





The Heavy Weapons Handbook finishes what Infantry Weapons of the World started, by rating over 170 rocket launchers, grenade launchers, antitank and antiaircraft missile launchers, towed field, antitank, and antiaircraft guns, grenades, mines and other support weapons for Twilight: 2000. Infantry units armed only with rifles and machineguns are only half equipped, the Heavy Weapons Handbook provides the rest of what you'll need.

Weapons covered range from man-portable missile launchers such as the LRAC F1, the Eryx, and the venerable American bazooka, antitank missiles ranging from the aging SS-11 sufrace-to-surface missile to the FOG-M (Fiber Optic Guided Missile), and towed antiaircraft guns from the Swiss 20mm Oerlikon to the Soviet 130mm AA gun. Antiaircraft missiles such as Stinger, Blowpipe, and Mistral are also included. The **Heavy Weapons Handbook** also includes antipersonnel and antitank mines, and recoilless rifles ranging in size from the US M18A1 57mm to the Soviet B-11 107mm.

Each weapon is illustrated, and each entry contains all information needed for use in the **Twilight: 2000** game system, including full combat statistics, weight, price, and availability ratings both for the weapon and its ammunition.

The weapons covered in the Heavy Weapons Handbook are usable with Twilight: 2000, but also with Merc: 2000, Cadillacs and Dinosaurs, and Dark Conspiracy.





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# Heavy Weapons Handbook

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# **INTRODUCTION**

This book is restricted to man-portable and towed weapons, plus a few exceptions. Ammunition specs are included on the cards with the weapons using them.

Although primarily intended for players and referees of **Twilight: 2000** and **Merc: 2000**, most ratings in this handbook can also be used with **Cadillacs and Dinosaurs**, **Dark Conspiracy** or any other game with the same basic system. A few weapons are specific to one particular game background and are not available to players of other games (such as the products of the Wojo factory in Krakow, which are specific to **Twilight: 2000**).

### WEAPON ENTRIES

Crew-served weapons with crews of more than two are given crew ratings. Weapons with separate ammunition have the weight and price of such ammunition included with the basic weapon chart, except where repetition would take up too much space. The same general notes from the basic game apply to the weapon charts here: Penetration is equal to the listed value plus 2D6, and HEAT round penetrations are halved versus compound and reactive armor. Also, the same abbreviations apply.

### WEAPON TYPES

All weapon types are as defined in the **Twllight: 2000** basic rules set. All require Heavy Weapons skill to fire, except grenade launchers, which are fired using Small Arms (Rifle) or Heavy Weapons skill, whichever is greater.

### **RULES ADDITIONS**

Two modifications to the damage rules have proven useful:

Concussion: Damage from explosive concussion is rolled once, but the amount is applied to each hit location. For NPCs, the damage is applied only once since NPCs do not have hit locations.

**Explosive Rounds:** Characters subjected to a direct hit by an explosive round (where the round lands in the same square) suffer explosive damage in addition to normal concussion and fragmentation damage. A random hit location suffers XD6 damage, where X equals the round's Penetration value or its Concussion value times 2, whichever is greater. This rule enables characters to be shredded by LAWs, mortar rounds, etc.

### **TYPES OF ROUNDS**

Each weapon can fire one or more types.

APDU (Armor Piercing Depleted Uranium): Essentially the same as an APFSDS (see below) round, but with a penetrator made of depleted uranium. The density and hardness of the DU penetrator considerably increases the ability of the round to penetrate armor. Depleted uranium is spent reactor fuel and is not dangerously radioactive.

APERS (Antipersonnel): A mine or type of round intended primarily for use against enemy soldiers. Specific designs differ.

APFSDS (Armor Piercing Fin Stabilized Discarding Sabot): The round consists of a subcaliber, finned penetrator (usually made of tungsten), surrounded by a full-bore, aluminum sabot (pronounced SAY-bow) in several pieces. Once the round leaves the barrel, the sabot falls away. The combination of a large propelling charge and a small-diameter penetrator results in very high muzzle velocity and armor penetration.

API or AP-I (Armor Piercing Incendiary): A nearly solid round containing a small amount of incendiary material in the base. Primarily used against armored vehicles or aircraft in the hopes of igniting fuel or other flammables.

APT or AP-T (Armor Piercing Tracer): An AP round with a tracer pellet (a compound that glows brightly when ignited by the heat of firing) in the base of the round to enable gunners and others to trace the path of their bullets. When fired, tracer rounds appear to be bright lines due to retinal imprinting.

CHEM (Chemical): A hollow shell which burns and releases a gas or smoke upon landing. The most common chemical is hexachloroethane (HC) smoke, and all prices listed are based on that round. Rounds may also be filled with irritant gas (double price), blood agent poisonous gas (triple price) or nerve gas (quadruple price). In all cases, the chemical cloud covers an area the width of the burst area and four times as long as the burst area. The cloud originates at the impact point of the round and stretches downwind.

CLGP (Cannon Launched Gulded Projectile): A high-explosive round which homes on the reflection of a laser target designator. If a laser target designator is aimed at a vehicle or building, the round has a 90% chance of a direct hit. FASCAM (Field Artillery Scatterable Mines): A hollow round containing antitank and antipersonnel mines. The round bursts in the air and scatters mines over an area 100 meters in radius from the burst point.

HE (High Explosive): A high-explosive round is a hollow casing containing an explosive compound. Set to detonate on impact or at a selected altitude, it is useful against infantry and some larger targets. It is the least expensive (and thus most common) indirect fire round used.

HEAT (High Explosive Antitank): A hollow shell filled with explosive compound. An inverted cone in the nose of the shell directs the explosive force forward into a high-energy jet of super-heated gas and molten metal, reducing the effectiveness of the round against soft targets but vastly increasing it against armor.

HEDP (High Explosive Dual Purpose): A hollow round containing an explosive compound filler with a shaped charge director in the nose to provide the round with an enhanced armor penetrating capability.

HESH (High Explosive Squash Head): A round consisting of plastic explosive, designed to flatten against the outside of an armored vehicle and detonate, causing fragments to break off inside the vehicle (a process known as spalling). This round is also known as HEP (high explosive plastique) or or HEP-T (high explosive plastique tracer).

HET or HE-T (High Explosive Tracer): An HE round with a tracer pellet in its base (see APT, above, for an explanation).

ICM (Improved Conventional Munitions): A hollow round filled with grenades. The round bursts in the air and scatters grenades over a large area. It is very effective against infantry.

ICM-DP (Improved Conventional Munitions, Dual Purpose): Similar to ICM, the ICM-DP round contains shaped charge grenades which have an improved effectiveness against armored targets, provided they achieve a direct hit.

**ILLUM (Illumination):** A hollow round containing a parachute flare which illuminates the area defined by the round's burst radius for two combat turns (one minute).

**Powder Charges:** Most artillery uses a fixed round which consists of a projectile and a brass casing with propellant. Some fire a round consisting of a projectile and a separate powder charge. One powder charge is consumed for each projectile fired.

WP (White Phosphorus): A hollow round filled with white phosphorus. Upon detonation, it scatters burning white phosphorus throughout its burst radius. WP rounds also generate thick white smoke. GDW



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Eryx	Турө	Rld	Max. Rng	Damage	Pen
Eryx: This is a French-built, wire-guided, short-range, man- portable antitank missile system designed for use in urban areas (hence the extremely short range). The Eryx was adopted in the early 1990s by the French Army and was sold extensively to other nations as well. The system's simple construction and relatively low price have made it very popu- lar with smaller armies and mercenary units. <i>Missile Wt</i> : 11 kg <i>Launcher Wt</i> : 14.4 kg <i>Twilight: 2000 Missile Price:</i> \$900 (R/S) <i>Merc: 2000 Missile Price:</i> \$750 (—/S) <i>Twilight: 2000 Launcher Price:</i> \$1500 (R/S) <i>Merc: 2000 Launcher Price:</i> \$1000 (—/S)	Егух	2	600	C:12, B:12	60C
		3			

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# **LAW 80**

LAW 80: The replacement for the M72 LAW in British service, the LAW 80 is a 94mm, disposable antitank rocket launcher. While it is quite a bit heavier than the M72, it has considerably improved performance.

Wt: 9.5 kg Twilight: 2000 Price: \$300 (R/---) Merc: 2000 Price: \$250 (---/C)

	Турө	ROF	Rld	Rng	Round	Damage	Pen
	LAW 80	1		125	HEAT	C:6, B:4	100C
in British ser- ntitank rocket ne M72, it has	*Single-	shot dis	posab	ole. Car	not be relo	aded.	
P							





### M12 SMAW ROF RId Туре Rng Round Damage Pen M12 SMAW 2 100 HEAT C:4, B:4 55C M12 SMAW: A shoulder-fired "bunkerbuster" issued to US 125 HE C:12, B:12 5C Marine troops, the M12 SMAW was never formally adopted by the US Army. Ammo: 82mm SMAW (HE or HEAT) Rocket Wt: 0.2 kg, 7 kg per case of six Launcher Wt: 3.5 kg Twilight: 2000 Rocket Price (HE and HEAT): \$75 each, \$350 per case (S/---) Merc: 2000 Rocket Price (HE and HEAT): \$35 each, \$180 per case (-/S) Twilight: 2000 Launcher Price: \$3000 (R/R) Merc: 2000 Launcher Price: \$650 (-/C) Туре ROF Rld Rng Round Damage Pen M20A1 2 HEAT 25 C:3, B:4 55C

M20A1 3.5" Bazooka M20A1 3.5" Bazooka: The Bazooka is a rocket launcher

developed by the United States during WWII. Field experience showed that the original design was not large enough to penetrate the armor of some of the larger German tanks. so the diameter was expanded to 3.5" (8.9 centimeters). No longer in use by the US Army, the Bazooka is still found in the arsenals of other nations.

Crew: 2 Rocket Wt: 2 kg Launcher Wt: 4 kg Twilight: 2000 Rocket Price: \$175 (S/S) Merc: 2000 Rocket Price: \$100 (-/S) Twilight: 2000 Launcher Price: \$1050 (S/S) Merc: 2000 Launcher Price: \$750 (-/S)

The word "Bazooka" is taken from a novelty musical instrument played by an American radio comedian in the early 1940s. The round was developed from a prototype antitank hollow charge hand grenade developed in 1939, with a rocket motor attached.



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# **M72 LAW**

M72 LAW: The M72 light antitank weapon (LAW) is a 66mm, disposable antitank rocket launcher. It is the standard light antitank weapon with the United States and many other nations.

Wt: 2 kg Twilight: 2000 Price: \$180 (S/R) Merc: 2000 Price: \$260 (-/V)

Турө	ROF	Rld	Rng	Round	Damage	Pen
M72 LAW	4	*	50	HEAT	C:3, B:4	55C







Турө

RPG-7

ROF

1

Rld

1

Rng

50

Round

HEAT

Damage

C:4, B:4

Pen

55C



**RPG-7:** The RPG-7 (*Reaktivniy Protivotankoniy Granatomet-7* or rocket antitank grenade launcher-7) is the precursor to the RPG-16 and is still found in service in various armies around the world. Cheap and easily manufactured, the RPG series all use fin-stabilized rocket projectiles with HEAT warheads, loaded into the front end of the tubular launcher. The rockets' fins unfold in flight.

Rocket Wt: 3 kg, 10 kg per case of three Launcher Wt: 6 kg

Twilight: 2000 Rocket Price: \$45 each, \$110 per case (S/C)

Merc: 2000 Rocket Price: \$30 each, \$85 per case (—/C) Twilight: 2000 Launcher Price: \$800 (S/C) Merc: 2000 Launcher Price: \$500 (—/C)





### Round Damage Pen ROF RId Rng **RPG-18 and RPG-22** Туре RPG-18 75 HEAT C:4, B:4 60C 1 60C HEAT C:4, B:4 RPG-18 and RPG-22: These are Warsaw Pact dispos-RPG-22 1 80 able antitank rocket launchers, normally issued only to \*Single-shot disposable. Cannot be reloaded. heliborne and airborne troops. The RPG-18 is copied from the US M72 LAW, while the RPG-22 is an improved version of the RPG-18. Wt: 3 kg RPG-18 Twillght: 2000 Price: \$1000 (S/C) Merc: 2000 Price: \$250 (--/C) RPG-22 Twilight: 2000 Price: \$1100 (R/S) Merc: 2000 Price: \$350(-/S) Damage ROF Rld Rng Round Pen Турө **RPG-27** HEAT C:4, B:4 RPG-27 2 60 45C 1 RPG-27: A Czech variant of the RPG series, the RPG-27 is still manufactured by the Skoda Works and is exported worldwide. Rocket Wt: 3.8 kg Launcher Wt: 3.8 kg Twilight: 2000 Rocket Price: \$50 (R/S) Merc: 2000 Rocket Price: \$35 (-/R) Twilight: 2000 Launcher Price: \$1050(R/S) Merc: 2000 Launcher Price: \$500 (--/S)



# RPG-75

**RPG-75:** The RPG-75 is a Czech-designed and -built disposable antitank rocket launcher. This weapon is manufactured in larger quantities than the RPG-22 and is thus more readily available.

Wt: 4 kg Twilight: 2000 Price: \$350 (—/R) Merc: 2000 Price: \$300 (—/S)

	Турө	ROF	Rld	Rng	Round	Damage	Pen
	RPG-75	1		100	HEAT	C:4, B:4	55C
d -built dis- s manufac- s thus more	*Single-	shot dis	posab	e. Car	nnot be relo	aded.	
						ß	
		1					
		in the second se		υ			

Type 69	Туре	ROF	Rld		Round	Damage	Pen
Type 69: The Type 69 is a Chinese-made, modified copy f the Soviet RPG-7 rocket launcher. Rocket Wt: 3 kg, 10 kg per case of three Launcher Wt: 6 kg	Туре 69	1	1	50	HEAT	C:4, B:4	60C
Twilight: 2000 Rocket Price: \$40 each, \$100 per case							
Merc: 2000 Rocket Price: \$30 each, \$85 per case (—/C) Twilight: 2000 Launcher Price: \$750 (S/C) Merc: 2000 Launcher Price: \$450 (—/C)							
					Contraction of Contraction		

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# AT-3 "Sagger"

AT-3 "Sagger": Long since displaced in Soviet service by more modern weapons, the AT-3 Sagger continues in service in several other armies. The missile/launcher system is connected to the guidance/control system by a 30-meter cable.

Ammo: AT-3 "Sagger" Missile Wt: 11 kg Launcher Wt: 15 kg Twllight: 2000 Missile Price: \$1200 (R/S) Merc: 2000 Missile Price: \$900 (—/C) Twilight: 2000 Launcher Price: \$6000 (R/S) Merc: 2000 Launcher Price: \$4500 (—/C)

,	Туре	Rld	Max. Rng	Damage	Pen
Soviet service ontinues in ser- icher system is by a 30-meter	AT-3 "Sagger"	2	3000	C:6, B:4	75C
s)		C			2
	F				



# AT-4 "Spigot"

AT-4 "Spigot": A Soviet-designed, man-portable missile launcher, the AT-4 is fired from an integral tripod. The missile is wire guided, and the gunner must continue to aim at the target for the entire flight of the missile.

Ammo: AT-4 "Spigot" Missile Wt: 7 kg Launcher Wt: 5 kg **Twilight: 2000** Missile Price: \$750 (R/S) Merc: 2000 Missile Price: \$500 (—/C) **Twilight: 2000** Launcher Price: \$3000 (S/C) Merc: 2000 Launcher Price: \$7000 (—/C)











# FOG-M

FOG-M: The FOG-M (fiber optic guided missile) is a dualfunction antitank and antihelicopter televisually guided missile which uses a fiber optic data link to a remote control station. Other than increased range, treat this as a normal antitank guided missile per the rule on page 213 of Twilight: 2000. The manpack launcher fires one missile; the vehiclemounted version shown here carries six, although the gunner can control only one at a time. Characteristics for the vehicle-mounted launcher are the same as for the standard Hummer, except that the launcher replaces the rear passenger compartment, and all cargo hits count as hits on the launcher.

### Missile Wt: 38 kg

Manpack Launcher Wt:26 kg (includes guidance controls) Twilight: 2000 Missile Price: \$6000 (--/--) Merc: 2000 Missile Price: \$7500 (--/R) Twilight: 2000 Manpack Launcher Price: \$12,000 (--/--) Merc: 2000 Manpack Launcher Price: \$16,000 (--/R)



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# **MILAN II and MILAN II-T**

MILAN II and MILAN II-T: These missile launchers fire the MILAN II and MILAN II-T antitank missiles. The MILAN II-T is an overhead attack weapon like the Tank Breaker.

Launcher Wt: 17 kg

Twilight: 2000 Launcher Price: \$6000 (R/S) Merc: 2000 Launcher Price: \$12,000 (--/C)

### MILAN II

Missile Wt: 7 kg Twllight: 2000 Missile Price: \$3000 (C/S) Merc: 2000 Missile Price: \$8000 (—/C)

### MILAN II-T

Missile Wt: 8 kg Twilight: 2000 Missile Price: \$4500 (C/S) Merc: 2000 Missile Price: \$9000 (—/C)

	Туре	Rld	Max. Rng	Damage	Pen
	MILAN II	3	2000	C:12, B:12	145C
-	MILAN II-T	3	2000	C:12, B:12	145C
		K			





RBS-56 BILL

Pen

30C

# **RBS-56 BILL**

**RBS-56 BILL:** The Swedish-designed RBS-56 BILL, a wire-guided antitank missile, is one of the earliest of the overhead attack missiles.

Missile Wt: 20.5 kg Launcher Wt: 15.5 kg Twilight: 2000 Missile Price: \$6000 (S/R) Merc: 2000 Missile Price: \$4500 (—/C) Twilight: 2000 Launcher Price: \$8500 (S/R) Merc: 2000 Launcher Price: \$10,000 (—/C)



Rld

2

Max. Rng

2000

Damage

C:8, B:8

# SS-11/Harpon ATGM

SS-11/Harpon ATGM: The SS-11 is a French-built, wire-guided antitank missile. It is no longer in use by French forces, but it is still serving with several armies worldwide. The SS-11 is unique among ATGMs for having an antipersonnel (APERS) warhead in addition to the normal HEAT warhead. A vehicle-mounted version known as the *Harpon* (harpoon) is also available, with identical characteristics.

Missile Wt: 30 kg Launcher Wt: 12 kg Twilight: 2000 Missile Price: \$1200 (R/—) Merc: 2000 Missile Price: \$900 (—/S) Twilight: 2000 Launcher Price: \$6000 (—/R) Merc: 2000 Launcher Price: \$4500 (—/S)

	Турө	Rld	Max. Rng	Damage	Pen
	SS-11 HEAT	2	4000	C:8, B:8	120C
lided	SS-11 APERS	2	3000	C:12, B:18	2C
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addi- rsion					
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distantismo.					
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					CONTRACTOR OF THE OWNER OWNER OF THE OWNER
		nin in the second s		$\sim$	
		V			
			X X		ALL



Турө

Tank Breaker

Rld

2

Swingfire

Rld

2

# Heavy Weapons Handbook

Damage

C:12, B:12

Pen

100C

Pen

90C

# Swingfire

Swingfire: The Swingfire is a British antitank missile with a HEAT warhead, fired from a ground launcher or from a vehicle mount. The statistics below are for the ground launcher.

Ammo: Swingfire Missile Wt: 20 kg Launcher Wt: 20 kg Twilight: 2000 Missile Price: \$7500 (S/R) Merc: 2000 Missile Price: \$5500 (—/S) Twilight: 2000 Launcher Price: \$3000 (S/R) Merc: 2000 Launcher Price: \$55,000 (—/S)



Max. Rng

2000

Damage

C:6, B:4

Max. Rng

4000

# Tank Breaker

Tank Breaker: The Tank Breaker is a man-portable launcher fired from an integral rest. It fires a homing fireand-forget missile which can be set to hit the target directly, or to fly over it and attack from above (where the armor is generally thinner).

Ammo: Tank Breaker Missile Wt: 10 kg Launcher Wt: 10 kg Twilight: 2000 Rocket Price: \$5000 (S/R) Merc: 2000 Rocket Price: \$9000 (—/R) Twilight: 2000 Launcher Price: \$5000 (S/R) Merc: 2000 Launcher Price: \$75,000 (—/S)





Pen

# TOW II and TOW II-C

TOW II and TOW II-C: The TOW II missile is carried on the M2 Bradley, the M901 Hammerhead and numerous other vehicle mounts, including the tripod-mounted version detailed here. The missile is wire guided, and the gunner must continue to aim at the target for the entire flight of the missile. This launcher will also accept the TOW II-C (an overhead-attack missile).

Launcher Wt: 18 kg

Twilight: 2000 Launcher Price: \$10,000 (S/R) Merc: 2000 Launcher Price: \$60,000 (-/C) TOW II Missile Wt: 28 kg Twilight: 2000 Price: \$1500 (S/R) Merc: 2000 Price: \$6500 (—/C)

TOW II-C Missile Wt: 31 kg Twilight: 2000 Price: \$2100 (R/---) Merc: 2000 Price: \$7500 (---/S)

Max. Rng

Damage

Rld

# TOW II 2 3500 C:12, B:12 160C TOW II-C 2 3500 C:12, B:12 160C Rid Hong Jian-8 (Red Arrow) Турө Max. Rng Damage Pen Hong Jian-8 2 3000 C:10, B:10 155C Hong Jian-8 (Red Arrow): This is a Chinese-made, wireguided antitank missile with elements taken from the US TOW and British Swingfire ATGMs. Missile Wt: 22.5 kg Launcher Wt: 63 kg Twilight: 2000 Missile Price: \$750 (R/S) Merc: 2000 Missile Price: \$500 (--/C) Twilight: 2000 Launcher Price: \$3000 (S/C) Merc: 2000 Launcher Price: \$7000 (-/C)



AGS-17

ROF

5

Mag Rng

150

30D

IFR

1700 HE

Damage

C:2, B:12 Nil

Pen

Rnd



AGS-17: The standard Warsaw Pact infantry support grenade launcher, the AGS-17 is a tripod-mounted (PMT), drumfed, automatic grenade launcher. It may be fired only from its tripod or from a vehicle mount.

Ammo: 30mm HE grenades

Round Wt: 0.35 kg per round, 10 kg per 30-round drum Weapon Wt: 18 kg

Mag: 30D

*Twillght: 2000 Round Price:*\$3 each, \$75 per drum (R/C) *Merc: 2000 Round Price:*\$2 each, \$50 per drum (—/C) *Twillght: 2000 Weapon Price:*\$3000 (R/S) *Merc: 2000 Weapon Price:*\$1750 (—/R)







# HK-69

HK-69: The standard infantry grenade launcher of the West German Army, the HK-69 can be attached to the bottom of any assault or battle rifle, or can be used as a separate weapon.

Ammo: 40mm grenades

Launcher Wt: 2 kg Mag: 1i

Twilight: 2000 Launcher Price: \$500 (S/R) Merc: 2000 Launcher Price: \$460 (-/C)

### HE

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$4 each, \$200 per case (C/S) Merc: 2000 Round Price: \$3 each, \$200 per case (-/V)

### HEDP

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$5 each, \$250 per case (S/R) Merc: 2000 Round Price: \$4 each, \$250 per case (-/C)

### CHEM

Round Wt: 0.3 kg, 25 kg per case of 44 Twilight: 2000 Round Price: \$4 each, \$150 per case (S/R) Merc: 2000 Round Price: \$3 each, \$120 per case (--/S)

### ILLUM

Round Wt: 0.2 kg, 20 kg per case of 44 Twilight: 2000 Round Price: \$6 each, \$225 per case (S/R) Merc: 2000 Round Price: \$2 each, \$75 per case (-/C)



# M79

M79: The M79 is a US-made, 40mm grenade launcher. It is in service with many foreign armies but has been replaced in the US Army by the M203. The M79 breaks open like a shotgun, and a single 40mm round is hand loaded into the breech.

Ammo: 40mm grenades Launcher Wt: 2 kg Mag: 1i Twilight: 2000 L Merc: 2000 Lau

### HE

Round Wt: 0.3 k Twilight: 2000 Merc: 2000 Rou

### HEDP

Round Wt: 0.3 k Twilight: 2000 | Merc: 2000 Rou

### CHEM

Round Wt: 0.3 kg, 25 kg per case of 44 Twilight: 2000 Round Price: \$4 each, \$150 per case (S/R) Merc: 2000 Round Price: \$3 each, \$120 per case (-/S)

### ILLUM

Round Wt: 0.2 kg, 20 kg per case of 44 Twilight: 2000 Round Price: \$6 each, \$225 per case (S/R) Merc: 2000 Round Price: \$2 each, \$75 per case (--/C)

Launcher Price: \$500 (C/S) suncher Price: \$450 (—/C)	Туре	ROF	Mag	Rng	IFR	Rnd	Damage	Pen
	M79	1	11	100	400	HE	C:3, B:12	Nil
kg, 25 kg per case of 72						HEDP	C:3, B:12 C:1, B:4	4C Nil
PRound Price: \$4 each, \$200 per case (C/S) bund Price: \$3 each, \$200 per case (—/V)						ILLUM	B:100	Nil
kg, 25 kg per case of 72 Round Price: \$5 each, \$250 per case (S/R) bund Price: \$4 each, \$250 per_case (—/C)								
		<b>,</b>						
				- 2				_



# M203

M203: The standard infantry grenade launcher of the US and Canadian armies, the M203 is a single-shot launcher which is attached to the bottom of an M16 rifle. The M203 departs from most grenade launcher designs in that it uses a side-action instead of a shotgun-type action. A product improved (PI) model can be detached and fired from a removable shoulder stock, but by 1995, this model had not completely replaced older versions in military inventories.

Ammo: 40mm grenades

Launcher Wt: 1.4 kg (PI version, 2 kg)

### Mag: 1i

Twilight: 2000 Launcher Price: \$500 (C/S (PI version, \$700) (S/R) Merc: 2000 Launcher Price: \$450 (--/C (PI version, \$650) (--/S)

### HE

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$4 each, \$200 per case (C/S) Merc: 2000 Round Price: \$3 each, \$200 per case (--/V)

### HEDP

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$5 each, \$250 per case (S/R) Merc: 2000 Round Price: \$4 each, \$250 per case (-/C)

### CHEM

Round Wt: 0.3 kg, 25 kg per case of 44 Twilight: 2000 Round Price: \$4 each, \$150 per case (S/R) Merc: 2000 Round Price: \$3 each, \$120 per case (--/S)

### ILLUM

Round Wt: 0.2 kg, 20 kg per case of 44 Twilight: 2000 Round Price: \$6 each, \$225 per case (S/R) Merc: 2000 Round Price: \$2 each, \$75 per case (-/C)



# Mk-19

Mk-19: The standard infantry support grenade launcher in the US Army, the Mk-19 is a tripod-mounted (NHT), belt-fed, automatic weapon. It may also fire unbelted individual grenades (ROF 1). It may be fired only from a tripod or vehicle mount.

Ammo: 40mm grenades and 40mm high-velocity grenades Weapon Wt: 40 kg

### Mag: 50B or 1i

Twilight: 2000 Weapon Price: \$5000 (S/R)

### HVHE

Round Wt: 0.4 kg, 25 kg per belt of 50 Twilight: 2000 Round Price: \$6 each, \$250 per case (S/R) Merc: 2000 Round Price: \$220 per case (-/S)

### HVHEDP

Round Wt: 0.4 kg, 25 kg per belt of 50 Twillght: 2000 Round Price: \$10 each, \$400 per case (S/R) Merc: 2000 Round Price: \$6 each, \$275 per case (-/S)





6

# MM-1

MM-1: An American-built multiround grenade launcher resembling a large revolver, the MM-1 was not adopted by the US military, but has achieved a measure of popularity among mercenary groups. The large cylinder is spring loaded and hand wound, but the chambers can be rotated manually if necessary (reducing the ROF to 1). Loading four rounds takes one five-second combat phase. Winding the cylinder takes one five-second combat phase and cannot be done while rounds are being loaded. Not all chambers need to be loaded for the weapon to fire.

Originally built in 37mm, the MM-1 was soon manufactured in 40mm in response to user demand and will accept any standard 40mm round except the high velocity rounds used in the Mk-19.

Ammo: 40mm grenades Weapon Wt: 9 kg Mag: 12 Twilight: 2000 Weapon Price: \$1000 (R/---) Merc: 2000 Weapon Price: \$850 (---/R)

### HE

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$4 each, \$200 per case (C/S) Merc: 2000 Round Price: \$3 each, \$200 per case (-/V)

### HEDP

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$5 each, \$250 per case (S/R) Merc: 2000 Round Price: \$4 each, \$250 per case (—/C)

### CHEM

Round Wt: 0.3 kg, 25 kg per case of 44 Twilight: 2000 Round Price: \$4 each, \$150 per case (S/R) Merc: 2000 Round Price: \$3 each, \$120 per case (--/S)

### ILLUM

Round Wt: 0.2 kg, 20 kg per case of 44 Twilight: 2000 Round Price: \$6 each, \$225 per case (S/R) Merc: 2000 Round Price: \$2 each, \$75 per case (—/C)

fire. mm	Турө	ROF	Mag	Rng	IFR	Rnd	Damage	Pen
und	MM-1	5	12	100	400	HE	C:3, B:12	Nil
						HEDP	C:3, B:12	40
						CHEM	C:1, B:4	Nil
						ILLUM	B:100	Nil
C	(THE REAL PROPERTY AND A DECIMAL AND A DECIM	R	-1					
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# TGS

TGS: The TGS was designed as a replacement for the HK-69, but has not yet entered service in the German Army. It is scarce outside of German mercenary forces.

Weapon Wt: 1.2 kg Mag: 1i

Twilight: 2000 Launcher Price: \$500 (S/R) Merc: 2000 Launcher Price: \$450 (—/R)

### HE

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$4 each, \$200 per case (C/S) Merc: 2000 Round Price: \$3 each, \$200 per case (-/V)

### HEDP

Round Wt: 0.3 kg, 25 kg per case of 72 Twilight: 2000 Round Price: \$5 each, \$250 per case (S/R) Merc: 2000 Round Price: \$4 each, \$250 per case (—/C)

### CHEM

Round Wt: 0.3 kg, 25 kg per case of 44 Twilight: 2000 Round Price: \$4 each, \$150 per case (S/R) Merc: 2000 Round Price: \$3 each, \$120 per case (—/S)

### ILLUM

Round Wt: 0.2 kg, 20 kg per case of 44 Twilight: 2000 Round Price: \$6 each, \$225 per case (S/R) Merc: 2000 Round Price: \$2 each, \$75 per case (—/C)

		Rng	IFR	Rnd	Damage	Pen
1	1i	100	400	HE	C:3, B:12	Nil
				HEDP	C:3, B:12	4C
				CHEM	C:1, B:4	Nil
				ILLUM	B:100	Nil
			1 11 100	1 11 100 400	HEDP CHEM	HEDP C:3, B:12 CHEM C:1, B:4





# Image: Damage Pen Antitank Grenade: This grenade is designed to explode on impact. It contains a shaped charge and is stabilized by tins (or by other means) so that the grenade flies with the shaped charge pointing forward. Image: Damage Pen W: 1 kg, 25 kg per case of 15 Twilght: 2000 Price: \$10 each, \$120 per case (R/S). Image: Damage Pen Marcine: 2000 Price: \$24 each, \$325 per case (−/C) Image: Damage Pen Image: Damage Pen Antitank C:3, B:4 18C

# **Chemical Grenade**

Chemical Grenade: The chemical grenade is the same as a chemical round for large-caliber guns. Three types are available: HC smoke, colored smoke (red, yellow, green and purple) and irritant gas.

Wt: 0.5 kg, 16 kg per case of 16

Twillght: 2000 Price: \$3 each, \$40 per case for smoke, double prices for irritant (smoke, C/S; irritant, S/R)

Merc: 2000 Price: \$18 each, \$250 per case for smoke, double prices for irritant (smoke, C/S; irritant, S/R)





# **Concussion Grenade**

Concussion Grenade: The grenade consists of explosive filler in a cardboard or plastic container. Upon explosion, it will knock people down but will cause no lethal fragmentation.

Wt: 0.5 kg, 20 kg per case of 20

Twilight: 2000 Price: \$4 each, \$70 per case (C/S) Merc: 2000 Price: \$8 each, \$120 per case (-/V)



# **Fragmentation Grenade**

Fragmentation Grenade: The grenade, upon exploding, scatters metal fragments throughout its burst radius. *Wt:* 0.5 kg, 20 kg per case of 20 *Twillght: 2000 Price:* \$4 each, \$100 per case (C/C) *Merc: 2000 Price:* \$10 each, \$150 per case (—/V)





# White Phosphorus (WP) Grenade

White Phosphorus (WP) Grenade: The grenade scatters incendiary fragments throughout its burst radius and burns with intense heat.

Wt: 1 kg, 20 kg per case of 16

Twilight: 2000 Price: \$20 each, \$280 per case (S/S) Merc: 2000 Price: \$12 each, \$170 per case (-/C)



### IFR Damage Pen **BTU Rifle Grenades** Туре Rng Nil APERS 20 400 C:3, B:12 C:7, B:12 30C HEAT BTU Rifle Grenades: These grenades are projected from 20 400 the end of an assault rifle (by the impact energy of a bullet into the base of the grenade) and are carried to the target by inertia. The French, Israeli and American armies had adopted these grenades by 1995. Wt: 0.4 kg, 14 kg per case of 20 Twillght: 2000 Price: \$8 each, \$80 per case (C/S) Merc: 2000 Price: \$5 each, \$50 per case (-/C)



### GDW

### Туре СНЕМ **Chemical Rifle Grenade** Rng IFR Damage Pen 15 200 C:1,B:12 Nil Chemical Rifle Grenade: This is a grenade projected from the end of any battle rifle capable of firing 7.62mmN ammunition. An adaptor and a blank round are required. A chemical rifle grenade is not rocket assisted, and its range is greater than that of a thrown grenade but less than that of a RAW grenade. Its effects are the same as a chemical round for large-caliber guns. Two types are available: HC smoke and irritant gas. Wt: 0.7 kg Twilight: 2000 Price: \$14 each, \$110 per case (R/---) Merc: 2000 Price: \$9 each, \$70 per case (--/C)

*Туре* M31 IFR

200

Damage

C:7, B:12

Pen

30C

Rng

15

# M31 HEAT Rifle Grenade

M31 HEAT Rifle Grenade: This is an antitank grenade projected from the end of any battle rifle capable of firing 7.62mmN ammunition. An adaptor and a blank round are required. It is not rocket assisted, and its range is greater than that of a thrown grenade but less than that of a RAW grenade.

Wt: 0.7 kg, 12 kg per case of 10 Twilight: 2000 Price: \$12 each, \$100 per case (S/R) Merc: 2000 Price: \$8 each, \$65 per case (-/C)



RAW HE

# **Heavy Weapons Handbook**

Damage

C:10, B:28

Pen

Pen

1C

IFR

2000

IFR

Damage

Rng

Rng

100

# 140mm RAW HE

140mm RAW (Rifle Assault Weapon) HE: A rocket-propelled grenade with an HE warhead which can be fired from any assault rifle which fires 5.56mmN ammunition.

Wt: 3 kg

Twilight: 2000 Price: \$50 each (S/R) Merc: 2000 Price: \$36 each (---/R)



Туре

# 140mm RAW HEAT

rocket-propelled grenade with a HEAT warhead. It can be fired from any assault rifle which fires 5.56mmN ammunition.

Wt: 3 kg

Twilight: 2000 Price: \$100 each (S/R) Merc: 2000 Price: \$48 each (---/R)









# Bofors 40mm L60 ADA

Bofors 40mm L60 ADA: The Swedish firm of Bofors has been making antiaircraft guns since 1928. One of the more recent versions, this weapon is in use by numerous armies throughout the world (and is produced under license by Spain, the UK and India).

The weapon comes in a bewildering variety of subvariants, most of which do not have target acquisition radar.

The gun has a hopper on top of the breech into which up to 20 rounds can be loaded at any one time. The weapon can be reloaded while firing by simply dropping ammunition clips into the top of the hopper. Some models are equipped with a shield to protect the gunner (armor factor 2).

Crew: 4-6

Ammunition Wt: 3.9 kg per four-round clip, 19.5 kg total when fully loaded

Gun Wt: 2.4 tons

Mag: 20

Twillght: 2000 Ammunition Price: \$32 per four-round clip (S/R) Merc: 2000 Ammunition Price: \$16 per four-round clip (—/S) Twillght: 2000 Gun Price: \$30,000 (R/—) Merc: 2000 Gun Price: \$45,000 (—/S)

Weapon ROF Mag Rng Amm	no Damage Pen
40mm L60 5 20 1200 APT HET	16 5/1/2
HET	C:1, B:2 -6C

# Bofors 40mm L70 ADA

Bofors 40mm L70 ADA: This is an updated version of the classic Bofors 40mm antiaircraft gun, equipped with sophisticated electronics, power traverse (from an integral generator) and target acquisition radar (although, like the L60 model, it comes in a large number of subvariants). The gun has a hopper on top of the breech into which up to 24 rounds can be loaded at any one time. The weapon can be reloaded while firing by simply dropping ammunition clips into the top of the hopper. Some models are equipped with a shield to protect the gunner (armor factor 2).

Crew: 4-6

Ammunition Wt: 3.9 kg per four-round clip, 23.4 kg total when fully loaded

Gun Wt: 5.7 tons

Mag: 24

Twillght: 2000 Ammunition Price: \$32 per four-round clip (S/R) Merc: 2000 Ammunition Price: \$16 per four-round clip (—/S) Twillght: 2000 Gun Price: \$32,000 (R/—) Merc: 2000 Gun Price: \$46,000 (—/S)





Weapon

Breda L70

Weapon

Sentinel

ROF Mag Rng

500B

750

750

10

Ammo

API

HE

Damage

C:1, B:2

16

Pen

-6C

4/2/0/-2

ROF Mag Rng

144 1200

5

Ammo

APT

HET

Damage

C:1, B:2

16

Pen

-6C

5/1/-2

# Breda 40mm L70 ADA

Breda 40mm L70 ADA: This is a license-built version of the Bofors 40mm L70 antiaircraft gun. The main difference between this model and the standard L70 is the larger hopper capacity, which reduces the stress on the weapon's loader. The weapon has no integral target acquisition radar, but this is often handled by a separate unit with the battery headquarters, linking several guns into a single TA radar set. Crew: 3

Ammunition Wt: 3.9 kg per four-round clip Gun Wt: 5.3 tons Mag: 144

Twilight: 2000 Ammunition Price: \$32 per four-round clip (S/R) Merc: 2000 Ammunition Price: \$16 per four-round clip (--/S) Twilight: 2000 Gun Price: \$32,000 (R/---) Merc: 2000 Gun Price: \$46,000 (--/S)

# **Breda Sentinel** Twin 30mm ADA

Breda Sentinel Twin 30mm ADA: The Breda Sentinel uses twin 30mm autocannons mounted on a four-wheeled towed carriage, with target acquisition radar on a separate trailer-mounted unit. The weapon has a gun shield (armor factor 2) which protects the crew from fragments during counterbattery fire or air attack.

Crew: 4

Ammunition Wt: 90 kg per 100-round belt Gun Wt: 5 tons Mag: 500B Twilight: 2000 Ammunition Price: \$750 per belt (S/S) Merc: 2000 Ammunition Price: \$135 per belt (-/S) Merc: 2000 Gun Price: \$25,000 (--/S)





Damage

Pen

# Breda Twin 40mm L70 ADA

Breda Twin 40mm L70 ADA: This is a license-built, twinbarrel version of the Bofors 40mm L70 antiaircraft gun, with the action sheltered inside a fiberglass cupola. It is otherwise identical to the Breda 40mm L70 ADA mentioned previously. The weapon has no integral target acquisition radar, but this is often handled by a separate unit with the battery headquarters, linking several guns into a single TA radar set.

Crew: 4

Ammunition Wt: .98 kg per round, 468 kg drum Gun Wt: 10 tons

Mag: 480D

Twilight: 2000 Ammunition Price: \$32 per four-round clip (S/R) Merc: 2000 Ammunition Price: \$16 per four-round clip (---/S) Twilight: 2000 Gun Price: \$45,000 (R/---) Merc: 2000 Gun Price: \$54,000 (--/S)



D-48 85mm AT Gun: Introduced in 1955, the D-48 85mm antitank gun was replaced by the T-12 100mm gun in the mid-1960s.

Crew: 6 Round Wt: 10 kg (all types) Weapon Wt: 2.4 tons Twilight: 2000 Round Price: \$900 (--/S) Merc: 2000 Round Price: \$450 (--/S) Twilight: 2000 Weapon Price: \$36,000 (--/S) Merc: 2000 Weapon Price: \$24,000 (--/S)



Round

APHE

HVAP

Туре

D-48

Rng

600

400

Damage

C:5, B:10

22

Pen

50C

25/20/15

Ammo



# D-74 (M-1955) 122mm Gun

D-74 (M-1955) 122mm Gun: The D-74 is an older and heavier ancestor of the D-30 122mm gun, and it remains the standard heavy gun/ howitzer in the Soviet arsenal. This weapon is produced by several Chinese factories, where it is known as the Type 60 122mm gun. *Crew*: 10

Түрө	Round	Rng	Damage	Pen
122mm	HE	300	C:16, B:28	1C
IFR:15 km	HEAT	300	C:10, B:20	100C
<i>Rkd:</i> 1	WP	300	C:3, B:36	Nil
	CHEM	300	C:3, B:12	Nil
	ICM	· · · · · ·	B:36	Grenade
	ILLUM	—	B:1500	NII

- Weapon Wt: 5.6 tons
- Round Wt: 25 kg

Twilight Weapon Price: \$75,000 (---/R); Merc Weapon Price: \$50,000 (---/R) HE

Twilight Price: \$350 per case (S/C); Merc Price: \$135 per case (--/S) HEAT

Twilight Price: \$500 per case (R/S); Merc Price: \$140 per case (--/S) WP. CHEM

Twilight Price: \$700 per case (R/S); Merc Price: \$160 per case (---/R) ICM

Twilight Price: \$2000 per case (R/R); Merc Price: \$200 per case (---/R) ILLUM

Twilight Price: \$350 per case (R/R); Merc Price: \$150 per case (--/S)

### Powder Charge

Charge Wt: 10 kg

Twilight Price: \$40 per case (S/V); Merc Price: \$30 per case (--/

# Giat 53T4 Twin 20mm ADA

Glat 53T4 Twin 20mm ADA: This is a French-built, light antiaircraft gun system. It is usually fired from a ground mount but is sometimes found mounted on a truck bed. The weapon has no target acquisition radar.

### Crew: 2

Ammunition Wt: 50 kg per 100-round belt Gun Wt: 2 tons

### Mag: 300B

Twillght: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twillght: 2000 Gun Price: \$9000 (S/—) Merc: 2000 Gun Price: \$7500 (—/C)

	ICI	<b>M</b> Attack	Data			
Round	Close		Conc	Burst	Pen	L
122 ICM	1-3	2	3	12	Nil	
					6	-
				1000		
d h						
14 N. 1						
, i	In the second second					
392						
	400					
		8				
	-					
AND						- 1

Ammo

API

HE

Damage

C:1, B:2

10

Pen

-8C

3/-2/-5



Weapon

53T4

ROF Mag Rng

300B

450

450

20




## KS-12 (M-1939) 85mm AA Gun

KS-12 (M-1939) 85mm AA Gun: The KS-12 is capable of firing the same rounds used by the D-44 AT gun, D-48 AT gun and ASU-85 self-propelled AT gun. A special HE round with a proximity fuse is used for antiaircraft fire. This weapon has been replaced by the larger 100mm AT guns in Russian service, but it remains in use by other nations, including China (where it is known as the Type 56 85mm AT gun). The weapon has a gun shield (armor factor 2) to protect the crew against fragments.

Турө	Round	Rng	Damage	Pen
KS-12	APHE	600	C:5, B:10	50C
	HVAP	400	22	25/20/15
	HE	700	C:5, B:24	4C





Турө

KS-19

Round

APHE

HE

Rng

1500

800

Damage

C:6, B:20

24

Pen

35/25/15

4C

## KS-19 100mm AA Gun

KS-19 100mm AA Gun: The KS-19 replaced earlier 85mm AA guns in the late 1940s and was itself later replaced by more modern types. It remains in service with a number of smaller armed forces. The warlord of Beijing still manufactures the KS-19, calling it the Type 59 AA gun. The weapon has no integral target acquisition radar, but may be linked to TA sets at battery headquarters.

Crew: 9

Round Wt: 16 kg Weapon Wt: 11 tons Twilight: 2000 Round Price (All Types): \$800 (---/R)

Merc: 2000 Round Price (All Types): \$700 (--/R) Twillght: 2000 Gun Price: \$65,000 (--/R) Merc: 2000 Gun Price: \$50,000 (--/R)

## KS-30 130mm AA Gun

KS-30 130mm AA Gun: An obsolete Russian heavy antiaircraft gun, the KS-30 was largely superseded in frontline units by surface-to-air-missiles. It remains in reserve with the Russian military and can be found in active service in many nations throughout the world.

Crew: 11

Round Wt: 23 kg Weapon Wt: 25 tons Twilight: 2000 Round Price: \$900 (—/R) Merc: 2000 Round Price: \$800 (—/R) Twilight: 2000 Gun Price: \$80,000 (—/R) Merc: 2000 Gun Price: \$60,000 (—/R)









## M-1944 100mm AT Gun

M-1944 100mm AT Gun: This Russian-built, towed antitank gun uses the same rounds as the 100mm gun in the T-54/55 tank. *Crew*: 6

Weapon Wt: 3.4 tons Twilight: 2000 Weapon Price: \$65,000 (---/R) Merc: 2000 Weapon Price: \$45,000 (---/R)

## APHE

Round Wt: 21 kg Twilight: 2000 Round Price: \$650 (—/S) Merc: 2000 Round Price: \$455 (—/R)

### HEAT

Round Wt: 22 kg Twilight: 2000 Round Price: \$650 (—/S) Merc: 2000 Round Price: \$455 (—/R) **HVAPDS-T** 

Round Wt: 25 kg Twilight: 2000 Round Price: \$750 (—/R) Merc: 2000 Round Price: \$525 (—/R)

## WP

Round Wt: 18 kg Twilight: 2000 Round Price: \$700 (—/S) Merc: 2000 Round Price: \$490 (—/R)

Турө	Round	Rng	Damage	Pen
M-1944	HVAPDS-T	350	26	70/60/50/30
	APHE	300	C:6, B:12	70C
	HEAT	250	C:4, B:10	60C
	WP	250	C:3, B:20	Nil



## M-1946 130mm Field Gun

M-1946 130mm Fleid Gun: The M-1946 is the primary Russian field gun, although it is gradually being replaced by the more modern 152mm howitzers. The weapon is used by various Chinese warlords, Vietnam and other nations worldwide.

Crew: 9

Ammunition Wt (All Types): 33 kg

Twilight: 2000 Ammunition Price (All Types):\$450 (—/R) Merc: 2000 Ammunition Price (All Types): \$350 (—/R) Twilight: 2000 Weapon Price: \$45,000 (—/R) Merc: 2000 Weapon Price: \$32,000 (—/R)

Турө	Round	Rng	Damage	Pen
M-1946	HE	900	C:6, B:32	4C
IFR: 27 km	APHE	800	28	55/45/35/20
RId: 2	WP	1000	C:6, B:32	Nil





## M-1976 152mm Gun

M-1976 152mm Gun: The M-1976 entered Soviet service in the mid-1970s and is still in service in Russian Republic artillery divisions and army-level artillery regiments and brigades.

### Crew: 8

Twilight: 2000 Weapon Price: \$65,000 (---/R) Merc: 2000 Weapon Price: \$45,000 (---/R)

#### HE

Twilight: 2000 Price: \$500 (S/C); Merc: 2000 Price: \$150 (-/S)

## HEAT

Twilight: 2000 Price: \$750 (R/S); Merc: 2000 Price: \$180 (--/S)

### ICM

Twilight: 2000 Price: \$3000 (R/R); Merc: 2000 Price: \$300 (--/R)

### WP

Twilight: 2000 Price: \$1000 (R/S); Merc: 2000 Price: \$200 (--/R)

### CHEM

Twilight: 2000 Price: \$500 (R/S); Merc: 2000 Price: \$200 (--/R)

### ILLUM

Twilight: 2000 Price: \$500 (R/R); Merc: 2000 Price: \$190 (--/R)

### **Powder Charge**

Charge Wt: 25 kg Twilight: 2000 Price: \$60 (S/C); Merc: 2000 Price: \$50 (--/S)

Tvpe	Round	Rna	Damage	Pen
152mm	HE	300	C:24, B:36	3C
IFR: 19 km	APHE	350	C:8, B:12	80C
Rld: 2	WP	300	C:3, B:44	Nil
	CHEM	300	C:3, B:28	Nil
	ICM		B:60	Grenade
	ILLUM	—	B:2000	Nil











## M55 20/3 20mm Triple AA

M55 20/3 20mm Triple AA: The M55 20/3 is a triple-barreled 20mm antiaircraft autocannon manufactured by several of the Yugoslavian splinter states. It has no provision for target acquisition radar and is a clear weather system. *Crew*: 6

Ammunition Wt: 50 kg per 60-round drum Gun Wt: 1.1 tons

Mag: 180D

Twilight: 2000 Ammunition Price: \$400 per drum (S/R) Merc: 2000 Ammunition Price: \$450 per drum (—/C) Twilight: 2000 Gun Price: \$10,000 (—/R) Merc: 2000 Gun Price: \$8500 (—/S)

1	Weapon	ROF	Mag		Ammo	Damage	Pen
	M55 20/3	30	180D	450	API	10	3/-2/-5
oar-	1 1			450	HE	C:1, B:2	-8C
ev-	101						
ion	880	0					
em.	0 1 1	1					
R)						١	
(C. STAT			0 P				
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## M55 20/2 20mm Twin AA

M55 20/2 20mm AA: The M55 20/2 is a twin-barreled 20mm antiaircraft autocannon manufactured by several of the Yugoslavian splinter states. It has no provision for target acquisition radar, and is a clear weather system. *Crew*: 4

Ammunition Wt: 50 kg per 60-round drum Gun Wt: 900 kg Mag: 120D Twilight: 2000 Ammunition Price: \$400 per drum (S/

Merc: 2000 Ammunition Price: \$450 per drum (—/C) Twilight: 2000 Gun Price: \$9000 (—/R) Merc: 2000 Gun Price: \$7500 (—/S)

	Weapon	ROF	Mag	Rng	Атто	Damage	Pen
	M55 20/2	20	120D	450	API	10	3/2/5
eled				450	HE	C:1, B:2	-8C
al of							
rget							
/R)							
)							
		7			1		
	1				40		
		-	A	n	Or	0	
		~			0/9	The second	
			1			5	1
		5	1 and	ALC NO.	-		
		L.	1				
			N.	COLUMN			



## M55 Quad .50 (12.7mm) ADA

M55 Quad .50 (12.7mm) ADA: This is an obsolete antiaircraft gun incorporating four American .50-caliber (12.7mm) air-cooled machineguns on a powered 360° mount. This particular combination was used by American forces in WWII in both towed and self-propelled versions. It is no longer in service in the US Army, but is used by more than a dozen armies throughout the world and is still under production (under alicense arrangement) in Brazil. The weapon is not normally equipped with target acquisition radar.

#### Crew: 4 Gun Wt: 1.4 tons Mag: 840B Twilight: 2000 Gun Price: \$15,000 (S/R) Merc: 2000 Gun Price: \$20,000 (—/S)

The Browning .50-caliber machinegun (in its current incarnation as the M2HB machinegun in the US Army) began life in WWI as an antitank gun (which indicates something about WWI-era tank armor), then became an antiaircraft weapon. Many soldiers strongly though incorrectly believe that it is against the Geneva Convention to fire this weapon against personnel due to its armor-piercing origins.

## BMG

Wt: 15 kg per case of one belt, 13 kg per 105-round belt Twilight: 2000 Price: \$35 per case (C/S) Merc: 2000 Price: \$75 per case (S/V)

### SLAP

Wt: 15 kg per case of one belt, 13 kg per 105-round belt Twilight: 2000 Price: \$60 per case (S/R) Merc: 2000 Price: \$85 per case (S/V)



M75 20/1	Weapon	ROF	Mag	Rng	Ammo	Damage	Pen
	M75	10	60D	450	API	10	3/2/5
M75 20/1: The M75 20/1 is a 20mm antiaircraft autocannon manufactured by several of the Yugoslavian splinter states. It has no provision for target acquisition radar and is a clear weather system. <i>Crew:</i> 4 <i>Ammunition Wt:</i> 50 kg per 60-round drum <i>Gun Wt:</i> 260 kg				450	HE	C:1, B:2	-8C
Twilight: 2000 Ammunition Price: \$400 per drum (S/R) Merc: 2000 Ammunition Price: \$450 per drum (—/C)						and the second s	
Twilight: 2000 Gun Price: \$7500 (/R) Merc: 2000 Gun Price: \$5000 (/R)							



M167 Towed PIVAD	Weapon	ROF	Mag	Rng	Ammo	Damage	Pen
WIG/ IOweu FIVAD	M167	60	1000B	450	API	10	3/-2/-5
M167 Towed PIVAD: This is the towed version of the fa- mous PIVAD (product improved Vulcan air defense) antiair- craft gun. Part of the PIVAD improvement was the installa- tion of fire control radar. Ammunition is normally betted in a mix of both HE and API types, the precise proportion de- pending upon circumstances. A ratio of 4:1 HE:API can be considered typical (in other words, out of a 60-round burst, 48 will be HE and 12 API). Crew: 4 Ammunition Wt: 50 kg per 100-round belt Gun Wt: 1.8 tons Mag: 1000B Twillght: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twilight: 2000 Gun Price: \$75,000 (R/R) Merc: 2000 Gun Price: \$85,000 (—/S)				450	HE	C:1, B:2	-8C
	<b>(0)</b>		3			1 19 19 19 11 - 1 - 1 - 1 -	

## M1966 76.2mm Mountain Gun

M1966 76.2mm Mountain Gun: The M-1966 is a light, easily portable artillery piece intended for use by troops operating in rough terrain or without motor transport. The weapon is designed to be towed by light vehicles or animals, and can be broken down into 10 78-kilogram loads for transport by mule or pack horse. The weapon is extremely popular with mercenary units and is one of the Russian armament industry's hottest sellers.

Crew: 6 Round Wt (All Types): 6.5 kg Weapon Wt: 780 kg Twilight: 2000 Round Price (All Types): \$65 (--/S) Merc: 2000 Round Price (All Types): \$35 (--/C) Twilight: 2000 Weapon Price: \$8000 (--/S) Merc: 2000 Weapon Price: \$7500 (--/C)

Турө	Round	Rng	Damage	Pen
76.2mm	HE	650	C:4, B:16	4C
	HEAT	650	C:4, B:8	55C





## Oerlikon IItis 25mm Infantry Gun

### Oerlikon litis 25mm Infantry Gun: This weapon is unusual in that it was designed as a combination lightweight antihelicopter gun and antipersonnel weapon. The litis is configured so that the gunner can lie face down behind it, sighting through a fiber-optic cable link to the sight. The weapon has two feed devices, enabling the gunner to select between two types of rounds (for example, HE in one, API in the other).

Although it has yet to be adopted by any military, the Iltis is very popular with mercenary units and is thus one of Oerlikon's best-selling weapons. The weapon has no provision for target acquisition radar.

### Crew: 2

Round Wt: 100 kg per case of 33 rounds Weapon Wt: 240 kg Mag: 30D Twillght: 2000 Weapon Price: \$5000 (R/—) Merc: 2000 Weapon Price: \$4500 (—/C)

## API

*Twilight: 2000 Price:* \$650 per case (C/S) *Merc: 2000 Price:* \$380 per case (—/S)

## HE

Twilight: 2000 Price: \$650 per case (C/S) Merc: 2000 Price: \$400 per case (—/S)

### APDU

Twilight: 2000 Price: \$2500 per case (S/R) Merc: 2000 Price: \$500 per case (--/R)



## Oerlikon GAI C01/C04 20mm ADA

**Oerlikon GAI C01/C04 20mm ADA:** This is an older, Swiss-built, single-barreled, 20mm antiaircraft gun. It incorporates manual traverse and elevation, and no target acquisition radar. The weapon is inexpensive and easily maintained, and is very popular with military bargain seekers and less technically sophisticated forces. Mercenary units find it particularly useful in an antipersonnel mode. The GAI-C04 has a capacity of 150 rounds. A similar model, the GAI-C01, is identical except for a reduced capacity.

Crew: 3

Ammunition Wt: 50 kg per 100-round belt Weapon Wt: GAI C01 534 kg, GAI C04 589 kg Mag: GAI C01 75B, GAI C04 150B Twilight: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twilight: 2000 Gun Price: \$9000 (S/—) Merc: 2000 Gun Price: \$7500 (—/C)





Weapon

GAI-D01

ROF Mag Rng

10

240B 450

450

## Heavy Weapons Handbook

10

Damage

C:1, B:2

Pen

-8C

3/-2/-5

Ammo

API

HE



**Oerlikon GAI-D01 Twin 20mm ADA:** This weapon is a more advanced, twin-barreled version of the basic Oerlikon 20mm antiaircraft gun. It has power traverse and elevation, and a larger ammunition capacity than the GAI-C01/C04. It does not have integral target acquisition radar.

Crew: 5

Ammunition Wt: 50 kg per 100-round belt Weapon Wt: 1.8 tons Mag: 240B Twilight: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twilight: 2000 Gun Price: \$9000 (S/—) Merc: 2000 Gun Price: \$7500 (—/C)

## Oerlikon GBF-BOB Diana 25mm ADA

Oerlikon GBF-BOB Diana 25mm ADA: This is the same weapon used on the M691 Diana self-propelled air defense vehicle on a two-wheeled towed ground mount. The weapon has a dual feed system which enables the gunner to select from two ammunition types at the flip of a switch. The weapon is fitted with electronic fire control and target acquisition radar. *Crew*: 3

Ammunition Wt: 100 kg per case of 33 rounds, belted Weapon Wt: 4 tons Mag: 500D Twilight: 2000 Gun Price: \$38,000 (S/---)

Merc: 2000 Gun Price: \$25,000 (--/C)

## API

*Twilight: 2000 Price:* \$650 per case (C/S) *Merc: 2000 Price:* \$380 per case (—/S)

## HE

Twilight: 2000 Price: \$650 per case (C/S) Merc: 2000 Price: \$400 per case (—/S)





#### HE Oerlikon GBI-A01 Twilight: 2000 Price: \$650 per case (C/S) Merc: 2000 Price: \$400 per case (-/S) 25mm ADA Oerlikon GBI-A01 25mm ADA: This is a Swiss-built, Weapon ROF Mag Rng Ammo Damage Pen -2/-4/-6 25mm, towed antiaircraft gun. It has manual elevation and GBI-A01 10 210B 250 API 10 250 HE C:1, B:2 -8C traverse, and no target acquisition radar. Crew: 3 Ammunition Wt: 100 kg per case of 33 rounds, belted Weapon Wt: 666 kg Mag: 250B Merc: 2000 Gun Price: \$7500 (---/S) API Twilight: 2000 Price: \$650 per case (C/S) Merc: 2000 Price: \$380 per case (--/S) Weapon ROF Mag Rng Ammo Damage Pen Oerlikon Twin 35mm ADA 35mm 10 112D 500 API 12 -2/-4/-6 HE -8C Oerlikon Twin 35mm ADA: This is a Swiss-built, towed, 500 C:2, B:3 twin-barreled, 35mm antiaircraft gun on a four-wheeled carriage. Ammunition bins for each gun hold up to 56 rounds each. Reloading is accomplished by dropping seven-round clips into each bin as the gun fires. The weapon has no integral target acquisition radar, but is usually linked to a battery TA radar set. Crew: 3 Ammunition Wt: 4 kg per seven-round clip Weapon Wt: 6.7 tons Mag: 112D Twilight: 2000 Ammunition Price: \$65 per clip (S/R) Merc: 2000 Ammunition Price: \$48 per clip (-/S) Twilight: 2000 Weapon Price: \$35,000 per clip (S/R) Merc: 2000 Weapon Price: \$25,000 per clip (-/S)



## Rapira-3 125mm AT Gun

Rapira-3 125mm AT Gun: The Rapira-3 towed antitank gun uses the same large-caliber gun mounted on the T-72, T-80 and T-90 tanks. The Rapira-3 gun is manually loaded, and the gunner may aim during loading. The Rapira-3 has a gun shield (armor factor of 2) which provides cover for the gunner and loader if fired upon from the front.

101 200

The Rapira-3 takes eight combat turns to set up. *Crew:* 4 *Ammunition Wt:* 40 kg *Gun Wt:* 3.5 tons

Twilight: 2000 Gun Price: \$50,000 (R/S) Merc: 2000 Gun Price: \$45,000 (—/R)

## HE

Twilight: 2000 Price: \$800 (S/C) Merc: 2000 Price: \$130 (--/C)

## HEAT

Twillght: 2000 Price: \$800 (R/S) Merc: 2000 Price: \$140 (--/C)

## APFSDS

Twilight: 2000 Price: \$800 (S/R) Merc: 2000 Price: \$150 (--/S)

## APFSDSDU

Twilight: 2000 Price: \$1500 (R/R) Merc: 2000 Price: \$175 (—/R)

## Powder Charge

Charge Wt: 25 kg Twilight: 2000 Price: \$80 (S/C) Merc: 2000 Price: \$40 (—/C)

Туре	Round	Rng	Damage	Pen
125mm	APFSDS	450	28	100/90/80/60
Rld: 2	APFSDSDU	450	28	110/100/90/70
	HEAT	400	C:10, B:20	110C
	HE	400	C:14, B:28	1C
	0			

## Rheinmetal Twin 20mm ADA

RheInmetal Twin 20mm ADA: This is a German-built, twin-barreled, towed, 20mm antiaircraft gun on a two-wheel cruciform mount. The weapon has power traverse and elevation. Some models (notably those in service with the German Army and with German-supplied mercenaries) have target acquisition radar (which adds \$5000 to the price). *Crew*: 3

Ammunition Wt: 50 kg per 100-round belt Weapon Wt: 2.2 tons Mag: 500B Twilight: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twilight: 2000 Gun Price: \$12,000 (S/—) Merc: 2000 Gun Price: \$10,500 (—/C)





## Royal Ordnance 105mm Light Gun

Royal Ordnance 105mm Light Gun: Entering service in 1974, the Royal Ordnance 105mm light gun is one of the more advanced towed artillery pieces in the world. The ammunition used with this weapon is also that used by the Abbot SP howitzer (but not that used by US 105mm howitzers). Prices and weights are for the twopart round/powder charge combination used by this weapon.

Crew: 5

Ammunition Wt: 16 kg Weapon Wt: 1.8 tons Twilight: 2000 Weapon Price: \$600,000 (C/S) Merc: 2000 Weapon Price: \$300,000 (-/C)

### HE

Twilight: 2000 Round Price: \$225 (C/S) Merc: 2000 Round Price: \$115 (--/C)

HEAT and HESH Twilight: 2000 Round Price: \$250 (C/S) Merc: 2000 Round Price: \$120 (—/C)

### WP and ILLUM

Twillght: 2000 Round Price: \$240 (S/R) Merc: 2000 Round Price: \$130 (—/R)



# S-23 (M-1955) 180mm Gun

S-23 (M-1955) 180mm Gun: The S-23 design is based on a pre-WWII naval gun. For many years, this weapon was believed to be a 203mm gun (known as the M-1955). The S-23 was phased out of the Soviet Army in the mid-1980s (when it was still the Soviet Army), but it is still found in service with other armies throughout the world. A rocket-assisted HE projectile (HE-RAP) is available, with an indirect fire range of 48 kilometers.

## Crew: 16

Weapon Wt: 20.4 tons Twilight: 2000 Weapon Price: \$750,000 (--/--) Merc: 2000 Weapon Price: \$500,000 (--/R)

## HE

Ammunition Wt: 85 kg Twilight: 2000 Round Price: \$600 (—/—) Merc: 2000 Round Price: \$350 (—/R)

### HE-RAP

Ammunition Wt: 90 kg Twilight: 2000 Round Price: \$1200 (—/—) Merc: 2000 Round Price: \$600 (—/R)

Туре	Round	Rng	Damage	Pen
S-23	HE	450	C:32, B:40	4C
<i>IFR:</i> 30 km <i>RId:</i> 4	HE-RAP	450	C:32, B:40	4C























S-60 57mm AA Gun	Турө	Round	Rng	Damage	Pen
5-00 57 mm AA Gun	S-60	HET	1200	C:6, B:24	4C
S-60 57mm AA Gun: The S-60 is a ground-mount, single- barreled version of the weapon used in the ZSU-57-2 self- propelled antiaircraft gun. The weapon is almost always used in conjunction with some form of target acquisition radar at the battery level. <i>Crew:</i> 7 <i>Round Wt (All Types):</i> 12 kg per four-round clip <i>Weapon Wt:</i> 4.6 tons <i>Twilight: 2000 Round Price (All Types):</i> \$600 per clip (R/S) <i>Merc: 2000 Round Price (All Types):</i> \$300 per clip (-/C) <i>Twilight: 2000 Weapon Price:</i> \$100,000 (R/S) <i>Merc: 2000 Weapon Price:</i> \$75,000 (-/S)		API	1200	22	20/10/5/1

## SD-44 and D-44 85mm AT Gun

SD-44 and D-44 85mm AT Gun: This is an obsolete, Russian-built, antitank gun, no longer in production except in China (where it is known as the Type 55 85mm AT gun). This weapon uses the same ammunition as the ASU-85 selfpropelled gun.

The SD-44 has an integral motor and steering system, which permits the gun to relocate itself short distances without the need for a towing vehicle. The D-44 does not have this feature, but is otherwise identical.

The SD-44 is still in service with parachute units in the Russian Republic and elsewhere.

Round Wt (All Types): 10 kg Twilight: 2000 Round Price: \$900 (—/S) Merc: 2000 Round Price: \$450 (—/S)

## SD-44

Crew: 5 Weapon Wt: 2.2 tons Twilight: 2000 Weapon Price: \$24,000 (---/S) Merc: 2000 Weapon Price: \$20,000 (---/S)

### D-44

Crew: 7 Weapon Wt: 1.8 tons Twilight: 2000 Weapon Price: \$28,000 (---/R) Merc: 2000 Weapon Price: \$22,000 (---/R)

Турө	Round	Rng	Damage	Pen
SD-44, D-44	APHE	600	C:5, B:10	50C
	HVAP	400	22	25/20/15



## T-12 100mm AT Gun

### T-12 100mm AT Gun: A Soviet-built, 100mm antitank gun, the T-12 replaced earlier 100mm and 85mm AT guns.

Crew: 6 Weapon Wt: 3.4 tons Twilight: 2000 Weapon Price: \$75,000 (—/R) Merc: 2000 Weapon Price: \$55,000 (—/R)

## APHE

Round Wt: 21 kg Twilight: 2000 Round Price: \$650 (—/S) Merc: 2000 Round Price: \$455 (—/R)

### HEAT

Round Wt: 22 kg Twilight: 2000 Round Price: \$650 (—/S) Merc: 2000 Round Price: \$455 (—/R) HVAPDS-T

Round Wt: 25 kg Twilight: 2000 Round Price: \$750 (—/R) Merc: 2000 Round Price: \$525 (—/R)

## WP

Round Wt: 18 (WP) Twilight: 2000 Round Price: \$700 (—/S) Merc: 2000 Round Price: \$490 (—/R)

	Турө	Round	Rng	Damage	Pen
ice: \$650 (/S)	T-12	HVAPDS-T	350	26	70/60/50/30
\$455 (—/R)		APHE	300	C:6, B:12	70C
•••••		HEAT	250	C:4, B:10	60C
		WP	250	C:3, B:20	Nil
<i>ice:</i> \$650 (—/S)					
\$455 (—/R)					
\$455 (—/R)					

# TCM Twin 20mm ADA

TCM Twin 20mm ADA: The TCM was developed in Israel in the 1970s and was credited with shooting down 60% of all aircraft downed by Israeli air defenses during the Yom Kippur War. The weapon has armor protection for the gunner (armor factor 2), and can be found in both towed and vehicle-mounted versions. The TCM has no integral target acquisition radar, but can be linked into a battery headquarters TA system.

Crew: 2 Weapon Wt: 1.4 tons Ammunition Wt: 50 kg per 100-round belt Mag: 120B Twilight: 2000 Ammunition Price: \$450 per belt (S/R) Merc: 2000 Ammunition Price: \$500 per belt (—/C) Twilight: 2000 Gun Price: \$11,000 (S/—) Merc: 2000 Gun Price: \$8500 (—/C)





## TR 155mm Gun

TR 155mm Gun: A French-built, 155mm gun/howitzer, this weapon fires conventional rounds or rocket assisted projectiles (RAP). The TR's ammunition is not interchangeable with other weapons. A RAP version of the standard round has identical combat characteristics, but weighs 65 kilograms, costs twice as much and has an indirect fire range of 33 kilometers.

Crew: 10 Round Wt: 50 kg each

Twilight Weapon Price: \$650,000 (C/---); Merc Weapon Price: \$500,000 (---/C)

#### HE

Twilight Price: \$500 (C/S); Merc Price: \$140 (--/C) HEAT

Twilight Price: \$750 (C/S); Merc Price: \$175 (--/C) ICM-DP

Twilight Price: \$3000 (R/R); Merc Price: \$280 (—/S)

Twilight Price: \$1500 (S/R); Merc Price: \$190 (--/R) CHEM

Twilight Price: \$500 (S/R); Merc Price: \$190 (--/R) ILLUM

Twilight Price: \$490 (S/R); Merc Price: \$170 (--/S) Powder Charge

#### Charge Wt: 25 kg

Twilight Price: \$60 (V/S); Merc Price: \$55 (--/C)

Type Round Rng Damage Pen TR 155mm C:30, B:36 HE 350 3C IFR: 26 km HEAT 350 C:20, B:28 110C Rid: 2 WP 350 C:3, B:44 Nil CHEM 350 Nil C:3, B:28 ICM-DP B:60 Grenade ILLUM B:2000 NII



T	Түрө	Round	Rng	Damage	Pen
Type 59 57mm ADA	Type 59	HET	1200	C:6, B:24	4C
Type 59 57mm ADA : The Type 59 is a Chinese version					
of the Russian S-60 57mm antiaircraft gun, modified to suit Chinese manufacturing practices.					
Crew: 7					
Round Wt: 12 kg per four-round clip					
Weapon Wt: 4.6 tons					
Twilight: 2000 Round Price: \$600 per clip (R/S) Merc: 2000 Round Price: \$300 per clip (—/C)					
Twilight: 2000 Weapon Price: \$100,000 (R/S)					
Merc: 2000 Weapon Price: \$75,000 (/S)					
			7		
	-	V.		r	
	1	12-			
	IT		$\bot$	99	-
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	· · ·				
				100	



Weapon

Type 74

ROF Mag Rng

10

50D 1200

Ammo

APT

HET

Damage

C:1, B:2

16

Pen

-6C

5/1/-2

## Type 74 37mm ADA

Type 74 37mm ADA: This is a two-barreled version of the Russian M-1939 37mm antiaircraft gun. The Chinese model, known as the Type 65, is essentially identical. The main differences are in engineering details, which have been modified to better fit Chinese manufacturing techniques. *Crew*: 4

Ammunition Wt: 40 kg per 50-round drum Gun Wt: 2.4 tons

Mag: 50D

Twilight: 2000 Ammunition Price: \$30 per five-round clip (S/R) Merc: 2000 Ammunition Price: \$14 per five-round clip (—/S) Twilight: 2000 Gun Price: \$24,000 (—/R) Merc: 2000 Gun Price: \$32,000 (—/S)

## Type 85 25mm ADA

Type 85 25mm ADA: A Chinese-designed, twin 25mm antiaircraft autocannon, the Type 85 shows some overall similarities to the Russian ZU-23-2. The weapon has manual traverse and elevation, and no provision for target acquisition radar.

### Crew: 3

Ammunition Wt: 100 kg per case of 33 rounds, belted Weapon Wt: 1.5 tons

### Mag: 66B

Twilight: 2000 Gun Price: \$38,000 (—/S) Merc: 2000 Gun Price: \$25,000 (—/C)

## APT and HEAP-T

Twilight: 2000 Price: \$650 per case (C/S) Merc: 2000 Price: \$38 per case (—/S)

### HE

*Twillght: 2000 Price:* \$650 per case (C/S) *Merc: 2000 Price:* \$40 per case (—/S)

rounds, belted	Weapon	ROF	Mag	Rng	Ammo	Damage	Pen
V	Type 85	10	66B	250	APT	10	-2/-4/-6
6				250	HE	C:1, B:2	-8C
/S)	4			250	HEAP-T	C:1, B:2	-4C
		70					2



## 7PU-1/7PU-2 14.5mm AA Gun

ZPU-1/ZPU-2 14.5mm AA Gun: This is the antiaircraft version of the Soviet KPV 14.5mm heavy machinegun. It has no target acquisition radar.

The ZPU-2 has two barrels. The ZPU-1 (not illustrated) is similar in appearance, but has only one barrel. The ZPU-1 and ZPU-2 are no longer in service except in Africa, Asia and the Middle East. The weapons are still manufactured by Korea and several of the Chinese warlords (where the ZPU-2 is known as the Type 58).

Crew: 2-4 Ammunition Wt: 25 kg per 100-round belt Mag: 1200B/2400B Ammunition Price: \$30 per 100-round belt (S/C)

The 14.5mm Bloc round used in the ZPU-1, ZPU-2, ZPU-4 and KPV heavy machinegun was originally developed as a round for an antitank rifle (the PTRS-41). See Infantry Weapons of the World for information.

ZPU-1

Weapon Wt: 413 kg Twillaht: 2000 Weapon Price: \$6000 (R/S) Merc: 2000 Weapon Price: \$4000 (--/S)

## ZPU-2

Weapon Wt: 620 kg Twilight: 2000 Weapon Price: \$7000 (R/C) Merc: 2000 Weapon Price: \$5000 (--/C)

Weapon	ROF	Mag	Rng	Ammo	Damage	Pen
ZPU-1	5	1200B	150	14.5mmB	12	2-2-3
ZPU-2	10	2400B	150	14.5mmB	12	2-2-3
-			DF	R		
		• -	~	4	(	

## ZPU-4 14.5mm AA Gun

ZPU-4 14.5mm AA Gun: This is the antiaircraft version of the Soviet KPV 14.5mm heavy machinegun. The ZPU-4 has four barrels, as indicated by its name. It has no target acquisition radar. This weapon is still manufactured by the Russian Republic, Korea and several of the Chinese warlords (where it is known as the Type 56), and is in service with dozens of national armies and mercenary units.

Crew: 2-4 Ammunition Wt: 25 kg per 100-round belt Mag: 4800B Ammunition Price: \$30 per belt (S/C) Weapon Wt: 1.8 tons Twilight: 2000 Weapon Price: \$10,000 (R/C) Merc: 2000 Weapon Price: \$7500 (-/C)







20

250

HE

C:1, B:2

-8C

## ZU-23-4 23mm AA Gun

ZU-23-4 23mm AA Gun: This is the same 23mm, guadruple-barreled autocannon found on the ZSU-23-4 Shilka self-propelled antiaircraft gun. No provision is made for target acquisition radar. The weapon is manufactured for the export market in an attempt to gain hard currency for the Russian Republic.

### Crew: 4

Ammunition Wt: 100 kg per case of 33, belted Weapon Wt: 1.8 tons

### Mag: 100B

Twilight: 2000 Ammunition Price: \$500 per case (S/C) Merc: 2000 Ammunition Price: \$36 per case (-/S) Twilight: 2000 Weapon Price: \$10000 (R/S) Merc: 2000 Weapon Price: \$8000 (--/S)



ILLUM

**Powder Charge** 

Charge Wt: 25 kg

## D-1 (M-1943) 152mm Howitzer

D-1 (M-1943) 152mm Howitzer: This aging Russian artillery piece is one of the last WWII-era weapons remaining in service with the Russians, albeit in low-readiness units. The weapon is also produced for local use and export by several Chinese warlords. The weapon has a gun shield (armor factor 2) which protects the gunner and two of the loaders from fragments.

Crew:7

Twilight: 2000 Price: \$500,000 (--/S) Merc: 2000 Price: \$450,000 (--/R)

#### HE

Twilight: 2000 Price: \$500 (S/C) Merc: 2000 Price: \$150 (—/S)

### HEAT

Twilight: 2000 Price: \$750 (R/S) Merc: 2000 Price: \$180 (—/S)

### WP

Twilight: 2000 Price: \$1000 (R/S) Merc: 2000 Price: \$200 (---/R)

### CHEM

Twilight: 2000 Price: \$500 (R/S) Merc: 2000 Price: \$200 (--/R)



Twilight: 2000 Price: \$500 (R/R)

Merc: 2000 Price: \$190 (---/R)

## D-20 (M-1947) 152mm Howitzer

D-20 (M-1947) 152mm Howitzer: The D-20 is the Russian Republic's standard heavy artillery weapon, found in army-level artillery brigades and divisions. The weapon has a gun shield (armor factor 2) which protects the gunner and two of the loaders from fragments. The D-20 is used in China, where is known as the Type 66 152mm howitzer.

### Crew: 10

Twilight: 2000 Weapon Price: \$600,000 (—/S) Merc: 2000 Weapon Price: \$500,000 (—/R)

### HE

Twilight: 2000 Price: \$500 (S/C) Merc: 2000 Price: \$150 (--/S)

### HEAT

Twilight: 2000 Price: \$750 (R/S) Merc: 2000 Price: \$180 (—/S)

### ICM

Twilight: 2000 Price: \$3000 (R/R) Merc: 2000 Price: \$300 (—/R)

### WP

Twilight: 2000 Price: \$1000 (R/S) Merc: 2000 Price: \$200 (—/R)

### CHEM

Twilight: 2000 Price: \$500 (R/S) Merc: 2000 Price: \$200 (--/R)

### ILLUM

Twilight: 2000 Price: \$500 (R/R) Merc: 2000 Price: \$190 (—/R) Powder Charge Charge Wt: 25 kg Twilight: 2000 Price: \$60 (S/C) Merc: 2000 Price: \$50 (--/S)

Түрө	Round	Rng	Damage	) P	en
D-1	HE	300	C:24, B:	36 30	С
IFR: 19 km	HEAT	350	C:8, B:1	2 8	OC
RId: 2	WP	300	C:3, B:4	4 N	1
	CHEM	300	C:3, B:2		1
	ICM	-	B:60		renade
	ILLUM	—	B:2000	N	H
	10	CM Attac	k Data		
Round	Close	Adj.	Conc	Burst	Per
152 ICM	1-4	3	3	12	Nil
		~			
	FC	5			



## D-30 122mm Howitzer

D-30 122mm Howitzer: The D-30 towed howitzer is the same manually loaded howitzer mounted on the SAU-122 self-propelled howitzer. The D-30 has a gun shield (armor factor 15) which provides cover for the gunner (but not the loader) if fired upon from the front. The D-30 takes 12 30-second combat turns (five minutes) to set up.

#### Crew: 7 Weapon Wt: 3 tons

Round Wt (All Twilight: 2000 Merc: 2000 H

### HE

Twilight: 2000 Merc: 2000 Pr

### HEAT

Twilight: 2000 Merc: 2000 Pr

### ICM

Twilight: 2000 Merc: 2000 Pr

### WP, CHEM

Twilight: 2000 Merc: 2000 Pi

## ILLUM

Twilight: 2000 Price: \$350 per case (R/R) Merc: 2000 Price: \$150 per case (---/S)

### **Powder Charge**

Charge Wt: 10 kg Twilight: 2000 Price: \$40 per case (S/V) Merc: 2000 Price: \$30 per case (-/S)

<u>Type</u> D-30 <i>IFR:</i> 15 km <i>Rkd:</i> 1		800 300 300	Damage C:16, B:		1C
	HEAT				
			C:10, B:	20	100C
1 00 00 0	WP	300	C:3, B:3		Nil
	CHEM	300	C:3, B:1		Nil
		_		-	Grenade
	ILLUM		B:1500		Nil
	I	CM Attack	Data		
Round	Close	Adj.	Conc	Burst	Pen
122 ICM	1-3	2	3	12	NI
- And -					
(9),					
	a	- K		4	
		IC Round Close	ILLUM — ICM Attack Round Close Adj.	ILLUM — B:1500 ICM Attack Data Round Close Adj. Conc	ILLUM — B:1500 ICM Attack Data Round Close Adj. Conc Burst

## FH-70 155mm Gun-Howitzer

FH-70 155mm Gun-Howitzer: Developed in the late 1960s as a joint project between Italy, the UK and what was then West Germany, the FH-70 is now found in service with the original three nations and others. It is an advanced, towed, 155mm gun-howitzer capable of firing the full range of NATO standard 155mm rounds. Development of a self-propelled version, the SP-70, was cancelled in 1986.

#### Crew: 10

Round Wt (All Types): 50 kg each

Twilight Weapon Price: \$600,000 (S/R); Merc Weapon Price: \$450,000 (-/R) HE

Twilight: 2000 Price: \$500 (C/S); Merc: 2000 Price: \$140 (--/C) HEAT

Twilight: 2000 Price: \$750 (C/S); Merc: 2000 Price: \$175 (--/C) ICMDP

Twilight: 2000 Price: \$3000 (R/R); Merc: 2000 Price: \$280 (--/S) WP

Twilight: 2000 Price: \$1500 (S/R); Merc: 2000 Price: \$190 (--/R) CHEM

Twilight: 2000 Price: \$500 (S/R); Merc: 2000 Price: \$190 (---/R) ILLUM

Twilight: 2000 Price: \$490 (R/R); Merc: 2000 Price: \$170 (--/S) FASCAM:

Twilight: 2000 Price: \$5000 (R/R); Merc: 2000 Price: \$300 (--/R) Powder Charge

### Charge Wt: 25 kg

Twilight: 2000 Price: \$60 (V/S); Merc: 2000 Price: \$55 (-/C)

Түрө	Round	Rng	Damage	Pen
FH-70	HE	350	C:30, B:36	3C
<i>IFR:</i> 24 km <i>Rk</i> d: 2	HEAT WP	350 350	C:20, B:28 C:3, B:44	110C Nil
	CHEM	350	C:3, B:28	Nil
	ICMDP	—	B:60	Grenade
	ILLUM	_	B:2000	Nil
	FASCAM	_	B:124	Mine





TVDE

## **Heavy Weapons Handbook**

Pen

#### Rng 350 Damage C:30, B:36 M-68 Soltam M-68 HF 3C IFR: 24 km HEAT 350 C:20, B:28 110C 155mm Gun-Howitzer RId: 2 WP 350 C:3. B:44 NI CHEM 350 C:3, B:28 Nil M-68 Soltam 155mm Gun-Howitzer: The M-68 Soltam is an Israeli ICMDP B:60 Grenade design developed to provide a heavy artillery piece for the Israeli army ILLUM B:2000 Nil and for foreign sale to help boost the Israeli economy. FASCAM B:124 Mine Crew: 10 Round Wt: 50 kg each **ICM Attack Data** Twilight Weapon Price: \$700,000 (R/---); Merc Weapon Price: \$500,000 (---/R) Round Close Adj. Conc Burst Pen HE **155 ICMDP** 12 4C 1-4 Twilight: 2000 Price: \$500 (C/S); Merc: 2000 Price: \$140 (-/C) HEAT Twilight: 2000 Price: \$750 (C/S); Merc: 2000 Price: \$175 (--/C) ICMDP Twilight: 2000 Price: \$3000 (R/R); Merc: 2000 Price: \$280 (--/S) WP Twilight: 2000 Price: \$1500 (S/R); Merc: 2000 Price: \$190 (--/R) CHEM Twilight: 2000 Price: \$500 (S/R); Merc: 2000 Price: \$190 (--/R) ILLUM Twilight: 2000 Price: \$490 (R/R); Merc: 2000 Price: \$170 (--/S) FASCAM Twilight: 2000 Price: \$5000 (R/R); Merc: 2000 Price: \$300 (--/R) **Powder Charge** Charge Wt: 25 kg Twilight: 2000 Price: \$60 (V/S); Merc: 2000 Price: \$55 (-/C)

## M-1931 (BM-4M) 203mm Howitzer

M-1931 (BM-4M) 203mm Howitzer: This weapon is the towed version of the heaviest artillery in Russian service. and is basically a modernization of a WWII design. A few may be found in service in other armies.

Crew: 14+ Ammunition Wt: 9 6 kg Weapon Wt: 21.8 tons Twilight: 2000 Ammunition Price: \$900 (S/R) Merc: 2000 Ammunition Price: \$750 (---/R) Twilight: 2000 Weapon Price: \$1,000,000 (R/---) Merc: 2000 Weapon Price: \$850,000 (---/R)

Powder Charge Wt: 22 kg Twilight: 2000 Price: \$600 (S/R) Merc: 2000 Price: \$400 (---/R)

Round







Blowpipe: The Blowpipe is an older, British, shoulder-fired, antiaircraft missile, manufactured for the export market by the British firm of Short Brothers Ltd. *Missile Wt:* 11 kg

Launcher Wt: 6.2 kg Twilight: 2000 Missile Price: \$600 (R/—) Merc: 2000 Missile Price: \$425 (—/S) Twilight: 2000 Launcher Price: \$2500 (R/—) Merc: 2000 Launcher Price: \$1500 (—/S)

















Merc: 2000 Launcher Price: \$20,000(-/S)

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## MBB-7 Venusfliegenfalle

MBB-7 Venusfilegenfalle: This is a German-designed, shoulder-fired, antiaircraft missile with advanced target acquisition and homing characteristics. The MBB-7 Venusfliegenfalle (Venus fly-trap) has only recently entered active service and is rare outside of German forces. This weapon is only available in Merc: 2000 and Dark Conspiracy campaigns since the background does not permit its development in Twilight: 2000.

Missile Wt: 11 kg Launcher Wt: 5 kg Merc: 2000 Missile Price: \$595 (—/R) Merc: 2000 Launcher Price: \$1850 (—/R)






GDW



### Heavy Weapons Handbook



### SA-14 Gremlin

SA-14 Gremlin: Known in Russian service as the PZRK-I (*Perenosiy Zenitniy Raketniy Komplex "Igla"* or portable air defense weapon "needle"), this weapon is an improved version of the SA-7 Grail shoulder-fired antiaircraft missile. Unlike most antiaircraft missiles, it is a single-shot, disposable weapon.

Weapon Wt: 15 kg Twilight: 2000 Missile Price: \$600 (—/R) Merc: 2000 Missile Price: \$400 (—/S) Twilight: 2000 Launcher Price: \$2800 (—/R) Merc: 2000 Launcher Price: \$1450 (—/S)

2	Missile	Rng	Guidance	Acc. Level
as the PZRK-I "or portable air s an improved aircraft missile. le-shot, dispos-	SA-14	8 km	IR	Average
-/R) )				
		-		



Missile

SA-16

Rng

8 km

Guidance

IR

Acc. Level

Average

### SA-16

SA-16: The SA-16 is a Russian-designed, shoulder-fired antiaircraft missile with advanced IR homing capabilities.

Missile Wt: 10.5 kg Launcher Wt: 4.5 kg Twilight: 2000 Missile Price: \$650 (—/R) Merc: 2000 Missile Price: \$450 (—/R) Twilight: 2000 Launcher Price: \$3000 (—/R) Merc: 2000 Launcher Price: \$1650 (—/R)













### B-11 107mm RCL

B-11 107mm RCL: This bulky and hard-to-handle weapon has largely been replaced in Russian service by antitank guided missiles. But it can still be found in second-line units and reserve units, and in the armies of other nations.



Туре

B-11

ROF

Rld

2

Rng

800

Round

HEAT

HE

Damage

C:6, B:12

C:6, B:16

Pen

75C

4C

GDW









Туре

L-6

ROF

1

Rld

2

Rng

450

Round

HE-P

Damage

C:10, B:20 100C

Pen



L-6 Wombat 120mm RCL: The British-built L-6 Wombat recoilless rifle is no longer in active service with the British Army, but it is still found in many armies throughout the world. The weapon is designed to be fired from a vehicle or tripod mount-it is too heavy for shoulder-firing.

Crew: 3

Round Wt: 28 kg Weapon Wt: 230 kg Twilight: 2000 Round Price: \$700(R/---) Merc: 2000 Round Price: \$450 (---/R) Twilight: 2000 Weapon Price: \$60,000 (R/R) Merc: 2000 Weapon Price: \$42,000 (---/R)



	Турө	ROF	Rld	Rng	Round	Damage	Pen
M-59A 82mm RCL	M-59A	1	2	600	HEAT	C:4, B:4	45C
M-59A 82mm RCL: This is a Czech 82mm recoilless rifle designed to use the same rounds as the Russian B-10 and the Chinese Type 65. Crew: 3 Round Wt (HEAT): 3.6 kg Round Wt (HE): 4.5 kg Weapon Wt: 72 kg Twilight: 2000 Round Price: \$550 (—/R) Merc: 2000 Round Price: \$550 (—/R) Merc: 2000 Round Price: \$30,000 (—/R) Merc: 2000 Weapon Price: \$20,000 (—/R)						C:4, B:20	
	Winney.					$\checkmark$	







# M27A1 105mm RCL

M27A1 105mm RCL: An obsolete US recoilless rifle, the M27A1 is now in use by numerous small armies and mercenary groups throughout the world. The weapon is normally carried on a vehicle but may be used with a tripod (NHT) if desired. This weapon is very similar to, but less popular than, the M40A1 106mm RCL because it is heavier and less easily transported.

ansporte Crew: 3

Weapon Wt: 187 kg (with tripod) Round Wt: 16 kg Twilight: 2000 Weapon Price: \$15,000 (S/C) Merc: 2000 Weapon Price: \$12,000 (--/S)

### HEPT

Twilight: 2000 Round Price: \$450 (S/C) Merc: 2000 Round Price: \$300 (—/C)

Турө	ROF	Rld	Rng	Round	Damage	Pen
M27A1	1	2	200	HEAT	C:6, B:12	80C
				HEPT	C:6, B:8	40C

# M40A1 106mm RCL

M40A1 106mm RCL: Another obsolete US recoilless rifle, the M40A1 is lighter than the M27A1, more readily transported, and has a longer range. The weapon can be fired either from a vehicle mount or from a tripod (NHT).

Crew: 3 Weapon Wt: 152 kg (with tripod) Round Wt: 16 kg Twilight: 2000 Weapon Price: \$15,000 (S/C) Merc: 2000 Weapon Price: \$45,000 (--/S)

### HEAT

Twilight: 2000 Round Price: \$275 (S/C) Merc: 2000 Round Price: \$220 (—/S)

#### HEPT

Twilight: 2000 Round Price: \$450 (S/C) Merc: 2000 Round Price: \$300 (—/C)

Турө	ROF	Rld	Rng	Round	Damage	Pen
40A1	1	2	300	HEAT	C:6, B:12	80C
				HEPT	C:6, B:8	40C





### M67 90mm RCL

M67 90mm RCL: One of the last recoilless rifle models in American service, some M67s are still found in service with the National Guard and 82nd Airborne Division, and with numerous other armies. The M67 can be fired from the shoulder, from a vehicle or from a tripod mount (NHT).

#### Crew:2

Weapon Wt: 38 kg Round Wt: 4 kg Twilight: 2000 Weapon Price: \$20,000 (R/---) Merc: 2000 Weapon Price: \$12,000 (---/S)

#### HEAT

Twilight: 2000 Round Price: \$475 (R/----) Merc: 2000 Round Price: \$375 (--/S)

#### HE

Merc: 2000 Round Price: \$350 (--/S)

#### APERS

Merc: 2000 Round Price: \$400 (---/R)

Туре	ROF	Rld	Rng	Round	Damage	Pen
M67	1	1	100	HEAT	C:6, B:12	70C
				HE	C:4, B:16	4C
				APERS	C:4, B: 24	4C

# SPG-9 73mm RCL

SPG-973mm RCL: The SPG-9 is a tripod-mounted weapon similar to the 73mm gun mounted in the turret of the BMP and BMP APCs. However, the SPG-9 differs in its propelling charge. The 73mm rounds fired from the SPG-9 are kicked out of the launcher by a small propelling charge. Then, about 20 meters down-range, a rocket propellant kicks in and boosts the round the rest of the way to the target.

#### Crew:2

### HEAT

Round Wt: 3.6 kg Twilight: 2000 Round Price: \$500 (---/R) Merc: 2000 Round Price: \$250 (-/S)

#### HE

Round Wt: 4.5 kg Twilight: 2000 Round Price: \$550 (---/R) Merc: 2000 Round Price: \$300 (---/S)





### GDW



Type 56 RCL: The Type 56 is an unlicensed copy of the US M20 75mm recoilless rifle, manufactured by various Chinese warlords and first encountered by the People's Army in Korea in the early 1950s. It can also fire the M20 75mm RCL's HEPT rounds.

#### Crew: 3

Round Wt: 10 kg Weapon Wt: 67 kg Twilight: 2000 Round Price: \$400 (-/S) Merc: 2000 Round Price: \$220 (-/S) Twilight: 2000 Weapon Price: \$16,000 (--/R) Merc: 2000 Weapon Price: \$550,000 (--/R)



GDW



### Heavy Weapons Handbook



### AM2 B9 Vasilek 82mm Automatic Mortar

AM2 B9 Vasilek 82mm Automatic Mortar: Standard medium mortar for the Warsaw Pact, the Vasilek is a clip-fed automatic mortar. It is mounted on a wheeled carriage to allow it to be towed behind a vehicle. The mortar is usually fired from its carriage, like a small field gun, and requires 12 combat turns to set up. The Vasilek is listed here because it is labeled a mortar, but its characteristics have caused the designers to classify it as an autocannon for the purposes of the firing system (note that, unlike other mortars, it has direct-fire characteristics as well as indirect-fire ones). *Crew*: 3

#### HE

Twilight: 2000 Round Price: \$300 per clip (S/C) Merc: 2000 Round Price: \$60 per clip (--/S)

#### HEDP

Twilight: 2000 Round Price: \$600 per clip (R/S) Merc: 2000 Round Price: \$65 per clip (-/R)

#### WP

Twilight: 2000 Round Price: \$300 per clip (R/S) Merc: 2000 Round Price: \$75 per clip (—/R)

#### ILLUM

Twilight: 2000 Round Price: \$150 per clip (R/S) Merc: 2000 Round Price: \$70 per clip (—/R)





### L5 81mm Mortar

L5 81mm Mortar: The standard mortar for the Canadian Army, gradually being replaced by a 60mm mortar similar to the US M224.

Crew: 3

Wt: 40 kg (bipod, 15 kg; baseplate, 10 kg; tube, 15 kg) Ammo Wt (All Types): 25 kg per case of three Twilight: 2000 Weapon Price: \$10,000 (C/S) Merc: 2000 Weapon Price: \$8000 (-/R)

#### HE

Twilight: 2000 Round Price: \$150 per case (C/S) Merc: 2000 Round Price: \$36 per case (—/C)

#### WP

Twilight: 2000 Round Price: \$300 per case (S/R) Merc: 2000 Round Price: \$48 per case (-/S)

#### ILLUM

Twilight: 2000 Round Price: \$150 per case (S/R) Merc: 2000 Round Price: \$45 (--/S)



# L16A2 81mm Mortar

# L16A2 81mm Mortar: This is the standard medium mortar for the British Army.

Crew: 3

Wt: 40 kg (bipod, 15 kg; baseplate, 10 kg; tube, 15 kg) Ammo Wt (All Types): 25 kg per case of three Twilight: 2000 Weapon Price: \$10,000 (C/S) Merc: 2000 Weapon Price: \$8000 (-/V)

#### HE

Twilight: 2000 Round Price: \$150 per case (C/S) Merc: 2000 Round Price: \$36 per case (—/C)

#### WP

Twilight: 2000 Round Price: \$300 per case (S/R) Merc: 2000 Round Price: \$48 per case (-/S)

#### ILLUM

Twilight: 2000 Round Price: \$150 per case (S/R) Merc: 2000 Round Price: \$45 (--/S)

Type	Round HE	Damage		
L16A2		C:8, B:28		
<i>IFR:</i> 4.5 km	WP	C:2, B:20 B:1000	Nil Nil	



### M-1937 82mm Mortar

M-1937 82mm Mortar: The M-1937 was the standard Soviet light mortar during WWII. With improved sights, it continues in service with dozens of armies today (although other types have replaced it in Russian service).

Crew: 3

Round Wt (All Types): 50 kg per case of five Twilight: 2000 Weapon Price: \$ 8000 (R/C) Merc: 2000 Weapon Price: \$ 6000 (—/S)

#### HE

Twilight: 2000 Round Price: \$300 per case (S/C) Merc: 2000 Round Price: \$60 per case (—/S)

#### WP

Twilight: 2000 Round Price: \$300 per case (R/S) Merc: 2000 Round Price: \$75 per case (---/R)

#### ILLUM

Twilight: 2000 Round Price: \$150 per case (R/S) Merc: 2000 Round Price: \$70 per case (—/R)

	Туре	Round	Damage	Pen
	M-1937	HE	C:8, B:28	-4C
	IFR: 4 km	WP	C:2, B:20	Nil
	•	ILLUM	B:1000	Nil
C)				
		)		
/				
	<b>K</b>			
4				
		- M		
	7 .			
		8		
1		v		

# M-1943 120mm Mortar

M-1943 120mm Mortar: Standard heavy mortar for the Warsaw Pact and most western European armies. It can be disassembled into three loads (bipod, baseplate, tube) for easier transportation. A wheeled carriage is also provided to allow the assembled weapon to be towed behind a vehicle. The mortar may not be fired from its carriage. Individual rounds are dropped down the tube by the loader. It requires 12 combat turns to set up. This weapon is produced in China as the Type 55 120mm mortar.

Crew: 4

Weapon Wt: 520 kg (bipod, 70 kg; baseplate, 90 kg; tube, 120 kg; wheeled carriage, 240 kg)

Round Wt (All Types): 50 kg per case of two Twilight: 2000 Price: \$15,000 (C/C) Merc: 2000 Price: \$12,000 (--/S)

#### ΗE

Twilight: 2000 Round Price: \$200 per case (C/C) Merc: 2000 Round Price: \$72 per case (—/S)

#### WP

Twilight: 2000 Round Price: \$400 per case (R/R) Merc: 2000 Round Price: \$80 per case (—/R)

#### CHEM

Twilight: 2000 Round Price: \$250 per case (S/S) Merc: 2000 Round Price: \$85 per case (—/R)

#### ILLUM

Twilight: 2000 Round Price: \$200 per case (R/R) Merc: 2000 Round Price: \$85 per case (—/R)





Type

M-1952

IFR: 9.7 km

Round

HE

Damage

C:40, B:48

Pen

-4C

### M-1952 240mm Mortar

M-1952 240mm Mortar: The M-1952 is the largest mortar in the Soviet inventory (or in anyone else's inventory, for that matter). It is so large and cumbersome that it is used only in front-level heavy mortar battalions (something the Soviets don't have many of by 2000). Originally developed for urban fighting, the M-1952 is breech-loaded, fired by a trigger rather than by the conventional "muzzle-drop" method used in most mortars. Only HE rounds are available.

Crew: 8 Round Wt: 130 kg each Weapon Wt: 3.6 tons Twilight: 2000 Round Price: \$4000 (—/R) Merc: 2000 Round Price: \$2000 (—/R) Twilight: 2000 Weapon Price: \$45,000 (—/R) Merc: 2000 Weapon Price: \$35,000 (—/R)

# M-1953 160mm Mortar

M-1953 160mm Mortar: Like the M-1952, the M-1953 is too large for active service and is quite rare. The M-1953 can be breech-loaded or fired conventionally. Only HE and chemical smoke rounds (HC) are available. This weapon is produced in China as the Type 56 160mm mortar.

Crew: 6 Round Wt (All Types): 50 kg each

Weapon Wt: 3.6 tons Twilight: 2000 Round Price: \$120 (—/R) Merc: 2000 Round Price: \$180 (—/R) Twilight: 2000 Weapon Price: \$30,000 (—/R) Merc: 2000 Weapon Price: \$25,000 (—/R)





### M29E1 81mm Mortar

M29E1 81mm Mortar: The M29E1 was the standard light mortar with the US Army until it was replaced by the lighter 60mm designs in the mid-1980s.

Crew: 3

Round Wt (All Types): 25 kg per case of three Wt: 40 kg (bipod, 15 kg; baseplate, 10 kg; tube, 15 kg) Twillg Merc:

#### HE

Twilig Merc:

#### WP

Twilight: 2000 Round Price: \$300 per case (S/R) Merc: 2000 Round Price: \$48 per case (---/S)

#### ILLUM

Twilight: 2000 Round Price: \$150 per case (S/R) Merc: 2000 Round Price: \$45 (---/S)

U kg (bipod, 15 kg; basepiate, 10 kg; tube, 15 kg)					
ght: 2000 Weapon Price: \$10,000 (C/S)	Туре	Round	Damage	Pen	
: 2000 Weapon Price: \$8000 (/S)	M29E1	HE	C:8, B:28	-4C	
	/ IFR: 4.5	km WP	C:2, B:20	Nil	
D		ILLUM	B:1000	Nil	
ght: 2000 Round Price: \$150 per case (C/S) : 2000 Round Price: \$36 per case (—/C)	E				
	N				

# M30 4.2" (107mm) Mortar

M30 4.2"(107mm) Mortar: This is the standard heavy mortar for the US Army. It can be disassembled into three loads (monopod, baseplate, tube) for easier transportation. Individual rounds are dropped down the tube by the loader. The M30 requires 12 combat turns to set up.

Crew: 4

Round Wt: 35 kg per case of two

Weapon Wt. 300 kg (monopod, 80 kg; baseplate, 100 kg; tube, 120 kg)

Twilight: 2000 Weapon Price: \$12,000 (C/S) Merc: 2000 Weapon Price: \$10,000 (--/S)

#### HE

Twilight: 2000 Price: \$200 per case (C/S) Merc: 2000 Price: \$48 per case (-/S)

The 4.2" mortar is nicknamed the "Four-Deuce" in the US Army. The mortar was developed in WWII to hurl chemical rounds (primarily smoke), but was soon used as a heavy bombardment weapon.



#### ICMDP

Twilight: 2000 Price: \$2000 per case (R/R) Merc: 2000 Price: \$600 per case (---/R)

#### WP, CHEM and ILLUM

Twilight: 2000 Price: \$200 per case (S/R) Merc: 2000 Price: \$55 per case (-/S)



### M224 60mm Mortar

M224 60mm Mortar: The standard light mortar for the US Army, the M224 can be disassembled into three loads (bipod, baseplate, tube) for easier transportation. Individual rounds are dropped down the tube by the loader. It requires two combat turns to set up.

Crew:3 Weapon Wt: 20 kg (bipod, 8 kg; baseplate, 4 kg; tube, 8 kg) Pen Round Damage Туре M224 Round Wt (All Types): 25 kg per case of 12 HE C:5, B:20 Nil Twilight: 2000 Weapon Price: \$5000 (C/S) WP Nil IFR: 4 km C:2, B:12 Merc: 2000 Weapon Price: \$6500 (---N) Nil ILLUM B:400 HE Twilight: 2000 Price: \$150 per case (C/S) Merc: 2000 Price: \$72 per case (-/C)

### Merlin

Merlin: Merlin is a British-built, 81 mm, antitank mortar round with internal targeting electronics. It is fired in conventional fashion. The weapon's guidance system activates at the top of the trajectory, and its IR seeker begins scanning an area 320 meters square. When a target is located, the fins on the round guide the trajectory of the bomb toward the target. For game purposes, treat the Merlin as if it were a wire-guided missile, except that the round itself counts as the firer (and has a default Heavy Weapons skill of 5). The weapon can be fired from any 81mm or 82mm mortar (except the AM2 B9 Vasilek) at any 320-meter-square area (40 eight-meter squares) within range. (If more than one target is in the square, the referee chooses one at random. If none are in the area, the round self-destructs on impact with the ground.) Merlin is an overhead-attack weapon like Tank Breaker.

Wt: 6 kg Twilight: 2000 Price: \$7000 (--/---) Merc: 2000 Price: \$3600 (--/R)

### WP

Twilight: 2000 Price: \$600 per case (S/R) Merc: 2000 Price: \$75 per case (--/S)

#### ILLUM

Twilight: 2000 Price: \$300 per case (S/R) Merc: 2000 Price: \$75 per case (--/S)

	Ĩ				
	Турө	Rid	Max. Rng	Damage	Pen
	Merlin	2	4500	C:5, B:5	20C
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anning an area					
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d the target. For					
e a wire-guided					
as the firer (and weapon can be					
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round.) Merlin is ker.	S	_			
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	77				
	<b>X</b>				
c	36				
c	0				

GDW



### Strix

StrIx: Strix is a Swedish, IR-guided, antitank mortar round designed for use in 120mm mortars. It is fired in conventional fashion. The weapon's guidance system activates at the top of the trajectory, and its IR seeker begins scanning an area 320 meters square searching for targets. When a target is located, the fins on the round guide the trajectory of the bomb towards the target.

For game purposes, treat the Strix as if it were a wire-guided missile, except that the round itself counts as the firer (and has a default Heavy Weapons skill of 5).

The weapon can be fired from any 120mm mortar at any 320-meter-square area (40 eight-meter squares) within range. (If more than one target is in the square, the referee chooses one at random. If none are in the area, the round self-destructs on impact with the ground.)

Strix is an overhead attack weapon like Tank Breaker. Wt: 24 kg

Twilight: 2000 Price: \$20,000 (--/---) Merc: 2000 Price: \$12,000 (--/R)



### Thompson-Brandt 120mm Mortar

Thompson-Brandt 120mm Mortar: This is a French-built, heavy mortar in service with many armies throughout the world. Like most other heavy mortars, it comes with a wheeled carriage and is usually towed behind a light truck or APC.

#### Crew: 4

Wt: 520 kg (bipod, 70 kg; baseplate, 90 kg; tube, 120 kg; wheeled carriage, 240 kg)

Round Wt (All Types): 50 kg per case of two Twilight: 2000 Price: \$15,000 (C/C) Merc: 2000 Price: \$12,000 (--/S)

#### HE

Twilight: 2000 Round Price: \$200 per case (C/C) Merc: 2000 Round Price: \$72 per case (—/S)

#### WP

Twilight: 2000 Round Price: \$400 per case (R/R) Merc: 2000 Round Price: \$80 per case (—/R)

#### CHEM

Twillght: 2000 Round Price: \$250 per case (S/S) Merc: 2000 Round Price: \$85 per case (—/R)

#### ILLUM

Twilight: 2000 Round Price: \$200 per case (R/R) Merc: 2000 Round Price: \$85 per case (—/R)





### GDW

### Wojo Combo Mortar

Wojo Combo Mortar: Produced by the Wojchiechowiecz armaments factory in Krakow, the Wojo combination mortar will fire either 81 or 82mm rounds, and comes with a number of wooden sabots to enable it to use 60mm rounds. When the weapon is firing 60mm rounds, indirect fire range is reduced by 10%, but all other factors remain the same. The Wojo Combo is typical of a number of mortars built by small, hand-work factories in the world of Twillght: 2000. Wojo products are unavailable in Merc: 2000 or other games.

Crew: 2-3 Wt: 40 kg Twilight: 2000 Price: \$8000 (C/C)

# KhF-2 Chemical Mine

KhF-2 Chemical Mine: This is a Soviet-built, contact-triggered mine containing a 4.5-kilogram chemical charge, usually a blister agent (mustard gas or lewisite). The mine requires the pressure of 20 kilograms or more for detonation of the bursting charge, which scatters the contents over the burst radius in one five-second combat phase. These mines are not commonly encountered. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 15 kg Twillght: 2000 Price: \$1400 (—/R) Merc: 2000 Price: \$800 (—/—)





### M14 APERS Mine

M14 APERS Mine: The M14 is a small antipersonnel mine designed to detonate on contact, any pressure being sufficient to trigger it. Fragmentation damage and penetration are as noted on page 197 of Twilight: 2000. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 3 kg Twilight: 2000 Price: \$75 (S/R) Merc: 2000 Price: \$65 (—/S)

Туре	Damage	Pen
M14	C:8, B:16	Fragments

Damage

C:22, B:22

Pen

30C



Type

M15

# M15 Heavy AT Mine

M15 Heavy AT Mine: This mine is designed to blow the tracks off armored vehicles. It requires the pressure of 150 kilograms or more for detonation (although it has a port on the side to accept a standard blasting cap for command detonation using the engineer's demolition kit). One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 14 kg each, 30 kg per case of two Twilight: 2000 Price: \$1000 each, \$2100 per case (R/---) Merc: 2000 Price: \$650, \$1100 per case (---/S)





### M16A1 APERS Mine

M16A1 APERS Mine: This is a bounding APERS mine, which means that when triggered, it bounds into the air about a meter before exploding, directing most of its fragments horizontally. Fragmentation damage and penetration is as noted on page 197 of Twilight: 2000. The M16A1 requires the pressure of 20 kg or more to trigger it, although some are rigged with more sensitive detonators such as tripwires (if rigged with a tripwire, it can be of any length desired, and any contact is sufficient to trigger the mine). One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 4 kg, 18 kg per case of four

Twilight: 2000 Price: \$80 each, \$300 per case (S/R) Merc: 2000 Price: \$110 each, \$375 per case (--/C)



# M18A1 APERS Claymore Mine

M18A1 APERS Claymore Mine: This is a directional antipersonnel mine and is discussed in some detail in Twilight: 2000. Each mine comes in a canvas carrying case containing the mine, detonator, 30 meters of wire and a small blasting machine (usable only with the M18A1). Burst radius, fragmentation damage and penetration are as noted on page 197 of Twilight: 2000. One person may emplace this mine in three minutes and conceal it in an additional three minutes.

Wt: 2 kg each, 14 kg per case of six

*Twilight: 2000 Price:* \$250 each, \$800 per case (S/R) *Merc: 2000 Price:* \$240 each, \$1200 per case (—/C)



M19 Plastic Heavy AT	<i>Туре</i>	<i>Damage</i>	Pen
	M19 AT	C:22, B:22	30C
<text></text>			
Mathematical and the service with smaller armies which cannot obtain better. It requires 150 kilograms of pressure for detonation. One person may emplace this mine in the minutes and conceal it in an additional five minutes.   W: 8 kg   Willight: 2000 Price: \$100 (S/R)   Merc: 2000 Price: \$125 (-/S)	Type	Damage	<u>Pen</u>
	M21 AT	C:18, B:18	24C



### M23 Chemical Mine

M23 Chemical Mine: This is an American-built mine containing a five-kilogram chemical charge (any of the chemical agents described in the rules are possible). The mine requires the pressure of 20 kilograms or more for detonation of the bursting charge, which scatters the contents over the burst radius in one five-second combat phase. These mines are not commonly encountered. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

### Wt: 12 kg

Merc: 2000 Price: \$1800 (--/--)



# M24 Off-Route AT Mine

M24 Off-Route AT Mine: This mine fires a shaped charge against the side of any vehicle which rolls over a three-meter wide pneumatic detonator (similar to the bell tube at a gas station). Or the mine can be set off from a remote position up to 30 meters away. The charge hits the suspension on a 1D10 roll of 1-6, hits the HS on 7-9, and misses completely on 10. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Type Damage Pen M24 AT

C:6, B:4 90C





### M25 APERS Mine

M25 APERS Mine: This is a shaped charge mine designed to direct its energy straight up when detonated. Any contact is sufficient to detonate the mine. Due to the special characteristics of this mine, only the limb which detonates the mine takes damage from 1D6 fragments, as described on page 197 of Twilight: 2000. No other locations or other individuals take damage. One person may emplace this mine in one minute and conceal it in an additional two minutes.

Wt: 0.1 kg, 16 kg per case of 150 Twilight: 2000 Price: \$20 each, \$2700 per case (S/R) Merc: 2000 Price: \$25 each, \$2800 per case (—/R)



# M26 APERS Mine

M26 APERS Mine: The M26 is another bounding antipersonnel mine like the M16A1, but is smaller. When triggered, the mine bounds into the air before exploding, throwing most of its fragments horizontally. Any pressure is sufficient to trigger the mine. Fragmentation damage and penetration are as noted on page 197 of Twilight: 2000. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 1 kg Twilight: 2000 Price: \$80 (S/R) Merc: 2000 Price: \$90 (—/S)





### Damage Pen M66 Off-Route AT Mine Type M26 AT C:6, B:4 900 M66 Off-Route AT Mine: This mine fires a shaped charge against the side of any vehicle which breaks an infrared beam (similar to the door-opener at some supermarkets). Or it can be set off from a remote position up to 30 meters away. The charge hits the suspension on a 1D10 roll of 1-6, hits the HS on 7-9, and misses completely on 10. This mine requires seven minutes to emplace and synchronize. One person may emplace (but not synchronize) this mine in five minutes and conceal it in an additional five minutes. Wt: 8 kg Merc: 2000 Price: \$1500 (---/R)

# **MON-50 APERS Mine**

MON-50 APERS Mine: This mine is a Soviet copy of the M18A1 directional antipersonnel mine, whose effects are described in Twilight: 2000. Fragmentation damage and penetration are as noted on page 197 of Twilight: 2000. One person may emplace this mine in three minutes and conceal it in an additional three minutes.

#### Wt: 2 kg

Twilight: 2000 Price: \$220 each, \$750 per case (--/S) Merc: 2000 Price: \$230 each, \$1000 per case (--/C)





### **PM APERS Mine**

PM APERS Mine: The PM is a Soviet antipersonnel mine, designed to be small and easily concealed. Any contact is sufficient to trigger the shaped charge, designed to project most of its fragments straight up. Due to the special characteristics of this mine, only the limb which detonates the mine takes damage from 1D6 fragments, as described on page 197 of Twilight: 2000. No other locations or other individuals take damage. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 2 kg Twilight: 2000 Price: \$25 (R/S) Merc: 2000 Price: \$35 (--/S)

Туре	Damage	Pen
PM APERS	Special	Fragments



# **POMZ-2 APERS Mine**

**POMZ-2 APERS Mine:** This is a stake mine, which means that the mine can be emplaced quickly but protrudes from the surface of the ground (it can be concealed by draping it carefully with foliage, etc.). The mine is detonated by a tripwire, which can be any length desired. Any contact with the tripwire triggers the mine. One person may emplace this mine in two minutes and conceal it in an additional three minutes.

#### Wt: 2 kg Twilight: 2000 Price: \$200 (---/S) Merc: 2000 Price: \$250 (---/S)







TM-57 AT Mine: Like the TM-46, the TM-57 is a conventional, steel-case antitank mine. The TM-57, however, is smaller and requires 150 kilograms or more for detonation.

One person may emplace this mine in five minutes and conceal it in an additional five minutes. *Wt*: 9.5 kg

Twillght: 2000 Price: \$215 (R/S) Merc: 2000 Price: \$215 (-/S)





Damage

C:16, B:40

Pen

24C



# YaM5 AT Mine

YaM5 AT Mine: This is a small, Soviet-built antitank mine requiring 136 kilograms to detonate. One person may emplace this mine in five minutes and conceal it in an additional five minutes.

Wt: 8 kg Twilight: 2000 Price: \$200 (R/S) Merc: 2000 Price: \$175 (--/S)



Туре

YaM5 AT



### HAFLA (Handflampatronen)

HAFLA (Handflampatronen): The Handflampatronen (hand flame cartridge) is a single-shot, disposable flamethrower manufactured in Germany. The weapon projects a slug which scatters white phosphorus fragments inside its burst radius. Handle these fragments as detailed under Burns on page 198 of Twilight: 2000.

Wt: 0.6 kg

Twilight: 2000 Price: \$400 (R/----) Merc: 2000 Price: \$600 (R/----)

Туре	ROF	Rld	Rng	Round	Damage	Pen
HAFLA	1	•	10	ICEN	C:1, B:12	Fragments
*Single	-shot dis	posab	le. Can	not be re	loaded.	
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	201 00 100 1	16 C C C C C C C C C C C C C C C C C C C	Seator Parks		1 Contraction of the local sectors of the local sec	

# LPO-50 Flamethrower

LPO-50 Flamethrower: Flamethrowers squirt a stream of flammable fuel at their targets, using compressed gas (nitrogen is preferred) as a propellant. This stream may be "cold" (unignited) or "hot" (ignited) at the firer's option. Ignition is achieved by a "glow plug" attachment at the nozzle.

Each hot shot covers an area four meters on a side with fuel which will continue to burn for one minute (12 combat phases) or until extinguished (other flammable items in the area may be ignited and burn longer). The fuel is usually napalm (jellied gasoline) but can be ordinary gasoline (at half the ranges noted). Fuel cannisters have an armor value of 1, and a hit on one is resolved as a fuel hit on a vehicle.

Fuel Cannister Wt: 20 kg Weapon Wt: 23 kg Mag: 5 Twilight: 2000 Fuel Cannister Price: \$300 (R/---) Merc: 2000 Fuel Cannister Price: \$350 (--/S) Twilight: 2000 Weapon Price: \$1100 (S/R) Merc: 2000 Weapon Price: \$1200 (--/S) —Recoil— <u>Weapon ROF Dam Pen Blk Mag SS Brst Rng</u> LPO-50 SA \* Nil 4 5 4 — 5 \*Damage by burning gasoline is covered on page 198 of

Twilight: 2000.









#### 122mm Rocket Round Rng Damage Pen Туре 122mm rocket HE C:16, B:44 1C 122mm Rocket: During the Vietnam War, 122mm rockets IFR: 11 km CHEM C:4, B:30 Nil were set up on improvised launchers (often nothing more than Rkd:2 WP · C:3, B:44 Nil a convenient rock or a couple of sandbags) and fired singly or in groups. Accuracy was terrible, but since the targets were cities and large military bases, that was not viewed as a great disadvantage. Irregular forces in several subsequent conflicts made use of the technique. The statistics below are for the shortened, one-section version of the 122mm rocket (a second section is attached to rockets fired from a launcher). All shots fired count as indirect fire, and target corrections are not possible. Deviations are doubled. Wt: 46 kg Twilight: 2000 Price: \$350 (--/S) Merc: 2000 Price: \$250 (-/S)

### **RPU-14 140mm MRL**

**RPU-14 140mm MRL:** This is the towed version of the 16tube BM-14 multiple rocket launcher system developed by the Soviets for use by paratroop units. This weapon's rate of fire is six rockets perfive-second combat phase. All shots fired by this weapon count as indirect fire, and target corrections are not possible. Deviations are doubled.

Crew: 6 Rocket Wt: 39.6 kg Launcher Wt: 1.2 tons Twilight: 2000 Rocket Price: \$320 (—/S) Merc: 2000 Rocket Price: \$225 (—/S) Twilight: 2000 Launcher Price: \$15,000 (—/R) Merc: 2000 Launcher Price: \$10,000 (—/R)

Турө	Round	Rng	Damage	Pen
RPU-14 MRL	HE	_	C:12, B:32	1C
IFR: 9.8 km	CHEM	_	C:4, B:24	Nil
Rkd: 10	WP	_	C:3, B:32	Nil





WP-8 140mm MRL: The WP-8 is an 8-tube version of the RPU-14 multiple rocket launcher. All shots fired by this weapon count as indirect fire, and target corrections are not possible. Deviations are doubled. <i>Crew:</i> 4 <i>Rocket Wt (All Types):</i> 39.6 kg <i>Launcher Wt:</i> 800 kg	<u>Typ</u> e WP-8 MRL <i>IFR:</i> 9.8 km <i>Rkd:</i> 8	Round HE CHEM WP	<u>Rng</u> — —	Damage C:12, B:32 C:4, B:24 C:3, B:32	Pen 1C Nil Nil
Twillight: 2000 Rocket Price: 320 (/S) Merc: 2000 Rocket Price: \$225 (/S) Twilight: 2000 Launcher Price: \$12,000 (/S) Merc: 2000 Launcher Price: \$10,000 (/S)	<b>3</b>				



### **RM-70 122mm MRL**

**RM-70 122mm MRL:** The RM-70 is a 40-tube, 122mm multiple rocket launcher mounted on a Czech Tatra truck chassis with an armored cab (armor factor 3) for protection against fragments during counterbattery fire. The truck also carries an additional 40 rockets in a rack, ready to be slipped into position by machinery (Rld 4). The reload rate given below refers to the time it takes to reload the truck by hand after all rockets have been fired. All shots fired by this weapon count as indirect fire, and target corrections are not possible.

Crew: 6-8 Rocket Wt: 77 kg Launcher Wt: 500 kg Twilight: 2000 Rocket Price: \$350 (—/S) Merc: 2000 Rocket Price: \$250 (—/S) Twilight: 2000 Launcher Price: \$100,000 (—/R) Merc: 2000 Launcher Price: \$80,000 (—/R)

Туре	Round	Rng	Damage	Pen
RM-70 MRL	HE	_	C:16, B:44	1C
IFR: 21 km	CHEM		C:4, B:30	Nil
RId: 40	WP	—	C:3, B:44	Nil





## **BM-27 220mm MRL**

**BM-27 220mm MRL:** The BM-27, nicknamed the *Urugan* (hurricane) by Russian soldiers, is one of the most recent additions in a long line of multiple rocket launchers dating back to the WWII *Katyusha*. The 16-tube launcher is mounted on the back of a heavy truck similar in performance to the US five-ton truck. All shots fired by this weapon count as indirect fire, and target corrections are not possible.

Crew: 10 Rocket Wt: 360 kg Launcher Wt: 22.5 tons Twilight: 2000 Rocket Price: \$800 (—/R) Merc: 2000 Rocket Price: \$600 (—/R) Twilight: 2000 Launcher Price: \$45,000 (—/R) Merc: 2000 Launcher Price: \$35,000 (—/R)

Туре	Round	Rng	Damage	Pen
BM-27 MRL	HE	-	C:26, B:38	4C
IFR: 40 km	CHEM	-	C:4, B:30	Nil
<i>Rld:</i> 24	WP		C:4, B:46	Nil
	ICMDP	-	B:60	Grenade*
	FASCAM		B:124	Mine

\*Use 203mm ICMDP Attack Table on page 259.



ALSALAN TEGEL The Gazetteer is a sourcebook for global hot spots in the strife-torn world of Merc: 2000. From the coup in Tonga to the border dispute between the Russian Republic and Japan; from the Second Nigerian Civil War to the Basque insurgency in Spain; from the frigid steppes of central Asia to the steaming jungles of South America; from the battlefields of west Africa to the crime-torn city streets of America; the Gazetteer covers them all. Every aspect of warfare in the year 2000 and beyond is presented, ranging from brushfire wars in remote parts of the globe, to terrorist activities in our own backyard.

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Every major world trouble-spot in the year 2000 is covered with by maps, a background summary of the conflict, military organizations of the participants and suggestions for conduct of adventure scenarios as part of that conflict.

Although it is intended for use with Merc: 2000, most of the information presented in the Gazetteer can also be used with Twilight: 2000, GDW's role-playing game of survival in a devastated world. No player or referee can afford to be without the Merc: 2000 Gazetteer. GDW 2008-\$14.00

