

**Soviet 12.7-mm Heavy Machineguns DShK 38 and 38/46
(Chinese Communist 12.7-mm Heavy Machinegun Type 54)**

The Soviet DShK 38 and 38/46 guns are mounted on combination ground and antiaircraft mounts and also on armored vehicles. The earlier DShK 38 had a prominent domed rotary feed mechanism; the DShK 38/46 has a shuttle feeder with a flat feed cover. Recognition features are the long finned barrel with muzzle brake, the prominent hooked feed operating lever hanging from the feed mechanism, and the operating handle between the bottom of the grip handles.

CHARACTERISTICS

Caliber -----	12.7 mm
Operation -----	Gas, fully automatic, air cooled
Weight, w/mount -----	347.5 lb
Length, gun only -----	62.75 in
Sight -----	Front—hooded post; rear-adjustable V-notch folding leaf; AA ring sight also used
Feeding device -----	50-rd metallic link belt
Effective range -----	1000 m (AA) ; 2000 m (ground)
Rate of fire -----	80 rpm
Ammunition -----	Soviet, and ChiCom Type 54, 12.7 x 108 cartridges



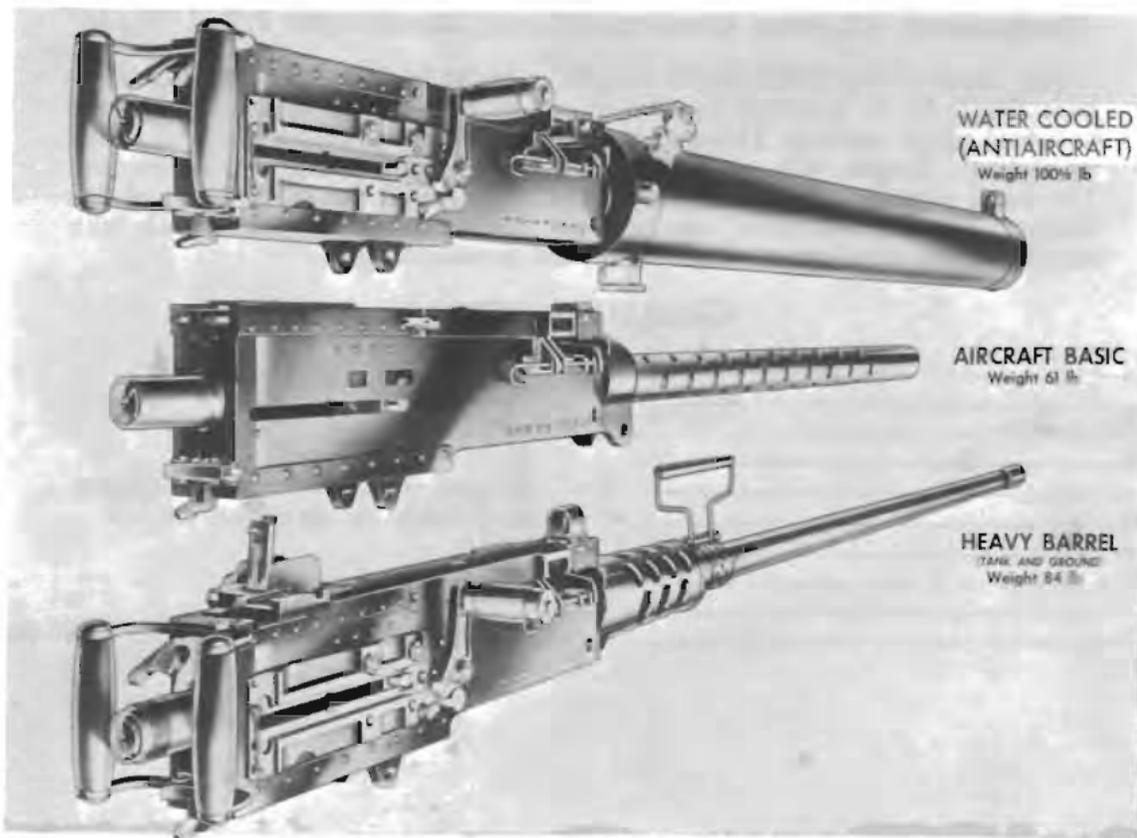
Czechoslovak 12.7-mm Quadruple Heavy Machinegun DShK 38/46

Czechoslovak 12.7-mm Quadruple Heavy Machinegun DShK 38/46

The Czechoslovak DShK 38/46 weapon is basically four Soviet-type machine-guns DShK 38/46 mounted together on a Czechoslovak manually elevated and traversed towed carriage. This gun is used for protection against low-level attack by aircraft. Targets with speeds up to 258 meters per second can be tracked. The small capacity (50-round) ammunition drums limit the effectiveness of this weapon. The 12.7-mm Quad can be easily recognized by its four barrels with muzzle brakes, round ammunition drums, and prominent sight.

CHARACTERISTICS

Caliber	12.7 mm
Operation	Gas, automatic, air cooled
Weight, traveling position.....	1411 lb
Length, overall.....	114 in
Sight	AA ring, telescope for ground targets
Feeding device.....	50-rd linked belt in each drum
Effective range—AA.....	1000 m
—Horizontal	2000 m
Rate of fire.....	80 rpm per gun
Ammunition	Soviet, and ChiCom Type 54, 12.7 x 108 cartridges



WATER COOLED
(ANTI-AIRCRAFT)
Weight 100 1/2 lb

AIRCRAFT BASIC
Weight 61 lb

HEAVY BARREL
(TANK AND GROUND)
Weight 84 lb

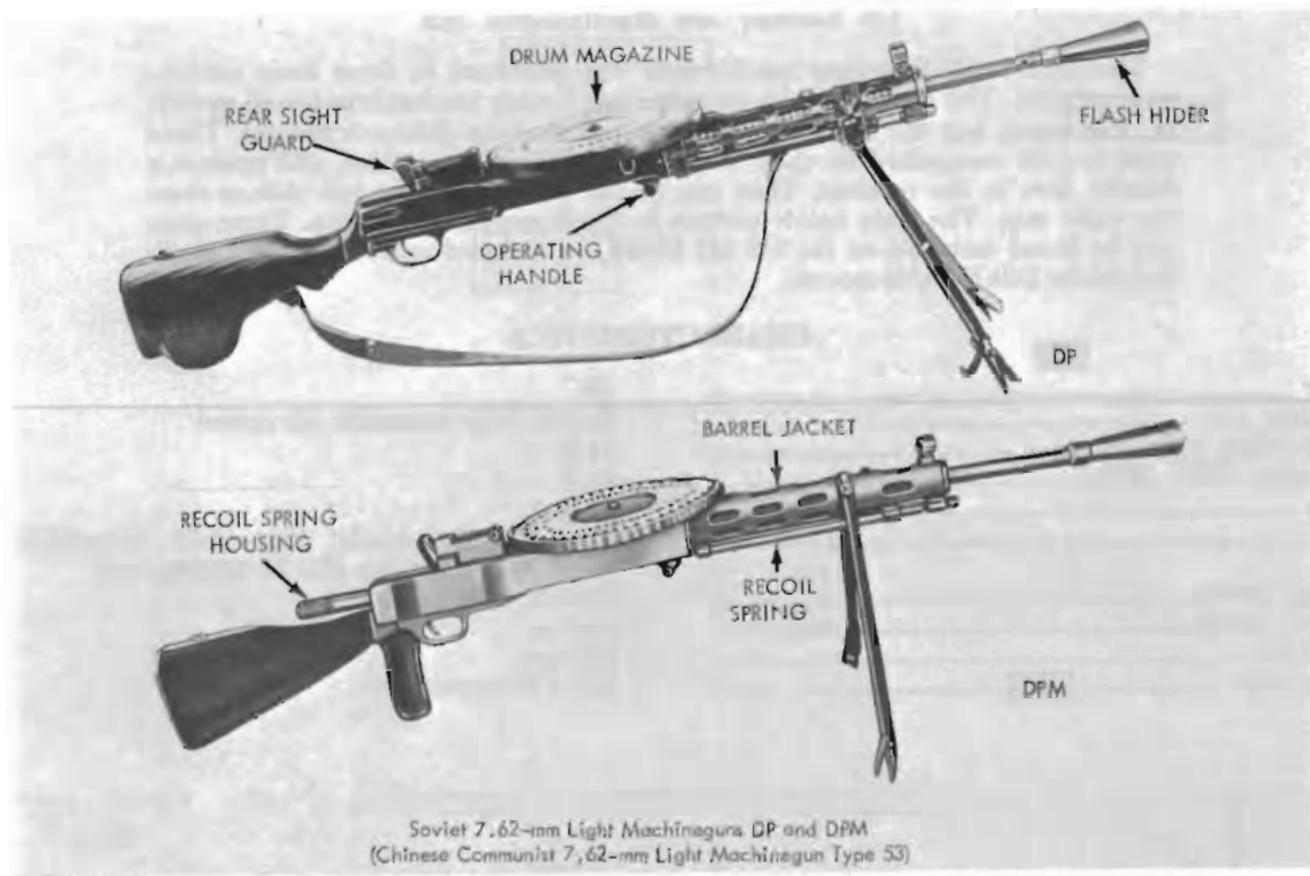
U. S. Caliber .50 Machinegun M2

US Caliber .50 Machinegun M2

The caliber .50 Browning machinegun was produced in three basic models, as illustrated. The designs of the receivers and breech mechanisms for all models are the same, but the barrels and barrel jackets have different designs. These guns can be recognized by their large size, rectangular receiver, and operating handle slots in the receiver. They can be fed either from the left side or from the right side. The data below pertain to the heavy-barrel version. These guns can be found mounted on the US M3 tripod, on armored vehicles, or on a modified Soviet DShK 38/46 mount.

CHARACTERISTICS

Caliber -----	.50
Operation -----	Recoil, fully automatic, air cooled
Weight—Gun only-----	84 lb
—Mount (M3) adds-----	44 lb
Length -----	65 in
Sight -----	Front—hooded blade; rear—fully adjustable leaf; AA ring sight can also be encountered
Feeding device-----	Metallic link belt
Effective range-----	1000 m
Rate of fire-----	120 rpm
Ammunition -----	12.7 x 99 cartridges



Soviet 7.62-mm Light Machineguns DP and DPM (Chinese Communist 7.62-mm Light Machinegun Type 53)

The 7.62-mm and DPM are excellent light machineguns. Although they are obsolete in the Soviet Forces, they are widely used in the Communist World and certain other countries. The DPM, with its full pistol grip and recoil spring relocated at the rear of the receiver, is a modernized version of the older DP. These guns are easily identified by their large, flat drum magazines and unique magazine catches that also serve as rear sight guards. Tank versions, the DT and DTM, are similar to the DP and DPM, but they use thicker, small-diameter, 60-round feed drums and folding stocks and lack a barrel jacket. The Chinese Communists copied only the DPM; they called their version the light machinegun Type 53.

CHARACTERISTICS

Caliber -----	7.62 mm
Operation -----	Gas, fully automatic, air cooled
Weight, loaded—DP-----	26.2 lb
—DPM -----	26.9 lb
Length—DP and DPM-----	50 in
—DT and DTM-----	39.8 in
(stock folded)	
Sight -----	Front—adjustable hooded sight; rear—adjustable V-notch
Feeding device-----	47-rd drum magazine
Effective range-----	800 m
Rate of fire-----	80 rpm
Ammunition -----	Soviet, and ChiCom Type 53, 7.62 x 54R cartridges



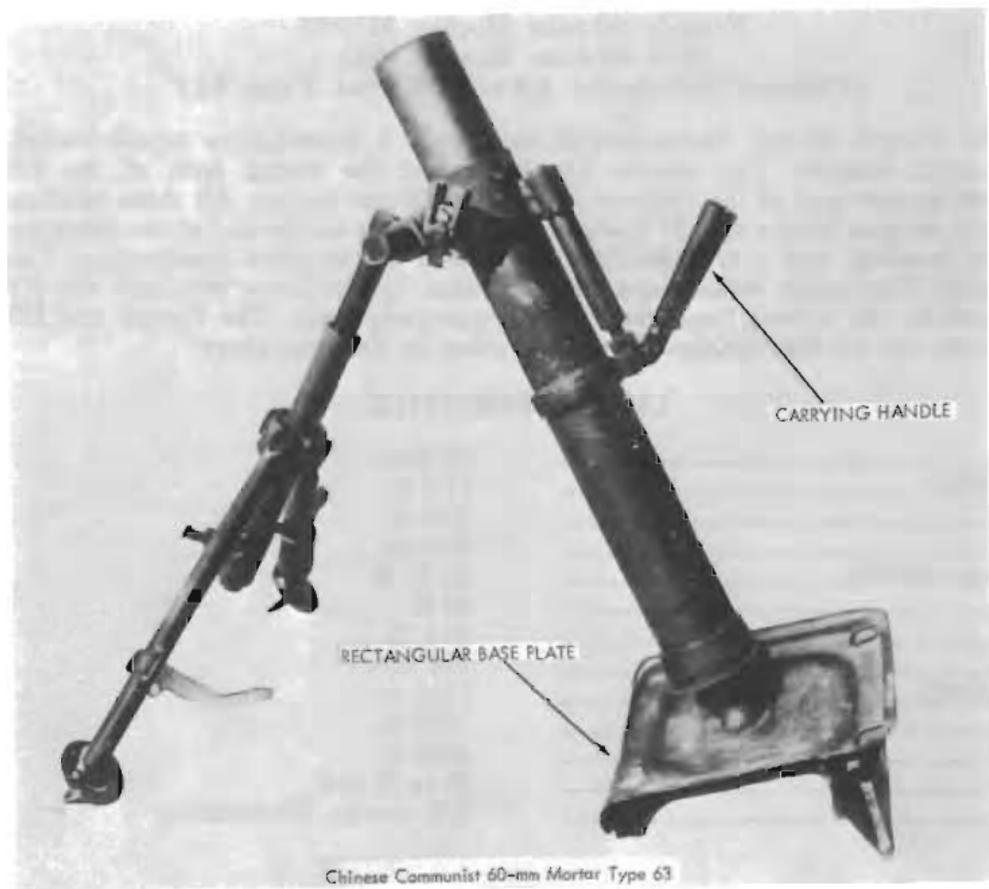
Chinese Nationalist 60-mm Mortar Type 31 (1942)

French 60-mm Mortar M1935
(US 60-mm Mortar M2)
(Chinese Nationalist 60-mm Mortar Type 31)

The French 60-mm Stokes-Brandt mortar is a smoothbore, muzzle-loaded, drop-fired weapon. This mortar has influenced the design both of the US 60-mm mortar and of the Chinese Nationalist 60-mm mortar. All three versions of this weapon have a square baseplate, a handcrank on the end of the elevating screw housing, and a cross-leveling mechanism of two-piece construction. The Chinese Nationalist version can be recognized by the brass feet, and the US version by the folding handcrank on the traversing knob. The French and US versions can be distinguished from each other by their markings.

CHARACTERISTICS

Caliber -----	60 mm
Length of tube—M1935-----	27.5 in
—M2 -----	28.6 in
Type 31-----	26.5 in
Weight, firing position—M1935-----	38.76 lb
—M2 -----	42 lb
—Type 31-----	44.5 lb
Muzzle velocity-----	158 m/s
Maximum range—M1935-----	1760 m
—M2 -----	1820 m
—Type 31-----	1530 m
Rate of fire-----	20 to 35 rpm
Ammunition -----	HE, smoke, illuminating



Chinese Communist 60-mm Mortar Type 63

The Chinese Communist 60-mm Type 63 mortar represents an updated version of the old Type 31. Compared with the latter, the Type 63 is much lighter, has a shorter tube and bipod, a smaller, rectangular base plate, and only one recoil cylinder. This mortar also differs from previous Chinese Communist copies of the US M2 60-mm mortar by the addition of a carrying handle designed to allow it to be carried as a unit, with the bipod and base plate folded under the tube. Although the Type 63 is easier to handle, its performance characteristics are the same as those of the Type 31.

CHARACTERISTICS

Caliber.....	60 mm
Length of tube.....	24 in
Weight, firing position.....	27.31 lb
Muzzle velocity.....	158 m/s
Maximum range.....	1530 m
Rate of fire.....	15 to 20 rpm
Ammunition type.....	HE



U S 81-mm Mortar M1

US 81-mm Mortar M1

The US 81-mm mortar M1 is a conventional, smoothbore, muzzle-loaded, drop-fired weapon. The outstanding recognition features of this mortar exist in the baseplate. The handle has a leather-covered grip, and three sockets receive the base cap ball piece. (See the French 81-mm Mortar M44.)

CHARACTERISTICS

Caliber	81 mm
Length of tube	4.2 ft
Weight, firing position	132 lb
Muzzle velocity	235 m/s
Maximum range	3018 m
Rate of fire	18 to 30 rpm
Ammunition	HE, illuminating, smoke



French 81-mm Mortar M44

French 81-mm Mortar M44

The French 81-mm mortar M44 is a smoothbore, muzzle-loaded, drop-fired weapon. Its distinguishing features are mostly in the baseplate; namely, the large carrying eyes on the back edge of the base plate, the carrying handle with the reinforcing bar at the bottom, and the three ball sockets. (See US 81-mm mortar M1.)

CHARACTERISTICS

Caliber	81 mm
Length of tube.....	3.8 ft
Weight, firing position.....	142.9 lb
Muzzle velocity.....	157 m/s
Maximum range.....	3008 m
Rate of fire.....	18 to 30 rpm
Ammunition	HE, smoke

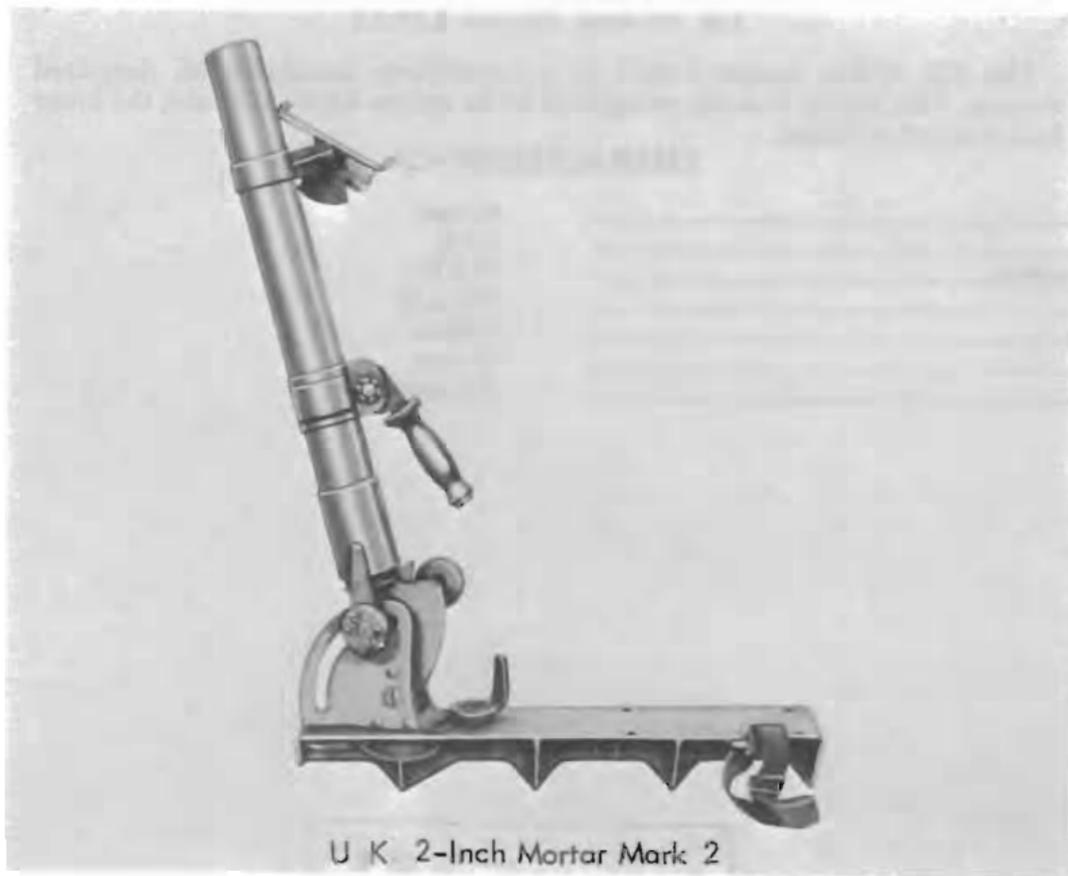


UK 81-mm Mortar L16A1

The UK 81-mm mortar L16A1 is a smoothbore, muzzle-loaded, drop-fired weapon. This mortar is easily recognized by its unique bipod and tube, the lower half of which is finned.

CHARACTERISTICS

Caliber.....	81 mm
Length of tube.....	3.8 ft
Weight, firing position.....	77.6 lb
Muzzle velocity.....	252 m/s
Maximum range.....	4700 m
Rate of fire.....	15 rpm
Ammunition.....	HE, smoke



UK 2-inch Mortar Mark 2

The UK 2-inch mortar Mark 2 is a lightweight, smoothbore, muzzle-loaded, trigger-fired weapon. Identifying features of the Mark 2 are the narrow, rectangular base plate, the carrying handle, the elevating and traversing clamps, and the firing lever.

CHARACTERISTICS

Caliber.....	50 mm
Length of tube.....	2.2 ft
Weight, firing position.....	20 lb
Muzzle velocity.....	79.25 m/s
Maximum range.....	489 m
Rate of fire.....	8 rpm
Ammunition.....	HE, smoke, illuminating



U K 3-Inch Mortar Mark 2

UK 3-inch Mortar Mark 2

The UK 3-inch mortar Mark 2 is a smoothbore, muzzle-loaded, drop-fired weapon. This mortar is readily recognized by the cross-leveling clamp and plate at the top of the bipod. Other distinguishing features are the heavily ribbed base plate and the sight mount, which is located high on the tube yoke.

CHARACTERISTICS

Caliber -----	76 mm nominal; 81 mm actual
Length of tube-----	4 ft
Weight, firing position-----	133 lb
Muzzle velocity-----	192 m/s
Maximum range-----	2560 m
Rate of fire-----	10 rpm
Ammunition -----	HE, smoke



U K 4.2-Inch Mobile Mortar

UK 4.2-inch Mobile Mortar

The UK 4.2-inch mortar is a conventional muzzle-loading, drop-fired, smooth-bore mortar, which utilizes a tripod and a substantial base plate fitted with two pneumatic-tired wheels. The mortar can be recognized by the wheeled base plate; the mortar tube and tripod, which is laid on the base plate in transit; the two lifting bars (or maneuvering bars), which are secured to the base plate in transit; and the Mark 3 tripod with its long front leg.

CHARACTERISTICS

Caliber -----	107 mm
Length of tube -----	5 ft
Weight, firing position -----	950 lb
Muzzle velocity -----	223 m/s
Maximum range -----	3750 m
Rate of fire -----	8 to 10 rpm
Ammunition -----	HE, smoke, chemical



US 4.2-inch Mortar M2

The US mortar M2 is a rifled, muzzle-loaded, drop-fired weapon. The M2 consists of a tube, a base plate, and a standard and is normally transported on a truck or a cart or by two pack animals. This mortar is readily recognized by the two connection rods running from the standard to the base plate. Other identifying features are the elevating wheel, the sliding handles on the base plate, and the exposed shock-absorber springs.

CHARACTERISTICS

Caliber	107 mm
Length of tube.....	4 ft
Weight, firing position.....	330 lb
Muzzle velocity.....	256 m/s
Maximum range.....	4020 m
Rate of fire.....	20 rpm
Ammunition	HE, smoke, chemical



Japanese 90-mm Mortar Type 97

Japanese 90-mm Mortar Type 97

The Japanese mortar Type 97 is a smoothbore, muzzle-loaded, drop-fired weapon. Its most outstanding recognition feature is the base plate, which has three ball sockets that are arranged in step fashion. The base plate also has three handles, one on each side and one in the back. Other identifying characteristics are the wing nut on the left bipod leg and the large handling eye on the breech cap.

CHARACTERISTICS

Caliber	90 mm
Length of tube.....	4 ft
Weight, firing position.....	233 lb
Muzzle velocity.....	226 m/s
Maximum range.....	3645 m
Rate of fire.....	15 rpm (approx)
Ammunition	HE, incendiary



Soviet 82-mm Mortar M1937 (1942-43 Version)
(Chinese Communist 82-mm Mortar Type 53)

**Soviet 82-mm Mortar M1937 (1942-43 Version)
(Chinese Communist 82-mm Mortar Type 53)**

The Soviet 82-mm mortar which has been copied by the Chinese Communists, is a conventional muzzle-loaded, drop-fired, smoothbore weapon. The M1937 consists of three basic components: tube, bipod, and base plate. The outstanding features of this mortar are the base plate, which is circular with a flat surface across the back edge, and the bipod, which has a turnbuckle-type of cross leveling mechanism between the right leg and the elevating screw housing.

CHARACTERISTICS

Caliber.....	82 mm
Length of tube.....	4 ft
Weight, firing position.....	123 lb
Muzzle velocity.....	210 m/s
Maximum range.....	3040 m
Rate of fire.....	25 rpm
Ammunition.....	HE, smoke



Soviet 107-mm Mortar M1938

Soviet 107-mm Mortar M1938

Except for a smaller caliber and a lighter weight, the 107-mm M1938 is quite similar in design to the 120-mm mortars. Recognition features are a long base cap and short shock-absorber cylinders. The M1938 can be towed by vehicle or it can be drawn by animal. For transport over rough terrain this mortar can be broken down into pack loads.

CHARACTERISTICS

Caliber.....	107 mm
Length of tube.....	5.4 ft
Weight—Firing position.....	375 lb
—Traveling position.....	750 lb
Muzzle velocity.....	302 m/s
Maximum range.....	6300 m
Rate of fire.....	Up to 15 rpm
Ammunition.....	HE (light); HE (heavy); smoke; chemical

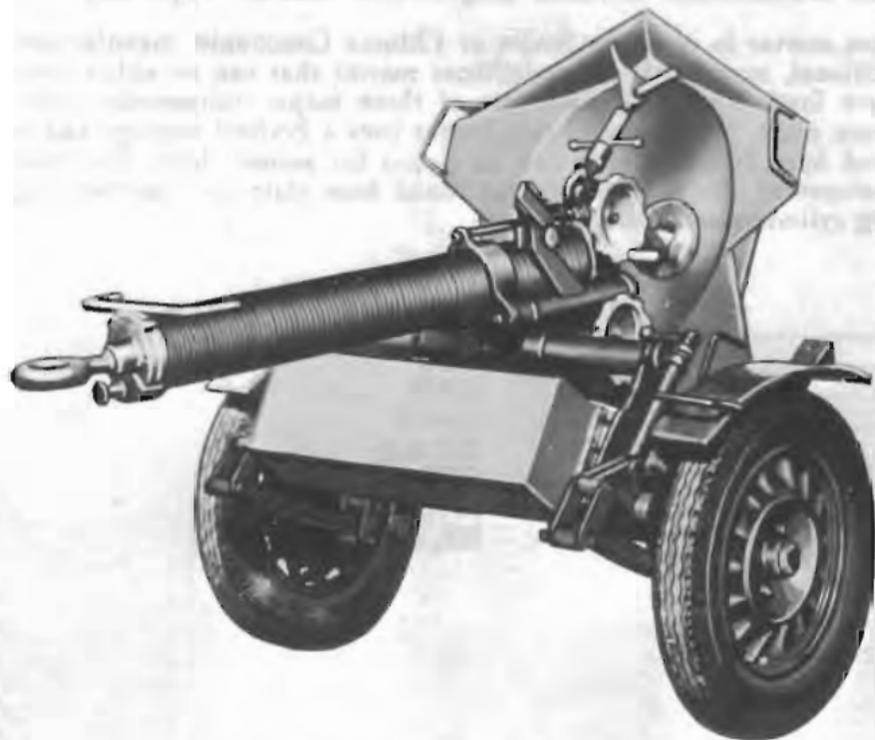


Soviet 120-mm Regimental Mortar M1943
(Chinese Communist 120-mm Regimental Mortar Type 55)

This 120-mm mortar is of either Soviet or Chinese Communist manufacture. It is a conventional, muzzle-loaded, smoothbore mortar that can be either drop fired or trigger fired. The M1943 consists of three major components: tube, bipod, and base plate. For transport this mortar uses a 2-wheel carriage and is normally towed by a vehicle, but it can be rigged for animal draft. The most prominent features of this weapon are the round base plate and the two long shock-absorber cylinders under the tube.

CHARACTERISTICS

Caliber -----	120 mm
Length of tube-----	5.4 ft
Weight—Firing position-----	606 lb
—Traveling position-----	1100 lb
Muzzle velocity-----	272 m/s
Maximum range-----	5700 m
Rate of fire-----	15 rpm
Ammunition -----	HE, smoke, incendiary



French 120-mm Mortar M1951 (Roanne)

French 120-mm Mortar M1951 (Roanne)

The French 120-mm mortar M1951 is a muzzle-loaded, smoothbore weapon that can be fired only from the 2-wheel carriage on which it is transported. The M1951 can be drop fired in the conventional manner or the fire can be controlled. For controlled fire, a muzzle attachment holds the round at the muzzle until a firing lanyard is pulled, releasing the round. Some recognition features are the carriage, the shape of the base plate, the externally threaded tube, and the large elevating and traversing handwheels.

CHARACTERISTICS

Caliber	120 mm
Length of tube.....	5.7 ft
Weight—Firing position.....	705.5 lb
—Traveling position.....	1168 lb
Muzzle velocity.....	290 m/s
Maximum range.....	6700 m
Rate of fire.....	10 rpm
Ammunition	HE (light) ; HE (heavy) ; HEAT



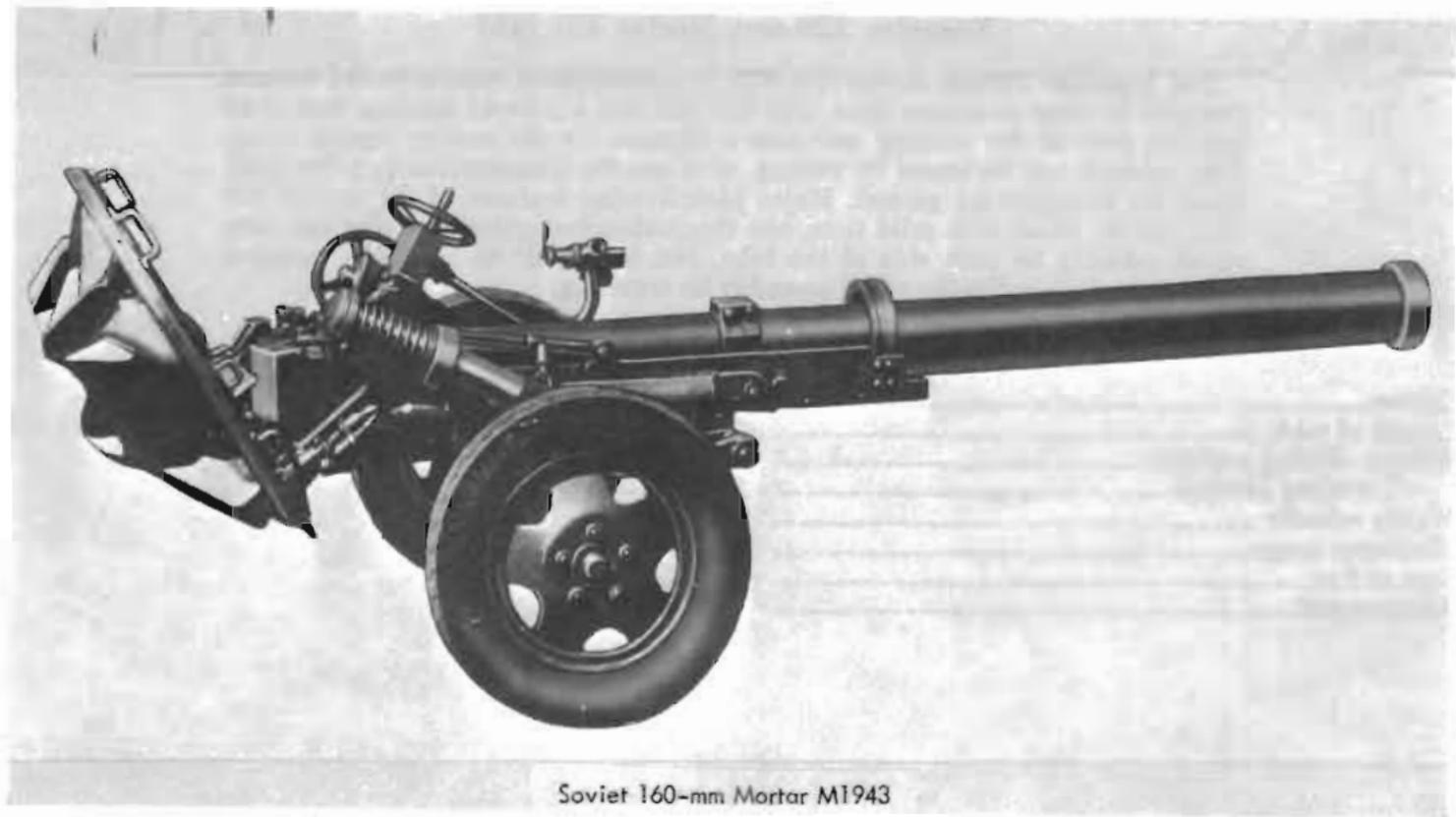
Yugoslav 120-mm Mortar UB M52

Yugoslav 120-mm Mortar UB M52

The Yugoslav 120-mm mortar UB M52 is a smoothbore, muzzle-loaded weapon that can be drop or trigger fired. The UB M52 has a 2-wheel carriage that is an integral part of the weapon and also a support for the mortar during firing. This weapon can be towed by vehicle, or it can be disassembled into five pack loads for transport by animal. Major identification features of the mortar UB M52 are its wheel with solid tires, two shock-absorber cylinders under the tube, recoil cylinder on each side of the tube, and base plate with tubular brackets that can be fastened to the wheel assembly for traveling.

CHARACTERISTICS

Caliber.....	120 mm
Length of tube.....	4.2 ft
Weight—Firing position.....	853 lb
—Traveling position.....	882 lb
Muzzle velocity.....	300 m/s
Maximum range.....	6300 m
Rate of fire.....	25 rpm
Ammunition.....	HE, smoke



Soviet 160-mm Mortar M1943

Soviet 160-mm Mortar M1943

The M1943 mortar is breech loaded and trigger fired. Recognition features are the straight front edge on the base plate; large spring and cylinder on the right side of the tube, just above the wheel; elevating and traversing hand wheels; permanently attached wheels; and the cradle with recoil mechanism under the barrel.

CHARACTERISTICS

Caliber.....	160 mm
Length of tube.....	9.5 ft
Weight—Firing position.....	2380 lb
—Traveling position.....	2480 lb
Muzzle velocity.....	305 m/s
Maximum range.....	5000 m
Rate of fire.....	3 rpm
Ammunition.....	HE



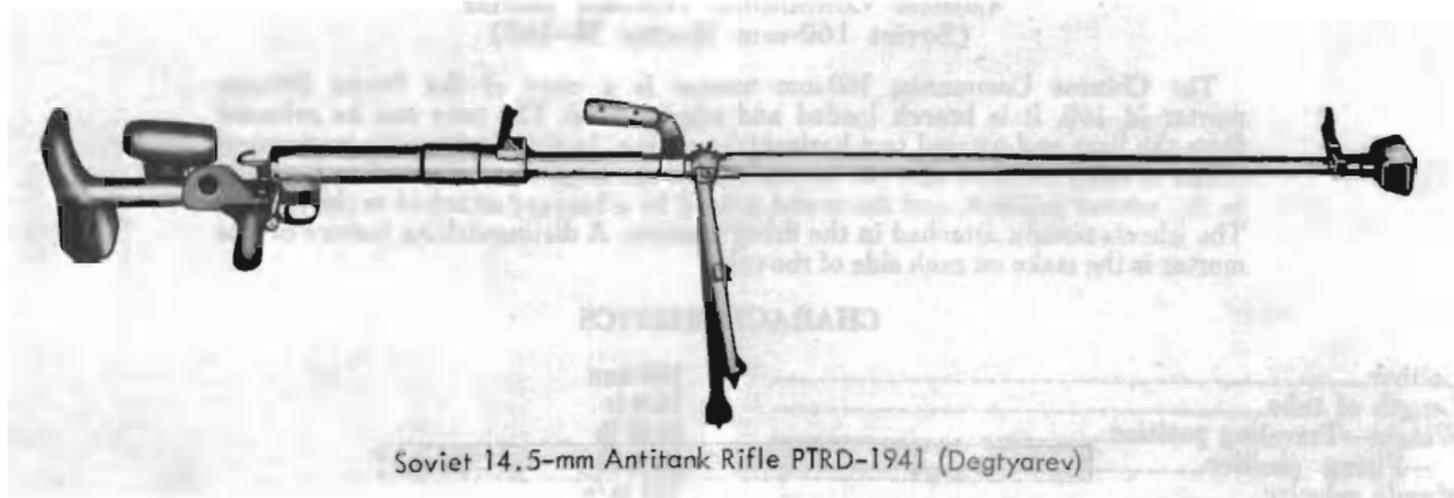
Chinese Communist 160-mm Mortar
(Soviet 160-mm Mortar M-160)

Chinese Communist 160-mm Mortar (Soviet 160-mm Mortar M-160)

The Chinese Communist 160-mm mortar is a copy of the Soviet 160-mm mortar M-160. It is breech loaded and trigger fired. The tube can be released from the base and rotated to a horizontal position. In this position the tray-served round is hand rammed into the breech end of the tube. The tube is then returned to the normal position, and the round is fired by a lanyard attached to the trigger. The wheels remain attached in the firing position. A distinguishing feature of this mortar is the stake on each side of the tube.

CHARACTERISTICS

Caliber.....	160 mm
Length of tube.....	14.9 ft
Weight—Traveling position.....	3240 lb
—Firing position.....	2866 lb
Muzzle velocity.....	343 m/s
Maximum range.....	8040 m
Rate of fire.....	3 rpm
Ammunition.....	HE



Soviet 14.5-mm Antitank Rifle PTRD-1941 (Degtyarev)

Soviet 14.5-mm Antitank Rifle PTRD-1941 (Degtyarev)

The antitank rifle PTRD-1941 is a bolt-action, single-shot, self-ejecting weapon. The usefulness of this weapon against modern tanks is extremely limited, although it still can be employed against lightly armored vehicles and pillboxes, as well as in street fighting. The muzzle brake and bipod mount of this weapon are similar to those of the PTRS-1941, but can be distinguished from the latter by the absence of a gas cylinder, use of a manually operated bolt action, and presence of a tubular metal shoulder stock in place of the wooden stock. Ammunition used is identical with that of the PTRS-1941.

CHARACTERISTICS

Caliber.....	14.5 mm
Weight.....	38.36 lb
Length, overall.....	78.74 in
Muzzle velocity.....	1000 m/s
Feeding device.....	Single shot
Practical rate of fire.....	8 to 10 rpm
Armor penetration (BS-41 API).....	1.26 in at 0° at 500 m; 0.787 in at 0° at 1000 m
Ammunition.....	Soviet, and ChiCom Type 56, 14.5 x 144 cartridges



Soviet 14.5-mm Antitank Rifle PTRS-1941 (Simonov)

Soviet 14.5-mm Antitank Rifle PTRS-1941 (Simonov)

The antitank rifle PTRS-1941 is a semiautomatic, magazine-fed, gas-operated weapon. Although the usefulness of the PTRS-1941 against modern tanks is extremely limited, it still can be employed against lightly armored vehicles and pillboxes, as well as in street fighting. Apart from the 5-round box magazine, which protrudes down from the action, the PTRS-1941 can be readily recognized by the long gas cylinder on top of the barrel. A single-baffle muzzle brake gives the muzzle an unusual square appearance. For transportation, this weapon breaks down into two loads, the barrel group being detachable from the other components.

CHARACTERISTICS

Caliber -----	14.5 mm
Weight -----	48.08 lb
Length, overall -----	84.25 in
Muzzle velocity -----	1000 m/s
Feeding device -----	5-rd box magazine
Practical rate of fire -----	15 rpm
Armor penetration (BS-41 API) -----	1.26 in at 0° at 500 m; 0.787 in at 0° at 1000 m
Ammunition -----	Soviet, and ChiCom Type 56, 14.5 x 114 cartridges



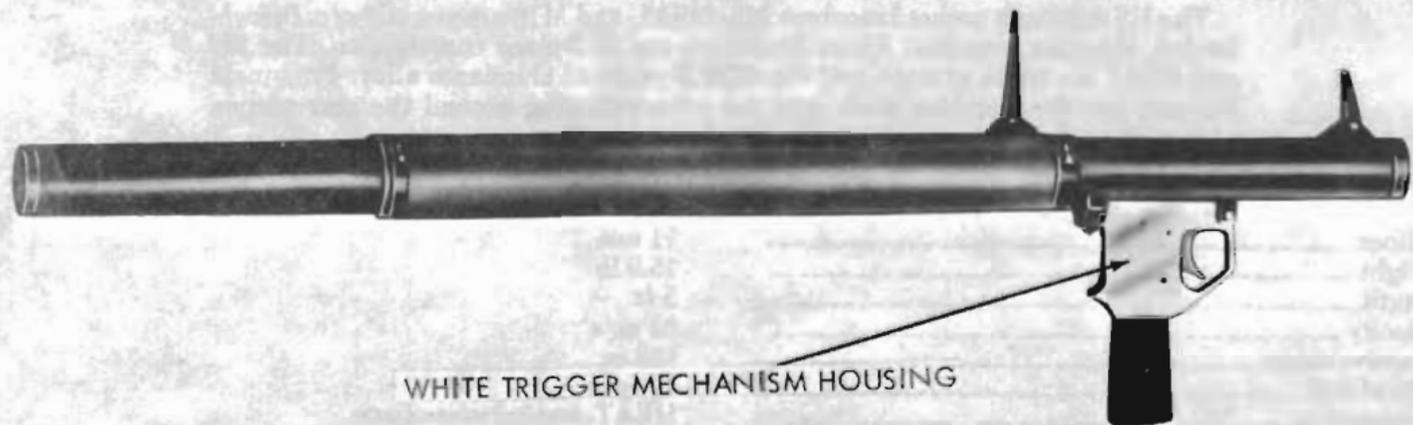
U S. 2.36-Inch Rocket Launchers M9A1 and M18

US 2.35-inch Rocket Launchers M9, M9A1, and M18

The US 2.36-inch rocket launchers M9, M9A1, and M18 are smoothbore, breech-loaded, shoulder weapons. These launchers are of 2-piece construction. The M9 and M9A1 are made of steel, and the M18 is made of aluminum alloy. Prominent features are the shoulder stock and the wire wrapping around the rear section of the tube.

CHARACTERISTICS

Caliber	71 mm
Weight	15.9 lb
Length	5 ft
Velocity	83 m/s
Effective range.....	100 m
Rate of fire.....	10 rpm
Ammunition	HEAT, smoke, incendiary
Armor penetration.....	4.7 in at 0°



WHITE TRIGGER MECHANISM HOUSING

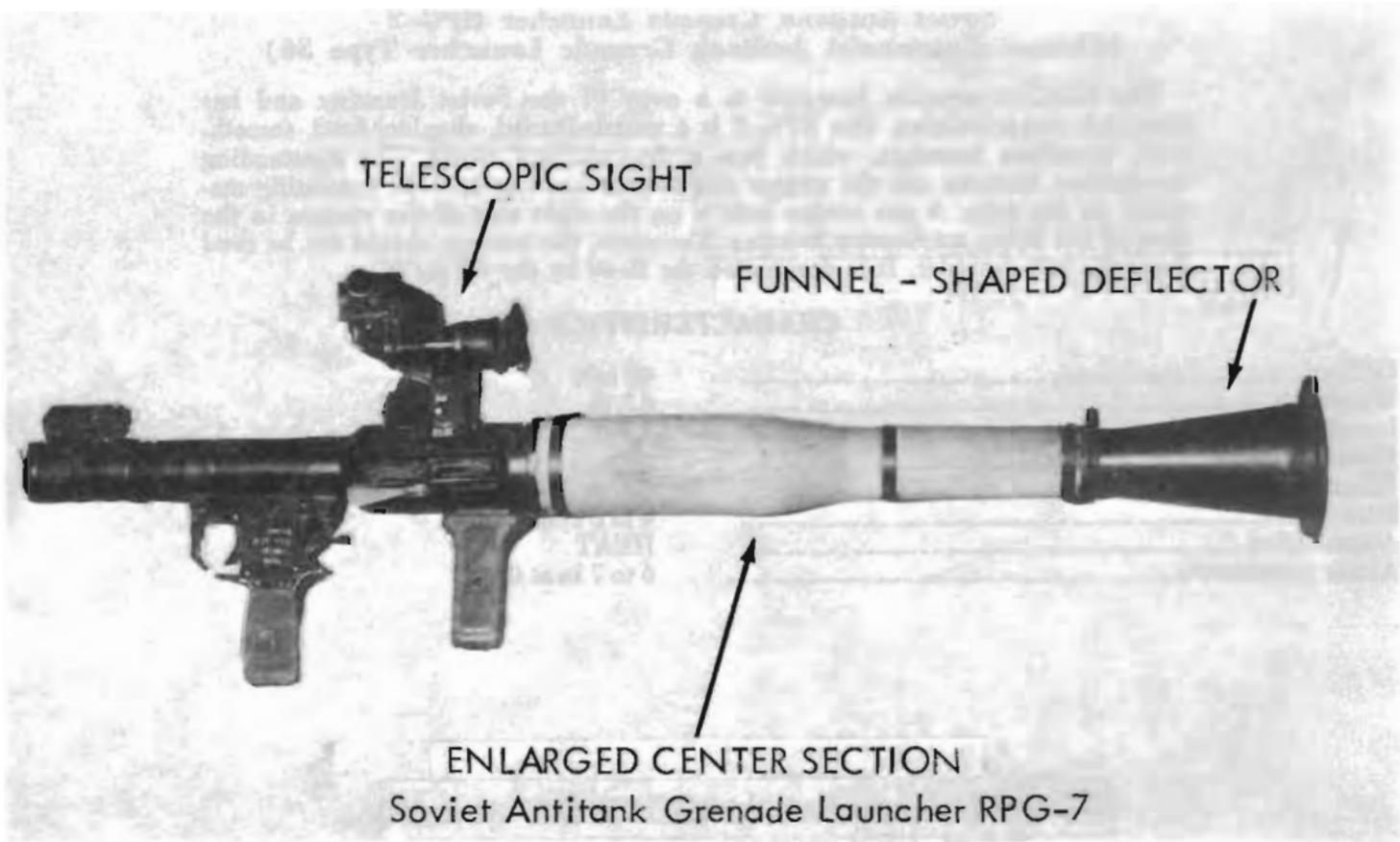
Soviet Antitank Grenade Launcher RPG-2
(Chinese Communist Antitank Grenade Launcher Type 56)
(North Vietnamese Antitank Grenade Launcher B-40)

Soviet Antitank Grenade Launcher RPG-2
(Chinese Communist Antitank Grenade Launcher Type 56)

The ChiCom grenade launcher is a copy of the Soviet launcher and has identical characteristics. The RPG-2 is a muzzle-loaded, shoulder-fired, smooth-bore, recoilless launcher, which fires a fin-stabilized round. The outstanding recognition features are the trigger mechanism housing and the insulating material on the tube. A gas escape hole is on the right side of the weapon in the area of the firing mechanism housing. Therefore, the weapon should not be fired from the left shoulder. It is designated the B-40 by the NVA/VC.

CHARACTERISTICS

Caliber.....	40 mm
Weight.....	6.3 lb
Length, overall.....	3.2 ft
Muzzle velocity.....	84 m/s
Effective range.....	100 m
Rate of fire.....	4 to 6 rpm
Ammunition.....	HEAT
Armor penetration.....	6 to 7 in at 0°



Soviet Antitank Grenade Launcher RPG-7

The Soviet RPG-7, a recoilless, shoulder-fired, muzzle-loaded, reloadable anti-tank grenade launcher, is patterned after the Soviet RPG-2. Numerous improvements have been incorporated: The center section of the tube has been enlarged to provide greater thrust for the projectile; a large, funnel-shaped deflector has been located at the rear of the tube; and a detachable telescopic sight has been added.

CHARACTERISTICS

Caliber of tube.....	40 mm
Caliber of projectile.....	85 mm
Weight.....	14.5 lb
Length.....	37.5 in
Muzzle velocity.....	120 m/s
Effective range.....	300 to 500 m
Rate of fire.....	4 to 6 rpm
Ammunition.....	Rocket-assisted HEAT grenade
Armor penetration.....	13 to 14 in of steel armor at 0° obliquity



Czechoslovak Antitank Grenade Launcher P-27

Czechoslovak Antitank Grenade Launcher P-27

The Czechoslovak antitank grenade launcher P-27 is a smoothbore, recoilless weapon that fires a fin-stabilized projectile. The projectile is loaded in the muzzle and has a warhead that is 120 mm in diameter that protrudes from the tube. It is ignited by an electromagneto firing mechanism, which is actuated by the trigger. When the P-27 launcher is fired, a stream of iron filings is discharged from the rear of the tube. Major identification features are the bipod, which unfolds and forms an inverted "Y"; the insulation on the tube; the folding sights; and the firing mechanism with its two electrical terminals in front of the trigger guard.

CHARACTERISTICS

Caliber—Tube	45 mm
—Warhead	120 mm
Weight of launcher	14.09 lb
Length of tube	40.55 in
Muzzle velocity	140 m/s
Effective range—Moving targets	73 m
—Stationary targets	100 m
Rate of fire	4 rpm
Ammunition	HEAT
Armor penetration	6 to 7 in at 0°



North Vietnamese Antitank Grenade Launcher B-50

The North Vietnamese 50-mm B-50 is an enlarged copy of the Soviet 40-mm RPG-2. It is a smoothbore, muzzle-loaded, recoilless weapon that can be fired from the shoulder or from the ground. For ground firing, an adjustable monopod in front of the percussion-type trigger mechanism and a folding bipod at the rear are attached. The B-50 should not be fired from the left shoulder because of a gas escape hole that is located on the right side of the weapon.

CHARACTERISTICS

Caliber	50 mm
Weight	24.7 lb
Length, overall.....	51.95 in
Muzzle velocity.....	87 m/s
Effective range.....	100 m
Rate of fire.....	4 to 5 rpm
Ammunition type.....	HEAT
Armor penetration.....	12 in at 0°



U S 3.5-Inch Rocket Launcher M20

US 3.5-inch Rocket Launcher M20

The US 3.5-inch rocket launcher M20 is a smoothbore, breech-loaded, shoulder weapon. It has a 2-piece aluminum alloy tube and a carrying sling attached to the trigger housing grip. Other prominent features are the shoulder stock and the flanged ends.

CHARACTERISTICS

Caliber.....	87 mm
Weight.....	13 lb
Length, firing position.....	5 ft
Velocity.....	147 m/s
Effective range.....	183 m
Rate of fire.....	10 rpm
Ammunition.....	HEAT, WP
Armor penetration.....	10.75 in at 0°



Chinese Communist 87-mm Rocket Launcher Type 51 (1951)

Chinese Communist 87-mm Rocket Launcher Type 51 (1951)

The Chinese Communist 87-mm antitank rocket launcher Type 51 was copied from the US 3.5-inch rocket launcher M20. The differences between the Chinese Communist version and the US weapon are: the tube of the Chinese weapon is of 1-piece construction and the flared muzzle-flash deflector on the front of the Chinese weapon is perforated with one-quarter-inch holes on the right half. In addition, the Type 51 has a battery firing mechanism, is 7 pounds heavier than the US version, and is fitted with a bipod, which can be folded forward and locked alongside the tube.

CHARACTERISTICS

Caliber.....	87 mm
Weight.....	21 lb
Length, firing position.....	5 ft
Velocity.....	102 m/s
Effective range.....	91 to 183 m
Rate of fire.....	2 to 4 rpm
Ammunition.....	HEAT
Armor penetration.....	4 to 5 in at 45°



US 57-mm Recoilless Rifle M18A1

The US 57-mm recoilless rifle M18A1 is a lightweight portable weapon designed to be fired either from the shoulder or from a tripod. The most prominent differences between the M18A1 and the T15E16 (see Chinese Communist Type 36) are the breech-operating handle and the safety handle. Other identifying features of this weapon are the folding bipod, the telescopic monopod, and the flexible firing linkage connecting the trigger to the breech.

CHARACTERISTICS

Caliber.....	57 mm
Weight.....	40 lb
Length.....	5 ft
Muzzle velocity.....	365 m/s
Maximum horizontal range.....	4500 m
Rate of fire.....	15 rpm
Ammunition.....	HE, HEAT, WP, canister
Armor penetration.....	3.4 in at 0°



Chinese Communist 57-mm Recoilless Rifle Type 36

The Chinese Communist 57-mm recoilless rifle Type 36 is a copy of the US recoilless rifle T15E16, which is an improved version of the US M18. The Type 36 can be fired either from the shoulder, from its monopod, or from a tripod. The outstanding identifying features of this weapon are the long, cylindrical monopod below the telescopic sight, the two protruding handles at the breech end, and the peculiarly shaped tripod.

CHARACTERISTICS

Caliber.....	57 mm
Weight—Rifle.....	52.25 lb
—Tripod.....	26 lb
Length.....	61.5 in
Maximum horizontal range.....	4375 m
Muzzle velocity.....	340 m/s
Rate of fire.....	5 rpm
Ammunition.....	HEAT, AP, canister
Armor penetration.....	2.50 to 2.75 in at 0°