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Jane's

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How to use this book

The book is laid out in a series of main sections, each of which relates to a particular weapon type, for example, Pistols, Rifles, and so on. Within each section details are provided of Development, giving the outline history of the weapon, Description, providing the technical details, and Data, the hard facts relating to each weapon as far as can be determined. Then follows Status and Manufacturer. The details provided for the Manufacturer are the outline address only (where positively identified) — telephone and fax information is

provided in the Manufacturers Index at the rear of the book.

Within each weapon type the section is laid out in country order. Within each national section the newest models are placed first. If only a weapon designation is available it may be found using the main Index.

A National Inventories section contains a nation-bynation list of the known types of weapons in service. It cannot be fully comprehensive so additional or corrective information would be welcomed by the Editor.

To help users of this title evaluate the published data, Jane's Information Group has divided entries into three categories:-

- VERIFIED The editor has made a detailed examination of the entry's content and checked its relevancy and accuracy for publication in the new edition to the best of his ability.
- UPDATED During the verification process, significant changes to content have been made to reflect the latest position known to Jane's at the time of publication.
- NEW ENTRY Information on new equipment and/or systems appearing for the first time in the title.

In future all new pictures will be dated with the year of publication. New pictures this year are dated 1996.

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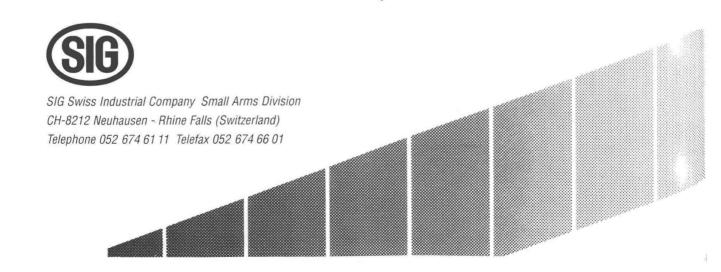
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Foreword

Too few people are paying attention to the current huge toll of death and destruction being inflicted by infantry weapons — which are killing more people every year than any other type of weapon or weapon system. They are not always in the hands of the soldiers for whom they were intended.

That this has been so for some considerable time takes on extra importance when considering the funds which have been spent on weapons and weapon systems of every other kind. Wealth on a lavish scale has been expended on missile systems, warships, all manner of aircraft platforms, and armoured vehicles by the thousand, yet relatively few of them have ever been used in anger for they were not designed and manufactured for the type of low-intensity conflict now prevalent. Infantry weapons outnumber all others. The United Nations Secretary General, Boutros Boutros Ghali, has stated that infantry weapons account for some 90 per cent of the deaths and injuries in armed conflicts.

As with all other weapons, rifles and hand guns are made with the expectation that they will be used. However, the main reason that infantry weapons are having such an effect on the human race at present is the scale of their proliferation.

All around the world, recent years have witnessed a massive increase in the quantities of infantry weapons in all manner of hands with irregular or unlawful purposes. The result is a rising tally of death and injury in locations where once such escalations were low scale or almost unknown. Locations such as Central and West Africa, the Indian subcontinent and parts of the former Soviet Union come readily to mind, while there are many others. In South African townships, where conflict is no stranger, the current most common cause of death among males aged between 20 and 30 years is gunshot wounds.

There appears to be one main reason why this proliferation has taken place. Given that the world has become a very violent place, and that the aftermath of major conflicts and political confrontations has resulted in infantry weapons being distributed to allies of one side or other of the major power blocs during the last 50 years, it has to be accepted that in parts of the world the abject failure of some states to govern has led to the current enormous demand for infantry weapons. As fragile governments and regimes crumble under the pressures of corruption, incompetence or old unsettled quarrels, populations tend to lose whatever affiliations they might have had to the state and revert to other loyalties such as religious, ethnic or tribal groupings. As states lose control, crime flourishes and adds further tensions. Weapons are obtained from whatever sources are convenient for protection against supposed or real enemies. Local disputes once settled with clubs, edged weapons or, at best, sporting firearms, are instead conducted using more lethal weapons. The demand for more and more weapons grows. Being relatively compact and light items, they can almost always be supplied at a profit by established smuggling and criminal routes. The ratchet of misery is thereby nudged a further notch.

There is no shortage of weapons to be obtained. A United Nations Institute for Disarmament Research paper (no 34) lists nearly 300 manufacturers in over 50 countries manufacturing small arms, associated equipment and accessories. This represents a 25 per cent increase in companies over a 10-year period when the end of the Cold War resulted in a glut of weapons anyway.

That glut has produced some bizarre results. The United Nations paper already quoted estimates that in Mozambique alone there are 1.5 million Kalashnikov series weapons unaccounted for. In the Northwest region of the Indian subcontinent stockpiles of rifles numbering some two to three million have been reported. The latter have been appearing as far away as Mumbai (Bombay) and Sri Lanka. Some of the Mozambique weapons changed hands in Rwanda for as little as a bag of maize.

Something needs to be done. After the understandable efforts to establish treaties relating to nuclear stockpiles, chemical weapons and land mines, the proliferation of infantry weapons must be accorded a higher priority than the subject has received to date. It may be impossible to control fully the movement of light weapons but the efforts of the

agencies attempting to do so would be considerably aided if a central pool of information could be established relating to batch numbers, quantities, end users, stocks held, and so on. It would also be of considerable importance to the cause of peace if some nations and concerns currently manufacturing and marketing relatively low-tech weaponry would take a more responsible view of their activities.

At present there is no centralised method of supporting data-gathering organisations or ways of placing sanctions on rogue supplier nations. The United Nations has no effective means of dealing with the proliferation of infantry weapons. The UN Charter even restrains the body's authority to intervene in the internal affairs of member states. Perhaps a start could be made by UN member nations giving their organisation more 'teeth'.

Seen in this light the contents of this Yearbook take on an even greater importance.

Ammunition

Having stated the above, consideration of the past year's infantry weapon developments has to relate to the official aspects of small arms. There have been several recent highlights but most come under the headings of ammunition and systems rather than the usual categories of new pistols, rifles and so on. As a short perusal of the New Entries pages of this Yearbook will soon reveal, most of the completely new material relates to ammunition types.

The Ammunition section has been completely revised this year to provide a more in-depth study of what, after all, are the real weapons delivered by firearms, namely the bullets and other projectiles. It should be borne in mind that the coverage provided relates to military cartridges only as a Yearbook of this nature cannot attempt to cover the many and various commercial and sporting cartridges produced today.

Yet the term ammunition does not include just cartridges. For our purposes it also includes mortar bombs and it is here that the past year has witnessed some significant developments in the so-called smart munition field normally associated with artillery but now extending to infantry mortars. Although these have been around for a while, this past year has seen some programmes come to full technical fruition.

During 1995 the Bofors/Saab 120 mm Strix was the first smart mortar munition to reach full production status and is now being issued to the Swedish Army, thereby becoming the first of its kind to enter service anywhere in the world. Strix will not be the last. The Diehl Bussard guided 120 mm mortar bomb is involved in the Precision Guided Mortar Munition (PGMM) programme for possible US Army service in association with Lockheed Martin, while the 120 mm Gran (Facet) laser-guided mortar bomb has been offered to the world's export markets by the Russians. The UK self-homing 81 mm Merlin is also well advanced along its path to production, although a firm order has yet to emerge. In the USA development work on fibre optic guidance methods for mortar munitions are reported to be progressing well.

Other significant ammunition developments which have come closer to production during the last year relate to fuze systems. Advanced projects such as the US Objective Individual Combat Weapon (OICW) and Objective Crew Served Weapon (OCSW) have to involve highly accurate time fuzes which are set by the respective fire control systems only an instant before firing to ensure that their airburst projectiles function exactly when required. The airburst function is, after all, the main reason why the OICW and OCSW are being developed and the latest available information relating to these weapons will be found in their relevant sections. However, the technology involved has passed from the developmental to the hardware stage over the last few months and a new era will soon be upon us. The electronics and other associated techniques employed with the OICW and OCSW will eventually find many other applications in other areas of the infantry weapons field. Armourers will soon have to add oscilloscopes to their tool boxes.

To revert to less technically advanced topics, new ammunition types continue to appear on the scene. One, mentioned in these pages for the first time, is the 0.357 SIG, a combination of the 0.357 Magnum bullet



and the necked case and loading from the 0.40 S & W. SIG have already produced pistols to fire this potent round so we can now await the course of ready acceptance or relegation as yet another byway of ammunition development, the latter being something which has happened to many other cartridges which seemed promising but failed to find sufficient takers.

One well established cartridge which will take some effort to topple from its position as the most widely used pistol and sub-machine gun cartridge is the 9×19 mm Parabellum. This venerable design has been around since the turn of the century, with various forecasts that it would fade away proving wrong.

There seem to be many sound reasons for the 9 mm Parabellum's replacement. Among others, in modern terms it is relatively low powered, has an indifferent armour penetration performance (an important consideration in these times of the increasing use of body armour by military, police and paramilitary forces), while retaining a high level of potentially lethal energy capable of harming non participants for some distance in excess of the ranges at which it is normally employed operationally. Yet the 9 mm Parabellum soldiers on apparently heedless of such considerations.

It now seems that at least one concern is determined to make inroads into the 9 mm Parabellum's predominance. The ever-innovative Fabrique Nationale Herstal (FN) has launched a major long-term programme relating to its 5.7 × 28 mm SS190 cartridge. Once again, this cartridge is nothing new as it has received coverage within this Yearbook for some years. Until now only one weapon was available to fire it, FN's futuristic P90 Personal Defence Weapon. That will change during 1996 with the introduction by FN of its Five-seveN pistol, also firing the SS190. (See the entry in the Pistols section for available details on the Five-seveN.)

FN is expending considerable resources to market what it already refers to as a weapon system firing the 5.7×28 mm SS190 which, it claims, is the true replacement for the 9 mm Parabellum. FN outlines numerous reasons, covering headings such as logistics and low recoil to ballistic and on-target performance. The seeming advantages of the new round over the 9 mm Parabellum veteran are indeed many and we wish FN well with its endeavours. The company is obviously aware of the long and difficult path it will have to traverse if it is to achieve even a partial replacement of the 9 mm Parabellum but the potential rewards are substantial and likely to be very long-lasting. We await results, although it may be some years before they are forthcoming. Apparently FN is willing to wait 10 to 15 years before assessing the degree of market penetration success. We look forward to charting the progress.

Innovations

While the past year cannot be said to have been a vintage one regarding infantry weapon designs (other than the first views of the OICW and OCSW), there have been some items of note. Included in this edition are some entirely new products on the market although several are already familiar in other guises.

For instance the GLOCK compact pistols are exactly as stated, compact versions of already well established and successful models. The Czech CZ Model 100 and Polish MAG 95 are indications that designers from the former Eastern Bloc have taken note of safety and other design trends in the West to ensure their products have at least a chance in the market place. Both pistols fire the 9 mm Parabellum cartridge. In this area the Russians are being somewhat subdued and no doubt have something in the pipeline more advanced than their PMM, an update of their PM Makarov pistol, which can now fire a more powerful 9 × 18 mm cartridge which merely places it in the run-of-the-mill 9 mm Parabellum category. What that something is we will have to wait and see. Their 9 mm Gyurza, fearsome in body armour-piercing performance as it might be, is definitely in the special forces category and is unlikely to find acceptance on any wide scale as a standard service pistol. We await developments from that quarter.

On the rifle front, there have been relatively few innovations this year, other than the little 5.56 mm Galil Micro, unless one contemplates the specialised sniper rifles. The French PGM series makes its appearance for the first time while mention of a missing link in the Russian armoury can be made at last. This is the 12.7 mm V-94 sniper rifle.

As with its counterparts in the West, the V-94 is not really a sniper rifle but an anti-materiel rifle, capable of taking out critical items of equipment and light vehicles up to ranges of about 1,500 m. The usual limitations of the 12.7 mm cartridges, from both East and West, preclude employment against anything smaller than communications shelters, trucks and aircraft at such ranges but the economic single shot from an anti-materiel rifle can wreak havoc and makes the development of such weapons worthy of increasing consideration.

However, it seems that designers are unwilling to place limits on the calibre of such weapons. The inclusion this year of the extraordinary

20 mm RT-20 produced in Croatia is an indication of what could well be an avenue for further development. The designers of the RT-20 seem have deduced that if a 12.7 mm round can be usefully employed in the anti-materiel role, why not go one step further? That step has led to the RT-20 firing 20 mm cannon ammunition. No doubt the on-target effects are worthy of the designers' efforts but the introduction of such a cartridge creates all manner of user problems. Quite apart from the weights involved, the recoil produced on firing the RT-20 cannot be comfortable or bearable for any prolonged use. One is reminded of the First World War 12.7 mm Mauser anti-tank rifle which created damaged collar bones when fired but once by any particular individual. If the result was a damaged tank this was apparently considered acceptable but such deployments are unlikely to be considered economic in personnel management terms these days. Hence the recoilless arrangements and large muzzle brake of the RT-20. No doubt these palliatives do work to a certain extent but the sight of generous amounts of foam rubber padding on shoulder/butt interfaces does not inspire confidence. Neither does the prospect of the rearwards-facing venturi kicking up debris to indicate the firer's position. Yet for all this the RT-20 is a formidable addition to the soldier's array of potential weaponry.

The RT-20 already has a stable mate. As this Foreword was being prepared news arrived of the South African AEROTEK NTW 20 antimateriel rifle firing 20 × 82 mm ammunition. This, as with the RT-20 appears to be a formidable piece of kit which, it is claimed, has a very low recoil for its calibre, no doubt because of the large muzzle brake and combined hydraulic/pneumatic damping and buffer systems. Available details regarding the NTW 20 appear in the *Addenda*.

Future anti-materiel rifles might well utilise the Eastern Bloc 14.5 × 114 mm round. One of the Hungarian anti-materiel rifles, the Gepard M3, already employs this cartridge. As we go to press (and unfortunately too late for inclusion elsewhere in this edition) news has arrived of a Czech design foray utilising the 14.5 × 114 mm cartridge. This is not a rifle but a heavy machine gun, a project employing the KPV 14.5 mm machine gun on a ground tripod as a heavy fire support weapon; the new combination has been named the Pirat. Until now KPVs have either been deployed on air defence carriages or armoured vehicles. Utilising the KPV on a ground tripod makes some sort of sense until one contemplates the total weight involved with the Pirat, namely 202 kg. In action the Pirat requires a crew of three (one gunner and two ammunition handlers) and a heavy softmount arrangement has to be included to reduce the considerable recoil and judder produced on firing. From the little information on hand regarding the Pirat it seems that the end result will be something of a handful for any infantry unit to contemplate. As yet the Pirat is in the prototype stage. An earlier Russian development along similar lines, the 14.5 mm PKP dating from the 1950s, found only limited acceptance and soon faded from the scene.

One other machine gun innovation worthy of note is the 12.7 mm technology demonstrator produced by CTA International, a joint concern formed by Giat Industries of France and Royal Ordnance of the UK. The prime purpose of CTA International is to develop and produce a 45 mm vehicle cannon firing Case Telescoped Ammunition (CTA) but their 12.7 mm Gatling-type machine gun is another possible application for such ammunition.

At this stage the CTA International 12.7 mm machine gun remains as stated, a technology demonstrator, but the advantages of CTA are such that it has numerous logistic, ammunition handling and economic attractions (among others). The CTA concept is no novelty as anyone with any knowledge of small arms history will already be well aware, but until now it has failed to achieve the acceptance level that mass production requires. That now seems certain to change and it could well be that this time the CTA International 12.7 mm machine gun and its experimental rounds mark a significant landmark in infantry weapon development. That is something for the longer term.

Sights

The section on Sighting Equipment has some interesting innovations this year. Once again all manner of remarkable but expensive vision and sighting devices are included, yet there are also some other significant innovations covered for the first time. One is the Bushnell HOLOsight, which introduces holography to the firearms user's selection of available technology, while on a more down to earth level there is the Trijicon self-luminous series which is used with both eyes open.

The latter is but one example of a now widespread 'red dot' type, although the Trijicon ACOG series has understandably gained widespread acceptance. It is one of the options available for another innovation mentioned in these pages for the first time, namely the Modular Weapon System (MWS) produced by the Knight Armament Company and intended for use by US Special Forces. The MWS is basically an M16A2 with its forestock and sight table configured to accept a wide range of sighting and other accessories to meet specific

nission requirements. This latter point has to be stressed for some publicity shots issued to illustrate the MWS resemble gun enthusiasts' Christmas trees, with every possible accessory in place. Such cluttered combinations are most unlikely to see operational use. Instead the MWS will carry only whatever accessory or sight is needed for each particular mission. The rest of the MWS options will stay secure in their packing cases until needed.

Suppressors

This edition contains a new section on Suppressors. It has to be acknowledged that it is incomplete and very much a first attempt but it is hoped that inclusion of this section will prompt the information to make it more encyclopaedic. This new section is deemed necessary as the suppressor has already moved out of the category of an attachment for a special purposes weapon into more general use, although many potential users will not have noticed this as yet.

The suppressor, or silencer as it is commonly known, does two things to the firing signature of a weapon. It reduces the sound of a shot considerably, to a level where it is difficult for it to be identified as a weapon discharge, and it virtually eliminates muzzle flash. The tactical utility of these two properties is that a target can have no idea from where an unexpected burst of fire is originating, even in general terms. Taking cover from fire or some form of reaction such as return fire is thus made difficult. This alone makes the widespread use of suppressors an attractive proposition. Some armed forces in Northern Europe have already made provisions for the general issue of suppressors but have no intention of breaking into their stockpiles until they are really needed, thus enhancing tactical surprise.

Most current suppressors still come within the special weapons category. Even so, their utility is certain to expand into other areas. Once again, we await developments. In the meantime, any extra information that could expand this section will be much appreciated.

Acknowledgements

This edition marks the Editor's first solo foray, an exercise which has been greatly assisted by many. A top priority when acknowledging such assistance must be accorded to Ian Hogg who has continued to be a fount of advice, assistance and guidance during what has been a very busy period. Also from within the Jane's network, Christopher F Foss and Ian Kemp have been sources of information and help of all kinds. My thanks go to them all. Thanks are also due to many other individuals and organisations, too many to mention by name here although I hope they will recognise their input. Information supplied by many within the industry has, as always, been invaluable and the editor's gratitude is proffered to all concerned.

The production of a Yearbook of this nature and coverage cannot be accomplished without professional help. It is here that the considerable efforts of the Jane's production team comes to the fore and I can only repeat my admiration and thanks to all concerned for yet another job well done. The teams headed by Ruth Simmance and Sulann Staniford have been more than helpful while remaining cheerfully tolerant of the many hitches a book of this nature experiences during preparation. A special mention of thanks is more than due to Jane Stimson who has acted as the main contact point between the editor and the production teams. Her competence has been of the greatest assistance on many occasions. My repeated thanks to all.

Terry J Gander

The Editor would welcome any extra information, corrections or comments regarding the contents of this Yearbook for he is well aware of how isolated an individual can become in the defence market place without such inputs. Please direct all correspondence to the Editor at *Jane's Infantry Weapons*, Jane's Information Group, Sentinel House, 163 Brighton Road, Coulsdon, Surrey CR5 2NH, United Kingdom.

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New entries in this Edition

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9 mm GLOCK 26 subcompact pistol 0.40 GLOCK 27 subcompact pistol 5.7 mm FN Five-seveN personal defence weapon 9 mm P-9 Gurza Pistol 9 mm PM self-loading pistol 9 mm HS 95 pistol CZ Model 100 and 101 pistols 9 mm Minimax 9 pistol Revolver 0.32 Mark 1 9 mm Beretta Model 92 Brigadier FS Beretta Model 92, 96 and 98 Stock Beretta Model 92, 96 and 98 Combat 9 mm P-93 pistol 9 mm MAG 95 pistol Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle S.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/haefensive hand grenade RG-42 offensive hand grenade RG-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 offensive hand grenade	Austria Austria Belgium CIS CIS Croatia Czech Republic Hungary India Italy Italy Italy Poland Poland Romania Switzerland USA USA USA USA CIS CIS CIS Croatia Romania	POF WP P-1 smoke grenade POF target indication grenades Dezamet rifle grenades Swartklip 40 mm grenades Swartklip 40 mm high-velocity grenades MFA HG 85 defensive hand grenade MFA OHG 92 offensive hand grenade MFA SIM HG 93 training hand grenade MKEK hand grenades Haley and Weller N110 screening smoke grenade FAMAE 60 mm 60-M-61-A HE bomb FAMAE 81 mm 81-M-57-DA HE bomb FAMAE 120 mm 120-44/66 HE bomb 60 mm Type 63-1 fragmentation projectile 82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	Pakistan Pakistan Poland South Africa South Africa Switzerland Switzerland Turkey UK Chile Chile Chile PRC PRC PRC
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Beretta Model 92, 96 and 98 Stock Beretta Model 92, 96 and 98 Combat 9 mm P-93 pistol 9 mm MAG 95 pistol Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Pype 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RAha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Italy Italy Italy Poland Poland Romania Switzerland USA USA USA USA CIS CIS CIS Croatia Romania	FAMAE 60 mm 60-M-61-A HE bomb FAMAE 81 mm 81-M-57-DA HE bomb FAMAE 120 mm 120-44/66 HE bomb 60 mm Type 63-1 fragmentation projectile 82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	Chile Chile Chile PRC PRC PRC
Beretta Model 92, 96 and 98 Combat 9 mm P-93 pistol 9 mm MAG 95 pistol Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 9 FGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	Italy Poland Poland Romania Switzerland USA USA USA CIS CIS CIS Croatia Romania	FAMAE 81 mm 81-M-57-DA HE bomb FAMAE 120 mm 120-44/66 HE bomb 60 mm Type 63-1 fragmentation projectile 82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	Chile Chile PRC PRC PRC
9 mm MAG 95 pistol 9 mm MAG 95 pistol Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 9 GM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	Poland Poland Romania Switzerland USA USA USA USA CIS CIS Croatia Romania	FAMAE 120 mm 120-44/66 HE bomb 60 mm Type 63-1 fragmentation projectile 82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	Chile PRC PRC PRC
9 mm MAG 95 pistol Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 9.55 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Poland Romania Switzerland USA USA USA USA CIS CIS Croatia Romania	60 mm Type 63-1 fragmentation projectile 82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	PRC PRC PRC
Romtehnica 9 mm self-loading pistol SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Romania Switzerland USA USA USA USA CIS CIS CIS Croatia Romania	82 mm Type 53 smoke bomb 82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	PRC PRC
SIG-Sauer P239 pistols Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 9 FGM UR Commando 7.62 mm sniping rifle 15.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Switzerland USA USA USA USA CIS CIS CIS Croatia Romania	82 mm Type 53 illuminating mortar bomb NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	PRC
Kel-Tec 9 mm P-11 pistol 9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA USA USA USA CIS CIS Croatia Romania	NORINCO ammunition for 100 mm Type 71 mortar NORINCO ammunition for 120 mm Type 55 mortar	
9 mm Smith & Wesson Model 410 pistol 9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	USA USA USA CIS CIS Croatia Romania	NORINCO ammunition for 120 mm Type 55 mortar	1110
9 mm Smith & Wesson Model 909 and 910 pistols Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun Ruger 9 mm MP-9 sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM Hecate II 12.7 mm sniping rifle S.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	USA USA CIS CIS Croatia Romania	7.0	PRC
Ciener 0.22 LR Beretta 92/96 Conversion Kit 9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 9 mm sub-machine gun Ruger 9 mm MP-9 sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifles PGM UR Commando 7.62 mm sniping rifles PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RG0-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	CIS CIS Croatia Romania		CIS
9 mm 9A-91 sub-machine gun Kiparis 9 mm sub-machine gun 9 mm sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS Croatia Romania	Thomson-Brandt ammunition for 81 mm mortars	France
9 mm sub-machine gun 9 mm sub-machine gun Ruger 9 mm MP-9 sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 9.55 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGO-78 contendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Croatia Romania	82 mm dual purpose mortar bomb	Hungary
9 mm sub-machine gun Ruger 9 mm MP-9 sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Romania	IOF 81 mm Illuminating mortar bomb	India
Ruger 9 mm MP-9 sub-machine gun 12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifles PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade		IOF 120 mm Illuminating mortar bomb	India
12.7 mm V-94 sniper rifle RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGO-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	***	120 mm Precision Guided Mortar Munition (PGMM)	International
RT-20 20 mm heavy sniper rifle MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	TAAS 120 mm CL3144 ICM mortar bomb	Israel
MACS 12.7 mm sniper rifle PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifles PGM UR Commando 7.62 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS	EPD M797 electronic point detonating mortar fuze	Israel
PGM UR Intervention 7.62 mm sniping rifle PGM UR Commando 7.62 mm sniping rifles PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Croatia	CIS 60 mm mortar bombs	Singapore
PGM UR Commando 7.62 mm sniping rifles PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Croatia	CIS 81 mm mortar bombs	Singapore
PGM Hecate II 12.7 mm sniping rifle 5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	France	CIS 81 mm Extended Range mortar bombs	Singapore
5.56 mm Galil MAR Micro assault rifle KAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade CDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade	France	CIS 120 mm mortar bombs	Singapore
RAC 5.56 mm Modular Weapon System Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade RGN-86 resive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	France	CIS 120 mm Extended Range mortar bombs	Singapore
Ruger M77 Mark II rifle Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade CDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Israel USA	60 mm Long Range morter bombs	South Africa South Africa
Ciener 0.22 LR Conversion Kits Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	81 mm Long Range mortar bombs MKEK 81 mm mortar bombs	Turkey
Ciener AR-15/M16 belt feed mechanism Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade RGN-86 fensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	MKEK 37 mm mortar bombs	Turkey
Maadi 40 mm grenade launcher Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade RGN-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	MKEK 120 mm mortar bombs	Turkey
Objective Crew Served Weapon (OCSW) MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade RGN-40 iffensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Egypt	HE Ammunition for the 81 mm Mortar M252	USA
MPIM/SRAW CTA International 12.7 mm rotary machine gun Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGO-42 offensive hand grenade RG-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	81 mm Smoke RP M819	USA
Nag anti-tank missile system Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-86 hand grenade RG-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	81 mm Illuminating M853A1	USA
Type 87 Chu-MAT anti-tank missile system PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade Kaha No 1 offensive hand grenade	International	NORINCO 11 mm pyrotechnic pistol	PRC
PG-7M 110 anti-tank projectile MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-42 offensive hand grenade RG-42 offensive shond grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	India	POF flare tripwire Mark 2/2	Pakistan
MACAM anti-tank weapon system Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Japan	Singapore Technologies alarm flare	Singapore
Predator Short Range Assault Weapon PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Slovakia	M49A1 surface trip flare	USA
PIMA 82 mm Mortar M82 Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-42 offensive hand grenade RG-42 offensive hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Spain	Zeiss NSV 80 II night sight attachment	Germany
Lockheed Martin Lightweight 120 mm Mortar Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade CDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	Passive Night Sight	India
Leica SG12 Digital Goniometer 0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RGN-42 offensive hand grenade CDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Bulgaria	El-Op INTIM thermal binocular	Israel
0.22 in Long Rifle 7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	Simrad IS2000 eye-safe laser gun sight	Norway
7.62 × 42 mm SP-4 9 × 21 mm Gyurza 9 × 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Switzerland	Leica VECTOR 1500 DAES range finding binocular	Switzerland
9 x 21 mm Gyurza 9 x 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	Maxi-Bino-Kite night vision binocular	UK
9 x 39 mm SP-5 and SP-6 0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS CIS	Contraves SACMFCS II Magnavox MAG-600 Individual Weapon Thermal Sight	USA USA
0.357 SIG FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS	Magnavox AN/PAS-19 Multipurpose Thermal Sight	USA
FM rifle grenades MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	USA	BUSHNELL HOLOsight	USA
MECAR HE-AP-RFL-35, BTS M235 CLAW FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Argentina	ITT Integrated Day/Night Scope F7111	USA
FAMAE GM 78-F7 offensive/defensive hand grenade RGO-78 defensive hand grenade RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Belgium	Trijicon Advanced Combat Optical Gunsights (ACOG)	USA
RGN-86 hand grenade RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	Chile	Trijicon ACOG Reflex Sight	USA
RG-42 offensive hand grenade ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS	Trijicon Night Sights	USA
ZDP incendiary smoke hand grenade Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS	Insight M30 Boresighting Equipment	USA
Kaha No 1 defensive hand grenade Kaha No 1 offensive hand grenade	CIS	PBS-1 Silencer for Assault Rifles	CIS
Kaha No 1 offensive hand grenade	CIS	Valme Silencers	Finland
	Egypt	BRUGGER + THOMET IMPULS-II Pistol Silencer	Switzerland
Giat 40 mm AP/AV rifle grenade	Egypt	BRÜGGER + THOMET IMPULS-III Pistol Silencer	Switzerland
		BRÜGGER + THOMET SUC Pistol Silencer	Switzerland
Ruggieri Type 0052 and Type 0052A hand grenades	France	BRUGGER + THOMET Silencers for Sub-machine Guns	Switzerland
ALSETEX SAE 210 offensive grenade ALSETEX SAE 310 controlled fragmentation grenade	France	BRÜGGER + THOMET Detachable Silencer for MP5 BRÜGGER + THOMET Silencers for Assault Rifles	Switzerland Switzerland
ALSETEX SAE 310 controlled fragmentation grenade ALSETEX screening smoke grenades	France France	BRÜGGER + THOMET Integrated Silencer Systems	Switzerland
ALSETEX coloured smoke grenades	France France France	Ciener Sound Suppressors	USA
Nico 40 mm training grenade cartridges	France France France France	Gemtech SOS Suppressor for Pistols	USA
Elviemek EM 03 practice hand grenade	France France France France France	Gemtech Vortex-9 Suppressor for Pistols	USA
IOF 36M hand and rifle grenades	France France France France France Germany	Gemtech MK-9K Suppressor for MP5	USA
GT-5PE A2 hand grenade	France France France France France	Gemtech MINI-TAC Suppressor for MP5	USA
POF plastic hand grenade	France France France France France Germany Greece		USA
POF metal hand grenade	France France France France France Germany Greece India	Gemtech COMMANDO Suppressor for 5.56 mm Carbines	USA

Entries deleted from this Edition

(Page entries are from the 1995-96 edition)

Entry	Country	Entry	Country
9 mm Mauser Models 80 and 90 pistols	Germany	82 mm HE/fragmentation bomb Type 20	PRC
9 mm Model P88 pistol	Germany	RDG-1 smoke hand grenade	CIS
9 mm Model 92FC	Italy	Losfeld fragmentation grenade	France
9 mm Beretta Model 92FCM	Italy	Losfeld multipurpose anti-personnel grenade	France
9 mm Models 92FS Inox and 98FS Inox	Italy	ETSQ electronic mortar fuze	Germany
9 mm Model 2000	USA	Elviemek EM10 rifle grenade	Greece
Colt Offensive Hand gun Weapon System	USA	Elviemek EM14 rifle grenade	Greece
10 mm Smith & Wesson Model 1000 series pistol	USA	Elviemek EM12 screening smoke rifle grenade	Greece
Ruger KP89 Convertible pistol	USA	Borletti FB 282 mortar point detonating fuze	Italy
9 mm Calico M950 pistol	USA	Round, 40 mm, HE M848A1	South Africa
Calico 9 mm M-900 carbine	USA	M545 Universal fragmentation grenade	USA
5.56 mm Colt M231 firing port weapon	USA	M560 series anti-personnel fragmentation	
7.62 mm SAR-8 rifle	USA	grenades	USA
M2A1-7 portable flame-thrower	USA	Ring Airfoil Grenade (RAG)	USA
M9E1-7 portable flame-thrower	USA	82 mm shrapnel bomb Model 81	Vietnam
66 mm M202A2 multishot portable flame weapon	USA	Alsetex audio-visual chemical alarm	France
Marquardt MultiPurpose Individual		Model 56 hand smoke grenade	France
Munition (MPIM)	USA	1 in Beretta signal pistol	Italy
7.62 mm Uirapuru Mekanika machine gun	Brazil	71 mm Lyran illuminating system	Sweden
SIG 7.62 mm 710-3 general purpose machine gun	Switzerland	Federal Laboratories coloured smoke grenades	USA
20 mm M40 anti-aircraft cannon	Sweden	Federal Laboratories Parachute and Meteor flares	USA
2K8 Falanga anti-tank guided missile system	CIS	Contraves SACMFCS integrated sight	USA
82 mm M59 and M59A recoilless guns	Czech	Magnavox Short-Range Thermal Sight (SRTS)	USA
	Republic and	M921 submersible night vision sight	USA
	Slovakia	M937/M938 individual weapon sights	USA
Aries anti-tank missile system	Spain	Litton AIM-1D/DLR laser aiming light	USA
Saber multipurpose missile system	USA	ITT F4961 day/night combat rifle sight	USA
81 mm fragmentation projectiles	PRC	ITT F4960 Stinger Night Sight	USA
82 mm M30 HE/fragmentation bomb	PRC	F4965 rifle night sight	USA
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Glossary

AAT	Arme Automatique Transformable.	Barrel	That part of a gun through which the	Buffer	A resilient unit at the rear of a
	French equivalent of general purpose machine gun		projectile is launched and given direction.	nuici	machine gun body, against which the recoiling bolt impacts, absorbing
Accelerator	Component of a recoil-operated weapon intended to give extra velocity to the bolt or breech block	Barrel extension	A frame attached to the barrel of a recoil-operated automatic weapon and carrying the breech block or bolt, and		recoil energy. Resilience may be caused by springs, rubber, oil or pneumatic force.
	during recoil. Best known application		usually carrying some means of	Bullet	Projectile fired from a small arm.
ACLOS	is the Browning machine gun. Automated Command to Line Of		locking the bolt to the extension and so to the barrel.	Bulleted blank	Blank ammunition using a light wooden, paper or plastic bullet which
	Sight, Advanced anti-tank missile	Baton round	Cartridge for large calibre riot control		disintegrates at the muzzle.
	guidance system in which the missile identifies the target and steers to it		weapons using a low-velocity, non- lethal plastic or rubber projectile		Frequently adopted in order to avoid feed mechanism troubles which can
	without operator intervention. Also	D.	intended to stun or bruise.		arise with unbulleted blank cartridges.
	called third generation and fire-and- forget.	Bayonet	Knife-like weapon with a short blade attached to the rifle muzzle for close	Bullpup	A rifle in which the breech mechanism is set back in the stock so
ACP	Automatic Colt Pistol. Differentiates		combat.		that the end of the receiver is against
	certain pistol cartridges from others of similar calibre but different	Belted	A cartridge case with a raised belt near the base which positively locates		the firer's shoulder. It permits the use of a full-length barrel in a weapon
	dimensions. Applied to cartridges		the case in the gun chamber and		which is, overall, shorter than a
	originally developed for Colt automatic pistols.		reinforces the base for use with high pressure propellant charges.		conventionally stocked weapon of the same barrel length.
ACR	Advanced Combat Rifle	Belt feed	System of supplying ammunition to	Butt	That part of a small arm which is held
Advanced primer ignition	System of operation common in sub-machine guns in which the primer		automatic weapons by means of a flexible canvas or metal belt into		against the shoulder and which transfers recoil force to the firer's
primer ignition	is struck and the cartridge fired whilst		which cartridges are fixed. May retain		body.
	the bolt is still moving forward. The		its form when empty or be of the	Calibre	The coming discrete of a committee
	explosion force must arrest the bolt before causing it to return,		disintegrating link type with the belt falling into individual links when the	Cambre	The nominal diameter of a weapon's bore, measured across the lands (qv).
	introducing a fractional delay between	Pont	cartridges are removed. A notch cut into the weapon's bolt or		Also used as a measure of length,
	firing and breech opening, permitting the bullet to leave the barrel. Also	Bent	breech block, striker or hammer, into		example 26 calibres length and applied to barrels and bullets.
	absorbs some recoil energy, allowing		which the sear engages to hold the	Cannelure	A groove in a bullet enabling the
AGL	the bolt to be lighter. Automatic Grenade Launcher	BFA	component ready to fire. Blank Firing Attachment. Device		metal of the cartridge case mouth to be pressed in to secure the bullet and
AIFV	Armoured Infantry Fighting Vehicle		fitted to the muzzle of an automatic		case together or to contain lubricant to
AK	Avtomat Kalashnikova (CIS); Automatische Karabiner		weapon to restrict the exit of gas from the barrel when firing blank cartridges		ease the passage of the bullet up the bore. Also a groove pressed into a
	(Switzerland); Automat Karbin		and thus provide sufficient pressure to		cartridge case to facilitate location
AKM	(Sweden) Avtomat Kalashnikova		actuate the weapon's self-loading cycle.	Carbine	into a feed belt. A short rifle. Traditionally the self-
	Modernizirovannyi	Blank	Small arms ammunition with a charge		defence arm of cavalry, engineers and
AKS	Avtomat Kalashnikova Skladyvayushchimsaya		of powder and no bullet, so as to provide noise on firing. Used for		artillery whose primary task was not using a shoulder arm.
Annulus	Recessed ring around the cartridge		training, to simulate weapons firing.	Cartridge	(Small arms) A unit of ammunition
	primer, formed when securing cap to case. Frequently coloured to provide	Blowback	System of operation of self-loading and automatic weapons in which		sufficient to fire one shot, comprising cap, case, propellant and bullet; also
(D	identification of cartridge type.		breech pressure overcomes inertia of	0	called a round (qv).
AP	Armour-Piercing. Signifies a solid projectile for kinetic energy attack of		breech closure. Used principally in low-powered weapons such as pistols	Cartridge case	Brass or steel metal container holding propellant and supporting bullet and
	armour.	D1 0 1	and some sub-machine guns.		primer cap.
APC	 Armoured Personnel Carrier. Armour-Piercing, Capped. An AP 	Blow-forward	System of operation in self-loading weapons analogous to blowback, but	Cartridge headspace	The distance between the face of the bolt or breech block and the base
	projectile with a penetrating cap over		in which the breech block is firmly		of the cartridge case when the weapon
APCBC	its point. Armour-Piercing, Capped, Ballistic		anchored to the weapon frame and the barrel moves away from it, returning		is loaded. A critical dimension in a weapon's assembly; if insufficient, the
	Capped. An APC projectile with a		to chamber the next round. Rarely		bolt or breech block will not close or
	light ballistically shaped nose cap to improve flight characteristics.	BMS	encountered. Battalion Mortar System (USA)		lock; if excessive, the case can move back on firing and burst or split.
APDS	Armour-Piercing, Discarding Sabot.	Boat-tailed	A bullet in which the base diameter is	Caseless	A cartridge with no metal case and
	A kinetic energy attack projectile with a heavy core, supported in the gun by		less than the maximum diameter and the base is tapered, permitting airflow		with the propellant formed into a block, into which the bullet and cap
	a light metal or plastic sabot which is		over the bullet to converge rapidly	54 SA	are embedded.
APFSDS	discarded at the muzzle. Armour-Piercing, Fin-Stabilised,		behind the base and thus reduce drag. Streamlined in British usage.	Centre fire	That class of small arms ammunition which has the primer cap located
	Discarding Sabot. Kinetic energy	Bolt	Part of a small arm which closes the		centrally in the base of the cartridge
	projectile using a heavy, dart-like subprojectile supported in the gun		breech. Generally indicates some rotary motion. Where no rotary	Chamber	case. That portion of the barrel into which
	bore by a light sabot. Used generally		motion is involved, the component is		the cartridge is positioned for firing.
	with smoothbore anti-tank weapons but also found with rifled weapons, in	Bolt action	usually called a breech block. Breech closure by means of a hand-	Change lever	A lever or switch which allows the firer to select single shots or
	which case the driving band merely	2000 4000	operated bolt moving in prolongation		automatic fire in some weapons. Also
	seals and is free to rotate, so as to impart minimum spin to the		of the barrel axis. May be a turnbolt in which the bolt is pushed forward and		called selector, and may be incorporated with the safety catch.
	subprojectile.		given a partial turn to lock in; or a	Charger	A metal frame holding a number of
APS ATGW	Avtomaticheskiy Pistolet Stechkina Anti-Tank Guided Weapon. A missile		straight-pull bolt in which the manual action is a simple reciprocating		cartridges. The loaded charger is placed at the mouth of the weapon
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	guided to its target and intended for		movement and the bolt is rotated by		magazine and the cartridges pressed
AUG	the attack of armoured vehicles. Armee Universal Gewehr	Bore	cams. The interior of a weapon's barrel,		down into the magazine with the thumb, after which the empty charger
Automatic	(Loosely) Any self-loading pistol	Dore	from the rear face of the chamber to		is discarded. Popular with bolt-action
pistol		Bottle-necked	the muzzle. A cartridge case in which the		rifles and occasionally used with automatic pistols.
D-II	*	Donne-necked	diameter is reduced at the mouth to	Clip	A metal frame holding a number of
Ball ammunition	Ammunition using a solid, inert bullet		accommodate the bullet, which is smaller in diameter than the body of	20	cartridges. The loaded clip is inserted
Ballistic	Measure of a projectile's carrying		the case. Provides a greater volume in		into the weapons' magazine and becomes an integral part of the feed
coefficient	power. A function of the projectile mass, shape, diameter and coefficient	Pay many	a given length of cartridge.		system. As the last cartridge is loaded
	of steadiness.	Box magazine	Ammunition supply in the form of a metallic box, either integral with the		the clip is ejected from the magazine. Used with rifles, notably the bolt-
Ballistite	Obsolete propellant principally used		weapon or detachable from it. May be		action Mannlicher and the self-
	for launching rifle grenades. By extension, any cartridge used for		mounted above, below or to one side of the weapon.		loading Garand. The principal defect is that the magazine can only be
	launching rifle grenades, even though	Breech	Rear end of the weapon barrel, into		loaded with a full clip; it cannot be
	the propellant is no longer Ballistite.		which the ammunition is loaded.		topped-up when partly emptied.

GLOSSARY

Closed bolt A weapon in which the breech is firer may either thumb back the impact, after short delay, after a closed, though not necessarily locked, before the trigger is pulled. hammer to full cock and then press specified time of flight, or when it the trigger, or pull the trigger through detects the proximity of a target. Chloracetophenone. A chemical CN to raise and then drop the hammer. irritant agent used in riot control The latter option is generally used for **GPMG** General Purpose Machine Gun. A munitions rapid fire, the former for deliberate machine gun capable of operating as a squad light automatic, on a bipod and Coaxial Machine gun on an armoured vehicle mounted with the main armament so Double pull Trigger mechanism on certain fired from the shoulder, or, tripod as to traverse and elevate with it. In selective fire weapons in which the mounted, as a company support some designs the gun can be unlocked first pressure on the trigger fires single weapon. and elevated independently of the shots, and further pressure. Grip safety A lever or plunger let into the grip of main gun, but not traversed overcoming a check spring, provides a pistol or sub-machine gun so as to lock positively the firing mechanism independently. automatic fire. The point in a gun bore at which Commence-Double trigger A firing mechanism on some selective or bolt unless the weapon is correctly ment of rifling the rifling grooves first reach fire weapons in which one trigger held and the grip compressed. Act maximum denth. provides single shot fire and another an automatic safety device to pre Compensator A device attached to a weapon barrel automatic fire. discharge if the weapon is droppe (usually an automatic weapon) to Drag Resistance to motion of the projectile Grooves Spiral cuts in the interior of the barrel divert some of the muzzle blast through the air, caused by a region of which firm the rifling (qv) and thus upward and thus counteract the low pressure behind the base impart spin to the projectile. Number, tendency for the muzzle to rise during Drift Lateral deviation of the bullet in flight contour and dimensions vary automatic fire resulting from the spin imparted by according to the weapon and designer RDX/TNT mixture, commonly 60 per Composition B the rifling.
A circular magazine in which cent TNT and 40 per cent RDX, but Hangfire Ammunition malfunction in which proportions vary between magazine rounds are loaded axially and driven cartridge ignition takes place between manufacturers to the feed lips by a spring a fraction of a second and several Small arms bullet made of Compound seconds after the cap has been struck bullet different substances, for example a Component which throws the empty Ejector In British military specification delay greater than 0.1 second. partly lead and partly steel core held cartridge case clear of the weapon within a steel jacket and coated with a after firing. HR Heavy Barrel. Nomenclature used gilding metal envelope. Such Component which pulls the empty Extractor with a particular model of 0.50 Browning machine gun (the M2) construction gives the mass advantage of lead in the core but allows the steel cartridge case from the chamber after HC Hexachloroethane/zinc screening jacket to engrave into the rifling smoke mixture used in smoke grenades and mortar bombs. Also without leaving deposits. (Colloquial) Premature ignition of a Cook-off Fusil Automatique Légère Fusil Automatique de Manufacture FAL. called Berger Composition after its cartridge caused by heat induced after FA-MAS inventor. loading into a gun chamber made hot d'Armes de St Étienne High Explosive. A chemical substance which, suitably initiated. HE by previous firing.
O-chlorobenzolmalonitrile. Chemical FFRA Forward Edge of Battle Area That portion of the firing cycle during CS Feed undergoes molecular disruption irritant agent used in riot control which a fresh cartridge is removed accompanied by evolution of he munitions. CS, adopted as a code designation, from the names of the from the ammunition supply and aligned before loading into the Headstamp Markings on a cartridge case base inventors, Carson and Stoughton. chamber. usually indicating manufacturer, calibre, date of manufacture or batch Cycle of The successive processes involved in firing a round: feeding, Feedway Area of weapon mechanism in which operation a cartridge is aligned with the chamber after being removed from the chambering, firing, extraction, HEAT High Explosive, Anti-Tank. An anti-armour munition using the hollow or ammunition supply. Fighting In Built-Up Areas ejection, cocking and storing energy FIBUA in a return spring. shaped charge principle The theoretical rate of fire of a A device fitted to the muzzle to Cyclic Flash Hinged frame A revolver in which the barrel and weapon operated continuously and with an infinite supply of ammunition, cool emergent gases, preventing the formation of flash or flame. eliminator cylinder form a movable unit hinged to the butt frame by a pivot pin. In Conical attachment to the muzzle for that is, ignoring the need to change Flash hider firing condition, the two units are magazines or belts.
Component of a revolver in which concealing muzzle flash from an locked together; when the barrel Cylinder observer. Also acts as a flash tipped down about the hinge, the r chambers are bored; held behind the eliminator, though it is less efficient of the cylinder is exposed for loading. High Ignition Temperature Propellant barrel on an arbor or axis pin, so that than a properly designed eliminator. HITP it can be rotated by a mechanism Flechette Thin, subcalibre, fin-stabilised HMG Heavy Machine Gun; an imprecise coupled to the trigger or hammer so as projectile resembling a small arrow term but usually implying a calibre of to present each chamber to the barrel Has been tried as a discrete projectile 12.7 mm or more. in succession for rifles with indifferent success; A mechanism actuated by the Hold-open more successful as a cluster weapon device magazine platform and which holds (Of fuzes) Direct Action fired from major calibre arms. the bolt or breech block to the rear (Of revolvers) Double-Action Flip rearsight A double backsight consisting of two after the last round in the magazine Defensive A hand grenade producing heavy notches or apertures mounted at right-angles, either of which may be rotated has been fired. Indicates that lethal fragments over a radius greater grenade reloading is necessary, retains the mechanism in readiness for reloading than the distance it can be thrown. into position, providing two The thrower must therefore be able to alternative range settings. Chamber of a firearm with thin and when a fresh magazine has been take cover, and this type of grenade is Fluted inserted releases the bolt to run forward and chamber a fresh round chamber usually classed as being for use in grooves cut longitudinally through defensive positions.

An automatic arm in which the bolt most of its length and beyond the mouth of the cartridge case when ready for firing. Delayed or breech block is not positively loaded. On firing, some propellant gas Image Intensifier or Intensifying. An flows down these flutes, equalising the pressure inside and outside the П locked to the barrel for the entire period of the bullet's passage through electro-optical sight incorporating electronic amplification of ambient the bore. Basically a blowback case, thus floating the case on a layer of gas and easing extraction in blowback weapons, particularly when using bottle-necked cases. The light to present an enhanced view of weapon in which the opening of the the target area. Completely passive breech is artificially slowed. and undetectable, though some early Direct fire Fire in which the weapon has a direct units emitted a high-pitched noise line of sight to the target. Cf indirect grooves do not extend to the mouth of which alarmed animals. fire. the chamber, so obturation is not Fire in which the weapon and the target are not within sight of each Part of the firing mechanism of a selfaffected. Indirect fire Disconnector loading weapon which disconnects FM Code designation for titanium the trigger from the remainder of the tetrachloride smoke mixture, used in Infra-Red. System of night viewing relying on the infra-red portion of the IR firing mechanism as soon as the shot mortar bombs is fired and does not reconnect it until Follower The spring-driven platform in a spectrum. May be passive, relying on the firer positively releases the trigger and renews pressure for the next shot, magazine, upon which the cartridges emission of heat by the target, or active in which an infra-red light thus preventing the weapon firing Code designation for a sulphur FS source is used to illuminate the target. more than one shot for each trigger trioxide/chlorsulphonic acid mixture The passive version is now generally called thermal imaging. pressure. In a selective fire weapon the disconnector can be disengaged by used as a screening smoke composition in mortar bombs Internal Security. Generally describes IS Parts of a weapon solely for facilitating handling, example pistol the change lever or selector. Furniture the use of troops to aid the civil DM Diphenylaminochloroarsine. Irritant chemical agent used in some riot grip, stock, fore-end, butt. control munitions. More powerful Traditionally wood, but in modern weapons frequently of synthetic Lands Those portions of the barrel of a rifled than CN or CS. Called Adamsite in the USA after its discoverer. material or metal. weapon between the grooves, and Pistol firing mechanism allowing two Initiating device for an explosive between which the calibre is Double-action Fuze charge or projectile. May function on methods of discharging a shot. The measured.

AW	Light Anti-armour Weapon. Any light, shoulder-fired, unguided rocket weapon for the attack of armoured		gas to the sides and rear, to the discomfort of the firer and his companions.		variously known as Hexogen or Cyclonite. Too sensitive to be used alone, and generally denatured by
ead	targets. (Pronounced leed) The conical progression of the bore of a firearm	NDI NV	Non-Developmental Item (US) Night Vision	Rebated rimless	admixture with TNT or wax. A type of cartridge case in which the extraction rim is smaller than the
	from the chamber into the rifling.	NV	Night vision		base of the case. Found in some 20 mm and small arms cases in
.MG	Light Machine Gun; a machine gun capable of being carried and operated by one man.	Obturation	Sealing against the unwanted escape of gas to the rear of a firearm. In small arms almost always performed by the	Receiver	military use. The body of a weapon. The housing
ock time	The interval between pressing the		expansion of the cartridge case	Recoil	for the bolt or breech block. Attachment to the muzzle of a
	trigger and ejection of the bullet from the muzzle. Shortest in closed bolt		against the chamber walls; in caseless ammunition it is a function of the	intensifier	recoil-operated machine gun to
	weapons, where only the firing pin or		breech block.		impede the muzzle blast and cause the barrel to recoil with greater force,
	hammer has to move, longest in open bolt weapons where the entire bolt	Offensive grenade	A hand grenade producing small fragments over a limited radius and		making automatic action more
	unit has to run forward and chamber a round before firing.	grenade	which can be thrown further than its		positive and providing a reserve of energy to overcome friction caused by
ong recoil	Operating system for automatic		danger radius, permitting it to be thrown by advancing troops who need	Regulator	dust and dirt. A device on gas-operated automatic
	weapons in which barrel and locked breech recoil for a distance greater		not take cover, and thus considered	Regulator	weapons through which gas is
	than the length of a cartridge. The		suitable for use in offensive operations.		channelled from the barrel to the operating piston. Generally with
	breech is then unlocked and held, while the barrel runs back into the	Open bolt	A weapon in which the bolt or working parts are held to the rear		various sizes of port for selection of
	firing position, after which the breech		when the weapon is cocked and there		the amount of gas delivered to the piston, so that more gas can be
	is released to run forward and chamber the next round. Presently		is no cartridge in the chamber. Used on automatic weapons so as to permit		admitted when the gun's action slows
	only encountered in some 40 mm grenade launchers.		a flow of air through the barrel when		because of dirt or fouling and there is no opportunity to strip and clean it.
.R	Long Rifle; a particular type of 0.22		not firing, allowing the barrel to cool. On pressing the trigger the bolt must		Regulators often allow the gas system to be shut off completely so that the
	calibre cartridge		run forward and chamber a round		weapon can be used for launching
Iachine gun	An automatic firearm capable of		before actuating the firing mechanism. This movement tends to throw the	Return spring	grenades. Spring in an automatic or self-loading
menine guii	delivering continuous fire so long as		weapon off the aim, and thus open bolt weapons are considered to be less	Securit spring	weapon which is loaded by the
	ammunition is provided and the trigger pressed.		accurate than closed bolt weapons for		recoiling bolt and which then forces the bolt forward again to recommence
fachine pistol	Ambiguous term which can mean		the first shot.		the cycle of operation.
	either a sub-machine gun or a pistol adapted so as to be capable of	Parabellum	Designs of cartridge and weapons	Revolver	 A pistol in which a rotating cylinder presents successive chambers
Continue al Re	automatic fire. An automatic rifle used as a light		originating with the Deutsche Waffen und Munitionsfabrik of Berlin; from		to the rear of the barrel for discharge. (2) A machine gun or cannon in
Machine rifle	machine gun; generally a rifle with a		their telegraphic address and		which a revolving mechanism strips
	heavy barrel and a bipod. Differs from a true LMG by usually not having a	Patridge sight	trademark. A pistol sight in which the foresight is		ammunition from a belt and presents it to the chamber.
	quick-change barrel and being	Tatriage signi	a rectangular blade with vertical rear		(3) A machine gun or cannon in
	directly derived from a rifle design rather than designed as a machine		face and the rearsight is a plate with a rectangular notch. Named after E E		which a group of barrels rotate, each barrel being loaded and fired at
	gun.	D	Patridge, the inventor,	nr.	specific points in the rotation.
Magazine	Ammunition feed system in which cartridges are held in a detachable or	Pentolite	A denatured form of PETN used as an explosive filling in cannon projectiles.	RF	Rimfire. A small arm cartridge in which the initiating composition is
	integral container. Detachable magazines may be of box or drum	PETN	Pentaeryhtrytoltetranitrate. A high explosive used in cannon projectiles.		packed into the hollow rim of the cartridge case, instead of being held in
	form, and are usually of metal, though	Ph	Hit probability		a central cap. Cheap and effective, but
	plastic is becoming more common. Disposable magazines have yet to find	PIBD	Point Initiating, Base Detonating. A type of fuze used with shaped charge		not generally considered for high pressure ammunition used in military
	military employment.		projectiles and which is located at the		weapons.
Magazine safety	A safety device on pistols which prevents firing once the magazine has		tip of the projectile in order to strike the target first, but which initiates the	Ricochet	Rebound of a bullet from a struck surface. The angle of ricochet and the
	been removed. Prevents accidental discharge of the cartridge left in the	DI.	shaped charge from the rear end. Kill probability		distance to which the bullet may fly are totally unpredictable.
	chamber after removal of the	Pk PM	Pulemyot Kalashnikova	Rifling	Spiral grooves cut into a gun barrel in
Magnum	magazine. Commercial cartridge or weapon with	Primer	Percussion or electrically initiated cap in the base of a cartridge case.		order to impart spin to the projectile so that it becomes gyroscopically
nagnam	greater power and velocity than is	Propellant	Low explosive used to propel a		stabilised and flies point-first.
Match	usual from that particular calibre. Small arms ammunition carefully		projectile from a firearm. Usually a nitro-cellulose compound, though	Rimless	A cartridge case with a deep groove in the rear end, so providing an
					extraction rim of the same diameter as
ammunition	manufactured and graded for very		nitro-glycerine and nitro-guanidine		
ammunition	consistent performance for competition and sniping purposes.	\$	are often found as additives. Made in a wide variety of shapes and sizes	Rimmed	the body. A cartridge case with a prominently
	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight.	*	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as	Rimmed	the body. A cartridge case with a prominently raised rim at its rear end, which
	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the		are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force.	Rimmed	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the
	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand	PSG	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr		the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor.
MCLOS	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance.		are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating	Rimmed ROC Round	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition.
MCLOS MFC	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller	PSG	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and	ROC	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap.
MCLOS	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine	PSG	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to	ROC Round	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot.
MFC MICV	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle.	PSG	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing	ROC Round	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova
MCLOS MFC MICV	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine gun firing rifle-calibre ammunition but capable of sustained long-range fire for long periods. Generally water-	PSG Pump action	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to be opened, a cartridge loaded, the breech closed and the action cocked. Also called slide or trombone action.	ROC Round	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap. propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova Ruchnoi Pulemyot Kalashnikova
MCLOS MFC MICV	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine gun firing rifle-calibre ammunition but capable of sustained long-range fire for long periods. Generally water-cooled; example Vickers, Maxim. Browning M1917.	PSG	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to be opened, a cartridge loaded, the breech closed and the action cocked. Also called slide or trombone action. An explosive store which burns to provide flame, smoke, illumination or	ROC Round	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova Ruchnoi Pulemyot Kalashnikova Semi-Automatic Command to Line
MCLOS MFC MICV MMG	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine gun firing rifle-calibre ammunition but capable of sustained long-range fire for long periods. Generally watercooled; example Vickers, Maxim, Browning M1917. Millitary Operations in Urban Terrain	PSG Pump action	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to be opened, a cartridge loaded, the breech closed and the action cocked. Also called slide or trombone action. An explosive store which burns to	ROC Round RPD RPK	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova Ruchnoi Pulemyot Kalashnikova Semi-Automatic Command to Line Of Sight. Anti-tank missile guidance system in which the firer maintains
MCLOS MFC MICV MMG	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine gun firing rifle-calibre ammunition but capable of sustained long-range fire for long periods. Generally water-cooled; example Vickers, Maxim. Browning M1917. Military Operations in Urban Terrain Maschinen Pistole Mean Point of Impact. The centre	PSG Pump action Pyrotechnic	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to be opened, a cartridge loaded, the breech closed and the action cocked. Also called slide or trombone action. An explosive store which burns to provide flame, smoke, illumination or other effects. Rifleman's Assault Weapon	ROC Round RPD RPK	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova Ruchnoi Pulemyot Kalashnikova Semi-Automatic Command to Line Of Sight. Anti-tank missile guidance system in which the firer maintains his sight on the point of aim and the
MCLOS MFC MICV MMG MOUT MPi	consistent performance for competition and sniping purposes. Manual Command to Line Of Sight. Anti-tank missile guidance system in which the missile is steered to the target by the operator, using hand controls. Also called first generation guidance. Mortar Fire Controller Mechanised Infantry Combat Vehicle. Medium Machine Gun. A machine gun firing rifle-calibre ammunition but capable of sustained long-range fire for long periods. Generally water-cooled; example Vickers, Maxim. Browning M1917. Millitary Operations in Urban Terrain Maschinen Pistole	PSG Pump action	are often found as additives. Made in a wide variety of shapes and sizes designed to control the burning so as to provide the required propulsive force. Präzisions Schutzen Gewehr A mechanism used in rifles and shotguns in which reciprocating movement is given to a grip beneath the barrel. Pulling it back and pushing it forward again causes the breech to be opened, a cartridge loaded, the breech closed and the action cocked. Also called slide or trombone action. An explosive store which burns to provide flame, smoke, illumination or other effects. Rifleman's Assault Weapon Recoilless. A weapon which	ROC Round RPD RPK	the body. A cartridge case with a prominently raised rim at its rear end, which positively locates the case in the chamber and affords purchase for the extractor. Required Operational Characteristics A complete item of ammunition, containing all those components - cap, propellant, case and bullet - required to fire one shot. Ruchnoi Pulemyot Degtyarova Ruchnoi Pulemyot Kalashnikova Semi-Automatic Command to Line Of Sight. Anti-tank missile guidance system in which the firer maintains his sight on the point of aim and the missile is automatically guided into the sightline by sensors and electronic
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GLOSSARY

Selector	A device on a selective fire weapon which allows a choice of single shots or automatic fire. Also called change lever.	SLR SLUFAE SMAW	Self-Loading Rifle Surface-Launched Unit, Fuel-Air Explosive Shoulder-launched Multipurpose		pitch as it nears the muzzle. The degree of twist can be defined: by specifying the distance required for
Self-cocking	A firing mechanism on some	SMAW	Assault Weapon		the groove to make one complete revolution - example, one turn in
ben coening	automatic pistols in which pressure on	SMG	Sub-Machine Gun		250 mm; by specifying the number of
	the trigger first cocks the firing pin or	SSKP	Single Shot Kill Probability		calibres required for the groove to
	striker and then releases it, preventing	STANAG	(NATO) Standardisation Agreement		make one complete revolution -
	the pistol being fired if accidentally	Stgw	Sturmgewehr (Switzerland)		example, one turn in 30 calibres; or
	dropped. Also called double action	Stock	Traditionally the wooden support into		by specifying the angle between the
	only.		which the rifle's mechanism is fitted.		line of the groove and the axis of the
Set trigger	Trigger, or stud or lever, on some		Now more generally that part of the		bore - example, 3.5°.
	target and sniping rifles in addition to		furniture which supports the weapon		Sense of twist - right-hand or left-
	the normal trigger which is operated		against the shoulder.		hand, as seen from the breech, should
	first to cock the weapon and set the	StuG	Sturmgewehr (Germany)		also be specified, though very few
	firing trigger so that very light	Stun grenade	A hand grenade producing a very loud		weapons use a left-hand twist.
ini ma'	pressure on it will fire the weapon.		report and bright flash, intended to	44.0	
SG	(1) Schutzen Gewehr (Germany)		disorient and unnerve terrorists and	Velocity	Measure of the bullet's speed. V ₀ of
er n	(2) Stankovyi Goryunova (CIS)	0.1	rioters without injuring them.		Muzzle Velocity (MV) refers to the
Shell	A hollow projectile, filled with	Sub-machine	A lightweight, one-man weapon		speed as the bullet leaves the gun;
	explosive or other agent, fired by cannon and artillery.	gun	usually firing a pistol cartridge and with limited range and accuracy.		Observed Velocity (OV) to the speed
ShKAS	Shpitalny, Komaritsky, Aviatsionnyi,	SVD	Snayperskaya Vintovka Dragunova		at any particular point in flight; and Remaining Velocity (RV) to the speed
SIIKAS	Skorostrelnyi	310	Shayperskaya vintovka Dragunova		at the end of flight. Modern usage
Shot	Solid projectile fired by cannon or	Thermal	Night vision system relying upon		often specified the precise distance at
Shot	artillery	imaging	the emanation of heat from the target;		which OV is measured, example, V ₁₅ ,
Silencer	A device attached to the muzzle or		previously known as passive infra-		V ₅₀ , in which the figures indicate the
	surrounding the barrel and intended to		red.		distance in metres from the muzzle.
	reduce the noise of discharge.	TNT	Tri-Nitro-Toluene. High explosive	Vertex	The highest point of the bullet's
	Generally a Maxim silencer in which		used as a filling for various munitions.		trajectory.
	a number of internal baffles causes	Toggle lock	A breech locking system for recoil-	Vz.	Vzor - model (Czech)
	emergent gas to swirl round and lose		operated weapons, notably the Maxim		
	velocity before escaping. If gas		and Vickers machine guns and the	WP	White Phosphorus. An incendiary and
	escapes elsewhere with sufficient		Parabellum (Luger) pistol.		smoke producing chemical agent used
	velocity to cause noise, the	TOP	Total Obscuring Power. A measure of		in grenades and mortar bombs.
effecti	effectiveness of the silencer is		the effectiveness of a smoke screen.	Wz	Wzor - model (Polish)
	reduced; thus it is impractical to	TOW	Tube-launched, Optically tracked,	23	
sufficient gas esca cylinder/barrel jun the silencer's effe is rarely attained,	silence revolvers, since there is		Wire-guided. US anti-tank missile	Yaw	The angle between the axis of the
	sufficient gas escaping from the	m	system.		projectile and the trajectory.
	cylinder/barrel junction to override	Tracer	Ammunition carrying a small flare in	7	The discount of sinks on the short
	the silencer's effect. Absolute silence		the base of the bullet to mark out the	Zero	The adjustment of sights so that the bullet will strike the point of aim at
	is rarely attained, so it is now more common to refer to these devices as		trajectory in flight and so permit corrections to be made.		some specific range. From this zero
	sound moderators or suppressors.	Trajectory	The flight path of a projectile from		adjustment, the sight's adjusting
		rajectory	gun to target		mechanism will provide the necessary
SK			South to this Set		
SK SKS	Selbstlader Karabiner (Switzerland) Samozaryadnaya Karabin Simonoya	Twist of rifling	The degree of rotation of the rifling		compensation to the sightline so that
SK SKS SLAP	Samozaryadnaya Karabin Simonova Saboted Light Armor Penetrator	Twist of rifling	The degree of rotation of the rifling grooves in a barrel. Can be constant		compensation to the sightline so that bullet and sightline will coincide at