Parts list Voron Trident 5-axis

Base

Dusc			<u>_</u>
Aluminium Extrusion 2020	Lenght 410mm	2	
Aluminium Extrusion 2020	Lenght 180mm	2	
90 Degree corners	For Aluminium profile 2020	12	
Screw	M5 x 10mm	24	
Screw	M5 x 20mm	12	
T nuts	M5	36	
Heat insert	M3 x 5mm	2	
Screw SHCS	M3 x 8mm	6	
High precision Bearing	608ZZ	4	
Spacer M8 x 1mm		2	
Spacer M3 x 0.7 mm		4	
Shaft 8mm Left	lenght 57 mm	1	
Shaft 8mm Right	lenght 79 mm	1	
Nema 17 stepper motor	48mm 0.9deg, optimal 2.0Amp	1	
optical switch sensor for 3D printer		1	https://www.amazon .com/MakerHawk- Optical-Endstop- Photoelectric- Control/dp/B07PMW 2QMT/ref=sr 1 1?ke ywords=Optical+Ends top&qid=170015654 4&sr=8-1
Closed loop GT2 belt 6mm	lenght 302 or 303 mm	1	
Pulley GT2	80 tooth 8mm bore	1	
Pulley GT2	16 tooth 5mm bore	1	

Table

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Heat insert	M3 x 5mm	40	
Heat insert	M3 x 7mm	6	
Screw SHCS	M3 x 8mm	52	
Screw SHCS	M3 x 10mm	20	
Screw SHCS	M3 x 12mm	1	
Screw SHCS	M3 x 20mm	6	
Screw FHCS	M3 x 22mm	6	
Spacer M3 x 0.7 mm		7	
NEMA_17_20mm 1.8deg		1	
Pulley GT2	20 tooth 5mm bore	1	
Slip Ring	Dia 22mm 4CH 10A	1	https://www.amazon .com/s?k=slip+ring+4 +wire&crid=2COT7G QJ0ZHZ7&sprefix=sli p+ring+4+wire%2Cap s%2C217&ref=nb_sb_ noss_1
IGUS ring	PRT_04_30 Diameter 90mm	1	https://www.igus.ch/ product/iglidur PRT 04?artnr=PRT-04-30
High precision Bearing	608ZZ	2	
Closed loop GT2 belt 6mm	lenght 330mm	1	
Pololu Hub 8mm	The six M3 holes needs to be drilled with 3.2mm drill	2	
Round Heated bed round for kossel 220mm 24V		1	
Round Magnetic sheet 220mm		1	
Round PEI sheet 220mm	for kossel	1	
Bed spring	ID 3mm OD 6mm Lenght 15mm	6	

Z - axis Hotend with Extruder plus touch screen and blower fan

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Heat insert	M3 x 5mm	27
Heat insert	M2 x 4mm	13
Screw SHCS	M2 x 6mm	17
Screw SHCS	M3 x 8mm	18
Screw SHCS	M3 x 10mm	6
Screw SHCS	M3 x 12mm	6
Screw SHCS	M3 x 14mm	8
Screw SHCS	M3 x 16mm	3
Screw FHCS stainless steel !!!	M3 x 8mm	4
Screw FHCS	M3 x 22mm	2
Screw FHCS	M3 x 6mm	6
Screw BHCS	M5 x 10mm	5
Screw BHCS	M5 x 25mm	3
T nuts	M5	5
Hex nut	мз	4
Spacer M5 x 1mm		1
Spacer M2 x 0.5 mm wide	to fit the mouting hole	4
neodymium magnets	6 x 3 mm	4
Self taping Screw	M2 size for micro switch	2

MGN7 - H Linear Rail	Lenght 200mm	1
NEMA_17_20mm 1.8deg	can be used from the voron kit	1
Small Shaft 5mm	Lenght 45mm	1
Shaft Collar 5mm		1
High precision Bearing	625 ZZ	2
Pulley GT2	20 tooth 5mm bore	2
GT2 belt 6mm	Lenght 500mm	1
Micro switch for 3d printer		1
Nonplanar nozzle	0.4mm	1
24V Ceramic Heating Core	снс	1
Heat Break For 1.75mm Filament M6	for V6 Hotend	1
Chain link 10x11	0.5m	1
PTFE Tube OD 4mm ID 2.5mm	1.0 M then cut it tio required lenght	1
PTFE Tube OD 4mm ID 2.0mm	200mm then cut it tio required length in between hot end and extruder	1
24V Blower Fan 120x120x32mm		1
24V Fan 30x30x10mm		1
Zip ties		100
Indicator Finger Clock for bed		1
and axis calibration	0.01mm sensitivity	

https://www.nonpla nar.xyz/nozzles

https://imprimante-3dservice.com/gb/553trianglelab-chc-v6-24v-115w-ceramic-

heater.html

nstrument)

https://en.wikipedia. https://rdbarrett.co.uk/pr org/wiki/Indicator (d oduct/dial-test-indicatoristance amplifying i horizontal-type-08mm-001mm-mitutoyo-fingerclock/

This parts are only for, if you decide to build **Direct** Drive

version

DM1 OMG V2S Extruder kit with stepper motor and M6 to M10 adapter	with M6 to M10 adapter and stepper motor	1
V6 HeatSink Extruder Radiator 3D Printer	bottom, top 1/8 or M10mm thread	1

rd.com/product-

https://www.omgext https://store.dremc.com.a u/products/omg-v2s-allpage/omgextrd-omg- metal-direct-extruder-

This parts

are only

Z - axis Hotend for, if you with Extruder plus touch screen and

decide to build Bowden **Drive**

blower fan version

PTFE Tube OD 4mm ID 2.0mm	1M then cut it tio required length in between hot end and extruder	1	
V6 pro adapter in between nozzle and heat element CHC	M6 thread	1	https://meltbro.de/v 6-pro-adapter- ersetzt-volcano- hotend-fuer-v6- nozzle-duese-aus- vernickeltem- https://3do.eu/spare- parts/672-v6-pro-adapter- to-increase-super-flow-of- v6-rapidohot-end.html
Phaetus x Voron Dragon Standard Flow or Highflow Hotend		1	https://www.3dmens ionals.de/phaetus-x- /products/phaetus-x- voron-dragon- hotend-st- 2069#attr=9949,995 1,22290 https://www.phaetus.com /products/phaetus-x- voron-hotend-st voron-hotend-st /products/phaetus-x- /products/phaetus-x- voron-hotend-st /products/phaetus-x- voron-hotend-st /products/phaetus-x-

Extruder for 1.75mm filament (for exmple BondTech) mounted at back of the frame of the printer	BMG mounted with bracket on 2020 aluminium profile near to filamnet spool holder		https://www.bondte ch.se/product/bmg- extruder/
Pneumatic Coupler PC4-M10 With Collar	PC4 - M10	1	https://www.whamb amsystems.com/pro ducts/metal-coupler- pc4-m10

Controls

Duet 6HC board		1
Power supply output 24V	350W min.	1
Paneldue touch screen 5"		1
Rj-45 cable, 0.5m	male to female	1
Optional	Raspberry Pi4	1

https://www.duet3d. com/duet3mainboar d6hc

https://docs.duet3d. com/Duet3D hardwa re/Accessories/Panel Due