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Can be used both day and night? Type 81 automatic rifle special compound sight

2019-09-11 by General Posted in Military

Since humans invented long-range weapons such as bows and crossbows, they have spared no effort to study how to shoot more accurately, and at this time mechanical sights appeared. The earliest mechanical sights in my country appeared in the Han Dynasty. A crossbow with a mechanical sight was unearthed in the tomb of Liu Sheng, the famous King Jing of Zhongshan. This sight is called "Wangshan", which is designed based on the Pythagorean theorem and is similar to the scale on the current rifle.



As the range of human firearms gradually increases, the demand for accuracy naturally becomes more urgent, and this is when optical sights came into being. Optical sights use optical lenses to form images, overlapping the target image and the aiming line on the same focal plane. Foreign militaries started researching optical sights earlier, and major military powers have very mature products. However, my country started late in this field, and due to the Western technological blockade, it can only take the path of independent research and development and cross the river by feeling the stones.



The Type 81 automatic rifle is a star weapon made in my country. It is loved by veterans in China and has a large number of loyal fans overseas. I will not go into details about the Type 81 automatic rifle here. Today I will mainly talk about a composite sight specially developed for the Type 81 automatic rifle.



Everyone should have seen this picture. The scope installed on the 81 bar in the picture is the 97-3 scope, which was developed by the former Armed Police Research Institute specifically for the Type 81 automatic rifle. It is a high-precision day and night general-purpose scope intended for use in special environments.



There is not much information about this kind of scope. I first saw it in a magazine. Here I will tell you about the advantages and disadvantages of this scope.

First of all, let's talk about the design concept. This scope was born in the environment where the Type 95 automatic rifle was being equipped, and the Type 81 automatic rifle would not be eliminated in a short time. Whether it was the three armed forces or the armed police, the modernization of the Type 81 automatic rifle was imminent. The purpose of developing the Type 97-3 scope is to improve the shooting accuracy of the Type 81 automatic rifle and improve its night shooting performance.




The 97-3 sight is composed of an optical sight and a laser indicator. It is easy to operate and soldiers can use it easily. During the day, the target can be magnified three times by using the white light sight below, increasing the long-range precision shooting capability. At night, the upper laser indicator is used to assist aiming, making it easier for soldiers to aim at the target.



Since the Type 97-3 scope can improve the shooting accuracy of the Type 81 automatic rifle and can be used day and night, why is it not installed?

Because its shortcomings are also quite obvious. First of all, there is the problem of installing the Type 97-3 scope. There is no device for installing the scope on the Type 81 automatic rifle. A special bracket is required to install the Type 97-3 scope. Although this scope is easy to use, it is very troublesome to install. I am afraid that soldiers with average cultural level cannot install it by themselves. Secondly, the overall size of the scope is large and the shape is irregular. It is easy to hang on the equipment and carrying equipment, which affects the soldiers' tactical actions and limits their athletic ability.

Although the Type 97-3 sight was not put into service by the troops, it helped scientific researchers accumulate a lot of design experience, which was used in the design of sights for other automatic rifles in the future, making my country's military rifle sights more advanced, mature and practical.

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Rifle scopes have many mysteries. The performance of China's 56 semi-automatic rifle sights is worrying.

2016-08-27

Rifle scopes are standard equipment for snipers, which is very "noble" for ordinary rifles, but scopes are not a panacea. If the shooter does not train, he will not be able to hit the target accurately even with a scope. Perhaps because of this, China has not developed scopes on a large scale. Until now, only the 56 semi-rifle scope has been handed down, and its performance is also very worrying.

Fenghuo Liancheng-A comprehensive analysis of the Type 95 rifle

2017-12-28

The Type 95 rifle has been criticized on the Internet in the past two years, but I personally think that the biggest shortcoming of the Type 95 rifle is not the gun itself. In order to see it clearly, I added a picture of firing blanks. The black smoke at the muzzle is quite obvious, which mainly shows the process problem of the 5.8mm bullet. One of the shortcomings of the Type 95 is that it is eye-catching, but this is obviously a problem with the propellant of the bullet, not the gun. The manufacturing process of the propellant is too poor.

Type 95 overall assessment - still an excellent rifle

2018-02-26

The Type 95 rifle has been criticized on the Internet in the past two years, but I personally think that the biggest shortcoming of the Type 95 rifle is not the gun itself. In order to see it clearly, I attached a picture of firing blanks. The muzzle black smoke is quite obvious, which mainly shows the process problem of the 5.8mm bullet.

Basic knowledge of light weapons: gun sights. It turns out that there is so much knowledge in such a small sight.

2018-02-28

The aiming state of the notch rear sight and the blade front sight of the Russian TT-33 pistol, that is, the notch, the front sight, and the target are "three points in a straight line". Anyone who has practiced shooting knows this sentence: holding the gun is the basis, aiming is the premise, and firing is the key.

The change of mechanical sights shows that the Tavor rifle has been well received by users and is innovative.

2016-12-09

The 95 rifle has been equipped with a white light sight, which can greatly improve shooting accuracy!

2018-02-05

The Type 95 automatic rifle is abbreviated as Type 95 and is developed by China North Industries Group Corporation. In the 1980s, the first generation of domestically produced small-caliber rifles, the Type 87, had defects such as large size and weight and backward production technology, and could not meet the needs of the military.

China's new generation of rifles will be unveiled soon, no longer using a bullpup structure, and will replace the Type 95

2019-03-30

The domestically produced CS/LR17 rifle can be seen as the forerunner of the domestically produced new generation of rifles. Recently, news appeared on the Internet that a new domestically produced rifle will soon be unveiled.

To sum up: What are the factors that affect the accuracy of sniper rifles?

2017-07-28

There are two main directions for the development of sniper rifles: the first is to continuously

improve the dispersion accuracy and thus improve the first-shot hit rate; the second is to continuously increase the effective killing distance and killing power. The perfect combination of military weapons and optical sights can be said to be one of the important means to achieve beyond-visual-range combat. And it is precisely because of the demand for long-range sniper operations that traditional non-automatic rifles can demonstrate a more unique tactical value than automatic rifles.

Military | The domestic 88 sniper rifle is used. The 5.8 caliber machine gun bullet is too light and is too biased when shooting.

2018-10-08

Why has China not retired the Type 95 rifle since it has been equipped with the Type 03 rifle? Here is the reason

2018-01-16

The Type 95 automatic rifle and the Type 03 automatic rifle are two small-caliber automatic rifles currently in service in my country, but their fates are very different. At present, the Type 95 automatic rifle has formed a family of guns and is in service with Chinese troops on a large scale; while the Type 03 automatic rifle is relatively rare and is mainly in service with the border defense forces of the People's Liberation Army or some armed police forces.

Weapons | What are the features of the CQB version of the assault rifle?

2016-04-28

The segmented video links of the series "Close Combat" (broadcast time is every Saturday night at 22:40, replay time is 9:40) are here, please click here: PS It is recommended to watch it in a WIFI environment, and the rich and willful can watch it at will. Today, the Chinese Military Television Network's "Group Talks about Military Affairs" column will introduce to you several weapons that appear in the video.

The "black technology" of the sight is coming again: How do we develop the "clairvoyance" in the modern battlefield?

2017-03-21

Source: China Military Network Author: Zhang Naiqian Editor: Chen Jie Poster of the movie "Operation Mekong" In the movie "Operation Mekong" that made military fans excited, the M4 assault rifle developed from the M16 rifle was equipped with a special aiming device above the flat-top receiver, which is the ACOG tritium sight.

A brief discussion on the height difference between the aiming line and the muzzle

2019-06-12

If you install an optical sight on a gun, especially a rifle, the aiming line formed by the sight will be higher than the center of the barrel. Before using an optical sight, it needs to be zeroed at a fixed distance, that is, by adjusting the optical sight so that the center of the crosshairs coincides with the bullet's impact point at this distance. This distance is called the zeroing distance.

The evolution of rifles from the perspective of sight usage

2019-03-18

First, rifles that mainly use mechanical sights for aiming and shooting can only complete precise shooting tasks within 200 meters during the day and within 30 meters at night.

The equipment and tactics of Soviet snipers in World War II caused great panic to the enemy

2019-08-12

After World War I, sniping became an integral part of warfare. Due to its close relationship with the German Weimar government, the Soviet Union was able to obtain some new equipment and new weapons production technology during this period.

"Weapon Introduction" Type 88 sniper rifle equipped by the Chinese army

2019-02-07

The main weapons equipped by the People's Liberation Army since the founding of the People's Republic of China - sniper rifles

2019-07-10

Type 79 sniper rifle Type 79 sniper rifle is a copy of the former Soviet Dragunov semi-automatic sniper rifle captured from Vietnamese snipers during the 1979 self-defense counterattack against Vietnam.

Sniper rifle - Type 88 sniper rifle

2018-09-04

Click on the blue words above to subscribe. The QBU-88 sniper rifle is an active sniper rifle of the Chinese military. The caliber is 5.8mm, the ammunition is the same as that of the 95-type automatic rifle family, and it is a bullpup design.

India reveals its domestically produced automatic rifle: It

turns out to be just an improved version of INSAS

2016-03-23

The Indian Army began receiving a batch of self-developed 5.56mm assault rifles in March to replace the existing Indian-made 5.56mm "INSAS" rifles. The Indian Ordnance Factory Board completed a series of tests at the Mhowa Army Station in Madhya Pradesh to evaluate the capabilities of the rifle. The gun successfully passed the test. The standard weapons currently used by the Indian Army are considered "inferior to the weapons of anti-government militants."



The biggest controversy about the Type 95 rifle: The aiming baseline is too high and you have to stretch your neck to shoot.

2019-01-25

China's ability to expand its light weapons capabilities has always been criticized by many military fans. The most important of these is that the baseline of the Type 95 automatic rifle is terribly high after the optical sight is installed, and you often have to stretch your neck to aim and shoot.



Military | SM-1 personal defense weapon produced in Israel

2018-08-18



The Swiss SIG SG 553 carbine not only has excellent performance but also looks beautiful

2019-05-25

SIGG is a world-renowned military company, and its pistols and rifles are of excellent performance. The SIGSG552 carbine was previously equipped by the Swiss army and special police teams of some countries. Since it could not meet the military's needs in terms of reliability and accuracy, the SIGSG553 carbine was later derived.



Long-range artillery cannot see the target, but the installed sight is very useful

2015-12-09

Firearms and other firearms have been inseparable from the word "aiming" since the day they were born. If you want the ammunition to hit the target accurately after firing, you need to aim accurately. The aiming of firearms is easy to understand. Usually, it uses visual-notch/peep sight-front sight. The binding standard gives the muzzle shooting angle. When the three points form a straight line, you can accurately hit the enemy.



The first domestically produced heavy machine gun, replacing the Soviet one, can penetrate any armored vehicle within 800 meters

2017-05-28

The domestically produced Type 89 heavy machine gun is a heavy machine gun that applies many mature designs. Because it uses new materials and a simpler design, it is lighter in weight. At the same time, it also has the ability to effectively kill/destroy/suppress enemy cluster targets, various light armored units and low-altitude and low-speed targets.