

Real Sword RS Type 97

A few words about the real steel assault rifle:

This information about the realsteel gun has been taken from <http://www.world.guns.ru>

Direct link: <http://world.guns.ru/assault/as39-e.htm>

Data for QBZ-95 (QBZ-97 in parentheses, where differs from QBZ-95)

Caliber: 5.8x42 mm (5.56x45 mm NATO)

Action: Gas operated, rotating bolt

Overall length: 760 mm

Barrel length: 520 mm

Weight: 3.4 kg unloaded

Rate of fire: ~ 650 rounds per minute

Magazine capacity: 30 rounds



In the late 1980s Chinese designers developed a 5.8 x 42 cartridge, apparently designated DBP87, which is claimed to be superior to both the 5.56 mm NATO and the 5.45 mm Soviet. This cartridge develops a muzzle velocity of 930 metres per second from a standard barrel, with a bullet weighing 4.26 gram.

As soon as the ammunition was ready, the PLA began to develop an entirely new and much more modern family of small arms based on the same action. This family, known as QBZ-95 ('Qing Buqiang Zu' = Light Rifles family, 1995), was first displayed outside the PLA in 1997, when China took over Hong Kong; it was observed that the Chinese guards were armed with a new, modern looking bullpup rifle. In fact it is one of an entirely new family

of weapons, all designed around the same action and bullpup layout, which include the assault rifle, a shorter carbine, a light support weapon (with a bipod, a heavier barrel and large capacity magazine), and a sniper rifle. While being quite similar inside, these guns have different body shapes and cannot be converted from one configuration to another. The QBZ-95 line of weapons is now spreading throughout the PLA, commencing with elite units.

The QBZ-95 is a gas operated, magazine fed, automatic weapon with a bullpup layout. It has a short stroke gas piston and a rotating bolt. The charging handle is located at the top of the receiver, under the carrying handle. The housing is made from polymer, with an integral carrying handle, which holds the rear sight base, and has mounting points for optical or night vision scopes. The ejection port is made only at the right side of the weapon, so it cannot be fired from the left shoulder. Standard sights are of the open type, graduated from 100 to 500 metres. The front part of the barrel in the standard version is left unobstructed, so the QBZ-95 rifle can be used to launch rifle grenades. It also can be fitted with an underbarrel grenade launcher or with a knife bayonet. A compact carbine version, sometimes referred to as the CAR-95, cannot use either a grenade launcher or a bayonet, because of the much shortened barrel. Fire controls of QBZ-95 rifle consist of a trigger and a safety/selector switch, located (quite inconveniently) at the rear left of the receiver, behind the magazine housing. QBZ-95 can fire single shots or bursts.

The export version, QBZ-97, which is chambered for popular 5.56 x 45 NATO ammunition, is internally similar to QBZ-95, but has a different, much deeper magazine housing, which accepts a NATO-standard (M16-type) magazines.

Now lets start our review:

This is a full review of Real Sword Type 97 airsoft electric gun. In this article I would like to outline strong and weak points of this assault rifle, to make the full disassemble of the gun, and I' d like to describe the internal parts of gearbox.

This electric gun is very unusual due to the fact that engineers of Real Sword Company created unique type of gearbox and they managed to install it in the real steel gun.



As you can see there are metal m-series low-capacity magazine, instruction manual, cleaning rod (for the real steel gun), loader, and the foresight regulator tool in the box. Also we can see the plastic bottle with gun oil and orange flashhider for US and other countries with law restrictions.



I' ve made a few shots and the result on chronograph was quite good. The muzzle velocity is 96 m\s (314.96 FPS) with 0.2 Guarder BB, the motor is adjusted very good so the sound is nice.



External view



In comparison with popular AEG



Now I will disassemble the AEG. Disassembling is very easy and convenient.























I was impressed by RS gearbox. The quality leaves good impression. Thick and solid shells, 7mm bearings, everything is made and assembled with care.



It takes 5-7 minutes to change the spring just during the game. And you needn' t disassemble the gearbox. The feature is similar with M249. You only need a small screwdriver.

Another useful feature is a spring release button. If the AEG is jammed you can easily solve this problem.



The barrel is not standard but it is not a great problem. The closest analog is the inner barrel for G3 (469mm) but it is possible to install AUG (m16) barrel 509mm. Due to the bullpup construction the assault rifle is very compact but it can hold long inner barrel. It increases the accuracy and allows playing in the forest.



Lets open the gearbox







The interior is perfect. Good quality 7mm metal bearings, polycarbonate piston with 2 steel teeth, ventilated polycarbonate piston head, well-polished brass cylinder, polycarbonate cylinder head and nozzle (compatible with AK-nozzle) with rubber ring.

But there are some unique details:

- Tappet plate
- Cylinder head
- Gears
- Piston
- Hop-up chamber (hybrid between AK chamber and m-series chamber)
- Contacts



Speaking about the motor I can say that characteristics are very close to the Marui Eg-700. It is difficult to say about operating life but it is clear that such a motor can cock m120-130 spring easily. If it is necessary you can replace it by any s-type motor.

It should be stressed that the gears are of best quality. RS managed to produce perfect gears: heavy and reliable. There is no difference between Prometheus triple torque up and RS if we compare the weight. In my opinion m140 spring can be easily installed.



香港國際實業有限公司

RS INTERNATIONAL INDUSTRY HONGKONG CO.,LTD.

Unit 1109, 11/F, No.83-93, Chai Wan Kok Street, Tsuen Wan, N.T., HongKong

FAX : 00852-2402 1385

TEL : 00852-2402 1381

www.rsword.com.hk

rsword.com.hk









Now a few words about ergonomics.

It takes some time to get used to Type 97. As any bullpup gun it has specific design. As for me the gun is rather convenient. Compact size and good weight balance make aiming and shooting comfortable. Type 97 is efficient in the forest and it can be used in CQB due to the compact size. Lots of accessories can be installed, such as flashlight, telescopic sight, laser dot.

Speaking about magazine compatibility I can say that CA, Tokio Marui, Mag are fully compatible with Type 97.

In conclusion I would like to say that:

1 Type 97 is very realistic AEG. There is little difference between airsoft and realsteel.

2 The quality is perfect. Either external parts or internal are impressive. This is one of the most realistic AEG ever produced.

3 The gearbox parts are reliable. It will be easy and cheap to upgrade the AEG up to 120-130 m/s (~415FPS). You only need to change the spring

to Guarder Sp 120. The muzzle velocity will be up to 135 m\s (426.5 FPS)
4 The main problem is gearbox assembling. It is hard to assemble the contact group. Another problem is antirevers latch. It is also difficult to install.

5 Accuracy with the stock inner barrel is similar with Systema 6.04 469mm.

6 I can't say something negative about RS Motor because I have no statistics, but I'm sure that It can cock m130 spring. It is not a problem to change the stock motor to the any S-type electric motor.

7 There is little space in AEG for storage battery. It is better to use LiPo or LiFe cells.

It is obvious that Type 97 is very good product. It is clear that there some weak points but in general it is very good AEG. I installed Sp120 spring and made an external battery on the receiver and play with my Type 97 in winter (-7 -10 degrees) and it operates without any problems. In my opinion it is one of the most realistic AEG and it is good value for money.

21.01.09 Werner [44 reg. NVA DDR]