

Отчет об исследовании советской 57-мм противотанковой пушки ЗиС-2 образца 1941 года

Американскими специалистами в 1945 году. С фотографиями.

Для исследования было взято советское 57-мм противотанковое орудие образца 1941 года (ЗИС-2), захваченное американскими войсками у вермахта. В вермахте орудие использовалось под обозначением 5,7 см PaK 208 (r). Орудие американцами было определено для исследования. Фотографии из материалов исследования орудия. Краткий перевод.

1. GENERAL:

[A Russian 57 mm (2.24 in) Antitank gun was found at the Hillersleben Proving Ground. The weapon can be easily distinguished by its extremely long tube.] The Russian nomenclature for this gun is 57 mm Antitank Gun, Model 41 "SiS-3". The Germans had captured a quantity of this model and had called it the 5.7 cm Pak 208 (r). Brief details of this gun were included in ETO Ordnance Technical Intelligence Reports No. 83 and 214A.

2. DESCRIPTION:

a. The Gun

[The gun is a long-barreled weapon without a muzzle brake (Photo 1). Its overall length is 13 ft. 7-1/4 in. It uses a vertical sliding, semi-automatic breech block that opens on counter recoil.] In order to insert the first round, a hand lever on the right side is moved to the rear to manually open the breech. Firing is accomplished normally by a plunger in the center of the traversing handwheel acting on a cable (Photo 5). The firing mechanism is cocked on counter-recoil but a lever on the left side of the gun may be used to cock the firing mechanism in case of a paraprostic Urtrowbridge5

1. Главное:

Русская 57мм противотанковая пушка

2. Описание:

a. Ствол. Длинноствольная пушка

(1) The trails are of riveted box construction with fixed spades and folding handspikes. The trails are automatically locked in the open position. To close the trails, the locking plates for each trail is pulled to the rear and then released. (Photo 5). The opening of the trails automatically locks the spring shock absorbers to bring the firing reaction directly to the tires.

(2) The tires are of the rubber air cell type, size 6.50 x 20.

(3) An equalizer bar compensates for cant up to approximately 7 degrees. The equalizer bar is locked out automatically when the trails are closed by the camming action of the trails ends forward of the trail hinge pin.

d. The Recoil Mechanism.

The recoil mechanism is of the hydro-pneumatic, constant recoil type. The recoil cylinder is located within the cradle; the recuperator is above the tube (Photos 1 and 3).

e. Sighting Equipment.

No sighting equipment was found with the gun. A linkage arrangement is used to properly align the direct sighting telescope with the axis of the bore.

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(1) Станины клепанные, прямоугольной формы, коробчатые. Станины автоматически фиксируются замками при разведении их в открытом положении. Для закрытия (сведения) станин необходимо оттянуть фиксаторы (Фотография 5).

(2)

(3)

d. Механизм отдачи.

Механизм отдачи гидро-пневматический...

e. Прицельные приспособления.

Прицельные приспособления отсутствуют

2. DESCRIPTION:

a. The Gun

The gun is a long-barreled weapon without a muzzle brake (Photo 1). Its overall length is 13 ft. 7-1/4 in. It uses a vertical sliding, semi-automatic breech block that opens on counter recoil. In order to insert the first round, a hand lever on the right side is moved to the rear to manually open the breech. Firing is accomplished normally by a plunger in the center of the traversing handwheel acting on a cable (Photo 5). The firing mechanism is cocked on counter-recoil but a lever on the left side of the gun may be used to cock the firing mechanism in case of malfunctions.

b. The Upper Carriage.

(1) The traversing mechanism is of the enclosed type similar to that used on the United States 3 inch Gun Carriage M6 (Photo 5). No provision for free traverse is incorporated in the mechanism. The traversing handwheel is on the left side of the carriage, as is the elevating handwheel (Photo 5).

(2) The elevating mechanism is of the conventional sector and pinion type. An elevating arc is situated on each side of the tube. The elevating arcs are well forward of the gun shield and are partially enclosed by small shields (Photos 1, 2, 3 and 4).

(3) The traveling lock is located at the rear of the cradle and fits into brackets on the inside of each trail when the trails are in the closed position. The traveling lock is secured when the weapon is in the traveling position by rotating it by a lever located beneath the cradle.

(4) A one piece shield 5 mm thick is provided. An apron shield suspended from the axle is hinged upwards in the traveling position, and is lowered when the gun is prepared for firing (Photo 3). An aperture in the left side of the shield is provided for sighting the gun.

(5) Spring puller equilibrators are used. The equilibrator housings are cast integral with the top carriage.

2. Описание:

a. Ствол. Описание выше.....

b. Верхняя каретка.

(1)

(2)

(3)

(4)

(5)

RECORDED

FILE
1 - AUG 1945

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3. DATA:

Caliber and Model	57 mm 41 Sis 3
	German designation: 5.7 cm Pak 208 (r).
Origin	Russia
Length of gun incl. breech ring	13 ft. 7-1/4 in.
Length of gun in calibers	73 in.
Length of powder chamber	19-3/4 in.
Number of lands and grooves ..	24
Twist of rifling	Uniform, right hand
Muzzle brake	None
Type of breech block	semi-auto vertical sliding,
Type of recoil mechanism	Hydropneumatic constant
Markings on recoil scale	950 - 1100
Normal recoil	undetermined
Carriage	
Overall length (traveling position)	22 ft. 1-3/4 in.
Overall width (" ")	5 ft. 3 in.
Overall height (" ")	4ft. 7-3/4 in.
Max. spread of trails, approx.	60°
Max. elevation	18 in.
Max. depression	10 in.
Traverse	56 in.
Equilibrators	Spring, puller
Wheels	semi disc steel
Tires	6.50 x 20 rubber air cell
Brakes	none

4. ADDITIONAL DATA:

The following data have been obtained from captured documents.

Weight of projectile	6.9 lb.
Muzzle velocity	3280 ft/sec.
Maximum range, H.E.	8720 yd.
Maximum range, A.P.	4360 yd.
Weight of gun in firing position	3450 lb.

3. Технические характеристики:

Калибр и модель.....57 мм 41 ЗИС 3.

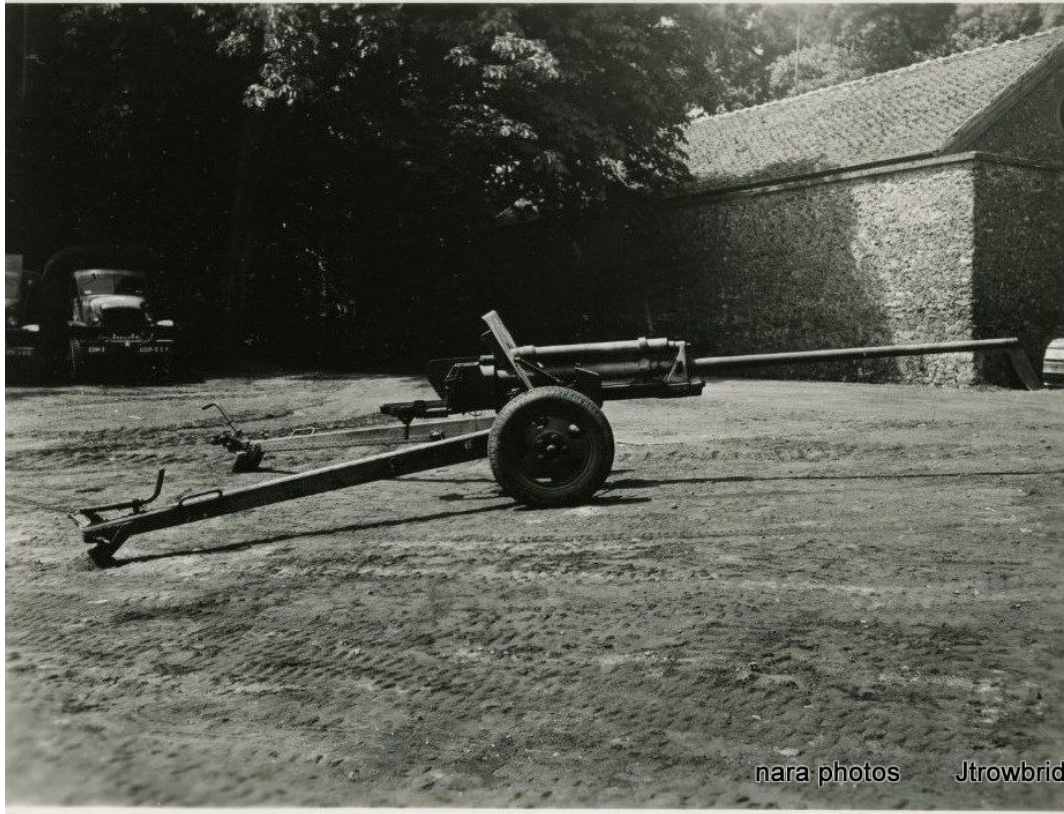
Страна.....Россия

Длина.....13 футов

.....

4. Дополнительная характеристики:

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Photo No. 1
Right side, firing
position.
One trail handspike
shown in traveling
position.

Фотография №1.

Вид справа в боевой позиции. Одна рукоять в транспортном положении.



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Photo No. 2
Front view. Firing
position. Apron
shield lowered.

Фотография №2.

Вид спереди в боевой позиции. Нижний щит в разложенном положении.



Photo No. 3
Three-quarter
left front view.

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Фотография №3.

Вид слева на три четверти. Надпись на щите – «Депонировать», т.е. передать на хранение.



Photo No. 4

Shock absorber lock shown. Apron shield lock on apron. Elevating worm on side of cradle.

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Фотография № 4.

Показана блокировка амортизатора. Нижний щит опущен. Подъемный механизм со стороны люльки.



Photo No. 5

Traversing handwheel with firing plunger in center. Soldier is pulling trail lock release so that the left trail may be closed. Cocking device shown in arc in gunner's shield. Brackets for traveling lock on inside of each trail.

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Фотография № 5.

Маховики наведения и управления огнем. Солдат тянет механизм разблокировки левой станины, чтобы её разблокировать и сложить. Отсутствует рукоятка управления огнем на стороне наводчика. Кронштейны блокировки станины в открытом положении внутри каждой станины.