



Project Valkyrie - Stage-0-BOM

Development Team Members

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| Valkyrie | | 3d Printer | Price exl VAT | | \$ 1,557 | | | | | |
|-----------|-------------|------------------|--|---------------|--------------|---------------|---------------------|---------------|--|---------------|
| System | Category | Part Type | Description | Cut Length mm | BOM Quantity | Pack Price \$ | Pack Order Quantity | Line Price \$ | Order Parts Link | Supplier |
| Frame | Hardware | T-Slot 2020 | Z 2020 Rear Center | 339 | 1 | \$ 8.62 | 1 | \$ 8.00 | Color: 339 mm | VenstPow |
| Frame | Hardware | T-Slot 2020 | X 2020 Rear Top | 420 | 1 | \$ 9.50 | 1 | \$ 9.50 | Color: 420 mm | VenstPow |
| Frame | Hardware | T-Slot 2040 | X 2040 | 420 | 4 | \$ 10.54 | 4 | \$ 42.16 | Color: 420 mm | VenstPow |
| Frame | Hardware | T-Slot 2040 | Y 2040 | 480 | 4 | \$ 11.12 | 4 | \$ 44.48 | Color: 480 mm | VenstPow |
| Frame | Hardware | T-Slot 2040 | Z 2040 | 750 | 4 | \$ 14.70 | 4 | \$ 58.80 | Color: 750 mm | VenstPow |
| Frame | Hardware | Bracket | 2028 L Bracket | | 42 | \$ 5.00 | 5 | \$ 25.00 | 5x Color: 10pcs 2028 | VenstPow |
| Frame | Hardware | Bracket | Corner Plate 90deg | | 4 | \$ 10.00 | 4 | \$ 40.00 | 1x 5pcs 2020 5 holes | VenstPow |
| Kinematic | Motionparts | Linear Rails | MGN 12h-Z Axis. Light PL | 350 | 3 | \$ 40.00 | 3 | \$ 120.00 | 3xMGN 12H/350mm. Light PL | CNA MS |
| Kinematic | Motionparts | Linear Rails | MGN 12h-Y Axis. Medium PL | 400 | 2 | \$ 36.00 | 2 | \$ 72.00 | 2xMGN12H/400mm. Medium PL | CNA MS |
| Kinematic | Motionparts | Linear Rails | MGN 9h-Z Axis. Medium PL | 400 | 1 | \$ 34.00 | 1 | \$ 34.00 | 1xMGN9H/400mm. Medium PL | CNA MS |
| Frame | Hardware | Frame Bundle | Frame Parts price exclusive Hardware | | | | | \$454 | | |
| Frame | Hardware | Frame Bundle | Pick one of the kits below or order from above | | | | | | | Partners |
| Frame | Hardware | Frame Bundle | Misumi Frame & Rails & Hardware | | 1 | \$ 720.00 | | \$ - | Complete Premium Kit | MakerSupplies |
| Frame | Hardware | Frame Bundle | V-Slot Frame & Rails & Hardware | | 1 | \$ 577.00 | | \$ - | Complete V-Slot Kit | MakerSupplies |
| Frame | Hardware | Tube | 20x20x18 Aluminum X-Axis Tube | 410 | 1 | \$ 8.00 | 1 | \$ 8.00 | 1x 20X20X1.5mm 500mm | TRPZNZ |
| Bed | Hardware | Plate | Cast Aluminum 350x350x8mm | 350 | 1225 | \$ 0.08 | 1225 | \$ 104.00 | 1225 cm^2 | MakerSupplies |
| Bed | Hardware | Print Surface | Removal Spring Steel PEI Sheet | 330 | 1 | \$ 46.00 | 1 | \$ 46.00 | 1x Size: (130C)330x330mm | Energetic |
| Bed | Hardware | Rod | 5x50mm Rod For Ball Joint | | 6 | \$ 3.00 | 2 | \$ 6.00 | 2x Length: 50mm 4PC | WanFang |
| Bed | Hardware | Ball Joint | Precision Ball 10mm M4 | | 3 | \$ 3.00 | 1 | \$ 3.00 | 1x Size: 10pc | KingRoom |
| AC/DC | Electronics | Controller Board | Duet 3 6HC | | 1 | \$ 145.00 | 1 | \$ 145.00 | 1x Duet 3 6HC | Fysetc |
| AC/DC | Electronics | PSU | Power Supply Unit | | 1 | \$ 23.00 | 1 | \$ 23.00 | 24V10A 240W | Vusum |
| AC/DC | Electronics | Switch | Power Switch | | 1 | \$ 7.50 | 1 | \$ 7.50 | 1x Power switch | TriangleLab |
| AC/DC | Electronics | Heater | Keenovo 750W Silicone Heater | 300 | 1 | \$ 78.39 | 1 | \$ 78.39 | 1x Color: 220V/110V | Keenovo |
| AC/DC | Electronics | Switch | Solid State Relay | | 1 | \$ 26.00 | 1 | \$ 26.00 | Omron Solid State Relay | Mellow |
| AC/DC | Electronics | Fuse | Thermal Fuse for AC Heater | | 1 | \$ 3.00 | 1 | \$ 3.00 | 1x Temperature: 150/180 degree | Weidly |
| ToolHead | Electronics | Accelerometer | LIS3DSH Accelerometer | | 1 | \$ 2.00 | 1 | \$ 2.00 | 1x LIS3DSH Accelerometer | RQG |
| ToolHead | Extruder | Hotend | Dragon Hotend HF | | 1 | \$ 82.00 | 1 | \$ 82.00 | 1x Dragon HF | Dilan |
| ToolHead | Extruder | Thermistor | PT1000 Thermistor Up to 450C | | 1 | \$ 13.50 | 1 | \$ 13.50 | 1x PT1000 Thermistor Cartridge | TriangleLab |
| ToolHead | Extruder | Extruder | BIQU H2 V2X | | 1 | \$ 45.00 | 1 | \$ 45.00 | BIQU H2 V2X | BTT |
| ToolHead | Extruder | Tube | PTFE Teflon Tube | | 1 | \$ 3.75 | 1 | \$ 3.75 | 1x Size: 1M ID 2MM OD 3MM | Mellow |
| Kinematic | Hardware | Rod | 5x25mm Rod For Tension Forks | | 5 | \$ 1.20 | 1 | \$ 1.20 | 1x Length: 25mm 8PC | WanFang |
| Kinematic | Hardware | Rod | 5x40mm Rod For AB Idlers | | 12 | \$ 3.00 | 3 | \$ 9.00 | 3x Length: 40mm 5PC | WanFang |
| Kinematic | Motionparts | Belt | Timing Belt 2GT 9mm 135C | | 8 | \$ 59.00 | 1 | \$ 59.00 | 1x 8M Heat Resistant - 9mm | TriangleLab |
| Kinematic | Motionparts | Idler | Idlers Smooth 11mm | | 10 | \$ 4.10 | 10 | \$ 41.00 | 10x W 11mm without t | Mellow |
| Kinematic | Motionparts | Idler | Idlers Toothed 11mm | | 5 | \$ 6.00 | 5 | \$ 30.00 | 5x W 11mm with t | Mellow |
| Kinematic | Motionparts | Pulley | Pulley 11mm 2GT | | 5 | \$ 4.00 | 5 | \$ 20.00 | 5x For 9mm | Mellow |
| Kinematic | Motionparts | Gear | 2GT 20T-80T 4:1 Belt Gear | 200 | 3 | \$ 16.00 | 3 | \$ 48.00 | 3x 20T(5mm)-80T(5mm)-200mm | Powge |
| Kinematic | Motionparts | Steppermotor | 42mm NEMA 17 1.7A | | 5 | \$ 14.50 | 5 | \$ 72.50 | 1x 5Pcs 40mm 45N-cm 2A | StepperOnline |
| | Fasteners | Various | See Fastener sheet | | | | 1 | \$ 226 | | |
| Valkyrie | | Bundle Price | Price exl VAT | | \$ 1,557 | | | | | |