



Ammunition for Armed Forces and Law Enforcement

**Focus on your mission.  
Rely on our ammunition.**



**Together  
ahead. RUAG**



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# Pistol and Submachine Gun Ammunition

## 9 × 19 Deformation Ammunition

Conventional full metal jacket bullets cannot optimally meet the requirements of today's service ammunition for Law Enforcement. Low energy transfer in the target medium means that they over-penetrate soft targets much too easily and thus endanger close bystanders. The increasing magnitude of violence in urban areas calls for ammunition which is able to stop offenders with effectiveness to ward off the danger and minimize the risk of unwanted consequences.

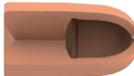
	Weight	Description	Bullet type	Muzzle velocity	Term of reference	Primer	Lead free
<b>ACTION 4 SXF</b>	 6.1 g / 94 gr	Deformation cartridge with good performance on soft and hard targets, as well as glass and tyres	<b>SHP</b>	420 m/s *	TR		
<b>ACTION 5 SXF</b>	 6.1 g / 94 gr	Deformation cartridge with high terminal performance on soft targets	<b>SHP</b>	425 m/s *	TR		
<b>ACTION 6 SXF</b>	 6.1 g / 94 gr	Deformation cartridge tested according CIP standard for soft and hard targets as well as glass and tyres	<b>SHP</b>	400 m/s **	C.I.P.		
<b>HP SXF</b>	 8.0 g / 124 gr	Deformation cartridge with good terminal performance on soft targets	<b>JHP</b>	365 m/s **	C.I.P.		

\* 100 mm barrel / \*\* 150 mm barrel / \*\*\* 200 mm barrel

# Pistol and Submachine Gun Ammunition

## 9 × 19 Training and Service

The full metal jacketed bullets of RUAG Ammotec work reliably in all common pistol types and comply with the specifications of C.I.P. or NATO. They are perfectly suitable for both training and service.

		Weight	Description	Bullet type	Muzzle velocity	Term of reference	Primer	Lead free
FMJ		8.0 g / 124 gr	Training cartridge, specially suitable for outdoor shooting ranges	FMJ	380 m/s **	C.I.P.		
FMJ SX		8.0 g / 124 gr	FMJ cartridge for training and service, especially suitable for indoor shooting ranges	FMJ	370 m/s **	C.I.P.		
FMJ SXF (+P)		8.0 g / 124 gr	Service cartridge with enhanced power and SINOX®-FORENSIS primer	FMJ	350 m/s *	TR		
ACTION Training SX		6.1 g / 94 gr	Completely lead free Cartridge with cooper bullet for the use in indoor shooting ranges	TR	405 m/s *	TR		
NATO FMJ		8.0 g / 124 gr	FMJ cartridge according to NATO requirements	FMJ	395 m/s ***	MCMOPI		
NATO FMJ SX		8.0 g / 124 gr	Pollution-reduced FMJ cartridge according to NATO requirements	FMJ	395 m/s ***	MCMOPI		

\* 100 mm barrel / \*\* 150 mm barrel / \*\*\* 200 mm barrel

## 9 × 19 Special Application

Apart from deformation-type and full metal jacketed bullets, various cartridges are available for special application purposes, e.g. with increased penetration capacity, with visible trajectory or subsonic ammunition.

		Weight	Description	Bullet type	Muzzle velocity	Term of reference	Primer	Lead free
AP SX		7.0 g / 108 gr	Penetrator cartridge with solid bullet for enhanced penetration on light-armoured targets (penetrates 8 sheet steel registers at 15 m)	solid	420 m/s ***	MCMOPI		
Tracer		7.6 g / 118 gr	Tracer cartridge (red)	tracer	420 m/s ***	MCMOPI		
Subsonic FMJ		10.0 g / 154 gr	Subsonic cartridge with FMJ bullet	FMJ	315 m/s ***	MCMOPI		
Frangible SX		6.4 g / 98 gr	Non-toxic cartridge for tactical training with reduced risk of ricochets	frangible	430 m/s ***	MCMOPI		

\* 100 mm barrel / \*\* 150 mm barrel / \*\*\* 200 mm barrel



## Additional Short-Range Ammunition

### Pistol / Revolver

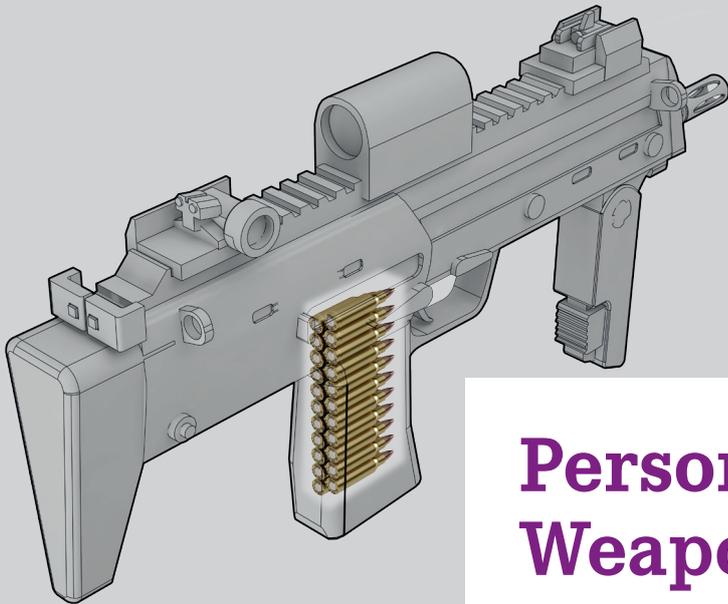
Apart from the globally most widespread calibre 9×19, authorities and Armed Forces use some other calibres as well. Special units, in particular, like to resort to the subsonic calibre .45 ACP or a back-up weapon of calibre .38 Special.

		Weight	Description	Bullet type	Muzzle velocity	Term of reference	Primer
<b>7.65 Para</b>		6.0 g / 92 gr	The 7.65 Para FMJ round is an excellent value for training and Competition Shooting in match grade accuracy.	<b>FMJ</b>	310 m/s *	C.I.P.	
		14.9 g / 230 gr	FMJ cartridge, specially suitable for outdoor shooting ranges	<b>FMJ</b>	260 m/s *	C.I.P.	
<b>.45 ACP</b>		14.9 g / 230 gr	JHP cartridge, with good performance on soft targets	<b>JHP</b>	260 m/s *	C.I.P.	
		10.2 g / 158 gr	FMJFP cartridge, specially suitable for outdoor shooting ranges	<b>FMJFP</b>	370 m/s *	C.I.P.	
<b>.357 Magnum</b>		10.2 g / 158 gr	JHP cartridge, with good performance on soft targets	<b>JHP</b>	370 m/s *	C.I.P.	

\* 150 mm barrel

### 12-Gauge

		Weight	Description	Bullet type	Primer
<b>12/70 Magnum ENTRY I</b>		32.5 g / 502 gr	The ENTRY I is a special round designed to destroy door locks and hinges at close range. There are no ricochets or backsplashes	<b>PZP</b>	
<b>12/70 Magnum ENTRY II</b>		27.0 g / 417 gr	The ENTRY II is qualified for destroy targets up to 30m with the same performance like the ENTRY I	<b>PZPS</b>	



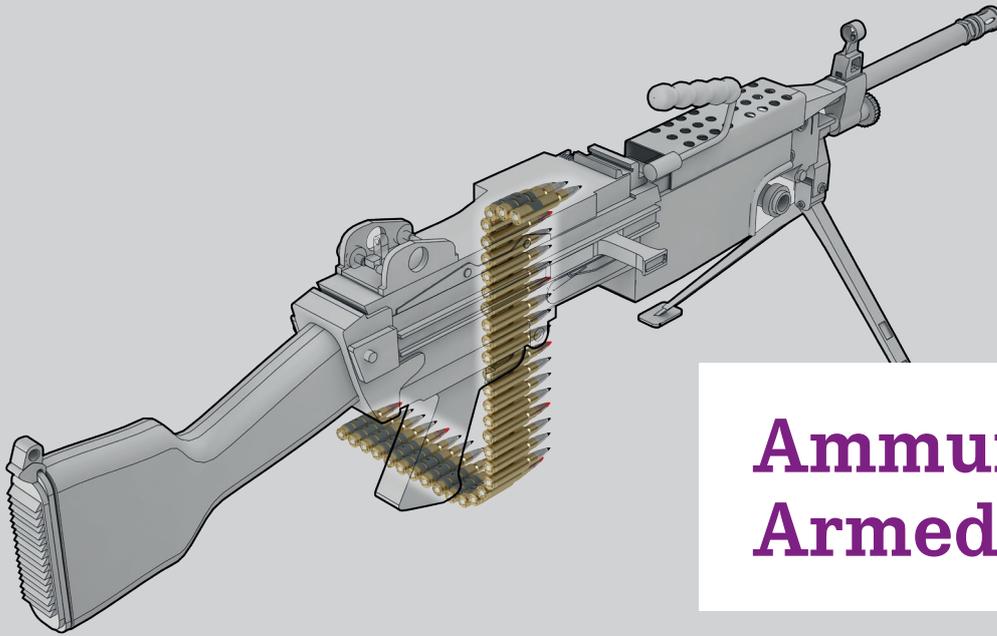
# Personal Defence Weapon Ammunition

## 4.6 × 30

The calibre 4.6 × 30 has been tailored to meet unique requirements of Police and Military Special Forces, combat-support soldiers and close personal protection. The system is light and compact enough to be carried on the body permanently, but also sufficiently accurate and powerful to enable effective action against unprotected and protected targets at an extended distance.

		Weight	Description	Bullet type	Muzzle velocity	Term of reference	Primer	Lead free
<b>FMJ SX</b>		2.6 g / 40 gr	Duty ammunition for Army and Law Enforcement with good energy transfer in soft targets and an exceptionally good precision up to 200 m	<b>FMJ</b>	620 m/s *	C.I.P., DM21		
<b>ACTION SX</b>		2.0 g / 31 gr	The deformation bullet offers fast energy deposit in soft targets and a good penetration capability in hard and combined targets	<b>SHP</b>	690 m/s *	C.I.P., DM41		
<b>AP SX</b>		2.0 g / 31 gr	This lead free cartridge offers an exceptional penetration capability. The bullet penetrates the NATO CRISAT target from distances up to 200 m	<b>solid</b>	680 m/s *	C.I.P., DM31		
<b>Subsonic SX</b>		5.0 g / 77 gr	The bullet is made from Tungsten-Carbide and polymer, is completely lead-free, and has no jacket.	<b>solid</b>	290 m/s *	C.I.P.		
<b>Training SX</b>		1.7 g / 26 gr	The Training SX with lead free semi-jacketed tin bullet is "non-destructive" to steel targets. It can even be used as service ammunition in sensitive areas	<b>JSC</b>	660 m/s *	C.I.P.		
<b>Frangible SJ SX</b>		1.7 g / 26 gr	The Frangible SX is particularly suitable for tactical CQB/MOUT training, as the teams can train safely and effectively with maximum realism.	<b>SJ frangible</b>	700 m/s *	C.I.P.		

\* 180 mm barrel



## Ammunition for Armed Forces

### 5.56 × 45

This ammunition for assault rifles and light machine guns provides an above-average hit accuracy and reliability. Its performance in action has been confirmed by numerous Armed Forces. RUAG's long experience in the production of top-quality Swiss ordnance ammunition plays a fundamental role in the development of all products.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>FMJ (M193)</b>		3.6 g / 55 gr	Proven and widely used infantry round	<b>FMJ</b>	0.347	990 m/s *	MCMOPI	
<b>FMJ SX</b>		3.6 g / 55 gr	FMJ cartridge for training and service, especially suitable for indoor shooting ranges	<b>FMJ</b>	0.347	1010 m/s **	C.I.P.	
<b>FMJ HA</b>		4.1 g / 63 gr	High-quality infantry round with a steel jacket and rear cover	<b>FMJ</b>	0.345	910 m/s *	MCMOPI	
<b>HC (SS109)</b>	 	4.0 g / 62 gr	Steel core infantry round with a superior penetration power	<b>HC</b>	0.310	945 m/s *	MCMOPI	
<b>AP TC</b>		4.1 g / 63 gr	High-performance tungsten carbide core infantry round for maximum penetrating power	<b>AP</b>	0.342	945 m/s *	MCMOPI	
<b>Tracer</b>	 	4.1 g / 63 gr	Tracer (red) with delayed ignition or infrared tracer light	<b>tracer</b>	0.367	905 m/s *	MCMOPI	

\* 508mm barrel / \*\* 600mm barrel

# Ammunition for Armed Forces

## 5.56 × 45 Lead free

In the development of lead free ammunition the challenge is to substitute the lead without reducing the performance or to even increase it if possible. Also decisive for a good, reliable and powerful ammunition without lead are the harmful substances which are emitted on firing and can form deposits in the barrel and weapon system. One prerequisite, therefore, is that the propellant and the ignition charge are also optimally matched to the bullet.

			Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer	Lead free
LF HC SX			4.0 g / 62 gr	Lead free, integrated steel core infantry round with enhanced penetration capacity	HC	0.310	945 m/s *	MCMOPI		
LF HC+ SX			4.0 g / 62 gr	Lead free, integrated steel core infantry round with significant enhanced penetration capacity	HC	0.310	935 m/s *	MCMOPI		
Frangible SJ SX			4.0 g / 62 gr	The semi-jacketed frangible bullet is made from sintered copper, is completely lead-free and fully recyclable.	SJ frangible	0.200	795 m/s *	MCMOPI		
Frangible SX			2.9 g / 45 gr	The bullet is made from copper and polymer by injection moulding. The shooting distance can be reduced without risking being hit by backsplashes or ricochets.	frangible	0.097	990 m/s *	MCMOPI		

\* 508mm barrel

## 7.62 × 51

The NATO calibre 7.62 × 51 is used more frequently again and enables effective operative ranges of more than half a kilometre thanks to the excellent precision and penetration capacity of RUAG's ammunition. The product spectrum includes versatile solutions for machine gun shooters and designated marksmen. Most advanced production processes and quality control down to the last detail guarantee reliability under extreme conditions.

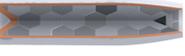
			Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer	Lead free
FMJ (M80)			9.5 g / 146 gr	High-quality infantry round for use in extreme conditions	FMJ	0.465	855 m/s *	MCMOPI		
Tracer (M62)			9.2 g / 141 gr	Tracer (red) with delayed ignition for better concealment	tracer	-	815 m/s *	MCMOPI		
HC			9.6 g / 148 gr	Infantry round with outstanding penetration power on hard targets	HC	0.417	845 m/s *	MCMOPI		

\* 562mm barrel

# Ammunition for Armed Forces

## .300 BLK

By definition the calibre .300 BLK is particularly well suited for subsonic shooting. The optimized propellant chamber provides a constant pressure development which ensures the highest first-shot hit probability. The Final bullet design is based on a revolutionary pellet technology, which breaks apart even at subsonic. The energy is released immediately, thus eliminating any over-penetration with almost no risk of collateral damage.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>HV Ball</b>		9.5 g / 146 gr	Highly accurate full metal jacket round for military training and duty	<b>FMJ</b>	0.421	571 m/s *	C.I.P.	
<b>HV Styx Action</b>		8.4 g / 130 gr	High-performance round for excellent stopping power due to instantaneous energy deposition on soft targets	<b>JHP</b>	0.259	630 m/s *	C.I.P.	
<b>Target</b>		14.3 g / 220 gr	Subsonic round with an excellent first-hit probability and very consistent ballistic values	<b>HPBT</b>	0.417	315 m/s *	C.I.P.	
<b>Final</b>		13.0 g / 200 gr	Highly accurate fragmentation round for silent operations in urban terrain	<b>JPP</b>	0.164	315 m/s *	C.I.P.	

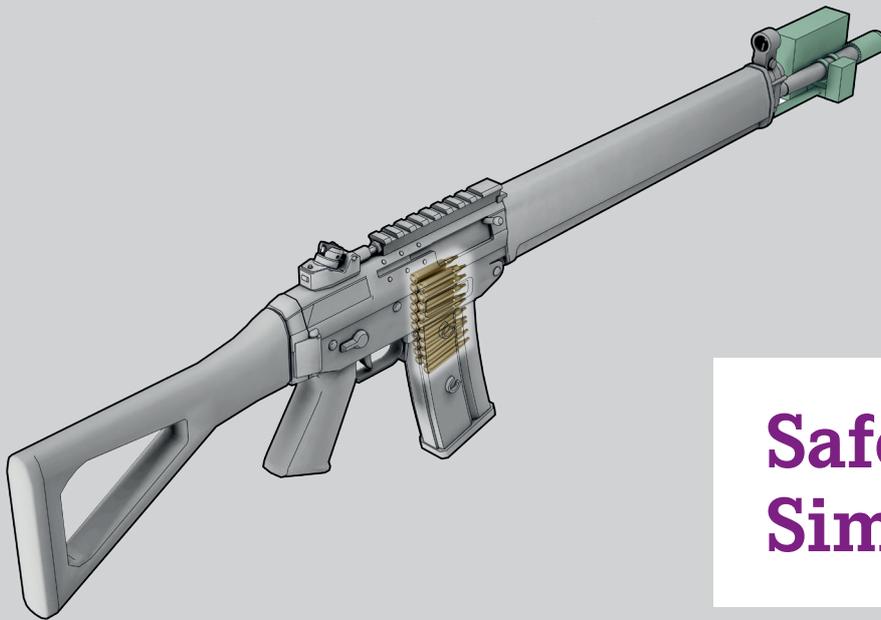
\* 450 mm barrel

## 12.7 × 99 / .50 Browning

The well-proven NATO calibre 12.7×99 for heavy machine guns enables operative ranges which clearly exceed those achieved with conventional rifle calibres. In modern warfare shots at long distances mean a higher safety for the shooter. This, however, calls for special ammunition. RUAG's long distance ammunition is characterized by its outstanding precision, reliability under extreme conditions and a very good penetration capacity on hard targets. Moreover, the entirely lead free cartridges are equipped with low-pollution SINTOX® ignition elements.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer	Lead free
<b>SR Solid SX</b>		45.2 g / 698 gr	HMG training round for a significant reduced danger zone	<b>SRS</b>	0.387	880 m/s*	MCMOPI		
<b>SR Solid Tracer SX</b>		45.8 g / 707 gr	HMG training round for a significant reduced danger zone with red trace	<b>SRS Tracer</b>	-	870 m/s *	MCMOPI		
<b>Training SX</b>		41.7 g / 644 gr	Target-friendly soft core round with good precision and suitable for training purposes	<b>JSC</b>	0.698	905 m/s *	MCMOPI		
<b>HC SX</b>		48.5 g / 748 gr	Hard-core round with excellent penetrating power and precision	<b>JHC</b>	0.779	895 m/s *	MCMOPI		
<b>API SX</b>		44.5g / 687 gr	The hardened steel core provides maximum penetration power while the titanium tip provides incendiary marking	<b>API</b>	0.754	930m/s *	MCMOPI		

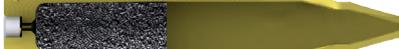
\* 1'143 mm barrel

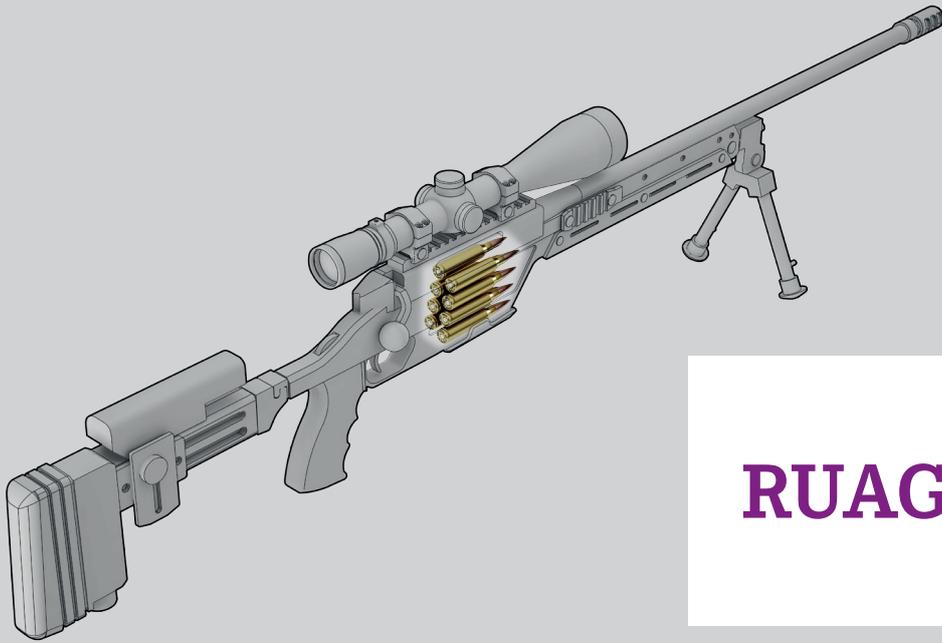


## Safe Combat Simulation

### Blank

In training on the machine gun and assault rifle, numerous Armed Forces have been relying for years on the combat simulation with blank cartridges as an important part of a soldier's basic training. While blank cartridges of plastic convince above all by their low weight, the ones of brass stand up particularly well to strains.

		Description	Primer	Lead free
<b>9 × 19 Plastic Blank SX</b>		Blank cartridge with plastic tip for safe simulation		
<b>4.6 × 30 Blank SX</b>		Brass Blank cartridge for safe simulation		
<b>5.56 × 45 Blank</b>		Brass Blank cartridge for safe simulation		
<b>7.62 × 51 Blank SX</b>		Brass Blank cartridge for safe simulation		
<b>7.62 × 39 Blank</b>		Brass Blank cartridge for safe simulation		
<b>.338 Lapua Mag. Blank</b>		Brass Blank cartridge for safe simulation		



# RUAG SWISS P

## A round for any situation

<b>Ball</b>				the classic FMJ, designed for military use
<b>Target</b>				for match, training or operations
<b>Styx Action</b>				deformation bullet for stopping power on soft targets
<b>Final SR</b>				fragmentation bullet for transfer of maximum Energy
<b>Armour Piercing</b>				for hard targets
<b>Armour Piercing Incendiary</b>				hit, mark and penetrate
<b>Tactical</b>				for targets behind glass/intermittent barriers
<b>Subsonic</b>				for suppressed shooting
<b>Subsonic Final</b>				to avoid over-penetration

## .223 Rem.

Most varied danger situations require very different means. RUAG offers a wide range of special cartridges which stand out by their excellent precision and highest first-hit probability. The different bullets guarantee an outstanding effect on hard and soft targets. The perfectly coordinated ballistics of the RUAG SWISSP cartridges permit the shooter to change between bullet types while maintaining the aiming point.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>Ball</b>		4.1 g / 63 gr	Highly accurate full metal jacket round for military training and duty	<b>FMJ</b>	0.368	910 m/s *	C.I.P.	
<b>Target</b>		4.5 g / 69 gr	Round for very best accuracy in training and competition	<b>HPBT</b>	0.379	855 m/s *	C.I.P.	
		5.0 g / 77 gr	Target round for an enhanced operation distance	<b>HPBT</b>	0.396	820 m/s *	C.I.P.	
<b>Styx Action</b>		4.5 g / 69 gr	High-performance round for excellent stopping power due to instantaneous energy deposition on soft targets	<b>HPBT</b>	0.313	855 m/s * 860 m/s **	C.I.P. MCMOPI	
<b>Final SR</b>		3.4 g / 52 gr	Highly accurate fragmentation bullet for a minimized risk of over-penetration and enhanced safety for bystanders due to total bullet disintegration	<b>JHP</b>	0.182	1040 m/s *	C.I.P.	
<b>Armour Piercing</b>		4.1 g / 63 gr	High-performance round for maximum penetration power on hard targets	<b>AP</b>	0.363	875 m/s ***	Swiss Army	

\* 600 mm barrel / \*\* 508 mm barrel / \*\*\* 500 mm barrel

# RUAG SWISS

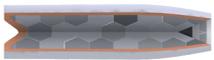
Ammunition for Professionals

### P – Premium

Due to tight production tolerances and quality control constant ballistic values are guaranteed. Batch to batch and lot to lot, RUAG's attention to detail ensures identical premium performance and complete customer satisfaction.

## .308 Win.

The calibre .308 Win. is extremely widespread among authority and military forces. In no other calibre has RUAG Ammotec such a varied product spectrum for snipers, security shooters and designated marksmen. The right tool exists for each highly special intervention. A particularly positive aspect is the interchangeability of different cartridges without need to adjust the optics, but a constant point of impact. This is referred to as coordinated ballistics enabling an enormous flexibility in action.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>Ball</b>		11.4 g / 176 gr	Highly accurate full metal jacket round for military training and duty	<b>FMJ</b>	0.523	790 m/s *	C.I.P.	
<b>Target</b>		10.9 g / 168 gr	Round for very best accuracy in training and competition	<b>HPBT</b>	0.489	805 m/s *	C.I.P.	
		11.3 g / 175 gr	Target round for an enhanced operation distance	<b>HPBT</b>	0.547	790 m/s *	C.I.P.	
<b>Styx Action</b>		10.8 g / 167 gr	High-performance round for excellent stopping power due to instantaneous energy deposition on soft targets	<b>HPBT</b>	0.363	810 m/s *	C.I.P.	
<b>Final SR</b>		8.4 g / 130 gr	Highly accurate fragmentation bullet for a minimized risk of over-penetration and enhanced safety for bystanders due to total bullet disintegration	<b>JHP</b>	0.240	895 m/s *	C.I.P.	
<b>Armour Piercing</b>		12.7 g / 196 gr	High-performance round for maximum penetration power on hard targets	<b>AP</b>	0.652	790 m/s *	C.I.P.	
<b>Tactical</b>		10.6 g / 163 gr	High-performance round for excellent first-hit probability and terminal effect behind angled glass	<b>SFNBT</b>	0.303	820 m/s *	C.I.P.	
<b>Subsonic</b>		13.0 g / 200 gr	Highly accurate round for silent operations in urban terrain	<b>HPBT</b>	0.364	315 m/s **	C.I.P.	
		15.6 g / 240 gr	Highly accurate subsonic round for additional target energy	<b>HPBT</b>	0.465	315 m/s **	C.I.P.	
<b>Subsonic Final</b>		13.0 g / 200 gr	Highly accurate fragmentation round for silent operations in urban terrain	<b>JPP</b>	0.159	310 m/s **	C.I.P.	

\* 650 mm barrel / \*\* 450 mm barrel

# RUAG SWISS

Ammunition for Professionals

### P – Precision

The precision of our cartridges is legendary, and this even under extreme conditions. All cartridges consistently achieve sub MoA accuracy (1 MoA = 1/60 of a degree or angular minute, corresponding to approx. 1 inch at 100 yards).

## .300 Win. Mag.

The calibre .300 Win. Mag. known from big-game hunting is established among Law Enforcement and Armed Forces thanks to its excellent performance. The cartridges impress by the very flat bullet trajectory, an advantage especially in long-range shooting. Within the framework of the SWISS P Line RUAG offers powerful solutions for both training and special interventions.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>Ball</b>		11.4 g / 176 gr	Highly accurate full metal jacket round for military training and duty	<b>FMJ</b>	0.533	865 m/s *	C.I.P.	
<b>Target</b>		13.0 g / 200 gr	Round for very best accuracy in training and competition	<b>HPBT</b>	0.577	870 m/s *	C.I.P.	
		14.3 g / 220 gr	Target round optimized for long-range shooting	<b>HPBT</b>	0.653	845 m/s *	C.I.P.	
<b>Styx Action</b>		12.8 g / 198 gr	High-performance round for excellent stopping power due to instantaneous energy deposition on soft targets	<b>HPBT</b>	0.612	880 m/s *	C.I.P.	
<b>Armour Piercing</b>		12.7 g / 196 gr	High-performance round for maximum penetration power on hard targets	<b>AP</b>	0.607	855 m/s *	C.I.P.	
<b>Tactical</b>		12.1 g / 186 gr	High-performance round for excellent first-hit probability and terminal effect behind angled glass	<b>SFNBT</b>	0.299	870 m/s *	C.I.P.	

\* 650 mm barrel

**RUAG SWISS**   
Ammunition for Professionals

### P – Power

The performance is one of the outstanding characteristics of the RUAG SWISS P line. Even at long ranges our products maintain high velocities for maximum target effect.

## .338 Lapua Mag.

The calibre .338 Lapua Mag. is very popular with long-distance shooters and widely used especially in the military sector. The relatively compact and handy weapon system enables effective operative ranges of more than one and a half kilometres under optimal conditions. The bullet remains stable over a long distance in the supersonic range and brings accordingly much energy precisely into the target. To be able to avert particular danger situations RUAG Ammotec offers various special bullets which are closely matched to each other. Be it for the penetration of light armour, precision shots through glass panels or a minimized danger for the background, the shooters can choose from well thought-out and extensively proven solutions within the framework of the RUAG SWISS P line.

		Weight	Description	Bullet type	BC G1	Muzzle velocity	Term of reference	Primer
<b>Ball</b>		16.3 g / 251 gr	Highly accurate full metal jacket round for military training and duty	<b>FMJ</b>	0.657	855 m/s *	C.I.P.	
<b>Target</b>		16.2 g / 250 gr	Round for very best accuracy in training and competition	<b>HPBT</b>	0.684	865 m/s *	C.I.P.	
		19.4 g / 300 gr	Target round optimized for long-range shooting	<b>HPBT</b>	0.831	835 m/s *	C.I.P.	
<b>Styx Action</b>		16.0 g / 247 gr	High-performance round for excellent stopping power due to instantaneous energy deposition on soft targets	<b>HPBT</b>	0.433	875 m/s *	C.I.P.	
<b>Armour Piercing</b>		16.8 g / 260 gr	High-performance round for maximum penetration power on hard targets	<b>AP</b>	0.677	850 m/s *	C.I.P.	
<b>Armour Piercing Incendiary</b>		16.9 g / 261 gr	The tungsten carbide core provides maximum penetration power, while the titanium tip provides incendiary marking	<b>API</b>	0.679	847 m/s *	C.I.P.	
<b>Tactical</b>		16.2 g / 250 gr	High-performance round for excellent first-hit probability and terminal effect behind angled glass	<b>SFNBT</b>	0.375	860 m/s *	C.I.P.	
<b>Subsonic</b>		16.2 g / 250 gr	Cartridge load very close to the sound barrier, but without risking a supersonic bang	<b>HPBT</b>	0.650	315 m/s *	C.I.P.	
		19.4 g / 300 gr		<b>HPBT</b>	0.739	315 m/s *	C.I.P.	

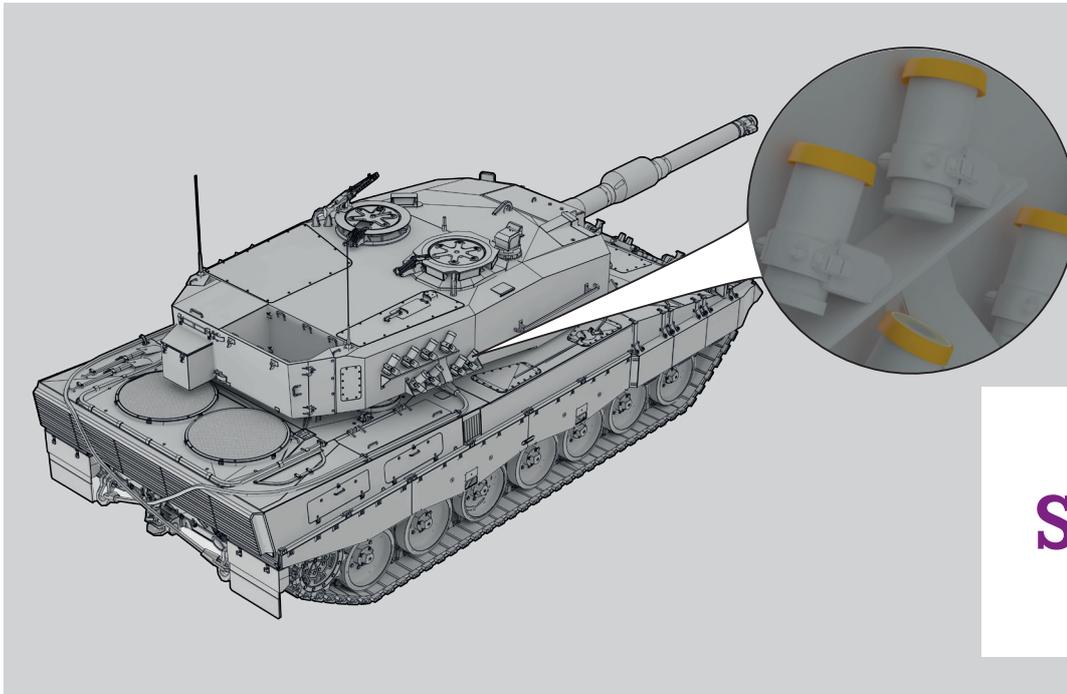
\* 650mm barrel

# RUAG SWISS

Ammunition for Professionals

### Quality made in Switzerland

The professional RUAG SWISS P line convinces by its technological perfection down to the smallest detail. For best accuracy in training and mission highest quality standards in materials and manufacturing processes are required. 160 years of experience, extensive know-how, expertise and modern production facilities allow us to consistently produce rounds of constant, outstanding quality. Our products are used by most of the world's tier one SF and police groups. Quality without compromise is what we believe in.



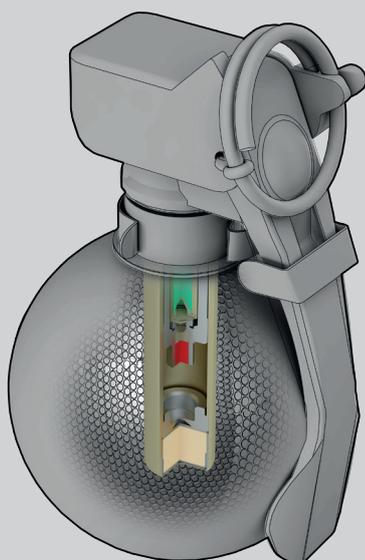
# Smoke

## 76 mm TSG (Training Smoke Grenade)

Vehicles and armoured platforms equipped with an appropriate launcher can be protected effectively by means of the pyrotechnical 76 mm Smoke grenades. The 76 mm TSG enables cost-effective self-protection training for all types of armoured vehicles, from tanks to LAVs.

	Weight	Description	Burst height	Ignition
<b>76 mm TSG</b>	900 g	Provides realistic training with significant cost savings	2–8 m	electronically

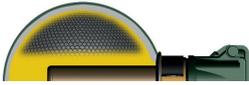
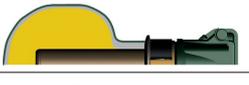
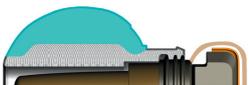




# Hand Grenade

## HG 85 Line

The HG 85 Line convinces the users not only by its outstanding effect, but also by the safety features and the ease of handling. Moreover, different types of practice and offensive grenades supplement the defensive grenades ideally to form a complete product line. The fragmentation hand grenade (HG 85 Fragmentation) is based on the most advanced technology and penetrates present-day protective wear effectively. The hand grenades of RUAG Ammotec have been used by Armed Forces all over the world for many years.

		Weight	Description	Body	Hazard class
<b>HG 85 Fragmentation</b>		470 g	Fragmentation hand grenade with prefragmented steel jacket	steel, prefragmented	1.2D
<b>OHG 85 Offensive</b>		310 g	Offensive hand grenade with aluminium jacket	aluminium-alloy	1.2D
<b>SR OHG 85 Short Range Offensive</b>		195 g	Offensive hand grenade for short operative ranges	aluminium-alloy	1.2D
<b>EOHG 85 Enhanced Offensive</b>		465 g	Offensive hand grenade with a substantially higher portion of explosive	aluminium-alloy	1.1D
<b>THG 85 Training Sound</b>		460 g	Reusable practice hand grenade with reloadable noise element	rubber, steel	Inert (training fuse 1.4S)
<b>Drill 85</b>		400 g	Drill hand grenade	aluminium-alloy	Inert

# Glossary

<b>AP</b>	Armour Piercing	<b>LF</b>	Lead free
<b>BC</b>	Ballistic Coefficient C1 (ICAO)	<b>MCMOPI</b>	Multi-Calibre Manual of Proof and Inspection Procedures
<b>C.I.P.</b>	Commission Internationale Permanente pour l'Epreuve des Armes à Feu Portatives	<b>(+P)</b>	Higher Pressure
<b>DM</b>	Deutsches Modell (in die Bundeswehr eingeführt)	<b>PZP</b>	Pressed Zinc Powder
<b>FMJ</b>	Full Metal Jacket	<b>PZPS</b>	Pressed Zinc Powder Slug
<b>FMJFP</b>	Full Metal Jacket Flat Point	<b>SFNBT</b>	Solid Flat Nose Boat Tail
<b>HA</b>	High Accuracy	<b>SHP</b>	Solid Hollow Point
<b>HC</b>	Hard Core	<b>SJ</b>	Semi Jacket
<b>HP</b>	Hollow Point	<b>SR</b>	Short Range
<b>HPBT</b>	Hollow Point Boat Tail	<b>SRS</b>	Short Range Solid
<b>JHC</b>	Jacketed Hard Core	<b>SX</b>	SINTOX
<b>JHP</b>	Jacketed Hollow Point	<b>SXF</b>	SINTOX-FORENSIS
<b>JPP</b>	Jacketed Pressed Pellets	<b>TC</b>	Tungsten Carbide Core
<b>JSC</b>	Jacketed Soft Core	<b>TR</b>	Technische Richtlinie

# Symbols

<b>Sinoxid</b>		Sinoxid Standard primer
<b>Sintox (SX)</b>		Low-polluting primer
<b>Sintox Forensis (SXF)</b>		Sintox (SXF) Low-polluting primer with marking agent
<b>Lead Free</b>		Lead free projectile and primer
<b>NATO Design Mark</b>		Technical specifications according to NATO standards
<b>NATO Cloverleaf</b>		Symbol of interchangeability in linked configuration
<b>RUAG SWISS P</b>		High-accuracy sniper ammunition

For further information please ask for our Factsheets. Errors and omissions excepted, subject to technical modifications.

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