

Voron Trident BOM

Bill Of Materials

Category	Component	Qty
Fasteners	M5x40 SHCS	10
	M5x30 BHCS	6
	M5x16 BHCS	42
	M5x10 BHCS	55
	M5 Hexnut	15
	M5 1.0mm Thick Shim/Washer	22
	M5 T-Nut	69
	M4x6 BHCS	7
	M4 Thumb Screws	3
	M3x40 SHCS	6
	M3x30 SHCS	21
	M3x20 SHCS	8
	M3x16 SHCS	16
	M3x12 SHCS	65
	M3x12 FHCS	2
	M3x8 SHCS	131
	M3x6 BHCS	34
	M3x6 FHCS	14
	M3 Washer	2
	M3 Hexnut	2
	M3 Lock Nut	6
	M3 Roll-in T-Nut	74
	M3 Hammerhad T-Nut	65
	M3 Heat Set Inserts (M3x5x4)	52
	M2x10 Self Tapping Screw for Plastics	20
Motion	GT2 Open Belt LL-2GT-6 (6mm wide)	6 meters
	GT2 20T (6mm wide) Pulley (5mm bore)	3
	GT2 20T (6mm wide) Toothed Idler (5mm bore)	2
	F695 Bearing	20
	5x30mm Shaft	1
	GE5C Spherical Bearing	3
	Linear Rail MGN12H for X Axis	1

	Linear Rail MGN9H for Y Axis	2
	Linear Rail MGN9H for Z Axis	3
	Integrated Lead Screw/Stepper Motors - 300mm, 2/4/8mm pitch	3
Extruder	BMG Extruder Kit (used for gears)	1
Vibration Management	Rubber Foot	4
Electronics	Omron Mouse Button - Micro Switch	3
	Omron TL-Q5MC2 - NPN, NC, 5mm Sense	1
	BAT85 Diode	1
	Omron G3NA-210B-DC5 (10A) or Crydom D2425 (25A) or Crydom 84134000 (10A) SSR	1
	SSR DIN Mount	1
	NEMA17 Motor 17HS19-2004S	2
	NEMA17 Motor 17HS08-1004S	1
	Mean Well LRS-200-24 PSU	1
	TBC-09 Terminal Cover (optional, for LRS-200-24)	1
	Meanwell RS-25-5 PSU	1
	ZF - Rocker Switches DPST 16A ON-OFF	1
	Fuse Medium Time Delay Acting 8A 250V Holder Cartridge 5 X 20mm Glass	2
	Fuse Medium Time Delay Acting 4A 250V Holder Cartridge 5 X 20mm Glass	2
	TycoElectronics - 10EGG1-2 (Normal) or 10EHG1-2 (Medical): Filtered Power Inlet	1
	C13 Power Cord	1
	E3D V6 Bowden Hotend Kit (24V)	1
	40x40x10 Axial Fan (24V)	1
	40x40x20 Centrifugal Blower Fan (24V)	1
	60x60x20 Axial Fan (24V)	3
	Thermal Fuse	1
Controller	Raspberry Pi 4 2GB (NOT INCLUDED)	(NOT INCLUDED)
	MicroSD Card	1
	Big Tree Tech Octopus V1.1 Board	1
	TMC 2209 Drivers	6
	mini12864 Display	1
Frame		

	Misumi HFSB5-2020 (Size depends - use configurator)	
	HFSB5-2020-500-LCP-RCP-AV360	4
	HFSB5-2020-370-TPW	9
	HFSB5-2020-370-AH185-TPW	1
	HFSB5-2020-330-LTP	1
	HFSB5-2020-370-AH185	1
	HFSB5-2020-232-LTP	1
	HFSB5-2020-240	1
	HFSB5-2020-330	1
	HFSB5-2020-500-LCP-RCP-AV360	4
	HFSB5-2020-420-TPW	9
	HFSB5-2020-420-AH210-TPW	1
	HFSB5-2020-330-LTP	1
	HFSB5-2020-420-AH210	1
	HFSB5-2020-282-LTP	1
	HFSB5-2020-290	1
	HFSB5-2020-380	1
	HFSB5-2020-500-LCP-RCP-AV360	4
	HFSB5-2020-470-TPW	9
	HFSB5-2020-470-AH235-TPW	1
	HFSB5-2020-330-LTP	1
	HFSB5-2020-470-AH235	1
	HFSB5-2020-332-LTP	1
	HFSB5-2020-340	1
	HFSB5-2020-430	1
Misc	Bowden Tube	
	6mm x 3mm Round Neodymium Magnets	8
	DIN Rail - Electronics Enclosure - Steel - 35mm wide, 7.5mm tall, Steel	2
		2
		2
Cable Chain	10x11mm - 1 meter with 2 end sets (2 fixed end, 2 free end), R18 (18mm radius)	2
Cables	Fork Spade Terminal	
	Insulated Crimp Receptical	
	Nylon Cable Ties 4"	
	MicroFit3 Male Pin (43031-0007)	
	MicroFit3 Female Pin (43030-0007)	
	MicroFit Connector Receptacle 4 Position (43645-0400)	
	MicroFit Connector Receptacle 3 Position (43645-0300)	
	MicroFit Connector Receptacle 2 Position (43645-0200)	

	MicroFit Connector Plug 4 Position (43640-0401)	
	MicroFit Connector Plug 3 Position (43640-0301)	
	MicroFit Connector Plug 2 Position (43640-0201)	
	MLX Power Receptacle 3 Position (50-84-2030)	1
	MLX Power Plug 3 Position (50-84-1030)	1
	MLX Male Pin (02-08-2004)	3
	MLX Female Pin (02-08-1002)	3
	JST-XH Female Pin	40
	JST-XH Connector Plug 4 Position	5
	JST-XH Connector Plug 3 Position	4
	JST-XH Connector Plug 2 Position	4
	Dupont Female Pin	2
	Dupont 2 Pin Connector	1
	24AWG Silicone wire (250ft total)	1
	20AWG Silicone Cable (25ft total)	1
Panels	Deck, Bottom and Back Panels	
	Side/Front/Top Polycarbonate Panels	
Buildplate	Aluminum Build Plate (Size depends - use configurator)	10x10"
		12x12"
		14x14"
	Silicone AC Heater 200x200mm	
	Silicone AC Heater 240x240mm	
	Silicone AC Heater 300x300mm	
	PEI + 3M 468P (200MP)	