

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

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

Valkyrie	3d Printer - Budget	Price ext VAT					•	\$ 1,695	Roy Berntsen - NO	
Valkyrie Category	3d Printer - Premium Part Type	Price exl VAT Description	Cut Length	Total	BOM Quantity Pa	rk Prica Š	Pack Order	\$ 1,953 Line Price \$	Order Parts Link	Option
Hardware	T-Slot 2020	Z 2020 Rear Center	mm 359	mm 359	1 \$	7.26	Quantity 1 5		Order Farts Link	Color: 359 mm
Hardware	T-Slot 2020	X 2020 Rear Top	420	420	1 \$	9.50	1 \$			Color: 420 mm
Hardware	T-Slot 2040	X 2040	420	1680	4 \$	10.54	4 \$			Color: 420 mm
Hardware Hardware	T-Slot 2040 T-Slot 2040	Y 2040 Z 2040	480 750	1920 3000	4 \$ 4 \$	11.12 14.70	4 \$			Color: 480 mm Color: 750 mm
Hardware	Bracket	2028 L Bracket	,50	3000	42 \$	5.00	5 \$			5x Color: 10pcs 2028
Motionparts	Linear Rails	MGN 12h - Z Axis	350		3 \$	15.60	3 \$			3xGL: 350 - C: MGN12 H
Motionparts Motionparts	Linear Rails Linear Rails	MGN 12h - Y Axis MGN 9h - X Axis	400 400		2 \$ 1 \$	17.50 16.00	2 \$			2xGL: 400 - C: MGN12 H 1xGL: 400 - C: MGN9 H
Hardware	Frame Bundle	2040 Frame Kit - Budget			1 \$		\$		Budget Frame + Rail Bundle Kit	
Hardware	Frame Bundle	2040 Frame Kit - Misumi Premium	440	500	1 \$		1 5		Premium Frame + Rail Bundle	
Hardware Hardware	Tube Plate	20x20x18 Carbon Tube Cast Aluminum 350x350x8mm	410 350	500	1 \$ 1225 \$	20.00	1 \$ 1225 \$		20X20X18MM 500MM 1225 cm^2	
Hardware	Print Surface	Removal Spring Steel PEI Sheet	330		1 \$		1 \$		1x Size: (130C)330x330mm	WB 150C-Mag Sheet
Hardware	Rod	5x25mm Rod For Tension Forks	25		5 \$	1.20	1 \$		1x Length: 25mm 8PC	
Hardware Hardware	Rod Rod	5x40mm Rod For AB Idlers 5x50mm Rod For Ball Joint	40 50		12 \$ 6 \$	3.00	3 \$		3x Length: 40mm 5PC 2x Length: 50mm 4PC	
Hardware	Ball Joint	Precision Ball 10mm M4			3 \$	3.00	1 \$	3.00	<u>1x Size: 10pc</u>	
Hardware	Magnet	Neodium Magnet	30		3 \$	2.50	2 \$		2x 30x10x5mm-2pcs	
Hardware Fasteners	Bearings Nut	625 2ZZ M3 Nut			6 \$ 21 \$	7.50 1.00	1 \$		10pcs 625ZZ 5x16x5mm 1x Size: M3 50PCS	
Fasteners	Nut	M3 Nut Hammer Nut			34 \$	3.00	1 \$	3.00	1x 50PCS Size: 20-m3	
Fasteners	Screw	M3x08 BH M3x08 SH			24 \$	1.00	1 \$		1x Size: M3 50PCS - 8mm - 304 SS	
Fasteners Fasteners	Screw Screw	M3x10 BH			34 \$ 33 \$	1.00	1 \$		<u>1x Size: M3 50PCS - 8mm - 304 SS</u> <u>1x Size: M3 50PCS - 10mm - 304 SS</u>	
Fasteners	Screw	M3x16 BH			8 \$	2.00	1 \$		1x Size: M3 50PCS - 16mm - 304 SS	
Fasteners	Screw	M4 D5 L55 Shoulder Screw			3 \$	4.00	3 \$		3x Size: M4-D5mm	
Fasteners Fasteners	Nut Nut	M4 Nut Lock Nut			6 \$ 3 \$	1.50 1.50	1 \$		Size: M4 50PCS Size: M4 50PCS - Color SS	
Fasteners	Washer	M4 WASHER			3 \$	1.00	1 \$		1x M4 50pcs	
Fasteners	Screw	M4x16 CS			3 \$	2.00	1 \$		1x Size: M4 20PCS - 16mm - 304 SS	
Fasteners Fasteners	Screw Nut	M4x20 CS M5 Nut			3 \$ 4 \$	2.00	1 \$		1x Size: M4 20PCS - 20mm - 304 SS 1x Size: M5 50PCS	
Fasteners	Nut	M5 Nut Hammer Nut			30 \$	11.00	1 \$		1x M5 100 PCS	
Fasteners	Nut	M5 Nut Locknut			5 \$	2.81	1 \$		1x M5 50 PCS - SS	
Fasteners Fasteners	Nut Washer	M5 Nut T-Nut M5 WASHER			84 \$ 89 \$	13.50 1.28	1 \$		1x M5 100PCS 2x M5 50PCS	
Fasteners	Screw	M5x10 BH			111 \$	2.69	12 \$		12x 10PCS Size: M5 - 10mm - SS	
Fasteners	Screw	M5x20 BH			7 \$	8.00	1 \$		1x 10PCS Size: M5 - 20mm - SS	
Fasteners Fasteners	Bolt Shim	M5x30 HEX M5x6.5x1 Precision Shim			5 \$ 33 \$	2.57 16.00	1 \$		1x 10 PCS Size: M5 - 30mm 1x 200PCS Size: 6.5x5x1mm	
Fasteners	Washer	Cup Washer for Outer Panels			\$	8.00	1 \$		1x 20PCS cup head washer	
Fasteners	Washer	M3 WASHER			\$	0.74	1 \$		1x: M3 50pcs	
Electronics Electronics	Controller Board PSU	Big Dipper D3 Mini Power Supply Unit			1 \$ 1 \$	71.00 23.00	1 \$		1x Big Dipper 24V10A 240W	Octopus+TMC2209x8
Electronics	Switch	Power Switch			1 \$	7.50	1 \$		1x Power switch	
Electronics	Heater	Keenovo 750W Silicone Heating Pad	300		1 \$	78.39	1 \$		1x Select Color: 220V/110V	1x 220V/110V
Electronics Electronics	Switch Probe	Solid State Relay Z Probe - Bl Touch Type			3 \$ 1 \$	26.00	3 \$		Genuine Omron Solid State Relay 3D Touch	Size: SSR 25DA
Electronics	Accelerometer	LIS3DSH Accelerometer			1 \$	2.00	1 \$		1x LIS3DSH Accelerometer	1x ADXL345 for Klipper
Electronics	Fuse	Thermal Fuse for Silicone Heating Pad			1 \$	3.00	1 \$		250V 15A 135 deg Fuse	
Extruder Extruder	Hotend Thermistor	Dragon AC Hotend PT1000 Thermistor Up to 450C			1 \$ 1 \$	73.50 13.50	1 \$		Color: Dragon-Standard flow 1x PT1000 Thermistor Cartridge	
Extruder	Extruder	Bontech LGX Lite			1 \$	70.00	1 \$		LGX® Lite + LDO NEMA 14	
Motionparts	Belt	Timing Belt 2GT 9mm 135C	1000	8000	8 \$	59.00	1 \$		1x 8M Heat Resistant - 9mm	
Motionparts Motionparts	Idler Idler	Idlers Smooth 11mm Idlers Toothed 11mm			10 \$ 5 \$	4.10 6.00	10 \$ 5 \$		10x W 11mm without t 5x W 11mm with t	
Motionparts	Pulley	Pulley 11mm 2GT			5 \$		5 \$		5x For 9mm	
Motionparts	Gear	2GT 20T-80T 4:1 Belt Gear	200	600	3 \$	16.00	3 \$		3x 20T(5mm)-80T(5mm)-200mm	
Motionparts Insulation	Steppermotor Insulation	42mm NEMA 17 1.7A PIR - Polyisocyanurate			5 \$ 5 \$		5 \$ 5 \$		1x 5Pcs 40mm 45N-cm 2A TBD	
Panel	Panels	Aluminum Composite Material			5 \$		5 \$		TBD	
Panel	Window Front	Polycarbonate Sheet	300		1 \$	25.00	2 \$		Specification: 350x350x3mm	
Insulation Hardware	Bed Insulation Bearings	3D Printer Heat insulation Draw Slides	350 400		1 \$ 2 \$		1 \$		Size: 350x350mm Color: Buffer 16inch 40cm	
Fasteners	Screw	M3x12 Countersink Screw	400		5 \$		1 \$		1x Size: M3 50PCS - 12mm - SS	
Fasteners	Screw	M3x35 BH Screw			3 \$	4.51	1 \$		1x Size: M3 50 PCS - 35mm - SS	
Fasteners Fasteners	Nut Screw	M3 Nylock Nuts M3x08 BH			11 \$ 3 \$		1 \$		<u>1x Size: M3 50PCS - SS</u> 1x Size M3 50PCS - 8mm - SS	
Fasteners	Bearings	608 Bearings			3 \$		1 \$		1x Size: ABEC-1 ZZ	
Fasteners	Screw	M5 Shoulder x40 Screw (M4 thread)			1 \$		1 \$		1x 5xM4x40 pack 10	
Fasteners Electronics	Collar Sensor	M5 Retaining Collar (6mm tall) 5KG Load Cell and HX711 ADC			1 \$ 1 \$	3.62 3.00	1 \$		GDZS-D5-10-6 Color: 5KG With HX711	
Fasteners	Controller Board	Arduino Nano			1 \$		1 \$		1x Arduino Nano	
Fasteners	Screw	M4 x14 Countersink Screws			1 \$	2.00	1 \$	2.00	1x Size: M4 20PCS - 14mm - SS	
Fasteners Fasteners	Screw Bushing	M4x20 Countersink Screws 5x8x2.5M Bushings			2 \$ 2 \$	2.50 4.31	1 \$		1x Size M4 20PCS - 20mm - SS 1x Bushings 5x8x2.5	
Fasteners	Spring	Tension Spring			1 \$		1 \$		1x Length 15mm - Wire 0.7 - OD 8	
Fasteners	Bearings	5x10x4mm Thrust Bearing			1 \$	2.44	1 \$	2.44	1x Thrust Bearing	
Fasteners	Spacer	M3x15 Spacers			3 \$	2.38 3.27	1 \$		1x Size 3x15 - Red	
Fasteners Fasteners	Spacer Spacer	M3x30 FF Standoff M3x30 FM Standoff			4 \$ 4 \$		1 \$		1x Size: M3 - 30mm 1x Size: 5PCS M3XL M-F	
Fasteners	Screw	M4x14 Cap Head Screw			12 \$	2.75	1 \$	2.75	M4 x 14 Soc HD 20pcs	
Fasteners	Screw	M3x10 BH			8 \$		1 \$		1x Size: M3 50PCS - 10mm - SS	
Electronics Electronics	Fan Heater	6038 Fan 2B06038B12G PTC Heater 12x7cm 260C			1 \$ 1 \$	12.00 12.00	1 \$		1x Size: NEW PTC Heater with Cord (US or EU)	
Electronics	Fuse	Thermal Fuse 95C			1 \$	3.96	1 \$	3.96	1x 15A - 95C	
Electronics	Magnet	Round Strong Magnets With Hole			3 \$		1 \$		1x Color: 8x3-3mm-20pcs	Winesthan
Electronics Fasteners	Sensor Screw	dht22 M2.5x6 Cap Head Screw (dh22 only)			1 \$ 1 \$	4.00 0.87	1 \$		RepRap ONLY- 1x Humidity Sensor RRF ONLY - 1x Size M2.5 - 6mm - SS	Klipper Humid Sensor
Drying Agent	Desiccant	Silica Gel			1 \$		1 \$		1x 500g Orange Desiicant	
Valkyrie	Budget A Bundle Price	Price exl VAT						\$ 1,695		
Valkyrie	Premium Budle Price	Price exl VAT						\$ 1,953	l	