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Arsenal 2000 » AR-M4SF

The AR-M4SF, based on the Russian AK-74F, is a compact assault rifle available in both 5.56mm NATO and 7.62mmR calibres. It features a short barrel and right-side folding metal buttstock. The magazine, lower hand guard, upper hand guard and pistol grip are made from glass fibre-reinforced polycapromide. **Calibre:** 5.56x45mm NATO or 7.62x39mmR **Operating principle:** gas **Feed mechanism:** 20- or 30-round magazines **Weight:** 3.42kg without magazine and collimator sight **Magazine weight:** 0.58kg with 30 5.56mm rounds, 0.72kg with 30 7.62mm rounds **Length:** 760mm stock extended, 520mm stock folded **Barrel length:** 215mm **Sights:** 3-dot Tritium, passive collimator, optical **Muzzle velocity:** 710m/s (SS109), 750m/s (M193), 600m/s (7.62mmR) **Rate of fire:** 600rpm **Effective range:** 300m (5.56mm), 250m (7.62mm) **Maximum range:** 1,100m **Mode of fire:** single-shot, automatic



Arsenal 2000 » AR-M7FT

The roots of Arsenal's AR-M7-series assault rifles can be traced to the Soviet AK-47 and AK-74 series. The AR-M7FT, which features a right-side folding telescoping buttstock, is available in 5.56mm NATO and 7.62mmR calibres. The magazine, lower hand guard, upper hand guard and pistol grip are made from glass-fibre-reinforced polycapromide. MIL-STD-1913 Picatinny rails are fitted at the three, six, nine and twelve o'clock positions. The AR-M7FT can be fitted with a Tritium self-illuminated night sight (3-dot system). Arsenal's UBGL-M8 and UBGL-M6 40mm grenade launchers can be attached to the AR-M7. **Calibre:** 5.56x45mm NATO or 7.62x39mmR **Feed mechanism:** 30-round magazine **Weight:** 4.2kg without magazine **Magazine weight:** 0.58kg (5.56mm), 0.72kg (7.62mm) **Length:** 965mm with extended butt, 865mm with closed butt **Barrel length:** 415mm **Sights:** 3-dot Tritium night, MIL-STD-1913 rail **Muzzle velocity:** 870m/s (SS109), 810m/s (M193) **Rate of fire:** 600rpm **Effective range:** 500m for 5.56mm, 400m for 7.62mm **Maximum range:** 1,350m



Mode of fire: single-shot, automatic

Arsenal 2000 » AR-M8FB

The AR-M8F series is available in 5.56mm NATO and 7.62mmR calibres. The AR-M8FB rifle can fire in semi-automatic, three-round burst and automatic modes. The Arcuate staggered magazine, lower hand guard, upper hand guard and pistol grip are made from glass-fibre-reinforced polycapromide. The rifle features a folding buttstock. MIL-STD-1913 rails are available as an option. Arsenal's UBGL-M6, UBGL-M8, UBGL-1 40mm or the GP-25 25mm underbarrel grenade launchers can be attached. **Calibre:** 5.56x45mm NATO or 7.62x39mmR **Operating principle:** gas **Feed mechanism:** 30-round magazine **Weight:** 3.75kg magazine empty **Magazine weight:** 0.58kg 5.56mm loaded, 0.72kg 7.62mm loaded **Length:** 880mm butt extended, 630mm butt closed **Barrel length:** 320mm **Sights:** iron standard, MIL-STD-1913 rail available **Muzzle velocity:** 630m/s (SS109), 880m/s (M193), 650m/s (7.62mm) **Rate of fire:** 600rpm **Effective range:** 400m (5.56mm), 350m (7.62mm) **Maximum range:** 1,100m **Mode of fire:** single-shot, automatic, 3-round burst



Machine guns – light

Light » Arsenal 2000 » LMG-M4F

The LMG-M4F is available in 5.56mm NATO and 7.62mm Russian calibre. The F model features a metal right-side folding butt. The magazine, lower hand guard, upper hand guard and pistol grip are made from glass fibre reinforced polycapromamide. The LMG-M4F uses a luminous three-dot sight system. **Calibre:** 5.56x45mm NATO, 7.62x39mmR **Sights:** luminous 3-dot, various optical and night can be fitted



Denel Dynamics » Mini SS

In 1994, Denel developed the Mini SS LMG chambered to fire 5.56mm ammunition. It can supply new-build weapons or kits, including a new barrel, bolt, gas piston and feed cover, to convert the SS77 to Mini SS configuration. It has a folding bipod and fixed butt. The Mini SS can be housed on a tripod and a variety of vehicle, helicopter and shipboard mounts. **Calibre:** 5.56x45mm **Feed mechanism:** belt-fed **Firing mode:** automatic **Weight:** 8.26kg unloaded **Length:** 1,000mm **Barrel length:** 513mm **Sights:** iron, MIL-STD-1913 rail **Rate of fire:** 800rpm **Effective range:** 500m (bipod), 800m (tripod)



Denel Dynamics » SS77

Denel developed the 7.62mm SS77 LMG to meet South African military requirements in 1977. It has been used by the South African National Defence Force since 1986 and has been sold to at least two export customers. The SS77 can be housed on a tripod and on a variety of vehicle, helicopter and shipboard mounts. **Calibre:** 7.62x51mm **Feed mechanism:** belt-fed **Firing mode:** automatic **Weight:** 9.6kg unloaded **Length:** 1,155mm **Barrel length:** 550mm **Sights:** iron, MIL-STD-1913 rail **Rate of fire:** 600-900rpm **Effective range:** 1,000m



Textron Systems Unmanned Systems » LSAT LMG

Textron Systems Unmanned Systems is developing the Lightweight Small Arms Technologies (LSAT) family of weapons and ammunition with the US Army, firing polymer cased telescoped (CT) ammunition. The CT weapons include a Light Machine Gun (LMG) demonstrated to Technology Readiness Level (TRL) 7; a compact variant that is 689mm long with stock folded; and a carbine demonstrated to TRL 5. The CT ammunition weighs nearly 40% less than a conventional brass-cased 5.56mm cartridge, and uses full-loop polymer links. **Calibre:** 5.56mm CT **Feed mechanism:** belt with polymer link **Firing mode:** automatic **Weight:** 4.26kg **Length:** 900mm, 845mm compact variant (stock extended) **Barrel length:** 410mm, 305mm compact variant **Sights:** iron, MIL-STD-1913 rail **Rate of fire:** 650rpm



Medium/general-purpose » Arsenal 2000 » MG-1M

Arsenal's MG-1-series belt-fed machine guns are derived from the Russian PK and PKM designs and are fitted with a synthetic buttstock and pistol grip. Variants are available in 7.62mm NATO and 7.62mm Russian calibres. According to Arsenal, the barrel life of the MG-1 is 30% greater than the PK series. The MG-1M variants are optimised for use in tropical and arid climates, and feature a redesigned barrel to improve cooling. The MG-1MS support variants (tripod) are supplied with Arsenal's TAR-MG tripod for use in the sustained fire role. Specifications for MG-1M. **Calibre:** 7.62x51mm NATO, 7.62mmx54mm Russian **Feed mechanism:** belt-fed from 100- or 200-round metal box **Firing mode:** automatic **Weight:** 8.5kg for 7.62mm NATO, 9kg for 7.62mm Russian without ammunition or bipod **Magazine weight:** 4.1kg for 100-round, 6.9kg for 200-round 7.62mm NATO boxes; 3.9kg, 6.5kg for 7.62mm Russian boxes **Length:** 1,160mm **Barrel length:** 605mm **Rate of fire:** 650rpm **Effective range:** 1,000m **Maximum range:** 3,800m



Barrett » M240LW

Barrett developed its M240 Light Weight (LW) machine gun to provide a weapon lighter than the standard 7.62mm M240 and cheaper to produce than the M240L now being fielded by the US Army. Weight and manufacturing costs have been reduced by replacing the M240's heavyweight riveted receiver with a one produced in two pieces that are welded together. It features 59 fewer parts than the standard M240. The M240LW is about 2.5kg lighter than the M240B. It has a MIL-STD-1913 sight rail and 127mm accessory rails at the three and nine o'clock positions. **Calibre:** 7.62x51mm **Feed mechanism:** belt-fed **Firing mode:** automatic **Weight:** 9.52kg **Length:** 1,246mm **Barrel length:** 627mm **Sights:** iron, MIL-STD-1913 rail **Rate of fire:** 650-1,000rpm **Effective range:** 800m on bipod, >1,500m on tripod



Grenade launchers – individual

Individual » Arsenal 2000 » MSGL

MSGL is a shoulder-fired, six-shot, semi-automatic grenade launcher designed for use with 40mm low-velocity ammunition up to 105mm in length. The MSGL-L model fires grenades up to 135mm in length. Both are available with a MIL-STD-1913 Picatinny rail. A chromium-plated barrel increases longevity. **Calibre:** 40x46mm **Feed mechanism:** 6-round revolving drum **Effective range point target:** 150mm **Effective range area target:** 350mm **Weight:** 6.53kg unloaded (MSGL), 7.56kg unloaded (MSGL-L) **Length:** 7.64mm stock extended, 530mm stock closed (MSGL); 800mm stock extended, 570mm stock closed (MSGL-L) **Barrel length:** 230mm **Sights:** flip-up rail, MIL-STD-1913 rail **Muzzle velocity:** 75m/s **Max range:** 400m



Arsenal 2000 » UBGL-M8

The UBGL-M8 is a single-shot 40mm low-velocity underbarrel grenade launcher designed for attaching to Arsenal 2000 5.45mm, 5.56mm and 7.62mm assault rifles as well as AK-series weapons from other manufacturers. It can be equipped with a MIL-STD-1913 rail for attaching mechanical or collimator sights. **Calibre:** 40x46mm **Feed mechanism:** breech-loading, single-shot **Effective range point target:** 150mm **Effective range area target:** 350mm **Weight:** 1.75kg **Length:** 375mm **Barrel length:** 250mm **Muzzle velocity:** 76m/s **Max range:** 400m



Arsenal 2000 » UGGL-M1

The UGGL-M1 is a standalone single-shot 40mm low-velocity grenade launcher with a telescopic folding butt. **Calibre:** 40x46mm **Effective range point target:** 150mm **Effective range area target:** 350mm **Weight:** 2.85kg **Length:** 605mm stock extended, 420mm stock closed **Height:** 230mm sight folded, 290mm sight open **Width:** 76mm **Muzzle velocity:** 76m/s **Max range:** 400m



Beretta » GLX160 A1

The 40mm GLX160 A1 grenade launcher was designed to be integrated with the ARX160 A1/A2 rifle which Beretta developed for the Italian Army. The GLX160 A1 can also be mounted on any rifle with a suitable interface and used as a separate weapon when a standalone frame with a five-position telescopic stock, pistol grip and MIL-STD-1913 rail is attached. The slide-forward barrel configuration is ambidextrous and the barrel can be separated from the frame to allow longer grenades to be loaded. **Calibre:** 40x46mm **Feed mechanism:** breech-loading, single-shot **Weight:** 1kg, 2.2kg in standalone configuration **Length:** 324mm, 523-643mm in standalone configuration **Barrel length:** 243mm **Sights:** folding ladder rear graduated from 50-400m in 50m increments



Individual » Arsenal 2000 » ATGL-L

The 40mm Anti-Tank Grenade Launcher-Light (ATGL-L) family is derived from the Russian RPG-7 series of unguided, shoulder-launched, anti-tank RPG launchers. The family consists of the ATGL-L, ATGL-L1, ATGL-L2, ATGL-L3, ATGL-L4 and ATGL-L5. At least 17 types of grenade are available for the ATGL-L5. Various sights can be fitted. **Calibre:** 40mm **Weight:** 6.5kg (ATGL-L, ATGL-L1); 6.98kg (ATGL-L2); 5.9kg (ATGL-L3); 6.15kg (ATGL-L4); 7.61kg (ATGL-L5); 1.3kg for bipod common to all models. **Length:** 950mm **Rate of fire:** 4-6rpm



Bazalt » RPG-27/RShG-1

The 105mm RPG-27 Tavolga shoulder-fired disposable rocket launcher was developed by Bazalt in the 1980s to meet a Soviet Army requirement for a weapon able to defeat modern MBTs with ERA and composite armour, and field fortifications. According to Bazalt, the tandem-charge warhead of the spin-stabilised rocket can defeat more than 600mm of RHA after penetrating ERA, 1.5m of brick or concrete and 3.7m of earth. The RShG-1 is a variant of the RPG-27 equipped with a thermobaric warhead to defeat personnel. Both variants are in Russian service and offered for export. **Calibre:** 105mm **Weight:** 8kg **Length:** 1.15m **Sights:** iron **Muzzle velocity:** 120m/s **Effective range:** 200m **Warhead:** tandem HEAT **Armour penetration:** 650mm RHA protected by ERA



Dynamit Nobel Defence » Bkf

The Bunkerfaust (Bkf) is designed to enable troops to defeat targets behind cover. The tandem warhead, which comprises a penetrating charge and a follow-through grenade, can be used against structures ranging from reinforced concrete to IFV armour. With retracted spike, the Bkf's multipurpose warhead is effective against light armoured vehicles. Bkf is fired using the launch system of the Pzf 3 and can be fired from an enclosure. **Calibre:** 110mm **Weight:** 13.3kg ready to fire **Length:** 1,270mm **Sights:** 2x optical, Dynarange with laser rangefinder, interface rail for night **Effective range:** 11-400m **Penetration:** 110mm RHA, 360mm concrete, 1,300mm sandbags **Temperature range:** -46/+71°C



Assault/anti-tank weapons – crew-served

Saab » AT4CS HE

The AT4CS HE, introduced in 2014, is a member of the 84mm shoulder-launched AT4 family. Fitted with an HE anti-personnel warhead, it provides a direct fire weapon that can be used to engage enemy troops in airburst or impact mode out to a distance of 1,000m. It is one of three AT4CS variants ordered in December 2014 for the French Army's Roquette Nouvelle Génération requirement. **Calibre:** 84mm **Sights:** iron, optional night vision **Max range:** 1,000m **Warhead:** HE with selectable airburst or impact fuse



Saab » NLAW

The Next Generation Light Anti-tank Weapon (NLAW) is a light, fire-and-forget, top-attack missile system designed to provide a single soldier with the capability of knocking out a heavily protected armoured vehicle with a single shot. NLAW can be fired from within confined spaces. A predicted line of sight capability allows the soldier to engage targets without having to judge and compensate for external factors such as speed, wind and range. In service with Finnish, Swedish and UK forces since 2009. Production partner Thales UK delivered the 10,000th NLAW in mid-2011. **Calibre:** 150mm **Weight:** 12.5kg **Sights:** 2.5x optical, red dot **Effective range:** 20-600m **Warhead:** single shaped charge **Armour penetration:** MBT roof with ERA



Crew-served » Arsenal 2000 » ATGL-H

The Anti-Tank Guided Launcher-Heavy (ATGL-H) is an improved derivative of the Russian SPG-9 tripod-mounted manportable, 73mm recoilless gun which fires fin-stabilised, rocket-assisted HE and HEAT projectiles. The family includes the basic ATGL-H model, the ATGL-H1, ATGL-H2 and ATGL-H3. The H1 and H3 are mounted on wheels for mobility. Ammunition common to all models includes the RHEAT-9MA, PG-9V and PG-9VN anti-tank rounds, and the RHEF-9MA, RHEF-9MA1, OG-9V and OG-9VM anti-personnel rounds. **Calibre:** 73mm **Feed mechanism:** breech-loading, single-shot **Weight:** 50.5kg ATGL-H, 66.5kg ATGL-H1, 59kg ATGL-H2, 75kg ATGL-H3 **Length:** 2,110mm **Width:** 1,050mm on tripod ready to fire, 665mm in travelling configuration **Muzzle velocity:** 316-435m/s **Rate of fire:** 6rpm **Max range:** 345-4,500m depending on ammunition



Light » Arsenal 2000 » M60CMA

The M60CMA Commando Mortar is a handheld 60mm mortar operated by one soldier. **Calibre:** 60mm **Weight:** 5.7kg **Length:** 815mm **Rate of fire:** 30rpm **Effective range:** 50-1,600



Arsenal 2000 » M60MA

The M60MA is a 60mm crew-served light mortar fired from a bipod. **Calibre:** 60mm **Weight:** 6.3kg barrel, 4.3kg baseplate, 8.0kg bipod with buffer, 0.9kg sight; 18.6kg total **Barrel length:** 1,000mm **Sights:** MUM-706M **Rate of fire:** 24rpm max **Effective range:** 150m min, 3,130m (HE 60MA), 4,060 (HE 60LDMA)



Denel Dynamics » 60mm M4 Commando Mortar

Denel markets two variants of its M4 60mm Commando Mortar system: M4 Mk 1 and M4L3. Both are handheld mortars designed for use by one person. The M4 Mk 1 has a clamp-on sight unit, whereas the M4L3 is aimed by using an adjustable sight strap. The M4 series is in service with the South African National Defence Force and export customers. **Calibre:** 60mm **Weight:** 7kg (M4 Mk 1); 7.5kg (M4L3) **Barrel length:** 650mm **Rate of fire:** 12rpm **Effective range:** 100-2,050m (M4 Mk 1); 100-1,200m (M4L3)



Denel Dynamics » 60mm M6 Long Range Mortar

The 60mm M6 long-range mortar is a development of Denel's M3 81mm mortar. The M6 can fire standard 60mm mortar ammunition or long-range ammunition developed by Denel. The M6 is in service with the South African National Defence Force. **Calibre:** 60mm **Weight:** 34kg complete; barrel 12kg; base plate 7.6kg; bipod 12.9kg; sight 1.4kg **Barrel length:** 1,450mm **Rate of fire:** 15rpm **Effective range:** 100-6,000m



Watervliet Arsenal » M224A1

In mid-2011, the US Army began fielding the M224A1 Lightweight Company Mortar System to replace its 1,550 M224s which had been used extensively in Afghanistan and Iraq. The weapon consists of the M225A1 tube, M170A1 bipod, M7A1 baseplate for use with bipod, the M8 baseplate for use in handheld mode and the M67 sight unit. Lighter materials such as Inconel, aluminium and Kevlar reinforced with composites, and less components, makes the M224A1 20% lighter than its predecessor. Operated by a three-man crew. It fires all 60mm ammunition, including high-explosive, smoke, illumination, IR illumination and practice cartridges. Various subcontractors supply components to the US government-owned arsenal. **Calibre:** 60mm **Weight:** 21.1kg **Barrel length:** 1,000mm **Rate of fire:** 30rpm for first two minutes, 20rpm sustained **Max range:** 3,490m



Zakłady Mechaniczne Tarnów » LM-60 D Light Mortar

The LM-60 D Light Mortar is designed for light infantry, air assault and airborne units. It is designed to be easy to carry and maintain and is equipped with control threading mechanism protection. An optional optical sight is available for targeting and rapid firing. The LM-60 D is typically operated by a crew of three. **Calibre:** 60mm **Feed mechanism:** drop-fed **Weight:** 19.3kg **Rate of fire:** 25rpm **Effective range:** 70-2,330m



Zakłady Mechaniczne Tarnów » LM-60 K Commando

The LM-60 K Commando mortar is a handheld weapon aimed by eye for direct or indirect fire at very short ranges. The mortar is equipped with a breech block for fixed or free firing pin fire mode. It can be operated by one person. **Calibre:** 60mm **Feed mechanism:** drop-fed **Weight:** 7.8kg **Rate of fire:** 25rpm **Effective range:** 67-1,300m



Medium » Arsenal 2000 » M81MA

The M81MA is a crew-served 81mm mortar which divides into three components for manpacking. **Calibre:** 81mm **Feed mechanism:** muzzle loading **Weight:** 15.3kg barrel, 13kg baseplate, 12.2kg bipod, 1kg sight; 41.5kg complete **Barrel length:** 1.48m **Sights:** MUM-706A **Rate of fire:** 15rpm

