



# 2019 CATALOGUE

Airsoft Guns and Upgrade Parts  
Taiwan-based Manufacturer

# About Us



2001  
Started producing custom parts for airsoft guns.

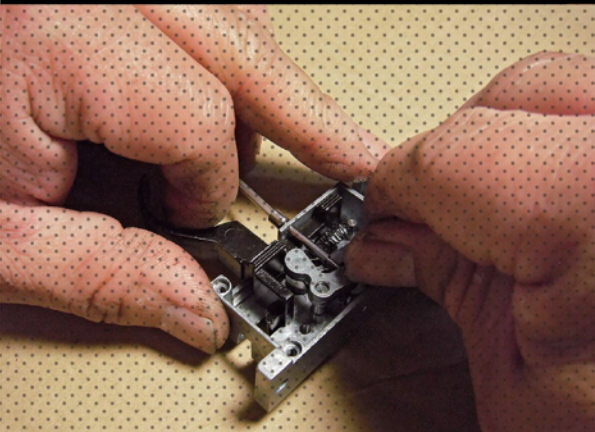


2006  
Established the Modify brand for upgrade parts for airsoft guns.

2007

Launched the first Modular Gear Set in the market that shorted the time to install a gearbox from half an hour to sub-1 minute.

## The right gun makes a player a sharpshooter



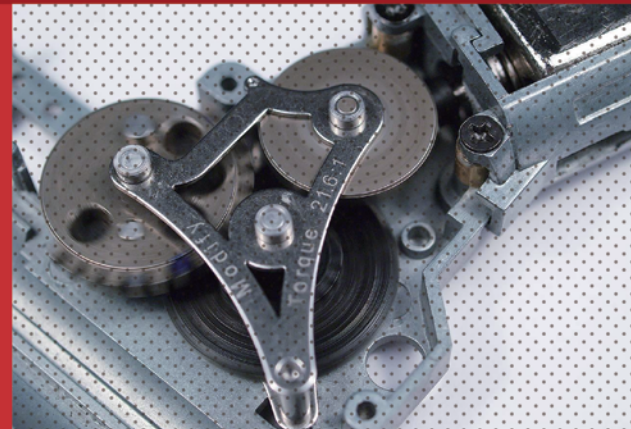
### WATCH PARTS MAKER WOWS AIRSOFT GUN INDUSTRY

Some 60 years ago Mr. Sun, a tinkerer, made the first watch hand in Taiwan to be labeled a pioneer in his days. With the technology passed through the third generation, Modify uses watchmaking expertise to develop high-end airsoft guns and parts to have started its era as the top-gun in the field.

### MAKER KNOWN FOR BOUTIQUE-GRADE PARTS

Obsessed with making precision parts and able to turn sketch on paper into metallic products, we're obsessed, detail-minded technicians who demand at least stable quality.

Modify adopts watchmaking know-how to design airsoft guns and upgraded parts, which have become precision must-haves among players.



### WIDELY REPUTED NO. 1

Known for expertise, Modify embodies the technician to turnout airsoft guns and parts that are user-friendly with high firing accuracy to impress many players and gunsmiths. A leading Japanese gunsmith, after trying the Modify XTC-G1 AEG, could not stop praising the gun and offered to be promoter for free. And a renowned, foreign airsoft sniper, after analyzing the MOD24 bolt-action rifle, was totally awe-struck by its design to have become a loyal user.

### Specialist media praise Modify's hottest airsoft guns

Overseas media: Taiwan's watch-parts maker builds realistic, accurate airsoft guns ! Modify's enterprising spirit achieves awesome success. Modular Gear Set revolutionizes installation time for AEG upgrade. MOD24 Sniper Rifle with pioneering LED magazine has steady BB trajectory for super accuracy. XTC launches 45-degree quick-throw Ambi-Safety selector for instant setting and slick operation.

With watchmaking the ultimate form of mechanical engineering, Modify crossed over from watch-parts making to airsoft guns to have become an enviable upstart in airsoft games. As a seasoned technician, Modify continues to help build Taiwan into an airsoft capital, while standing behind the made-in-Taiwan quality guarantee.

2008

Introduced the Quantum Gear Set to double AEG rate of fire from 15 RPS to 30-plus rounds with a standard motor and 8.4v battery.

2010

Successfully showcased the 3-Jaw Universal Vise at the Africa Aerospace & Defense Expo.

2015

Successfully showcased the XTC-G1 at the IWA OutdoorClassics Nuremberg.

2009

The first in Taiwan to introduce a patented recoil system Tremors for AEGs.

2013

Introduced the industry's first upgrades MOD24 airsoft sniper rifle.

## OEM/ODM SERVICE



Own  
Factory

Support  
from Design

Experts  
On-site

Low  
Cost

We make parts from your 2D drawings or 3D models by CNC machining, molding, casting, plastic/metal injection, magnesium/zinc/aluminum forging, powder metallurgy and 3D printing.

### A FULLY TRUSTWORTHY PARTNER

We know exactly what you demand, which is parts made right the first time, delivered on-time at reasonable price. Always keeping your interest at heart, we suggest ways to lower cost. Modify stands behind its word to always offer excellent value as the best service.



### EXPERTISE WITH GUARANTEED QUALITY

Modify continues to improve its production capability to satisfy customer needs. Besides offering toy parts, watch parts, precision mechanical parts and tools, photoelectric & fiber optics part etc., we provide free advice. Able to offer samples as requested, we are backed by experienced engineers to speed new product development.



Extreme Consistency and Accuracy

# MOD24

Bolt Action Air Rifle

For those who can accept nothing less than perfection, there is no other choice. The Modify-Tech Airsoft Sniper Rifle MOD24 is built for shot-to-shot consistency and reliability of accuracy.



## Upgraded Heart

Tough steel cylinder and enhanced metal internal parts for strength

## Enlarged Bolt Handle and Reinforcement.



## Removable 1913 Picatinny Top Rail

Raised, extended top rail for mounting sighting systems

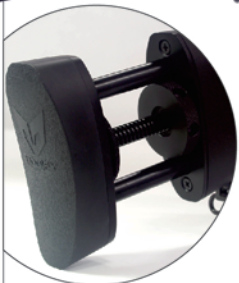


## Wider Textured Adjustable Steel Trigger

It's trigger pull adjustable and trigger travel adjustable



## Enlarged Trigger Guard



## Ergonomic Pad Design

## MOD24 Upgrade Parts

- ☉ Barrel Spacer for MOD24
- ☉ MOD24 Barrel Extension Adapter
- ☉ CNC machined Aluminum Pressure Plate
- ☉ Ultra Light Piston for MOD24/APS-2 Series
- ☉ Reinforced Spring Guide Stopper for MOD24
- ☉ 6.03mm Precision Inner Barrel 485 mm for MOD24 Series
- ☉ Stainless Spring Guide w/ Bearing for APS-2 Series (9mm)
- ☉ Irregular-Pitch Spring for MOD24/ APS-2 - S110+/ S150+/ S170+





**Newly-Designed Adjustable Accurate Hop Up System**

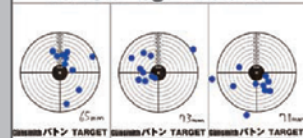


**Extremely Straight 6.08mm Precision Inner Barrel**

## 20M accuracy tested in Japan

MOD24 集弾性テスト(20m)

**MODIFY MOD24 accuracy test  
20m / 0.25g BB 10 shot**



トリガーワークシューティングレンジで20mの距離を10発撃った時の集弾性は、65mm / 73mm / 71mm の結果を記録。使用BB弾は、BATON airsoft バイオBB弾0.25g.

## Exactly Built Outer Barrel

It fits the receiver perfectly



## Illuminated Magazine for Tracer BBs with Modular LED

# SPECIFICATIONS



Model	<b>MOD24</b>	<b>MOD24 USR150</b>	<b>MOD24-X Bull Barrel</b>	<b>MOD24 SF</b>
Major Color	BLK/ O.D./ TAN	BLK/ O.D./ TAN	BLK/ O.D./ TAN	BLK/ O.D./ TAN
Inner Barrel Caliber	6.08 mm	6.03 mm	6.03 mm	6.03 mm
Weight	2.9 KG	2.9 KG	2.9 KG	2.9 KG
Overall	1,100mm (when stock adjusted to the minmum length)	1,100mm (when stock adjusted to the minmum length)	1,100mm (when stock adjusted to the minmum length)	1,100mm (when stock adjusted to the minmum length)
Inner Barrel Length	485 mm	485 mm	485 mm	485 mm
Pellet	6 mm BB	6mm BB	6 mm BB	6 mm BB
Capacity	30 rds	30 rds	30 rds	30 rds
Muzzle Velocity	426 / 315 FPS	492 FPS	490 FPS	492 FPS
Action / Shooting Mode	Bolt Action / Adjustable Trigger System	Bolt Action / Adjustable Trigger System	Bolt Action / Adjustable Trigger System	Bolt Action / Adjustable Trigger System

*Xtreme Tactical Carbine*  
**XTC SERIES**  
*Automatic Electric Airsoft Gun*

Aerodynamic features life-like detailing beyond comparison. OE caliber with upgraded quality to dominate the field.



3-Point Fixed Ring and Double Nuts

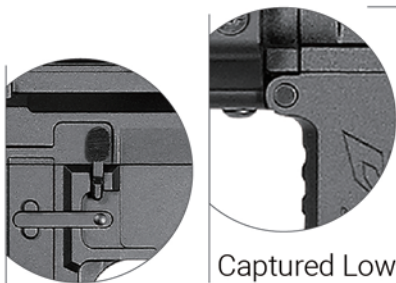


45° Ambi-Safety Selector



Tactical Sling Adapter

Redesigned Ergonomic Grip



Captured Lower Receiver Pin

Redesigned functional bolt catch



- ⌚ Redesigned Easy Dial Adjustment Hop Up System
- ⌚ 6.1 mm Extreme Straight Precision Inner Barrel



Enhanced Upgrade Gearbox Parts

- ⌚ CNC machined Steel Gear Set
- ⌚ Aircraft Aluminum Piston Head, Cylinder, Cylinder Head
- ⌚ 8mm Ceramic Ball Bearings
- ⌚ 7 Metal Teeth High Speed/ Torque Ultra Piston



Steel Straight Trigger

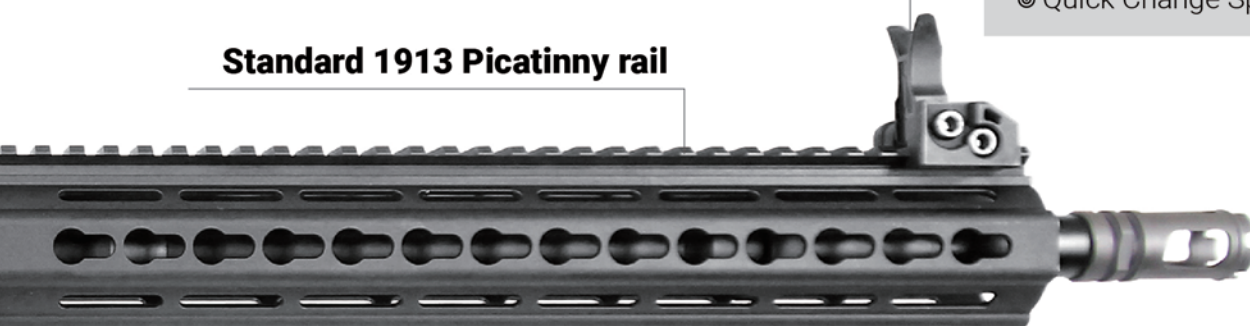
Enhanced Polymer 190rds Mid-Cap Magazine

- ⌚ Billet Style Upper and Lower Receiver
- ⌚ Front magazine serration for better grip
- ⌚ Flared magazine well for faster reloading
- ⌚ Built-in Enhanced Trigger Guard



**Functional Folding Sights**

**Standard 1913 Picatinny rail**



- ⌚ **CNC machined 14.5" Outer Barrel**
- ⌚ **T6065 H Grade Aluminum Rail KeyMod Handguard**



- ⌚ Triple battery storages
- ⌚ Ergonomic Stock Design
- ⌚ 6-position Adjustable Crane Stock
- ⌚ Quick Change Spring and FPS Adjustable

**CNC machined Steel Flash Suppressor**

## SPECIFICATIONS

			
Model	<b>XTC-G1</b>	<b>XTC CQB</b>	<b>XTC PDW</b>
Major Color	BLK	BLK	BLK
Inner Barrel Caliber	6.1 mm	6.1 mm	6.1 mm
Weight	2.9 KG	2.3 KG	2.7 KG
Overall	804 mm / 889 mm (when stock is extended)	678 mm / 763 mm (when stock is extended)	565 mm / 640 mm (when stock is extended)
Inner Barrel Length	363 mm	257 mm	185 mm
Pellet	6 mm BB	6mm BB	6 mm BB
Capacity	190 rds	190 rds	190 rds
Muzzle Velocity	Step 1: 278 FPS / Step 2: 315 FPS Step 1: 360 FPS / Step 2: 394 FPS	Step 1: 238 FPS / Step 2: 270 FPS Step 1: 337 FPS / Step 2: 370 FPS	270 FPS
Action/ Shooting Mode	Full Auto, Semi Auto and Safety 45° Ambi-Safety Selector	Full Auto, Semi Auto and Safety 45° Ambi-Safety Selector	Full Auto, Semi Auto and Safety 45° Safety Selector

# Airsoft Upgrade Parts

New Products

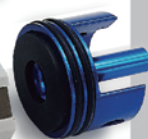
## AOE cylinder Head & Piston (w/10 Metal Teeth)

**The most effective upgrade for Ver.2 gearbox**

- ⊗ CNC machined aluminum AOE cylinder head
- ⊗ 10-wear resisting steel teeth AOE piston
- ⊗ Lengthened cylinder head for correctly setting AOE in most AEGs



The exacting AOE cylinder head is designed to increase piston durability by correcting angle of engagement (AOE).



### Shown after 6,000 shots.

The AOE Piston lasts significantly longer when mated with the AOE Cylinder Head (Hulk green), helping to make your AEG much more reliable.

The AOE Cylinder Head & Piston work independently and together to form a functioning Angle of Engagement.



The AOE Cylinder Head works with a piston whose 2nd tooth is removed.

## Stainless Steel 6.03mm Precision Inner Barrel for Gas Blowback Pistol / GBB

- ⊗ CNC machined 304 Stainless steel
- ⊗ Extremely Straight with High Rigidity and Accuracy

66305101	74 mm	for MARUI G26/KJ G27 Gas Blowback Pistol
66305102	85 mm	for KJW G19/G23 Gas Blowback Pistol
66305103	91 mm	for Marui M&P9/ PX4 Gas Blowback Pistol
66305104	97 mm	for Marui G17/G18C/P226/Hi-Capa 4.3 Gas Blowback Pistol
66305105	100 mm	for Marui XDM/FN57 Gas Blowback Pistol
66305106	100 mm	for Marui HK45 Gas Blowback Pistol
66305107	113 mm	for Marui Hi-Capa 5.1/MEU/M1911 Gas Blowback Pistol
66305108	115 mm	for Marui M9A1 Gas Blowback Pistol
66305109	133 mm	for Marui SOCOM Mk23 Gas Blowback Pistol
66305110	136 mm	for Marui Desert Eagle .50E Gas Blowback Pistol
66305111	138 mm	for Marui Hi-Capa 5.1-6 inch Gas Blowback Pistol
66305112	146 mm	for Marui MP7A1 GBB



## MPI 22T Torque Motor - Long Shaft (Neodymium Magnets)

### Low-speed, high-torque Motor

- ⊗ Neodymium magnets design ensures consistency, high performance
- ⊗ Minimum Power Intake design extends durability
- ⊗ Torque type motor designed for high tension spring
- ⊗ Steel motor pinion gear



No load and rated voltage test  
by 8.4V DC and 11.1V DC

8.4V	11.1V
18500 rpm	25000 rpm
<=2.4A	<=2.8A

# Airsoft Upgrade Parts

Feature

## Modular Gear Set

### Bushing Type

- ☉ Torque 22.2:1
- ☉ Torque 21.6:1
- ☉ Speed 16.32:1
- ☉ Top Gear 15.05:1



## SMOOTH Modular Gear Set

### Bearing Type

- ☉ Torque 22.2:1
- ☉ Torque 21.6:1
- ☉ Speed 16.32:1



ARC Design

Option

## Tremors 2 Recoil system

### For M4 Carbine Upgrades

- ☉ The separate hammer and hammer guide make recoil impact more realistic.
- ☉ Recommended for 22 BPS and under.
- ☉ The hole for the stock screw on the gearbox needs to be bigger to allow installation of new parts.

## Hybrid 6.03 / 6.01 mm

### Precision Inner Barrel

1st Class Stainless Steel & Aircraft Aluminum Alloy  
Comes with 2-Ring Hop Up Bucking and O-rings



HP-03-01/31	141 mm	for MP5K-PDW
HP-03-02/32	229 mm	for MP5
HP-03-03/33	247 mm	for CAR15, P90, G36C, SIG552
HP-03-04/34	285 mm	for M4 CQB-R, MC51
HP-03-05/35	300 mm	for Next Generation G36K, M1A1, M733, MC51+
HP-03-06/36	363 mm	for M4A1 New & Old Types/R.I.S./SR16, XMXM177E2, SIG551)
HP-03-07/37	407 mm	for M4A1/R.I.S./SR16, SIG551 (ALL+)
HP-03-09/39	455 mm	for AK47/AK47S
HP-03-10/40	469 mm	for G3-A3/A4/SG1
HP-03-11/41	500 mm	for TM M14
HP-03-12/42	509 mm	for M16A1/ A2/ VN, AUG, M249
HP-03-13/43	550 mm	for M16A1/ A2/ VN, AUG (ALL+)
HP-03-14/44	590 mm	for PSG-1
HP-03-15/45	650 mm	for PSG-1+
HP-03-18	315 mm	

## quantum Gear Set

"Twin-Sector" design allows double-cycle two-shots per sector gear cycle.



## complete Upgrade Gearbox for Ver.2 / Ver.3

High performance complete gearbox with all Modify upgrade internal parts and rear/ front wiring.



## 8mm Ceramic Ball Bearings

Revolutionary design for improved effectiveness and durability.



## Safety Anti-Reversal Latch

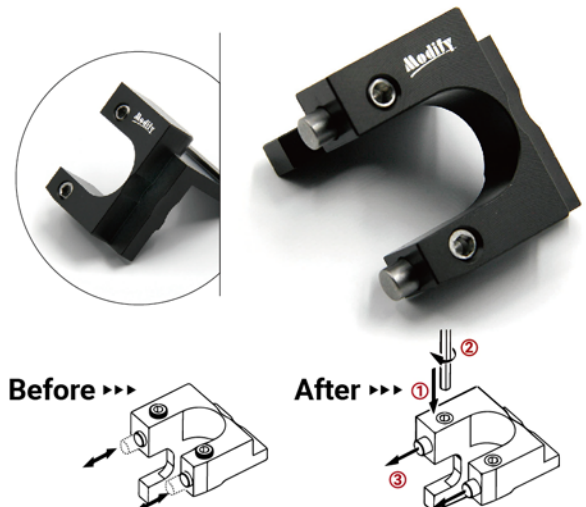
More than an Anti-Reversal Part



## AEG Wellock Bracer for Ver. 2 Gearbox

### Fixed-Angle Design

- ⌚ Unilateral brace-post design for effective support without loosening
- ⌚ Surface against gearbox has U-channel for enhanced stability and closer contact
- ⌚ Special external design to offer extra room for wiring to minimize interference



# Airsoft Upgrade Parts

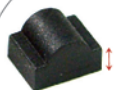
Best-seller

## Hop Up Bucking



Accurate Hop Up Bucking for VSR-10, TM Hi-CAPA, M1911A1, SIG P226, SOCOM MK23, GLOCK 26 Series

High-grade Aircraft Rubber



Thicker

Flat Hop Up Bucking for 0.25g or above heavy BBs

BATON RYUSKU Hop Up Bucking Set



Flat Hop Up Bucking - Soft Type for 0.2g BBs

BATON RYUSKU Hop Up Bucking Set

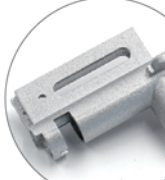


## Hop Up Chamber



Accurate Metal Hop Up Chamber for M16 / M4 Series

Gears for better accuracy and easier operation



Accurate Metal Hop Up Chamber for AK47 / AK47S Series

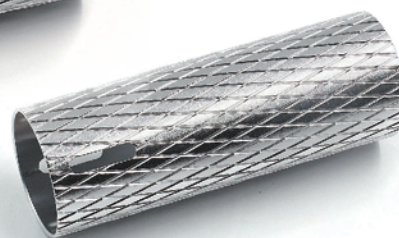
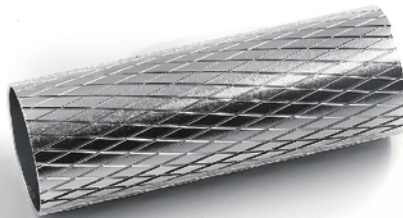
Redesigned Pressure Plate makes accurate adjustment easier



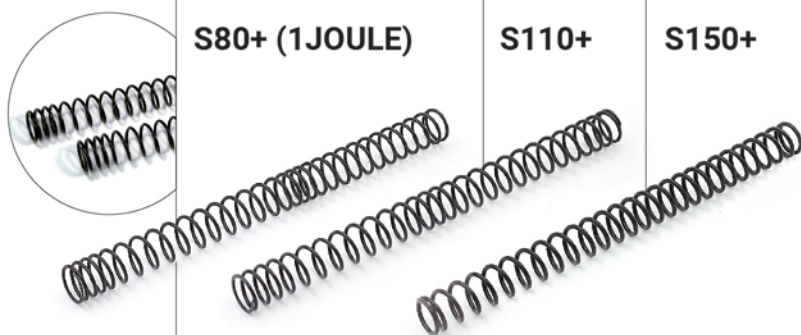
## DMND cylinder



Gap design to avoid BB feeding problem



## TokyoMarui A.E.G. Irregular-Pitch Spring



### TEST REPORT

by Rookie Sun, Modify Co. © 2006

These MODIFY parts were tested on a Tokyo Marui M4A1 using the following equipment, upgrades and conditions :

BB :	TM 0.2g
Piston :	Modify Polycarbonate Piston
Piston Head :	Modify red Aluminum Piston Head w/ Bearing
Cylinder Head :	Modify v2 Stainless Cylinder Head
Nozzel :	Modify GB-08-11
Spring Guide :	Modify v2 w/ Bearing
Bush :	Modify Stainless Bush (double oil reservoir)
Battery :	Sanyo SCE 9.6v 1800mAh
Chronograph :	Shooting Chrony SPEEDER-2000
Shooting Times :	20
Average Temperature :	20°C

All springs tested were in brand new condition first and then re-tested after shooting 30,000 pcs of BBs. Your results will vary from these published results. Different upgrades will provide different results. The data contained in this chart should only be used as a reference.

#### Velocity (fps)

Modify	ave. Velocity (fps) (springs tested were in brand new condition)	ave. Velocity (fps) (springs tested after shooting 30000 pcs of BBs)
S100+	369.49	369.00
S110+	410.82	405.90
S120+	444.41	443.75
S130+	469.86	466.74
S140+	518.52	540.21
S150+	542.09	540.21

## Piston

### High Power / High Speed Ultra Piston

For high power application, with 7 Metal Teeth



### Quantum Piston

Titanium Coating Full Metal Teeth



### High Speed / High Power Ultra Piston

For high speed application, with 7 Metal Teeth



Cut off a tooth

## Ultra Plug (T-Shape Connector) new

Gold-plated T-shape Connector



## Motor connector Plug Set

Fast, easy replacement for worn out motor wire plugs



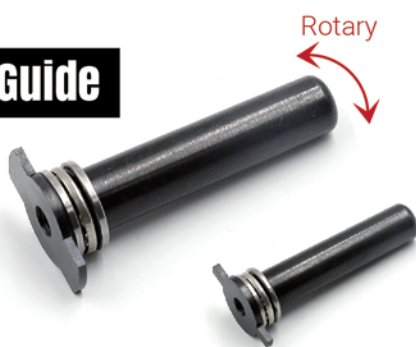
# Selected Products

Upgrade Parts  
for AEGS

Please visit our website to get  
more information about the  
airsoft upgrade parts.



## Spring guide



## Bore-Up cylinder Head cylinder Head



## Wires

Assemble with Modify  
Silver-Plated Cord

- ☉ Tamiya Plug
- ☉ Ultra Plug



## Bore-Up Piston Head Piston Head



## Bushings



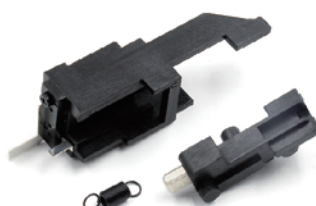
## Bore-Up Nozzel Nozzel



## Bearings



## switch Assembly set



## shims



## Upgrade Parts for Gas Blow Back



**Valve**



**Recoil Spring Guide**



**Enhanced Firing Pin**

## Upgrade Parts for Bolt Action Sniper Rifle



**Piston**



**Stainless Steel  
Spring Guide**



**Cylinder Head**

## Accessories

### Magazines for M16/M4 AEGs

- ⌚ 190 rds XTC Mid-Caps
- ⌚ 150 rds B-hive Mid-Caps Tracer Magazine
- ⌚ 300 rds J-Mag Tracer Magazine (for quick loading)



### Shooter BIO BBS

- ⌚ 5 weight option
- ⌚ PLA Material
- ⌚  $\pm 0.01\text{mm}$  Tolerance



### oil series

GB-11-01	Pure Silicone Oil 50cps. (60ml)
GB-11-02	Pure Silicone Oil 1000cps. (60ml)
GB-11-11	Synthetic Lubricant with PTFE (20cc)
GB-11-12	Synthetic Lubricant with PTFE (3cc)
GB-11-13	Synthetic Lubricant with PTFE - Gear Grease (20ml)
GB-11-14	White Gear Grease



# Selected Products

## Tactical Glasses



Tactical Glasses Features :

- ⦿ Lens inner and outer layers anti fog
- ⦿ Anti-Impact
- ⦿ Selenite polycarbonate die-cut lenses, Lenses same material as ESS, 5.11.
- ⦿ Meets CE EN166 and ANSI Z87.1+ standards for use in industrial applications
- ⦿ The glasses were tested by EN166:2001 and ANSI/ISEA Z87.1-2015.
- ⦿ Glasses and frames have printed CE symbols and bulletproof symbols
- ⦿ MODIFY EN166 F CE, MODIFY 1 F N CE, MODIFY Z87+ PC99 frame foot
- ⦿ Bendable frame foot
- ⦿ Adjustable nose pad
- ⦿ stainless steel screw



## Suppressor



- ⦿ 15 cm long
- ⦿ 14 CCW
- ⦿ Different size and inner diameter sponge
- ⦿ Can be used with inner tube holder



## M-LOK Handguard



- 2 Skin Options
- XTC exclusive
- Aluminum-alloy handguard
- M-LOK system
- Cool Rectangle-hole design
- CNC anodized



## M-LOK Rail

- 2 Length Options
- CNC machined
- Aluminum alloy
- M-LOK system
- Beveled picatinny rail





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