





LAPUA® PRODUCT CATALOG

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Karl Olsson (SWE), 300 m World Record holder.

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

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PASSION FOR PRECISION

"Passion for Precision" speaks to the core of who we are and our company culture. We align ourselves with competitors and outdoorsmen who share the same ideals of accuracy, consistency and camaraderie. Team Lapua's accomplishments exemplify the fact that we take shooting seriously, pursuing perfection in every product we offer.

World famous quality

Our reputation didn't happen accidentally – rather, it's the result of decades of experience, combining the best materials and processes that yield super precise, ultra-consistent components and ammunition. Add our demanding quality assurance and inspection processes, and our world famous quality and reputation become apparent. Ask any avid shooter about Lapua components and ammunition and they'll tell you there's no equal.

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.

Part of Nammo Group

Serious hand loaders and shooters seek to match the perfect cartridge to their firearm. The team here at Lapua understands this, and has made our "Passion for Precision" the guide for everything we build. We know that our precision crafted bullets and brass are just the beginning. We then combine those components using our depth of experience and state of the art manufacturing to produce ammunition that is unrivaled for its precision, consistency and downrange performance. Competitive shooters, hunters and Mil/LE operators understand that cheap ammunition will never achieve their desired outcome. They insist on ammunition that produces unmatched accuracy, reliable ignition, optimized muzzle velocities and superior ballistics. Expect what professionals around the world trust and experience our "Passion for Precision."







Lapua ® presents NEW LAPUA BRASS CARTRIDGE CASES Lapua, world-renowned for producing the finest cartridge cases and ammunition products, announces the addition of 6.5 PRC, .284 Winchester, .300 Winchester Magnum, and .300 PRC NEW OPEN TIP BULLETS AND FACTORY-LOADED CARTRIDGES

Lapua offers new Open Tip (OT) bullets and factory-loaded cartridges for target and hunting practice: Introducing the 8mm OT bullet and 8x57 IS OT cartridge and 9.3mm OT bullet and 9.3x62 OT cartridge.





6.5 PRC

cartridge cases to their 2021 product offering.



.284 Winchester

Originally designed in the early 60's to meet the performance of .270 Winchester and .280 Remington, the .284 Winchester has recently experienced a resurgence with long range shooters. F-Class competitors have designed several unique wildcat cartridges from the .284 parent case to shoot beyond 1,000 m/yd, and now the .284 Win is making its comeback to the discipline. The .284 Winchester's rebated rim design enables a larger powder column, yet easily functions through medium length actions making it desirable for custom rifles. Its accuracy potential and high muzzle velocity is also recognized in hunting fields where this cartridge performs nicely on a very wide scale.

.300 PRC

The .300 PRC was designed for extreme long range shooting with heavy bullets featuring high ballistic coefficients. Its superior ballistics and beltless case configuration represent modern case design that supports the use of modern long and high BC bullets. With its ability to load heavier bullets, the performance of the .300 PRC exceeds the .300 Winchester Magnum and many other .30 Magnums on the market. The .300 PRC is also an excellent performer in open and large hunting fields for long distance hunting of mid-to-large sized game with bullet weights even exceeding 15,8 g / 245 grains.

Although the 6.5 Precision Rifle Cartridge (or PRC for short)

was originally designed for long range hunting it is still an

excellent cartridge for both long range sport shooting and

hunting. Its increased case capacity enables velocities up to

80 m/s (262 fps) faster than the 6.5 Creedmoor or 6,5x55 SE.

By design, the cartridge features a longer throat enabling

the use of today's popular, high ballistic coefficient (BC)

projectiles for long-range competitions. The 6.5 PRC case is

a good match with relatively slow burning powder types.

It's unbelievable with heavy bullets, exceeding even 9,7

g / 150 grains with excellent retained energy and terminal

performance for European midsized and big game.

.300 Winchester Magnum

The .300 Winchester Magnum has been widely used by hunters, target shooters, military and law enforcement agencies around the globe since its inception in the early 1960's. It delivers excellent long range performance with a wide range of bullet weights from 165 to 200 grains and more. The .300 Winchester Magnum has a great reputation as a .30 caliber magnum hunting cartridge in Europe. There are clear advantages with the caliber - there is a huge bullet selection available for all kind of sport shooting and hunting for this caliber, and all major rifle manufacturers are chambering their rifles for it. Lapua is very pleased to offer our high quality case for these purposes.

8x57 IS

The 8x57 IS has earned a strong hunting image in recent years, but is now taking a step in the target shooting direction. The thought process behind the new 8mm 120 gr OT bullet is to design an easy and softly firing bullet that meets Lapua's strict accuracy requirements. The precision of this bullet offers shooters the opportunity to practice with the same rifle that they hunt with. For avid hunters that enjoy target competitions, the performance of this projectile can really make a difference.

A notable advantage of the bullet and the factory-loaded cartridge is that the bullet's point of impact coincides with the Lapua Naturalis, making both products ideal for hunting practice.

9.3x62

The 9.3x62 has traditionally been used only with big game hunting in mind. Requirements have changed with time and today this rifle cartridge needs a bullet that offers a more diverse use of the caliber amongst hunters. Lapua has answered this demand and developed the world's most accurate Open Tip bullet for this caliber, which extends its use to a diverse set of options from practice shooting to small predator hunting.

The 9.3mm, 185 gr bullet is available as a reloading bullet for home loaders, yet Lapua also offers it as a factory-loaded cartridge for anyone for whom accuracy and performance matter when choosing a cartridge. Also here, the impact point of resembles that of the Naturalis bullet, making this the ultimate round for hunters training for big game hunts.

As with all Lapua products, ballistic data and trajectory information will be published on Lapua.com, with load data available by Vihtavuori Powders.







The year 2020 was an exceptional year as almost all major shooting competitions were cancelled due to worldwide pandemic precautions. Only the biathlon events "survived" and were organized in the beginning of the year, with an outstanding Lapua success, as always.

IBU WORLD CUP 2019-2020 AND WORLD CHAMPIONSHIPS 2020

93,3 % out of all medals were taken with Lapua!





Brian Brandt

















Joe Besche































It will come as no surprise that Lapua rimfire ammunition receives the same level of focus and attention as our centerfire products. Competitive .22 LR rimfire shooters recognize Lapua rimfire cartridges to be the best in the world. In fact, Lapua compiled more gold medals in the 2018 Olympic Games than all other manufacturers combined. Each cartridge receives a visual inspection, and all lots must pass rigorous test standards for accuracy, velocity and chamber pressure before being released for distribution.





THE LAPUA CLUB REWARDS ITS MEMBERS

Lapua Club provides exclusive offers to its membership. There are currently over 35,000 members, and more than 100 new members joining each week. Becoming a member is easy – register using the QR code on Lapua product packaging or on separate Lapua Club cards. By registering your purchases, members may participate in product development surveys, prize campaigns and more! Members also gain access to more detailed Lapua product information, for example, trajectory charts for all cartridges. In addition, members may share their own Lapua success stories in the Lapua Club Story room – a feature unique to only Lapua membership. **Join today at club.lapua.com - win prizes and share your stories and passion with other fans! Read more at club.lapua.com.**

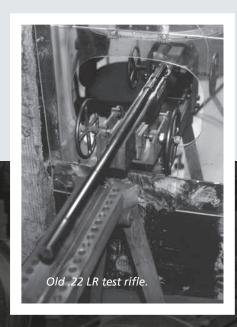
THE HISTORY OF LAPUA .22 LR RIMFIRE

For over 70 years, Lapua has supplied competitive rimfire shooters with the world's best .22 LR ammunition. Today, Lapua continues our commitment to all rimfire competitors, and works tirelessly to further improve our world renowned products.

Lapua made its first .22 rimfire ammunition just after WWII in 1947.

In a short time, from World Shooting Championships to the Olympics, Lapua ammunition has become synonymous with accuracy and victory. Lapua had assumed its place at the top of shooting competitions, where it has remained to this day.

Lapua introduced its .22 LR ammunition in its signature blue box where it quickly became a legend among rimfire shooting competitors for its outstanding consistency and accuracy. With products such as Match Grade and Championship, Lapua became world-famous for match-winning results. Lapua took the rimfire ammo technology even further, developing production technology that ensures the ammo maintains its extreme level of quality. In addition, Lapua was the first manufacturer to introduce variations in bullet diameter to their .22 rimfire ammunition, allowing shooters to more precisely tune their ammunition to their firearm platform.







NEW BOXES!

Improved weather durability and a fresh new layout in Lapua.22 LR rimfire boxes.

X-ACT

Extreme passion for precision

Lapua's X-ACT .22 LR ammo has been developed after an extensive research program to unite all of the best properties of each of the components. The shooters can depend on the absolute accuracy and consistency of this cartridge, known as an extremely sophisticated product of highest quality. X-ACT has been tested by most of the world's top rimfire shooters, and the comments have been nothing but praise: "The best .22 LR ammunition I ever shot." Our X-ACT ammunition is the true embodiment of our Passion for Precision.

MIDAS+

The new generation Midas cartridge

Lapua's Midas+ rimfire ammunition is the improved generation of Midas. The long success story of Midas ammo brought a lot of excellent results, which have been used as the basis for the new generation cartridges. Always accurate, this is the .22 LR ammunition of choice for many world class rimfire shooters.

CENTER-X

Versatility and superb perfomance

Lapua's Center-X gives you the confidence of high quality .22 long rifle match ammunition. This ammo is widely used by rimfire enthusiasts around the world. Lapua's Center-X is a versatile .22 LR cartridge known for its superb performance.

Lapua success with

X-ACT, MIDAS+ AND CENTER-X

The following ISSF rifle and pistol World Records have been recently achieved with Lapua:

- 50 m Rifle Prone Men / Torben Grimmel, DEN
 .22 LR X-Act
- 25 m Rapid Fire Pistol Men Final / Riccardo Mazzetti, ITA - .22 LR Center-X
- 25 m Rapid Fire Pistol Men / Christian Reitz, GER
 .22 LR Midas+
- 25 m Pistol Women / Monika Karsch, GER
 .22 LR Center-X

RIMFIRE PERFECTION

Whatever your competitive shooting discipline, you'll find the perfect offering from our wide selection of .22 LR rimfire cartridges. Whether you are competing in benchrest, pistol, biathlon, or smallbore, Lapua offers ammo specifically designed, and matched to each discipline.

In the early 2000s, Lapua reset the standard for .22 LR match ammunition when it introduced the X-ACT, a round that has proven to be the most uniform and accurate .22 LR ammunition ever offered.

Serious rimfire competitors use the best firearm and ammunition available to them. Lapua continues to deliver exceptional performance – from ISSF disciplines, to benchrest shooting, to biathlon, pistol, and 60-shot prone .22 LR competitions. Continue to feed your competition firearm platforms the ammunition that has no equal. Do you have "Passion for Precision"?



PISTOL KING

Loaded for success

This .22 LR ammunition was developed to be an extremely accurate competition cartridge ideal for short barreled firearms. It is consistent, provides excellent accuracy and gives smooth, reliable and dependable functioning. Lapua Pistol King has been loaded for success.

PISTOL OSP

Worldwide pistol ammo favorite

Lapua's Pistol OSP is a specialized ammunition for OSP (Olympic Sport Pistol) disciplines. Constant, accurate and precise, it is a favorite among rapid fire pistol shooters worldwide.

POLAR BIATHLON

Ideal target performance in all conditions

Lapua Polar Biathlon has been the ammunition behind the vast majority of biathlon medals won worldwide for many years. This cartridge is specifically designed for use in the frigid conditions common to most biathlon competitions. Lapua's Polar Biathlon round offers ideal performance under all conditions, with consistent accuracy and reliable ignition.

BIATHLON XTREME

The new best friend of the Biathletes.

The Lapua Biathlon Xtreme cartridge uses a newly developed, temperature insensitive powder that functions in all biathlon conditions. The bullet's special shape ensures reliable and easy functioning and together with the new



powder it provides unbeatable accuracy and consistent velocities. During product development, the Lapua Biathlon Xtreme cartridge endured extensive laboratory testing and calculations as well as demanding field testing for function and accuracy by two of the world's top biathlon teams.

SUPPLYING GOLD

PARTNER



OFFICIAL PARTNER

Lapua works closely with the International Biathlon Union and actively promotes biathlon sports.

Lapua Polar Biathlon and Biathlon Xtreme were

developed specifically for extreme weather conditions making these cartridges a perfect choice for winter biathletes. These cartridges are used by nearly all of the National Biathlon Teams for cold weather competition.

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LAPUA, FINLAND

LAPUA TEST CENTER

After the retirement of the long time Lapua factory test shooter Arvi Välkkilä, Olli Punkari now hosts the 50 m range midtown Lapua. Come and test your rifle in the newly refreshed Lapua Test Center!

ADDRESS: Kustaa Tiituntie 1, FI-62100 Lapua, Finland

BOOKING: Olli Punkari +358 40 737 4955

KONNEVESI, FINLAND

LAPUA TEST LAB

ADDRESS: Voipiovuorentie 50, FI-44300 Konnevesi, Finland BOOKING: Veijo Sivula +358 45 677 0599

SCHÖNEBECK, GERMANY

The best shooters understand that the ability to test different types of ammunition as well as ammo from different lots in their own firearms will help them achieve the best outcomes in competition. The 50 m Lapua test range in Schönebeck Germany exists for just this purpose.

A wide range of product as well as various lots are available for testing in both pistols and rifles.

The facility is equipped with high-tech Meyton testing technology. Additionally, a special climate controlled shooting area allows shooters to test their firearms in a climate similar to the one that will exist at their next biathlon.

16 national biathlon teams have visited the test range, and approximately 1000 firearms for over 250 customers are tested annually.

ADDRESS: Lapua Rimfire Test Range, Nammo Schönebeck GmbH, Wilhelm-Dümling-Straße 12, DE-39210 Schönebeck (Elbe), Germany

BOOKING: Tel. +49 3928 729 100, RimfireTestRange@nammo.com

MESA, ARIZONA, USA

Patterned after the world renowned Lapua Rimfire Test Center in Schönebeck Germany, Mesa's Lapua Rimfire Performance Center opened in 2012. Testing occurs at both 50 meters and 100 meters simultaneously using Meyton testing technology at both target points.

ADDRESS: Lapua Rimfire Performance Center, Capstone Precision Group, 4051 N. Higley Road, Mesa AZ 85215

BOOKING: Tel. +1 480 898 2731

Devan Stricker, rimfiretest@capstonepg.com

MARENGO, OHIO, USA

Our newest location opened in 2020 and is located at the prestigious Cardinal Shooting Center. This new location has all the same great features of our Mesa location, allowing 50 meter and 100 meter testing simultaneously.

ADDRESS: Lapua Rimfire Performance Center, 616 State Route 61, Unite 3-9 Marengo, OH 43334

BOOKING: Tel. +1 480 898 2748

Luke Johnson, rimfiretesteast@capstonepg.com

ROYKEN, NORWAY

The Lapua .22 Test Center in Royken, Norway boasts a 15 m and 50 m shooting range with digital measurement and various bench configurations that allow shooters to test ammunition in their own firearms. The Norway facility also features a cooling chamber that allows biathletes to test firearms and ammunitions in temperatures as low as -25° C.

ADDRESS: Lapua Test Range Norway, Testskyting No DA, Bryhnsveien 5, NO-3440 ROYKEN, Norway facebook.com/Testskytingno

BOOKING: Roy Skogly +47 906 35 101, roy@testskyting.no





MESA RIMFIRE PERFORMANCE CENTER

The Lapua Rimfire Performance Center is located at the headquarters of the Capstone Precision Group, exclusive U.S. distributor of Lapua components and ammunition. It's located in Mesa, AZ and equipped with state of the art Meyton testing technology. At the Lapua Rimfire Perfomance Center, a competitive shooter, accuracy enthusiast, or team will find everything they need as they seek to derive perfect performance and accuracy from their firearm.



ammunition from multiple lots to enable a perfect match of ammo to firearm.

Additionally, return to battery rests and indoor controlled environmental conditions will help to ensure that once an ammunition is matched to a firearm, its performance will hold up in the rigors of competition.

Shooters who wish to be involved in their firearm testing are welcome to visit the test center in Mesa, AZ and see the process firsthand. For those not able to make the trip, simply send us your rifle. We will test various lots of ammo and report the results to you along with our recommendations before we safely return your firearm.

Rifles may see up to ten different lots of ammunition tested. When the rifle's owner is present for the tests, results and recommendations will be reviewed in person. For those who have sent their rifles to us for testing, we will send results via email, including the actual targets so that based upon actual results, the best ammunition for that particular firearm can be selected and purchased.



HERMETICALLY SEALED CARTRIDGES

CENTERFIRE CARTRIDGES AND COMPONENTS

Serious hand loaders and shooters seek to match the perfect cartridge to their firearm. We build and combine our finest components using state of the art manufacturing to produce ammunition that is unrivaled for its precision, consistency and downrange performance. World renowned quality you can trust. For top results in any conditions the Lapua AirlockTM hermetically sealed cartridge stays safe from moisture

COME RAIN OR SHINE

Lapua is constantly developing new technologies to ensure our products meet the highest possible quality standards. Our latest improvement is the hermetically sealed cartridge, a unique offering on the market.

In practice, this automated process creates a seal on the seams of the cartridge, between the case and bullet as well as the primer and case.

The hermetical seal ensures that the powder within the cartridge is safe from outside moisture or changes to moisture levels. As cartridges often have to endure long transports and storage in a multitude of environments, hermetical sealing will keep the Lapua cartridges moisture-free, in a class of their own.

For shooters, it means they can enjoy superior results - come rain or shine.



Lapua pistol and revolver ammunition may be summed up in two words – Accurate. Reliable.

Lapua revolver and pistol ammunition is without a doubt the best-in-class for all events under the CISM and ISSF. In fact, in CISM pistol events, nine out of ten competitors choose Lapua cartridges.

Lapua handgun cartridge ammunition is being tested constantly in many different firearm platforms – and although our quality standards are very high, we are constantly working to exceed them. To us, a single ragged hole in the target should be the normal result from a string of shots. This standard is also the reason we are so highly recommended by the pistol manufacturers of the world.



.32 **S&W LONG**



Lapua's .32 S&W Long wadcutter cartridges are renowned for their world-class accuracy and reliability in every respect. In fact, Lapua cartridges have become the preferred choice among CISM and ISSF competitors, with 90% of them choosing the Lapua .32 S&W cartridge for the ultimate in 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.

At the 7th CISM Military World Games 2019 in Wuhan, China, more than 95 % of the centerfire pistol competitors used Lapua ammunition.





Lapua ammunition is known by shooters all over the world. We are pleased to partner with the world's top shooters, and to be an example copied by other manufacturers.



Lapua's match-grade rifle cartridges are loaded with our premium Scenar, Scenar-L, FMJBT, D46 and Lockbase offerings. These match-grade rifle rounds have captured the gold during several World Championships, Olympic Games and other top competitive venues.



Lapua 6.5 Creedmoor match-grade ammunition is tailored to specifically meet the demanding needs of today's mid-range precision rifle competitors. Whether its multigun, PRS, NRL or other competitive disciplines, the 6.5 Creedmoor has dominated the winner's circle and contributed to each discipline's sustained growth. The 6.5 Creedmoor's popularity with competitive shooting has gained recognition throughout the hunting community as well, and has quickly established itself as an excellent medium sized game offering. Shooters enjoy a variety of factory loaded offerings, such as Lapua's 8,0 g / 123 gr Scenar and 9,1 g / 140 gr Naturalis, that provide exceptional performance across a broad range of applications.



.222 REMINGTON

The cartridge with inherent accuracy - .222 Remington

The .222 Remington, also called "The triple deuce", was a popular target cartridge particularly among benchrest shooters from its introduction in 1950 until the mid-1970s. Lapua offers a perfect selection of factory loaded cartridges in this centerfire caliber.



.223 REMINGTON

The Lapua .223 Remington match ammunition has been designed to meet the strict demands of competitive shooting. It is one of the most popular centerfire rifle cartridges in the world. It is today one of the most common rifle rounds in use in the U.S., especially among varmint hunters and 3-gun sport shooters.

This caliber offers tremendous versatility, thanks to a very wide selection of bullet types and weights. For targets beyond 600 m and practical matches, Lapua offers the perfect bullet in this caliber.



6.5X55 SE

Accurate and versatile. Especially popular in the Scandinavian countries, including longrange field shooting discipline, Lapua's 6.5x55 SE cartridge delivers a flatter 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.



.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.



6MM BR NORMA

World-class accuracy with minimal recoil. The 6mm BR Norma is the cartridge of choice in ISSF and CISM 300 m events. Lapua's 6mm BR ammunition is the right choice for shooters who want a lighter bullet that is easier on the shoulder, and yet delivers reliable match winning accuracy. Lapua's 6mm BR ammunition is currently used by world's top competitors.



6.5X47 LAPUA

The ideal choice for extreme accuracy.

Fast, incredibly accurate and having light recoil, the 6.5x47 Lapua is a cartridge designed for serious competition shooting, specifically for 300 meter matches. The chamber and throat dimensions are optimized for the Lapua Scenar bullets. After its introduction in 2005, shooters of other disciplines quickly saw the advantages of the 6.5x47 Lapua and began using it in several other venues as well.



.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 OTM Scenar is ideal for the long-range sports shooter.

See the new cartridges on page 5.



THE MOST PRECISE CASES

on the market

Lapua has a long standing tradition of using the finest materials, state of the art manufacturing methods and old world craftsmanship in producing our cases. We start by carefully drawing only the very best material, carefully controlled, measured and verified at every step of the process. Primer pockets and flash holes are held to strict tolerances to withstand repeated reloadings. After the necking is completed, the cases are given their final neck anneal for optimum durability and accuracy.



.32 S&W LONG WC

The Lapua .32 S&W Long case - for the reloading handgun shooter. High class accuracy and functionality.

The Lapua .32 S&W Long case is the solid base for any reloader who wants to have best available quality in pistol cartridge reloading. Lapua pistol brass dominates the competitions in centerfire pistol shooting offering optimal on-target performance.

The base, body and neck of the Lapua cases have been designed to maintain exact tolerances over multiple reloading cycles. Advanced metallurgical research and manufacturing techniques ensure that Lapua cases are leaders in uniformity and quality.



6.5 CREEDMOOR LARGE RIFLE PRIMER

The 6.5 Creedmoor LRP offering provides reliable ignition with a large primer in the most extreme weather conditions for hunting, competitive shooting or military / law enforcement support. It also functions and performs flawlessly in today's ever-popular semi-auto gas guns, AR's, and other similar platforms predominantly used in the US market place.

Base. The Lapua case heads are drawn exceptionally hard for unmatched reloadability and exceptionally long life. The dimensions remain constant and will hold primers tight in their pockets even after many reloadings.

Body. The brass body section is hard and resilient for unmatched durability. It is easy to extract after firing, whether full sizing or only neck sizing was used in reloading.

Neck. Strict tolerances in concentrity and wall thickness are used in manufacturing. The neck and shoulder are annealed to withstand repeated reloading.



.220 RUSSIAN

The king of reloading - Lapua's .220 Russian

The Lapua .220 Russian case is the most popular brass for benchrest shooting. The .220 Russian is the parent case for the .22 PPC, 6mm PPC and the 6.5mm Grendel cartridge. More than 90 % of all the benchrest shooters in the world use Lapua's .220 Russian cases as a parent case for 6mm PPC. There is no doubt - Lapua's .220 Russian brass is the king of benchrest reloading.



.222 REMINGTON

The perfect choice for varmint and small game. Our .222 Remington is a pure Lapua quality product produced with extremely tight tolerances in neck concentricity and wall thickness. This flat shooting little round is excellent for small game hunting and varmint purposes. The Lapua .222 Rem. brass can be reloaded time after time, without losing its performance and precision.



.223 REMINGTON

Select the best brass - .223 Remington

Lapua's .223 Remington Match case shows unbelievable performance when it comes to both durability and precision. Consistent quality guarantees consistent results. The large case volume ensures high velocity potential. Lapua offers a true match quality brass case for this classic military cartridge, allowing it to live up to its potential as a competitive cartridge.



.22-250 REMINGTON

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



6MM BR NORMA

Without exaggeration, Lapua's 6mm BR case is absolutely the best case in its class. The 6mm Norma BR has become a popular chambering in match rifles used in 300 meter rifle disciplines. Lapua's 6mm BR Norma is the standard to which all other cases are compared.



6MM CREEDMOOR

Our 6mm Creedmoor is a beautifully drawn case, properly annealed at the neck and shoulder, with head metallurgy specifically chosen for durability, and the same small rifle primer, small flash-hole design that delivers the ultimate accuracy edge. The smaller 6mm bore diameter offers an excellent selection of proven low-drag match bullets that offer outstanding long range performance with even less recoil.



.243 WINCHESTER

The .243 Winchester case has all the world famous qualities of Lapua's unrivaled .308 Winchester brass. With a light bullet load the .243 Win. case works like a charm for long distance varmint and bird hunting. For larger game, such as deer, the optimal choice of bullet weights is 100 - 105 gr.



6.5 CREEDMOOR

Made with Lapua's typical dedication to precision, our 6.5 Creedmoor case has been refined just a bit, to make it an even better performer. We offer the 6.5 Creedmoor with the small rifle primer which normally produces an optimized ignition and better accuracy in mid-sized cartridges, as well as the large rifle primer version.



6.5 GRENDEL

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



6.5X47 LAPUA

A true masterpiece. 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.





.260 REMINGTON

Offering the same level of ballistic performance as the venerable 6.5x55, the modern case design of the .260 Remington delivers superb accuracy in a short action format. Having already established its tremendous versatility not only in the game fields, but on silhouette ranges, the .260 is a natural for the Lapua line.



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 in other parts of the world as well.



7X64

The 7x64 has succeeded in maintaining its position as one of the most popular hunting caliber in Europe. Since then, it has earned a well deserved reputation for itself as a medium size game hunting round – its performance even exceeds the performance requirements of moose hunting round in most countries.



6.5-284

The favorite brass of long range shooters and an ideal selection for any game where a potent .264" cartridge is considered suitable. This world renowned Lapua brass is of match quality that can be loaded more times than any brass from competitors. Lapua 6.5-284 is the reloader's dream.



7MM-08 REMINGTON

The 7mm-08 came to dominate the High Power Silhouette rifle game shortly after its introduction, offering a superb combination of power, light recoil and accuracy. With ballistic performance exceeding that of the time honored 7x57mm Mauser, but suited to a shorter action, the 7mm-08 is an ideal caliber for most big game hunting.







8X57IRS

Lapua standard for breech brake combination guns like double rifles, drillings and vierlings. No matter what kind of game you are aiming, the quality of the case will not be the one to blame if you miss. Tens of reloading cycles will tell you the secret of Lapua's incredible case quality.



.338 LAPUA MAGNUM

The unbeaten champion. Lapua's signature development, the original .338 Lapua Magnum is the undisputable choice for those who want to build their own long range rifle cartridge, using only the very best available components. The accuracy, reloadability and repeatability of .338 Lapua Mag. brass are unbeaten. The .338 LM case is a favorite among top rifle shooters around the world and in all kinds of shooting disciplines and hunting grounds.



.338 NORMA MAGNUM

Based on the .416 Rigby case, the .338 Norma Magnum was developed by J. Sloan and D. Kiff as a long-range sporting cartridge. Norma adopted the design and standardized it with CIP in 2010. The US military has spurred the development of some machineguns chambered for the .338 Norma, which would be capable of providing superb long-range capability. With Lapua's unmatched standard of quality, handloaders will find our new .338 Norma Magnum cases a choice for extra long range shooting applications.



9.3X62

The hunter's brass choice. The 9,3x62 case is the top choice for hunters of big game who tailor their own rifle loads. True stopping power for big and dangerous game. A life-long partner for hunters worldwide.

See the new cartridge cases on page 4.



Precision projectiles LAPUA BULLETS

Lapua bullets are known for their extreme accuracy and superior ballistic designs. From the world famous Scenar and Scenar-L, to the variations of FMJ, all of which are optimized for their intended use, and finishing with the NATURALIS and MEGA for hunters. From Olympic Gold to World Championships or local matches, to the mountains and woods, whatever your shooting pursuit, there is a LAPUA bullet perfectly tailored for it.

Lapua bullet development is ongoing and methodical. Drawing on our own experience, R&D, and listening carefully to reloaders and their feedback, we continually work to perfect our product offerings for every type of shooting discipline.

The Lapua D46 was developed over 80 years ago in the 1930s, and to this day, is still one of the best FMJ bullets available. While Lapua bullet development has focused on high pressure rounds and hollow point designs, the proven track record of the D46 has maintained it as a relevant segment of the Lapua product line to-date.

Lapua hasn't rested on its laurels however, with the introduction of the Scenar-L, the ultimate match rifle bullet as well as the third generation, lead-free NATURALIS line of hunting bullets, there is a Lapua bullet carefully matched to any shooting pursuit.

Our Scenar Match bullets represent the head of its class. Having achieved a 600/600 World Record of the International Shooting Sports Federation (ISSF), the consistent quality, starting with the raw materials used make it a nearly hand-made custom bullet that yields the consistent outcomes that competitors have come to expect.

See the new bullets on page 5.

Read more about Lapua's OTM Scenar bullets on page 24.



SCENAR BULLETS - ULTIMATE ACCURACY

SCENAR - THE FIRST CHOICE FOR SERIOUS TARGET COMPETITION

Lapua's record-breaking line of Scenar target bullets were first introduced in the mid-1980s, and immediately made a name for themselves. They were the very first European manufactured HPBT match bullets and set the standard from that point on. In 1990, the Scenar was used in Moscow to set a new World Record in the ISSF 300 meter competition with 600 points out of a possible 600. Literally, a perfect score. The Scenar's accuracy and unrivaled consistency has made them the natural choice for the serious competitor. But it gets better. We at Lapua have never been content to rest on our laurels. We have recently undertaken a major program to make these outstanding bullets even more accurate. Not a redesign in ballistics, but a refinement in all manufacturing steps. Using our state of the art manufacturing capabilities and decades of competitive experience, we have set out to tighten all measures and requirements, including our already famous quality control standards. Closer weight tolerances, tighter jacket wall concentricity standards, and greater uniformity in every dimension, starting from the gilding metal cup, lead wire and jacket forming, ending up to corejacket assembly, boat tail pressing and tipping.

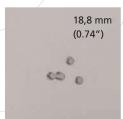
THE SCENAR-L BULLET

Several new proprietary machines, manufacturing steps and advanced instrumentations combined to the Scenar-L manufacturing line creates a state-of-the-art production process never seen before in bullet production. We also took our already high quality control standards and kicked them up a notch. This new generation of match bullets has been dubbed the Scenar-L, and is a fitting successor to the vaunted Scenar family. Sharing the same aerodynamic profiles as its predecessors, the Scenar-L is the perfect choice for any type of competitive shooting. Whether it's ISSF or CISM, Benchrest or F-Class, Silhouette, High Power Across the Course or Long Range, the new Scenar-L line will give you the extra edge that takes you to the winners circle. Based on the Scenar's proven track record of competitive successes, Lapua's Scenar-L will deliver the ultimate performance in the most demanding competitive environments every time.

Precision craftsmanship, painstaking quality control standards, state of the art manufacturing technology and advanced ballistic design all combine to make the Scenar-L the very best of the best!

Typical accuracy for GB542 Scenar-L bullet

Tested with premium rifles with matched load of 1,90 g / Vihtavuori N140 at 300 m. Average diameter of 4 x 5rds is 0.94" (0,275 MOA).









SCENAR CURRENTLY HOLDS THE FOLLOWING WORLD RECORDS

IBS 600 yd Heavy Gun Class / John Lewis, USA (2008) - .308 Win. GB491 155 gr OTM Scenar ISSF 300 m Rifle 3P Men / Cyril Graff, FRA (2013) - 6 mm BR GB478 6,8 g / 105 gr OTM Scenar ISSF 300 m Rifle Prone Men / Harald Stenvaag, NOR (1990) - .308 Win GB422 10,85 g / 167 gr OTM Scenar ISSF 300 m Standard Rifle Men / Cyril Graff, FRA (2014) - 6 mm BR GB478 6,8 g / 105 gr OTM Scenar ISSF 300 m Rifle 3P Women / Anzela Voronova, EST (2013) - 6 mm BR GB478 6,8 g / 105 gr OTM Scenar ISSF 300 m Rifle Prone Women / Charlotte Jakobsen, DEN (2009) - 6 mm BR GB478 6,8 g / 105 gr OTM Scenar



Lapua Ballistics is the ultimate 6DOF ballistics tool for mobile devices. Lapua Ballistics is the first mobile ballistics app utilizing the 6DOF calculation model, which makes it the most accurate ballistics app on the market. Lapua Ballistics always offers the latest, Doppler proven Lapua cartridge and bullet data for you to combine with your firearm and local weather information. The app also includes the option to define custom bullets manually.

The Ultimate Ballistics calculator LAPUA BALLISTICS APP



The Lapua Ballistics App is available for Android and iOS mobiles free of charge. Language options: English, German, Finnish, Norwegian, Polish, French, Spanish and Afrikaans.

Featu

- Utilizes 6DOF, the most accurate calculation method
- Always available with latest Lapua cartridge / bullet information
- Quick and easy to change inputs like distance, wind speed and angle
- Several result outputs available depending on your needs; numerical, reticle, table and graph views
- Share your calculation results with your friends

Manage rifle / Cartridge data

- Create and clone your own firearm / reticle combinations
- Choose between metric and imperial values
- Set Point Blank-range to different sight-in distances and impact windows
- Set Aiming point to moving target
- Add custom bullets (calculations based on BC G1 or G7 and Siacci method)
- Pre-set max 4 powder temperature V0 pairs to the same cartridge to correct powder temperature sensitivity
- Features eg. Sight-in-POI, Coriolis, Max Range and Cant Angle calculation
- Compare up to 3 Lapua cartridge/bullet performances to each other
- Custom trajectory tables

Download

Lapua Ballistics USER INFO
from lapua.com/resources/
downloads/

The latest version of the Lapua Ballistics app is available for Android and IOS users, including new features. Please check lapua.com/resources/lapua-ballistics-app/ for details.









The highest manufacturing standards.

Lapua quality is uniquely certified and approved by elite forces and military units worldwide. Long-term cooperation with allied defense organizations helps us to understand the special requirements which military and other professional users demand.



Specialized in precise operations.

Lapua started manufacturing ammunition in 1923, and since then match ammunition development and production have been an essential part of Lapua operations. During this past century, we have introduced numerous iconic offerings within the sniper ammunition and tactical shooting segments.

Lapua tactical ammunition is made to meet the same standards and requirements like our match ammunition that have been used to win innumerable medals and championships in national and international shooting competitions. The Lapua Tactical Ammunition is much more than just match ammunition as Lapua Tactical Ammunition are made to meet strict military transportation and storage requirements.

Lapua's most famous individual product is the .338 Lapua Magnum that outperforms other long range cartridges in military applications. Our product range covers the Lock Base FMJBT, Scenar OTM, AP, API and other cartridge types for military tactical shooting applications.

Lapua .338 Lapua Magnum ammunition provides superior long-range performance second to none. For example, Lapua's .338 LM 300 gr AP bullet will penetrate at least 12 mm (c. 0.5 inch) of super hard HB500 armor steel at 600 meters.

The .338 Lapua Magnum is not the only product in Lapua tactical product family. We supply also the world's best selection of .308 Win tactical cartridges that include also the Lock Base FMJBT, Scenar OTM, AP and other cartridge types for various tactical implementations.

Our .308 Win. ammunition apex is a 170 gr Lock Base bullet that is loaded to two different cartridge types: The legendary high velocity HPS round, that is the most flat shooting and outreaching .308 Win. sniper ammunition available. Other type is the .308 Win. Semi Auto cartridge tailored for short barrel self-loading rifles.

The most recent additions in our product range are the 6.5 Creedmoor and .260 Rem. tactical cartridges. Although the .300 Norma Magnum and .338 Norma Magnum ammunition are not listed in ballistic tables in this catalog, they will be available in future.



.338 Lapua Magnum

HISTORY

by Janne Pohjoispää

The .338 Lapua Magnum originates back to year 1982 when the .338/416 cartridge was developed for the United States military purposes. Officially, the project was to develop a target rifle and cartridge for 1000 yards, but in reality the purpose was more likely to develop a 1500 meter sniper rifle.

The 300 Winchester Magnum and other commercial cartridges did not meet penetration requirements, so the search for heavier caliber with better ballistics created a wildcat cartridge that was originally formed from a necked down 378 Weatherby Magnum case, and finally from the 416 Rigby case. The new cartridge was known as the .338/416 or 8.58x71.

Lapua finished development of the first bullets and cases for the .338/416 cartridge in 1985. Its first .338 caliber bullet was the B408, which in 1985 looked more like a steroid fed D46 than the Lock Base type currently produced.

In 1986 the .338/416 cartridge with Lapua bullet and case, won the 1,000 yard navy rifle competition in Quantico, Virginia. In spite of that, the U.S. military selection criteria went in a different direction. Lapua was left more or less alone with the new caliber cartridge, yet management decided to continue its product development. This resulted in specifying the measurements, and the cartridge was named the .338 Lapua Magnum. The .338 Lapua Magnum was slightly different than the original .338/416. Case and chamber dimensions were modified, along with the interior structure of the case to withstand higher chamber pressures than the .338/416 design. The .338 Lapua Magnum became a new Finnish cartridge, even though the idea was born on another continent.

The loading techniques were also developed and refined at Lapua. A powder load of approximately 90 grains of slow burning powder needs a powerful ignition using a large rifle magnum primer. The first test lot of .338 Lapua Magnum ammunition was produced in 1988, with CIP approval following in 1989

The original B408 design from 1984 was modified to Lock Base type, and the B408 got its current shape. Its weight remained at 250 grains. The first soft point bullet was MIRA, streamlined from the Mega bullet. The 259 grain EB431 bullet was introduced commercially with the new cartridge in 1990.

The HPBT Scenar bullet was introduced in 1996. Different kinds of special purpose equipment were also tested: armor piercing, armor piercing incendiary, solids and SLAP-type projectiles were examples of the tested specimens.

Soon the new cartridge started raising interest on the original continent of development. The larger .338 Lapua Magnum cartridge did not fit into traditional size actions and required a larger platform. Very few of these larger bolt action rifles existed, so co-operation with some European manufacturers started in the late 1980's to develop suitable rifles for the .338 Lapua Magnum. Among the first rifle makers were Accuracy International of UK and Sako of Finland. Accuracy International later delivered the first military contracts for .338 Lapua Magnum rifles. In the 1990's more .338 Lapua Magnum rifles appeared in the market. During the following years, the .338 Lapua Magnum received a steady foothold in many Western hemisphere armies and similar organizations.

This catalog reveals the current Lapua selections of .338 Lapua Magnum ammunition, including both 250 and 300 grain Scenar and AP projectiles.

Lapua offers a complete selection of .338 Lapua Magnum ammunition including Ball, Armor Piercing, Armor Piercing Incendiary, Open-Tip, Blank, Drill and Solid cartridges.



The Original

.338 LAPUA MAGNUM

The Original .338 Lapua Magnum is currently the best choice for long range sniper applications, extending the operator's range to well beyond one kilometer.

.338 Lapua Magnum fills the gap between 7.62mm and .50 caliber sniper systems. The .338 Lapua Magnum sniper systems are currently employed by several armed forces throughout the world. The trajectories of Lapua bullets are tailored to match, so there is no need to change sight setup when changing the cartridge type. Some cartridges are hermetic, optional for all products. All .338 Lapua Magnum cartridges are packed in M2A1 steel cases.

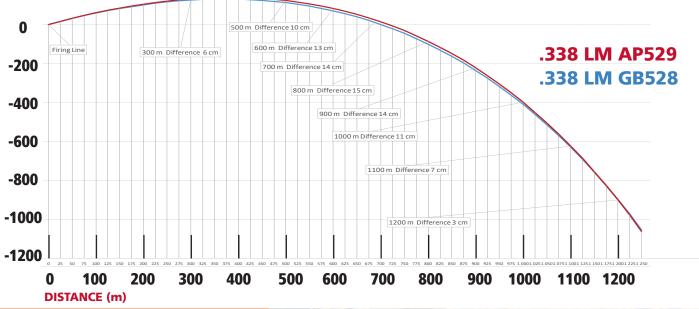
B408 Ball features a 16.2 g / 250 gr Lock Base FMJBT bullet, remaining supersonic up to 1300 meters. AP485 features a 16.1 g / 248 gr Armor Piercing bullet, trajectory matched with B408 Ball. The world's most accurate armor piercing ammunition will penetrate 10 mm of armored steel at 800 meters.

.338 Lapua Magnum cartridges are also offered in 19.4 g / 300 gr, including the GB528 Scenar, AP529 Armor Piercing and API571 Armor Piercing Incendiary, extending accuracy and penetration capabilities at longer ranges.

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.

MATCHING TRAJECTORIES

.338 LM 300 grs Scenar and AP bullet path difference while a 300 gr Scenar is zeroed at 700 meters.







World's standard, Lapua's .308 WINCHESTER

.308 Winchester (7.62x51mm NATO) possesses mild recoil, good terminal ballistics, and an effective range of 800 meters (875 yards). This versatility is the reason the caliber remains the most popular choice for use in law enforcement and military sniping applications.

Lapua is the world leader in providing match grade projectiles in this caliber, offering several types of Ball, Open-Tip, Armor Piercing, Solid, and Subsonic bullets.

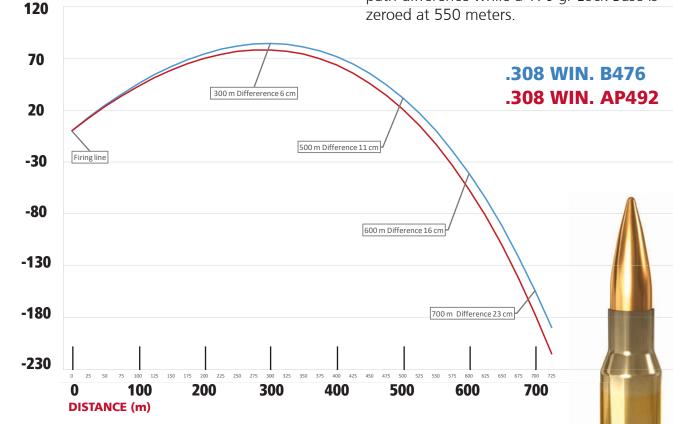
Since the introduction of the legendary D46 cartridge,

still in use today, Lapua's .308 Winchester ammunition is in use by militaries and government agencies throughout the world. Lapua .308 ammunition is not only the world's most accurate, but the closely matched ballistic trajectories between different projectile types increases its tactical effectiveness for the operator.

.308 Winchester is probably the most versatile centerfire rifle caliber today, and capable of outstanding accuracy. The caliber was introduced in 1952.

MATCHING TRAJECTORIES

.308 Win. 170 gr Lock Base and AP bullet path difference while a 170 gr Lock Base is zeroed at 550 meters



.308 Win. 11 g / 170 gr FMJBT SEMI-AUTO cartridge

This tactical cartridge by Lapua is developed for short barreled semi-auto rifles. It is designed for optimal ballistic performance in shorter barrels (12"-20"). Lapua tailored the powder type and charge weight to reduce muzzle blast and flash while still delivering outstanding accuracy and velocity. From a standard 16" barrel, muzzle velocity should be 754 m/s and routinely capable of shooting groups under 1 MOA at 300 meters (<87mm / 300m) with quality rifles. This tactical cartridge works flawlessly with DMR-type semi-auto rifles.

For mid-range



The 6.5 Creedmoor has received a lot of attention and continues to grow in popularity also in tactical applications. The 6.5 Creedmoor is a very flat shooting cartridge with excellent ballistics that often exceed the 308 Winchester in windy, long range conditions. In terms of ballistics and hit probability, the 6.5 Creedmoor is best compared to the .300 Winchester Magnum. The 6.5 Creedmoor size is similar to the .308 Winchester and it will fit in similar actions and platforms. The 6.5 Creedmoor is a true 1000 m round that can be used with both semi-auto and bolt action rifles.

For tactical applications, Lapua offers 6.5
Creedmoor ammunition packed to meet
military requirements loaded with OTM bullets.
Lapua also offers the first Armor
Piercing (AP) offering AP570
available for the
6.5 Creedmoor.

.260 REMINGTON

The .260 Remington is also a medium length cartridge with similar dimensions to the .308 Winchester. Developed several decades earlier as wildcat cartridge, the .260 Remington was the first 6.5 mm cartridge with a medium length case. It provides very similar ballistics compared to the 6.5 Creedmoor, but with less pressure due to the larger case capacity.

For tactical applications, Lapua offers the .260 Rem. ammunition packed to meet military requirements loaded with OTM bullets.

For Lapua tactical bullets, see the selection on page 9.





TACTICAL BULLETS

BALLISTIC COEFFICIENT

For ultimate accuracy and precision, Lapua uses radar based data for all tactical projectile ballistics.

BULLET NAME	.338	Code	Ballistic coe Velocity ran	ge [m/s] / [fp				Ballistic coefficient G7
DOLLET NAME	Weight	Couc	> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	> 380 m/s > 1250 fps
Naturalis (Solid)	15.0 g / 231 gr	N508	0.376	0.363	0.276	0.397		0.193
Scenar	16.2 g / 250 gr	GB488	0.646	0.632	0.588	0.613		0.320
Lock Base	16.2 g / 250 gr	B408	0.621	0.589	0.527	0.545		0.310
Armor Piercing	16.1 g / 248 gr	AP485	0.564	0.562	0.539	0.559		0.289
Armor Piercing Incendiary	16.4 g / 253 gr	API526	0.554	0.531	0.482	0.480		0.269
Scenar	19.4 g / 300 gr	GB528	0.745	0.756	0.726	0.728		0.368
Armor Piercing	19.4 g / 300 gr	AP529	0.726	0.707	0.683	0.632		0.366
Armor Piercing Incendiary	19.4 g / 300 gr	API571	*	*	*	*		*
	.30 l	BULI	LETS					
BULLET NAME	Weight	Code	Ballistic coe Velocity ran	ge [m/s] / [fp				Ballistic coefficient G7
DOLLET MAINE	Weight	Code	> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	> 380 m/s > 1250 fps
Scenar-L	10.0 g / 155 gr	GB552	0.473	0.459	0.436	0.442		0.230
Armor Piercing	10.7 g / 165 gr	AP492	0.447	0.425	0.382	0.313		0.213
Lock Base	11.0 g / 170 gr	B476	0.511	0.476	0.402	0.287		0.249
			> 740 m/s > 2430 fps	740-550 m/s 2430-1800 fps	550-380 m/s 1800-1250 fps	380-300 m/s 1250-980 fps	< 300 m/s < 980 fps	> 380 m/s > 1250 fps
Scenar	10.85 g / 167 gr	GB422	0.473	0.446	0.405	0.365		0.223
Naturalis (Solid)	11.0 g / 170 gr	N558	0.367	0.353	0.365	0.429		0.177
Scenar-L	11.3 g / 175 gr	GB550	0.488	0.482	0.469	0.507		0.247
Scenar	12.0 g / 185 gr	GB432	0.503	0.486	0.453	0.468		0.242
D46	12.0 g / 185 gr	D46	0.527	0.510	0.460	0.461		0.254
			> 300 m/s > 980 fps	< 300 m/s > 980 fps				
Subsonic	13.0 g / 200 gr	B416				0.515	0.413	0.229
Scenar-L	14.3 g / 220 gr	GB551	0.647	*	*	*		0.324
	6.5 MM /	.264	I BUL	LETS				
BULLET NAME	Weight	Code	Ballistic coe Velocity ran	fficient G1 ge [m/s] / [fp	s]			Ballistic coefficient G7
	3/1		> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	> 380 m/s > 1250 fps
Scenar	8,0 g / 123 gr	GB489	0,536	0,523	0,483	0,441		0.263
Scenar-L	8,8 g / 136 gr	GB546	0,564	0,539	0,521	0,533		0.274
Armor Piercing	9,4 g / 145 gr	AP570	*	*	*	*	*	*



SCENAR

Scenar is an extremely accurate open-tip match bullet. The boat tail base provides an outstanding ballistic coefficient. Lapua Scenar bullets give superb results at long ranges.



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.



LOCK BASE

Unbeatable accuracy over extra long distances. Lock Base tail structure provides exceptional accuracy also at high pressures and high muzzle velocities. FMJBT configuration reduces drag and provides a flatter trajectory.



ΛD

Lapua's AP is the most accurate armour piercing ammunition that is manufactured using proven match grade technology. It provides excellent penetration against hard targets. Now available also in the 300gr family, and for 6.5 mm caliber solutions.



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.



NATURALIS (SOLID)

Innovative bullet design enables controlled expansion with 100% retention weight. Bullet construction with valve design offers a maximal shock effect over the wide terminal velocity range (500-1000 m/s). For operational purposes the solid frame construction enables a straight bullet path through laminated glass without fragmentation.



API

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





NATURALIS® BULLETS AND CARTRIDGES

POLYMER VALVE

The new Naturalis design uses state of the art technology to produce consistent, controlled expansion. The polymer valve design uses hydraulic force to create the optimum mushrooming effect at the widest velocity range on the market.

MONOLITHIC COPPER BODY

The bullet is designed and manufactured by u copper. The material, design and controlled ensures a solid and nearly unbreakable of The weight retention, even after impacting bone, is frequently 100% of its original

> **IMPROVED SHAPE BETTER BALLISTICS**

BALLISTIC ADVANTAGE OF BOAT TAIL DESIGN

AND DESCRIPTION OF THE PARTY OF

The boat tail design eases reloading, and together with the streamlined ogive provides improved downrange ballistics.

BEST LOW VELOCITY PERFORMANCE ON MARKET

CANAL CONTRACTOR

OUTSTANDING PERFORMANCE EVEN IN 900 M/S IMPACT VELOCITY

20% MORE EFFECTIVE RANGE

A CENT SELECTION OF THE PERSON OF THE PERSON

TEST WINNING BULLET

Tested by several hunting magazines. Jäger (GER): "One of the best price - performance ratios". Wild & Hund (GER) 5/2017: "Excellent stopping effect with minimal meat loss"







true hunter is more than the end result."

The Lapua NATURALIS lead-free projectile is now in its third generation. Its original concept and design was introduced in 2002. It boasts devastating terminal performance and virtually 100% weight retention for deep penetration resulting in a clean, lead-free harvest of even large big game such as elk or moose.

.30 NATURALIS IN **ACTION**

.30 N558 11.0 g / 170 gr Naturalis®

Lapua has done extensive testing in calibrated gelatin at a wide range of impact velocities. This testing guarantees uniform, predictable performance under the broadest range of hunting conditions. Consistent mushrooming, reliable highest weight retention and excellent accuracy is assured.



791 m/s -> 11.0 g



908 m/s -> 10.9 g

A CLEAN, **ACCURATE SHOT**

The Naturalis, by design, begins to mushroom immediately upon impact. The expansion process begins with the bullet tip cavity which expands symmetrically and without fragmentation. This provides maximum energy transfer to the animal, minimizes the meat loss, and provides a quick and ethical

NATURALIS®

Hunting bullets and cartridges



.224

N566 3.2 g / 50 gr (NPL5001)



6 MM

N509 5.8 g / 90 gr (NPL6201)



6.5 MM

N563 9.1 g / 140 gr (NPL6203)



7 MM

N564 10.1 g / 155 gr (NPL7027)



.30

N558 11.0 g / 170 gr (NPL7105)



8 MM

N559 11.7 g / 180 gr (NPL8009)



.338

N508 15.0 g / 231 gr (NPL8020)



9.3 MM

N560 16.2 g / 250 gr (NPL9204)

EFFECTIVE RANGE

6.5x55 SE

7x64

.308 Win.

8x57 IS

9.3x62

DEER, ELK, BOARS OR BEARS

Whether you're hunting smaller game such as deer, boars or bear with tough hide, or large elk and moose, Lapua offers a wide range of cartridge options loaded with Lapua hunting bullets for your pursuit.

Lapua ammunition is precision loaded and optimized for every conceivable environment. From humid woods to dry hot deserts, or snow covered mountains, you can count on Lapua!

Lapua hunting cartridges are available loaded with NATURALIS, Mega, and FMJ bullets which have been designed and optimized for their end use. As you hone your shooting skills in preparation for your next hunt, you can count on Lapua ammunition to perform when it really matters. Lapua ammunition will meet or exceed your expectations, every time. The breadth of Lapua's ammunition offering will ensure that you will have what you need, regardless of the game or terrain.



.222 REMINGTON

The .222 Rem. round continuously enjoys a reputation for inherent accuracy, and it is today a popular small game and varmint cartridge at short and medium ranges. In Scandinavia the .222 Rem. became popular among capercaillie and black grouse hunters. It is accurate and reliable in all conditions. Lapua offers a perfect selection of factory loaded cartridges in this centerfire caliber.



.243 WINCHESTER

Lapua's 243 Winchester ammunition gives you a mild recoiling cartridge with top notch accuracy and a flat trajectory. In Scandinavia this hard-hitting cartridge has always been a preferred caliber of bird and medium size game hunters.

The Lapua ammunition selection for this caliber includes three different bullet styles: the FMJs, the Naturalis® and Soft Point.



hunting or competition, you will give no quarter to the game or your fellow competitors. A great universal choice for the all types of Scandinavian hunting possibilities with the straight trajectory, excellent ballistics and a huge bullet selection – for anything from grouse to moose.

MORE NATURALIS CARTRIDGES

 6.5 Creedmoor
 N563 9.1 g / 140 gr
 N316401

 6.5x47 Lapua
 N563 9.1 g / 140 gr
 N316301

 7x64
 N564 10.1 g / 155 gr
 N317322

 7x65R
 N564 10.1 g / 155 gr
 N317323

 .8x57 IS
 N559 11.7 g / 180 gr
 N318009

 8x57 IRS
 N559 11.7 g / 180 gr
 N318010

 .338 Lapua Mag.
 N508 15.0 g / 231 gr
 N318020

Photo: Niklas Scharffetter, JÄGER



.308 WINCHESTER

One of Lapua's flagship cartridges – the legendary .308 Winchester. For all types of hunting, the ammunition MUST do its job – without fail. Lapua does, no matter what the game, no matter what the conditions. This reliability makes Lapua the first choice for the vast majority of Scandinavian big game hunters, especially when loaded with our unbeatable Naturalis bullet. The Lapua .308 Winchester is an excellent choice when you need a cartridge that performs in any environment. Our uncompromising craftsmanship ensures match-grade quality for hunters and target shooters around the world.



.30-06 SPRINGFIELD

At over 100 years old, the .30-06 still displays the flexibility, reliability and performance that has made it one of the world's top hunting cartridges. No matter whether the game is hunted in the mountains or on wide open plains, the .30-06 Springfield meets the demands of big game hunting. Especially with heavy bullets, the .30-06 displays great versatility on large game, and is still a very popular hunting cartridge. The Lapua hunting ammunition selection for the .30-06 has four different rounds including the FMJ, the Mega and the Naturalis®.

9.3X62

The real big game cartridge for tough situations. The 9.3x62 rifle cartridge is an ideal choice for hunting large and dangerous game in tough conditions. Consistently increasing in popularity, the 9.3x62 round is one of the best solutions for moose and bear hunting but also for driven hunts of wild boars and other similar size game. Loaded with a premium quality bullet, it is suitable for all big game in Europe, North America and even in Africa. When pulling the trigger on the 9.3x62, there is no question of the power and effectiveness of this classic round.







MEGA FOR BIG GAME

Lapua Mega bullets are purpose-built and optimized for big game hunting. Mega bullets deliver accuracy, reliability and dependability in all situations.

PREDICTABLE PERFORMANCE

The Lapua Mega is a soft point bullet designed for big game hunting. It features a traditional lead-core and copper jacket that are bonded for maximum weight retention after impact and expansion. The Mega has a long jacket that protects the core and prevents premature expansion, or breakage, when the bullet travels through brush or grass cover.

The Mega's mechanical bonding locks the core firmly within the jacket and will not separate even on the hardest impact. It typically doubles its caliber width upon impact, causing an immediate shock effect, yet retains up to 97% of its original weight.

The Mega bullet family includes five bullets, available in 6.5mm, .30 caliber, and 9.3 mm. Ammunition loaded with the Mega is available for the most popular big game calibers used in the Scandinavian countries.



TOP FEATURES

- Very high weight retention
- Controlled penetration
- Controlled bullet expansion

AVAILABLE IN

- 6.5x55 SE
- .308 Win.
- .30-06 Spring.
- 9.3x62

Each hunting trip is its own, "once in a lifetime" experience. Trust Lapua Mega to guarantee success and provide you with fond and unforgettable outdoor memories.

Cartridges and bullets for

TARGET AND HUNTING PRACTICE

The precision of these bullets offers shooters the opportunity to practice with the same rifle that they hunt with. For avid hunters that enjoy target competitions, the performance of these projectiles can really make a difference.



NEW! 8 mm G573 7,8 g / 120 gr OT

For avid hunters that enjoy target competitions, the performance of this projectile can really make a difference. An easy and softly firing bullet that meets Lapua's strict accuracy requirements.



NEW!

9.3 mm G574 12,0 g / 185 gr OT

The world's most accurate Open Tip bullet for this caliber. The 9.3mm, 185 gr bullet is available as a reloading bullet for home loaders, yet Lapua also offers it as a factory-loaded cartridge for anyone for whom accuracy and performance matter when choosing a cartridge.



4PL5017 .224 S569 3,6 g / 55 gr FMJ 4PL6014 6.5 mm S341 6,5 g / 100 gr FMJ 4PL6000 6.5 mm B343 9,3 g / 140 gr FMJ 4PL7003 .30 S374 8,0 g / 123 gr FMJ 4PL7224 .30 G477 6,5 g / 100 gr OTCE 4PL7086 .30 B476 11,0 g / 170 gr FMJBT Lock

NEW!



8x57 IS

The 8x57 IS has earned a strong hunting image in recent years, but is now taking a step in the target shooting direction. A notable advantage of the new 120 gr OT bullet and the factory-loaded cartridge is that the bullet's point of impact coincides with the Lapua Naturalis, making both products ideal for hunting practice.

NEW!



9.3x62

The 9.3x62 has traditionally been used only with big game hunting in mind. Requirements have changed with time and today this rifle cartridge needs a bullet that offers a more diverse use of the caliber amongst hunters. Lapua has answered this demand and developed the world's most accurate Open Tip bullet for this caliber, which extends its use to a diverse set of options from practice shooting to small predator hunting. Also here, the impact point of resembles that of the Naturalis bullet, making this the ultimate round for hunters training for big game hunts.

MORE CARTRIDGES FOR THIS PURPOSE

4315021 .222 Rem S569 3,6 g / 55 gr FMJ 4315042 .223 Rem S569 3,6 g / 55 gr FMJ 4316052 .243 Win S561 5,8 g / 90 gr FMJ 4316033 6.5x55 SE S341 6,5 g / 100 gr FMJ 4317527 .308 Win S371 8,0 g / 123 gr FMJ 4317577 .30-06 S371 8,0 g / 123 gr FMJ

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CARTRIDGE DATA METRIC

CARTRI	DGES	- CENT	ERF	IRE	RIF	LE				• SPOI	RT •H	UNTI	NG •T	ACTIC	AL AN	IMUNIT	TION
Caliber	Product	Bullet name	Velocit	y [m/s]						Trajectory	[mm]						Test
	no.	Weight	Energy	[J]						Rifle	Impact	ooint abo	ove or be	low line	of sight (Scope 40	barrel
		Code] (Sidewir			i .		sighted in at [m]	mm abo		,				length [mm]
			0 m				600 m	800 m	1000 m						800 m	1000 m	
.222 Rem.	4315021	FMJ	880 1394	760	649 759	549				100 168 GEE	0 40	-132	-498 -378				600
(5.7x43)	NEW!	3,6 g / 55 gr S569	1394	1039 37	159	542 388				108 GEE	40	-52	-3/8				
	4315030	SP	880	713	574	461				100	0	-156	-615				600
	•	3,6 g / 55 gr	1394	916		382				300	205	254	0				
	N315025	E539 Naturalis	965	52 802	228 656	563 532				163 GEE 100	40	-76 -115	-494 -461				600
	14313023	3,2 g / 50 gr	1490	1030		293				176 GEE	40	-36	-342				000
222.5	4245042	N566	0	41	181	883	262			400		404	404	2440			660
.223 Rem.	4315042	FMJ 3,6 g / 55 gr	955 1642	828 1234	712 913	606 661	362 236			100 300	0 135	-104 165	-404 0	-3418 -2610			660
		S569	0	33	141	343	1782			181 GEE	39	-26	-286				
	N315026	Naturalis								100							
	NEW!	3,2 g / 50 gr N566								GEE							
	4315011	Scenar	850	762	680	604	405			100	0	-129	-469	-3445			510
	• •	4,5 g / 69 gr	1626	1307	1042	821	369			300	156	184	0	-2506			
	4245045	GB541	0	26	108	258	1251			600	574	1020	1253	0			F10
	4315015	Scenar-L 4,5 g / 69 gr	830 1550	744 1244		588 777	392 345			100 300	0 167	-138 196	-501 0	-3665 -2663			510
		GB544	0	26	112	266	1288			600	611	1083	1332	0			
.243 Win.	4316052	FMJ	885	796		634	434			100	0	-116	-425	-3122			610
(6.16x51)	• •	5,8 g / 90 gr S561	2271	1837 25	1472 104	1166 247	546 1187			300 176 GEE	142 39	168 -33	-290	-2272 -2672			
	N316201	Naturalis	910	776		241	1107			100	0	-124	230	2072			610
	•	5,8 g / 90 gr	2414	1756						167 GEE	37	-51					
	4316056	N509 SP	910	35 823	154 742	665				100	0	-105	-389				610
	4310030	6,5 g / 100 gr	2691	2203	1790	1439				300	130	154	-369				610
		E562	0	23	95	225				177 GEE	38	-30	-281				
6 mm BR Norma	4316044	Scenar-L	900	828	759	693	511			100	0	-103	-375	-2602			670
	•	5,8 g / 90 gr GB543	2349	1988 18		1392 180	758 838			300 600	125 434	148 765	926	-1852 0			
	4316046	Scenar	850	786	724	665	508	420	346	100	0	-118	-423	-2846	-6279	-11962	670
	•	6,8 g / 105 gr	2457	2100		1504	876	599	407	300	141	164	1000	-1999	-5150	-10551	
	4316047	GB478 Scenar-L	815	18 752	75 692	177 634	809 483	1574 398	2697 332	600 100	474	830 -134	1000 -473	-3160	-2484 -6970	-7218 -13287	670
	•	6,8 g / 105 gr	2258	1924		1368	792	539	374	300	158	182	0	-2213	-5708	-11709	
	4246047	GB542	0	19	80	189	862	1670	2845	600	527	919	1107	0	-2757	-8019	
6.5x47 Lapua	4316017	Scenar-L 7,8 g / 120 gr	845 2785	782 2382	720 2020	660 1699	499 970	407 645		100 300	0 144	-121 167	-432 0	-2909 -2045	-6452 -5300		660
		GB547	0	18		178	826	1622		600	485	849	1023	0	-2573		
	4316011	Scenar	850	792	736	681	532	444	362	100	0	-116	-412	-2720	-5919	-11138	660
	•	8,0 g / 123 gr GB489	2890 0	2510 16		1856 158	1133 716	787 1394	526 2409	300 600	137 453	159 791	948	-1896 0	-4819 -2292	-9763 -6603	
	4316016	Scenar-L	800	745		641	502	423	355	100	0	-137	-479	-3116		-12593	
	•	8,8 g /136 gr	2816	2444	2106	1806	1109	786	554	300	160	183	0		-5466	-10995	
	4316012	GB546 Scenar	820	17 769	72 719	168 671	759 539	1463 459	2478 386	600 100	519 0	902	1079 -439	-2822	-2589 -6031	-7399 -11115	
	•	9,0 g / 139 gr	3026	2662		2029	1308	950	670	300	146	168	0		-4859	-9650	
		GB458	0	15		146	653	1257	2143	600	470	815	971	0	-2268	-6411	
	N316301	Naturalis 9,1 g / 140 gr	807 2963	665 2010		450 922				100 150 GEE	0 44	-185 -97	-705 -573				660
		N563	0	53		565				130 GLL		31	-313				
6.5 Creedmoor	4316060	Scenar	850	792		681	532	444	362	100	0	-116	-412	-2720	-5919	-11138	
	• •	8,0 g / 123 gr GB489	2890 0	2510 16		1856 158	1133 716	787 1394	526 2409	300 600	137 453	159 791	0 948			-9763 -6603	
	4316063	Scenar-L	U	10	07	130	, 10	1334	2403	000	7.00	131	J40	U	2632	0003	600
	•	8,8 g / 136 gr															
	NEW! 4316401	GB546 Naturalis	780	641	525	435				100	0	-202	-763				600
	• 10401	9,1 g / 140 gr	2768	1869		862				145 GEE	38	-126	-649				000
		N563	0	56		583											
	4316064	Mega								100							600
	NEW!	10,1 g / 155 gr E471								GEE							
.260 Rem.	4316065	Scenar-L	809	754		649	509	429	360	100	0	-133	-466		-6567	-12259	
	• NIEVA/I	8,8 g / 136 gr	2880	2502		1852	1140	808	570	300	155	178	1051	-2102	-5324	-10704	
6.5x55 SE	NEW! 4316033	GB546 FMJ	830	24 713		224 510	1007	1958	3367	600 100	506	879 -194	1051 -656	0	-2521	-7200	600
5.57.55 JE	• •	6,5 g / 100 gr	2239	1654		845				300	219	244	0.00				000
	424.60==	S341	0	37	161	394				159 GEE	40	-75	-462	25.			
	4316035	Scenar 6,5 g / 100 gr	800 2080	730 1733		601 1176	433 610			100 300	0 170	-144 196	-509 0				740
	1	GB504	2000	22	94	223	1047			600	584	1024	1242	-2465			
	4316031	Scenar	900	833	767	703	532	431	341	100	0	-101	-368			-10865	
	•	7,0 g / 108 gr GB464	2835	2426 17		1732 167	989 773	650 1529	407 2690	300	123 420	145 740	0 893			-9637 -6659	
I		UD404	U	17	/ / /	10/	113	1529	2090	600	420	/40	093	U	-2254	-0009	1

CARTRI Caliber	Product	Bullet name	Velocit		NIF	LE						UNTIN	IG • T	ACTIC	AL AM	IMUNIT	Test
Camper	no.	Weight	Energy	,						Trajectory Rifle		ooint abo	ve or be	low line	of sight (Scope 40	barrel
		Code	Wind d	rift [mm]			ı	1	i	sighted in at [m]	mm abo	ve bore	ine)				length [mm]
C FWFF CF (comb)	4316038	Canani	0 m			300 m			1000 m						800 m	1000 m	
6.5x55 SE (cont.)	4316038	Scenar-L 7,8 g / 120 gr GB547	830 2687 0	767 2294 19	705 1941 78	647 1630 184	487 926 851	397 614 1672		100 300 600	0 151 506	-127 174 886	-452 0 1067	-3039 -2135 0	-6744 -5538 -2692		740
	4316039	Scenar-L 7,8 g / 120 gr GB547	920 3301 0	855 2849 16	791 2441 65	729 2072 154	557 1211 711	458 819 1397	371 538 2422	100 300 600	0 115 393	-95 136 692	-346 0 833	-2359 -1667 0	-5217 -4293 -2071	-9974 -8820 -6041	740
	4316032	Scenar 8,0 g / 123 gr	830 2756	773 2387	717 2054	663 1759	516 1066	429 736	350 489	100 300	0 146	-124 168	-438 0	-2880 -2004	-6271 -5103	-11822 -10361	740
	4316036	GB489 Scenar 8,0 q / 123 gr	920 3386	860 2961	70 802 2575	164 745 2223	745 588 1384	1452 495 979	2515 409 670	600 100 300	480 0 112	-92 132	-336 0	-2245 -1574	-2431 -4877 -3982	-7020 -9129 -8010	740
	4316040	GB489 Scenar-L	815	14 760	59 706	137 654	624	1212 433	2086 363	600 100	374 0	657	787 -458	-2982	-1884 -6453	-5387 -12042	740
	4216020	8,8 g /136 gr GB546	2923	2541 17	2194 69	1883 163	1161 737	824 1420	580 2408	300 600	153 497	175 864	1033	-2067 0	-5232 -2476	-10516 -7071	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
	N316102	Naturalis 9,1 g / 140 gr	800 2912	658 1973	540 1324					100 150 GEE	0 40	-189 -109					600
	4316021	N563 Mega 10,1 g / 155 gr	780 3072	704 2505	633 2022	566 1616				100 156 GEE	0 39	-198 -80	-640 -446				740
7x64	N317322	E471 Naturalis 10,1 g / 156 gr	840 3563	733 2714	634 2032	261 544 1493				100 163 GEE	0 40	-144 -63	-534 -413				600
7X65R	N317323	N564 Naturalis	840	34 733	144 634	349 544				100	0	-144	-534				600
7.62x39	4317235	10,1 g / 156 gr N564 FMJ	3563 0 715	2714 34 610	2032 144 511	1493 349 422				163 GEE 100	40	-63 -226	-413 -831				420
200 Win	4247527	8,0 g / 123 gr S405	2045	1487 45	1045 199	712 496				300 600	277	328	0				
308 Win. (7.62x51)	4317527	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 173 GEE	153 40	-121 185 -41	-460 0 -339				660
	4317498	Mega 9,7 g / 150 gr E469	850 3504 0	759 2794 27	675 2210 112	595 1717 269				100 300 168 GEE	0 159 40	-130 187 -50	-476 0 -359				660
	4317076	Scenar-L 10,0 g / 155 gr	860 3698	794 3151	730 2663	669 2235	503 1254	408 833	331 548	100 300	0 138	-115 161	-414 0	-2813 -1984	-6265 -5160		660
	4317515	GB552 Scenar 10,85 g / 167 gr	820 3648	754 3083	76 690 2579	180 628 2138	831 459 1144	1640 364 717	2857	100 300	469 0 157	-132 181	992 -470 0	-3212 -2271	-2515 -7258 -6003	-7418	660
	4317596	GB422 Lock Base	840	779	718	200 659	946 493	1899 390	310	600 100	535	938 -122	-435	-2924 -2954	-2975 -6522	-12765	660
	HPS • • • 43M7600	11,0 g / 170 gr B476 Lock Base	3881 0 744	3337 18 684	2839 77 626	2392 182 570	1338 855 411	1724	527 3103	300 600 100	145 487 0	168 852 -170	0 1027 -589	-2054 0 -3951	-8683		400
	SEMI AUTO • • N317105	11,0 g / 170 gr B476 Naturalis	3044 0 800	2575 23 717	2158 96 639	1788 228 566	931 1087	568 2228		300 600 100	196 658 0	223 1147 -151	0 1386 -543	-2772 0	-7391		660
	•	11,0 g / 170 gr N558	3520	2829 27	2243 115					159 GEE	40	-72	-545 -424				
	4317520	Scenar-L 11,3 g / 175 gr GB550	793 3553 0	733 3039 19	675 2577 80	619 2166 190	468 1239 879	833	323 588 2944	100 300 600	0 167 555	-143 191 968	-501 0 1165	-3332 -2329 0		-12415	660
	4317523	Scenar 12,0 g / 185 gr	755 3420	697 2911	640 2454	585 2052	438 1152	356 761	2311	100 300	0 188	-162 214	-563 0	-3735 -2609	-8288 -6787		660
	4317189	GB432 Mega 12,0 g / 185 gr	765 3511	677 2750	595 2124	207 519 1616	963	1898		600 100 151 GEE	622 0 39	1083 -174 -97	-627 -514	0	-3308		660
	4317590	E415 FMJBT	760	32 704	137 650	329 597	452			100	0	-157	-547	-3588			660
	4317340	12,0 g / 185 gr D46 FMJBT	3466 0 325	2974 20 309	2533 82 296	2141 193 284	1228 895			300 600 100	182 598 0	207 1039 -988	0 1247 -3097	-2495 0			410 1)
20.000	Subsonic	13,0 g / 200 gr B416	687 0	620 33	568 127	524 277				300 600	1033	1077	0				
30-06 Spring.	4317577	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 173 GEE	0 153 40	-121 185 -41	-460 0 -339				600
	N317106	Naturalis 11,0 g / 170 gr N558	830 3789	746 3060	666 2437	591 1919				100 165 GEE	0 40	-137 -56	-495 -375				600
	4317563	Mega 12,0 g / 185 gr	800 3837	710 3019	109 625 2344	260 547 1795				100 157 GEE	0	-155 -78	-561 -448				600
	4317567	E415 Mega 13,0 g / 200 gr	775 3892	30 693 3108	128 615 2453	307 543 1913				100 154 GEE	0 39	-165 -87	-589 -475				600
		E401	0	29	123	294						0,	.,,				

CARTRIDGE DATA METRIC

METR

CARTRII	UGES				KIF	LE				• SPO	RT •H				AL AN	1MUNI7	TIC
aliber	Product	Bullet name	Velocit	t y [m/s]									ctory [n				
	no.	Weight	Energy	, [J]						Rifle				low line	of sight (Scope 40	ŀ
		Code	Wind o	lrift [mm] (Sidewir	nd 4 m/s)				sighted in	mm abo	ove bore	line)				le
			0 m	100 m	200 m	300 m		800 m	1000 m	at [m]		200 m		600 m	800 m	1000 m	
00 Win Mag.	N317204	Naturalis	902	815	732	652	452			100	0	-108	-401				
	NEW!	11,0 g / 170 gr N558	4475 0	3654 26	2945 108	2339 258	1123 1249			300 178 GEE	134 40	159 -29	-282				
	4317312	Mega	830	736	649	568	1243			100	0	-142	-518				$^{+}$
	•	12,0 g / 185 gr	4130	3251	2525	1934				163 GEE	40	-62	-398				
	NEW!	E415	0	33	140	336											
	4317308	Scenar	930	866	805	745	576	476	388	100	0	-91	-334		-4963	-9426	
	NEW!	12,0 g / 185 gr GB432	5189 0	4505 18	3886 75	3330 174	1989 796	1360 1571	905 2746	300 600	111 376	132 662	796		-4073 -1951	-8313 -5660	
c57 IRS	N318010	Naturalis	800	718		566	790	13/1	2740	100	0	-151	-544		-1931	-3000	t
	•	11,7 g / 180 gr	3744	3013	2388	1873				159 GEE	40	-72	-425				
		N559	0	23	101	244											1
57 IS	4318029	OT 7.0 = / 120 ==	915	788	673	567	339			100	153	-119	-458				
	NEW!	7,8 g / 120 gr G573	3286 0	2439 37	1776 158	1263 387	451 2024			300 173 GEE	153 40	186 -40	-338				
	N318009	Naturalis	820	737	657	514	2024			173 GLL	0	-141	-510				t
	•	11,7 g / 180 gr	3934	3177	2527	1985				163 GEE	40	-61	-390				
		N559	0	26	110	264											
38 Lapua Mag.	N318020	Naturalis	920	835	753	674	473			100	125	-100	-374				
.6x70)	• •	15,0 g / 231 gr N508	6348 0	5233 21	4251 88	3410 211	1678 1014			300 178 GEE	125 40	149 -29	-280				
	4318017	Scenar	905	856	808	762	631	551	477	100	0	-93	-336		-4570	-8274	t
	• •	16,2 g / 250 gr	6634	5937	5294	4703	3225	2457	1840	300	112	131	0		-3674	-7155	
		GB488	0	12	48	112	495	944	1589	600	361	628	746	0	-1684	-4667	
	4318033	Lock Base	900	850	800	751	611	525	444	100	0	-95	-343		-4753	-8711	
	• •	16,2 g / 250 gr B408	6561 0	5846 12	5179 51	4563 119	3023 535	2230 1035	1600 1768	300 600	114 372	134 648	772		-3838 -1779	-7567 -4993	
	4318013	Scenar	830	789	750	712	605	539	478	100	0	-117	-407		-5231	-4993	_
	• •	19,4 g / 300 gr	6682	6038	5465	4917	3550	2818	2216	300	136	155	0		-4146	-7932	
		GB528	0	12	47	109	469	880	1457	600	421	725	855	0	-1865	-5082	
	43M8011	Lock Base	820	781	742	705	597	529	466	100	0	-121	-420		-5385	-9581	ľ
	• •	19,4 g / 300 gr	6522	5913	5345	4327	3456	2720	2105	300	140	159	0		-4264	-8180	
3x62	4319012	B557 OT	845	739	50 641	115 550	502 349	949	1584	600 100	435	748 -141	-523		-1925	-5246	+
JAU2	4319012	12,0 g / 185 gr	4284	3275	2462	1818	729			300	174	208	-525				
	NEW!	G574	0	36	155	374	1891			164 GEE	40	-61	-403				
	N319204	Naturalis	740	674	611	552				100	0	-176	-615				
	•	16,2 g / 250 gr	4436	3683	3027	2472				150 GEE	39	-98	-498				
	4210010	N560	0	25	104	247 473				100	0	222	702				+
	4319010	Mega 18,5 g / 285 gr	690 4404	612 3461	539 2688	2069				100 140 GEE	0 39	-223 -147	-783 -673				
		E433	0			357				140 GLL	33	147	0/3				
ACTIC	ΔΙ ζΔ	RTRIDG	iFS							1) NOTE: Requ	ired twist is	s 1 turn in 2	250 mm or	faster. Maxi	mum barrel	l length 450 i	mı
liber	Product no.	Bullet name	Velocity	[m/s]								Traid	ectory [m	nml			
	i roduce no.	Weight	Energy [J]						Rifle	Impact po			line of si	ght (Scope	40 mm	ĺ
		Code			nm] (Side				i.	sighted in	above bo	re line)	1				
			0 m	100 m	200 m	300 m	600 m	800 m	1000 m	at [m]	100 m	200 m	300 m	600 m	800 m	1000 m	
5 Creedmoor	43M6001	Armor Piercing	845														
		9,4 g / 145 gr	3356														
00 W:- /7 C2F1	NEW!	AP570	0	704	720	660	F02	400	224	100	0	115	41.4	2012	COCE	12100	L
08 Win. (7.62x51) 431/0/6	Scenar-L	860	794	730	669	503	408	331	100	0	-115	-414	-2813	-6265	-12106	
	1	10,0 g / 155 gr GB552	3698 0	3151 18	2663 76	2235 180	1264 831	833 1640	548 2857	300 600	138 469	161 822	0 992	-1984 0	-5160 -2515	-10726 -7418	
	4317598	Armor Piercing	860	790	722	593	478	373	2037	100	0	-118	-424	-2936	-6673	-/410	-
	.51,550	10,7 g / 165 gr	3957	3339	2786	1883	1221	743		300	141	165	0	-2088	-5541		
		AP492	0	23	97	430	1086	2203		600	489	861	1044	0	-2757		
	4317515	Scenar	820	754	690	628	459	364		100	0	-132	-470	-3212	-7258		Ħ
		10,85 g / 167 gr	3648	3083	2579	2138	1144	717		300	157	181	0	-2271	-6003		
		GB422	0	20	85	200	946	1899		600	535	938	1135	0	-2975		L
	4317596	Lock Base	840	779	718	659	493	390		100	0	-122	-435	-2924	-6522		
	HPS	11,0 g / 170 gr	3881	3337	2839	2392	1338	836		300	145	168	0	-2054	-5362		
	42117600	B476	0	18	77	182	855	1724		600	487	852	1027	0	-2623		L
	43M7600	Lock Base	744	684 2575	626	570	411	321		100	0	-170	-589	-3951	-8683 7201		
	SEMI-AUTO	11,0 g / 170 gr B476	3044 0	2575 23	2158 96	1788 228	931 1087	568 2228		300 600	196 658	223 1147	0 1386	-2772 0	-7391 -3694		
	4317520	Scenar-L	793	733	675	619	468	384		100	058	-143	-501	-3332	-3694 -7362		L
	4317320	5cenar-L 11,3 g / 175 gr	793 3553	3039	675 2577	2166	1239	384 833		300	167	191	-501	-3332	-7362 -6025		
		GB550	0	19	80	190	879	1720		600	555	968	1165	0	-2919		
	4317523	Scenar	755	697	640	585	438	356		100	0	-162	-563	-3735	-8288		H
	4317323	12,0 g / 185 gr	3420	2911	2454	2052	1152	761		300	188	214	-563	-3735 -2609	-8288 -6787		
		GB432	0	2911	88	2032	963	1898		600	622	1083	1304	0	-3308		
	N317105	Naturalis	800	717	639	566	505	.050		100	0	-151	-543	-	2300		H
		11,0 g / 170 gr	3520	2829	2243	1762				300	181	211	0				
		N558	0	27	115	276				333			-				
	4317590	D46	760	704	650	597	452	369		100	0	-157	-547	-3588	-7908		t
		12,0 g / 185 gr	3466	2974	2533	2141	1228	815		300	182	207	0	-2495	-6450		
	4317330	12,0 y / 103 yi							1								1
	4317330	D46	0	20	82	193	895	1772		600	598	1039	1247	0	-3123		
	4317340			20 309	82 296	193 284	895	1772		100	0	-988	-3097	0	-3123		
		D46	0				895	1772						0	-3123		

Caliber		Bullet name	Velocit													ctory [m					Test
	no.	Weight Code	Energy	[J] ind drift	[mm] /	idowine	1.4 m/c)					Rifle sighted in	Impact p	ooint abo	ve or be	low line o	of sight (S	Scope 40	mm abo	ve bore	barrel length
		Code	0 m	100 m	200 m			800 m	1000 m	1200 m	1500 m			200 m	300 m	600 m	800 m	1000 m	1200 m	1500 m	[mm]
.338	N318020	Naturalis	920	835	753	674	473	000 111	1000111	1200111	1300111	100	0	-100	-374	-2729	000 111	1000111	1200111	1300111	680
Lapua		15.0 g / 231 gr	6348	5233	4251	3410	1678					300	125	149	0	-1982					000
Mag. (8.6x70)		N508	0	21	88	211	1014					600	40	-29	-280	-2663					
(0.0X/U)	4318017	Scenar	905	856	808	762	631	551	477	409	328	100	0	-93	-336	-2164	-4570	-8274	-13721	-26585	680
		16,2 g / 250 gr	6634	5937	5294	4703	3225	2457	1840	1353	874	300	112	131	0	-1493	-3674	-7155	-12377	-24904	
		GB488	0	12	48	112	495	944	1589	2489	4392	600	361	628	746	0	-1684	-4667	-9390	-21168	
	4318033	Lock Base	900	850	800	751	611	525	444	372	310	100	0	-95	-343	-2231	-4753	-8711	-14679	-29281	680
		16,2 g / 250 gr	6561	5846	5179	4563	3023	2230	1600	1118	778	300	114	134	0	-1544	-3838	-7567	-13305	-27561	
		B408	0	12	51	119	535	1035	1768	2819	5012	600	372	648	772	0	-1779	-4993	-10214	-23695	
	4318035	Armor Piercing	905	848	794	741	595	509	431	363	308	100	0	-96	-346	-2282	-4901	-9046	-15324	-30594	680
		16,1 g / 248 gr	6593	5794	5069	4417	2851	2084	1496	1063	763	300	115	135	0	-1589	-3977	-7891	-13937	-28858	
		AP485	0	14	57	133	593	1138	1928	3038	5275	600	380	665	794	0	-1859	-5243	-10758	-24881	
	4318048	Armor Piercing	895	838	782	727	574	481	396	331	288	100	0	-100	-361	-2386	-5172	-9679	-16714	-34161	680
		Incendiary																			
		16,4 g / 253 gr	6568	5757	5014	4338	2699	1896	1288	900	682	300	120	140	0	-1665	-4210	-8476	-15271	-32354	
		API526	0	15	62	146	662	1292	2232	3562	6129	600	398	695	832	0	-1990	-5701	-11940	-28187	
	4318013	Scenar	830	789	750	712	605	539	478	422	349	100	0	-117	-407	-2524	-5231	-9289	-15073	-28084	680
		19,4 g / 300 gr	6682	6038	5465	4917	3550	2818	2216	1727	1181	300	136	155	0	-1710	-4146	-7932	-13444	-26046	
		GB528	0	12	47	109	469	880	1457	2245	3852	600	421	725	855	0	-1865	-5082	-10021	-21766	
	43M8055	Armor Piercing	830	787	746	705	591	522	459	401	331	100	0	-118	-413	-2583	-5391	-9647	-15737	-29738	680
		19,4 g / 300 gr	6682	6008	5398	4821	3388	2643	2044	1560	1063	300	138	157	0	-1757	-4289	-8270	-14090	-27678	
		AP529	0	13	53	123	536	1014	1685	2490	4010	600	431	743	878	0	-1946	-5342	-10587	-23297	
	43M8052	Armor Piercing	830																		
	NEW!	Incendiary																			
		19,4 g / 300 gr	6682																		
		API571	0																		

CARTRIDGE	S - CENTE	RFIRE HA	ANDO	UN							
Caliber	Product No.	Bullet type Weight	Velocity [m Energy [J]					Traje	ctory [mm]		Test barrel
	No.	Code	Wind drift	[mm] (Sid	ewind 4 m	ı/s)	Weapon sighted		above or belon above bore	ow line of sight line	length [mm]
			0 m	10 m	50 m	100 m	in at	10 m	50 m	100 m	
.32 S&W LWC	4318023	LWC 5,35 g / 83 gr C427	240 154 0	228 139 4	189 95 110	149 59 472	25 m 50 m 75 m	2 26 56	-116 0 154	-914 -681 -373	150
	4318026	LWC 6,35 g / 98 gr C356	240 183 0	232 170 3	202 130 77	171 93 320	25 m 50 m 75 m	2 23 50	-107 0 136	-799 -585 -313	150

Cartridge type Bullet weight	Product	Velocity [m	/s] (Note ba	rrel length)				Trajecto	ory [mm]		Test
Bullet weight [grams]	no.	Energy [J] Wind drift	[mm] (Sidew	ind 4 m/s)			Weapon sighted in at	line of sigh	nt above or l t nm above bo		barrel length [mm]
		0 m	2,5 m	10 m	50 m	100 m	[m]	10 m	50 m	100 m	
X-Act	420161	327	326	322	304	284	25	-17	-22	-267	660
2,59		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Midas +	420162	327	326	322	304	284	25	-17	-22	-267	660
2,59		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Center-X	420163	327	326	322	304	284	25	-17	-22	-267	660
2,59		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Pistol King	420164	285	284	281	266	247	25	-15	-41	-389	150
2,59		105	104	102	91	79	50	-6	0	-307	
		0	0	1	27	111	75	25	78	-169	
		270	269	266	251		25	-14	-50		120
		94	94	92	82		50	-4	0		
		0	0	1	29		75				
Pistol OSP	420165	280	279	276	261	243	25	-14	-44	-407	150
2,59		102	101	99	88	76	50	-6	0	-320	
		0	0	1	28	114	75	9	74	-171	
		265	264	261	247		25	-13	-54		120
		91	90	88	79		50	-2	0		
		0	0	1	30		75				
Polar Biathlon	420166	337	335	331	312	291	25	-17	-18	-249	550
2,59		147	146	142	126	109	50	-14	0	-212	
		0	0	1	25	100	75	-4	48	-116	
Biathlon Xtreme	420170	337	335	331	312	291	25	-17	-18	-249	550
2.59		147	146	142	126	109	50	-14	0	-212	
		0	0	1	25	100	75	-4	48	-116	

Ballistic coefficients are calculated by Quick Target Unlimited Lapua Edition from V_0 to V_{75} BC G1 for all Rimfire .22 LR bullets = 0.172

CARTRI	DGES	- CENT	ERF	IRE	RIF	LE				• SPOI	RT •H				AL AM	МИМІ	TION
Caliber	Product no.	Bullet name	Velocit	, - , -						D:tl	lm===t		ectory [in		f cialty /c	core	Test barrel
	110.	Weight Code	Energy Wind d		Sidewind	13 fns)				Rifle sighted in	Impact p		ve or belo e line)	ow line o	of sight (S	cope	length
		Code	0 yd		200 yd		600 yd	800 yd	1000 yd	at [yd]	100 yd		,	600 yd	800 yd	1000 yd	[in]
.222 Rem.	4315021	FMJ	2887	2525	2190	1882		,	,	100	0	-4	-15	,		,	24
(5.7x43)	NEW!	3,6 g / 55 gr S569	1028	786 1	592 5	437 13				184 PBR	2	-1	-10				
	4315030	SP	2887	2383	1954	1599				100	0	-5	-18				24
	•	3,6 g / 55 gr E539	1028	701 2	471 7	315 17				300 175 PBR	6 1,6	8 -1	0 -14				
	N315025	Naturalis	3166	2676	2230	1845				100	0	-3	-14				24
		3,2 g / 50 gr	1099	785	545	373				198 PBR	1,5	0	-9				
.223 Rem.	4315042	N566 FMJ	3133	1,3 2751	5,8 2399	14,3 2074	1289			100	0	-3	-12	-101			26
4	• • •	3,6 g / 55 gr	1211	933	710	531	205			300	4	5	0	-77			
	N315026	S569 Naturalis	0	1	5	11	56			198 PBR 100	1	0	-8	-93			
		3,2 g / 50 gr								PBR							
	NEW! 4315011	N566 Scenar	2789	2525	2277	2044	1430			100	0	-4	-14	-105			20
	4313011	4,5 g / 69 gr	1199	983	800	644	315			300	5	6	0	-76			20
	4245045	GB541	0	1	4	8	39			600	18	31	38	0			20
	4315015	Scenar-L 4,5 g / 69 gr	2723 1143	2463 935	2219 759	1990 611	1385 296			100 300	0 5	-4 6	-15 0	-112 -81			20
242.15		GB544	0	1	4	9	41			600	19	33	41	0			
.243 Win. (6.16x51)	4316052	FMJ 5,8 g / 90 gr	2905 1677	2637 1382	2384 1130	2146 915	1522 460			100 300	0 4	-3 5	-13 0	-95 -69			24
(0.10%31)		S561	0	1	3	8	37			192 PBR	1,5	0	-8	-81			
	N316201	Naturalis 5,8 g / 90 gr	2985 1780	2582 1332	2213 978					100 183 PBR	0 1,4	-4 -1					24
	•	N509	0	1 1 1	5					103 FBN	1,4	-1					
	4316056	SP 6,5 g / 100 gr	2985	2724	2479 1368	2246				100 300	0	-3 5	-12 0				24
		E562	1984	1653 1	3	1123				194 PBR	4 1,4	0	-8				
6 mm BR Norma	4316044	Scenar-L	2950	2733	2525	2325	1772			100	0	-3	-12	-81			26
	•	5,8 g / 90 gr GB543	1729	1485 1	1267 2	1074	624 27			300 600	13	5 24	0 29	-58 0			
	4316046	Scenar	2790	2598	2411	2232	1748	1472	1232	100	0	-4	-13	-88	-193	-362	26
	•	6,8 g / 105 gr GB478	1813	1572 1	1355	1161	712 26	505 50	354 84	300 600	4 15	5 26	0 31	-62 0	-158 -75	-319 -215	
	4316047	Scenar-L	2674	2485	2303	2128	1661	1396	1169	100	0	-4	-15	-98	-215	-403	26
	•	6,8 g / 105 gr GB542	1666	1439	1236	1055 6	643 27	454 53	319 89	300 600	5 16	6 29	0 34	-69 0	-175 -83	-354 -239	
6.5x47 Lapua	4316017	Scenar-L	2772	2582	2395	2215	1720	1433	03	100	0	-4	-13	-90	-198	-233	26
	•	7,8 g / 120 gr	2053	1781	1533	1311	790	549		300 600	4 15	5 26	0	-64 0	-163		
	4316011	GB547 Scenar	2790	2616	2446	2281	26 1826	51 1553	1301	100	0	-3	-13	-85	-78 -183	-339	26
	•	8,0 g / 123 gr	2134	1876	1640	1426	914	661	464	300	4	5	0	-59	-149	-297	
	4316016	GB489 Scenar-L	2625	2461	2300	2145	23 1720	44 1472	75 1284	600 100	14	25 -4	30 -15	-97	-70 -209	-198 -385	26
	•	8,8 g /136 gr	2077	1825	1595	1387	892	653	497	300	5	6	0	-68	-169	-336	
	4316012	GB546 Scenar	2690	2537	2387	5 2242	24 1839	46 1594	76 1366	600 100	16	28 -4	-14	-88	-79 -188	-223 -342	26
	•	9,0 g / 139 gr	2231	1985	1757	1550	1043	784	576	300	5	5	0	-61	-151	-297	
	N316301	GB458 Naturalis	2648	2219	1848	5 1549	21	40	67	600 100	15	-5,5	-21,4	0	-70	-195	26
	•	9,1 g / 140 gr	2186	1535	1064	748				165 PBR	1,6	-2,4	-21,4				20
6.5 Creedmoor	4316060	N563 Scenar	2790	2 2616	7 2446	18 2281	1826	1553	1301	100	0	-3	-13	-85	-183	-339	24
0.5 Creedmoor	4316060	Scenar 8,0 g / 123 gr	2134	1876		1426	914	661	464	300	4	5	-13	-85 -59	-183 -149	-339 -297	24
	4210002	GB489	0	1	2	5		44	75	600	14	25	30	0	-70	-198	-
	4316063	Scenar-L 8,8 g / 136 gr								100 300							24
	NEW!	GB546	2550	2426	4700	4.40=				600			22.2				2.4
	4316401	Naturalis 9,1 g / 140 gr	2559 2042	2139 1427	1783 991	1497 699				100 160 PBR	0 1,6	-6,1 -2,9	-23,2 -18				24
		N563	0	2	8						.,0	_,-					
	4316064	Mega 10,1 g / 155 gr								100 PBR							24
	NEW!	E471															
.260 Rem.	4316065	Scenar-L 8,8 g / 136 gr	2654 2124	2489 1868	2328 1633	2171 1421	1743 916	1492 671	1273 488	100 300	0 4,8	-4,0 5,6	-14 0	-95 -66	-204 -165	-375 -327	24
	NEW!	GB546	0	1	3	7	32	62	106	600	16	28	33	0	-77	-217	
6.5x55 SE	4316033	FMJ	2725	2374	2049					100	0	-5 7	-17				29
	••	6,5 g / 100 gr S341	1649 0	1251 1	932	682 13				300 174 PBR	6 1,6	7 -2	0 -13				
	4316035	Scenar	2620	2411	2211	2021	1506			100	0	-4	-16	-109			29
	•	6,5 g / 100 gr GB504	1529	1294 1	1088	909	505 33			300 600	5 18	6 32	0 39	-77 0			
	4316031	Scenar	2950	2748	2550	2358	1832	1521	1238	100	0	-3	-11	-78	-173	-328	
	•	7,0 g / 108 gr GB464	2087	1811	1560 2	1333	805 25	555 48	367 83	300 600	13	5 23	0 28	-56 0	-142 -68	-290 -197	
		- POPUD	U	-			23	40	03	000	13	23	20	U	-00	-13/	

CARTRI					RIF	LE				• SPO	RT •HI				AL AM	MUNIT	
Caliber	Product no.	Bullet name Weight Code	Velocity Energy [Wind dr	ftlbs.]	Sidewind	13 fps)				Rifle sighted in	Impact p	oint abov		-	of sight (S	Scope	Test barrel length [in]
				•	200 yd		,	,	1000 yd	at [yd]	100 yd			-		1000 yd	
6.5x55 SE (cont.)	4316038	Scenar-L 7,8 g / 120 gr GB547	2723 1981 0	2534 1715 1	1474 3	2170 1258 6	1681 755 27	1399 523 53	4225	100 300 600	0 5 16	-4 5 28	-14 0 33	-94 -66 0	-207 -170 -81	202	29
	4316039	Scenar-L 7,8 g / 120 gr GB547	3018 2434 0	2822 2128 1	1849 2	2443 1595 5	1919 984 23	1609 692 44	1335 476 76	100 300 600	0 4 12	-3 4 22	-11 0 26	-73 -52 0	-160 -132 -63	-302 -267 -180	29
	4316032	Scenar 8,0 g / 123 gr GB489	2720 2028 0	2548 1779 1	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
	4316036	Scenar 8,0 g / 123 gr GB489	3015 2492 0	2836 2204 0	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
	4316040	Scenar-L 8,8 g /136 gr GB546	2674 2156 0	2509 1897 1	1660 2	2190 1445 5	1759 933 24	1506 684 45	1285 498 76	100 300 600	0 5 16	-4 6 27	-14 0 32	-93 -65 0	-200 -162 -76	-369 -321 -213	29
	4316030	Scenar 9,0 g / 139 gr GB458	2625 2125 0	2473 1886 1	1667 2	2183 1469 5	1786 983 23	1545 736 44	1332 547 71	100 300 600	0 5 16	-4 5 27	-15 0 33	-94 -62 0	-200 -152 -74	-365 -298 -208	24
	N316102	Naturalis 9,1 g / 140 gr N563	2625 2148 0	2198 1506 2		1535 735 17				100 165 PBR	0 1,6	-6 -2,0					29
	4316021	Mega 10,1 g / 155 gr E471	2560 2254 0	2332 1871 1	2116 1540 4	1912 1257 8				100 171 PBR	0 1,6	-5 -2	-17 -13				24
7x64	N317322	Naturalis 10,1 g / 156 gr N564	2756 2628 0	2434 2050 0	2135 1577	1858 1194 11				100 173 PBR	0 1,6	-4 -1	-16 -12				24
7X65R	N317323	Naturalis 10,1 g / 156 gr N564	2756 2628 0	2434 2050 0	2135 1577	1858 1194 11				100 173 PBR	0 1,6	-4 -1	-16 -12				24
7.62x39	4317235	FMJ 8,0 g / 123 gr S405	2345 1507 0	2031 1131 1	1735 825 6	1463 586 16				100 300	0	-7 10	-25 0				16,5
.308 Win. (7.62x51)	4317527	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268	1955 1048 10				100 300 189 PBR	0 5 1,5	-4 6 -1	-14 0 -9				26
	4317498	Mega 9,7 g / 150 gr E469	2790 2592 0	2517 2110 1	2261	2019 1357 9				100 300 184 PBR	0 5 1,6	-4 6 -1	-15 0 -10				26
	4317076	Scenar-L 10,0 g / 155 gr GB552	2820 2725 0	2621 2354 1	2428	2243 1723 6	1735 1031 26	1439 710 52	1182 478 89	100 300 600	0 4 15	-3 5 26	-10 -13 0 31	-87 -62 0	-192 -158 -76	-365 -323 -220	26
	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	83	100 300 600	0 5 17	-4 6 29	-15 0 35	-99 -70 0	-221 -183 -89	-220	26
	4317596 HPS	Lock Base 11,0 g / 170 gr B476	2756 2867 0	2573 2498 1	2391	2213 1848 6	1708 1101 27	1393 733 54	1103 459 95	100 300 600	0 4 15	-4 5 27	-13 0 32	-91 -64 0	-200 -164 -79	-382 -337 -231	16
	43M7600 SEMI AUTO	Lock Base 11,0 g / 170 gr B476	2441 2245 0	2262 1928 1	2087	1918 1386 7	1436 777 34	1139 489 69	93	100 300 600	0 6 20	-5 7 36	-18 0 43	-123 -86 0	-79 -274 -225 -110	-231	26
	N317105	Naturalis 11,0 g / 170 gr	2625 2596	2376 2128 1	2138	1916 1383 9	1368 706	1124 476	1007 382 133	100 174 PBR	0 2	-5 -1	-17 -12	-120 -111	-277 -265	-543 -528	26
	4317520	N558 Scenar-L 11,3 g / 175 gr GB550	2602 2621 0	2423 2273 1	2248	2078 1672 6	1615 1010 28	1350 705 54	1125 490 93	100 300 600	0 5 17	-4 6 30	-16 0 36	-104 -73 0	-226 -185 -88	-426 -375 -254	26
	4317523	Scenar 12,0 g / 185 gr	2475 2518 0	2299 2174 1	2128	1962 1583 7	1512 940 32	1254 647	93	100 300 600	0 6 20	-5 7 34	-18 0 41	-116 -82	-256 -209	-234	26
	4317189	GB432 Mega 12,0 g / 185 gr	2690 2901	2441 2388	2200 1940	1972 1559	52	62		100 165 PBR	0 1,6	-5 -2	-19 -15	U	-100		26
	4317590	E415 FMJBT 12,0 g / 185 gr	2490 2549	2322 2216	1916	2000 1645	1558 998	1296 690		100 300	0 6	-5 7	-17 0	-112 -78	-244 -199		16
	4317340 Subsonic	D46 FMJBT 13,0 g / 200 gr	1066 506	1017 461	425	941 394	28	56		100 300	19 0 33	-32 35	-100 0	0	-95		24
.30-06 Spring.	4317577	B416 FMJ 8,0 g / 123 gr	2935 2361	2594 1845	1410	1955 1048				100 300	0 5	-4 6	-14 0				24
	N317106	S374 Naturalis 11,0 g / 170 gr	2723 2795	2470 2300	1871	10 1999 1506				189 PBR 100 180 PBR	1,5 0 1,5	-1 -4 -1	-9 -15 -11				24
	4317563	N558 Mega 12,0 g / 185 gr	2625 2831	2353 2275	2098 1808	1859 1420				100 172 PBR	0 1,6	-5 -1	-17 -13				24
	4317567	E415 Mega 13,0 g / 200 gr E401	2545 2876 0	2297 2342 1		10 1843 1508 9				100 168 PBR	0 1,6	-5 -2	-18 -14				24

CARTRIDGE DATA IMPERIAL

CARTRII	DGES	- CENTI	ERF	IRE	RIF	LE				• SPOI	RT • F	IUNTII	NG •1	TACTIC	AL AN	1MUNI	TIO
aliber	Product	Bullet name	Veloci	ty [fps]								Traj	ectory	[in]			Te
	no.	Weight		/ [ftlbs.]						Rifle				elow line	of sight (Scope	bai
		Code	Wind o	drift [in] (sighted in		bove bor	,				len [i
			0 yd				600 yd	800 yd	1000 yd	at [yd]					800 yd	1000 yd	
300 Win Mag.	N317204	Naturalis 11,0 g / 170 gr	2959 3300			2205 1833	1579 940			100 300	0 4,1	-3,2 5,0					2
	NEW!	N558	0 3300		4	1033	40			195 PBR	1,5	-0,2	-7,8				
	4317312	Mega	2723		2177	1929				100	0	-4,3	-16	5			2
	NEW!	12,0 g / 185 gr E415	3046		2256					178 PBR	1,6	-1,2	-11				
	4317308	Scenar	3051	2860		2494	1979	1670	1392	100	0	-2,7	-10	-70	-153	-286	2
	• •	12,0 g / 185 gr	3828			2557	1611	1146	797	300	3,4	4,1	0			-252	
x57 IRS	NEW! N318010	GB432 Naturalis	2625		2140	1916	26	50	86	600 100	12	-3,5	25 -14		-59	-169	2
X37 IK3	•	11,7 g / 180 gr	2762			1471				300	4,6		-14				4
		N559	0	1	4	17				190 PBR	1,5	-0,5					
x57 IS	4318029	OT 7,8 g / 120 gr	3002 2424			1946 1019				100 178 PBR	0 1,5		-17 -11				2
	NEW!	G573	2424		1303	1019				170 PDR	1,5	-1	-11				
	N318009	Naturalis	2690	2440	2200	1972					0		-510				2
	•	11,7 g / 180 gr	2901	2387	1939	1559				163 GEE	40	-61	-390)			
338 Lapua Mag.	N318020	N559 Naturalis	3018		2515	16 2276	1651			100	0	-3	-11	-83			2
3.6x70)	• •	15,0 g / 231 gr	4681	3925		2663	1401			300	4		0	-61			-
	4210017	N508	2070		3	7	32	1000	1000	200 PBR	1	0				250	2
	4318017	Scenar 16,2 g / 250 gr	2970 4896			2539 3579	2141 2545	1896 1994	1666 1540	100 300	0					-258 -223	
		GB488	0	0	2	4	16	30	50	600	11	20	24	0	-52	-143	
	4318033	Lock Base	2953			2504	2080	1816	1568	100	0					-268	
	• •	16,2 g / 250 gr B408	4896			3479 4	2401 17	1831 33	1365 55	300 600	12	4 20	24			-233 -152	
	4318013	Scenar	2690			2337	2015	1816	1629	100	0	-4				-300	
	• •	19,4 g / 300 gr	4821	1395	4001	3638	2704	2196	1767	300	4		0	-56	-135	-257	
	43M8011	GB528 Lock Base	2690			2343	15 2017	28 1812	46 1616	600 100	14					-163 -300	
	43100011	19,4 g / 300 gr	4811			3650	2704	2181	1736	300	4		0			-256	
		B557	0			4	16	30	50	600	14	24			-60	-163	
.3x62	4319012	OT 12,0 g / 185 gr	2772 3160			1879 1452				100 300	0 5,3	-4,2 6,4	-16 0				
	NEW!	G574	0		1909	1432				179 PBR	1,6		-11				
	N319204	Naturalis	2428		2040	1861				100	0	-5	-19)			
	•	16,2 g / 250 gr	3272		2310	1922				164 PBR	1,6	-2	-14	1			
	4319010	N560 Mega	2265		1809	1606				100	0	-7	-24	1			1
	•	18,5 g / 285 gr	3246	2606	2071	1632				153 PBR	1,6						
		E433	0	1	5	11				1) NOTE: Requ	for all to order to	. 4	10" (
TACTICA	<u> LL CA</u>		ES							NOTE. Requ	iiieu twist i	S I LUIII III	IU UI IdSt	ei. Maxiiilui	ii barrer ieri	yui io .	
aliber	Product no.	Bullet name	Velocity Energy [[fps]						D:(I			ectory [l		1 . /6	4.6.	T ba
		Weight Code	Crosswir	i tibs.j id drift [ii	n] (Sidewi	ind 13 fp	s)			Rifle sighted in			e or belov	v line of si	ght (Scope	e 1.6 in	le
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd				300 yd	600 yd	800 yd.	1000 yd	[i
5 Creedmoor	43M6001	Armor Piercing	2772												•		
		9,4 g / 145 gr	2475														
308 Win. (7.62x51)	NEW!	AP570 Scenar-L	0 2820	2621	2428	2243	1735	1439	1182	100	0	-3	-13	-87	-192	-365	
308 WIN. (7.62X51)	4317076	10,0 g / 155 gr	2725	2354	2020	1723	1031	710	478	300	4	-3 5	-13	-67 -62	-192 -158	-305	
		GB552	0	1	2	6	26	52	89	600	15	26	31	0	-76	-220	
	4317598	Armor Piercing	2820	2610	2404	2205	1660	1336		100	0	-4	-13	-91	-203	-380	
		10,7 g / 165 gr	2915	2497	2119	1782	1010	654		300	4	5	0	-65	-168	-352	
	4317515	AP492	0	1	3	7	34	69		600	15	27	-15	-99	-82	-244	
	431/313	Scenar 10,85 g / 167 gr	2690 2690	2491 2307	2297 1962	2110 1656	1595 945	1295 623		100 300	0 5	-4 6	-15	-99 -70	-221 -183		
		GB422	0	1	3	6	30	59		600	17	29	35	0	-89		
	4317596	Lock Base	2756	2573	2391	2213	1708	1393		100	0	-4	-13	-91	-200		
	HPS	11,0 g / 170 gr	2867	2498	2157	1848	1101	733		300	4	5	0	-64	-164		
	43M7600	B476 Lock Base	0 2441	1 2262	2087	6 1918	27 1436	54 1139		600 100	15 0	27 -5	32 -18	-123	-79 -274		
	SEMI-AUTO	11,0 g / 170 gr	2245	1928	1642	1386	777	489		300	6	7	0	-86	-225		
		B476	0	1	3	7	34	69		600	20	36	43	0	-110		
	4317520	Scenar-L	2602	2423	2248	2078	1615	1350		100	0	-4	-16	-104	-226		
		11,3 g / 175 gr	2621	2273	1957	1672	1010	705		300	5	6	0	-73	-185		
	424777	GB550	0	1	3	6	28	54		600	17	30	36	0	-88		
	4317523	Scenar	2475	2299	2128	1962	1512	1254		100	0 6	-5 7	-18 0	-116 91	-255		
		12,0 g / 185 gr GB432	2518 0	2174 1	1861 3	1583 7	940 31	647 60		300 600	19	7 34	41	-81 0	-208 -100		
	N317105	Naturalis	2625	2376	2138	1916	31	00		100	0	-5	-17	U	-100		
		11,0 g / 170 gr	2596	2128	1723	1383				300	-6	1	0				
		N558	0	1	4	9											
	4317590	D46	2490	2322	2159	2000	1558	1296		100	0	-5	-17	-112	-244		
		12,0 g / 185 gr D46	2549 0	2216	1916	1645	998	690 56		300	6	7	0	-78 0	-199 os		
				1	3	6	28	56		600	19	33	39	0	-95		
	43173/10				977	9/11				100	Ω	-37	-100				1
	4317340	Subsonic 13,0 g / 200 gr	1066 506	1017 461	977 425	941 394				100 300	0 33	-32 35	-100 0				

Caliber	Product	Bullet name	Velocity	y [fps]												ctory [in					Test
	no.	Weight Code	Energy Crossw	[ftlbs.] ind drift	[in] (Sic	lewind 9	mph)					Rifle sighted in	line)				of sight (•			barre
			0 yd	100 yd		300 yd		800 yd	1000 yd	1200 yd	1500 yd	at [yd]	100 yd	200 yd	300 yd		800 yd	1000 yd	1200 yd	1500 yd	[incl
338	N318020	Naturalis	3018	2764	2515	2276	1651					100	0	-3	-11	-83					27
Lapua Mag.		15,0 g / 231 gr	4681	3925	3251	2663	1401					300	4	5	0	-61					
(8.6x70)		N508	0	1	3	7	32					600	1	0	-7	-75					
,	4318017	Scenar	2970	2823	2680	2539	2141	1896	1666	1453	1171	100	0	-3	-10	-68	-143	-258	-420	-797	27
		16,2 g / 250 gr	4896	4424	3985	3579	2545	1994	1540	1172	761	300	3	4	0	-47	-116	-223	-379	-746	
		GB488	0	0	2	4	16	30	50	78	136	600	11	20	24	0	-52	-143	-285	-628	
	4318033	Lock Base	2953	2802	2652	2504	2080	1816	1568	1338	1068	100	0	-3	-11	-70	-148	-268	-446	-868	27
		16,2 g / 250 gr	4896	4356	3902	3479	2401	1831	1365	994	633	300	4	4	0	-49	-120	-233	-404	-815	
		B408	0	0	2	4	17	33	55	87	156	600	12	20	24	0	-55	-152	-306	-693	
	4318035	Armor Piercing	2970	2800	2635	2475	2030	1764	1520	1302	1061	100	0	-3	-11	-73	-153	-279	-464	-907	27
		16,1 g / 248 gr	4866	4324	3829	3379	2274	1716	1275	935	621	300	4	4	0	-50	-124	-244	-422	-854	
		AP485	0	0	2	4	19	36	61	95	166	600	12	21	25	0	-57	-159	-322	-729	
	4318048	Armor Piercing	2936	2765	2597	2432	1964	1679	1415	1304	1064	100	0	-3	-11	-74	-160	-296	-502	-1006	27
		Incendiary																			
		16,4 g / 253 gr	4845	4295	3788	3323	2168	1584	1125	955	636	300	4	4	0	-52	-131	-259	-457	-951	
		API526	0	0	2	5	21	41	70	94	164	600	12	22	26	0	-61	-172	-353	-820	
	4318013	Scenar	2723	2600	2482	2367	2042	1842	1653	1477	1242	100	0	-4	-13	-80	-165	-291	-468	-858	27
		19,4 g / 300 gr	4934	4499	4100	3728	2775	2258	1818	1452	1027	300	4	5	0	-54	-131	-249	-417	-795	
		GB528	0	0	2	4	15	28	46	71	121	600	13	23	27	0	-58	-158	-309	-659	
	43M8055	Armor Piercing	2723	2595	2470	2347	2000	1788	1591	1411	1171	100	0	-4	-13	-81	-169	-301	-486	-903	27
		19,4 g / 300 gr	4934	4481	4060	3666	2662	2128	1685	1325	913	300	4	5	0	-56	-135	-258	-435	-839	
		AP529	0	0	2	4	17	32	54	78	133	600	14	24	28	0	-61	-165	-324	-700	
	43M8052	Armor Piercing	2723																		
	NEW!	Incendiary																			
		19,4 g / 300 gr	4934																		
		API571	0																		

CARTRIDGES - CENTERFIRE HANDGUN													
Caliber	Product No.	Bullet type Weight	Velocity [fps] Trajectory [inch] Energy [ftlbs.]								Test barrel		
	NO.	Code	Wind drift	Wind drift [in.] (Sidewind speed 13 fps)				Impact point Sights 0.8 in	length [inch]				
			0 yd.	10 yds.	50 yds.	100 yds.	in at	25 yds.	50 yds.	100 yds.			
.32 S&W LWC	4318023	LWC	787	748	630	508	25 yds.	0	-3.7	-29.0			
		5,35 q / 83 gr	114	103	73	47	50 yds.	1.9	0	-21.7	6		
		C427	0	0.2	3.7	15.5	75 yds.	4.3	4.9	-11.8			
	4318026	LWC	787	760	672	577	25 yds.	0	-3.4	-25.6			
		6,35 g / 98 gr	135	125	98	72	50 yds.	1.7	0	-18.8	6		
		C356	0	0.1	2.6	10.6	75 vds.	3.9	4.4	-10.1			

CARTRIDGES -	<u>RIMFIRE RI</u>	FLE A	ND PI	STOL	_		Trajectory ta	bles recalcul	ated with D	oppler based	l radar dat
Cartridge type Bullet weight [grains]	Product no.	Energy [ftII] (Note barrel bs.] n] (wind 13 fp	J ,			Weapon sighted	Impact point sight Sights	Test barrel length		
		0 yd	2.5 yd	10 yd	50 yd	100 yd	in at [yd]	10 yd	50 yd	100 yd	[in]
X-Act 40	420161	1073 102 0	1069 101 0	1059 99 0	1006 90 0,8	944 79 3,1	25 50 75	-0,7 -0,6 -0,3	-0,4 0 1,6	-7,8 -7,0 -3,9	26
Midas + 40	420162	1073 102 0	1069 101 0	1059 99 0	1006 90 0,8	944 79 3,1	25 50 75	-0,7 -0,6 -0,3	-0,4 0 1,6	-7,8 -7,0 -3,9	26
Center-X 40	420163	1073 102 0	1069 101 0	1059 99 0	1006 90 0,8	944 79 3,1	25 50 75	-0,7 -0,6 -0,3	-0,4 0 1,6	-7,8 -7,0 -3,9	26
Pistol King 40	420164	935 78 0	931 77 0	923 76 0	878 68 0,9	824 60 3,5	25 50 75	-0,7 -0,4 0,0	-1,1 0 2,2	-11,8 -9,7 -5,3	5,9
		886 70 0	883 69 0	875 68 0	831 61 0,9		25 50 75	-0,6 -0,3	-1,4 0		4,7
Pistol OSP 40	420165	919 75 0	916 74 0	907 73 0	863 66 0,9	809 58 3,6	25 50 75	-0,6 -0,4 0,1	-1,1 0 2,3	-12,4 -10,1 -5,5	5,9
		869 67 0	866 67 0	858 65 0	815 59 0,9		25 50 75	-0,6 -0,3	-1,5 0		4,7
Polar Biathlon 40	420166	1106 109 0	1101 108 0	1089 105 0	1031 94 0,8	966 83 3,3	25 50 75	-0,7 -0,7 -0,4	-0,3 0 1,5	-7,2 -6,6 -3,7	21,7
Biathlon Xtreme 40	420170	1106 109 0	1101 108 0	1089 105 0	1031 94 0,8	966 83 3.3	25 50 75	-0,7 -0,7 -0,4	-0,3 0 1,5	-7,2 -6,6 -3,7	21,7

	Product No.	Designation	Product No.	Bullet name	Product code	Туре	Bullet diame		Weigh	t	Ballistic coeffi-	Ballistic coeffi-	
								Τ.			cient	cient	4
							mm	in	g	grs	BC G1	BC G7	
5.69 mm (.224)	4 PH 5002	.222 Rem.	4 PL 5006	Soft Point	E539	SP	5.69	.224	3.60	55	0.185		
	4 PH 5003	.223 Rem.	4 PL/HL 5017	FMJ NEW!	S569	FMJ	5.69	.224	3.60	55	0.255		_
	4 PH 5013	.220 Russian	4 PL/HL 5015	Scenar-L	GB544	OTM	5.69	.224	4.50	69	0.341	0.171	_
	4 PH 5001	.22-250 Rem.	4 PL/HL 5016	Scenar-L	GB545	OTM	5.69	.224	5.00	77	0.386	0.193	_
	4 PH 5004	.221 Rem. Fireball	N PL 5001	Naturalis	N566	CEX	5.69	.224	3.20	50	*		_
5 mm (.243)	4 PH 6009	.243 Win.	N PL 6201	Naturalis	N509	CEX	6.16	.243	5.80	90	0.230		_
	4 PH 6022	6 mm Creedmoor	4 PL/HL 6055	Scenar-L	GB543	OTM	6.18	.243	5.80	90	0.434	0.216	_
	4 PH 6046	6 mm BR Norma	4 PL/HL 6050	Scenar-L	GB542	OTM	6.18	.243	6.80	105	0.472	0.236	_
.5 mm (.264)	4 PH 6012	6.5 x 55 SE	4 PL/HL 6014	FMJ	S341	FMJ	6.71	.264	6.50	100	0.250		_
	4 PH 6030	6.5 - 284	4 PL/HL 6015	FMJ Cutting Edge	S496	FMJCE	6.71	.264	6.50	100	0.250		_
	4 PH 6010	6.5 x 47 Lapua	4 PL/HL 6033	Scenar	GB504	OTM	6.71	.264	6.50	100	0.424	0.212	_
	4 PH 6020	6.5 Grendel	4 PL/HL 6020	Scenar	GB464	OTM	6.71	.264	7.00	108	0.465	0.231	_
	4 PH 6050	.260 Rem.	4 PL/HL 6032	Scenar	GB489	OTM	6.71	.264	8.00	123	0.527	0.263	-
	4 PH 6011	6.5 Creedmoor	4 PL/HL 6021	Scenar-L	GB547	OTM	6.71	.264	7.80	120	0.497	0.246	_
NEV	V! 4 PH 6023	6.5 PRC	4 PL/HL 6019	Scenar-L	GB546	OTM	6.71	.264	8.80	136	0.545	0.274	_
			4 PL/HL 6018	Scenar	GB458	OTM	6.71	.264	9.00	139	0.578	0.290	_
			4 PL/HL 6000	FMJ	B343	FMJBT	6.71	.264	9.30	144	0.636		_
			N PL 6203	Naturalis	N563	CEX	6.71	.264	9.10	140	0.201		-
			4 PL 6010	Mega	E471	SP	6.71	.264	10.10	155	0.377		_
7 mm (.284)	4 PH 7095	7 mm-08 Rem.	4 PL/HL 7400	Scenar-L	GB553	OTM	7.21	.284	9.70	150	0.526	0.260	-
	4 PH 7105	7 x 64	4 PL/HL 7401	Scenar-L	GB554	OTM	7.21	.284	11.70	180	0.661	0.332	-
	4 PH 7107	7 x 65R	N PL 7027	Naturalis	N564	CEX	7.21	.284	10.10	156	0.280		-
7.62 mm (.308)	4 PH 7217	.308 Win.	4 PL/HL 7224	OT Cutting Edge	G477	OTCE	7.83	.308	6.50	100	0.170		-
	4 PH 7215	7.62 x 53R	4 PL/HL 7003	FMJ	S374	FMJ	7.83	.308	8.00	123	0.270	0.000	_
	4 PH 7226	.308 Win. Palma	4 PL/HL 7063	Scenar-L	GB552	OTM	7.83	.308	10.00	155	0.460	0.230	_
NE	4 PH 7090	.300 Norma Mag.	4 PL/HL 7069	Scenar	GB422	OTM	7.83	.308	10.85	167	0.446	0.223	-
	V! 4 PH 7284	.284 Win.	4 PL/HL 7061	Scenar-L	GB550	OTM	7.83	.308	11.30	175	0.490	0.247	-
	V! 4 PH 7096	.300 Win Mag.	4 PL/HL 7071	Scenar	GB432	OTM	7.83	.308	12.00	185	0.482	0.242	_
NE	V! 4 PH 7098	.300 PRC	4 PL/HL 7062	Scenar-L	GB551	OTM	7.83	.308	14.30	220	0.647	0.324	-
			4 PL/HL 7086	Lock Base	B476	FMJBT	7.83	.308	11.00	170	0.498	0.249	-
			4 PL/HL 7019	D46	D46	FMJBT	7.83	.308	12.00	185	0.506	0.254	-
			4 PL 7060	Subsonic	B416	FMJBT	7.83	.308	13.00	200	0.518	0.235	-
			4 PL 7057	Mega	E469	SP	7.83	.308	9.72	150	0.330		-
			4 PL 7213	Mega	E415	SP SP	7.83	.308	12.00	185	0.319		-
			4 PL 7047	Mega Naturalis	E401		7.83	.308	13.00	200	0.344	0 177	-
/ 62 mm / 210\			N PL 7105		N558	CEX	7.83	.308	11.00	170	0.354	0.177	-
7.62 mm (.310)	4 PH 7074	7.62 v 20	4 PL/HL 7005	D166 FMJ	D166 S405	FMJBT FMJ	7.87 7.91	.310	13.00 8.00	200 123	0.448 0.257	0.224	_
7.62 mm (.311) 3 mm (.323)	4 PH 7074 4 PH 8030	7.62 x 39 8 x 57 IS	4 PL/HL 7045		G573	OT	8.20	.311	7.85	123	0.257	0.179	_
, mm (.323)	4 PH 8030 4 PH 8031	8 x 57 IS 8 x 57 IRS	4 PL/HL8001 N PL 8009	Open Tip NEW! Naturalis	N559	CEX	8.20	.323	11.70	180	0.248		-
3.61 mm (.338)				Lock Base	-		_	_				0.179	-
.01 111111 (.338)	4 PH 8068 4 PH 8090	.338 Lapua Mag.	4 PL/HL 8012 4 PL 8017		B408 GB488	FMJBT OTM	8.60	.338	16.20 16.20	250 250	0.625 0.648	0.310	-
	4 FH 6090	.338 Norma Mag.		Scenar	GB488 GB528	OTM		_		300	0.648		-
			4 PL 8013	Scenar	B557		8.60	.338	19.44	300	0.736	0.368	-
			4 PL/HL 8011 N PL 8020	Lock Base Naturalis	N508	FMJBT CEX	8.60	.338	19.44 15.00	231	0.765	0.383	-
.3 mm (.366)	4 PH 9050	9.3 x 62			G574	OT	9.30		12.00	185	0.373		
(006.) ווווו כ.י	4 FR 9030	3.3 X 02	4 PL/HL9018 4 PL 9017		E433	SP	9.30	.366	18.50	285	0.283		_
			4 PL 9017 N PL 9204	Mega Naturalis	N560	CEX	9.30	.366	16.20	250	0.339	0.215	-

CALIBER	BRASS CA	ISES	ROLLEIS	BULLETS										
	Product No.	Designation	Product No.	lo. Bullet name	Product code	Туре	Bullet diameter		Weight		Ballistic coefficient			
							mm	in	g	grs				
.32 (7.65 mm)	4 HH 8021	.32 S&W Long	4 PL 8023	Lead Wadcutter	C427	LWC	7.99	.314	5.35	83	0.029			
			4 PL 8021	Lead Wadcutter	C356	LWC	7.99	.314	6.35	98	0.041			



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