VALKYRIE PRECISION CUSTOM ARMORY

CLIENT QUOTATION
2026-11-02
ID QUOTE-VPCA-2026-0842

Unit 14, Tech Park Industrial Estate, Stuttgart, Germany | +49 711 890

4420 | service@valkyrie-armory.example

Prepared by tuner: Marcus Vance (Lead Master Armorer)

I. Client & Work-Order Quotation Summary

Prepared For Client: alex.lindqvist@nordic-milsim.example | **Work-Order Proposal:** WO-2026-1102 (Pre-Build Estimate)
Target Replica Architecture: Extended-Bore Long-Range Precision DMR (V2.5 Gearbox) | **Target Field Role:** 75m Outdoor Precision DMR (0.40g BB @ 3.99J)
Scope of Quoted Work: Complete internal drivetrain overhaul, CNC 19-tooth steel rack piston with AOE spacer correction, 32:1 torque gearset micrometer shimming, lapped stainless tightbore barrel & hop-up air-seal modification, and full ultrasonic bench assembly.

II. Itemized Parts Quotation, Custom Tuner Labor & Total Estimate

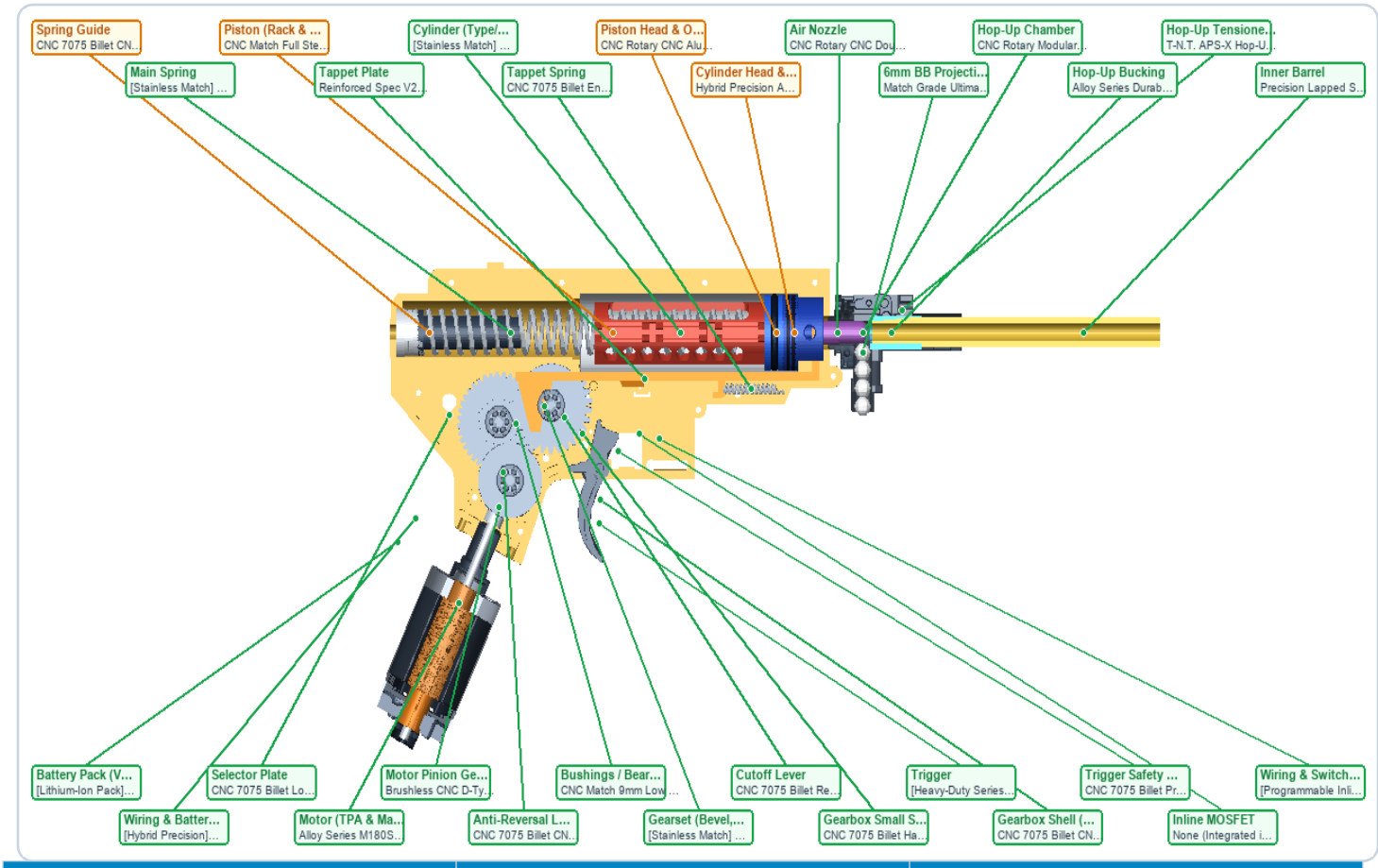
Slot Category	Installed Component	Brand	Price (USD)	Direct Link
Main Spring	Heavy-Duty Series SP140 Extended V2.5 DMR Long Non-Linear Spring	Stainless Match	$11.69	https://www.powair6.com/en/hpa-systems
Spring Guide	CNC 7075 Billet CNC Stainless Steel Bearing Spring Guide V2.5	CNC 7075 Billet	$22.00	https://ehobbyasia.com/products/amoeba-ares-stainless-steel-spring-guide-for-compact-power-spring-bolt
Piston (Rack & Body)	CNC Match Full Steel 19-Teeth Extended Piston for Extended V2.5 DMR	CNC Match	$16.00	https://www.airsoftgi.com/product/Solink-CNC-Machined-Lightened-Aluminum-AEG-Piston-w-14-Stainless-Steel-Piston-Teeth-Half-Teeth-70186/
Tappet Plate	Reinforced Spec V2 Reinforced Tappet Plate	Reinforced Spec	$9.00	https://www.wgcshop.com/products/arcturus-v2-reinforced-tappet-plate
Cylinder (Type/Port)	Extended V2.5 DMR V2.5 Extended Full Non-Ported Cylinder (85.0mm)	Stainless Match	$22.00	https://www.powair6.com/en/aeg-cylinder/12846-shs-stainless-steel-slick-cylinder-for-l85-V2.5 Extended-Bore.html
Piston Head & O-Ring	CNC Rotary CNC Aluminum Double O-Ring Ball Bearing AEG Piston Head	CNC Rotary	$18.00	https://www.powair6.com/en/hpa-systems
Air Nozzle	CNC Rotary CNC Double O-Ring Air Seal Nozzle V2.5 Extended V2.5 DMR (24.20mm)	CNC Rotary	$14.00	https://www.powair6.com/en/hpa-systems
Cylinder Head & Pad	Hybrid Precision Aluminum Cylinder Head for Marui Ver.2 Full-Length Replica V2/Carbine V2/Compact SMG/G3 AEG Replica	Hybrid Precision	$7.49	https://www.powair6.com/en/hpa-systems

Slot Category	Installed Component	Brand	Price (USD)	Direct Link
Gearbox Shell (Chassis)	CNC 7075 Billet CNC 7075-T6 V2.5 Long Extended Gearbox Shell (Extended V2.5 DMR)	CNC 7075 Billet	$169.00	https://www.powair6.com/en/hpa-systems
Gearset (Bevel, Spur & Sector)	32:1 EG Super Torque-Up Gearset (Half-Teeth)	Stainless Match	$78.00	https://www.powair6.com/en/hpa-systems
Motor (TPA & Magnet)	Alloy Series M180S Satan AEG Motor (Long)	Alloy Series	$110.00	https://ehobbyasia.com/products/g-p-m180s-satan-aeg-motor-long
Battery Pack (Voltage & C-Rating)	11.1V 3000mAh 16C Optical ETU Lithium-Ion Nunchuck	Lithium-Ion Pack	$42.00	https://www.powair6.com/en/hpa-systems
Bushings / Bearings	CNC Match 9mm Low Profile Ball Bearings (Set of 6)	CNC Match	$11.00	https://ehobbyasia.com/products/shs-9mm-steel-ball-bearing-bushing
Wiring & Switch Assembly	Leviathan V2 Optical Pro Drop-In ETU	Programmable Inline ETU	$130.00	https://ehobbyasia.com/products/modify-switch-assembly-for-version2-gearbox
Wiring & Battery Connector	High-Current T-Plug T-Plug Connector Set	Hybrid Precision	$5.00	https://www.redwolfairsoft.com/tokyo-marui-standard-tamiya-connector.html
6mm BB Projectile	Match Grade Ultimate Heavy 0.45g Extreme Bolt-Action 6mm BB (1000rds)	Match Grade	$21.50	https://www.wgcshop.com/search?type=product&q=BLS+0.40g+BB
Inner Barrel	Precision Lapped Stainless Tightbore 6.03mm Tight Bore Inner Barrel (509mm)	Precision Lapped	$36.80	https://www.powair6.com/en/hpa-systems
Hop-Up Chamber	CNC Rotary Modular Tactical HPA Hop Up Chamber M4W (CNC Aluminum)	CNC Rotary	$9.99	https://www.airsoftgi.com/product/Lancer-Tactical-Kinetic-TDC-Hop-Up-Unit-for-M4-M16-AR15-AEG-74135/
Hop-Up Bucking	Alloy Series Durable Hop Up Rubber For AEG	Alloy Series	$2.68	https://ehobbyasia.com/products/4uantum-friction-pro-aeg-hop-up-bucking
Hop-Up Tensioner / Nub	T-N.T. APS-X Hop-Up NUB Series	T-N.T.	$3.32	https://www.powair6.com/en/hpa-systems
Trigger	Compact SMG Classic Steel Trigger (V2)	Heavy-Duty Series	$12.00	https://www.redwolfairsoft.com/tokyo-marui-m4-trigger-v2.html
Tappet Spring	CNC 7075 Billet Enhanced High-Tension Tappet Return Spring	CNC 7075 Billet	$5.00	https://www.aliexpress.com/wholesale?SearchText=SHS%20Enhanced%20Steel%20Tappet%20Return%20Spring%20%28Pack%20of%203%29
Motor Pinion Gear	Brushless CNC D-Type CNC Hardened Chromoly Pinion Gear	Brushless CNC	$15.00	https://ehobbyasia.com/products/modify-motor-pinion-gear-for-top-m60-m249
Inline MOSFET	None (Integrated in ETU)	Integrated	$0.00	https://www.redwolfairsoft.com/catalogsearch/result/?q=Tokyo%20Marui%20Next-Gen%20/%20Standard%20Inline%20Micro%20FET%20Trigger%20Unit%20%28V2%29

Slot Category	Installed Component	Brand	Price (USD)	Direct Link
Anti-Reversal Latch (ARL)	CNC 7075 Billet CNC Heat-Treated Steel Anti-Reversal Latch	CNC 7075 Billet	$14.00	https://www.redwolfairsoft.com/tokyo-marui-anti-reversal-latch.html
Cutoff Lever	CNC 7075 Billet Reinforced Steel V2.5 Cutoff Lever	CNC 7075 Billet	$12.00	https://www.redwolfairsoft.com/tokyo-marui-v2-cutoff-lever.html
Selector Plate	CNC 7075 Billet Low-Friction POM V2.5 Selector Plate	CNC 7075 Billet	$14.00	https://ehobbyasia.com/products/krytac-cnc-ambi-selector-switch-assembly-selector-for-krytac-aeg-m4-m16-aeg-anodized-blue
Trigger Safety Block (V2)	CNC 7075 Billet Precision POM Trigger Safety Block (V2)	CNC 7075 Billet	$6.50	https://www.redwolfairsoft.com/tokyo-marui-v2-trigger-safety-block.html
Gearbox Small Springs Set	CNC 7075 Billet Hardened Music-Wire Gearbox Springs Kit	CNC 7075 Billet	$9.00	https://www.wgcshop.com/products/guarder-gearbox-spring-set-v2
		MATERIALS SUBTOTAL	$826.97	

Category / Slot	Component / Scope	Custom Work & Lump-Sum Service	Labor	Price (USD)
Piston & Piston Head	CNC Match Full Steel 19-Teeth Piston	AOE Correction Spacer + Rack Bonding	25 min	$22.50
Gearset	32:1 Super Torque-Up CNC Steel Gearset	Precision Micrometer Bevel-to-Pinion Shimming	45 min	$40.50
Inner Barrel & Hop-Up	Precision Lapped Stainless Tightbore Barrel	Contact Patch Lapping & Air Seal Mod	40 min	$36.00
Complete Gearbox Bench	V2.5 Extended-Bore Gearbox Assembly	Full Disassembly, Ultrasonic Clean, Regrease & 75m Chrono Verification	60 min	$54.00
			SERVICES SUBTOTAL	$153.00
			SHOP TAX / VAT (7.25%)	$71.05
			GRAND TOTAL	$1,051.02

III. Proposed Internal Component Map & Custom Work Scope



Slot	Installed Component	Custom Works Applied
Main Spring	[Stainless Match] Heavy-Duty Series SP140 Extended V2.5 DMR Long Non-Linear Spring	Standard Factory / None
Spring Guide	CNC 7075 Billet CNC Stainless Steel Bearing Spring Guide V2.5	Installed 5.0mm Ring Spacer on Spring Guide for spring pre-compression
Piston (Rack & Body)	CNC Match Full Steel 19-Teeth Extended Piston for Extended V2.5 DMR	Tuner 2nd/3rd tooth shaving, half-width rack milling
Piston Head & O-Ring	CNC Rotary CNC Aluminum Double O-Ring Ball Bearing AEG Piston Head	Ring spacer to correct AOE (length: 3.0mm, weight: 1.5g) installed between piston head and piston body
Cylinder (Type/Port)	[Stainless Match] Extended V2.5 DMR V2.5 Extended Full Non-Ported Cylinder (85.0mm)	Standard Factory / None
Cylinder Head & Pad	Hybrid Precision Aluminum Cylinder Head for Marui Ver.2 Full-Length Replica V2/Carbine V2/Compact SMG/G3 AEG Replica	Tuner Sorbo pad (3.2mm)
Air Nozzle	CNC Rotary CNC Double O-Ring Air Seal Nozzle V2.5 Extended V2.5 DMR (24.20mm)	Standard Factory / None
Tappet Plate	Reinforced Spec V2 Reinforced Tappet Plate	Standard Factory / None
Tappet Spring	CNC 7075 Billet Enhanced High-Tension Tappet Return Spring	Standard Factory / None
Gearset (Bevel, Spur & Sector)	[Stainless Match] 32:1 EG Super Torque-Up Gearset (Half-Teeth)	Standard Factory / None

Slot	Installed Component	Custom Works Applied
Motor Pinion Gear	Brushless CNC D-Type CNC Hardened Chromoly Pinion Gear	Standard Factory / None
Bushings / Bearings	CNC Match 9mm Low Profile Ball Bearings (Set of 6)	Standard Factory / None
Motor (TPA & Magnet)	Alloy Series M180S Satan AEG Motor (Long)	Standard Factory / None
Battery Pack (Voltage & C-Rating)	[Lithium-Ion Pack] 11.1V 3000mAh 16C Optical ETU Lithium-Ion Nunchuck	Standard Factory / None
Inline MOSFET	None (Integrated in ETU)	Standard Factory / None
Wiring & Switch Assembly	[Programmable Inline ETU] Leviathan V2 Optical Pro Drop-In ETU	Standard Factory / None
Wiring & Battery Connector	[Hybrid Precision] High-Current T-Plug T-Plug Connector Set	Standard Factory / None
Inner Barrel	Precision Lapped Stainless Tightbore 6.03mm Tight Bore Inner Barrel (509mm)	Standard Factory / None
Hop-Up Chamber	CNC Rotary Modular Tactical HPA Hop Up Chamber M4W (CNC Aluminum)	Standard Factory / None
Hop-Up Bucking	Alloy Series Durable Hop Up Rubber For AEG	Standard Factory / None
Hop-Up Tensioner / Nub	T-N.T. APS-X Hop-Up NUB Series	Standard Factory / None
6mm BB Projectile	Match Grade Ultimate Heavy 0.45g Extreme Bolt-Action 6mm BB (1000rds)	Standard Factory / None
Gearbox Shell (Chassis)	CNC 7075 Billet CNC 7075-T6 V2.5 Long Extended Gearbox Shell (Extended V2.5 DMR)	Standard Factory / None
Trigger	[Heavy-Duty Series] Compact SMG Classic Steel Trigger (V2)	Standard Factory / None
Anti-Reversal Latch (ARL)	CNC 7075 Billet CNC Heat-Treated Steel Anti-Reversal Latch	Standard Factory / None
Cutoff Lever	CNC 7075 Billet Reinforced Steel V2.5 Cutoff Lever	Standard Factory / None
Selector Plate	CNC 7075 Billet Low-Friction POM V2.5 Selector Plate	Standard Factory / None
Trigger Safety Block (V2)	CNC 7075 Billet Precision POM Trigger Safety Block (V2)	Standard Factory / None
Gearbox Small Springs Set	CNC 7075 Billet Hardened Music-Wire Gearbox Springs Kit	Standard Factory / None

IV. Projected Pre-Build Performance Estimate (Simulated Target)

Target Engineering Parameter	Projected Simulated Output	Design Specification Remark
Muzzle Velocity (@ 0.40g)	501.7 FPS (152.9 m/s)	Theoretical Baseline
Muzzle Kinetic Energy	4.68 J	Field Energy Class
Max Joule Creep (@ 0.48g)	4.77 J (+18.0%)	Volumetric C:B 3.12:1
Cyclic Rate of Fire (RoF)	11.7 RPS (701 RPM)	Full-Auto Cadence
Semi-Auto Trigger Lock Time	42.8 ms	Single-Shot Lock Time
Noise Level (dB)	99.7 dBA	Acoustic Signature
Peak Current (A)	55.9 A (Run: 12.3 A)	Motor Inrush / Load
Cylinder-to-Barrel Ratio (C:B)	3.12:1	Pneumatic Volume Balance

Target Engineering Parameter	Projected Simulated Output	Design Specification Remark
Premature Engagement (PME) Margin	82.0 %	Safe Clearance
Peak Cylinder Pressure	16.51 bar	Polytropic Compression Peak
Estimated Build Lifetime (MTBF)	37.3K Shots	Limiting: Gearbox Shell (Front C

V. Quotation Validity, Deposit Terms & Warranty Coverage

1. QUOTATION VALIDITY & PRICE GUARANTEE: This pre-build quotation is valid for 30 calendar days from the issue date. All listed aftermarket component prices and custom tuner labor rates are guaranteed upon work-order approval.
2. DEPOSIT & BENCH LEAD TIME: A 50% parts deposit initiates component procurement and bench scheduling. Estimated workshop turnaround is 5 to 7 business days including custom machining, shimming, and 75m range calibration.
3. POST-BUILD HANDOVER & WARRANTY: Upon build completion and final chronograph verification, the client receives the signed As-Built Custom Report, tamper-evident Ed25519 QR authenticity seal, and 180-Day Master Craftsmanship Warranty.