

## BOM list Voron Trident 5-axis

### Base

Aluminium Extrusion 2020	<i>Lenght 410mm</i>	<b>2</b>	
Aluminium Extrusion 2020	<i>Lenght 180mm</i>	<b>2</b>	
90 Degree corners		<b>12</b>	<a href="https://www.aliexpress.com/item/1005005041926280.html?spm=a2g0o.productlist.main.9.23361a13r634ji&amp;algo_pvid=42147ebe-6a34-4ebb-b1f4-2763a24e1eb3&amp;aem_p4p_detail=20231112040559345404961764560001423074&amp;algo_exp_id=42147ebe-6a34-4ebb-b1f4-2763a24e1eb3-4&amp;pdp_npi=4%40dis%21CHF%211.37%210.67%21%21%211.49%21%21%402101e9ec16997907591065314e1322%2112000033032320638%21sea%21CH%21735132927%21&amp;curPageLogUid=Q8dQHAYB2FAS&amp;search_p4p_id=20231112040559345404961764560001423074_1">https://www.aliexpress.com/item/1005005041926280.html?spm=a2g0o.productlist.main.9.23361a13r634ji&amp;algo_pvid=42147ebe-6a34-4ebb-b1f4-2763a24e1eb3&amp;aem_p4p_detail=20231112040559345404961764560001423074&amp;algo_exp_id=42147ebe-6a34-4ebb-b1f4-2763a24e1eb3-4&amp;pdp_npi=4%40dis%21CHF%211.37%210.67%21%21%211.49%21%21%402101e9ec16997907591065314e1322%2112000033032320638%21sea%21CH%21735132927%21&amp;curPageLogUid=Q8dQHAYB2FAS&amp;search_p4p_id=20231112040559345404961764560001423074_1</a>
Screw	<i>M5 x 10mm</i>	<b>24</b>	
T nuts	<i>M5</i>	<b>36</b>	
Heat insert	<i>M3 x 5mm</i>	<b>2</b>	
Spacer M8 x 1mm		<b>2</b>	
Screw SHCS	<i>M3 x 8mm</i>	<b>6</b>	
High precision Bearing	<i>608ZZ</i>	<b>4</b>	
Shaft 8mm Left	<i>lenght 57 mm</i>	<b>1</b>	
Shaft 8mm Right	<i>lenght 79 mm</i>	<b>1</b>	
Nema 17 stepper motor	<i>48mm 0.9deg, optimal 2.0Amp</i>	<b>1</b>	<a href="https://www.aliexpress.com/item/1005005350589174.html?spm=a2g0o.productlist.main.25.77184b58dcdKP4&amp;algo_pvid=2f7bf235-5330-481e-a22d-d975b414e10c&amp;algo_exp_id=2f7bf235-5330-481e-a22d-d975b414e10c-12&amp;pdp_npi=4%40dis%21CHF%2115.68%2113.01%21%21%21124.15%21%21%402101e64116997906537334093e1e66%2112000032711157241%21sea%21CH%21735132927%21&amp;curPageLogUid=9fsDYFWM9izl">https://www.aliexpress.com/item/1005005350589174.html?spm=a2g0o.productlist.main.25.77184b58dcdKP4&amp;algo_pvid=2f7bf235-5330-481e-a22d-d975b414e10c&amp;algo_exp_id=2f7bf235-5330-481e-a22d-d975b414e10c-12&amp;pdp_npi=4%40dis%21CHF%2115.68%2113.01%21%21%21124.15%21%21%402101e64116997906537334093e1e66%2112000032711157241%21sea%21CH%21735132927%21&amp;curPageLogUid=9fsDYFWM9izl</a>
Screw	<i>M5 x 20mm</i>	<b>12</b>	
Spacer M3 x 0.7 mm		<b>4</b>	
LERDGE optical switch sensor		<b>1</b>	<a href="https://www.aliexpress.com/item/32817734162.html?spm=a2g0o.productlist.main.1.4c5b1ba1laVN1i&amp;algo_pvid=c0c17954-106e-474a-a2f5-d442811315a0&amp;algo_exp_id=c0c17954-106e-474a-a2f5-d442811315a0-0&amp;pdp_npi=4%40dis%21CHF%210.82%210.73%21%21%210.89%21%21%402101f00016997910658701007e3792%2112000028690721620%21sea%21CH%21735132927%21&amp;curPageLogUid=pQ9QS9eFWRtb">https://www.aliexpress.com/item/32817734162.html?spm=a2g0o.productlist.main.1.4c5b1ba1laVN1i&amp;algo_pvid=c0c17954-106e-474a-a2f5-d442811315a0&amp;algo_exp_id=c0c17954-106e-474a-a2f5-d442811315a0-0&amp;pdp_npi=4%40dis%21CHF%210.82%210.73%21%21%210.89%21%21%402101f00016997910658701007e3792%2112000028690721620%21sea%21CH%21735132927%21&amp;curPageLogUid=pQ9QS9eFWRtb</a>

Closed loop GT2 belt 6mm	302 tooth	1	<a href="https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=l2tE4h1ot5ye">https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=l2tE4h1ot5ye</a>
Pulley GT2	80 tooth 8mm bore	1	<a href="https://www.aliexpress.com/item/1005004075014163.html?spm=a2g0o.productlist.main.1.54f71037wcnTcl&amp;algo_pvid=e0b76b2c-cda6-42d7-b894-b086dfd760c8&amp;algo_exp_id=e0b76b2c-cda6-42d7-b894-b086dfd760c8-0&amp;pdp_npi=4%40dis%21CHF%214.04%213.64%21%21%2132.00%21%21%402101c5c316997908720298036e7a43%2112000027957606445%21sea%21CH%21735132927%21&amp;curPageLogUid=e1AQ0yLjD8vf">https://www.aliexpress.com/item/1005004075014163.html?spm=a2g0o.productlist.main.1.54f71037wcnTcl&amp;algo_pvid=e0b76b2c-cda6-42d7-b894-b086dfd760c8&amp;algo_exp_id=e0b76b2c-cda6-42d7-b894-b086dfd760c8-0&amp;pdp_npi=4%40dis%21CHF%214.04%213.64%21%21%2132.00%21%21%402101c5c316997908720298036e7a43%2112000027957606445%21sea%21CH%21735132927%21&amp;curPageLogUid=e1AQ0yLjD8vf</a>
Pulley GT2	16 tooth 5mm bore	1	<a href="https://www.aliexpress.com/item/1005004537265916.html?spm=a2g0o.productlist.main.3.646017a9S50YT3&amp;algo_pvid=224ab45d-7ae2-4014-a145-d68c0e993063&amp;algo_exp_id=224ab45d-7ae2-4014-a145-d68c0e993063-1&amp;pdp_npi=4%40dis%21CHF%211.06%210.95%21%21%218.41%21%21%402101e58316997908403876995e344d%2112000029518799001%21sea%21CH%21735132927%21&amp;curPageLogUid=A0NE3VKOAMbt">https://www.aliexpress.com/item/1005004537265916.html?spm=a2g0o.productlist.main.3.646017a9S50YT3&amp;algo_pvid=224ab45d-7ae2-4014-a145-d68c0e993063&amp;algo_exp_id=224ab45d-7ae2-4014-a145-d68c0e993063-1&amp;pdp_npi=4%40dis%21CHF%211.06%210.95%21%21%218.41%21%21%402101e58316997908403876995e344d%2112000029518799001%21sea%21CH%21735132927%21&amp;curPageLogUid=A0NE3VKOAMbt</a>

## Table

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_PHB42S20-410-TB		1	<a href="https://www.aliexpress.com/item/1005006007526124.html?spm=a2g0o.productlist.main.21.1f5c1f88fEXuJb&amp;algo_pvid=27c9b3eb-aa9f-4af8-a9d4-e782453bb939&amp;algo_exp_id=27c9b3eb-aa9f-4af8-a9d4-e782453bb939-10&amp;pdp_npi=4%40dis%21CHF%2118.22%2112.58%21%21%2119.79%21%21%402101f00016997911238513944e379e%2112000035295204856%21sea%21CH%21735132927%21&amp;curPageLogUid=PfL6IsO81mZN">https://www.aliexpress.com/item/1005006007526124.html?spm=a2g0o.productlist.main.21.1f5c1f88fEXuJb&amp;algo_pvid=27c9b3eb-aa9f-4af8-a9d4-e782453bb939&amp;algo_exp_id=27c9b3eb-aa9f-4af8-a9d4-e782453bb939-10&amp;pdp_npi=4%40dis%21CHF%2118.22%2112.58%21%21%2119.79%21%21%402101f00016997911238513944e379e%2112000035295204856%21sea%21CH%21735132927%21&amp;curPageLogUid=PfL6IsO81mZN</a>
Pulley GT2	20 tooth 5mm bore	1	<a href="https://www.aliexpress.com/item/32844125364.html?spm=a2g0o.productlist.main.1.5ca914d2DUCr7H&amp;algo_pvid=2a62fb9c-60c1-47ea-ae7f-b89764f74101&amp;algo_exp_id=2a62fb9c-60c1-47ea-ae7f-b89764f74101-0&amp;pdp_npi=4%40dis%21CHF%211.23%211.07%21%21%211.34%21%21%402101e9ec16997918585118552e1319%2165181145698%21sea%21CH%21735132927%21&amp;curPageLogUid=ChgdXuyYCTaE">https://www.aliexpress.com/item/32844125364.html?spm=a2g0o.productlist.main.1.5ca914d2DUCr7H&amp;algo_pvid=2a62fb9c-60c1-47ea-ae7f-b89764f74101&amp;algo_exp_id=2a62fb9c-60c1-47ea-ae7f-b89764f74101-0&amp;pdp_npi=4%40dis%21CHF%211.23%211.07%21%21%211.34%21%21%402101e9ec16997918585118552e1319%2165181145698%21sea%21CH%21735132927%21&amp;curPageLogUid=ChgdXuyYCTaE</a>

Electrical device	<i>Dia 22mm 4CH 10A</i>	1	<a href="https://www.aliexpress.com/item/1005006067140458.html?spm=a2g0o.productlist.main.7.5bad12eam6VALa&amp;algo_pvid=4dda64f1-9a73-4f3f-a54b-51734460d4ac&amp;algo_exp_id=4dda64f1-9a73-4f3f-a54b-51734460d4ac-3&amp;pdp_npi=4%40dis%21CHF%216.13%213.07%21%21%2148.51%21%21%402103244b16997914753182839e3c52%2112000035577206286%21sea%21CH%21735132927%21&amp;curPageLogUid=xtO06HNVmoh3">https://www.aliexpress.com/item/1005006067140458.html?spm=a2g0o.productlist.main.7.5bad12eam6VALa&amp;algo_pvid=4dda64f1-9a73-4f3f-a54b-51734460d4ac&amp;algo_exp_id=4dda64f1-9a73-4f3f-a54b-51734460d4ac-3&amp;pdp_npi=4%40dis%21CHF%216.13%213.07%21%21%2148.51%21%21%402103244b16997914753182839e3c52%2112000035577206286%21sea%21CH%21735132927%21&amp;curPageLogUid=xtO06HNVmoh3</a>
IGUS ring	<i>PRT_04_30 Diameter 90mm</i>	1	<a href="https://www.igus.ch/product/iglidur_PRT_04?artnr=PRT-04-30">https://www.igus.ch/product/iglidur_PRT_04?artnr=PRT-04-30</a>
High precision Bearing	<i>608ZZ</i>	2	
Closed loop GT2 belt 6mm	<i>330 tooth</i>	1	<a href="https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa&amp;algo_exp_id=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=l2tE4h1ot5ye">https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa&amp;algo_exp_id=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=l2tE4h1ot5ye</a>
Pololu Hub 8mm	<i>The six M3 holes needs to be drilled with 3.2mm drill</i>	2	<a href="https://www.pololu.com/product/2693">https://www.pololu.com/product/2693</a>
Heated bed round for kossel 220mm 24V		1	<a href="https://www.aliexpress.com/item/1005004111763784.html?spm=a2g0o.productlist.main.5.61cc71eeiPTXsw&amp;algo_pvid=f2a1edf2-b7d2-4a65-baff-11cd45ff3be0&amp;algo_exp_id=f2a1edf2-b7d2-4a65-baff-11cd45ff3be0-2&amp;pdp_npi=4%40dis%21CHF%2125.40%2111.68%21%21%2127.59%21%21%402101e7f616997923374816893eeeb%2112000028068992144%21sea%21CH%21735132927%21&amp;curPageLogUid=3x70qrJkPclw">https://www.aliexpress.com/item/1005004111763784.html?spm=a2g0o.productlist.main.5.61cc71eeiPTXsw&amp;algo_pvid=f2a1edf2-b7d2-4a65-baff-11cd45ff3be0&amp;algo_exp_id=f2a1edf2-b7d2-4a65-baff-11cd45ff3be0-2&amp;pdp_npi=4%40dis%21CHF%2125.40%2111.68%21%21%2127.59%21%21%402101e7f616997923374816893eeeb%2112000028068992144%21sea%21CH%21735132927%21&amp;curPageLogUid=3x70qrJkPclw</a>
Magnetic sheet 220mm		1	<a href="https://www.aliexpress.com/item/1005004171681662.html?spm=a2g0o.productlist.main.23.873219674jlpG8&amp;algo_pvid=7e60e54d-9b85-4069-890c-2d4934fb27c7&amp;algo_exp_id=7e60e54d-9b85-4069-890c-2d4934fb27c7-11&amp;pdp_npi=4%40dis%21CHF%2121.65%2116.24%21%21%2123.51%21%21%402101c59116997921979897180e1aa5%2112000028271470260%21sea%21CH%21735132927%21&amp;curPageLogUid=G9oeWhKQmn0U">https://www.aliexpress.com/item/1005004171681662.html?spm=a2g0o.productlist.main.23.873219674jlpG8&amp;algo_pvid=7e60e54d-9b85-4069-890c-2d4934fb27c7&amp;algo_exp_id=7e60e54d-9b85-4069-890c-2d4934fb27c7-11&amp;pdp_npi=4%40dis%21CHF%2121.65%2116.24%21%21%2123.51%21%21%402101c59116997921979897180e1aa5%2112000028271470260%21sea%21CH%21735132927%21&amp;curPageLogUid=G9oeWhKQmn0U</a>

PEI sheet 220mm		1	<a href="https://www.aliexpress.com/item/1005004171681662.html?spm=a2g0o.productlist.main.23.873219674jlpG8&amp;algo_pvid=7e60e54d-9b85-4069-890c-2d4934fb27c7&amp;algo_exp_id=7e60e54d-9b85-4069-890c-2d4934fb27c7-11&amp;pdp_npi=4%40dis%21CHF%2121.65%2116.24%21%21%2123.51%21%21%402101c59116997921979897180e1aa5%2112000028271470260%21sea%21CH%21735132927%21&amp;curPageLogUid=G9oeWhkQmn0U">https://www.aliexpress.com/item/1005004171681662.html?spm=a2g0o.productlist.main.23.873219674jlpG8&amp;algo_pvid=7e60e54d-9b85-4069-890c-2d4934fb27c7&amp;algo_exp_id=7e60e54d-9b85-4069-890c-2d4934fb27c7-11&amp;pdp_npi=4%40dis%21CHF%2121.65%2116.24%21%21%2123.51%21%21%402101c59116997921979897180e1aa5%2112000028271470260%21sea%21CH%21735132927%21&amp;curPageLogUid=G9oeWhkQmn0U</a>
Bed spring		6	<a href="https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa&amp;algo_exp_id=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=I2tE4h1ot5ye">https://www.aliexpress.com/item/1005003420210494.html?spm=a2g0o.productlist.main.1.3e8a51e8wDWssQ&amp;algo_pvid=d564e113-82c0-4212-97dd-da20aaaf9daa&amp;algo_exp_id=d564e113-82c0-4212-97dd-da20aaaf9daa-0&amp;pdp_npi=4%40dis%21CHF%212.72%211.58%21%21%212.95%21%21%402101ea8c16997904969303819e0471%2112000025708013984%21sea%21CH%21735132927%21&amp;curPageLogUid=I2tE4h1ot5ye</a>

## Z - axis Hotend

Heat insert