Expected Print Range								
x Direction	(mm)	300						
y Direction	(mm)	200						
z Direction	(mm)	280						

## IMPORTANT

- 1. To customize the size of the hot bed, please fill in the expected printing range.
- 2. The main board only supports 180W hot bed (Include MOS tube if exceed range).
  3. Considering the physical characteristics of thread rod, print range should not exceed 300\*300.

		Asse	embl	y BOM				
AESSEMBLY NAME	ITEM NAME	Dimension	Unit	Material	QUANTITY	Weight	Total weight	Phase
	Linear Motion Rod Shaft (x axis)	408	mm	Aluminum	2			
	X Axis Housing (left)			PLA (40% filling)	1	48.20	48.20	
	X Axis Housing (right)			PLA (40% filling)	1	48.20	48.20	
	Button Head Socket Cap Screw	M5 X 45		·	2			
x axis Assembly	Button Head Socket Cap Screw	M5 x 25			2			
	Idler Pulley	Teeth: 20 Bore: 5 Width: 6			2			
	Idler Pulley	Teethless Bore: 5 Width: 6			2			
	Long Type Linear Bearings	8 x 15 x 45	mm		2			LM8LUU
-	T Slot 2020 Extrusion (x axis)	460	mm	Aluminum	4			European Standard
	T Slot 2020 Extrusion (y axis)	340	mm	Aluminum	4			European Standard
	T Slot 2020 Extrusion (z axis)	390	mm	Aluminum	4			European Standard
	Linear Motion Rod Shaft (y axis)	334	mm	Aluminum	2			European Standard
	Rod Housing Left 01			PLA (40% filling)	1	19.67	19.67	·
	Rod Housing Left 02			PLA (40% filling)	1	10.95	10.95	
	Rod Housing Right 01			PLA (40% filling)	1	20.22	20.22	
	Rod Housing Right 02			PLA (40% filling)	1	10.95	10.95	
	Filament Holder			PLA (40% filling)	1			
	Button Head Socket Cap Screw	M4 X 8			10			
	Button Head Socket Cap Screw	M4 X 22			4			
	Button Head Socket Cap Screw	M5 X 25			2			
	L Shape Flat Bracket	80 X 80 X 1	mm		12			
	Button Head Socket Cap Screw	M6 X 10			8			
y axis Assembly	Button Head Socket Cap Screw	M4 X 6			48			
	Round Rubber Feet Bumpers	20 X 20 X 22	mm		4			
	Button Head Socket Cap Screw	M4 X 16			4			
	2020 Series Corner Bracket			Aluminum	20			
	Button Head Socket Cap Screw	M5 X 10			40			
	Stepper Motor				2			Nema 17
	42 Stepper Motor Mounting Plate	42 X 42	mm	Reliability Aluminum	2			
	Limit Micro Switch	1A 125V			1			SPDT
	Phillips Cross Head Screw	M3 X 8			8			
	GT2 Pulley	Teeth: 20 Bore: 5 Width: 6	mm		2			
	Idler Pulley	Teeth: 20 Bore: 5 Width: 6	mm		4			
	GT2 Timing Pulley Belt	Pitch: 2; Width: 6	mm		2			
	T-slot Nuts	M5			42			
	T-slot Nuts	M4			66			
+	z axis support 02		+	Acrylic Sheet	2			
	z axis support 03		1	Acrylic Sheet	2			
	z axis support 04			PLA (40% filling)	2	3.96	7.92	
	z axis support 05		1	Acrylic Sheet	8			
	Linear Motion Rod Shaft (z axis)	390	mm	,	4			
	T8 Thread rod	350			2			
	Flexible Couplings	5 to 8	mm		2			
z axis Assembly	Phillips Cross Head Screw	M2 X 13			4			
	Limit Micro Switch	1A 125V			2			SPDT

			1			Total weight	334.90	
	T-slot Nuts	M4			16			
	Button Head Socket Cap Screw							
		M4 X 8			16			
	Spiral Cable Wrap Phillips Cross Head Screw	M3 x 8	inm	ľ ĽE	4			
	Spiral Cable Wrap	6	mm	PE	1			
ontrol board Assembly	Stepper Motor Driver	TMC2208			5			
	Power Supply	460W 12V38A			1			
	3D Printer Control Board	Gen L V2.1			1			
	LCD Display Touch Panel	240X320 with PCB 5V/3.3V			1			
	SD Card	2G		PLA (40% filling)	1	24.30	24.3	
	Control board 02			, ,,	'	24.30	24.3	
	Control board 01		1	PLA (40% filling)	1	88.95	88.95	
	riiiips Cross nedd screw	IVIO X Ö			4			
	Phillips Cross Head Screw	42 x 42 M3 x 8	111111	Kelidoliliy Aluminum	4			
	42 Stepper Motor Mounting Plate	42 x 42	mm	Reliability Aluminum	1			Nemu 17
}	Stepper Motor				1			Nema 17
	Extruder Feeder	IVIZ A TO			1			Ender 3 V2
	Phillips Cross Head Screw	M2 X 13			2			
}	Phillips Cross Head Screw	M3 x 10			4			
	Phillips Cross Head Screw	M2.5 X 6			2			
TIOT GITA ASSETTIBLY	Phillips Cross Head Screw	M2.5 X 8		304 31GII IIG33	8			
Hot end Assembly	Square Nut	M3		304 Stainless	6			
}	Limit Micro Switch	1A 125V	111111		1			LIVIOLUU
}	Long Type Linear Bearings	8 x 15 x 45	mm		2			LM8LUU
	Series 4010 Cooling Fan	40 x 40 x 10	mm		2			12V
	Series 3010 Cooling Fan	30 x 30 x 10	mm	1 LA (40/6 IIIII 19)	1	2.17	4.54	12V
}	Cooling Fan Holder			PLA (40% filling)	2	2.17	4.34	Can be Print or Pruchas
	Hot End Holder 02			PLA (40% filling)	1	8.63	8.63	
	Hot End Holder 01			PLA (40% filling)	1	10.29	10.29	
	Hot End Axis Holder			PLA (40% filling)	1	32.28	32.28	
	Hot End Full Kit				1			
	equal of the t			00 1 01 01 11 11 10 10				
	Square Nut	M3		304 Stainless	24			
	Phillips Cross Head Screw	M3 x 13			24			
	Anti-backlash Spring Loaded Nut	Pitch: 2 ; Lead: 8	mm		2			
	Round Flange Linear Ball Bearings	8 x 15 x 45	mm		4			LM8UU
	Button Head Socket Cap Screw	M5 x 12			8			
	Button Head Socket Cap Screw	M5 x 10			4			
nodici bod / ssembiy	Phillips Cross Head Screw	M3 x 40			5			
Heater bed Assembly	Knurled Thumb Nuts	M3			6			
	Compression Mould Die Springs	OD: 8 ; Length: 25			4			
	Compression Spring	0.5 x 5 x 40	mm	Sidililess Sieel	2			
	Flat Bracet	40	mm	Stainless Steel	4			Lilidei 3 V2
	Heated Bed Cover	300 x 200	mm		1			Ender 3 V2
	Glass Bed Upgraded Build Surface Plate	300 x 200 x 3	mm		1			Ender 3 V2
	Heater Bed	300 x 200 x 3	mm	7 (1011)111111111	1			Ender 3 V2
	1020 T-Track	477	mm	Aluminum	2			
	z axis support 01		_	Acrylic Sheet	2			
	Button Head Socket Cap Screw	M4 x 12			16			
	Phillips Cross Head Screw	M3 x 8			8			
	Round Flange Linear Ball Bearings	8 x 15 x 45	mm		4			LM8UU
	Stepper Motor				2			Nema 17

		Purcho	ise B	OM				
ESSEMBLY NAME	ITEM NAME	Dimension	Unit	Material	QUANTITY	Cost/Unit	Estimate Cost	Phase
		408	mm	Aluminum	2	14.99	29.98	x axis
	Linear Motion Rod Shaft	334	mm	Aluminum	2	13.29	26.58	y axis
		390	mm	Aluminum	4	14.99	59.96	z axis
		460	mm	Aluminum	4	7.75	31	x axis
	T Slot 2020 Extrusion	340	mm	Aluminum	4	4.75	19	y axis
		390	mm	Aluminum	4	4.75	19	z axis
Customize Part	1020 T-Track	477	mm	Aluminum	2	14.43	28.86	
Costofflize Fall	3D Printing Part		g	PLA (40% filling)	334.9	0.08	26.792	
	T8 Thread rod	350			2	12	24	
	Acrylic Sheet	297 x 420	mm	Acrylic	1	22.79	22.79	
	Heater Bed	300 x 200 x 3	mm		1	28	28	Ender 3 V2
	Glass Bed Upgraded Build Surface Plate	300 x 200 x 4	mm		1	11.59	11.59	Ender 3 V2
	Heated Bed Cover	300 x 200	mm		1	17.99	17.99	
	Long Type Linear Bearings	8 x 15 x 45			4	3.75	15	LM8LUU
	Round Flange Linear Ball Bearings	8 x 15 x 45			4	6	24	LM8UU
	2020 Series Corner Bracket			Aluminum	20	0.575	11.5	
	L Shape Flat Bracket	80 x 80 x 1	mm		12	0.6	7.2	
	Flat Bracet	40	mm	Stainless Steel	4	0.59	2.37	
	42 Stepper Motor Mounting Plate	42 x 42	mm	Reliability Aluminum	3	2.518	7.554	
	Anti-backlash Spring Loaded Nut	Pitch: 2 ; Lead: 8	mm		2	2.5	5	
	Compression Spring	0.5 x 5 x 40	mm		1	0.9	0.9	
	Compression Mould Die Springs	OD: 8 ; Length: 25	mm		4	0.8	3.2	
	T-slot Nuts	M5			42	0.16	6.72	
	T-slot Nuts	M4			82	0.1	8.2	
	Knurled Thumb Nuts	M3			6	0.7	4.2	
	Square Nut	M3		304 Stainless	30	0.089	2.67	
	Flexible Couplings	5 to 8	mm		2	5	10	
	GT2 Pulley	Teeth: 20 Bore: 5 Width: 6	mm		2	1.596	3.192	
	Idler Pulley	Teeth: 20 Bore: 5 Width: 6	mm		6	1.8	10.8	
	Idler Pulley	Teethless Bore: 5 Width: 6	mm		2	1.8	3.6	
	GT2 Timing Pulley Belt	Pitch: 2; Width: 6	mm		2	3	6	
Hardware	Round Rubber Feet Bumpers	20 X 20 X 22	mm		4	1.75	7	
Haraware		M4 X 6		304 Stainless	48	0.13	6.33	
		M4 X 8		304 Stainless	26	0.13	3.43	
		M4 x 12		304 Stainless	16	0.14	2.23	
		M4 X 16		304 Stainless	4	0.18	0.73	
		M4 X 20		304 Stainless	4	0.22	0.88	
	Button Head Socket Cap Screw	M5 X 10		304 Stainless	44	0.09	3.91	
		M5 x 12		304 Stainless	8	0.09	0.71	
		M5 X 25		304 Stainless	4	0.42	1.69	
		M5 X 45		304 Stainless	2	0.63	1.25	
		M6 X 10		304 Stainless	8	0.26	2.08	
		M2 X 12		304 Stainless	6	0.13	0.76	
		M2.5 X 8		304 Stainless	8	0.09	0.73	
		M3 X 8		304 Stainless	24	0.14	3.36	

						Total Cost	725.28	
	Power Supply	460W 12V38A			1	30	30	
	3D Printer Control Board				1	32.99	32.99	Gen L V2.1
	LCD Display Touch Panel	240X320 with PCB 5V/3.3V	mm		1	16.39	16.39	
	SD Card	2G			1	7	7	
	Spiral Cable Wrap	6	mm	PE	1	11	11	
ectronic component	Hot End Full Kit				1	15	15	
	Extruder Feeder				1	14.98	14.98	Ender 3 V2
	Series 4010 Cooling Fan	40 x 40 x 10	mm		2	5.5	11	12V
	Series 3010 Cooling Fan	30 x 30 x 10	mm		1	7	7	12V
	Limit Micro Switch	1A 125V			5	0.28	1.4	SPDT
	Stepper Motor Driver				5	4	20	TMC2208
	Stepper Motor				5	8	40	Nema 17
		WI3 X 40		504 STAILIIC33	,	0.27	1.00	
		M3 x 40		304 Stainless	7	0.14	1.86	
	Phillips Cross Head Screw	M3 x 10 M3 x 13		304 Stainless 304 Stainless	24	0.14	0.56 3.36	

Hot End BOM										
Part Name	Dimension	Unit	Material	QUANTITY						
V6 HeatSink (Long Distance)	1.75 / 3	mm	All-Metal	1						
V6 Heating Block	20 x 20 x10	mm	Aluminum	1						
Extruder Nozzles	1.75	mm	Brass	1						
High speed Fan Cover (for 3010)				1						
Nozzle Throat	1.75 / 3	mm	Stainless Steel	1						
Tube Fitting	PC4-01			2						
PTFE/teflon tubing	OD: 4; ID: 2	mm		1						
Thermistor Temp Sensor	100K	ohm		2						
Heat resistant & ventilation	12V/40W NTC			1						