



Passion for Precision

Centerfire Cartridges



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World famous quality

Lapua's world famous quality comes partly from decades of experience, top-quality raw material and a well-managed manufacturing process. Despite the automation in production and quality assurance, our staff personally inspects every lot and, if necessary, even each individual cartridge.

Certified

Nammo Lapua Oy's quality system conforms with both ISO 9001 and AQAP 2110. We have also been awarded the ISO 14001 environmental system certificate.

Passion for precision

Lapua, or more officially Nammo Lapua Oy, is part of the large Nammo Group. Our main products are small caliber cartridges and components for sport, hunting and professional use.

For decades Lapua has strived to produce the best possible cartridges and components for those who have a passion for precision. The results from various competitions worldwide prove that we are the preferred partner for the champions, everywhere.

This has been achieved by consistent product development and cooperation with top shooters.

The top quality and superior accuracy that are characteristic to all Lapua cartridges are achieved with precise combining of the components. Reliable and timely ignition, optimal muzzle velocity and excellent ballistic properties are the result of well designed and carefully manufactured components. A cartridge can be perfect when all components match together perfectly.



Hall of Fame filled with gold

Since 1930, Lapua cartridges have been used to win more than a hundred gold medals in the Olympics and World Championships, as well as to break numerous world records. Marksmen who trust Lapua's cartridges are also at the top in demanding military shooting disciplines.

Lapua cooperates with competitors in shooting disciplines, both at the cutting edge and at junior level.

Lapua European Cup

Lapua signed a contract with the European Shooting Confederation (ESC) also in 2009 to sponsor the 300m European Cup. Since Lapua is number one in target shooting disciplines it is an honor to support a great discipline, the 300m competition, together with the ESC.

Lapua Team

A close interaction with the world's best shooters ensure the highest quality ammunition. Lapua supports the world's best shooters as members of the Lapua Team. The members are a valuable information channel for product development.

The current Lapua Team

USA

Tony Boyer	Kevin Nevius
Faye Boyer	Mike Miller
Tony Tello	Shawn McKenna
Agustin Sanchez	Kent Reeve
Steve Reiter	John Whidden
Brian Zins	Jack Neary
Kyle Liebetrau	Mallory Nichols
Tyler Rico	Bill Eckinrode
Mark Pharr	Nancy Callagher-Tompkins

EUROPE

Juha Hirvi (FIN) - Team Captain
Charlotte Jakobsen (DEN)
Matthias Raiber (GER)
Peter Sidi (HUN)
Raine Peltokoski (FIN)
Per Sandberg (SWE)
Ole-Kristian Bryhn (NOR)



Lapua Success Highlights 2009 Centerfire

Larry Isenhour (USA)

- New World Record at the Piedmont Gun Club (Rutherfordton, NC) at 600-yard (IBS Light Gun Score), 50-5X .904" group

Tony Boyer (USA)

- IBS National Championships – Match Winner
- Super Shoot Benchrest Championships – Match Winner

Tyler Rico (USA)

- CMP National Championship High Power Rifle – Junior Champion
- CMP National Championships – Presidents 100 – 2nd Place
- Eastern Junior High Power Rifle Champion
- Arizona State Junior High Power Rifle Champion

Peter Sidi (HUN)

- New World Record and 2009 ISSF European Champion in Men 300m 3x40 (NWR 1184-49X)

Charlotte Jakobsen (DEN)

- New World Record and double 2009 ISSF European Champion in Women 300m Prone (NWR 599-43X) and Women 300m 3x20

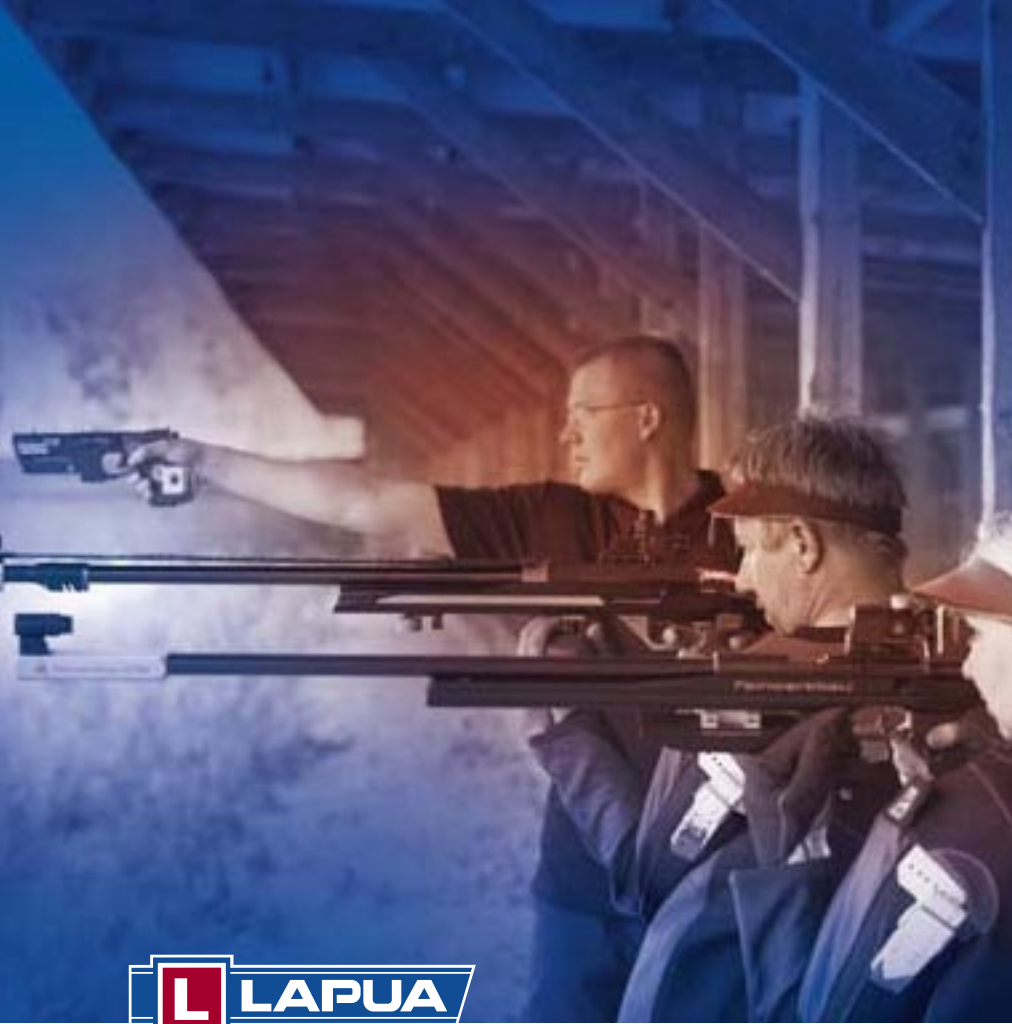
Jussi Puustinen (FIN)

- 2009 CISM World Champion in Men 300m 3x20 Standard Rifle

Raine Peltokoski (FIN)

- 2009 IPSC Rifle European Champion





SPORT SHOOTING

Sport shooters trust only on their experience

For marksmen around the world, the Lapua symbol or name at the cartridge head stamp means one thing: reliability. Decades of experience and interaction with marksmen have led to the development of products with unmatched accuracy and consistent quality.

Handgun cartridges

Lapua's pistol and revolver cartridges are extremely accurate and supremely reliable. Our range includes best-in-class alternatives for all centerfire pistol events organized by CISM and ISSF. It is therefore no wonder that in the CISM centerfire pistol event nine out of ten marksmen choose Lapua's cartridges.

The accuracy of Lapua's handgun cartridges is continuously tested with different types of weapons. Even though the requirements we set for accuracy are extremely strict, our goal is always to go beyond them. Ideally, a single, tight, ragged hole for the entire string. These are also the reasons why the world's leading pistol manufacturers recommend Lapua cartridges.

In CISM World Championships 2009 in Zagreb more than 90 % of the centerfire pistol competitors used Lapua ammunition.

.222 Remington

Factory loaded Lapua .222 Remington cartridge, with the very accurate Lapua S538 3.6g/55gr FMJ bullet, is now available.

And, for the handloader, Lapua offers .222 Remington unprimed match class cartridge cases.

.223 Remington

The Lapua .223 Remington match ammunition has been designed to meet the strict demands of sport shooting. The base, body and neck of the case are perfected to maintain exact tolerances over multiple reloading cycles.

The highest velocity 4.5 g/69gr HPBT Scenar factory loaded ammunition available. The 925m/ps/3030fps muzzle velocity gives extended effective range and excellent accuracy.

6mm BR Norma

World-class accuracy with lighter recoil.

The 6mm BR Norma is the caliber of choice in ISSF and CISM 300m events. Lapua's 6mm BR is the right choice for serious shooters who want a lighter bullet that is less strenuous on the shoulder and yet delivers world-class accuracy. Lapua's 6mm BR ammunition is currently used by world's top competitors. Two bullet versions available; 5.8g/90gr and 6.8g/105gr HPBT Scenar, also in Silver Jacket versions.

6.5x47 Lapua

Extreme accuracy.

The 6.5x47 Lapua is a caliber for serious competition shooting. Lapua developed it together with a Swiss rifle manufacturer Grünig & Elmiger. The chamber dimensions are optimized for target bullets. The 6.5x47 Lapua is CIP approved.

6.5x55SE

Accurate and versatile.

Especially popular in the Scandinavian countries, including long-range field shooting discipline, Lapua's 6.5x55 SE cartridge delivers a straight trajectory and excellent ballistics. Though traditionally most used at longer ranges, our 6.5x55 SE cartridge is today extremely popular in competitions from 100 to 800 meters. 6.5g/100gr, 7.0g/108gr, 8.0g/123gr and 9.0g/139 gr Scenar HPBT available, also with Silver Jacket versions.

.308 Winchester

Popular and precise. Perhaps the most versatile target shooting cartridge, the .308 Winchester is one of the most popular centerfire calibers today. Lapua's .308 Winchester is an excellent choice when you want a cartridge that is sure to perform across a range of disciplines in competition and hunting.

.338 Lapua Magnum

The world's most accurate at extra-long distances. We are proud to say that the .338 Lapua Magnum is simply the world's best long-range precision cartridge – the original one from Lapua. It outperforms all .30 caliber cartridges at longer ranges, delivering exceptional performance up to 1500 m. The .338 Lapua Magnum comes factory loaded with a choice of world leading precision bullets. The .338 HPBT Scenar is ideal for the long-range sports shooter.

.32 S&W Long WC

Lapua's .32 S&W Long Wadcutter cartridges are renowned for their high-class accuracy and functionality in every respect. In fact, Lapua cartridges have achieved ultimate favor among CISM and ISSF competitors, with 90% of them choosing the Lapua .32 S&W cartridge for optimal on-target performance. The Lapua .32 S&W comes with a choice of two bullets: The 6.35g/98gr bullet for competition shooting and the lighter 5.35g/83gr bullet for military rapid fire and shooters who require a lower recoil.

9mm Luger

The 9mm Luger cartridges are available with conventional round nosed FMJ-type bullets weighing 7.5g/116gr, 7.8g/120gr and 8.0g/123gr. The CEPP (Controlled Effect Police Projectile) is a special non-ricochet projectile for both target practice and police use. This bullet is trusted by law enforcement professionals around the world. The CEPP is engineered to provide maximum penetration and controlled expansion without risk of ricocheting. CEPP Extra has a pre-cut bullet nose to initiate early expansion; lead core is not visible at the bullet nose. It provides rapid expansion and excellent weight retention.

USERS' COMMENTS

The first ever practical shooting (IPSC) European Rifle Championship was held in Norway 2009. All the top European and American shooters were present.

The Open division winner of the match was Lapua Shooting Team member Raine Peltokoski. Lapua .223Rem 69gr HPBT SCENAR factory ammunition was Raine's choice for the windy and mountainous Norwegian terrain. 69gr Scenar makes a fast load with a good ballistic coefficient. That makes the bullet trajectory straight and insensitive for the wind.

Hitting small steel plates at 250 meters with a strong side wind or having the steel plates at 160 meters and paper targets at 270 meters at the same stage requires good external ballistics and accuracy. That is what Lapua Scenar is offering.

Raine Peltokoski

*Lapua Team
IPSC European Rifle Champion 2009*





RELOADING CASES

The most precise cases on the market

Lapua cases are the best in the world. The marksmen themselves think this way. The .220 Russian, for example, is the number one choice of the best benchrest shooters all over the world. All our cases are strong and uniformly precise. Lapua cases are manufactured to be reloaded, again and again, dozens of times.



NEW! .22-250 Remington

Lapua sets the industry standard in Match quality cases, and our new .22-250 brass follows in this proud tradition. We are pleased to introduce this classic case to our product line. From varminting to long range target shooting, the .22-250 still remains one of the most potent and versatile of the .22 caliber cartridges.

Unmatched concentricity, toughness, uniformity in every aspect gives you the peace of mind that you're shooting the very best!



NEW! .308 Winchester Palma

Lapua is proud to introduce the new .308 Win. Palma case. Developed in conjunction with the US Palma team, the small rifle primer case is designed to deliver enhanced long-range accuracy for the most demanding competitive applications.



.220 Russian

Most popular case for benchrest shooting. More than 90 % of all the benchrest shooters in the world use Lapua's .220 Russian cases as a parent case for 6mm PPC.

Lapua's .220 Russian cases are manufactured to strict dimensional standards using raw materials of the highest quality to ensure that they can be reloaded scores of times – up to 200 times not being unusual.



.222 Remington

Lapua offers new improved design case for friends of this accurate caliber. The .222 case is a true match case produced with extremely tight tolerances in neck concentricity and wall thickness like its big brother .223 Rem. Lapua Match case. The true Lapua match quality is now available also for the small game hunters.



.223 Remington

The match case is produced with very tight tolerances including neck concentricity, base straightness and wall thickness. Consistent quality guarantees consistent results. The large case volume ensures high velocity potential. Strong case construction, optimized strength and grain structure material allow multiple reloading cycles.



6mm BR Norma

Without exaggerating, Lapua's 6mm BR case is absolutely the best case in its class. The standard that all other cases are compared to.



.243 Winchester

The legendary caliber for today's small game hunting. This case has all the world famous qualities of Lapua's unrivaled .308 Winchester case.



6.5 Grendel

The 6.5 Grendel is tailored to fit the AR-15 action and it outperforms the .223 Rem. and other cartridges used in the AR-15. The caliber is continuously growing its popularity in the disciplines which demand light recoil and tack-driving accuracy.



6.5x47 Lapua

The 6.5x47 Lapua case has base diameter and loading length similar to the .308 Win., allowing it to accept the same bolt heads and fit into similar actions and magazines. Lapua's 6.5x47 case is also the parent case of several popular wildcats, and is frequently necked down to 6mm. This modification allows the versatile 6.5x47 case to fulfill an even greater range of hunting, varminting or target applications, aided by Lapua's wide ranging selection of Scenar bullets. The 6.5x47 Lapua is truly a masterpiece!



6.5x55 Swedish

"Old soldiers will never die". Lapua's 6.5x55 SE is a proof of that – it has long been popular all over Scandinavia, and now its characteristics and performance have been noted by shooters and hunters all over the world.



6.5-284

The favourite of long range shooters and a good choice for all game for which .264 bullets are considered suitable. World renowned Lapua brass is available in the 6.5-284. Lapua brass is of match quality that can be loaded more times than any brass from competitors.



.308 Winchester

One of Lapua's flagship cases. Our .308 Winchester case has made Lapua quality world renowned. It continues to be the standard by which all others are judged.



.30-06 Springfield

The venerable .30-06 case offers an even greater powder capacity than the .308, but the Lapua quality remains the same. Like its smaller stable mate, the .30-06 has the same durable construction and incredible precision, allowing for many, many reloadings.



7.62x53R

7.62x53R cartridge is extremely accurate – largely contributed to the strict tolerances of the case. When a high quality rifle is used, Lapua's 7.62x53R case gives you the top result needed to win long-range shooting disciplines.



7.62x39

Lapua's 7.62x39 offers match quality that no other manufacturer has for this caliber. When it comes to competition, Lapua's 7.62x39 is way ahead of all the military quality cases.



.338 Lapua Magnum

Lapua's development, the original .338 Lapua Magnum is the legendary caliber for long range target shooting. The professionals' first choice, the .338 Lapua Magnum is indisputably the standard that all others are compared to.



9.3x62

True stopping power for big and dangerous game. A life-long partner for hunters worldwide.



.32 S&W Long WC

High class accuracy and functionality. Lapua .32 S&W Long Wadcutters cartridges and cases have achieved ultimate favour among CISM and ISSF competitors, with 80% of them choosing the Lapua .32 S&W cartridge for optimal on-target performance.



9mm Luger

When the reloading capability counts, Lapua's 9mm Luger case is the obvious choice.



RELOADING BULLETS

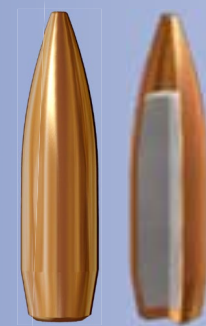
Almost handmade bullets

The D46, which we developed way back in the 1930s, is still one of the best industrial full metal jacket bullets. While development has focused on Lock Base and Hollow Point bullets that withstand high pressures, Lapua's accuracy has just kept improving.

Our target shooting bullet Scenar represents the very high end of its class: it has achieved the 600/600 world record of the international sport shooting federation (ISSF). Consistent quality that starts with the raw materials makes this possible. Lapua bullets are practically handmade.

The finishing touch of the carefully controlled process is the primer and powder, which are perfectly compatible with the case and the bullet. Working together with the leading powder and primer manufacturers, we carefully choose the powder and a dependable primer that best fits each cartridge type. Reliability and accuracy are continuously tested in test shootings.

The development continues all the time in steady steps, drawing from experience and with a keen ear for the reloaders' needs. For marksmen, this development means exceedingly good cartridges and components. And for us it means more and more stories about gold medals and records.



Scenar

The first choice for serious target competition. Lapua Scenar hollow point boat tail bullets have given superb results at long ranges and bench rest shooting. The Scenar bullets have the IBS World Record in 600 yard Heavy Gun 5-shot group (0.404") and also hold the official world ISSF record of 600 out of 600 possible, an unbeatable score. All Scenar bullets are also available in Coated Silver Jacket version.



FMJ

Whether you are looking ammunition or bullets for training, competitions or serious hunting situations you can really trust the performance of Lapua's FMJ bullet family. Ten rounds loaded with Lapua's .30 S374 8.0/123gr FMJ bullet from 100m can easily achieve groupings less than 30mm. Reliability means that every shot you fire will hit the target.



Cutting Edge

When you are looking for the best bullet for the target shooting through paper targets your choice is .30 G477 6.5g/100gr HP Cutting Edge. A hollow point bullet incredibly accurate and it cuts a clean and easily distinguishable hole in your target. This bullet typically achieves groupings of under 25mm in 100m shooting distance. An excellent choice also for varmint hunting.



Lock Base

A distinctive Full Metal Jacket Boat Tail bullet that has many applications from sport shooting to battlefield. Streamlined ballistic shape combined with patented base design.



D46

Often copied, never equaled. The legendary D46 is one by which all others of its type are measured. Manufactured to the strictest tolerances for concentricity, uniformity of shape and weight, it has shot its way to the record books since the 1930's all the way to the 21st century.



Naturalis

A great performing 99% copper bullet retains up to 100% of its weight. The valve at the tip of bullet opens immediately on impact, leading the bullet to expand symmetrically and without shattering. This high tech bullet design gives a maximal shock effect and it works perfectly within terminal velocities of 500 m/s - 1000 m/s. The Naturalis is extremely effective by giving a clean shot and minimizes meat loss. Unique Lapua technology.



Mega

The Lapua Mega is for hunting big game. This bullet is at its best in the field and typically more than duplicates on impact, causing an immediate shock effect in your quarry. The Mega is a soft point bullet with a protective copper jacket – traditional hunting performance. This ensures that the bullet's lead alloy core remains intact when shooting through brush or branch. The mechanical bonding locks the lead alloy in place, allowing the bullet to achieve up to 97% weight retention. Mega product family covers the most popular calibres in Scandinavia including 9 products.



HUNTING

A clean shot

Lapua hunting cartridges are loaded with Naturalis and Mega bullets, which have been carefully designed and dimensioned for their purpose.

Lapua hunting bullets retain their weight extremely well: the copper bullet Naturalis retains up to 100% of its weight. The valve at the tip of the bullet opens immediately on impact, leading the bullet to expand symmetrically and without shattering. This gives maximal shock effect. Naturalis is a good example of Lapua's way of rethinking its products – from the hunter's perspective. Lapua responded to the hunters' needs by developing the best copper bullet in the world.

The Lapua Mega is for hunting big game. The Mega is at its best in the field and typically more than duplicates on impact, causing an immediate shock effect.

Hunting target shooting

Lapua's product range has the right cartridge for all different kinds of hunting and sports, whether you are only aiming for fitness and good marksmanship skills or have your sights set on some serious hunting: moose, deer, wild boar etc.

USERS' COMMENTS

Naturalis is ready – but is there a bear or a moose?

Mäntyturikko means a very brushy forest here in Northern Lapland, but I can still picture myself there with my 9.3x62 Valmet Petra carbine.

My hunting partner, a reindeer farmer from Nellim, feels that my position is not ideal because of the heavy brush. I still think the spot is good, based on my prior experiences in similar brush in the southern part of Finland. From the number of tracks, there have obviously been a great many moose in the area.

Nonetheless, I move a short distance, and within 20 meters I spot bear tracks. Noticing that the front paw print is about 15cm wide, I guess the bear is a young boar. We've agreed to hunt a young cow moose, but the bear tracks are somewhat confounding those plans. The magazine and chamber of my Petra 9.3x62 is loaded with 14.3g/220gr Naturalis, so I'm ready for whichever game we encounter.

When the sound of an outboard motor on Siiskeljarvi winds down, I hear our moose dog, Nella, barking in the distance. She's somewhere over towards the Russian border zone, but headed in our direction. Nella stops her barking; the game is moving. Within ten minutes, Nella sounds off again, much closer now. I flip open the scope covers, and start scanning the woods. I guess they are in Paloniemi of Mitri, but suddenly, the barking stops once more.

I think there must be at least one moose, maybe more that Nella is driving before her. They have two routes to go; directly to me, or towards Kiertusjärvi and the appa fenn over there. Both ways are manned by hunters, waiting to welcome them!

Nella sounds off once again, somewhere on the waterfront, and then continues to bark continuously. I stop and consider for a moment that if the animal that Nella is driving is the bear whose tracks I saw earlier, he might be headed directly towards me. Her barking continues to draw nearer, and I scan the woods intently. I try to sense the heavy pounding of a moose coming towards my ridge, to hear the breaking of the brush. There you go! A cow moose breaks fast running down the ridge. She stops as suddenly as if she'd just run into a wall on the exact spot where I found the bear tracks earlier. Which is it that spooked her, the bear's scent, or my own? In between the pines, I see the moose's shoulder less than 35 yards away and shoulder my rifle immediately. I fire from my kneeling position and the animal drops as if thunderstruck when the Naturalis slams into her. One or two kicks of her hooves, and it's done.

Within a few minutes, my local hunting partners have come to help dress the moose and parcel out the pieces in the local tradition. Once all the meat is loaded into our boat, there is still time for coffee brewed over a campfire.

With the sun now setting behind the trees, Nella sits in the bow of our boat like a captain as we cross the lake and head for home.

Adam Mykkänen

.222 Rem

Factory loaded Lapua .222 Rem. cartridge, with the very accurate Lapua S538 3.6g/55gr FMJ bullet, is now available. And, for the handloader, Lapua offers .222 Rem. unprimed match class cartridge cases. Whether you are looking ammunition for training, competitions or serious hunting situations, you have to know that ammunition is reliable. Reliability means that every shot you fire will hit that target.

.243 Winchester

Your hunting trips should leave you with fond and unforgettable memories. With Lapua .243 Win. you can be sure there is something to fill your backpack after a morning of successful Black Grouse hunting - those opportunities will yield treasured life long memories.

6.5x55 Swedish

With Lapua 6.5x55 SE, whether it is used in hunting or competition, you will give no quarter to the game or your fellow competitors. A great universal choice for the all type of Scandinavian hunting possibilities with the straight trajectory, excellent ballistics and a huge bullet selection – for anything from grouse to moose.

.308 Winchester

One of Lapua's flagships – the legendary .308 Win for all type of hunting. The ammunition must to do its job – Lapua does, no matter what the game. The most of big game hunters in Scandinavia can not be wrong – they have selected Lapua rounds loaded with the unbeatable Mega bullet. Lapua's .308 Win. is an excellent choice when you want a cartridge that is sure to perform in all kind of conditions. The uncompromising craftsmanship ensures a match class quality for the all hunters throughout the world.

.30-06 Springfield

The over 100 years old caliber still shows its reliability and performance for all others. The .30-06 has a large powder capacity so high muzzle velocities can be achieved when the big game situations demand heavier bullets like Lapua's .30 E401 13.0g/200gr. Mega. The Lapua headstamp on a case head means one thing to hunters: Reliability at all times!

9.3x62

A real big game hunting caliber which is increasing its popularity year by year in big and dangerous game hunting situations. With 9.3x62 loaded with Naturalis copper bullet you do not have to worry the shock effect or the meat loss – the bullet will expand symmetrically and without shattering. When the name of the game is big and dangerous – your choice is Lapua's powerful 9.3x62.

Birds, boars and bears

The Naturalis cartridges have rapidly gained a faithful following among hunters of different kinds of game. They are extremely effective yet minimize meat loss. Naturalis has been used to hunt a variety of game on all continents and weather conditions.

The cartridges work without fail in humid, dry and hot as well as very cold climates – even after a long period in storage. This adds to their safety as well.





The Original
.338 Lapua Magnum



SPECIAL PURPOSES

Not just according to toughest standards

Lapua quality is appropriately certified as well as approved by several special forces and armies worldwide. Long-term cooperation with different defence organizations helps us understand the special requirements of the military and other professional users. The goal is not to meet requirements but to exceed them.

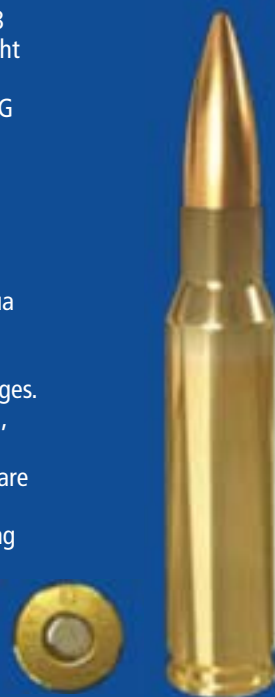
The most accurate long-range cartridges available

The reliability and excellent accuracy of Lapua's professional use cartridges are renowned worldwide. The secret behind the fame is simple: the professional use cartridges are manufactured with the same unconditional precision and care as our leading sport shooting products. Our much-copied paragon of quality and accuracy

is the .338 Lapua Magnum, which has an effective range up to 1500 meters. Despite this, the .338 caliber rifles are about the same size and weight as the 7.62 mm rifles. The .338 caliber weapon system is considerably lighter than the .50 BMG system.

Complete selection of ammunition

Lapua offers a complete selection of .338 Lapua Magnum ammunition including Ball, Armour Piercing, Armour Piercing Incendiary, HPBT (Hollow Point Boat Tail), Blank and Drill cartridges. The trajectory of all bullets is tailored to match, so there is no need to change the sight setup when changing a bullet type. Some cartridges are hermetic and packed in M2A1, optional for all products. Excellent performance with all leading manufacturers' weapons.



A complete selection of different bullets available also in .308 Win. caliber.



Scenar

Premium performance for competition shooters. The Scenar is an extremely accurate open-tip match bullet with an outstanding ballistic coefficient in each bullet caliber. Lapua Scenar bullets have given superb results at long ranges.



Lock Base

Unbeatable accuracy over extra long distances. The bullet's proprietary tail structure provides exceptional accuracy also at high pressures and high muzzle velocities. FMJBT configuration reduces drag and provides a flatter trajectory.



AP

AP is the world's most accurate armour piercing ammunition that has been made by using proven match grade bullet technology, and providing excellent penetration against hard targets. Up to 13 mm at 550 meters while fired on armour steel plate.



API

Designed to be used against vehicles and structures in situations when excellent penetration, incendiary and point of impact effect is needed. The API bullet is designed to meet current insensitive munitions philosophy.



D46

Often copied, never equaled. The legendary D46 in caliber 7.62 is one by which all others of its type are measured. Manufactured to the strictest tolerances for concentricity, uniformity of shape and weight, it has shot its way to the record books since the 1930's all the way to the 21st century.



Subsonic

Lapua is the most widely used 7.62 mm caliber subsonic ammunition for military and law enforcement special operations. Designed especially for specialized short barrelled tactical rifles that have sound suppressors.



RIFLE CARTRIDGES | METRIC

● Sport ● Hunting ● Special purposes

Caliber	Product no.	Bullet type Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)								Trajectory [mm]							Test barrel length [mm]
			0	100	200	300	600	800	1000	Rifle sighted in at	Impact point above or below line of sight (Scope 40 mm above bore line)							
											100	200	300	600	800	1000		
.222 Rem. (5.7x43)	4315020 	FMJ 3,6 g / 55 gr S538	880 1394 0	760 1038 34	649 758 147	549 542 358				100 300 600	-0 192	-171 213	-575 -0				600	
.223 Rem. (5.56x45)	4315040 	FMJ 3,6 g / 55 gr S538	955 1625 0	828 1221 30	712 903 131	605 653 317				100 300 600	-0 134	-103 164	-401 -0				660	
	4315510 	Scenar 4,5 g / 69 gr GB501	925 1925 0	830 1551 23	740 1232 99	656 968 237	435 426 1161			100 300 600	-0 128 482	-102 153 861	-383 -0 1062	-2891 -2124 -0			660	
.243 Win. (6.16x51)	4316052 	FMJ 5,8 g / 90 gr B503	885 2271 0	805 1881 21	730 1546 88	659 1260 209	472 646 984			100 300 600	-0 162 513	-151 173 875	-485 -0 1053	-3077 -2106 -0			610	
	N316201 	Naturalis 5,8 g / 90 gr N509	910 2414 0	776 1756 35	655 1250 154				100 300 600	-0	-124						610	
	4316056 	SP 6,5 g / 100 gr E497	910 2691 0	821 2190 22	737 1766 94	659 1410 223				100 300 600	-0 130	-105 155	-391 -0				610	
6 mm BR Norma	4316045 	Scenar 5,8 g / 90 gr GB493	900 2349 0	828 1988 18	759 1670 76	693 1392 180	511 758 838			100 300 600	-0 125 434	-103 148 765	-375 -0 926	-2602 -1852 -0			670	
	C316045 Silver Jacket 	Scenar 5,8 g / 90 gr GB493	930 2508 0	857 2128 17	786 1793 72	719 1499 171	534 828 792			100 300 600	-0 115 400	-93 137 708	-345 -0 857	-2403 -1713 -0			670	
	4316046 	Scenar 6,8 g / 105 gr GB478	850 2457 0	786 2100 18	724 1783 75	665 1504 177	508 876 809	420 599 1574	346 2697	100 300 600	-0 141 474	-118 164 830	-423 -0 1000	-2846 -1999 -0	-6279 -5150 -2484	-11962 -10551 -7218	670	
	C316046 Silver Jacket 	Scenar 6,8 g / 105 gr GB478	850 2457 0	786 2100 18	724 1783 75	665 1504 177	508 876 809	420 599 1574	346 2697	100 300 600	-0 141 474	-118 164 830	-423 -0 1000	-2846 -1999 -0	-6279 -5150 -2484	-11962 -10551 -7218	670	
6.5x47 Lapua	4316015 	Scenar 6,5 g / 100 gr GB504	850 2348 0	779 1972 20	710 1639 85	645 1352 201	470 718 945			100 300 600	-0 146 504	-121 170 886	-437 -0 1074	-3023 -2149 -0			660	
	4316014 	Scenar 7,0 g / 108 gr GB464	900 2835 0	833 2426 17	767 2059 71	703 1732 167	532 989 773	431 650 1529		100 300 600	-0 123 420	-101 145 740	-368 -0 893	-2523 -1786 -2254	-5618 -4636 -0		660	
	4316011 	Scenar 8,0 g / 123 gr GB489	850 2890 0	792 2510 16	736 2164 67	681 1856 158	532 1133 716	444 787 1394	362 526 2409	100 300 600	-0 137 453	-116 159 791	-412 -0 948	-2720 -1896 -2292	-5919 -4819 -6603	-11138 -9763 -6603	660	
	4316012 	Scenar 9,0 g / 139 gr GB458	820 3026 0	769 2662 15	719 2328 63	671 2029 146	539 1308 653	459 950 1257	386 670 2143	100 300 600	-0 146 470	-125 168 815	-439 -0 971	-2822 -1943 -0	-6031 -4859 -2268	-11115 -9650 -6411	660	
6.5x55 SE	4316033 	FMJ 6,5 g / 100 gr S341	830 2239 0	713 1654 37	606 1195 161	510 845 394				100 300 600	-0 219	-194 244	-656 -0				600	
	4316035 	Scenar 6,5 g / 100 gr GB504	800 2080 0	730 1733 22	664 1433 94	601 1176 223	433 610 1047			100 300 600	-0 170 584	-144 196 1024	-509 -0 1242	-3504 -2485 -0			740	
	4316031 	Scenar 7,0 g / 108 gr GB464	900 2835 0	833 2426 17	767 2059 71	703 1732 167	532 989 773	431 650 1529	341 407 2690	100 300 600	-0 123 420	-101 145 740	-368 -0 893	-2523 -1786 -2254	-5618 -4636 -0	-10865 -9637 -6659	740	
	C316031 Silver Jacket 	Scenar 7,0 g / 108 gr GB464	920 2962 0	852 2541 16	786 2162 68	722 1047 161	547 693 744	445 436 1470	353 436 2582	100 300 600	-0 116 398	-95 137 702	-348 -0 847	-2390 -1694 -2131	-5318 -4391 -6278	-10262 -9103 -6278	740	
	4316032 	Scenar 8,0 g / 123 gr GB489	830 2756 0	773 2387 17	717 2054 70	663 1066 164	516 1066 745	429 736 1452	350 489 2515	100 300 600	-0 146 480	-124 168 836	-438 -0 1002	-2880 -2004 -0	-6271 -5103 -2431	-11822 -10361 -7020	740	
	C316032 Silver Jacket 	Scenar 8,0 g / 123 gr GB489	890 3168 0	831 2763 15	774 2395 62	718 2060 145	564 1273 661	473 894 1285	389 605 2215	100 300 600	-0 122 406	-101 143 710	-366 -0 851	-2434 -1702 -0	-5290 -4314 -2045	-9923 -8702 -5865	740	
	4316036 	Scenar 8,0 g / 123 gr GB489	920 3386 0	860 2961 14	802 2575 59	745 2223 137	588 1384 624	495 979 1212	409 670 2086	100 300 600	-0 112 374	-92 132 657	-336 -0 787	-2245 -1574 -0	-4877 -3982 -1884	-9129 -8010 -5387	740	
	C316036 Silver Jacket 	Scenar 8,0 g / 123 gr GB489	830 2756 0	773 2387 17	717 2054 70	663 1066 164	516 1066 745	429 736 1452	350 489 2515	100 300 600	-0 146 480	-124 168 836	-438 -0 1002	-2880 -2004 -0	-6271 -5103 -2431	-11822 -10361 -7020	740	
	4316030 	Scenar 9,0 g / 139 gr GB458	800 2880 0	749 2527 16	700 2207 65	653 1921 152	523 1231 680	445 890 1311	372 623 2238	100 300 600	-0 156 498	-134 178 863	-467 -0 1028	-2991 -2056 -0	-6395 -5149 -2407	-11802 -10244 -6817	740	
	C316030 Silver Jacket 	Scenar 9,0 g / 139 gr GB458	835 3138 0	784 2765 15	734 2422 61	685 2113 142	551 1368 633	471 997 1219	396 706 2076	100 300 600	-0 140 450	-119 161 782	-420 -0 932	-2703 -1864 -0	-5776 -4656 -2172	-10634 -9235 -6128	740	
	N316101 	Naturalis 9,1 g / 140 gr N507	800 2912 0	712 2309 29	630 1807 124					100 300 600	-0	-193						600
	4316021 	Mega 10,1 g / 155 gr E471	780 3072 0	704 2505 26	633 2022 110	566 1616 261				100 300 600	-0 213	-198 229	-640 -0					740
7.62x39	4317235 	FMJ 8,0 g / 123 gr S405	715 2045 0	610 1487 45	511 1045 199	422 712 496				100 300 600	-0 277	-226 328	-831 -0				420	

Caliber	Product no.	Bullet type Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)							Trajectory [mm]							Test barrel length [mm]
			0	100	200	300	600	800	1000	Rifle sighted in at	Impact point above or below line of sight (Scope 40 mm above bore line)						
											100	200	300	600	800	1000	
.308 Win. (7.62x51)	4317527 	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 600	-0 153 600	-121 185 600	-460 -0 600				660
	4317498 	Mega 9,7 g / 150 gr E469	850 3511 0	759 2803 27	675 2211 112	595 1722 269				100 300 600	-0 159 600	-130 187 600	-476 -0 600				660
	4317538 	Lock Base 9,72 g / 150 gr B466	850 3511 0	781 2961 20	713 2473 83	647 2037 196	461 1033 951	346 581 1982		100 300 600	-0 145 502	-121 169 884	-434 -0 1073	-3013 -2146 -0	-6946 -5790 -2928		660
	4317073 	Scenar 10,0 g / 155 gr GB491	860 3698 0	794 3151 18	730 2663 76	669 2235 180	503 1264 831	408 833 1640	331 548 2857	100 300 600	-0 138 469	-115 161 822	-414 -0 992	-2813 -1984 -0	-6265 -5160 -2515	-12106 -10726 -7418	660
	4317598 	Armour Piercing 10,7 g / 165 gr AP492	870 4163 0	800 3519 19	731 2941 80	665 2432 189	486 793 898	380 793 1811		100 300 600	-0 136 473	-113 160 833	-409 -0 1009	-2837 -2019 -0	-6444 -5353 -2661		740
	4317515 	Scenar 10,85 g / 167 gr GB422	820 3648 0	754 3083 20	690 2579 85	628 2138 200	459 946 1899	364 717 1899		100 300 600	-0 157 535	-132 181 938	-470 -0 1135	-3212 -2271 -0	-7258 -6003 -2975		660
	C317515 Silver Jacket 	Scenar 10,85 g / 167 gr GB422	840 3828 0	773 3245 19	708 2723 81	646 2263 192	475 1223 905	377 771 1815		100 300 600	-0 147 504	-124 171 885	-442 -0 1070	-3025 -2140 -0	-6823 -5644 -2790		660
	4317596 HPS 	Lock Base 11,0 g / 170 gr B476	860 4068 0	799 3509 17	738 2996 70	678 2532 166	510 1433 783	406 908 1580	318 557 2852	100 300 600	-0 135 456	-113 158 800	-406 -0 963	-2739 -1927 -0	-6097 -5014 -2445	-11889 -10534 -7322	760
	N317201 	Naturalis 11,0 g / 170 gr N518	800 3520 0	709 2767 30	624 2141 129	546 1641 310				100 300 600	-0 188	-155 220	-563 -0				660
	4317523 	Scenar 12,0 g / 185 gr GB432	755 3420 0	697 2911 21	640 2454 88	585 2052 207	438 1152 963	356 761 1898		100 300 600	-0 188 622	-162 214 1083	-563 -0 1304	-3735 -2609 -0	-8288 -6787 -3308		660
	C317523 Silver Jacket 	Scenar 12,0 g / 185 gr GB432	795 3792 0	736 3246 19	677 2754 80	621 2315 189	469 1317 879	382 876 1735		100 300 600	-0 165 549	-141 189 958	-495 -0 1153	-3296 -2306 -0	-7297 -5977 -2902		660
	4317189 	Mega 12,0 g / 185 gr E415	765 3508 0	677 2747 32	595 2122 137	519 1617 329				100 300 600	-0 209	-174 243	-627 -0				660
	4317590 	FMJBT 12,0 g / 185 gr D46	760 3466 0	704 2974 20	650 2533 82	597 2141 193	452 1228 895	369 815 1772		100 300 600	-0 182 598	-157 207 1039	-547 -0 1247	-3588 -2495 -0	-7908 -6450 -3123		660
	4317340 Subsonic 	FMJBT 13,0 g / 200 gr B416	320 666 0	305 605 29	292 555 113	281 512 250				100 300 600	-0 1056	-1011 1101	-3169 -0				410
.30-06 Spring.	4317577 	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 600	-0 153 600	-121 185 600	-460 -0 600				600
	N317202 	Naturalis 11,0 g / 170 gr N518	830 3789 0	738 2998 28	651 2330 121	571 1791 291				100 300 600	-0 171 600	-140 201 600	-512 -0 600				600
	4317563 	Mega 12,0 g / 185 gr E415	800 3837 0	710 3019 30	625 2344 128	547 1795 307				100 300 600	-0 187 600	-155 219 600	-561 -0 600				600
	4317567 	Mega 13,0 g / 200 gr E401	775 3892 0	693 3108 29	615 2453 123	543 1913 294				100 300 600	-0 196 600	-165 228 600	-589 -0 600				600
7.62x53R/54R	4317503 	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 600	-0 153 600	-121 185 600	-460 -0 600				610
	4317502 	Mega 12,0 g / 185 gr E415	765 3508 0	677 2747 32	595 2122 137	519 1617 329				100 300 600	-0 209 600	-174 243 600	-627 -0 600				610
.338 Lapua Mag. (8.6x70)	N318020 	Naturalis 15,0 g / 231 gr N508	920 6348 0	835 5233 21	753 4251 88	674 3410 211	473 1678 1014	375 1054 2024		100 300 600	-0 125 455	-100 149 809	-374 -0 991	-2729 -1982 -0	-6375 -5378 -2736		680
	4318017 	Scenar 16,2 g / 250 gr GB488	905 6634 0	856 5937 12	808 5294 48	762 4703 112	631 3225 495	551 2457 944	477 1840 1589	100 300 600	-0 112 361	-93 131 628	-336 -0 746	-2164 -1493 -0	-4570 -3674 -1684	-8274 -7155 -4667	680
	4318033 	Lock Base 16,2 g / 250 gr B408	900 6561 0	850 5846 12	800 5179 51	751 4563 119	611 3023 535	525 2230 1035	444 1600 1768	100 300 600	-0 114 372	-95 134 648	-343 -0 772	-2231 -1544 -0	-4753 -3838 -1779	-8711 -7567 -4993	680
	4318035 	Armour Piercing 16,1 g / 248 gr AP485	905 6593 0	848 5794 14	794 5069 57	741 4417 133	595 2851 593	509 2084 1138	431 1496 1928	100 300 600	-0 115 380	-96 135 665	-346 -0 794	-2282 -1589 -0	-4901 -3977 -1859	-9046 -7891 -5243	680
	4318048 	Armour Piercing Incendiary 16,4 g / 253 gr API526	895 6568 0	840 5782 14	786 5068 57	735 4425 133	592 2876 589	508 2113 1130	431 1527 1911	100 300 600	-0 118 388	-98 138 677	-355 -0 808	-2325 -1615 -0	-4982 -4035 -1881	-9171 -7987 -5295	680
	4318013 	Scenar 19,4 g / 300 gr GB528	830 6696 0	789 6054 12	750 5465 47	712 4925 109	605 3558 469	539 2827 880	478 2223 1457	100 300 600	-0 136 421	-117 155 725	-407 -0 855	-2524 -1710 -0	-5231 -4146 -1865	-9289 -7932 -5082	680
9.3x62	N319203 	Naturalis 14,3 g / 220 gr N522	800 4576 0	716 3665 28	636 2888 118	561 2251 284	383 1048 1364			100 300 600	-0 182 666	-151 213 1180	-546 -0 1451	-3995 -2903 -0			600
	4319010 	Mega 18,5 g / 285 gr E433	690 4404 0	612 3461 35	539 2688 149	473 2069 357	332 1019 1663			100 300 600	-0 261 942	-223 300 1661	-783 -0 2042	-5650 -4083 -0			600

RIFLE CARTRIDGES | IMPERIAL

● Sport ● Hunting ● Special purposes

Caliber	Product no.	Bullet type Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 13 fps)								Trajectory [Inch]							Test barrel length [mm]
			0 yd.	100 yd.	200 yd.	300 yd.	600 yd.	800 yd.	1000 yd.	Rifle sighted in at	Impact point above or below line of sight (Scope 1.6 in above bore line)							
											100 yd.	200 yd.	300 yd.	600 yd.	800 yd.	1000 yd.		
.222 Rem. (5.7x43)	4315020 	FMJ 3,6 g / 55 gr S538	2885 1016 0	2522 777 1	2188 584 5	1880 431 11				100 300 600	-0 5 6	-4 6 -0	-15 -0				24	
.223 Rem. (5.56x45)	4315040 	FMJ 3,6 g / 55 gr S538	3130 1196 0	2747 922 1	2395 701 4	2070 523 10				100 300 600	-0 4 5	-3 5 -12	-12 -0				26	
	4315510 	Scenar 4,5 g / 69 gr GB501	3030 1415 0	2745 1162 1	2473 943 3	2217 758 8	1538 365 37			100 300 600	-0 4 15	-3 5 26	-12 -0 32	-88 -65 -0			26	
.243 Win. (6.16x51)	4316052 	FMJ 5,8 g / 90 gr B503	2905 1686 0	2665 1419 1	2438 1187 3	2222 986 7	1644 540 31			100 300 600	-0 4 15	-3 5 26	-12 -0 32	-88 -64 -0			24	
	N316201 	Naturalis 5,8 g / 90 gr N509	2985 1780 0	2582 1332 1	2213 978 5				100 300 600	-0	-4						24	
	4316056 	SP 6,5 g / 100 gr E497	2985 1780 0	2717 1475 1	2464 1213 3	2225 989 7				100 300 600	-0 4 15	-3 5 26	-12 -0 32				24	
6 mm BR Norma	4316045 	Scenar 5,8 g / 90 gr GB493	2950 1729 0	2733 1485 1	2525 1267 2	2325 1074 6	1772 624 27			100 300 600	-0 4 13	-3 5 24	-12 -0 29	-81 -58 -0			26	
	C316045 Silver Jacket 	Scenar 5,8 g / 90 gr GB493	3050 1849 0	2830 1591 1	2617 1361 2	2414 1158 5	1851 681 25			100 300 600	-0 4 12	-3 4 22	-11 -0 27	-74 -53 -0			26	
	4316046 	Scenar 6,8 g / 105 gr GB478	2790 1813 0	2598 1572 1	2411 1355 2	2232 1161 6	1748 712 26	1472 505 50	1232 354 84	100 300 600	-0 4 15	-4 5 26	-13 -0 31	-88 -62 -0	-193 -158 -75	-362 -319 -215	26	
	C316046 Silver Jacket 	Scenar 6,8 g / 105 gr GB478	2790 1813 0	2598 1572 1	2411 1355 2	2232 1161 6	1748 712 26	1472 505 50	1232 354 84	100 300 600	-0 4 15	-4 5 26	-13 -0 31	-88 -62 -0	-193 -158 -75	-362 -319 -215	26	
6.5x47 Lapua	4316015 	Scenar 6,5 g / 100 gr GB504	2790 1733 0	2577 1478 1	2369 1250 3	2171 1049 6	1634 595 30			100 300 600	-0 4 16	-4 5 27	-13 -0 33	-93 -66 -0			26	
	4316014 	Scenar 7,0 g / 108 gr GB464	2950 2087 0	2748 1811 1	2550 1560 2	2358 1333 5	1832 805 25	1521 555 48		100 300 600	-0 4 13	-3 5 23	-11 -0 28	-78 -56 -0	-173 -142 -68		26	
	4316011 	Scenar 8,0 g / 123 gr GB489	2790 2134 0	2616 1876 1	2446 1640 2	2281 1426 5	1826 914 23	1553 661 44	1301 464 75	100 300 600	-0 4 14	-3 5 25	-13 -0 30	-85 -59 -0	-183 -149 -70	-339 -297 -198	26	
	4316012 	Scenar 9,0 g / 139 gr GB458	2690 2231 0	2537 1985 0	2387 1757 2	2242 1550 5	1839 1043 21	1594 784 40	1366 576 67	100 300 600	-0 5 15	-4 5 26	-14 -0 31	-88 -61 -0	-188 -151 -70	-342 -297 -195	26	
6.5x55 SE	4316033 	FMJ 6,5 g / 100 gr S341	2725 1649 0	2374 1251 1	2049 932 5	1752 682 13				100 300 600	-0 6 7	-5 7 -0	-17 -0				24	
	4316035 	Scenar 6,5 g / 100 gr GB504	2620 1529 0	2411 1294 1	2211 1088 3	2021 909 7	1506 505 33			100 300 600	-0 5 18	-4 6 32	-16 -0 39	-109 -77 -0			29	
	4316031 	Scenar 7,0 g / 108 gr GB464	2950 2087 0	2748 1811 1	2550 1560 2	2358 1333 5	1832 805 25	1521 555 48	1238 367 83	100 300 600	-0 4 13	-3 5 23	-11 -0 28	-78 -56 -0	-173 -142 -68	-328 -290 -197	29	
	C316031 Silver Jacket 	Scenar 7,0 g / 108 gr GB464	3015 2180 0	2811 1895 1	2612 1636 2	2418 1402 5	1884 851 24	1568 590 46	1280 393 80	100 300 600	-0 4 12	-3 4 22	-11 -0 26	-74 -53 -0	-163 -135 -65	-310 -274 -186	29	
	4316032 	Scenar 8,0 g / 123 gr GB489	2720 2028 0	2548 1779 1	2379 1551 2	2217 1347 5	1769 858 24	1501 617 46	1253 430 79	100 300 600	-0 5 15	-4 5 26	-14 -0 31	-90 -63 -0	-194 -158 -74	-361 -316 -211	29	
	C316032 Silver Jacket 	Scenar 8,0 g / 123 gr GB489	2920 2337 0	2743 2063 0	2571 1811 2	2401 1580 5	1932 1023 21	1650 746 41	1391 530 69	100 300 600	-0 4 13	-3 4 22	-11 -0 27	-76 -53 -0	-164 -134 -62	-303 -265 -176	29	
	4316036 	Scenar 8,0 g / 123 gr GB489	3015 2492 0	2836 2204 0	2661 1941 2	2490 1699 4	2010 1108 20	1722 813 38	1457 582 65	100 300 600	-0 3 12	-3 4 21	-10 -0 25	-70 -49 -0	-151 -124 -58	-280 -245 -163	29	
	C316036 Silver Jacket 	Scenar 8,0 g / 123 gr GB489	2720 2028 0	2548 1779 1	2379 1551 2	2217 1347 5	1769 858 24	1501 617 46	1253 430 79	100 300 600	-0 5 15	-4 5 26	-14 -0 31	-90 -63 -0	-194 -158 -74	-361 -316 -211	29	
	4316030 	Scenar 9,0 g / 139 gr GB458	2620 2117 0	2468 1878 1	2320 1660 2	2178 1463 5	1782 979 22	1541 732 42	1317 535 70	100 300 600	-0 5 16	-4 6 27	-15 -0 32	-94 -65 -0	-200 -161 -74	-365 -316 -208	29	
	C316030 Silver Jacket 	Scenar 9,0 g / 139 gr GB458	2740 2315 0	2586 2062 0	2435 1828 2	2289 1615 5	1881 1091 20	1633 822 39	1402 606 65	100 300 600	-0 4 14	-4 5 25	-13 -0 29	-85 -59 -0	-180 -145 -67	-327 -284 -186	29	
	N316101 	Naturalis 9,1 g / 140 gr N507	2625 2141 0	2361 1733 1	2113 1387 4					100 300 600	-0 6 7	-5 7					24	
	4316021 	Mega 10,1 g / 155 gr E471	2560 2254 0	2332 1871 1	2116 1540 4	1912 1257 8				100 300 600	-0 6 7	-5 7 -0	-17 -0				29	
7.62x39	4317235 	FMJ 8,0 g / 123 gr S405	2345 1507 0	2031 1131 1	1735 825 6	1463 586 16				100 300 600	-0 8 10	-7 10 -0	-25 -0				16,5	

Caliber	Product no.	Bullet type Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 13 fps)								Trajectory [Inch]							Test barrel length [mm]
			0 yd.	100 yd.	200 yd.	300 yd.	600 yd.	800 yd.	1000 yd.	Rifle sighted in at	Impact point above or below line of sight (Scope 1.6 in above bore line)							
											100 yd.	200 yd.	300 yd.	600 yd.	800 yd.	1000 yd.		
.308 Win. (7.62x51)	4317527 	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268 1410 4	1955 1048 10					100 300 600	-0 5 19	-4 6 35	-14 -0 44				26
	4317498 	Mega 9,7 g / 150 gr E469	2790 2592 0	2517 2110 1	2261 1702 4	2019 1357 9					100 300 600	-0 5 6	-4 6 -15 -0				26	
	4317538 	Lock Base 9,72 g / 150 gr B466	2790 2592 0	2581 2219 1	2379 1884 3	2180 1583 6	1615 868 30	1260 529 61			100 300 600	-0 4 15	-4 5 27	-13 -0 33	-93 -66 -86	-210 -174 -86		26
	4317073 	Scenar 10,0 g / 155 gr GB491	2820 2725 0	2621 2354 1	2428 2020 2	2243 1723 6	1735 1031 26	1439 710 52	1182 478 89		100 300 600	-0 4 15	-3 5 26	-13 -0 31	-87 -62 -76	-192 -158 -80	-365 -323 -220	26
	4317598 	Armour Piercing 10,7 g / 165 gr AP492	2850 2975 0	2640 2552 1	2433 2168 3	2233 1826 6	1684 1038 29	1358 675 57	1076 424 101		100 300 600	-0 4 15	-3 5 26	-13 -0 31	-88 -63 -80	-197 -163 -80	-383 -340 -236	29
	4317515 	Scenar 10,85 g / 167 gr GB422	2690 2690 0	2491 2307 1	2297 1962 3	2110 1656 6	1595 945 30	1295 623 59			100 300 600	-0 5 17	-4 6 29	-15 -0 35	-99 -70 -89	-221 -183 -89		26
	C317515 Silver Jacket 	Scenar 10,85 g / 167 gr GB422	2755 2821 0	2555 2427 1	2359 2069 3	2170 1751 6	1647 1008 29	1341 668 57			100 300 600	-0 5 16	-4 5 28	-14 -0 33	-94 -66 -83	-208 -172 -83		26
	4317596 HPS 	Lock Base 11,0 g / 170 gr B476	2820 2997 0	2636 2619 1	2454 2269 2	2274 1949 5	1764 1173 25	1447 789 49	1148 497 87		100 300 600	-0 4 14	-3 5 25	-13 -0 30	-85 -60 -0	-187 -154 -74	-357 -315 -215	30
	N317201 	Naturalis 11,0 g / 170 gr N518	2625 2597 0	2352 2085 1	2094 1652 4	1855 1297 10					100 300 600	-0 6 7	-5 7 -0	-17 -0				26
	4317523 	Scenar 12,0 g / 185 gr GB432	2475 2518 0	2299 2174 1	2128 1861 3	1962 1583 7	1512 940 31	1254 647 60			100 300 600	-0 6 19	-5 7 34	-18 -0 41	-116 -81 -0	-255 -208 -100		26
	C317523 Silver Jacket 	Scenar 12,0 g / 185 gr GB432	2605 2790 0	2426 2421 1	2252 2085 3	2082 1781 6	1614 1071 28	1343 742 55			100 300 600	-0 5 17	-4 6 30	-15 -0 36	-103 -72 -88	-225 -184 -88		26
	4317189 	Mega 12,0 g / 185 gr E415	2510 2588 0	2245 2071 1	1996 1637 4	1765 1280 11					100 300 600	-0 6 7	-5 8 -0	-19 -0				26
	4317590 	FMJBT 12,0 g / 185 gr D46	2490 2549 0	2322 2216 1	2159 1916 3	2000 1645 6	1558 998 28	1296 690 56			100 300 600	-0 6 19	-3 7 33	-17 -0 39	-112 -78 -0	-244 -199 -95		26
	4317340 Subsonic 	FMJBT 13,0 g / 200 gr B416	1050 491 0	1005 450 1	966 416 4	930 386 8					100 300 600	-0 34	-33 36	-103 -0				16
.30-06 Spring.	4317577 	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268 1410 4	1955 1048 10					100 300 600	-0 5 6	-4 6 -0	-14 -0				24
	N317202 	Naturalis 11,0 g / 170 gr N518	2725 2798 0	2449 2261 1	2185 1799 4	1939 1417 9					100 300 600	-0 5 6	-4 6 -0	-16 -0				24
	4317563 	Mega 12,0 g / 185 gr E415	2625 2831 0	2353 2275 1	2098 1808 4	1859 1420 10					100 300 600	-0 6 7	-5 7 -0	-17 -0				24
	4317567 	Mega 13,0 g / 200 gr E401	2545 2876 0	2297 2342 1	2063 1889 4	1843 1508 9					100 300 600	-0 6 7	-5 7 -0	-18 -0				24
7.62x53R/54R	4317503 	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268 1410 4	1955 1048 10					100 300 600	-0 5 6	-4 6 -0	-14 -0				24
	4317502 	Mega 12,0 g / 185 gr E415	2510 2588 0	2245 2071 1	1996 1637 4	1765 1280 11					100 300 600	-0 6 7	-5 8 -0	-19 -0				24
.338 Lapua Mag. (8.6x70)	N318020 	Naturalis 15,0 g / 231 gr N508	3018 4681 0	2764 3925 1	2515 3251 3	2276 2663 7	1651 1401 32	1328 906 64			100 300 600	-0 4 14	-3 5 25	-11 -0 30	-83 -61 -0	-192 -162 -81		27
	4318017 	Scenar 16,2 g / 250 gr GB488	2970 4896 0	2823 4424 0	2680 3985 2	2539 3579 4	2141 2545 16	1896 1994 30	1666 1540 50		100 300 600	-0 3 11	-3 4 20	-10 -0 24	-68 -47 -0	-143 -115 -52	-256 -222 -143	27
	4318033 	Lock Base 16,2 g / 250 gr B408	2953 4840 0	2802 4356 0	2652 3902 2	2504 3479 4	2080 2081 17	1816 1831 33	1568 1365 55		100 300 600	-0 4 12	-3 4 20	-11 -0 24	-70 -49 -0	-148 -120 -55	-268 -233 -152	27
	4318035 	Armour Piercing 16,1 g / 248 gr AP485	2970 4866 0	2800 4324 0	2635 3829 2	2475 3379 4	2030 2274 19	1764 1716 36	1520 1275 61		100 300 600	-0 4 12	-3 4 21	-11 -0 25	-71 -50 -0	-152 -124 -57	-278 -243 -159	27
	4318048 	Armour Piercing Incendiary 16,4 g / 253 gr API526	2935 4840 0	2769 4308 0	2608 3821 2	2452 3377 4	2017 2287 19	1756 1733 36	1518 1295 60		100 300 600	-0 4 12	-3 4 21	-11 -0 25	-73 -51 -0	-155 -126 -58	-283 -246 -161	27
	4318013 	Scenar 19,4 g / 300 gr GB528	2723 4938 0	2600 4504 0	2482 4102 2	2367 3731 4	2042 2778 15	1842 2259 28	1653 1819 46		100 300 600	-0 4 13	-4 5 23	-13 -0 27	-80 -54 -0	-165 -131 -58	-291 -249 -158	27
9.3x62	N319203 	Naturalis 14,3 g / 220 gr N522	2624 3373 0	2371 2755 1	2128 2219 4	1901 1770 9	1338 877 43			100 300 600	-0 6 20	-5 7 36	-17 -0 44	-122 -89 -0				24
	4319010 	Mega 18,5 g / 285 gr E433	2265 3246 0	2029 2606 1	1809 2071 5	1606 1632 11	1144 828 53			100 300 600	-0 8 29	-7 9 51	-24 -0 62	-173 -124 -0				24

RIFLE BULLETS AND CASES

BRASS CASES			BULLETS							
Caliber	Product No.	Designation	Product No.	Application (diameter mm/inch)	Bullet name	Product code	Type	Weight		Ballistic coeffi- cient
								g	grs	
5.69 mm (.224)	4 PH 5013	.220 Russian	4 PL 5002	.222 Rem (5.69 mm / .224)	Soft Point	E369	SP	3.60	55	0.208
	4 PH 5002	.222 Rem.	4 PL 5004	.223 Rem (5.69 mm / .224)	Soft Point	E372	SP	3.60	55	0.202
	4 PH 5003	.223 Rem.	4 PL/HL 5005	.223 Rem (5.69 mm / .224)	FMJ	S538	FMJ	3.60	55	0.251
	4 PH 5001	.22-250 Rem.	4 PL/HL 5010	.223 Rem (5.69 mm / .224)	Scenar	GB501	HPBT	4.50	69	0.321
			C PL/HL 5010	.223 Rem (5.69 mm / .224)	Scenar Silver Jacket	GB501	CHPBT	4.50	69	0.321
6 mm (.243)			4 PL/HL 5012	.223 Rem (5.69 mm / .224)	Scenar	GB527	HPBT	5.00	77	0.402
	4 PH 6009	.243 Win.	N PL 6201	.243 Win (6.16 mm / .243)	Naturalis	N509	CEX	5.80	90	0.230
	4 PH 6046	6 mm BR Norma	4 PL/HL 6046	6 mm (6.18 mm / .243)	Hollow Point	G490	HP	5.00	77	0.340
			C PL/HL 6046	6 mm (6.18 mm / .243)	HP Silver Jacket	G490	HP	5.00	77	0.340
			4 PL/HL 6047	6 mm (6.18 mm / .243)	Scenar	GB493	HPBT	5.80	90	0.420
			C PL/HL 6047	6 mm (6.18 mm / .243)	Scenar Silver Jacket	GB493	CHPBT	5.80	90	0.420
			4 PL/HL 6045	6 mm (6.18 mm / .243)	Scenar	GB478	HPBT	6.80	105	0.530
6.5 mm (.264)			C PL/HL 6045	6 mm (6.18 mm / .243)	Scenar Silver Jacket	GB478	CHPBT	6.80	105	0.530
	4 PH 6012	6.5 x 55 SE	4 PL/HL 6014	6.5 mm (6.71 mm / .264)	FMJ	S341	FMJ	6.50	100	0.250
	4 PH 6030	6.5 - 284	4 PL/HL 6015	6.5 mm (6.71 mm / .264)	FMJ Cutting Edge	S496	FMJCE	6.50	100	0.250
	4 PH 6010	6.5 x 47 Lapua	4 PL/HL 6033	6.5 mm (6.71 mm / .264)	Scenar	GB504	HPBT	6.50	100	0.444
	4 PH 6020	6.5 Grendel	C PL/HL 6033	6.5 mm (6.71 mm / .264)	Scenar Silver Jacket	GB504	CHPBT	6.50	100	0.444
			4 PL/HL 6020	6.5 mm (6.71 mm / .264)	Scenar	GB464	HPBT	7.00	108	0.478
			C PL/HL 6020	6.5 mm (6.71 mm / .264)	Scenar Silver Jacket	GB464	CHPBT	7.00	108	0.478
			4 PL/HL 6032	6.5 mm (6.71 mm / .264)	Scenar	GB489	HPBT	8.00	123	0.547
			C PL/HL 6032	6.5 mm (6.71 mm / .264)	Scenar Silver Jacket	GB489	CHPBT	8.00	123	0.547
			4 PL/HL 6018	6.5 mm (6.71 mm / .264)	Scenar	GB458	HPBT	9.00	139	0.615
			C PL/HL 6018	6.5 mm (6.71 mm / .264)	Scenar Silver Jacket	GB458	CHPBT	9.00	139	0.615
			4 PL/HL 6000	6.5 mm (6.71 mm / .264)	FMJ Boat Tail	B343	FMJBT	9.30	144	0.636
			4 PL 6010	6.5 mm (6.71 mm / .264)	Mega	E471	SP	10.10	155	0.377
			N PL 6101	6.5 mm (6.71 mm / .264)	Naturalis	N507	CEX	9.10	140	0.329
	7 mm (.284)			N PL 7028	7.00 mm (7.21 mm / .284	Naturalis	N510	CEX	10.40	160
7.62 mm (.308)	4 PH 7217	.308 Win.	4 PL/HL 7224	7.62 mm (7.83 mm / .308)	HP Cutting Edge	G477	HPCE	6.50	100	0.170
	4 PH 7068	.30-06 Spring.	4 PL/HL 7003	7.62 mm (7.83 mm / .308)	FMJ	S374	FMJ	8.00	123	0.280
	4 PH 7215	7.62 x 53R/54R	4 PL/HL 7073	7.62 mm (7.83 mm / .308)	Scenar	GB491	HPBT	10.00	155	0.508
	4 PH 7226	.308 Win. Palma	C PL/HL 7073	7.62 mm (7.83 mm / .308)	Scenar Silver Jacket	GB491	CHPBT	10.00	155	0.508
			4 PL/HL 7069	7.62 mm (7.83 mm / .308)	Scenar	GB422	HPBT	10.85	167	0.470
			C PL/HL 7069	7.62 mm (7.83 mm / .308)	Scenar Silver Jacket	GB422	CHPBT	10.85	167	0.470
			4 PL/HL 7071	7.62 mm (7.83 mm / .308)	Scenar	GB432	HPBT	12.00	185	0.521
			C PL/HL 7071	7.62 mm (7.83 mm / .308)	Scenar Silver Jacket	GB432	CHPBT	12.00	185	0.521
			4 PL/HL 7091	7.62 mm (7.83 mm / .308)	Lock Base	B466	FMJBT	9.72	150	0.488
			4 PL/HL 7086	7.62 mm (7.83 mm / .308)	Lock Base	B476	FMJBT	11.00	170	0.525
			4 PL/HL 7019	7.62 mm (7.83 mm / .308)	D46	D46	FMJBT	12.00	185	0.547
			4 PL 7060	7.62 mm (7.83 mm / .308)	Subsonic	B416	FMJBT	13.00	200	0.382
			4 PL 7057	7.62 mm (7.83 mm / .308)	Mega	E469	SP	9.72	150	0.330
			4 PL 7213	7.62 mm (7.83 mm / .308)	Mega	E415	SP	12.00	185	0.319
			4 PL 7047	7.62 mm (7.83 mm / .308)	Mega	E401	SP	13.00	200	0.344
			N PL 7102	7.62 mm (7.83 mm / .308)	Naturalis	N518	CEX	11.00	170	0.314
7.62 mm (.311)	4 PH 7074	7.62 x 39	4 PL/HL 7005	7.62 mm (7.87 mm / .310)	D166	D166	FMJBT	13.00	200	0.483
			4 PL/HL 7045	7.62 mm (7.91 mm / .311)	FMJ	S405	FMJ	8.00	123	0.280
8 mm (.323)			NPL 8008	8,00 mm (8.20 mm / .323)	Naturalis	N516	CEX	11.7	180	0.275
8.61 mm (.338)	4 PH 8068	.338 Lapua Mag.	4 PL/HL 8012	.338 (8.60 mm / .338)	Lock Base	B408	FMJBT	16.20	250	0.662
			4 PL 8017	.338 (8.60 mm / .338)	Scenar	GB488	HPBT	16.20	250	0.675
			4 PL 8013	.338 (8.60 mm / .338)	Scenar	GB528	HPBT	19.44	300	0.785
			N PL 8020	.338 (8.60 mm / .338)	Naturalis	N508	CEX	15.00	231	0.380
9.3 mm (.366)	4 PH 9050	9.3 x 62	4 PL 9017	9.3 mm (9.3 mm / .366)	Mega	E433	SP	18.50	285	0.339
			N PL 9202	9.3 mm (9.3 mm / .366)	Naturalis	N522	CEX	14.30	220	0.304
.50 (12.7 mm)			4 PL 1271	.50 BMG (12.7 mm / .59)	Bullex-N	BNS	SOLID	48.60	750	0.960
			4 PL 1272	.50 BMG (12.7 mm / .59)	Bullex-N	BNS	SOLID	51.80	800	0.980



The 4th Edition of the Vihtavuori Reloading Manual is a full package of important reloading information. Available through Vihtavuori distributors worldwide. New reloading guide also available.

Bullet abbreviations
CEX - Controlled Expansion, FMJ – Full Metal Jacket, FMJBT – Full Metal Jacket Boat Tail, HP – Hollow Point, HPBT – Hollow Point Boat Tail, HPCE – Hollow Point Cutting Edge, LWC – Long Wadcutter, SJFN – Semi-jacketed Flat Nose, SJHP – Semi-jacketed Hollow Point, SP – Soft Point, CHPBT – Coated Hollow Point Boat Tail

Product Nr. abbreviations
HL - Bulk packing
PL - Box packing

HANDGUN CARTRIDGES | METRIC

Caliber	Product No.	Bullet type Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)				Trajectory [mm]				Test barrel length [mm]
							Rifle sighted in at	sight (Scope 40 mm above bore line)			
								0 m	10 m	50 m	
.32 S&W LWC	4318023	LWC	240	228	189	149	25 m	2	-116	-914	150
		5,35 g / 83 gr	154	139	95	59	50 m	26	0	-681	
		C427	0	4	110	472	75 m	56	154	-373	
	4318026	LWC	240	232	202	171	25 m	2	-107	-799	150
6,35 g / 98 gr		183	170	130	93	50 m	23	0	-585		
C356		0	3	77	320	75 m	50	136	-313		
9 mm Luger (9x19)	4319200	FMJ	365	354	319	290	25 m	-6	-33	-287	100
		7,5 g / 116 gr	500	469	381	315	50 m	1	0	-221	
		R462	0	2	41	153	75 m	11	51	-118	
	4319175	FMJ CEPP Super	360	349	316	288	25 m	-6	-35	-294	100
		7,8 g / 120 gr	505	476	390	324	50 m	1	0	-225	
		F447	0	2	40	149	75 m	11	52	-120	
4319178	FMJ CEPP Extra	360	349	316	288	25 m	-6	-35	-294	100	
	7,8 g / 120 gr	505	476	390	324	50 m	1	0	-225		
	F447	0	2	40	149	75 m	11	52	-120		
4319177	FMJ	320	314	292	272	25 m	-4	-46	-359	100	
	8,0 g / 123 gr	410	393	342	295	50 m	5	0	-267		
	R381	0	1	31	116	75 m	17	63	-141		
4319163	FMJ Combat	355	345	315	289	25 m	-6	-35	-298	100	
	8,0 g / 123 gr	504	477	397	333	50 m	1	0	-227		
	R381	0	2	37	139	75 m	12	53	-121		

HANDGUN CARTRIDGES | IMPERIAL

Caliber	Product No.	Bullet type Weight Code	Velocity [fps] (Note barrel length) Energy [ft.-lbs.] Wind drift [in.] (wind speed 13 fps)				Trajectory [inch]				Test barrel length [inch]
							Weapon sighted in at	Impact point above or below line of sight Sights 0.8 inch above bore line			
			0 yd.	10 yds.	50 yds.	100 yds.		25 yds.	50 yds.	100 yds.	
.32 S&W LWC	4318023	LWC 5,35 g / 83 gr C427	787 114 0	748 103 0.2	630 73 3.7	508 47 15.5	25 yds. 50 yds. 75 yds.	0 1.9 4.3	-3.7 0 4.9	-29.0 -21.7 -11.8	6
	4318026	LWC 6,35 g / 98 gr C356	787 135 0	760 125 0.1	672 98 2.6	577 72 10.6	25 yds. 50 yds. 75 yds.	0 1.7 3.9	-3.4 0 4.4	-25.6 -18.8 -10.1	6
9 mm Luger (9x19)	4319200	FMJ 7,5 g / 116 gr R462	1 197 369 0	1 160 346 0.1	1 056 286 1.4	964 239 5.2	25 yds. 50 yds. 75 yds.	0 0.5 1.3	-1.0 0 1.7	-9.0 -7.1 -3.8	4
	4319175	FMJ CEPP Super 7,8 g / 120 gr F447	1 180 372 0	1 144 351 0.1	1 046 292 1.3	957 245 5.0	25 yds. 50 yds. 75 yds.	0 0.5 1.3	-1.0 0 1.7	-9.3 -7.2 -3.9	4
	4319178	FMJ CEPP Extra 7,8 g / 120 gr F447	1 180 372 0	1 144 351 0.1	1 046 292 1.3	957 245 5.0	25 yds. 50 yds. 75 yds.	0 0.5 1.3	-1.0 0 1.7	-9.3 -7.2 -3.9	4
	4319177	FMJ 8,0 g / 123 gr R381	1 049 302 0	1 030 290 0.0	964 255 1.0	901 223 3.9	25 yds. 50 yds. 75 yds.	0 0.7 1.7	-1.4 0 2.0	-11.4 -8.7 -4.6	4
	4319163	FMJ Combat 8,0 g / 123 gr R381	1 164 372 0	1 131 352 0.1	1 039 297 1.3	957 252 4.7	25 yds. 50 yds. 75 yds.	0 0.5 1.4	-1.0 0 1.7	-9.4 -7.3 -3.9	4

HANDGUN BULLETS AND CASES

BRASS CASES			BULLETS							
Caliber	Product No.	Designation	Product No.	Application (diameter mm/inch)	Bullet name	Product code	Type	Weight		Ballistic coeffi- cient
								g	grs	
.32 (7.65 mm)	4 PH/HH 8021	.32 S&W Long	4 PL 8023	.32 S&W (7.99 mm / .314)	Lead Wadcutter	C427	LWC	5.35	83	0.029
			4 PL 8021	.32 S&W (7.99 mm / .314)	Lead Wadcutter	C356	LWC	6.35	98	0.041
9 mm (.355)	4 PH/HH 9030	9 mm Luger	4 PL/HL 9016	9 mm Luger (9.02 mm / .355)	FMJ	R381	FMJ	8.00	123	0.125

Bullet abbreviations CEX - Controlled Expansion, FMJ – Full Metal Jacket, FMJBT – Full Metal Jacket Boat Tail, HP – Hollow Point, HPBT – Hollow Point Boat Tail, HPCE – Hollow Point Cutting Edge, LWC – Long Wadcutter, SJFN – Semi-jacketed Flat Nose, SJHP – Semi-jacketed Hollow Point, SP – Soft Point, CHPBT – Coated Hollow Point Boat Tail

Product Nr. abbreviations HL - Bulk packing, PL - Box packing

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