Sub-Sub Assembly)  MTSBRW12-480-F10-V8-S26-Q8  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw  3D Printed 4Domm self aligning bronze sintered bushings 4D Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm x 18mm socket head cap screw 3mm versized flat washer (Din 9021) 3mm hex nut (Din 934) 3mm hex nut (Din 934) 3mm x 20mm socket head cap screw  3D Printed 3mm hex nut (Din 934) 3mm x 8mm button head socket cap screw	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$1.10 / 100 \$5.90 / 100	\$5.49
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.09  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1  18.2  18.3  19  19.1.1	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 8 1 1 1 1 1 1 1 1 1 4 2 2 2 2 2 2 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob  90591A121  94500A222  Z_Bed_Assembly  Z_Axis_Module (Sub-Sub Assembly)  MTSBRW12-480-F10-V8-S26-Q8  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw  3D Printed 4D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 16mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm x 18mm socket head cap screw 3mm x 20mm socket head cap screw 3mm x 8mm button head socket cap screw  12mm Lead Screw 480L (both ends stepped to 8mm) 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$1.10 / 100 \$5.90 / 100 \$5.90 / 100	\$5.49 \$5.49
16.1  16.2  16.3  16.4  16.5  16.6  16.7  17  17.01  17.02  17.03  17.04  17.05  17.06  17.07  17.08  17.10  17.11  17.12  17.13  17.14  17.15  17.16  18  18.1  18.2  18.3  19  19.1.1	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 8 1 1 1 1 1 1 1 1 1 4 2 2 2 2 2 2 2 2 2 2	External_Motor  NEMA_17_60mm_1.5A  91290A137  HNTTSN5-5  GT2_Aluminum_Timing_Pulley_20_Tooth  94500A223  91239A224  Carriage_Dual_E3DV6  Double Carriage_E3DV6  Dual_Bowden_Tube_Carriage_Adapter_E3DV6  Blower_Duct_1  Blower_Duct_1Mirror  Front_Clamp_With_Fan_Mount_E3DV6  Dual_Fan_Shroud_E3DV6  a_7z41mpsb10m  E3D_V6  50x50x15_Fonsoning_FSY5015S24H_Blower  30x30_Fan  90591A121  92095A185  92095A184  91292A029  91100A120  91292A123  Manual_Movement_Knob  Rod_End_Knob  90591A121  94500A222  Z_Bed_Assembly  Z_Axis_Module (Sub-Sub Assembly)  MTSBRW12-480-F10-V8-S26-Q8  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top  Z_Leadscrew_Bearing_Holder_Top	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor  3mm x 50mm socket head cap screw T-Slot Nuts 20 tooth GT2 Pulley (5mm ID) (2mm pitch) 3mm x 10mm button head socket cap screw 5mm x 10mm button head socket cap screw  3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed 10mm self aligning bronze sintered bushings Hot End (need 24V fan and heater cartridge if 24V power supply is used, by default E3D V6 is designed for 12V system) 50x50x15 centrifugal blower fan (needs to be 24V if 24V power supply is used) included with e3d kit (needs to be 24v if 24V power supply is used) 3mm hex nut (Din 934) 3mm x 20mm button head socket cap screw 3mm x 16mm button head socket cap screw 3mm x 18mm socket head cap screw 3mm x 20mm socket head cap screw 3mm x 20mm socket head cap screw 3D Printed 3D Printed 3D Printed 3D Printed 3D Printed	\$11.80 \$3.34 / 25 \$0.20 \$1.85 \$6.08 / 100 \$7.93 / 100 NA NA NA NA NA NA NA \$9.99 / 4 \$79.99 \$6.81 Request 24v when ordering \$1.39 / 100 \$5.31 / 50 \$8.85 / 100 \$5.60 / 100 \$1.10 / 100 \$1.10 / 100 \$5.90 / 100 \$5.90 / 100	\$5.49

19.1.6 19.1.7 19.1.8 19.2 19.2.1 19.2.2 19.2.3 19.2.4 19.2.5 19.2.6	2 4 2 <b>2</b> 1	4 8 4	91290A252 HNTTSN5-5 91239A232 Z_Gantry_Angle_Plate (Sub-Sub Assembly) Z_Gantry_Plate	5mm x 25mm socket head cap screw T-Slot Nuts 5mm x 16mm button head socket cap screw ASTM B221-08 6063-T52 Aluminum Architectural Unequal Leg Angle 3-	\$7.24 / 50 \$0.20 \$8.82 / 100	\$28.00 / 100
19.1.8 19.2 19.2.1 19.2.2 19.2.3 19.2.4 19.2.5 19.2.6	2 <b>2</b> 1	4	91239A232  Z_Gantry_Angle_Plate (Sub-Sub Assembly)	5mm x 16mm button head socket cap screw ASTM B221-08 6063-T52 Aluminum	\$8.82 / 100	<u>\$28.00 / 100</u>
19.2.1 19.2.2 19.2.3 19.2.4 19.2.5 19.2.6	<b>2</b> 1 4	-	Z_Gantry_Angle_Plate (Sub-Sub Assembly)	ASTM B221-08 6063-T52 Aluminum		
19.2.1 19.2.2 19.2.3 19.2.4 19.2.5 19.2.6	1	2				
19.2.2 19.2.3 19.2.4 19.2.5 19.2.6		2	Z_Gantry_Plate			
19.2.2 19.2.3 19.2.4 19.2.5 19.2.6		2	Z_Gantry_Plate	I Architectural I Inequal Lea Angle 3-		
19.2.3 19.2.4 19.2.5 19.2.6				, s	<u>\$8.88</u>	
19.2.3 19.2.4 19.2.5 19.2.6		_		1/2" x 1-1/4" x 1/8"	<b>A</b>	
19.2.4 19.2.5 19.2.6		8	Dual_V_Wheel_Bolt_Assembly	Open Builds V-slot wheel kit	\$3.85	\$3.85
19.2.5 19.2.6	4	8	1/4" Eccentric Spacer	1/4" Eccentric Spacer	<u>\$2.00</u>	<u>\$2.00</u>
19.2.5 19.2.6	1	2	MTSRN12	12mm / 2mm pitch lead screw nut	<u>\$25.95</u>	Not needed with
19.2.6	ı		WITSKINIZ	12mm / 2mm pitch lead screw hut	<u>Φ25.95</u>	ball screw
	4	8	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100
	4	8	94500A230	5mm x 8mm button head socket cap screw	\$6.15 / 50	
19.2.7	2	4	91239A224	5mm x 10mm button head socket cap screw	\$7.93 / 100	
19.3	1		Heated_Bed_Assembly			
19.3.01	1	1	Aluminum_Build_Plate	1/4" ASTM B209-10 5052-H32 Aluminum Plate	\$32.07	
19.3.02	<u> </u>	1	MDF_Insulator_Board	3/4" MDF Insulator board from local hardware store	\$11.97	
19.3.03	4	4	92125A219	5mm x 70mm flat head socket cap screw	\$4.38 / 10	
19.3.04	4	4	9657K292	Spring (0.75"L x 0.50"OD x 0.062"wire)	\$8.38 / 6	
19.3.05	14	14	91100A140	5mm oversized flat washer (DIN 9021)	\$3.45 / 100	
19.3.06	2	2	92125A220	5mm x 30mm flat head socket cap screw	\$6.55 / 25	
19.3.07	6	6	94205A240		\$6.09 / 50	
19.3.08	4	4	94545A225	5mm nylock nut (DIN 985)	\$6.09 / 30 \$6.21 / 10	
19.3.06	4	4		5mm wing nut (DIN 315)	<u>φυ.Ζ1 / 10</u>	
19.3.09	1	1	380mmx380mm_800W_	AliRubber Custom Silicon Heated Bed (You can spec	\$34.30 + Shipping	
<b></b>			120V_Silicone_Heater(Alirubber)	Voltage, Wattage, Size, Thermistor Location, Etc.)	<del></del>	
19.3.10	1	1	Window_Glass_420mm X 430mm	Window Glass 420mm X 430mm or Boro Glass	<u>\$5.00</u>	
19.3.11	2	2	Bed_Glass_Clip	3D Printed	NA NA	
19.3.12	2	2	Bed_Glass_Clip_Mirror	3D Printed	<u>NA</u>	
19.3.13	2	2	HFS5-2020-519_5	20x20x519.5mm Extruded Aluminum	\$15.00 / 1500mm	<u>2.95</u>
19.4	1		Z_Limit_Assembly			
19.4.1	1	1	Limit Switch Mounting Bracket	Aluminum Limit Switch Mounting Bracket	<u>\$2.00</u>	\$2.00
19.4.2	1	1	Micro Switch Button	NO / NC Limit Switch	<u>\$1.99</u>	<u>\$2.00</u>
19.4.3	1	1	HNTTSN5-5	T-Slot Nuts	<u>\$0.20</u>	<u>\$28.00 / 100</u>
19.4.4	2	2	94500A223	3mm x 10mm button head socket cap screw	\$6.08 / 100	
19.4.5	2	2	93475A210	3mm flat washer (DIN 125)	\$1.62 / 100	
19.4.6	1	1	91239A224	5mm x 10mm button head socket cap screw	\$7.93 / 100	
20	1		Z_Drive_Mount_With_Nema17_60mm			
20.1	1	1	External Motor	3D Printed	NA	
	<u>,                                      </u>	'	External_iviolor	High Torque 6.5kg/cm 60mm Long Nema 17 Stepper		
20.2	1	1	NEMA_17_60mm_1.5A	Motor	<u>\$11.80</u>	
20.3	4	4	91290A137	3mm x 50mm socket head cap screw	\$3.34 / 25	
	•		HNTTSN5-5	T-Slot Nuts		\$28.00 / 100
20.4	4	4			<u>\$0.20</u> \$1.85	
	1	1 1	GT2_Aluminum_Timing_Pulley_20_Tooth	20 tooth GT2 Pulley (5mm ID) (2mm pitch)		<u>\$5.49</u>
20.6	4	4	94500A223	3mm x 10mm button head socket cap screw	\$6.08 / 100	
20.7	1	1	Timing Belt GT2 Profile - 2mm pitch - 6mm wide	1164mm Long GT2 (2mm pitch) (6mm wide) (1164mm	\$9.95	
			1164mm long	Long)		
20.8	4	4	91239A224	5mm x 10mm button head socket cap screw	<u>\$7.93 / 100</u>	
21	2		Z_Belt_Idler			
21.1	1	2	Z_ldler_Slide_Support	3D Printed	<u>NA</u>	
21.2	1	2	Smooth_Idler_Pulley kit	GT2 Smooth Idler Pulley	<u>\$4.85</u>	<u>\$4.85</u>
21.3	2	4	HNTTSN5-5	T-Slot Nuts	<u>\$0.20</u>	<u>\$28.00 / 100</u>
21.4	1	2	91290A254	5mm x 30mm socket head cap screw	<u>\$7.87 / 50</u>	
21.5	1	2	91239A224	5mm x 10mm button head socket cap screw	<u>\$7.93 / 100</u>	
22	2		Spool and Holder			
22.1	1	2	Spool_Holder_Flange	3D Printed	NA	
22.2	 1	2	50mm_Threaded_Spool_Holder_Full_Round	3D Printed	NA	
22.3	4	8	HNTTSN5-5	T-Slot Nuts	\$0.20	\$28.00 / 100
22.4	4	8	91239A224	5mm x 10mm button head socket cap screw	\$7.93 / 100	<del></del>
23	2		HercuStruder_V2	(recommended alternative = Bondtech Extruder)	<u>ψ1.507 100</u>	
	<u> </u>	-		·	KI A	
23.01	<u> </u>	2	HercuLien_Extruder_Base_V2	3D Printed	NA NA	
23.02	1	2	HercuStruder_Bearing_Pivot	3D Printed	NA NA	
23.03	1	2	HercuStruder_Dogbone_Connector	3D Printed	NA NA	
23.04	1	2	HercuStruder_Pin	3D Printed	NA NA	
23.05	2	4	Bowden_Tube_Nut_Trap	3D Printed	<u>NA</u>	<b>000 00 / 100</b>
23.06	2	4	HNTTSN5-5	T-Slot Nuts	<u>\$0.20</u>	<u>\$28.00 / 100</u>
23.07	1	2	4mmODx2mmID_Teflon_Tube_Section	Teflon tube for extruder drive inlet and bowden tube	<u>\$12.00</u>	
	-			from extruder to the carriage		*
23.08	1	2	608ZZ-8x22x7	608ZZ Bearing	<u>\$0.90</u>	<u>\$0.30</u>
23.09	1	2	8mm_Shaft_Hobb_Gear	Filament Drive Gear	<u>\$9.95</u>	
23.10	1	2	NEMA_17_5.18_Planetary	5.18:1 planetary reduced 40mm Long Nema 17	\$30.00	
20.10	ı		·	Stepper Motor		
	4	8	90591A121	3mm hex nut (Din 934)	\$1.39 / 100	
23.11	2	4	91290A137	3mm x 50mm socket head cap screw	\$3.34 / <u>25</u>	
23.12	4	8	93475A210	3mm flat washer (DIN 125)	<u>\$1.62 / 100</u>	
23.12 23.13		4	91100A120	3mm oversized flat washer (Din 9021)	<u>\$1.10 / 100</u>	
23.12	2			One way 4 One was brothers be and a called a pro-	\$4.00 / 100	
23.12 23.13	2 2	4	92095A183	3mm x 12mm button head socket cap screw	Ψ00 / 100	
23.12 23.13 23.14			92095A183 94500A223	3mm x 12mm button head socket cap screw 3mm x 10mm button head socket cap screw	\$6.08 / 100	
23.12 23.13 23.14 23.15	2	4		·		
23.12 23.13 23.14 23.15 23.16	2 4	4 8	94500A223	3mm x 10mm button head socket cap screw	\$6.08 / 100	
23.12 23.13 23.14 23.15 23.16 23.17	2 4 2	4 8 4	94500A223 91290A135	3mm x 10mm button head socket cap screw 3mm x 35mm socket head cap screw	\$6.08 / 100 \$9.07 / 50	
23.12 23.13 23.14 23.15 23.16 23.17 23.18	2 4 2 2	4 8 4 4	94500A223 91290A135 90576A102	3mm x 10mm button head socket cap screw 3mm x 35mm socket head cap screw 3mm nylock hex nut	\$6.08 / 100 \$9.07 / 50 \$3.27 / 100	

## Other good suppliers and resources for parts

Bolts: <a href="http://www.trimcraftaviationrc.com/">http://www.trimcraftaviationrc.com/</a>
Extruder: <a href="http://www.bondtech.se/">http://www.bondtech.se/</a>

Part#	ty Description	Cost/Each	Total Cost	Link
		COU ECON		http://www.amazon.com/Lexan-Sheet-Polycarbonate-Thick-Nominal/dp/B00CAWRVJO/ref=pd_sim_sbs_indust_12?ie=UTF8&refRID=1PFE2E4NCQ
.177in thick Acrylic or Polycarbonate 1/4" Eccentric Spacer	7 .177in thick Acrylic or Polycarbonate 8 1/4" Eccentric Spacer	\$15.70 \$2.00	\$109.90 \$16.00	N54G3M8816
1078A311	3 Plastic Handle	\$3.76	\$11.28	http://www.mcmaster.com/#cad-2d/=w7lpr0
30x30_Fan 380mmx380mm 800W	included with e3d kit (needs to be 24v if 24V power supply is 2 used)  AliRubber Custom Silicon Heated Bed (You can spec Voltage,		\$0.00	
120V_Silicone_Heater(Alirubber)	1 Wattage, Size, Thermistor Location, Etc.)	\$34.30	\$34.30	
4mmODx2mmID_Teflon_Tube_Section	Teflon tube for extruder drive inlet and bowden tube from 2 extruder to the carriage	\$12.00	\$24.00	
50x50x15_Fonsoning_FSY5015S24H_Blower	50x50x15 centrifugal blower fan (needs to be 24V if 24V power 2 supply is used)	\$6.81	\$13.62	
5972K164	1 10mm x 22mm x 6mm (6900 series bearing) (10 pack)	\$9.99	\$9.99	http://www.fasteddybearings.com/10-units-10x22x6-rubber-sealed-bearing-6900-2rs/
608ZZ-8x22x7 8mm_Shaft_Hobb_Gear	6 608ZZ Bearing 2 Filament Drive Gear	\$0.30 \$9.95	\$1.80 \$19.90	
90214A422 90576A102	1 10mmx16mmx0.5mm Shim (10 pack) 1 3mm nylock hex nut (25 pack)	\$11.73 \$0.44	\$11.73 \$0.44	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=234
90591A121 90965A160	2 3mm hex nut (Din 934) (25 pack) 1 5mm stainless flat washer (25 pack)	\$0.24 \$0.19	\$0.48 \$0.19	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=133 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=231
91100A120 91100A140	1 3mm oversized flat washer (Din 9021) (100 pack) 1 5mm oversized flat washer (DIN 9021) (100 pack)	\$1.10 \$3.45	\$1.10 \$3.45	http://www.mcmaster.com/#91100a120/=w7kv5a http://www.mcmaster.com/#91100a140/=w7kusz
91239A224	3 5mm x 10mm button head screw	\$7.93	\$23.79	http://www.mcmaster.com/#91239a224/=w7kw2c
91239A232 91290A125	1 5mm x 16mm button head socket cap screw (25 pack) 1 3mm x 25mm socket head cap screw (25 pack)	\$1.22 \$0.89	\$1.22 \$0.89	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=52 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=197
91290A135 91290A137	1 3mm x 35mm socket head cap screw (25 pack) 1 3mm x 50mm socket head cap screw (25 pack)	\$0.89 \$3.34	\$0.89 \$3.34	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=194 http://www.mcmaster.com/#91290a137/=w7l1at
91290A252 91290A254	1 5mm x 25mm socket head cap screw (25 pack) 1 5mm x 30mm socket head cap screw (12 pack)	\$1.91 \$1.31	\$1.91 \$1.31	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=179 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=180
91292A029 91292A123	1 3mm x 18mm socket head cap screw (25 pack) 1 3mm x 20mm socket head cap screw (25 pack)	\$0.89 \$0.84	\$0.89 \$0.84	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=434 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=170
91294A207 92095A183	1 5mm x 8mm flat head socket cap screw (100 pack) 1 3mm x 12mm button head socket cap screw (25 pack)	\$6.57 \$0.77	\$6.57 \$0.77	http://www.mcmaster.com/#91294a207/=w7lc9s http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=23
92095A184 92095A185	1 3mm x 16mm button head socket cap screw (25 pack) 1 3mm x 20mm button head socket cap screw (25 pack) 1 3mm x 20mm button head socket cap screw (25 pack)	\$0.83 \$0.99	\$0.83 \$0.99	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=26 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=26 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=27
92125A219 92125A220	1 5mm x 20mm flat head socket cap screw (25 pack) 1 5mm x 70mm flat head socket cap screw (10 pack) 1 5mm x 30mm flat head socket cap screw (25 pack)	\$0.99 \$4.38 \$6.55	\$4.38 \$6.55	http://www.mcmaster.com/#92125a219/=w7lg57 http://www.mcmaster.com/#92125a220/=w7lhvz
92290A228	1 5mm x 12mm SST socket head cap screw (25 pack)	\$7.72	\$7.72	http://www.mcmaster.com/#92290a228/=w7lj6a
93475A210 94150A335	1 3mm flat washer (DIN 125) (25 pack) 1 4mm hex nut (DIN 934) (25 pack)	\$0.14 \$0.34	\$0.14 \$0.34	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=230 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=134
94205A240 94500A222	1 5mm nylock nut (DIN 985) (25 pack) 1 3mm x 8mm button head socket cap screw (25 pack)	\$0.66 \$0.52	\$0.66 \$0.52	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=236 http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=25
94500A223 94500A230	2 3mm x 10mm button head socket cap screw (25 pack) 1 5mm x 8mm button head socket cap screw (50 pack)	\$0.64 \$6.15	\$1.28 \$6.15	http://www.trimcraftaviationrc.com/index.php?_a=product&product_id=37 http://www.mcmaster.com/#94500a230/=w7lmba
94545A225 9657K283	1 5mm wing nut (DIN 315) (10 pack) 1 Spring (0.75"L x 0.187" OD x 0.029" Wire) (12 pack)	\$6.21 \$10.35	\$6.21 \$10.35	http://www.mcmaster.com/#94545a225/=w7lnl4 http://www.mcmaster.com/#9657k283/=w7lo18
9657K292	1 Spring (0.75"L x 0.50"OD x 0.062"wire) (6 pack) 113 tooth (226mm long) closed loop GT2 Belt (2mm pitch x	\$8.84	\$8.84	http://www.mcmaster.com/#9657k292/=w7loha
A 6R51M113060 a_7z41mpsb10m	2 6mm wide) 3 10mm self aligning bronze sintered bushings (4 pack)	\$0.50 \$9.99	\$1.00 \$29.97	
Aluminum_Build_Plate	1 1/4" ASTM B209-10 5052-H32 Aluminum Plate	\$32.07	\$32.07	
Amazon_Electrical_Fused_Plug Azteeg X3 V2	1 Fuse & Power Socket 10A 250V 3 Pin IEC320 C14 1 Printer Controler Board	\$3.01 \$174.99	\$3.01 \$174.99	
Bulk GT2 (2MM pitch x 6mm wide) Belt Cable Sleaving	Bulk GT2 (2MM pitch x 6mm wide) Belt     Cable Sleave to keep wiring clean	\$1.80 \$1.99	\$9.00 \$0.00	
CAT5 Tooless IDC Keystone Jack Dual_V_Wheel_Bolt_Assembly	<ul><li>1 Network Keystone Jack</li><li>8 Open Builds V-slot wheel kit</li></ul>	\$4.35 \$3.85	\$4.35 \$30.80	
	Hot End (need 24V fan and heater cartridge if 24V power supply			
E3D_V6	2 is used, by default E3D V6 is designed for 12V system)	\$79.99	\$159.98	
G3NA_220B GT2_Aluminum_Timing	1 20A DC to AC Solid State Relay (to run heated bed at 120C AC)	\$27.32	\$27.32	
_Pulley_36_Tooth GT2_Aluminum_Timing_Pulley_20_Tooth	2 GT2 2mm pitch, 8mm ID, 36 tooth pulley 3 20 tooth GT2 Pulley (5mm ID) (2mm pitch)	\$2.50 \$1.85	\$5.00 \$5.55	
GT2_Aluminum_Timing_Pulley_32_Tooth	10 GT2 2mm pitch, 10mm ID, 32 tooth pulley	\$2.10	\$21.00	
HFC5-2020-B HFS5-2020-100	4 Extrusion Endcap 1 20x20x100mm Extruded Aluminum	\$1.88 \$3.03	\$7.52 \$3.03	
HFS5-2020-218 HFS5-2020-300	2 20x20x218mm Extruded Aluminum 4 20x20x300mm Extruded Aluminum	\$3.03 \$1.71	\$6.06 \$6.84	
HFS5-2020-407.5 HFS5-2020-515	2 20x20x407.5mm Extruded Aluminum 1 20x20x515mm Extruded Aluminum	\$2.32 \$2.93	\$4.64 \$2.93	
HFS5-2020-519_5 HFS5-2020-54.5	2 20x20x519.5mm Extruded Aluminum 1 20x20x54.5mm Extruded Aluminum	2.95 \$3.03	\$5.90 \$3.03	
HFS5-2020-567.5 HFS5-2020-569.5	4 20x20x567.5mm Extruded Aluminum 8 20x20x569.5mm Extruded Aluminum	\$3.23 \$3.24	\$12.92 \$25.92	
	20mmx20mm609.5mm aluminum extrusion for vertical supports at the corners. Extrusions requires holes be drilled. 3d model for	<del>-</del> -		
HFS5-2020-609.5 HFS5-2080-569.5	4 drill guide available. 9 20x80x569.5mm aluminum extrusions.	\$3.47 \$11.90	\$13.88 \$107.10	
HHPSN5	6 Hinge for 20x20 Extrusion	\$5.60	\$33.60	
Hinge(McMaster_1598A180) HNTTSN5-5 (bag of 100)	1 Hinge top swing electronics out of the way 2 T-Slot Nuts	\$1.83 \$28.00	\$1.83 \$56.00	
HSCA5-R (2M Lengths) Jamicon_KF0410-01	12 T-SLot Covers (To Hold Clear Panels) 2 40x40mm 24v fan	\$2.38 \$2.95	\$28.56 \$5.90	
Limit Switch Mounting Bracket	Aluminum Limit Switch Mounting Bracket     3/4" MDF Insulator board from local hardware store (Hand	\$2.00	\$2.00	
MDF_Insulator_Board	1 Routed) 24V 450W Power Supply (Lower Watt Version can be used with	\$11.97	\$11.97	
Meanwell_SE-450-24 Micro Switch Button	1 120V bed) 3 NO / NC Limit Switch	\$64.95 \$1.99	\$64.95 \$5.97	
MTSBRW12-480-F10-V8-S26-Q8 MTSRN12	2 12mm Lead Screw 480L (both ends stepped to 8mm) 2 12mm / 2mm pitch lead screw nut	\$51.25 \$25.95	\$102.50 \$51.90	Recommended to use ball screw at (http://goo.gl/HeSLzv) versus lead screw due to cost and speed of z-axis
NEMA_17_5.18_Planetary	2 5.18:1 planetary reduced 40mm Long Nema 17 Stepper Motor	\$30.00	\$60.00	
NEMA_17_60mm_1.5A	3 High Torque 6.5kg/cm 60mm Long Nema 17 Stepper Motor	\$11.80	\$35.40	
Q24169PCDCC	Hoffman Qline Enclosure (233x153x84mm)     Raspberry Pi B+ Print Server (for octoprint / octopi)	\$58.34	\$58.34	
raspberrypi_b+ Rod_End_Knob	2 3D Printed	\$39.99	\$39.99 \$0.00	
SFJ10-512	2 10mm x 512mm hardened precicion rods for x/y overhead gantry	\$15.10	\$30.20	
SFJ10-610	4 10mm x 610mm hardened precicion rods for x/y axis guides	\$20.33	\$81.32	
Smooth_Idler_Pulley kit Timing Belt GT2 Profile - 2mm pitch - 6mm wide	2 GT2 Smooth Idler Pulley	\$4.85	\$9.70	
1164mm long ViKi LCD	1 1164mm Long GT2 (2mm pitch) (6mm wide) (1164mm Long) 1 print controller lcd	\$9.95 \$75.00	\$9.95 \$75.00	
V-Slot_20mmX80mm489.5mm (1000mm cut in 2) Window Glass 420mm X 430mm	1 20mmx80mmx489.5mm Vslot Extrusion 1 Window Glass 420mm X 430mm or Boro Glass	\$10.00 \$5.00	\$10.00 \$5.00	
	ASTM B221-08 6063-T52 Aluminum Architectural Unequal Leg Angle 3-	ψ0.00	ψ5.00	
Z_Gantry_Plate	2 1/2" x 1-1/4" x 1/8"	\$8.88	\$17.76	
		Total	\$1,857.21	

Printed Parts	Qty:
Z_ldler_Slide_Support	2
Z_Leadscrew_Bearing_	
Holder_Base	2
Z_Leadscrew_Bearing_Holder_Top	2
Bed_Glass_Clip	2
Bed_Glass_Clip_Mirror	2
Blower_Duct_1	1
Blower_Duct_1Mirror	1
Bowden_Tube_Nut_Trap	4
Corner_Bearing_Bracket_A	2
Corner_Bearing_Bracket_B	2
Double Carriage_E3DV6	1
Dual_Bowden_Tube_Carriage_Adapter_E3DV6	1
Dual_Fan_Shroud_E3DV6	1
External_Motor	3
Front_Clamp_With_Fan_Mount_E3DV6	1
HercuLien_Extruder_Base_V2	2
HercuStruder_Bearing_Pivot	2
HercuStruder_Dogbone_Connector	2
HercuStruder_Pin	2
Outlet_Switch_And_Network_Mount	1
Power Supply Bracket 1	1
Power Supply Bracket 2	2
Spool_Holder_Flange	2
XY Axis Belt Tensioner A	2
XY Axis Belt Tensioner B	
XY Axis Belt Tensioner Block A	2
XY Axis Belt Tensioner Block B	2
XY_LimitSwitch_Mount_A	4
XY_LimitSwitch_Mount_B	1
50mm_Threaded_Spool_Holder_Full_Round	2