Appendix B

Firearms

General

Terrorists use a variety of firearms to include handguns, rifles, automatic rifles, submachine guns, as well as mortars and rocket launchers. Access to sophisticated firearms is relatively easy for terrorist cells. Sources may include criminal links in the society, other terrorist cells, or indirect and direct sponsors of the terrorist activities.

This appendix presents a sample of firearms used by terrorists in five basic types: pistols, submachine guns, assault rifles, sniper rifles, and shotguns. Availability, simplicity, and efficiency are common requirements in acquiring firearms. Concealment of the weapon, especially in urban terrain, is often a key consideration too. Terrorists standardize calibers of their weapon ammunition as much as possible to ease logistics of resupply and maintenance.

Pistols are standard weapons for terrorists. Although the revolver may be considered more reliable in field conditions, the semiautomatic handgun provides more ammunition per magazine than the cylinder capacity of a revolver. Submachine guns are basically short rifles that have a full automatic fire capability. They use pistol-caliber ammunition and typically have a large capacity magazine. Their range, accuracy and penetration are better than pistols due to the longer barrel and sighting performance.

Assault rifles are the primary offensive weapons of modern militaries and are used extensively by terrorist organizations. They normally have selective firing capability to allow single shot, 2 or 3 round bursts of fire, or full automatic fire. Their effective ranges often exceed 600 meters and have effective rates of fire up to 400 rounds per minute in the full automatic mode. Sniper rifles with telescopic sights and high performance ammunition provide a special capability. Ammunition caliber norms span 5.56 mm or 7.62 mm to the much larger caliber .50 chambered rifles. Shotguns are excellent weapons for close-range tactical tasks. Various types of ammunition provide wide area coverage, high impact hitting power, or special effects.

Handguns
CZ 75 (Czechoslovakia)

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>9mm Parabellum</td>
<td>Magazine Capacity: 16</td>
</tr>
</tbody>
</table>


SYSTEM
A double-action semi-automatic pistol modeled after the Browning P-35. It can be carried cocked and locked and is considered a very accurate handgun. Its design has been copied frequently to produce such guns as the TZ75, EAA Witness, TA90, Springfield Armory P9, ITM AT84, ITM AT88, and Baby Eagle.

Weight (kg): 0.98
Length (mm): 203
Operation: Recoil operated double action.
Fire Mode: Semi-automatic

VARIANTS
CZ 75B, 75BD, 75DAO, 75 Police: available in 9mm Luger, 9x21mm, .40 S&W
CZ 75 Compact, 75D Compact, 75 Semi Compact:
Available in 9mm Luger.

AMMUNITION
Name: 9mm Parabellum
Caliber/length: 9 x 19 mm
Effective Range (m): 50
Muzzle Velocity (m/s): 381

SIGHTS
Iron sights.
**Glock 17 (Austria)**

![Glock 17 Image](Source: Photograph Courtesy of GLOCK, Inc.)

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>9mm Parabellum</td>
<td>Magazine Capacity: 10, 17, 19, 31</td>
</tr>
</tbody>
</table>

**SYSTEM**

A semiautomatic handgun originally adopted by the Austrian Army and Police. It has a unique safe action striker-fired trigger mechanism that sets the striker in the half-cocked position after each round. When firing, the shooter pulls the trigger, which disengages the trigger safety, then cocks the striker to the full cock position prior to firing. The Glock has a polymer frame and steel slides.

- Weight (kg): .905
- Length (mm): 186
- Operation: Recoil operated double action.
- Fire Mode: Semiautomatic

**VARIANTS**

- Glock 17L: Competition version
- Glock 18: 3 round burst version
- Glock 19: Compact version
- Glock 34: Competition version
- Numerous other models in a variety of calibers.

**AMMUNITION**

- Name: 9 mm Parabellum
- Caliber/length: 9 x 19mm
- Effective Range (m): 50
- Muzzle Velocity (m/s): 350

**SIGHTS**

- Iron sights. Adjustable on competition models.
**Makarov Pistol (USSR/Russia)**


<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>A blowback operated, double action semiautomatic handgun that is extremely sturdy, simple to operate and maintain, and very reliable. It was designed for Soviet army officers and Soviet police. It is a Walther PP style weapon and provides good defense at short and medium distances. There are some disadvantages with this weapon, specifically the 9mm Makarov is considered to be underpowered. Additionally, the magazine capacity of 8 is low compared to other handguns available.</td>
<td>9mm Makarov</td>
<td>Magazine Capacity: 8</td>
</tr>
<tr>
<td>Weight (kg): .66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length (mm): 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation: Double action</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Mode: Semiautomatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VARIANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMM: 9x18mm</td>
</tr>
<tr>
<td>Izh 71: 9x17mm short/.380 ACP</td>
</tr>
<tr>
<td>Baikal IJ 70: 9mm Makarov/.380 ACP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AMMUNITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: 9mm Makarov</td>
</tr>
<tr>
<td>Caliber/length: 9 x 18mm</td>
</tr>
<tr>
<td>Effective Range (m): 50</td>
</tr>
<tr>
<td>Muzzle Velocity (m/s): 315</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron sites.</td>
</tr>
</tbody>
</table>
Ruger GP100 (United States)

Ammunition

<table>
<thead>
<tr>
<th>Types</th>
<th>Typical</th>
<th>Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>.357 Magnum</td>
<td>Cylinder</td>
<td>Capacity: 6</td>
</tr>
<tr>
<td>.38 Special</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


SYSTEM

The Ruger GP100 is a rugged double-action revolver, available in fixed and adjustable sight models. It was designed specifically for the law enforcement and security communities. It can be field stripped very quickly for easy maintenance. Although it is chambered for the .357 Magnum, it can also fire the .38 Special cartridge.

Weight (kg): 1.28
Length (mm): 238
Operation: Double action
Fire Mode: Single shot

SIGHTS
Adjustable iron sights.

VARIANTS

GP-141
KGP-141
GP-160
KGP-160
GP-161
KGP-161

AMMUNITION

Name: .357 Magnum
Caliber/length: .357 Cal/33 mm
Effective Range (m): 60
Muzzle Velocity (m/s): 442
Submachine Guns

Heckler & Koch MP-5 (Germany)

A submachine gun with a recoil operated roller-locked bolt that fires from a closed position. Very accurate and reliable under adverse conditions with only a minimum requirement for maintenance. The smooth recoil characteristics provide optimum control when firing bursts or when firing full automatic. It is very conducive for concealed carrying or for use in confined areas.

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>VARIANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg): 3.07 loaded</td>
<td>MP5A1 – w/o stock</td>
</tr>
<tr>
<td>Length (mm): 490/660</td>
<td>MP5A2 – fixed polymer stock</td>
</tr>
<tr>
<td>Cyclic Rate of fire (rd/min): 800</td>
<td>MP5A3 – telescopic metal stock</td>
</tr>
<tr>
<td>Operation: Blowback</td>
<td>SD1 – SD3 – same as above with internal silencers</td>
</tr>
<tr>
<td>Fire Mode: Semi-automatic, Full automatic</td>
<td>MP5N – US Navy model with 3 round burst capability</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AMMUNITION</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: 9 mm Parabellum</td>
<td>Magazine Capacity: 10, 15, 30</td>
</tr>
<tr>
<td>Caliber/length: 9 x 19 mm</td>
<td></td>
</tr>
<tr>
<td>Effective Range (m): 200</td>
<td></td>
</tr>
<tr>
<td>Muzzle Velocity (m/s): 400</td>
<td></td>
</tr>
</tbody>
</table>

Ammunition Types

9 mm Parabellum

### System

The PM 63 is a blowback operated SMG that fires from the open bolt position. Although it is capable of both semi-automatic and full automatic modes, there is no selector switch. The semi-automatic mode is achieved by a short pull of the trigger, whereas full automatic requires pulling the trigger completely. It was designed with Special Forces in mind and was one of the lightest SMGs when it was introduced. It has been used by Polish Special Forces, police and by military personnel requiring a compact weapon. Iranian terrorists used it during the siege of the Iranian embassy in London in 1980. It has been a very prolific weapon, with tens of thousands being produced.

<table>
<thead>
<tr>
<th>Weight (kg): 2.0 Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm): 333/583</td>
</tr>
<tr>
<td>Cyclic Rate of fire (rd/min): 650</td>
</tr>
<tr>
<td>Operation: Blowback, firing from open bolt position</td>
</tr>
<tr>
<td>Fire Mode: Semi-automatic, Full automatic</td>
</tr>
</tbody>
</table>

### Ammunition

**Types**
- 9 mm Makarov

**Typical Combat Load**
- Magazine Capacity: 15, 25

### Variants

- 9mm Parabellum developed in 1971.
- Unlicensed copy by NORINCO of China.

### Ammunition

**Name:** 9mm Makarov
**Caliber/length:** 9 x 18 mm
**Effective Range (m):** 75
**Muzzle Velocity (m/s):** 320

### Sights

Iron sights that can be set on 75 or 150 meters.
### Uzi (Israel)

**SYSTEM**

The Uzi is a recoil operated, select fire submachine gun that fires from the open bolt position. It has a folding stock and can be equipped with silencers. The Uzi submachine gun is manufactured by IMI and has been adopted by more than 90 countries for their police and military. Special operations and security units to include the US Secret Service and the Israeli Sayeret (Special Forces) use the compact variants. It is considered one of the most popular SMGs in the world, with more than 10 million manufactured around the world.

<table>
<thead>
<tr>
<th>Weight (kg): 4.0 loaded</th>
<th>Length (mm): 470/650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclic Rate of fire (rd/min): 600</td>
<td>Operation: Blowback, firing from open bolt position</td>
</tr>
<tr>
<td>Fire Mode: Semi-automatic, Full automatic</td>
<td></td>
</tr>
</tbody>
</table>

**VARIANTS**

Mini Uzi

**AMMUNITION**

Name: 9 mm Parabellum

<table>
<thead>
<tr>
<th>Caliber/length: 9 x 19mm</th>
<th>Effective Range (m): 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muzzle Velocity (m/s): 400</td>
<td></td>
</tr>
</tbody>
</table>

**SIGHTS**

Front – Post; Rear – Aperture “L” Flip.

Tactical flashlights and laser aiming modules are available.

**Ammunition Types**

<table>
<thead>
<tr>
<th>9mm Parabellum</th>
</tr>
</thead>
</table>

**Typical Combat Load**: Magazine Capacity: 20, 25, 32

Assault Rifles

AK 47 (Russia)

A gas operated, selective fire assault weapon adopted by the Soviet Army in 1949. It came with both a fixed wooden stock and a folding metal stock, the AKS, which was issued to paratroopers and armor units. All of the Kalashnikov assault rifles are very dependable and produce a high volume of fire. They are one of the most prevalent weapons used by terror groups today.

Weight (kg): 4.876 loaded
Length (mm): 870
Cyclic Rate of fire (rd/min): 600
Operation: Gas operated
Fire Mode: Semi-automatic, Full automatic

SIGHTS
Iron sites.

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.62 x 39 mm</td>
<td>Magazine Capacity: 30</td>
</tr>
</tbody>
</table>

VARIANTS
AKS: short stock
AKM: updated version of the AK 47
Clones:
Sako/Valmet: Finland
Galil: Israel
R-4/R-4C: South Africa

AMMUNITION
Name: 7.62
Caliber/length: 7.62 x 39 mm
Effective Range (m): 300
Muzzle Velocity (m/s): 710
### AK 74 (Russia)

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.45 mm</td>
<td>Magazine Capacity: 30</td>
</tr>
</tbody>
</table>

**SYSTEM**

A gas operated assault weapon used by the Soviet Army. It is basically an AKM rechambered to fire a 5.45mm round. It has a higher muzzle velocity than the AK 47/AKM, which gives it a longer effective range. It does not have the accuracy of the M16, but reportedly has better reliability in a combat situation and less maintenance requirements than the M16.

- Weight (kg): 3.6 loaded
- Length (mm): 933
- Cyclic Rate of fire (rd/min): 600
- Operation: Gas operated
- Fire Mode: Semi-automatic, Full automatic

**SIGHTS**

- Front: Post, Rear: U-notch
- Night sights are available.

**VARIANTS**

- AKS 74: Folding stock version

**AMMUNITION**

- Name: 5.45mm
- Caliber/length: 5.45 x 39 mm
- Effective Range (m): 500
- Muzzle Velocity (m/s): 900

Colt M16 (United States)

A gas operated automatic assault rifle used by the US military as its primary weapon. Originally developed by Armalite as the AR 15, this was a scaled down version of the AR 10 redesigned to use the .223 Remington cartridge. It has been modified numerous times and is used by nearly 30 different militaries and is very popular with law enforcement agencies.

Weight (kg): 2.89 empty
Length (mm): 986
Cyclic Rate of fire (rd/min): 800
Operation: Gas operated
Fire Mode: Semi-automatic, Full automatic

VARIANTS
M16A1, A2, A3: Various upgrades.
Civilian clones by Bushmaster, Armalite, Professional Ordnance, and many others.

AMMUNITION
Name: 5.56 NATO
Caliber/length: 5.56 x 45mm
Effective Range (m): 460
Muzzle Velocity (m/s): 991

(SOURCE: US Army File Photo)
Sniper Rifles

ArmaLite AR 50 (United States)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>A single shot bolt action rifle that uses the .50 Cal Browning Machine Gun ammunition. It has a unique octagonal receiver bedded into a sectional aluminum stock and has a modified M-16 type pistol grip. The butt stock is fully adjustable and is removable for transport.</td>
<td>.50BMG</td>
<td>Single Shot</td>
</tr>
</tbody>
</table>

Weight (kg): 19.24 with scope
Length (mm): 1499
Operation: Bolt Action
Fire Mode: Single shot

SIGHTS

ArmaLite sells this with a Leupold Mk4 10-power scope.

VARIANTS

AMMUNITION

Name: .50BMG
Caliber/length: 12.7x99mm
Effective Range (m): 1200
Muzzle Velocity (m/s): 865-890

* ArmaLite is a registered trademark of ArmaLite.
## Remington Model 700 (United States)

![Remington Model 700](Source: US Army File Photo)

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>.223 Rem</td>
<td>Magazine, Capacity: 5</td>
</tr>
<tr>
<td>.308 Win</td>
<td></td>
</tr>
</tbody>
</table>

### SYSTEM

A bolt action, magazine fed rifle that is basically a re-stocked Remington Model 700 VS varmint rifle. This is one of the most widely used tactical rifles in the United States. The police, the US Army and the US Marine Corps, use it.

- Weight (kg): 4.08 empty without scope
- Length (mm): 1662
- Operation: Bolt Action
- Fire Mode: Single Shot

### VARIANTS

- M24 Sniper Weapon System (US Army)
- M40A1 Sniper Rifle (USMC)

### AMMUNITION

- Name: .223 Rem/.308 Win
- Caliber/length: 5.56x45mm / 7.62x51mm
- Effective Range (m): 800
- Muzzle Velocity (m/s): 1005 / 780-840

### SIGHTS

- Variable telescopic scopes.
- No iron sights.
# Steyr-Mannlicher SSG-69 (Austria)

![Steyr-Mannlicher SSG-69](UNCLASSIFIED)

## System

A bolt action, magazine fed rifle, which has been used as a sniper rifle by the Austrian forces, as well as many police agencies. The rifle is extremely accurate and has been used to win a number of international competitions.

- **Weight (kg):** 4.6 with scope.
- **Length (mm):** 1130
- **Operation:** Bolt Action
- **Fire Mode:** Single shot

## Variants

**AMMUNITION**

- **Name:** .308 Win
- **Caliber/length:** 7.62 x 51mm
- **Effective Range (m):** 800
- **Muzzle Velocity (m/s):** 799 - 860

## Sight

- **Scope**
Shotguns

Franchi SPAS 12 (Italy)

Ammunition Types
12 Ga. Shot
12 Ga. Buckshot
12 Ga. Slug

Typical Combat Load
Tubular Magazine capacity: 8

SYSTEM

This is a dual mode shotgun, which can be operated both as a pump-action style shotgun and as a semi-auto shotgun. It can rapidly fire full power loads such as buckshot set on semi-auto, and can be switched to pump to handle low power rounds -- or if auto functioning fails to function properly. It has a relatively short barrel, which makes it suitable for operation in tight quarters. Both military and the police use it.

Weight (kg): 4.0
Length (mm): 1070
Operation: Pump or gas operated
Fire Mode: Semi-automatic

SIGHTS

Iron Blade

VARIANTS

AMMUNITION

Name: 12 Gauge
Caliber/length: 12 Ga/ 2 ¾ inch
Effective Range (m): 60
Muzzle Velocity (m/s): 393 (00 Buckshot)

### Mossberg Model 500 (United States)

**SYSTEM**
This is a pump action shotgun that is common with the military and police departments, and is sold widely on the commercial market. It is available with both a traditional wood stock and with the pistol grip, as shown above.

- Weight (kg): 2.6
- Length (mm): 711
- Operation: Pump Action
- Fire Mode: Single shot

**SIGHTS**
Fixed iron sights

**AMMUNITION**

<table>
<thead>
<tr>
<th>Ammunition Types</th>
<th>Typical Combat Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Ga. Shot</td>
<td>Tubular Magazine capacity: 6, 8, 9</td>
</tr>
<tr>
<td>12 Ga. Buckshot</td>
<td></td>
</tr>
<tr>
<td>12 Ga. Slug</td>
<td></td>
</tr>
</tbody>
</table>

**VARIANTS**
Numerous variations of this model exist.