

# SALW Guide

Global distribution and visual  
identification




























## Singapore

### Country report

<https://salw-guide.bicc.de>

# Weapons Distribution

The following list shows the weapons which can be found in *Singapore* and whether there is data on who holds these weapons:

AR 15 (M16/M4)	 	
Browning M 2		
Carl Gustav recoilless rifle		
Daewoo K1 / K2		
FN FAL		
FN Herstal FN MAG	 	
FN High Power		
FN P90		
HK MP5		
IGLA (SA-16 / SA-18)		
Lee-Enfield SMLE		
M203 grenade launcher		
Remington 870P		
RPG 7		
Sterling MP L2A3		

## Explanation of symbols



Country of origin



Licensed production



Production without a licence



*Government*: Sources indicate that this type of weapon is held by Governmental agencies.



*Non-Government*: Sources indicate that this type of weapon is held by non-Governmental armed groups.



*Unspecified*: Sources indicate that this type of weapon is found in the country, but do not specify whether it is held by Governmental agencies or non-Governmental armed groups.

It is entirely possible to have a combination of tags beside each country. For example, if country X is tagged with a G and a U, it means that at least one source of data identifies Governmental agencies as holders of weapon type Y, and at least one other source confirms the presence of the weapon in country X without specifying who holds it.

**Note:** This application is a living, non-comprehensive database, relying to a great extent on active contributions (provision and/or validation of data and information) by either SALW experts from the military and international renowned think tanks or by national and regional focal points of small arms control entities.

## AR 15 (M16/M4)

The heart of the AR-15 is the direct gas system. This system uses no conventional gas piston and rod to propel bolt group back after the shot is fired. Instead, the hot powder gases are fed from the barrel and down to the stainless steel tube into the receiver. Inside the receiver, the rear end of the gas tube enters into the "gas key", a small attachment on the top of the bolt carrier. The hot gases, through the gas key, enter the hollow cavity inside the bolt carrier and expands there, acting against the bolt carrier and the collar around the bolt body. The pressure of the gases causes the bolt carrier to move back against initially stationary bolt. At least 8 million items were produced. The CQ is a variant of the AR-15 rifle manufactured by the Chinese arms company, NORINCO. The "Terab" rifle is a clone of the Norinco CQ manufactured by the MIC (Military Industry Corporation) of Sudan. The "Armada" rifle is a clone of the Norinco CQ manufactured by S.A.M. - Shooter's Arms Manufacturing, a.k.a. Shooter's Arms Guns & Ammo Corporation, in the Philippines. The CQ/Terab has been observed in South Sudan used by some rebel groups in 2013.



<b>Category</b>	<i>Assault Rifles</i>
<b>Operating system</b>	Gas operated, rotating bolt
<b>Cartridge</b>	5.56 x 45mm / .223 Remington
<b>Length</b>	986 mm
<b>Feeding</b>	Box magazine

The following ammunition can be used by the **AR 15 (M16/M4)**:

### 5.56 x 45mm / .223 Remington

Bullet diameter	5.7 mm
Case length	44.7 mm
Overall length	57.4 mm



## Browning M 2

The Browning .50 caliber machine gun has been used extensively as a vehicle weapon and for aircraft armament. The M2 fires from a closed bolt, operated on the short recoil principle. Nearly 5 million items were produced.



<b>Category</b>	<i>Heavy Machine Guns</i>
<b>Operating system</b>	Fires from a short bolt, operated on the short recoil principle
<b>Cartridge</b>	12.7 x 99 mm NATO (.50BMG)
<b>Length</b>	1650 mm
<b>Feeding</b>	Belt

The following ammunition can be used by the **Browning M 2**:

### 12.7 x 99 mm NATO (.50BMG)

Bullet diameter	13 mm
Case length	99 mm
Overall length	138 mm

NO IMAGE

## Carl Gustav recoilless rifle

The Carl Gustav can be fired from the standing, kneeling, sitting or prone positions. A bipod may be attached in front of the shoulder piece. An operating handle called a "Venturi lock" is used to move the hinged breech to one side for reloading. The weapon is normally operated by a two-man crew, one carrying and firing the weapon, the other carrying ammunition and reloading.



<b>Category</b>	<i>Recoilless Guns/Rifles</i>
<b>Operating system</b>	Recoilless launch
<b>Cartridge</b>	
<b>Length</b>	1130 mm
<b>Feeding</b>	hinged breech

The following ammunition can be used by the **Carl Gustav recoilless rifle**:

## Daewoo K1 / K2

The South Korean Daewoo K1A was developed as a short-barrelled version of the K2 assault rifle explaining their technical and physical resemblance. The K1A is the enhanced version of the previous mass produced K1 rifle. Furthermore, the rifles combine technical elements of the operating systems from the AR15/M16-rifles and the AK-series. Both the K1 and K2 are still in production and in service within the South Korean Armed Forces. *length depends on the model: - Daewoo K1A: 838 mm stock extended - Daewoo K2: 980 mm butt extended*



<b>Category</b>	<i>Assault Rifles</i>
<b>Operating system</b>	gas piston, selective fire with 3rd burst
<b>Cartridge</b>	5.56 x 45mm / .223 Remington
<b>Length</b>	838 mm
<b>Feeding</b>	detachable, box magazine

The following ammunition can be used by the **Daewoo K1 / K2**:

## 5.56 x 45mm / .223 Remington

Bullet diameter	5.7 mm
Case length	44.7 mm
Overall length	57.4 mm



## FN FAL

The FN FAL (Fusil Automatique Leger - Light Automatic Rifle) is one of the most famous and widespread military rifle designs of the 20th century. It can be found in both the 7.62 NATO and, very rarely, the 5.56 NATO versions. The furniture may be wood, metal or plastic. There are various barrel lengths. In the UK (L1A1), Canadian, Indian and Dutch versions,



there is no automatic fire mode. The gas system is fitted with a gas regulator, so that it could be easily adjusted for various environment conditions, or cut off completely, so that rifle grenades could be safely launched from the barrel.

<b>Category</b>	<i>Assault Rifles</i>
<b>Operating system</b>	Gas operated, tilting breechblock, select-fire or semi-automatic only
<b>Cartridge</b>	7.62 x 51mm / .308 Winchester
<b>Length</b>	1100 mm
<b>Feeding</b>	Box magazine

The following ammunition can be used by the **FN FAL**:

## 7.62 x 51mm / .308 Winchester

Bullet diameter	7.82 mm
Case length	51.18 mm
Overall length	69.85 mm



## FN Herstal FN MAG

The Belgian FN MAG (Mitrailleuse d'Appui Général, meaning general-purpose machine gun) entered into production in 1958. It is one of the most widespread machine gun designs and is used in more than 90 countries around the globe. It is still manufactured in Belgium and produced under license in several countries including Argentina, Egypt, the US and the UK. It can be carried by infantry and is usually fired while mounted on a tripod.



<b>Category</b>	<i>Heavy Machine Guns</i>
<b>Operating system</b>	gas, automatic
<b>Cartridge</b>	7.62 x 51mm / .308 Winchester
<b>Length</b>	1260 mm
<b>Feeding</b>	disintegrating metal link belt

The following ammunition can be used by the **FN Herstal FN MAG**:

## 7.62 x 51mm / .308 Winchester

Bullet diameter	7.82 mm
Case length	51.18 mm
Overall length	69.85 mm



## FN High Power

The High Power is one of the most widely used military pistols of all time, having been used by the armed forces of over 50 countries. The pistol is often referred to as an HP (for "Hi Power" or "High Power") or as a GP (for the French term, "Grande Puissance"). Technically, the High Power pistol, also known as Browning HP 35, GP 35 or Model 1935, is a recoil operated, locked breech pistol. It uses linkless barrel to slide locking invented by Browning. The trigger is single action, with external hammer. Original HPs featured frame mounted safety at the left side of the frame, that locks both sear and slide. Modern versions, since Mark II, also featured ambidextrous safety levers, that are also more comfortable to operate.



<b>Category</b>	<i>Self-Loading Pistols &amp; Revolvers</i>
<b>Operating system</b>	Short recoil operated, locked breech, single action
<b>Cartridge</b>	.40 S&W 9mm Parabellum (9 x 19mm)
<b>Length</b>	200 mm
<b>Feeding</b>	Box magazine

The following ammunition can be used by the **FN High Power**:

### .40 S&W

Bullet diameter	10.2 mm
Case length	21.6 mm
Overall length	28.8 mm



### 9mm Parabellum (9 x 19mm)

Bullet diameter	9 mm
Case length	19.15 mm
Overall length	29.69 mm



## FN P90

A personal defense weapon (often abbreviated PDW) is a compact semi-automatic or fully-automatic firearm similar in most respects to a submachine gun, but firing an (often proprietary) armor-piercing round, giving a PDW better range, accuracy and armor-penetrating capability than submachine guns, which fire pistol-caliber cartridges. The P90 was designed to have a length no greater than a man's shoulder width, in order to be easily carried and maneuvered in tight spaces, such as the inside of an armored vehicle. To achieve this, the weapon's design utilizes the unconventional bullpup configuration, in which the action and magazine are located behind the trigger and alongside the shooter's face, so that there is no wasted space in the stock. The P90's dimensions are also minimized by its unique horizontally mounted feeding system, wherein the box magazine sits parallel to the barrel on top of the weapon's frame. Overall, the weapon has an extremely compact profile.



<b>Category</b>	<i>Submachine Guns</i>
<b>Operating system</b>	Straight blowback, closed bolt
<b>Cartridge</b>	FN 5.7 x 28mm
<b>Length</b>	500 mm
<b>Feeding</b>	n/a

The following ammunition can be used by the **FN P90**:

### FN 5.7 x 28mm

Bullet diameter	5.7 mm
Case length	28.83 mm
Overall length	40.5 mm



The FN 5.7×28mm is a small-caliber, high-velocity cartridge designed and manufactured by FN Herstal in Belgium. It is a bottlenecked centerfire cartridge that is somewhat similar to



the .22 Hornet or .22 K-Hornet. The 5.7×28mm was developed in conjunction with the FN P90 personal defense weapon (PDW) and FN Five-seven pistol, in response to NATO requests for a replacement for the 9×19mm Parabellum cartridge. By 2006, FN's 5.7×28mm firearms—the P90 personal defense weapon and Five-seven pistol—were in service with military and police forces in over 40 nations throughout the world. In the United States, 5.7×28mm firearms are currently used by numerous law enforcement agencies, including the U.S. Secret Service.

## HK MP5

Though the Heckler & Koch MP5 was designed in the 1960s, it is still one of the most widely deployed sub-machine guns and has been developed into a family with numerous variants. The gun features either a fixed or a sliding (telescoping) butt-stock. The original MP5 offers a choice of single shot or automatic fire, whereas later models received a burst-fire device, allowing two or three-round-bursts each time the trigger is operated. Current models remain in (licensed) production in several countries, though The China North Industries Corporation, officially abbreviated as Norinco, manufactures an unlicensed copy, the NR08.



<b>Category</b>	<i>Submachine Guns</i>
<b>Operating system</b>	delayed-blowback; selective-fire
<b>Cartridge</b>	9mm Parabellum (9 x 19mm)
<b>Length</b>	680 mm
<b>Feeding</b>	detachable box magazine

The following ammunition can be used by the **HK MP5**:

### 9mm Parabellum (9 x 19mm)

Bullet diameter	9 mm
Case length	19.15 mm
Overall length	29.69 mm



## IGLA (SA-16 / SA-18)

The main differences between the SA-18, the SA-16 and its predecessor Strela-3 (SA-14) included an optional "Identification Friend or Foe"-system to prevent firing on friendly aircraft, an automatic lead and super elevation to simplify shooting and reduce minimum firing range, a slightly larger rocket, reduced drag and better guidance system extend maximum range and improve performance against fast and maneuverable targets, an improved lethality on target achieved by a combination of delayed impact fusing, terminal maneuver to hit the fuselage rather than jet nozzle, an additional charge to set off the remaining rocket fuel (if any) on impact, an improved resistance to infrared countermeasure, and slightly improved seeker sensitivity. Several guerrilla and terrorist organizations are also known to have Iglas.



<b>Category</b>	<i>Portable Launcher of Anti-aircraft Missile Systems</i>
<b>Operating system</b>	MANPAD
<b>Cartridge</b>	
<b>Feeding</b>	front-loaded

The following ammunition can be used by the **IGLA (SA-16 / SA-18)**:

## Lee-Enfield SMLE

Rifles manufactured in the USA may have "UNITED STATES PROPERTY" on the left side of the receiver. Some of the Indian-made weapons can be found using 7.62 NATO caliber. The Lee-Enfield family of rifles is the oldest bolt-action rifle design still in official service. Lee-Enfield rifles are used by reserve forces and police forces in many Commonwealth countries, particularly Canada, where they are the main rifle issued to the Canadian Rangers, and India, where the Lee-Enfield is widely issued to reserve military units and police forces. Many Afghan participants in the Soviet invasion of Afghanistan were armed with Lee-Enfields (a common rifle in the Middle East and South Asia).



<b>Category</b>	<i>Rifles &amp; Carbines</i>
<b>Operating system</b>	Manually operated, rotating bolt
<b>Cartridge</b>	7.7 x 56mm R / .303 British

<b>Length</b>	1130 mm
<b>Feeding</b>	Box magazine

The following ammunition can be used by the **Lee-Enfield SMLE**:

### 7.7 x 56mm R / .303 British

Bullet diameter	7.9 mm
Case length	56.4 mm
Overall length	78.1 mm



## M203 grenade launcher

The M203 grenade launcher was intended to be used as close fire support for point and group area targets. The round is designed to be effective at penetrating windows, blowing up doors, producing casualties in groups of enemies, destroying bunkers, and damaging or disabling soft-skinned vehicles. Its primary purpose is to engage enemies in dead space that cannot be reached by direct fire. A well-trained M203 gunner can also use his weapon to suppress the enemy, both from movement and sight. M203 were also produced in Egypt, South Korea and Bulgaria (as UBGL-M1, with mount suitable for Kalashnikov AKM and AK-74 type rifles).



<b>Category</b>	<i>Hand-held under-barrel and Mounted Grenade Launchers</i>
<b>Operating system</b>	Single shot, under-barrel, pump-action
<b>Cartridge</b>	40 x 46 mm grenade
<b>Length</b>	380 mm
<b>Feeding</b>	breech-loaded

The following ammunition can be used by the **M203 grenade launcher**:

### 40 x 46 mm grenade

Bullet diameter	-
Case length	-
Overall length	-



## Remington 870P

The Remington Model 870 pump-action shotgun is available in 11 versions with various barrel lengths, furniture alternatives and magazine capacities. The first model entered into production in 1951. Current models are still being produced today, adding to the more than 10,000,000 estimated units already produced. The Model 870P is the police model with its receiver made of steel. This model can also carry four extra rounds of ammunition. The Remington 870 series is in service with numerous military and police forces worldwide.



<b>Category</b>	<i>Rifles &amp; Carbines</i>
<b>Operating system</b>	manual, slide-action
<b>Cartridge</b>	12-gauge
<b>Length</b>	971 mm
<b>Feeding</b>	underbarrel tubular magazine

The following ammunition can be used by the **Remington 870P**:

### 12-gauge

Bullet diameter	18.53 mm
Case length	-
Overall length	-

NO IMAGE

## RPG 7

The RPG 7 was made under license by many companies in many countries, it was exported to many countries, and it can be found all over the world because the gun is used in many conflicts. The weapon was in service with several armed forces, both regular and irregular, and it can be found in many countries in Asia and Africa.



<b>Category</b>	<i>Portable Anti-tank Guns</i>
<b>Operating system</b>	Recoilless launch + rocket booster
<b>Cartridge</b>	

<b>Length</b>	650 mm
<b>Feeding</b>	front-loaded, manual reload

The following ammunition can be used by the **RPG 7**:

## Sterling MP L2A3

Sterling submachine guns were widely manufactured for export. More than 70 countries purchased various quantities of Sterling submachine guns. These weapons were rather popular among British troops because of their relatively compact size, adequate firepower and accuracy and good reliability. Special "high power, submachine-gun only" ammunition was procured by British army for Sterling submachine guns. This ammunition was absolutely safe in Sterling submachine guns, but can cause extensive wear to many 9mm pistols designed for commercial 9x19 ammunition.



<b>Category</b>	<i>Submachine Guns</i>
<b>Operating system</b>	Blowback-operated, select-fire, fires from open bolt
<b>Cartridge</b>	9mm Parabellum (9 x 19mm)
<b>Length</b>	481 mm
<b>Feeding</b>	Box magazine

The following ammunition can be used by the **Sterling MP L2A3**:

### 9mm Parabellum (9 x 19mm)

Bullet diameter	9 mm
Case length	19.15 mm
Overall length	29.69 mm



## Tagging of Sources

We believe that our Guide should be as transparent as possible without endangering the confidentiality of our sources. Rather than name the exact source for each unit of data, we have created tags so that users can at least know whether the data comes from a primary or secondary source, and by which medium it can or has been found. All incoming data is validated and then tagged by the project team at BICC before it enters our database.

Sources are tagged according to the following criteria:

### 1. Primary Sources:

These are presentations of facts. They are proof of an SALW event (e.g. a transfer, sighting, misuse, etc.) because the source was created at the time of the event itself. Primary sources are usually original documents such as transfer authorizations, firearms legislation, or academic journals presenting results of a study on SALW holdings in a particular country, for example. However, they can also be information offered by a person with direct knowledge of an SALW event or who has documented an SALW event at the time that it happened.

### 2. Secondary Sources:

These are interpretations or evaluation of facts. Secondary sources contain commentary and analysis of SALW events that are documented in primary sources.

Sources are also tagged according to the dominant medium of delivery:

**A. Written** - the source is based on written words.

**B. Oral** - the source is based on spoken words.

**C. Visual** - the source is based on seen events or optical images.

These criteria make our tags two-dimensional. While the process of classifying sources is a primarily subjective one, the project team at BICC has developed the following table to serve as an example of possible sources within each category.

**Table: Examples of sources on SALW distribution**

	Primary	Secondary

<p><b>Written</b></p>	<ul style="list-style-type: none"> <li>• Fact books</li> <li>• Weapons Transfer authorizations</li> <li>• End-user certificates</li> <li>• Transcripts of interviews, legal proceedings, speeches/ presentations, meetings, conferences or symposia</li> <li>• Newspaper articles</li> <li>• Written correspondence (e.g. letters, emails, text messages, etc.)</li> <li>• Blogs</li> <li>• Peer-reviewed journal articles</li> <li>• Treaties, constitution, laws</li> <li>• Records of organizations (e.g. annual reports)</li> <li>• Surveys, questionnaires</li> </ul> <p>Etc...</p>	<ul style="list-style-type: none"> <li>• Wikipedia</li> <li>• Literature reviews</li> <li>• Training or safety manuals on gun control, ammunition, physical stockpile security management)</li> <li>• Minutes of meetings, conferences, symposia</li> <li>• Indexes (e.g. Global Militarization Index)</li> <li>• Newspaper articles</li> </ul> <p>Etc.</p>
<p><b>Oral</b></p>	<ul style="list-style-type: none"> <li>• Interviews with experts, including radio or telephone</li> <li>• Legal proceedings</li> <li>• Speeches or interventions by experts or national representatives in government or international meetings</li> </ul> <p>Etc ...</p>	<ul style="list-style-type: none"> <li>• Speeches, panel presentations, etc. on data provided by experts</li> </ul> <p>Etc...</p>
<p><b>Visual</b></p>	<ul style="list-style-type: none"> <li>• Artifacts (e.g. the weapons themselves, ammunition)</li> <li>• Photographs of weapons, ammunition, etc.</li> <li>• Videos (e.g. YouTube, those recorded by mobile phone)</li> <li>• Television documentaries, news reports</li> </ul> <p>Etc ...</p>	<ul style="list-style-type: none"> <li>• PowerPoint presentations on results found by experts</li> </ul> <p>Etc...</p>

**Table: Example tags**

<b>Source (sample)</b>	<b>Type of source</b>	<b>Medium of delivery</b>
IHS Jane's Weapons Infantry (2015-2016)	primary	written
Panel discussion of weapons use of non-state armed groups	secondary	oral
Documentary on paramilitaries in Colombia	primary	visual

## About the Guide

The Interactive Guide on **Small Arms and Light Weapons** is an open access tool, designed to build knowledge on how to identify different types, makes and models of commonly used SALW in organized violence; to collect data on the global and country-specific spread of these SALW; and to describe some of their visual and technical specifications.

The guide is not an exhaustive list of all SALW that are used around the world.

Global SALW control relies on, among other things, data and knowledge of the weapons themselves. Our aim is that the Guide will be used to support national reporting duties on SALW holdings; facilitate and ameliorate the collection of data on SALW; and increase general knowledge of global distribution of SALW.

The interactive Guide was developed by **BICC** in close cooperation with the **Bundeswehr Verification Center** (BwVC), and with the generous support of the *Federal Foreign Office, Germany*.

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