



# PRODUCT CATALOG

2019 English

*Passion for Precision*

[lapua.com](http://lapua.com)

**NEW!**

- > New case: 6mm Creedmoor
- > New ammunition: 6.5 Creedmoor for Sport Shooting and Hunting



# LAPUA® PRODUCT CATALOG

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Our cover boy  
Aleksi Leppä,  
double World  
Champion!  
See page 21

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.

## World famous quality

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

## Certified

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

Part of Nammo Group

## PASSION FOR PRECISION

For decades Lapua has strived to produce the best possible cartridges and components for those who have a passion for precision. The results from various competitions worldwide prove that we are the preferred partner for the champions, everywhere. This has been achieved by consistent product development and cooperation with top shooters.

The top quality and superior accuracy that are characteristic to all Lapua cartridges are achieved with precise combining of the components. Reliable and timely ignition, optimal muzzle velocity and excellent ballistic properties are the result of well designed and carefully manufactured components. The ideal cartridge comes from the careful and precise combination of top-notch cases, exceptional bullets, well made primers and good powder selection. Assemble these with our well known passion for precision, and you have simply the finest ammunition in the world; Lapua.





# New ammunition!

## 6.5 CREEDMOOR

6.5 Creedmoor loaded with Scenar and Naturalis bullets for Sport Shooting and Hunting!



The 6.5 Creedmoor cartridge has dominated precision rifle shooting disciplines in very little time at all. Successful competitors shooting multi-gun, PRS, NRL and other precision rifle disciplines have propelled this cartridge to new heights. Lapua is proud to contribute to the 6.5 Creedmoor's continued success by offering two new ammunition products for today's accuracy-minded enthusiasts.

### 6.5 CREEDMOOR 8,0 G / 123 GR OTM SCENAR

6.5 Creedmoor loaded with our 8.0 g / 123 gr Scenar projectiles will reliably acquire targets out to 600 yards and beyond. This new mid-range offering will satisfy the demanding needs of precision shooters competing in a variety of disciplines, as well as many tactical applications for Mil/LE departmental use. The Scenar projectile's sleek profile, high ballistic coefficient (BC), and purposed SAAMI/CIP cartridge overall length (COAL) will reliably function and feed through any of today's leading box-style magazine applications, including ever-popular polymer style mags, without compromising accuracy at the target. The Lapua loaded 6.5 Creedmoor is destined to satisfy those with a Passion for Precision.



### 6.5 CREEDMOOR 9,1 G / 140 GR NATURALIS

With the Creedmoor's dominance in the competitive shooting world, its popularity has naturally crossed over to the precision minded long-range hunter. The 6.5 Creedmoor loaded with the Lapua 9,1 g / 140 gr Naturalis projectile provides a lead-free alternative for markets where traditional lead bullets are not permissible. Designed and manufactured from pure copper, the Naturalis is nearly unbreakable in construction and often retains 100% of its original weight. The Naturalis uses state-of-the-art technology to produce consistent, controlled expansion and optimum "mushrooming" at the widest velocity range on the market. Find your shot with the new 6.5 Creedmoor offering loaded with lead-free Naturalis 9,1 g / 140 gr bullets.

# 6MM CREEDMOOR

## New case!



Lapua is pleased to announce the availability of our new 6mm Creedmoor case, a necked down version of the extremely popular 6.5 Creedmoor designed to produce higher velocities, flatter trajectories, and reduced recoil.

### 6MM CREEDMOOR CASE

Customer demand for a 6mm version followed almost immediately after the release of the original Lapua Creedmoor case. Aside from the neck dimensions, our new 6mm Creedmoor case shares the same features and characteristics that make Lapua the standard for 6.5 Creedmoor brass. It 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.

While the original 6.5 Creedmoor was designed with NRA High Power competition in mind, other disciplines, including PRS, were quick to see the positive attributes of this cartridge. We know Lapua's latest offering will find a niche with discerning shooters in demanding competitive disciplines. Whether it's a timed run against steel at unknown ranges, or the precision of placing shots in the X-ring, this Lapua case is just right for you!





# LAPUA TEAM

## HALL OF FAME FILLED WITH GOLD

Since 1930, Lapua cartridges have been used to win more than a hundred gold medals in the Olympics and World Championships, as well as to break numerous World Records. Shooters who trust Lapua's cartridges are also at the top in demanding military shooting disciplines. Lapua cooperates with competitors in shooting disciplines, both at the cutting edge and at junior level.



Karl Olsson (SWE)

## USA

**F-Class** – Erik Cortina, Derek Rodgers

**HP Long Range** – Kent Reeve

**HP XTC** – Stephen Culpepper, Jeff Lindblom

**Benchrest** – Jack Neary

**Rimfire Benchrest** – Joe Besche, Brian Brandt

**Rifle Silhouette** – Mark Pharr, Cathy Winstead-Severin, Mallory Nichols

**PRS** – Matthew Brousseau (centerfire), Ian Kelbly (rimfire), Erik Cortina (centerfire)

**Rimfire Prone** – Kevin Nevius, Nancy Tompkins

**International 300 meter** – Lisette Grunwell-Lacey

**KO2M** – Derek Rodgers

**Bullseye Pistol** – Philip Hemphill, Keith Sanderson

## EUROPE

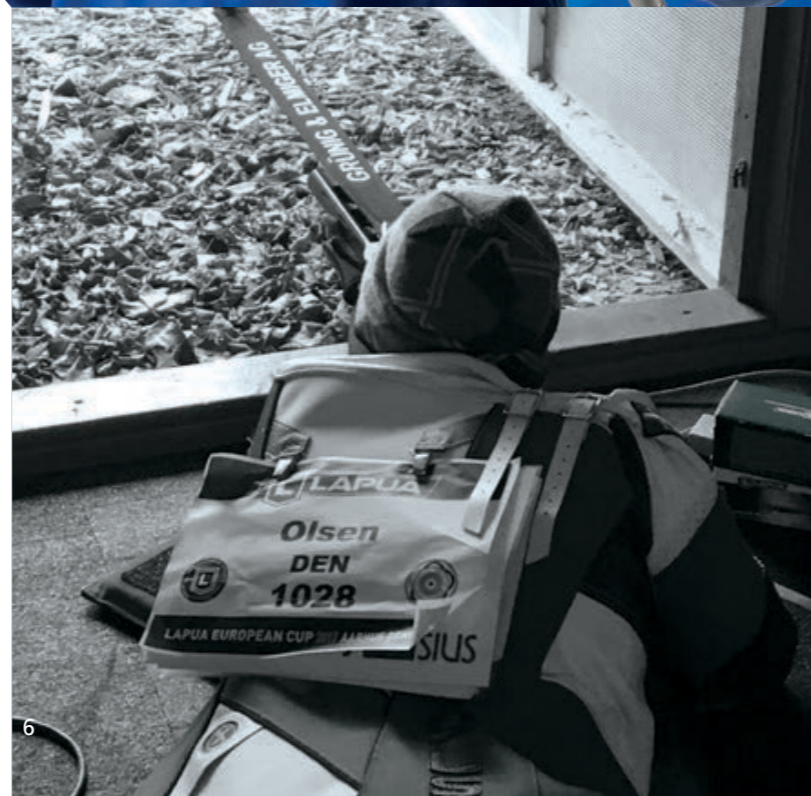
**DFS, ISSF Rifle 50 m & 300 m, Military shooting** – Kim-Andre Lund (NOR)

**ISSF Rifle 50 m & 300 m** – Karl Olsson (SWE), Charlotte Jakobsen (DEN), Eva Rösken (GER)

**ISSF Rifle 50 m & 300 m, Long distance shooting** – Peter Sidi (HUN)

**ISSF Pistol 25 m** – Christian Reitz (GER)

**IPSC Rifle** – Raine Peltokoski (FIN)



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

## HIGHLIGHTS OF 2018

### 52nd ISSF World Championships 2018, Korea

300 m Rifle 3P Men

- **Aleksi Leppä**, FIN - World Champion

2. Istvan Peni, HUN

300 m Standard Rifle Men

- **Aleksi Leppä**, FIN - World Champion

2. Karl Olsson, SWE

300 m Rifle 3P Women

- **Lisa Müller**, GER - World Champion

300 m Rifle Prone Women

- **Sohee Bae**, KOR - World Champion

2. Eva Rösken, GER

50 m Rifle Prone Men

- **Steffen Olssen**, DEN - World Champion

Team Lapua shooter **Karl Olsson** won everything at the **Swedish Nationals 2018** in Kristinehamn with Lapua 6 mm GB478 105 gr OTM Scenar and .22 LR Midas+

- 300 m Prone Men – 596-35X
- 300 m Standard Rifle – 585-21X
- 300 m 3P Men – 1177-51X
- 50 m 3P – 1151-43X, 454,3
- 50 m Prone – 615,2, 248,6

Kalle set a new Swedish record – nobody before him has won all 5 matches at the nationals.

### EB7 - European Benchrest Championship 2018 - HV100

- **Rune Fagerström**, FIN - European Champion

### USA SUCCESS

**Kevin Nevius** – Prone (Rimfire and Centerfire), Palma

- NRA National Long Range Thompkins Trophy – National Champion

• NRA National LR Herrick Trophy Champions (team member)

• NRA National LR Romanian Trophy Champions (team member)

• DCRA Canadian Nationals America Match Team USA Firing Member - Gold Medalist

• NRA Smallbore Conventional Prone Nationals – Anysight Champion

• NRA Smallbore Metric Prone Nationals – Bronze Medal (overall aggregate)

**Matthew Brousseau** – Precision Rifle Series (Centerfire)

- PRS Final Season Standings – 1st Open Division / National Champion

• PRS Season Finale – 2nd

• Jurassic Classic – 1st

• Silent Night PRS match – 1st

• Silent Night NRL match – 1st

• Bushnell Lone Star Challenge – 1st

• Accuracy International Long-Range Classic – 1st

• Steel City Precision Rifle Challenge – 1st

**Jack Neary** – Benchrest (Centerfire)

- U.S. World Team qualifier for WBC-15 World Benchrest Championships

• 3-Gun at the NBRSA Eastern Region 3-Gun Championships – 2nd

**Keith Sanderson**

• USAS Spring Selection (World Team qualifier) – 1st

• USAS Nationals Centerfire (World Team qualifier) – 1st

• USAS Nationals Standard (World Team qualifier) – 1st

• NRA 22 Team Nationals (Team Lapua/Zero) -1st

• NRA 45 Nationals (45 National Champion)-1st

• NRA 45 Team Nationals (Team Lapua/Zero) -1st

• NRA Overall Team Nationals (Team Lapua/Zero) -1st

• Camp Perry Glock Match – 1st

• CMP National Trophy Individual 1911 (NTI) – 1st

• CMP Military Police Corps Troph (National Trophy Team, High individual) – 1st

• CMP Anheuser Busch Trophy (NTI/ NTT agg) – 1st

**Lisette Grunwell-Lacey**  
NRA Outdoor 3-Position Conventional Small-bore National Championship

• Anysight Aggregate - 3rd overall & 3rd Civilian & 3rd Master

• Anysight Kneeling - 2nd Overall & 2nd Master

NRA Outdoor 3-Position Metric Small-bore National Championship

• AnySight Aggregate (Day 2) - 3rd Overall, 3rd Civilian, & 3rd Master

• Anysight Kneeling - Match Winner (1st)

• Anysight Championship - Kneeling Match Winner

NRA Outdoor Conventional Prone Small-bore National Championship

- Iron Sights Championship - Day 1 - 3rd overall

NRA Outdoor Conventional Prone Small-bore National Championship

- Irons Sights 1st Day Aggregate - 3rd overall, 2nd Civilian & 3rd Master

**Brian Brandt** – Benchrest (Rimfire)

- Schilen challenge PSL set new outdoor record 2395 72X agg. -1st

• Shoot one of only 5 OUTDOOR 2500 PSL TARGET

• PSL main event – 3rd

**Cathy Winstead-Severin** – Rifle Silhouette (Rimfire & Centerfire)

• NRA Smallbore Nationals Standard Rifle – 2nd

• NRA Smallbore Nationals Hunter Rifle – 3rd

• National Highpower Rifle Silhouette Standard Rifle – 3rd

• National Highpower Rifle Silhouette Hunter Rifle – 1st

• 23 National Silhouette Titles

**Mark Pharr** – Rifle Silhouette (Rimfire & Centerfire)

Tulsa Red Castle Silhouette Regional Championship

• Smallbore Standard Rifle – 1st Master

• Smallbore Hunter Rifle – 1st

• Highpower Standard Rifle – Gold

• Highpower Hunter Rifle – Bronze

**Philip Hemphill** – Bullseye Pistol (Rimfire & Centerfire)NRA National Pistol Championship

- High Law Enforcement and High Senior

**Jeff Lindblom** – High Power Rifle (Centerfire)

• Kansas Regional High Power Championship – 1st

• Missouri Regional High Power Championship – 3rd overall

• Missouri Regional High Power Championship Service Rifle – 1st, Gold Medal

• NRA National Midrange Championship Service Rifle – 2nd

**Erik Cortina** - F-Class & PRS (Centerfire)

- F-Class Nationals Midrange (team) – 1st, set National record.

### BIATHLON SEASON 2017-2018

IBU WC 2017-2018 & WCH 2018 & Olympic Games 2018

- 68 % out of all medals were taken with Lapua!
- Kaisa Mäkäräinen (FIN) IBU World Cup winner



# Lapua® RIMFIRE CARTRIDGES

Lapua manufactures rimfire cartridges with utmost care and precision. Each cartridge is checked individually and all lots are thoroughly tested on ballistic values, gas pressure and grouping. The products are released for distribution only if all test results are within strict tolerance levels.

SPORT



Istvan Peni (HUN)  
Photo: Djordje Janjic  
Grand Prix of Novi Sad

## Biathlon Xtreme THE NEW MUST-HAVE FOR SEASON 2019-2020

In world-class biathlon competition, biathletes need ammunition that can ensure fast and accurate shooting in challenging conditions. Lapua is proud to introduce the new Lapua Biathlon Xtreme cartridge, designed to meet the specific needs of biathlon competition.

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.



### BIATHLON XTREME

**The new best friend of the Biathletes.**

The new Biathlon Xtreme is optimal for Biathlon sport shooting in varying conditions. This cartridge comes with a grease-free biathlon bullet, produced utilizing brand-new technology.





The X-ACT ammunition has proven to be the most accurate and most uniform .22 rimfire ammunition available.



### 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 performance

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.



### 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.

# THE GOLDEN HISTORY OF LAPUA RIMFIRE AMMUNITION

Lapua has served shooters for seven decades with the world's best .22 LR match ammunition. In future, we look forward to providing you with the same competitive edge that has made your brightest medals a reality.

Lapua started manufacturing the .22 LR ammunition just after WWII, in 1947. Lapua ammunition in red, white and blue box became recognized for its accuracy and soon gold medals were shot in both world shooting championships and Olympic competitions. Lapua took its place on .22 LR ammunition top level.

Lapua introduced the .22 LR ammunition with a distinctive "blue box" brand, later following such products as Match Grade and Championship, which became world famous for their accuracy and match-winning results. Lapua developed advanced production technology that keeps our quality at an incredibly high level, and made such successful products possible. Lapua was also the first manufacturer that introduced different bullet diameters for the .22 LR to help shooters choose the best bullet size for their firearms.



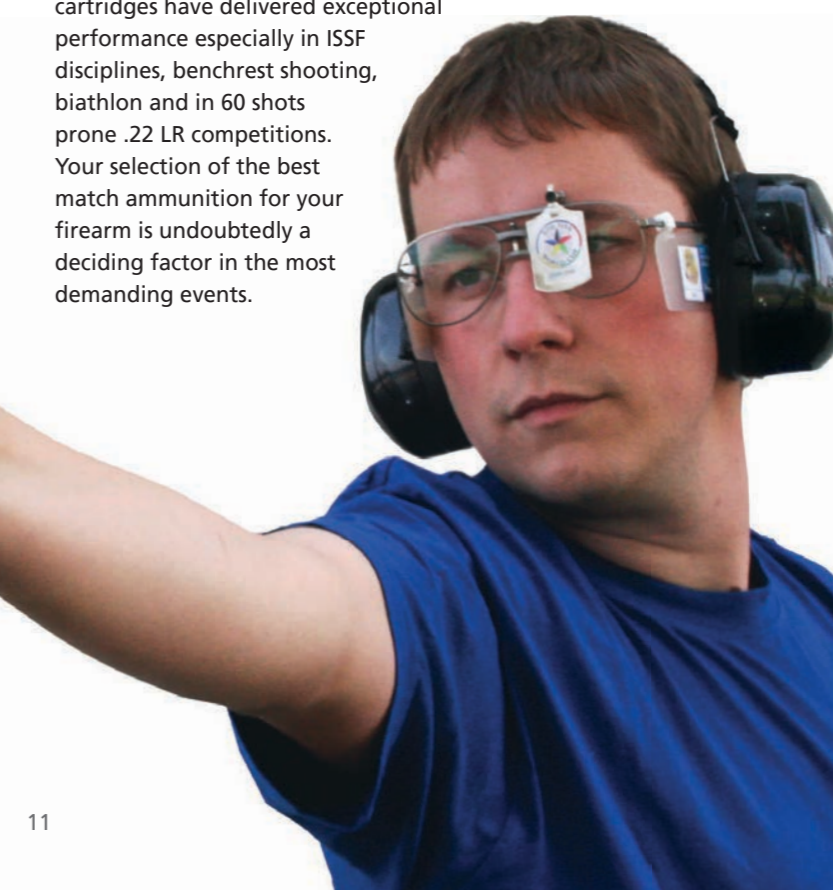
## FUTURE OF SUCCESS

Whatever your shooting preference, you will find the right cartridge from our wide selection of .22 LR cartridges. These range from the X-ACT, simply the world's most accurate .22 cartridge, to ammunition specifically designed for biathlon sport shooting.



In the 2000's Lapua set next generation standards for the .22 LR match ammunition with the X-ACT ammunition that proved to be the most accurate and most uniform .22 LR ammunition available.

Lapua .22 LR cartridges have earned numerous top competition gold medals and world records. These cartridges have delivered exceptional performance especially in ISSF disciplines, benchrest shooting, biathlon and in 60 shots prone .22 LR competitions. Your selection of the best match ammunition for your firearm is undoubtedly a deciding factor in the most demanding events.





## LAPUA CLUB ENGAGES AND REWARDS

Lapua Club is an exclusive website for Lapua customers. There are currently over 19,000 members, and more than 100 new members join each week. Becoming a member is easy - the registering code for the Lapua Club website is available as a QR-code on the product packaging. Members can keep a log of product purchases, and by registering purchases members take part in prize campaigns. Members also get easy access to more detailed information on Lapua products, for example trajectory charts for all cartridges. In addition, Club members can share their own Lapua experiences in the Lapua Club Story Room - a feature not found elsewhere.



Join the Club today, win prizes and share your stories and passion with other fans! Read more at <https://www.club.lapua.com/>



Lapua promotes the Biathlon sport and works closely with the International Biathlon Union.

Lapua's Polar Biathlon ammunition was developed especially for extreme winter conditions, and is used by the vast majority of all National Biathlon teams.



"It is truly amazing to still be shooting, for over thirty years now and doing well, thanks to the support of Lapua and their top-notch products. My daughter is nearing the age where she is going to start shooting, so I am looking forward to the next 30 years with another great buddy added to my shooting family!"

Cathy Winstead-Severin (USA)



At American Rimfire Association Nationals, Team Lapua members Joe Besche with sponsored shooter Maddie Reed.



Team Lapua members Kevin Nevius and Nancy Tompkins won the National Smallbore Metric Prone Championship in Bristol, Indiana.

## Lapua shooters favor X-ACT AND CENTER-X



And they should - X-Act and Center-X currently hold the World Records in the following ISSF rifle and pistol events:  
 50 m Rifle Prone Men / Torben Grimmel, DEN - .22 LR X-Act  
 25 m Rapid Fire Pistol men / Riccardo Mazzetti, ITA - .22 LR Center-X  
 25 m Pistol Women / Monika Karsch, GER - .22 LR Center-X





## MESA, ARIZONA, USA

Patterned after the world renowned Lapua Rimfire Service Center in Schönebeck, Germany, the Mesa facility was opened in 2012 and gives American shooters the same opportunity to test not only various types, but also different lots of rimfire ammunition, in their firearms, under tightly controlled conditions.

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

BOOKING: Tel. +1 660 460 2800  
Service Center Manager  
Daniel Cliff, rimfiretest@capstonepg.com

## LAPUA, FINLAND

Long time Lapua factory test shooter Arvi Välikkilä hosts the 50 m range midtown Lapua. Service and experience like none other!

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

BOOKING: Arvi Välikkilä +358 50 581 1728

## SCHÖNEBECK, GERMANY

Top shooters recommend ammunition tests at the 50 m Lapua .22 Rimfire Test Range in Germany, equipped with high-tech Meyton testing technology.

The special cooling chamber provides biathlon shooters an authentic climate to test their equipment also in winter conditions. 16 national biathlon teams have visited the test range.

A wide range of Lapua products (15-20 lots) will be available for testing. You can test pistols as well as rifles with different devices and find the best ammunition lot for your purposes. App. 1000 weapons for 250 customers 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



Daniel Cliff, Mesa Rimfire Service Center Manager

## ROYKEN, NORWAY

The Lapua .22 Service Center has a 50m and 15m shooting range with digital measurement and several kinds of benches so shooters can exactly match ammunition and firearms for best possible results. The cooling chamber is perfect for biathlonists to test equipment and ammunition in cool temperatures down to -25 C.

ADDRESS: Lapua Test Range Norway, Testskyting No DA, Bryhnsveien 5, NO-3440 ROYKEN, Norway; [www.facebook.com/Testskytingno](http://www.facebook.com/Testskytingno)

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

# Test Lapua .22 LR cartridges at SCHÖNEBECK RIMFIRE TEST RANGE

The Lapua Rimfire Test Range in Schönebeck and its team is a partner for shooters from all around the world. Many international top shooters and world champions have already tested our facilities, and they are highly satisfied with the results.

The test center has a 50m shooting range, completely equipped with digital measurement and several kinds of benches. This enables the shooter to exactly match the ammunition and the weapons for best possible results.



The Lapua Rimfire Test Range is located in Schönebeck (close to Magdeburg), Germany, only 180 km from Berlin. An accommodation can be arranged close to the shooting range, interesting cultural and leisure programs also available.

### Test shooting in cold chamber

The Schönebeck cooling chamber with temperatures down to minus 25 degrees Celsius is the perfect option for biathlonists to test their equipment and ammunition in a cool environment.



Andreas Schnitzler  
Range Officer





# Lapua® CENTERFIRE CARTRIDGES AND COMPONENTS

The unrivaled quality of Lapua ammunition is achieved by carefully blending only the finest components, and assembling them with the utmost attention to detail. Reliability, accuracy, and consistent performance are the result of a combination of years of experience, advanced design and state of the art manufacturing technology. Quality you can trust!

Lapua's pistol and revolver cartridges are extremely accurate and supremely reliable.

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

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



At the 50th CISM World Shooting Championships 2018 in Thun, Switzerland, more than 90 % of the centerfire pistol competitors used Lapua ammunition.

## .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.

## 9 MM LUGER



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

SPORT



**Raine Peltokoski (FIN)** is widely regarded as the best practical rifle shooter in history. Since 2007 he has dominated rifle matches, and despite a total break from shooting in 2013, he won the Nordic Championships in 2014 by a healthy margin.

Raine is also successful in practical shotgun, and he was 13th in Rhodes World Shoot in 2012 in the Open division Pistol. In the 2017 IPSC World Rifle Shoot, Raine came 2nd in the Semi Auto Open division out of 357 individual competitors.



Team Lapua member Stephen Culpéppér testing loads.



# The pioneer in TARGET SHOOTING CARTRIDGES

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.

Double World Champion  
Aleksi Leppä (FIN).  
Read more on Aleksi on p.21

## NEW CARTRIDGE!

### 6.5 CREEDMOOR

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 multi-gun, 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.



### Lapua is the number one choice for top shooters

Lapua's extremely accurate Match grade cartridges are loaded with the best target bullets - Scenar-L, Scenar, FMJBT, D46 and Lock Base. Numerous World Championships, Olympic Games and other top competition gold medals, as well as many official World Records in different disciplines are shot with Lapua cartridges.



### .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

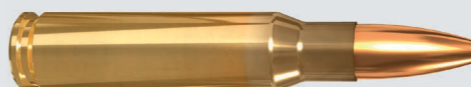
**The Lapua .223 Remington match ammunition has been designed to meet the strict demands of competitive shooting.**

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 long-range 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 300m 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.



# Top Lapua shooters

## KEVIN NEVIUS

2018 was the year of Kevin Nevius. Having always been an impressive shooter, Nevius was asked to join Team Lapua in 2008. Nevius excels in Smallbore Prone, High Power Long Range Prone, and Palma disciplines. He utilizes Lapua Smallbore ammunition, brass, and bullets.



Going into 2018, Nevius looked to his training. "This year was more of a challenge than most, with the normal smallbore schedule combined with the US Palma team selection. I rebarreled everything, smallbore and high power, so I had to do load development for all the rifles – my primary smallbore rifle, and two for long range, any rifle, and Palma. I also mixed training during the spring and summer to include smallbore, which I can do at home and trips to Malvern – one of only two 1000 yard ranges in Ohio. I try to build up to the Nationals so I am comfortable in position, but not too burned out – which is also tougher to do when you are training for multiple disciplines. Because of this, I worked in the shop last winter to get all of the barreled actions into a single stock – which produced some additional comfort and familiarity and allowed some true cross-training." And the training paid off.

This past July Nevius competed and made history at the National Matches in Camp Atterbury, IN. Having won the Critchfield Trophy in 2008, 2014, and 2015 for the Smallbore Rifle Prone National Championship and the Smallbore Rifle Metric title in 2010, he made history by bringing home the Tomkins Trophy, emblematic of the US Long Range Championship. Nevius became the only person in history to win all three convent titles. Nevius also competed in team events and added the National Long Range Herrick Trophy Championship and the National Long Range Romanian Trophy Championship to an already successful competition.

Nevius didn't stop at the Long Range Nationals, he continued on a roll at the National Smallbore Rifle Championship by becoming the Smallbore Conventional Prone Any Sight Champion and took a bronze medal at the

Smallbore Metric Prone Nationals (overall aggregate). In August, he joined Team USA at the DCRA Canadian Nationals and assisted the team in bringing home the gold medal in the America match. To top it off it, he was named to the US Palma team. To Nevius, the greatest achievement for the year was winning the NRA Long Range Nationals. "It was on my bucket list, so winning there was a blessing for sure. Making the US Palma team to New Zealand was a very close second."

With such an amazing year, how does one handle the pressure? "I don't think at least for me it ever goes away or is ever truly manageable. My dear friend and teammate Nancy Tompkins once told me very simply to never worry about the aggregates, or the scoreboard, just focus on each individual shot. Break each one to the very best of your ability on its own merits – and the rest kind of takes care of itself. Another point – for me, that's also why the match schedule leading up to the Nationals is so important. It puts you in match/pressure situations and allows you to acclimate to similar pressure situations", Nevius comments.

It doesn't look like Nevius is going to be slowing down in 2019 either. He'll be kicking off the 2019 competition season by heading to New Zealand representing the USA and competing in the World Championships, which happens to be what he is most excited about for 2019. "I am really looking forward to the World Championships in New Zealand. I always wanted to go there, and am so honored to represent the USA on the Palma Team. I never thought in a million years I would get the chance to do these things, with so many people I admire so much." We wish him the best of luck and can't wait to see what he does in 2019.

# ALEKSI LEPPÄ

Young Finnish rifle shooter Aleksi Leppä has been someone to watch for some time. But in 2018, he truly shot to fame at the World Shooting Championships in Changwon, Korea, clinching two personal gold medals in the 300 meter disciplines. Here, he shares his thoughts on the unforgettable event.

**Aleksi Leppä (FIN)**

We landed in Korea on August 26, 2018, so we had a few days over to prepare. I shot all the rifle matches and after the rimfire events, it was time for the 300 meters disciplines.

The 300m prone was the first match, and during practice the weather was calm and the shooting went smoothly. But in the morning of the qualifying when I came to the range, the shooting mats were flying around in the wind. I thought, well now this is going to be interesting...

The same wind continued throughout all the 300m matches. In the standard rifle standing practice, I felt like I was going to fall over because the wind blew with such force from both directions. I was hitting eights and sevens on both sides of the x, trying to find a good pocket.

On the morning of the 3x20 match, I was hoping the wind would've died down, but no such luck. My tactics were to try to shoot into the same wind. It worked, and I got a decent result in the kneeling stage. I managed to shoot the prone very quickly.

When I was lying down between series, I watched as empty Lapua cartridge boxes flew around the range in the wind and thought, well that's some great advertisement right there!

I was able to shoot the standing position in a calmer wind. But shooting didn't get much easier, as at this point I knew I was doing well and the pressure began to build. I just focused on firing good shots suiting my grip, and it worked. I had won the Standard rifle!

I didn't have time to celebrate the first World Championship title, as next day was practice day for free rifle. It was probably the best free-rifle shooting I've ever done. I did not let the wind disturb my shooting, and it was good place to start the 3x40. The competition went well. In kneeling, I followed the wind closely and shot good scores. In the prone, I was able to shoot really fast again and it showed in the results. In standing, I tried to take it slow and focused on each shot. I took the last shot. It was a 10, and I celebrated it a little because I'd set a new personal record and was happy with my own accomplishment. My coach showed me the thumbs up. I had won!

It was such an amazing feeling to win the World Championship title, especially when conditions were so challenging. I can't describe how it felt, looking at my own name at the top of the score board. It's amazing to have been able to do it twice, even better!





# 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.

**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 concentricity and wall thickness are used in manufacturing. The neck and shoulder are annealed to withstand repeated reloading.*

*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.*

**NEW CASE!**



## 6MM CREEDMOOR

Our new 6mm Creedmoor cases shares the same features and characteristics that make Lapua the standard for 6.5 Creedmoor brass. It 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 match performance with even less recoil.



## .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.



## 9MM LUGER

**Reloading capability with Lapua's 9 mm Luger**

The 9 mm Luger, also known as the 9mm Parabellum or 9x19mm, is now one of the most popular pistol cartridges in the world, and Lapua offers top-quality brass for this caliber. When the reloading capability counts, Lapua's 9mm Luger case is the obvious choice.



## .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.



## .221 REMINGTON FIREBALL

**Bringing traditional Lapua quality to a proven caliber.** Introduced by Remington in 1963, this groundbreaking cartridge set new standards for handgun performance. The .221 Fireball is more popular today than ever. Whether used in its original form, or necked into one of the many cases that it serves as a parent for, the Lapua .221 Fireball is a sure winner.



## .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.



## .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 new 6.5 Creedmoor case has been refined just a bit, to make it an even better performer. We've opted for the small rifle primer, which normally produces an optimized ignition and better accuracy than large primers in mid-sized cartridges like the Creedmoor.



## 6.5 GRENDL

**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.



### .300 AAC BLACKOUT

The versatility of the Blackout has appealed to a broad range of shooters. Intended to drive 220 grain bullets at subsonic velocities, the switch to lightweight bullets such as the 125 grain offerings delivers performance very similar to the venerable 7.62x39 cartridge. This makes the 300 Blackout potent enough for a wide range of shooting tasks.



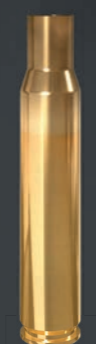
### .308 WINCHESTER

**One of Lapua's flagship cases.** Our .308 Winchester case has made Lapua quality world renowned. It continues to be the standard by which all other cases in this popular rifle caliber are judged. The main advantage of our .308 Win. brass is the premium consistency and quality.



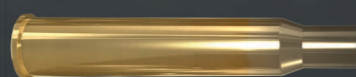
### .308 WINCHESTER PALMA

**Long-range accuracy by Lapua.** Developed in conjunction with the US Palma team, the small rifle primer case is designed to deliver enhanced long-range accuracy for the most demanding competitive applications. Lapua's .308 Palma Win. brass has been acclaimed as a success by rifle shooters everywhere.



### .30-06 SPRINGFIELD

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



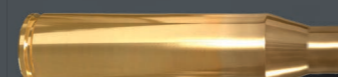
### 7X65R

One of the most popular calibers in Central European hunting for double rifles and combination guns is now available as a reloading component for all enthusiastic hunters and home loaders. Optimized for tens of reloading cycles with reliable removal from the chamber.



### 7.62X53R

**The Finnish legend.** This case is a legendary Finnish innovation, still used in military, Scandinavian hunting and traditional rifle competitions. Lapua has manufactured 7.62x53R cases for almost a century, and this caliber is well known for its ultimate quality and consistent performance.



### .300 NORMA MAGNUM

A recent development based on the .338 Norma Magnum necked down to .30 caliber, the .300 Norma Magnum was adopted as the US military's Advanced Sniper Cartridge "for extra long ranges beyond 1500 meters". In addition to its military duties, the .300 Norma is sure to find favor with long-range competitive shooters and hunters. Lapua is pleased to add this impressive case to our line!



### 7.62X39

**Best in its class.** Lapua's 7.62x39 brass offers match quality that no other manufacturer has for this caliber. When it comes to competition, Lapua's 7.62x39 case is the unquestioned champion over all others.



### 8X57IS

From African plains game to European stag and boar, the 8mm Mauser has earned an enviable reputation as a big game round in a wide array of conditions. Accurate, versatile and powerful, the 8x57 IS still serves the sporting community well for a host of hunting applications.



### 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 undisputed 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.



### .50 BMG MATCH

Though most known for its service in heavy machineguns, the .50 BMG has the potential for very good accuracy, hindered mostly by the lack of true, match-grade components. This big boy of rifle calibers requires durable brass, and Lapua has stepped in to address this problem with our .50 BMG precision made Match cases. When accuracy is the ultimate goal, the Lapua .50 BMG Match case is the solution!



Lapua's legendary and record-breaking bullets combined with the incomparable Lapua brass make a perfect companionship. Test, shoot, and enjoy the winning feeling.

## Almost handmade LAPUA BULLETS

The Lapua bullets are known for their accuracy and superior ballistic design. The Scenar and FMJ bullets are available for the Lapua .223 Remington. The FMJ bullet is designed for hunting. Lapua offers a magazine length bullet of higher Ballistic Coefficient for Service Rifle category of HighPower rifle competition. The Lapua 77 grain Scenar provides long-range wind-bucking ability for the 300 yard line, and beyond.



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

The D46, which we developed way back in the 1930s, is still one of the best industrial full metal jacket bullets. While development has focused on Lock Base and Hollow Point bullets that withstand high pressures, Lapua's accuracy has just kept improving. We have also introduced the Scenar-L, the ultimate rifle match bullet, as well as the third generation lead-free Naturalis® hunting bullet selection.

Our Scenar match bullet represents the very high end of its class: it has achieved the 600/600 world record of the International Sport Shooting Federation (ISSF). Consistent

quality that starts with the raw materials makes this possible. Lapua bullets are practically handmade.

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

*Read more about Lapua's OTM Scenar bullets in page 28.*

### SCENAR<sup>L</sup>

**The ultimate long range match bullet.** The Scenar-L has the refined qualities of the original Scenar bullet with higher standards of jacket wall concentricity, weight variation and dimensional uniformity. Scenar-L has truly earned its reputation as the go-to bullet for the best possible results in long range rifle shooting. For top shooters in the world in bench rest, long range or F-class, Scenar-L is the ultimate match bullet, proven by the countless long range records set using it.

### FMJ

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

### CUTTING EDGE

An open tip bullet capable of incredible accuracy, the Cutting Edge leaves an easy to score hole in your target, thanks to its innovative design. When you are looking for the best short range target bullet for paper-punching, your choice is the .30 caliber G477 6.5g/100gr OT Cutting Edge. This bullet typically achieves groups of under 25mm at 100 m shooting distances.

### D46

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

### SCENAR

**The first choice for serious target competition.** Lapua Scenar Open-Tip Match bullets have given superb results at long ranges and bench rest shooting. The Scenar bullets have the IBS World Record in 600 yard Heavy Gun 5-shot group (0.404") and also hold the official world ISSF record of 600 out of 600 possible, an unbeatable score.

### LOCK BASE

Lapua's Lock Base bullet is a Lapua innovation which combines a full metal jacket and boat tail with a patented base design. This bullet has proven its worth in sport shooting arenas as well as military and law enforcement applications over time.

### NATURALIS

**Respecting the game.** The bullet is designed and manufactured by using pure copper. The material, design and controlled expansion ensure a solid and nearly unbreakable construction. The weight retention of the bullet, even after impacting on heavy bone, is frequently 100% of its original weight. **Read more about Naturalis on pages 35-40!**

### MEGA

**For big game hunters.** Lapua's Mega bullet is a soft point jacketed hunting bullet. The Mega is a traditional lead core bullet for all kinds of European and North American game, particularly large game hunting. The mechanical bonding locks the lead alloy in place, keeping the structure together at point of impact. **Read more about Mega on page 42!**



# SCENAR BULLET FAMILY

## 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 core-jacket assembly, boat tail pressing and tipping.

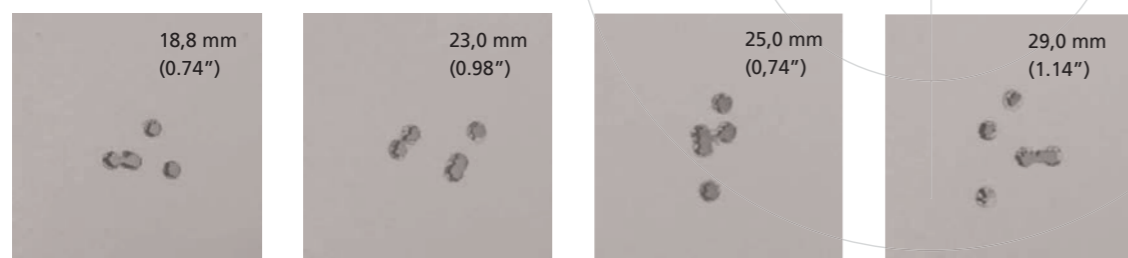
### THE SCENAR-L BULLET

Several new proprietary machines, manufacturing steps and advanced instrumentations combined to the Scenar-L manufacturing line 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

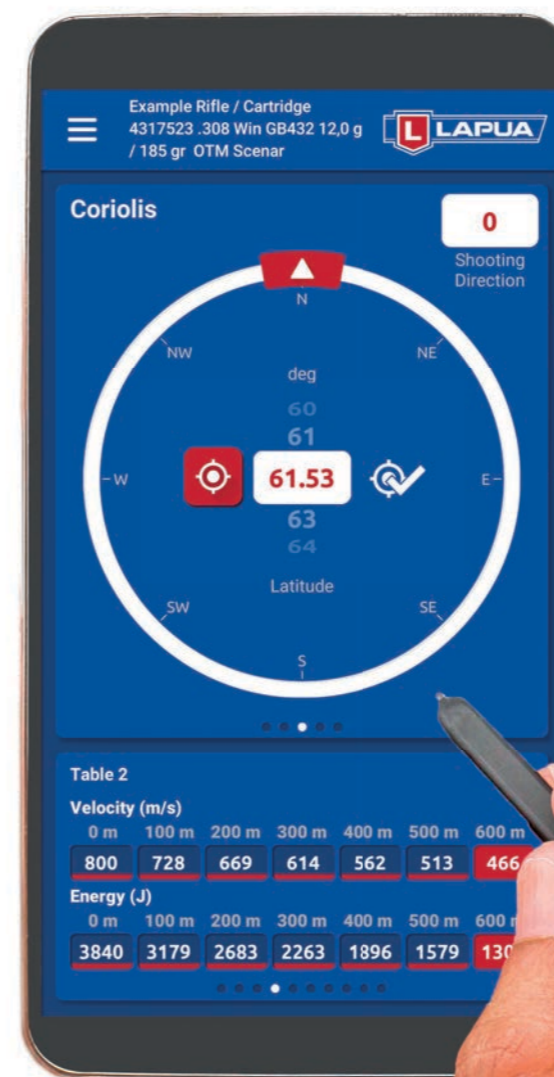
The latest version of the Lapua Ballistics app is available for Android and IOS users, including new features. Please check [lapua.com/en/resources/lapua-ballistics-news.html](http://lapua.com/en/resources/lapua-ballistics-news.html) for details.



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 6DOF

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



#### Features

- Utilizes 6DOF, the most accurate calculation method
- Always available with the 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 your own firearm / reticle combinations
- Choose between metric and imperial values
- Set Point Blank-range to different sight-in distances and impact windows
- Define aiming point to moving target
- Define custom bullets (calculations based on BC G1 or G7 and Siacci method)
- Pre-set max 4 powder temperature - Vo pairs to the same cartridge to correct powder temperature sensitivity
- Sight-in-POI, Coriolis calculation
- Compare up to 3 Lapua cartridge/bullet performances to each other

Download Lapua Ballistics USER INFO from [lapua.com/upload/ballistics/](http://lapua.com/upload/ballistics/)







# Lapua® TACTICAL AMMUNITION

Lapua is a pioneer in the development and manufacture of sniper ammunition. All our tactical ammunition is produced to the same match grade requirements as our target ammunition.

### Not just according to toughest standards.

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

### The most accurate long-range cartridges.

The reliability and accuracy of Lapua's tactical ammunition is renowned worldwide. The tactical cartridges are manufactured with the same unconditional precision and care as our leading sport shooting products. Our pinnacle of quality and accuracy is the .338 Lapua Magnum, which has an effective range up to 1500 meters. Despite this, the .338 Lapua Magnum systems are about the same size and weight as the 7.62mm systems. The .338 Lapua Magnum system is considerably lighter than the .50 caliber system.

## .338 Lapua Magnum THE ORIGINAL

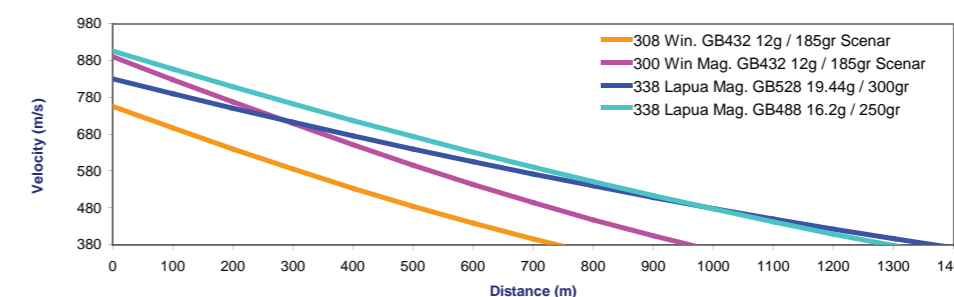
The .338 Lapua Magnum is currently the best choice for long range sniper applications, extending the operator's range to well beyond one kilometer.

.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.

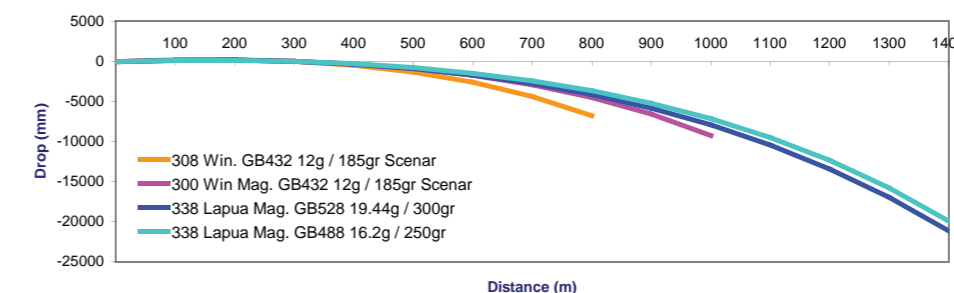
B408 Ball features a 250 gr. (16.2 g) Lock Base FMJBT bullet, remaining supersonic up to 1300 meters. AP485 features a 248 gr. (16.1 g) Armor Piercing bullet, trajectory matched with B408 Ball. The world's most accurate armor piercing ammunition will penetrate 10mm of armored steel at 800 meters.

.338 Lapua Magnum cartridges are also offered in 300 gr. (19.4 g), including the GB528 Scenar, B557 Lock Base, and AP529 Armor Piercing, extending accuracy and penetration capabilities at longer ranges.

### VELOCITY COMPARISON



### TRAJECTORY COMPARISON



*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.*

TACTICAL

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







# World's standard **LAPUA** **.308 WINCHESTER**



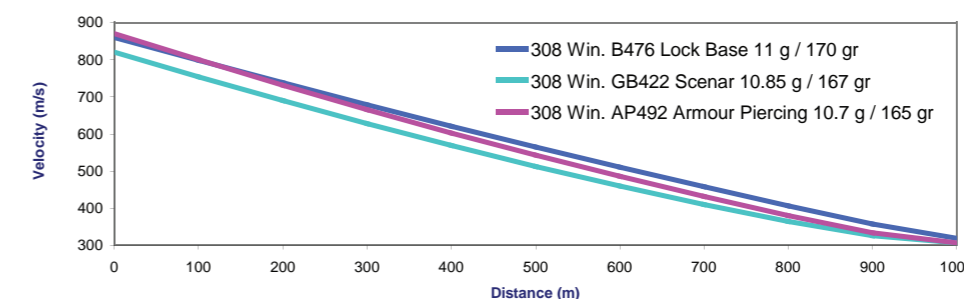
.308 Winchester (7.62x51mm NATO) possesses mild recoil, good terminal ballistics, and an effective range of 800 meters (875 yards). This versatility is the reason the caliber remains the most popular choice for use in law enforcement and military sniping applications.

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.

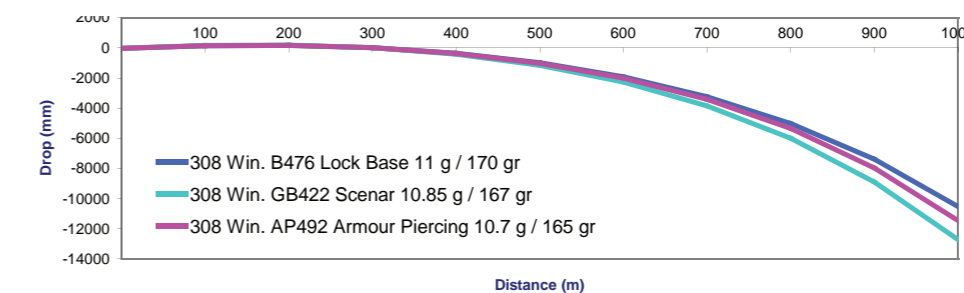
Since the introduction of the legendary D46 cartridge, still in use today, Lapua's .308 Winchester ammunition is in use by militaries and government agencies throughout the world. Lapua .308 ammunition is not only the world's most accurate, but the closely matched ballistic trajectories between different 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.

## VELOCITY COMPARISON



## TRAJECTORY COMPARISON



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

*This Lapua's tactical cartridge is developed for short barreled semi-auto rifles. This cartridge 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 Lapua tactical bullets, see the selection in page 35.







# TACTICAL BULLETS

## BALLISTIC COEFFICIENT

.338 LAPUA MAGNUM								
BULLET NAME	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
			> 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	
Naturalis	15.0 g / 231 gr	N508	0.380	0.358	0.368	0.391	0.323	0.191
Scenar	16.2 g / 250 gr	GB488	0.646	0.632	0.588	0.613	0.708	0.320
Lock Base	16.2 g / 250 gr	B408	0.621	0.589	0.527	0.545	0.592	0.294
Armor Piercing	16.1 g / 248 gr	AP485	0.556	0.553	0.532	0.555	0.615	0.285
Armor Piercing Incendiary	16.4 g / 253 gr	API526	0.566	0.563	0.543	0.565	0.629	0.290
Scenar	19.4 g / 300 gr	GB528	0.745	0.756	0.726	0.748	0.560	0.368
Lock Base	19.4 g / 300 gr	B557	0.779	0.765	0.677	0.629	0.549	0.383
Armor Piercing	19.4 g / 300 gr	AP529	0.726	0.707	0.683	0.632	0.488	0.366

.308 WINCHESTER								
BULLET NAME	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
			> 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	
Lock Base	9.72 g / 150 gr	B466	0.438	0.419	0.348	0.218	0.168	0.200
Scenar	10.0 g / 155 gr	GB491	0.464	0.452	0.427	0.433	0.486	0.231
Armor Piercing	10.7 g / 165 gr	AP492	0.440	0.420	0.378	0.308	0.535	0.210
Lock Base	11.0 g / 170 gr	B476	0.502	0.471	0.401	0.284	0.270	0.228
			> 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	0.445	0.431	0.393	0.361	0.487	0.219
Naturalis	11.0 g / 170 gr	N558	0.354	0.354	0.354			0.177
Scenar-L	11.3 g / 175 gr	GB550	0.490	0.483	0.468	0.390	0.370	0.247
Scenar	12.0 g / 185 gr	GB432	0.485	0.472	0.439	0.457	0.657	0.242
D46	12.0 g / 185 gr	D46	0.508	0.496	0.446	0.449	0.575	0.250
			> 300 m/s > 980 fps	< 300 m/s > 980 fps				
Subsonic	13.0 g / 200 gr	B416	0.515	0.413				

For the data tables of .338 Lapua Magnum and .308 Win. tactical, see pages 46-47.



### 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.



### AP

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!



### 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.



### SOLID (NATURALIS)

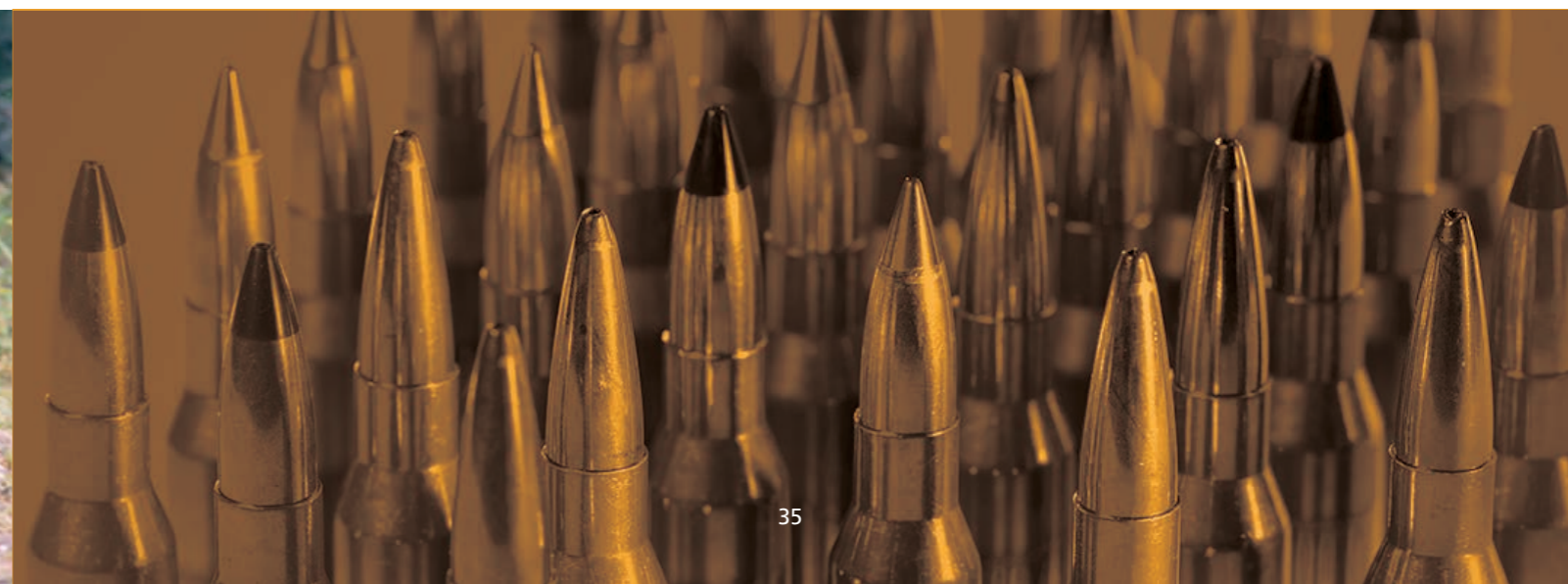
Innovative bullet design enables controlled expansion with 100% retention weight. Bullet construction with valve design offers a maximal shock effect over the wide terminal velocity range (500-1000 m/s). For operational purposes the solid frame construction enables a straight bullet path through laminated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

For more info on Naturalis bullets, see pages 38-40.



### 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

Lapua has manufactured Naturalis® bullets since 2002 and has recently introduced the 3rd generation of the lead-free hunting bullet. The Naturalis hunting bullets and cartridges represent the newest technology of bullet manufacturing and are market leaders in terminal ballistic performance, they can be used in hunting areas where lead core bullets are prohibited.

## BIRDS, BOARS AND BEARS

Lapua's product range has the right cartridge for all different kinds of hunting whether you have your sights set on moose, deer, wild boar or smaller game.

Lapua loaded cartridges work in every environment, without fail. From humid forest to the dry, hot desert or snow covered mountains, you can always count on Lapua!

Lapua hunting cartridges are loaded with Naturalis, Mega and FMJ bullets, which have been carefully designed and dimensioned for their purpose. You will always have the right type of ammunition the game demands. Intensive and regular training hones your shooting skills, and Lapua ammunition will provide the accuracy you need. Lapua ammunition is made to perform, every time.

Lapua ammunition offers everything hunters require, and now with greater versatility than ever before!



Photo: Niklas Scharffetter, JÄGER

# HUNTING

## A CLEAN AND ACCURATE SHOT

The mushrooming of the Naturalis bullet starts immediately on impact. The expansion process is started by the valve at the tip of bullet, leading the bullet to expand symmetrically and without fragmentation. This gives a maximal energy transfer to the hunted game, reduces the risk of wounding or lengthened suffering, and minimizes the meat loss.

This premium pure copper bullet performs consistently, repeatedly retaining a full 100% of its weight after expansion. A clean shot, advanced design and state of the art manufacturing technology. Quality you can trust!



"A hunting experience for a true hunter is more than the end result."







# 3RD GENERATION NATURALIS



## 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 using pure copper. The material, design and controlled expansion ensures a solid and nearly unbreakable construction. The weight retention, even after impacting on heavy bone, is frequently 100% of its original weight.

## IMPROVED SHAPE - BETTER BALLISTICS

## BALLISTIC ADVANTAGE OF BOAT TAIL DESIGN

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

## BEST LOW VELOCITY PERFORMANCE ON MARKET

## OUTSTANDING PERFORMANCE EVEN IN 900 m/s IMPACT VELOCITY

## 20% MORE EFFECTIVE RANGE

## 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".



## .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.

482 m/s -> 11.0 g

791 m/s -> 11.0 g

908 m/s -> 10.9 g







# 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

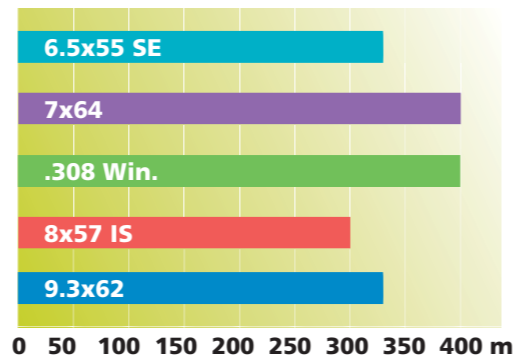
N508 15.0 g / 231 gr  
(NPL8020)



### 9.3 MM

N560 16.2 g / 250 gr  
(NPL9204)

### EFFECTIVE RANGE



### .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.



### 6.5X55 SWEDISH

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



### .308 WINCHESTER

One of Lapua's 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.



**LEAD FREE BULLET**

## MORE NATURALIS CARTRIDGES

**NEW! 6.5 Creedmoor! Read more on p. 3-4**

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

Check **Youtube** for **Naturalis video**





# MEGA FOR BIG GAME

Whether you need ammunition for training, competitions or serious hunting situations, you have to know that ammunition is reliable. Lapua Mega delivers that accuracy, reliability and dependability in all situations.

## RELIABLE AND TRADITIONAL

The Lapua Mega is a soft point bullet designed for the big game hunting. The bullet features a lead core and copper jacket which are mechanically bonded together. The Mega bullet has also a long jacket that protects core and prevents premature bullet expansion or breakage when bullet goes through light brush or grass cover.

Mechanical bonding means that core is firmly locked inside the jacket and will not separate even on hardest impact. The Mega bullet has very high, up to 97% retaining weight after impact on game. It typically more than doubles on impact, causing an immediate shock effect.

The Mega bullet family includes 5 bullets which are available in 6.5mm, .30 and 9.3mm calibers. Ammunition is loaded in the most popular big game calibers used in Scandinavia.



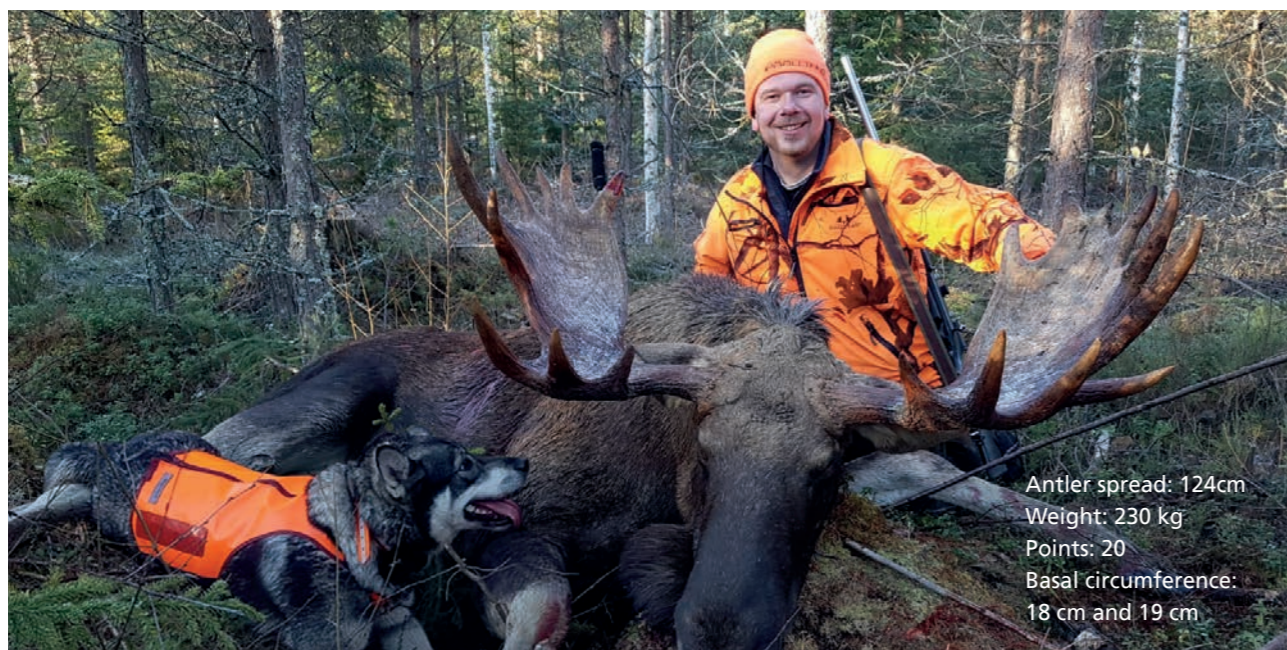
## TOP FEATURES

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

## AVAILABLE IN

- 6.5x55 SE
- .308 Win.
- .30-06 Spring.
- 7.62x53R
- 9.3x62

*Your hunting trips should leave you with fond and unforgettable memories. With Lapua Mega you can ensure that those opportunities will yield treasured lifelong memories.*



Antler spread: 124cm  
Weight: 230 kg  
Points: 20  
Basal circumference:  
18 cm and 19 cm

## IT WASN'T A DEER...

By Karri Eerikäinen, forester

"On Saturday 27th of October, we were preparing for a driven moose hunt with my hunting club Mäntyharjun Eränkävijät in Mäntyharju, Finland. The club had plenty of permits for adult moose and a few permits for calves. The drive master had given instructions regarding desired antler size, "preferably something larger than moped handlebars". The area we focused on had had a lot of activity in the past week, so the hunting party was feeling very hopeful as we set out with two dogs.

One hour after the hunt began, the dog Tommu had driven two deer through the line of standers. At the same time, the other dog Nalli had caught a scent within the area and the hunters were eagerly waiting to know what it was. Suddenly, there were a few sharp barks. The dog handler soon informed us that a moose cow and her calf had gone down to the nearby lake and had then waded North across the strait. The dog hadn't followed them into the water. We cleared the standing spots and decided to meet at the camp site to distribute new spots in the assumed direction of the cow and the calf.

The drive master distributed the most important spots and I happened to be left without a spot. We stayed behind at the camp site with the master and the dog handlers to wait for the others to find their spots. I happened to look at the radar app as the last cars left for the new spot line. During this time, the deer had crossed paths with the assumed direction of the cow and the calf. I figured it would be wise to wait a few minutes for Tommu's reaction to the cow and calf scent. And sure enough, Tommu made a 90 degree turn to the east half a mile north of the place where the moose had waded ashore.

I asked the drive master permission to take the standing spot near the camp fire site, as it was in the exact direction where Tommu had gone. The master nodded and I set off for the spot, with Tommu approaching just a mile away. We assumed that Tommu was most likely driving the deer or, in the best case, the cow and the calf. I was preparing for the deer, but better to be safe than sorry! Soon I could hear loud noises of branches breaking in the foreground. That's not a deer, I thought, I guess it's the cow and the calf!

The sound of breaking branches came closer. My standing spot was in a wooded area with 16-foot pines next to a small hill with thinned pine forest. I expected the moose to move through the densest spot, but just over fifty yards away, the sounds started to move in the direction of the hill. I realized I'd better put a move on if I wanted a chance to shoot the calf and spare myself from any wise cracks at the camp fire later. I ran by the side of the hill towards this branch breaker - until I saw the moose trotting down the hillside some 50 meters away.

Tommu the dog had at some point swapped the deer for the biggest moose bull I've ever seen. And with the first shot, Naturalis found its spot behind the shoulder. As the hit was difficult to verify in the shooting situation, I fired a second shot just to be sure. The moose fell about 60 meters away after the latter lung shot. The entry wounds were right next to each other right behind the shoulder. Naturalis had worked perfectly, and the first bullet was found on the opposite side under the skin with 100% residual weight. We marveled at the size of the antlers and made sure the dog knew he was a very good boy. The dog handler later commented that this was the first time that the shooter would come over to greet him with a big hug... "





CARTRIDGES - CENTERFIRE RIFLE														● SPORT ● HUNTING ● TACTICAL AMMUNITION												
Caliber	Product no.	Bullet name Weight Code	Velocity [m/s]							Trajectory [mm]							Test barrel length [mm]									
			Energy [J]							Impact point above or below line of sight (Scope 40 mm above bore line)																
			Wind drift [mm] (Sidewind 4 m/s)							Rifle sighted in at [m]																
0 m	100 m	200 m	300 m	600 m	800 m	1000 m	100 m	200 m	300 m	600 m	800 m	1000 m		100 m	200 m	300 m	600 m	800 m	1000 m							
.222 Rem. (5.7x43)	4315020	FMJ 3,6 g / 55 gr S538	880	756	640	533								100	0	-135	-519							600		
			1394	1030	738	511									300	173	211	0								
			0	37	161	398									168 GEE	40	-53	-396								
4315030	SP 3,6 g / 55 gr E539	880	713	574	461								100	0	-155	-613								600		
		1394	916	592	382								300	204	253	0										
		0	52	228	563								163 GEE	40	-70	-485										
N315025	Naturalis 3,2 g / 50 gr N566	965	802	656	532								100	0	-115	-461										
		1490	1030	689	293								176 GEE	40	-36	-342										
		0	41	181	883																					
.223 Rem.	4315040	FMJ 3,6 g / 55 gr S538	955	828	707	594								100	0	-106	-415								660	
			1642	1234	900	636								176 GEE	40	-33	-305									
			0	32	140	345																				
4315011	Scenar 4,5 g / 69 gr GB541	850	762	680	604	405							100	0	-129	-469	-3445								510	
		1626	1307	1042	821	369							300	156	184	0	-2506									
		0	26	108	258	1251							600	574	1020	1253	0									
4315015	Scenar-L 4,5 g / 69 gr GB544	830	744	663	588	392							100	0	-138	-501	-3665								510	
		1550	1244	989	777	345							300	167	196	0	-2663									
		0	26	112	266	1288							600	611	1083	1332	0									
.243 Win. (6.16x51)	4316052	FMJ 5,8 g / 90 gr S561	885	796	712	634	434							100	0	-116	-425	-3122								610
			2271	1837	1472	1166	546							300	142	168	0	-2272								
			0	25	104	247	1187							176 GEE	39	-33	-290	-2672								
N316201	Naturalis 5,8 g / 90 gr N509	910	776	655									100	0	-124										610	
		2414	1756	1250									167 GEE	37	-51											
		0	35	154																						
4316056	SP 6,5 g / 100 gr E562	910	823	742	665								100	0	-105	-389									610	
		2691	2203	1790	1439								300	130	154	0										
		0	23	95	225								177 GEE	38	-30	-281										
6 mm BR Norma	4316044	Scenar-L 5,8 g / 90 gr GB543	900	828	759	693	511							100	0	-103	-375	-2602								670
			2349	1988	1670	1392	758							300	125	148	0	-1852								
			0	18	76	180	838							600	434	765	926	0								
4316046	Scenar 6,8 g / 105 gr GB478	850	786	724	665	508	420	346					100	0	-118	-423	-2846	-6279	-11962							670
		2457	2100	1783	1504	876	599	407					300	141	164	0	-1999	-5150	-10551							
		0	18	75	177	809	1574	2697					600	474	830	1000	0	-2484	-7218							
4316047	Scenar-L 6,8 g / 105 gr GB542	815	752	692	634	483	398	332					100	0	-134	-473	-3160	-6970	-13287							670
		2258	1924	1627	1368	792	539	374					300	158	182	0	-2213	-5708	-11709							
		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 GB547	845	782	720	660	499	407						100	0	-121	-432	-2909	-6452							660
			2785	2382	2020	1699	970	645						300	144	167	0	-2045	-5300							
			0	18	76	178	826	1622						600	485	849	1023	0	-2573							
4316011	Scenar 8,0 g / 123 gr GB489	850	792	736	681	532	444	362					100	0	-116	-412	-2720	-5919	-11138							660
		2890	2510	2164	1856	1133	787	526					300	137	159	0	-1896	-4819	-9763							
		0	16	67	158	716	1394	2409					600	453	791	948	0	-2292	-6603							
4316016	Scenar-L 8,8 g / 136 gr GB546	800	745	692	641	502	423	355					100	0	-137	-479	-3116	-6744	-12593							660
		2816	2444	2106	1806	1109	786	554					300	160	183	0	-2157	-5466	-10995							
		0	17	72	168	759	1463	2478					600	519	902	1079	0	-2589	-7399							
4316012	Scenar 9,0 g / 139 gr GB458	820	769	719	671	539	459	386					100	0	-125	-439	-2822	-6031	-11115							660
		3026	2662	2328	2029	1308	950	670					300	146	168	0	-1943	-4859	-9650							
		0	15	63	146	653	1257	2143					600	470	815	971	0	-2268	-6411							
N316301	Naturalis 9,1 g / 140 gr N563	807	665	544	450								100	0	-185	-705										660
		2963	2010	1349	922								150 GEE	39	-107	-588										
		0	53	233	565																					
6.5 Creedmoor	4316033	Scenar 8,0 g / 123 gr GB489																								
4316035	Naturalis 9,1 g / 140 gr N563																									
6.5x55 SE	4316033	FMJ 6,5 g / 100 gr S341	830	713	606	510								100	0	-194	-656									600
			2239	1654	1195	845								300	219	244	0									
			0	37	161	394								159 GEE	40	-75	-462									
4316035	Scenar 6,5 g / 100 gr GB504	800	730	664	601	433							100	0	-144	-509	-3504									740
		2080	1733	1433	1176	610							300	170	196	0	-2485									
		0	22	94	223	1047							600	584	1024	1242	0									
4316031	Scenar 7,0 g / 108 gr GB464	900	833	767	703	532	431	341					100	0	-101	-368	-2523	-5618	-10865							740
		2835	2426	2059	1732	989	650	407					300	123	145	0	-1786	-4636	-9637							
		0	17	71	167	773	1529	2690					600	420	740	893	0	-2254	-6659							
4316038	Scenar-L 7,8 g / 120 gr GB547	830	767	705	647	487	397						100	0	-127	-452	-3039	-6744								740
		2687	2294	1941	1630	926	614						300	151	174	0	-2135	-5538								
		0	19	78	184	851	1672						600	506	886	1067	0	-2692								
4316039	Scenar-L 7,8 g / 120 gr GB547	920	855	791	729	557	458	371					100	0	-95	-346	-2359	-5217	-9974							740
		3301	2849	2441	2072	1211	819	538					300	115	136	0	-1667	-4293	-8820							
		0	16	65	154	711	1397	2422					600	393	692	833	0	-2071	-6041							
4316032	Scenar 8,0 g / 123 gr GB489	830	773	717	663	516	429	350					100	0	-124	-438	-2880	-6271	-11822							







## CARTRIDGES - CENTERFIRE RIFLE

● SPORT ● HUNTING ● TACTICAL AMMUNITION

Caliber	Product no.	Bullet name Weight Code	Velocity [fps]							Trajectory [in]							Test barrel length [in]											
			Energy [ft.-lbs.]							Impact point above or below line of sight (Scope 1.6 in above bore line)																		
			Wind drift [in] (Sidewind 13 fps)							Rifle sighted in at [yd]	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd		100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd					
.222 Rem. (5.7x43)	4315020	FMJ 3,6 g / 55 gr S538	2887	2501	2137	1798				100	0	-4	-16				24	100	0	-6	-16							
			1028	772	563	399				300	5	-4	0						300	5	-6	0						
			0	1	5	13				184 PBR	1,6	-1	-11							184 PBR	1,6	-1	-11					
4315030	SP 3,6 g / 55 gr E539	2887	2383	1954	1599				100	0	-5	-18				24	100	0	-5	-18								
		1028	701	471	315				300	6	8	0						300	6	8	0							
		0	2	7	17				178 PBR	1,6	-1	-13							178 PBR	1,6	-1	-13						
N315025	Naturalis 3,2 g / 50 gr N566	3166	2676	2230	1845				100	0	-3	-14				24	100	0	-3	-14								
		1099	785	545	373				300	1,5	0	-9						300	1,5	0	-9							
		0	1.3	5,8	14.3				198 PBR	1,5	0	-9							198 PBR	1,5	0	-9						
.223 Rem.	4315040	FMJ 3,6 g / 55 gr S538	3133	2736	2358	2003				100	0	-3	-12				26	100	0	-3	-12							
			1211	923	686	495				300	4	5	0						300	4	5	0						
			0	1	4	11				192 PBR	1,4	0	-8							192 PBR	1,4	0	-8					
4315011	Scenar 4,5 g / 69 gr GB541	2789	2525	2277	2044	1430				100	0	-4	-14	-105		20	100	0	-4	-14	-105							
		1199	983	800	644	315			300	5	6	0	-76					300	5	6	0	-76						
		0	1	4	8	39			600	18	31	38	0						600	18	31	38	0					
4315015	Scenar-L 4,5 g / 69 gr GB544	2723	2463	2219	1990	1385				100	0	-4	-15	-112		20	100	0	-4	-15	-112							
		1143	935	759	611	296			300	5	6	0	-81					300	5	6	0	-81						
		0	1	4	9	41			600	19	33	41	0						600	19	33	41	0					
.243 Win. (6.16x51)	4316052	FMJ 5,8 g / 90 gr S561	2905	2637	2384	2146	1522				100	0	-3	-13	-95		24	100	0	-3	-13	-95						
			1677	1382	1130	915	460			300	4	5	0	-69					300	4	5	0	-69					
			0	1	3	8	37			192 PBR	1,5	0	-8	-81						192 PBR	1,5	0	-8	-81				
N316201	Naturalis 5,8 g / 90 gr N509	2985	2582	2213					100	0	-4					24	100	0	-4									
		1780	1332	978					300	1,4	-1							300	1,4	-1								
		0	1	5					183 PBR	1,4	-1								183 PBR	1,4	-1							
4316056	SP 6,5 g / 100 gr E562	2985	2724	2479	2246				100	0	-3	-12				24	100	0	-3	-12								
		1984	1653	1368	1123				300	4	5	0						300	4	5	0							
		0	1	3	7				194 PBR	1,4	0	-8							194 PBR	1,4	0	-8						
6 mm BR Norma	4316044	Scenar-L 5,8 g / 90 gr GB543	2950	2733	2525	2325	1772				100	0	-3	-12	-81		26	100	0	-3	-12	-81						
			1729	1485	1267	1074	624			300	4	5	0	-58					300	4	5	0	-58					
			0	1	2	6	27			600	13	24	29	0						600	13	24	29	0				
4316046	Scenar 6,8 g / 105 gr GB478	2740	2549	2364	2187	1710	1439	1205								26	100	0	-4	-14	-93	-203	-380					
		1748	1513	1302	1114	681	482	338										300	5	5	0	-65	-166	-334				
		0	1	3	6	28	53	90											600	15	27	33	0	-79	-226			
4316047	Scenar-L 6,8 g / 105 gr GB542	2674	2485	2303	2128	1661	1396	1169								26	100	0	-4	-15	-98	-215	-403					
		1666	1439	1236	1055	643	454	319										300	5	6	0	-69	-175	-354				
		0	1	3	6	27	53	89											600	16	29	34	0	-83	-239			
6.5x47 Lapua	4316017	Scenar-L 7,8 g / 120 gr GB547	2772	2582	2395	2215	1720	1433								26	100	0	-4	-13	-90	-198						
			2053	1781	1533	1311	790	549											300	4	5	0	-64	-163				
			0	1	2	6	26	51												600	15	26	32	0	-78			
4316011	Scenar 8,0 g / 123 gr GB489	2790	2616	2446	2281	1826	1553	1301								26	100	0	-3	-13	-85	-183	-339					
		2134	1876	1640	1426	914	661	464										300	4	5	0	-59	-149	-297				
		0	1	2	5	23	44	75											600	14	25	30	0	-70	-198			
4316016	Scenar-L 8,8 g / 136 gr GB546	2625	2461	2300	2145	1720	1472	1255								26	100	0	-4	-15	-97	-209	-385					
		2077	1825	1595	1387	892	653	475										300	5	6	0	-68	-169	-336				
		0	1	2	5	24	46	78											600	16	28	34	0	-79	-223			
4316012	Scenar 9,0 g / 139 gr GB458	2690	2537	2387	2242	1839	1594	1366								26	100	0	-4	-14	-88	-188	-342					
		2231	1985	1757	1550	1043	784	576										300	5	5	0	-61	-151	-297				
		0	0	2	5	21	40	67											600	15	26	31	0	-70	-195			
N316301	Naturalis 9,1 g / 140 gr N563	2648	2219	1848	1549											26	100	0	-5,5	-21,4								
		2186	1535	1064	748													300	1,6	-2,4	-17							
		0	2	7	18														165 PBR	1,6	-2,4	-17						
6.5 Creedmoor	4316060	Scenar 8,0 g / 123 gr GB489 <b>NEW!</b>																										
N316401	Naturalis 9,1 g / 140 gr N563 <b>NEW!</b>																											
6.5x55 SE	4316033	FMJ 6,5 g / 100 gr S341	2725	2374	2049	1752										24	100	0	-5	-17								
			1649	1251	932	682													300	6	7	0						
			0	1	5	13													174 PBR	1,6	-2	-13						
4316035	Scenar 6,5 g / 100 gr GB504	2620	2411	2211	2021	1506										29	100	0	-4	-16	-109							
		1529	1294	1088	909	505												300	5	6	0	-77						
		0	1	3	7	33												600	18	32	39	0						
4316031	Scenar 7,0 g / 108 gr GB464	2950	2748	2550	2358	1832	1521	1238								29	100	0	-3	-11	-78	-173	-328					
		2087	1811	1560	1333	805	555	367										300	4	5	0	-56	-142	-290				
		0	1	2	5	25	48	83										600	13	23	28	0	-68	-197				
4316038	Scenar-L 7,8 g / 120 gr GB547	2723	2534	2348	2170	1681	1399									29	100	0	-4	-14	-94	-207						
		1981	1715	1474	1258	755	523											300	5	5	0	-66	-170					
		0	1	3	6	27	53											600	16	28	33	0	-81					
4316039	Scenar-L 7,8 g / 120 gr GB547	3018	2822	2631	2443	1919	1609	1335								29												



CARTRIDGES - CENTERFIRE RIFLE													SPORT HUNTING TACTICAL AMMUNITION				
Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [in]							Test barrel length [in]					
			Energy [ft.-lbs.]		Impact point above or below line of sight (Scope 1.6 in above bore line)												
			Wind drift [in] (Sidewind 13 fps)		Rifle sighted in at [yd]												
0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd					
7.62x53R cont.	4317502	Mega 12,0 g / 185 gr E415	2510	2245	1996	1765									24		
			2588	2071	1637	1280	100	0	-5	-19							
8x57 IRS	N318010	Naturalis 11,7 g / 180 gr N559	2625	2377	2139	1916									24		
			2762	2266	1835	1471	100	0	-5	-17							
8x57 IS	N318009	Naturalis 11,7 g / 180 gr N559	2690	2441	2200	1972									24		
			2901	2388	1940	1559	100	0	-4	-16							
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	3018	2764	2515	2276	1651								27		
			4681	3925	3251	2663	1401	100	0	-3	-11	-83					
			0	1	3	7	32	300	4	5	0	-61					
			0	0	2	4	16	600	11	20	24	0	-7	-75			
			2970	2823	2680	2539	2141	1896	1666	100	0	-3	-10	-68	-143	-256	27
			4896	4424	3985	3579	2545	1994	1540	300	3	4	0	-47	-115	-222	
			0	0	2	4	16	30	50	600	11	20	24	0	-52	-143	
			2953	2802	2652	2504	2080	1816	1568	100	0	-3	-11	-70	-148	-268	27
			4840	4356	3902	3479	2401	1831	1365	300	4	4	0	-49	-120	-233	
			0	0	2	4	17	33	55	600	12	20	24	0	-55	-152	
4318035	Armor Piercing 16,1 g / 248 gr AP485	Naturalis 11,7 g / 180 gr N559	2970	2800	2635	2475	2030	1764	1520	100	0	-3	-11	-73	-152	-278	27
			4866	4324	3829	3379	2274	1716	1275	300	4	4	0	-50	-124	-243	
0	0	2	4	19	36	61	600	12	21	25	0	-57	-159				
4318048	Armor Piercing Incendiary 16,4 g / 253 gr API526	Naturalis 11,7 g / 180 gr N559	2935	2769	2608	2452	2017	1756	1518	100	0	-3	-11	-73	-155	-283	27
			4840	4308	3821	3377	2287	1733	1295	300	4	4	0	-51	-126	-246	
0	0	2	4	19	36	60	600	12	21	25	0	-58	-161				
4318013	Scenar 19,4 g / 300 gr GB528	Naturalis 11,7 g / 180 gr N559	2723	2600	2482	2367	2042	1842	1653	100	0	-4	-13	-80	-165	-291	27
			4938	4504	4102	3731	2778	2259	1819	300	4	5	0	-54	-131	-249	
0	0	2	4	15	28	46	600	13	23	27	0	-58	-158				
43M8011	Lock Base 16,2 g / 250 gr B408	Naturalis 11,7 g / 180 gr N559	2690	2573	2457	2343	2017	1812	1616	100	0	-4	-13	-82	-170	-300	27
			4811	4399	4012	3312	2704	2181	1736	300	4	5	0	-56	-135	-256	
0	0	2	4	16	30	50	600	14	24	28	0	-60	-163				
43M8055	Armor Piercing 19,4 g / 300 gr AP529	Naturalis 11,7 g / 180 gr N559	2723	2595	2470	2347	2000	1788	1591	100	0	-4	-13	-81	-169	-301	27
			4938	4486	4063	3669	2664	2128	1687	300	4	5	0	-56	-135	-258	
0	0	2	4	17	32	54	600	14	24	28	0	-61	-165				
9.3x62	N319204	Naturalis 16,2 g / 250 gr N560	2428	2230	2040	1861				100	0	-5	-19			24	
			3272	2761	2310	1922				164 PBR	1,6	-2	-14				
0	1	3	8														
4319010	Mega 18,5 g / 285 gr E433	Naturalis 11,7 g / 180 gr N559	2265	2029	1809	1606				100	0	-7	-24			24	
			3246	2606	2071	1632				153 PBR	1,6	-4	-20				
0	1	5	11														

AP and API ammunition are available for military and law enforcement use only.

TACTICAL CARTRIDGES - .308 WINCHESTER													1) NOTE: Required twist is 1 turn in 10" or faster. Maximum barrel length 18".					
Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [Inch]							Test barrel length [inch]						
			Energy [ft.-lbs.]		Impact point above or below line of sight (Scope 1.6 in above bore line)													
			Crosswind drift [in] (Sidewind 13 fps)		Rifle sighted in at [yd]													
0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	100 yd	200 yd	300 yd	600 yd	800 yd.	1000 yd						
.308 Win. (7.62x51)	4317538	Lock Base 9,72 g / 150 gr B466	2790	2581	2379	2180	1615	1260							26			
			2592	2219	1884	1583	868	529		100	0	-4	-13	-93	-210			
			0	1	3	6	30	61		300	4	5	0	-66	-174			
	4317073	Scenar 10,0 g / 155 gr GB491	Naturalis 11,7 g / 180 gr N559	2820	2621	2428	2243	1735	1439	1182	100	0	-3	-13	-87	-192	-365	26
				2725	2354	2020	1723	1031	710	478	300	4	5	0	-62	-158	-323	
				0	1	2	6	26	52	89	600	15	26	31	0	-76	-220	
	4317598	Armor Piercing 10,7 g / 165 gr AP492	Naturalis 11,7 g / 180 gr N559	2820	2610	2404	2205	1660	1336		100	0	-4	-13	-91	-203	-380	26
				2915	2497	2119	1782	1010	654		300	4	5	0	-65	-168	-352	
				0	1	3	7	34	69		600	15	27	32	0	-82	-244	
	4317515	Scenar 10,85 g / 167 gr GB422	Naturalis 11,7 g / 180 gr N559	2690	2491	2297	2110	1595	1295		100	0	-4	-15	-99	-221		26
2690				2307	1962	1656	945	623		300	5	6	0	-70	-183			
0				1	3	6	30	59		600	17	29	35	0	-89			
4317596 HPS	Lock Base 11,0 g / 170 gr B476	Naturalis 11,7 g / 180 gr N559	2756	2573	2391	2213	1708	1393		100	0	-4	-13	-91	-200		26	
			2867	2498	2157	1848	1101	733		300	4	5	0	-64	-164			
			0	1	2	6	27	54		600	15	27	32	0	-79			
43M7600 SEMI-AUTO	Lock Base 11,0 g / 170 gr B476	Naturalis 11,7 g / 180 gr N559	2444	2265	2090	1921	1439	1141		100	0	-5	-18	-123	-273		16	
			2047	1757	1497	1264	709	446		300	6	7	0	-86	-224			
			0	1	4	8	38	78		600	20	36	43	0	-109			
4317520	Scenar-L 11,3 g / 175 gr GB550	Naturalis 11,7 g / 180 gr N559	2602	2423	2248	2078	1615	1350		100	0	-4	-16	-104	-226		26	
			2621	2273	1957	1672	1010	705		300	5	6	0	-73	-185			
			0	1	3	6	28	54		600	17	30	36	0	-88			
4317523	Scenar 12,0 g / 185 gr GB432	Naturalis 11,7 g / 180 gr N559	2475	2299	2128	1962	1512	1254		100	0	-5	-18	-116	-255		26	
			2518	2174	1861	1583	940	647		300	6	7	0	-81	-208			
			0	1	3	7	31	60		600	19	34	41	0	-100			
N317105	Naturalis 11,0 g / 170 gr N558	Naturalis 11,7 g / 180 gr N559	2625	2376	2138	1916				100	0	-5	-17			26		
			2596	2128	1723	1383				300	-6	1	0					
4317590	D46 12,0 g / 185 gr D46	Naturalis 11,7 g / 180 gr N559	2490	2322	2159	2000	1558	1296		100	0	-5	-17	-112	-244		26	
			2549	2216	1916	1645	998	690		300	6	7	0	-78	-199			
			0	1	3	6	28	56		600	19	33	39	0	-95			
4317340	Subsonic 13,0 g / 200 gr B416	Naturalis 11,7 g / 180 gr N559	1066	1017	977	941				100	0	-32	-100			16 <sup>1)</sup>		
			506	461	425	394				300	33	35	0					
0	1	4	9				600											

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TACTICAL CARTRIDGES - .338 LAPUA MAGNUM																						
Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [inch]										Test barrel length [inch]							
			Energy [ft.-lbs.]		Impact point above or below line of sight (Scope 1.6 in. above bore line)																	
			Crosswind drift [in] (Sidewind 9 mph)		Rifle sighted in at [yd]																	
0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd						
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	3018	2764	2515	2276	1651											27				
			4681	3925	3251	2663	1401															
			0	1	3	7	32															
	4318017	Scenar 16,2 g / 250 gr GB488	Naturalis 11,7 g / 180 gr N559	2970	2823	2680	2539	2141	1896	1666	1453	1171	100	0	-3	-10	-68	-143	-258	-420	-797	27
				4896	4424	3985	3579	2545	1994	1540	1172	761	300	3	4	0	-47	-116	-223	-379	-746	
	0</																					



## COMPONENTS - CENTERFIRE RIFLE

CALIBER	BRASS CASES		BULLETS											
	Product No.	Designation	Product No.	Bullet name	Product code	Type	Bullet diameter		Weight		Ballistic coefficient	Ballistic coefficient		
							mm	in	g	grs				BC G1
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 5005	FMJ	S538	FMJ	5.69	.224	3.60	55	0.235		•	
	4 PH 5004	.221 Rem. Fireball	4 PL/HL 5011	Scenar	GB541	OTM	5.69	.224	4.50	69	0.341	0.171	•	
	4 PH 5013	.220 Russian	4 PL/HL 5012	Scenar	GB527	OTM	5.69	.224	5.00	77	0.386	0.193	•	
	4 PH 5001	.22-250 Rem.	4 PL/HL 5015	Scenar-L	GB544	OTM	5.69	.224	4.50	69	0.341	0.171	•	
				4 PL/HL 5016	Scenar-L	GB545	OTM	5.69	.224	5.00	77	0.386	0.193	•
				N PL 5001	Naturalis	N566	CEX	5.69	.224	3.20	50	*		
				N PL 6201	Naturalis	N509	CEX	6.16	.243	5.80	90	0.230		
6 mm (.243)	4 PH 6009	.243 Win.	4 PL/HL 6046	Open Tip	G490	OT	6.18	.243	5.00	77	0.319		•	
	4 PH 6046	6 mm BR Norma	4 PL/HL 6045	Scenar	GB478	OTM	6.18	.243	6.80	105	0.472	0.236	•	
	4 PH 6022	6 mm Creedmoor <b>NEW!</b>	4 PL/HL 6055	Scenar-L	GB543	OTM	6.18	.243	5.80	90	0.434	0.216	•	
			4 PL/HL 6050	Scenar-L	GB542	OTM	6.18	.243	6.80	105	0.472	0.236	•	
				4 PL/HL 6014	FMJ	S341	FMJ	6.71	.264	6.50	100	0.250		
6.5 mm (.264)	4 PH 6012	6.5 x 55 SE	4 PL/HL 6015	Cutting Edge FMJ	S496	FMJCE	6.71	.264	6.50	100	0.250			
	4 PH 6030	6.5 - 284	4 PL/HL 6033	Scenar	GB504	OTM	6.71	.264	6.50	100	0.424	0.212	•	
	4 PH 6010	6.5 x 47 Lapua	4 PL/HL 6020	Scenar	GB464	OTM	6.71	.264	7.00	108	0.465	0.231	•	
	4 PH 6020	6.5 Grendel	4 PL/HL 6032	Scenar	GB489	OTM	6.71	.264	8.00	123	0.527	0.263	•	
	4 PH 6050	.260 Rem.	4 PL/HL 6018	Scenar	GB458	OTM	6.71	.264	9.00	139	0.578	0.290	•	
	4 PH 6011	6.5 Creedmoor	4 PL/HL 6021	Scenar-L	GB547	OTM	6.71	.264	7.80	120	0.497	0.246	•	
			4 PL/HL 6019	Scenar-L	GB546	OTM	6.71	.264	8.80	136	0.545	0.274	•	
			4 PL/HL 6000	FMJ	B343	FMJBT	6.71	.264	9.30	144	0.636			
			4 PL 6010	Mega	E471	SP	6.71	.264	10.10	155	0.377			
			N PL 6203	Naturalis	N563	CEX	6.71	.264	9.10	140	0.201		•	
	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		
				4 PL/HL 7224	Cutting Edge OT	G477	OTCE	7.83	.308	6.50	100	0.170		
7.62 mm (.308)	4 PH 7052	.300 AAC Blackout	4 PL/HL 7003	FMJ	S374	FMJ	7.83	.308	8.00	123	0.270		•	
	4 PH 7217	.308 Win.	4 PL/HL 7073	Scenar	GB491	OTM	7.83	.308	10.00	155	0.460	0.230	•	
	4 PH 7068	.30-06 Spring.	4 PL/HL 7069	Scenar	GB422	OTM	7.83	.308	10.85	167	0.446	0.223	•	
	4 PH 7215	7.62 x 53R	4 PL/HL 7071	Scenar	GB432	OTM	7.83	.308	12.00	185	0.482	0.242	•	
	4 PH 7226	.308 Win. Palma	4 PL/HL 7063	Scenar-L	GB552	OTM	7.83	.308	10.00	155	0.460	0.230	•	
	4 PH 7090	.300 Norma Mag.	4 PL/HL 7061	Scenar-L	GB550	OTM	7.83	.308	11.30	175	0.490	0.247	•	
			4 PL/HL 7062	Scenar-L	GB551	OTM	7.83	.308	14.30	220	0.647	0.324	•	
			4 PL/HL 7091	Lock Base	B466	FMJBT	7.83	.308	9.72	150	0.434	0.217	•	
			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	7.83	.308	12.00	185	0.319			
			4 PL 7047	Mega	E401	SP	7.83	.308	13.00	200	0.344			
			N PL 7105	Naturalis	N558	CEX	7.83	.308	11.00	170	0.354	0.177	•	
	7.62 mm (.311)	4 PH 7074	7.62 x 39	4 PL/HL 7005	D166	D166	FMJBT	7.87	.310	13.00	200	0.448	0.224	•
				4 PL/HL 7045	FMJ	S405	FMJ	7.91	.311	8.00	123	0.257		•
			N PL 8009	Naturalis	N559	CEX	8.20	.323	11.70	180	0.357	0.179	•	
8 mm (.323)	4 PH 8030	8 x 57 IS												
	4 PH 8031	8 x 57 IRS												
8.61 mm (.338)	4 PH 8068	.338 Lapua Mag.	4 PL/HL 8012	Lock Base	B408	FMJBT	8.60	.338	16.20	250	0.625	0.310	•	
	4 PH 8090	.338 Norma Mag.	4 PL/HL 8011	Lock Base	B557	FMJBT	8.60	.338	19.44	300	0.765	0.383	•	
			4 PL 8017	Scenar	GB488	OTM	8.60	.338	16.20	250	0.648	0.322	•	
			4 PL 8013	Scenar	GB528	OTM	8.60	.338	19.44	300	0.736	0.368	•	
			N PL 8020	Naturalis	N508	CEX	8.60	.338	15.00	231	0.373		•	
			4 PL 9017	Mega	E433	SP	9.30	.366	18.50	285	0.339			
9.3 mm (.366)	4 PH 9050	9.3 x 62	N PL 9204	Naturalis	N560	CEX	9.30	.366	16.20	250	0.419	0.215	•	
			4 PL 1271	Bullex-N	BNS	SOLID	12.70	.50	48.60	750	0.960			
.50 (12.7 mm)	4 PH 1200	.50 Browning	4 PL 1272	Bullex-N	BNS	SOLID	12.70	.50	51.80	800	0.980			

• Ballistic coefficients are based on Doppler radar data and calculated by Quick Target Unlimited Lapua Edition from  $V_0$  to  $V_{100}$

## COMPONENTS - CENTERFIRE HANDGUN

CALIBER	BRASS CASES		BULLETS									
	Product No.	Designation	Product No.	Bullet name	Product code	Type	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	
9 mm (.355)	4 HH 9030	9 mm Luger	4 PL/HL 9016	FMJ	R381	FMJ	9.02	.355	8.00	123	0.125	

Bullet abbreviations  
 CEX - Controlled Expansion, FMJ - Full Metal Jacket,  
 FMJBT - Full Metal Jacket Boat Tail, OT - Open Tip, OTCE - Open Tip  
 Cutting Edge, LWC - Long Wadcutter, OTM - Open Tip Match,  
 SP - Soft Point.

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