

Project Valkyrie - Stage-I NB! WORK IN PROGRESS - STAGE I Release Candidate

Develompment Team Members Mark Bridgewater - NZ Chris Lombardi - US Roy Berntsen - NO

Hardware Hardware Hardware Hardware Hotionparts Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware Hardware Hardware	7-Slot 2020 7-Slot 2020 7-Slot 2020 7-Slot 2040 7-Slot 2040 7-Slot 2040 8-Racket	Price exl VAT Description Z 2020 Rear Center X 2020 Rear Top X 2040	BOM Quantity F	\$ 7.26	Pack Order Quantity	\$ 1,940 Line Price \$	Order Parts Link	Option Color: 359 mm
Hardware Hardware Hardware Hardware Hotionparts Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware Hardware Hardware	T-Slot 2020 T-Slot 2040 T-Slot 2040 T-Slot 2040	X 2020 Rear Top X 2040	1 :			\$ 8.00		Color: 359 mm
Hardware Hardware Hardware Hotionparts Motionparts Hotionparts Hardware Hardware Hardware Hardware Hardware Hardware Hardware	T-Slot 2040 T-Slot 2040 T-Slot 2040	X 2040		ė 0.F0				
Hardware Hardware Hardware Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware Hardware	T-Slot 2040 T-Slot 2040			\$ 9.50	1 5	\$ 9.50		Color: 420 mm
Hardware Hardware Motionparts Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware	T-Slot 2040		4 :	-	4 \$			Color: 420 mm
Hardware Motionparts Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware		Y 2040	4 :		4 \$			<u>Color: 480 mm</u>
Motionparts Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware Hardware	Bracket	Z 2040	4 :		4 \$			<u>Color: 750 mm</u>
Motionparts Motionparts Hardware Hardware Hardware Hardware Hardware Hardware		2028 L Bracket	42 :		5 \$			5x Color: 10pcs 2028
Motionparts I Hardware Hardware Hardware Hardware Hardware Hardware	Linear Rails	MGN 12h - Z Axis	3 :		3 \$			3xGL: 350 - C: MGN12 H
Hardware Hardware Hardware Hardware Hardware Hardware	Linear Rails	MGN 12h - Y Axis	2 :		2 5			2xGL: 400 - C: MGN12 F
Hardware Hardware Hardware Hardware	Linear Rails	MGN 9h - X Axis	1 :		1 5			1xGL: 400 - C: MGN9 F
Hardware Hardware Hardware	Frame Bundle	2040 Frame Kit - Budget	1 :			5 -	Budget Frame + Rail Bundle Kit	
Hardware Hardware	Frame Bundle	2040 Frame Kit - Misumi Premium	1 :		1 5		Premium Frame + Rail Bundle	
Hardware	Tube	20x20x18 Carbon Tube	1 1225		1 S 1225 S		20X20X18MM 500MM	
	Plate Print Surface	Cast Aluminum 350x350x8mm	1225		1225		1225 cm^2	
naruware	Rod	Removal Spring Steel PEI Sheet 5x25mm Rod For Tension Forks	5 :		1 5		<u>Size: 330x330mm</u> 1x Length: 25mm 8PC	
Hardware	Rod	5x40mm Rod For AB Idlers	12 :		3 5		3x Length: 40mm 5PC	
	Rod	5x50mm Rod For Ball Joint	6 :		2 5			
	Ball Joint	Precision Ball 10mm M4	3 :		1 5		2x Length: 50mm 4PC 1x Size: 10pc	
	Magnet	Neodium Magnet	3 :		2 5		2x 30x10x5mm-2pcs	
	Bearings	625 2ZZ	6 :		1 5		10pcs 625ZZ 5x16x5mm	
	Nut	M3 Nut	21 :		1 5		1x Size: M3 50PCS	
	Nut	M3 Nut Hammer Nut	34		1 5		1x 50PCS Size: 20-m3	
	Screw	M3x08 BH	24		1 5		1x Size: M3 50PCS - 8mm - 304 SS	
	Screw	M3x08 SH	34		1 5		1x Size: M3 50PCS - 8mm - 304 SS	
	Screw	M3x10 BH	33 :		1 5		1x Size: M3 50PCS - 8fffff - 304 SS	
	Screw	M3x16 BH	8 :		1 5		1x Size: M3 50PCS - 16mm - 304 SS	
	Screw	M4 D5 L55 Shoulder Screw	3 :		3 5		3x Size: M4-D5mm	
	Nut	M4 Nut	6 :		1 5		Size: M4-D5Hilli	
	Nut	M4 Nut Lock Nut	3 :		1 5		Size: M4 50PCS - Color SS	
	Washer	M4 WASHER	3 :		1 5		1x M4 50pcs	
	Screw	M4x16 CS	3 :		1 5		1x Size: M4 20PCS - 16mm - 304 SS	
	Screw	M4x20 CS	3 :		1 5		1x Size: M4 20PCS - 20mm - 304 SS	
	Nut	M5 Nut	4 :		1 5		1x Size: M4 20FC3 - 20HHF - 304 33	
	Nut	M5 Nut Hammer Nut	30	-	1 5		1x M5 100 PCS	
	Nut	M5 Nut Locknut	5 :		1 5		1x M5 50 PCS - SS	
	Nut	M5 Nut T-Nut	84		1 5		1x M5 100PCS	
	Washer	M5 WASHER	89		2 5		2x M5 50PCS	
	Screw	M5x10 BH	111		12 5		12x 10PCS Size: M5 - 10mm - SS	
	Screw	M5x20 BH	7 :		1 5		1x 10PCS Size: M5 - 20mm - SS	
	Bolt	M5x30 HEX	5 :		1 5		1x 10 PCS Size: M5 - 30mm	
	Shim	M5x6.5x1 Precision Shim	33		1 5		1x 200PCS Size: 6.5x5x1mm	
	Washer	Cup Washer for Outer Panels		\$ 8.00	1 5		1x 20PCS cup head washer	
	Washer	M3 WASHER		\$ 0.74	1 5		1x: M3 50pcs	
	Controller Board	Big Dipper D3 Mini	1		1 5		1x Big Dipper	Octopus+TMC2209x8
	PSU	Power Supply Unit	1		1 5		24V10A 240W	
	Switch	Power Switch	1		1 5		1x Power switch	
	Heater	Keenovo 750W Silicone Heating Pad	1 :		1 5		1x Select Color: 220V/110V	1x 220V/110V
	Switch	Solid State Relay	3		3 5		Genuine Omron Solid State Relay	Size: SSR 25D/
	Probe	Z Probe - Bl Touch Type	1		1 5		3D Touch	
	Accelerometer	LIS3DSH Accelerometer	1 :		1 5		1x LIS3DSH Accelerometer	1x ADXL345 for Klippe
	Fuse	Thermal Fuse for Silicone Heating Pad	1 :		1 5		250V 15A 135 deg Fuse	
	Hotend	Dragon AC Hotend	1 :		1 5		Color: Dragon-Standard flow	
	Extruder	Bontech LGX Lite	1 :		1 5		LGX® Lite + LDO NEMA 14	
	Belt	Timing Belt 2GT 9mm 135C	8 :		1 5		1x 8M Heat Resistant - 9mm	
Motionparts I	Idler	Idlers Smooth 11mm	10 :		10 \$		10x W 11mm without t	
	Idler	Idlers Toothed 11mm	5 :		5 \$		5x W 11mm with t	
	Pulley	Pulley 11mm 2GT	5 :		5 \$		5x For 9mm	
	Gear	2GT 20T-80T 4:1 Belt Gear	3 :		3 9		3x 20T(5mm)-80T(5mm)-200mm	
	Steppermotor	42mm NEMA 17 1.7A	5 :		5 \$		1x 5Pcs 40mm 45N-cm 2A	
Insulation	Insulation	PIR - Polyisocyanurate	5 :	\$ 12.00	5 \$	\$ 60.00	<u>TBD</u>	
Panel	Panels	Aluminum Composite Material	5 :	\$ 25.00	5 \$	\$ 125.00	TBD	
Panel	Window Front	Polycarbonate Sheet	1 :	\$ 25.00	2 \$	\$ 50.00	Specification: 350x350x3mm	
Insulation	Bed Insulation	3D Printer Heat insulation	1 :	\$ 10.00	1 5	\$ 10.00	Size: 350x350mm	
Hardware I	Bearings	Draw Slides	2 :	\$ 24.00	1 5	\$ 24.00	Color: Buffer 16inch 40cm	
Fasteners	Screw	M3x12 Countersink Screw	5 :	\$ 2.28	1 \$	\$ 2.28	1x Size: M3 50PCS - 12mm - SS	
	Screw	M3x35 BH Screw	3 :		1 \$		1x Size: M3 50 PCS - 35mm - SS	
Fasteners	Nut	M3 Nylock Nuts	11 :	\$ 0.49	1 \$		1x Size: M3 50PCS - SS	
Fasteners	Screw	M3x08 BH	3 :		1 5		1x Size M3 50PCS - 8mm - SS	
	Bearings	608 Bearings	3 :		1 \$		1x Size: ABEC-1 ZZ	
	Screw	M5 Shoulder x40 Screw (M4 thread)	1 :		1 \$		1x 5xM4x40 pack 10	
	Collar	M5 Retaining Collar (6mm tall)	1 :		1 5		GDZS-D5-10-6	
	Sensor	5KG Load Cell and HX711 ADC	1 :		1 5		Color: 5KG With HX711	
	Controller Board	Arduino Nano	1 :		1 5		1x Arduino Nano	
	Screw	M4 x14 Countersink Screws	1 :		1 5		1x Size: M4 20PCS - 14mm - SS	
	Screw	M4x20 Countersink Screws	2 :		1 5		1x Size M4 20PCS - 20mm - SS	
	Bushing	5x8x2.5M Bushings	2 :		1 \$		1x Bushings 5x8x2.5	
	Spring	Tension Spring	1 :		1 \$		1x Length 15mm - Wire 0.7 - OD 8	
	Bearings	5x10x4mm Thrust Bearing	1 :		1 \$		1x Thrust Bearing	
	Spacer	M3x15 Spacers	3 :		1 \$		1x Size 3x15 - Red	
	Spacer	M3x30 FF Standoff	4 :		1 \$		<u>1x Size: M3 - 30mm</u>	
	Spacer	M3x30 FM Standoff	4 :		1 5		1x Size: 5PCS M3XL M-F	
	Screw	M4x14 Cap Head Screw	12		1 5		M4 x 14 Soc HD 20pcs	
	Screw	M3x10 BH	8 :		1 \$		1x Size: M3 50PCS - 10mm - SS	
	Fan	6038 Fan 2B06038B12G	1 :		1 \$		1x Size: NEW	
	Heater	PTC Heater 12x7cm 260C	1 :		1 5		PTC Heater with Cord (US or EU)	
	Fuse	Thermal Fuse 95C	1 :		1 \$		<u>1x 15A - 95C</u>	
	Magnet	Round Strong Magnets With Hole	3 :		1 \$		1x Color: 8x3-3mm-20pcs	
	Sensor	dht22	1 :		1 \$		RepRap ONLY- 1x Humidity Sensor	Klipper Humid Senso
	Screw	M2.5x6 Cap Head Screw (dh22 only)	1 :		1 \$		RRF ONLY - 1x Size M2.5 - 6mm - SS	
	Desiccant	Silica Gel	1 :	\$ 21.50	1 5		1x 500g Orange Desiicant	
Drying Agent	Budget A Bundle Price	Price exl VAT				\$ 1,682		