



# PRODUCT CATALOG

2020 English

*Passion for Precision*

**NEW!**

- > 6.5 Creedmoor Large Rifle Primer Cases
- > Hermetically Sealed Hunting Ammunition

# LAPUA® PRODUCT CATALOG

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Karl Olsson,  
 300 m World  
 Record holder.  
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*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**

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

**Certified**

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

Part of Nammo Group

**PASSION FOR PRECISION**

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

Serious hand loaders and shooters seek to match the perfect cartridge to their firearm. The team here at Lapua understands this, and has made our "Passion for Precision" the guide for everything we build. We know that our precision crafted bullets and brass are just the beginning, we then combine those components using our depth of experience and state of the art manufacturing to produce ammunition that is unrivaled for its precision, consistency, and downrange performance.

Competitive shooters, hunters, and Military / Law Enforcement operators understand that cheap ammunition will never achieve their desired outcome. They insist on ammunition that produces unmatched accuracy, reliable ignition, optimized muzzle velocities, and superior ballistics. Expect what professionals around the world trust and experience our "Passion for Precision."



# HERMETICALLY SEALED CARTRIDGES

FOR TOP RESULTS IN ANY CONDITIONS – THE LAPUA HERMETICALLY SEALED CARTRIDGE STAYS SAFE FROM MOISTURE



## COME RAIN OR SHINE

Lapua is constantly developing new technologies to ensure our products meet the highest possible quality standards. Our latest improvement is the hermetically sealed cartridge - a unique offering on the market. In practice, this automated process creates a seal on the seams of the cartridge, between the case and bullet as well as the primer and case.

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

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



# 6.5 CREEDMOOR LRP



## 6.5 CREEDMOOR LARGE RIFLE PRIMER

New for 2020, Lapua is pleased to announce the release of 6.5 Creedmoor Large Rifle Primer (LRP) cases for shooters demanding the best quality from hand loads. The 6.5 Creedmoor LRP offering provides reliable ignition with a large primer in the most extreme weather conditions for hunting, competitive shooting, or military / law enforcement support. It also functions and performs flawlessly in today's ever-popular semi-auto gas guns, AR's, and other similar platforms predominantly used in the US market place.

Like all other Lapua cartridge cases, the 6.5 Creedmoor LRP cases are built with the finest materials to the most exacting tolerances. Its consistency and quality are unmatched by all others.



# TEAM LAPUA

## HALL OF FAME

Since 1930, the competitive road for Lapua has been paved with gold. Lapua products have been used to win over 100 Gold Medals in the Olympics and World Championships. From junior level competitors to military shooting disciplines, Lapua cartridges and components have been the common denominator on the winners podium.



## USA

- F-Class** – Erik Cortina
- HP Long Range** – Kent Reeve
- HP XTC** – Stephen Culpepper, Jeff Lindblom
- Benchrest** – Jack Neary
- Rimfire Benchrest** - Joe Besche, Brain Brandt, Maddisyn Reed
- Rifle Silhouette** – Mark Pharr, Cathy Winstead-Severin
- PRS** – Matt Brousseau (Centerfire), Erik Cortina (Centerfire)
- Rimfire Prone** – Kevin Nevius, Nancy Tompkins
- International 300 Meter** – Lisette Grunwell-Lacey
- Bullseye Pistol** – Philip Hemphill, Keith Sanderson
- Palma** – Nate Guernsey

## 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)



Many of the world's best shooters are members of Team Lapua. As Lapua's brand ambassadors, Team Lapua members listen to competitor needs, collaborate with our R&D teams and partner with industry professionals to ensure our components ammunition continue to be the best in the world.

## HIGHLIGHTS OF 2019

### USA SUCCESS

- Kevin Nevius** – Prone (Rimfire and Centerfire), Palma
- World Championships USA Palma Team Firing Member – Bronze
  - NRA Smallbore Metric Nationals Team Member - Champions

- Matthew Brousseau** – Precision Rifle Series (Centerfire)
- Punisher Positional – 1st
  - K&M Precision Rifle Competition – 2nd
  - Best in Texas PRS Match – 2nd
  - Silent Night NRL Match – 1st

- Jack Neary** – Benchrest (Centerfire)
- World Benchrest Championship US Team - Gold
  - World Benchrest Championship Light Varmint – Silver
  - **World Benchrest Championship Single Group 200 yd Record**
  - Super Shoot Light Varmint – 1st
  - IBS Group Nationals Light Varmint – 2nd

- Keith Sanderson**
- USAS RFP National Championship – 1st
  - NRA National Pistol Championship – 1st
  - NRA National Pistol CF Championship – 1st
  - NRA National Pistol .45 Caliber Championship – 1st
  - NRA National Pistol 4-Member Team Championship – 2nd
  - NRA National Pistol .22 Caliber Team Championship – 1st
  - NRA National Pistol .45 Caliber Team Championship – 2nd

- Lisette Grunwell-Lacey**
- NRA Outdoor National Conventional Pistol .22 – 2nd Woman
  - NRA Outdoor National Metric Prone Championships – Team Match – 2nd
  - NRA Outdoor National Metric Prone Irons Championships – Team Match – 2nd

- Brian Brandt** – Benchrest (Rimfire)
- Missouri State Tournament – 1st
  - Arkansas State Tournament – 2nd
  - ARA Nationals – 5th

- Mark Pharr** – Rifle Silhouette (Rimfire & Centerfire)
- Texas Championship, SB Hunter Rifle – High Senior
  - Texas Championship, HP Hunter & Standard Rifle – 2nd Master
  - Nationals Smallbore Hunter Rifle Team – Champions
  - Nationals Highpower Standard Rifle Team – Champions
  - Nationals Smallbore Standard Rifle – 2nd

- Philip Hemphill** – Bullseye Pistol (Rimfire & Centerfire)
- NRA National Pistol Championship – High Senior, High Law Enforcement
  - NRA National .22 Caliber Pistol Championship – Champion
  - NRA National .45 Caliber Pistol Championship – High Law Enforcement
  - NRA National Pistol 4-Member Team Championship – 2nd
  - NRA National Pistol .22 Caliber Team Championship – 1st
  - NRA National Pistol .45 Caliber Team Championship – 2nd

- Jeff Lindblom** – High Power Rifle (Centerfire)
- New England Regional High Power Championship – 1st

- Erik Cortina** – F-Class & PRS (Centerfire)
- Texas State Long Range Championship – 1st
  - NRA F-Class Long Range Nationals Team – 1st
  - Berger Southwest Nationals Team – 1st

Check [lapua.com](http://lapua.com) for more information about the Lapua Team members!

### WORLD SUCCESS

- World Benchrest Championship 2019, Canada**  
Standard Rifle
- **Jari Laulumaa, FIN** - World Champion

- IPSC Rifle World Shoot 2019, Sweden**  
Standard Rifle
- **Sami Hautamäki, FIN** - World Champion

- World Junior Championships 2019**  
RF International Sporter
- **Aappo Korpi, FIN** - World Junior Champion

- 21st European Metallic Silhouette Championship 2019**  
Big Bore Hunting, Big Bore Silhouette, Small Bore Silhouette
- **Marko Nikko, FIN** - European Champion

- ESC European Championships 2019**  
25 m Pistol Women
- **Monika Karsch, GER** - European Champion

- Lapua European Cup Final**  
300 m Standard Rifle Men
- **Peter Sidi, HU** - EC Champion
  - **Peter Sidi, HU** - EC Champion
  - **Eva Rösken, GER** - EC Champion

- ISSF World Cup Final**  
25 m Rapid fire Pistol Men
- **Christian Reitz** - Silver

- BIATHLON SEASON 2018-2019**  
IBU WC 2018-2019 & WCH 2019
- 87 % out of all medals were taken with Lapua!

# Lapua® RIMFIRE CARTRIDGES

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

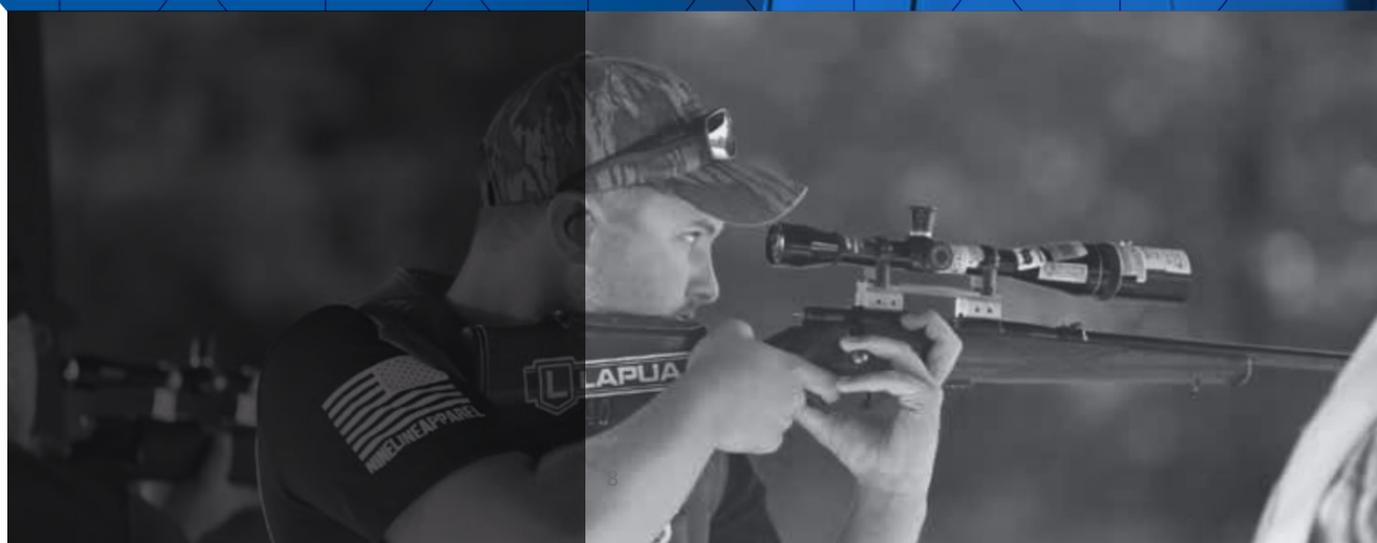
## THE HISTORY OF LAPUA .22 LR RIMFIRE

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

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

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

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



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



## RIMFIRE PERFECTION

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

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

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

### 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.

### BIATHLON XTREME

#### The new best friend of the Biathletes

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

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





# THE LAPUA CLUB REWARDS ITS MEMBERS

Lapua Club provides exclusive offers to its membership. There are currently over 20,000 members, and more than 100 new members joining each week. Becoming a member is easy – register using the QR code on any Lapua product packaging. By registering your purchases, members may participate in product development surveys, prize campaigns, and more! Members also gain access to more detailed Lapua product information, for example, trajectory charts for all cartridges. In addition, members may share their own Lapua success stories in the Lapua Club Story room – a feature unique to only Lapua membership. Join today at [www.club.lapua.com](http://www.club.lapua.com)



Join the Club today, win prizes, and share your stories and passion with other fans! Read more at [www.club.lapua.com](http://www.club.lapua.com)

## LAPUA MOMENTS



Maddi Reed and Joe Besche.



Luke Johnson.



Keith Sanderson.



Nancy Tompkins.



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

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



## Lapua success with X-ACT AND CENTER-X

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



## 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

### LAPUA TEST LAB:

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

## SCHÖNEBECK, GERMANY

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

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

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

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

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

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

## MESA, ARIZONA, USA

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

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

BOOKING: Tel. +1 480 898 2731  
Daniel Cliff, rimfiretest@capstonepg.com

## MARENGO, OHIO, USA

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

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

BOOKING: Tel. +1 480 898 2748  
Luke Johnson, rimfiretesteast@capstonepg.com

## ROYKEN, NORWAY

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

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

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

Test Lapua .22 LR ammunition in your firearm at

# MESA RIMFIRE PERFORMANCE CENTER

The Lapua Rimfire Performance Center is located at the headquarters of the Capstone Precision Group, exclusive U.S. distributor of Lapua components and ammunition. It's located in Mesa, AZ and equipped with state of the art Meyton testing technology. At the Lapua Rimfire Performance Center, a competitive shooter, accuracy enthusiast, or team will find everything they need as they seek to derive perfect performance and accuracy from their firearm. The center offers a wide selection of test ammunition from multiple lots to enable a perfect match of ammo to firearm. Additionally, return to battery rests and indoor controlled environmental conditions will help to ensure that once an ammunition is matched to a firearm, its performance will hold up in the rigors of competition.



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

*Daniel Cliff, Rimfire Performance Center Manager*



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



# Lapua® CENTERFIRE CARTRIDGES AND COMPONENTS

Serious hand loaders and shooters seek to match the perfect cartridge to their firearm. We build and combine our finest components using state of the art manufacturing to produce ammunition that is unrivaled for its precision, consistency, and downrange performance. World renowned quality you can trust.

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

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

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



*At the 7th CISM Military World Games 2019 in Wuhan, China, more than 95 % 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.

SPORT



*John Whidden*



*Team Lapua member Stephen Culpepper 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).*

## Top shooters choose Lapua

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



## 6.5 CREEDMOOR

Lapua 6.5 Creedmoor match-grade ammunition is tailored to specifically meet the demanding needs of today's long-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 123 gr Scenar and 140 gr Naturalis, that provide exceptional performance across a broad range of applications.



## .222 REMINGTON

**The cartridge with inherent accuracy - .222 Remington**

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



## .223 REMINGTON

**The Lapua .223 Remington match ammunition has been designed to meet the strict demands of competitive shooting.** It is one of the most popular centerfire rifle cartridges in the world. It is today one of the most common rifle rounds in use in the U.S., especially among varmint hunters and 3-gun sport shooters. This caliber offers tremendous versatility, thanks to a very wide selection of bullet types and weights. For targets beyond 600 m and practical matches, Lapua offers the perfect bullet in this caliber.



## 6.5X55 SE

**Accurate and versatile.** Especially popular in the Scandinavian countries, including 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 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.



# TEAM LAPUA WINS AT NRA National Pistol Championship



Keith Sanderson (USA)

With Lapua's Philip Hemphill and Keith Sanderson competing in the 2019 NRA National Precision Pistol Championship, Team Lapua was set to walk away with a trophy or two.

Three-time Olympian and Team Lapua member, Keith Sanderson was crowned the 2019 NRA National Pistol Championship. Sanderson had previously held the National Pistol Championship in 2015. Taking place at Camp Perry, Ohio, Sanderson brought home the Harrison Trophy with a score of 2647-111X. Sanderson also shot and took first place in the Center Fire Championship, and the .45 Caliber Championship.

Team Lapua member Philip Hemphill scored a 888-49X to bring home the 2019 NRA .22 Caliber Pistol Championship, shooting a Lapua Center-X .22LR Rimfire ammunition.

Along with receiving the Walker Trophy Plaque for winning the Championship, Hemphill also won the NRA Precision Pistol Championship – Police Division, and came in 3rd in the 22 Caliber Slow Fire Match with a score of 194-9X.

Shooting in the team events at the National Pistol Champion, Hemphill and Sanderson, shot on Team Zero. Team Zero competed in the Center Fire Team Championship, 4-Member Pistol Team, .45 Caliber Team Championship, and .22 Caliber Team Championship. Team Zero took first place in the Center Fire Team and .22 Caliber Team Championship. "My whole team, Team Zero, shoots Lapua Center-X, because we know it will outperform all other .22 caliber competition ammo," said Hemphill.

# KARL OLSSON

Karl Olsson (SWE), Team Lapua member and 300 m World Record holder: "You can make the perfect preparations but if your mind is not there on that given day you don't stand a chance."

"I'm originally from a small town in the south of Sweden and the shooting club was at the time strong. I think most kids in town tried air rifle at some time. I was never a talent but enjoyed the atmosphere and the people in the club. We had a lot of fun traveling to competitions all over the country. Focus back then was mostly on our national style 300 meter shooting calibre 6,5x55. That focus later switched to the ISSF events on 10 and 50 meter but in the last few years I have once again discovered the joy of 300 meter shooting. My favorite Lapua ammunition is without a doubt the Lapua Scenar 6 mm BR. No matter which batch I pick I know I can trust the ammo in any weather condition. It has given me a lot of self-confidence.

Coming back to 300 meter shooting around 2015 I was really struggling with the standard rifle 3x20 event. Slowly I started to understand what it was all about and learned to master the heavier trigger and the limited adjustment possibilities of the rifle. That journey has been a lot of fun and it is an indescribable feeling to fight for medals in big championships with all the stress and adrenaline it brings.

Making competition memories with your team mates is something I wish for any competitive shooter. At this year's European championship Sweden had a strong prone team with Johan Gustafsson, Per Sandberg and me. Prone is always a close match and the competition is tough. We were four points down before I stepped in to the competition as the last shooter. It was just one of those days when everything was there.



Karl Olsson (SWE)

Shooting a perfect score of 600 and helping my team break the 18 year old World Record was pretty cool.

I think most competitive shooters have been multiple world champions back home in a safe training environment. But competitive shooting is all about winning medals when it counts. What it comes down to besides perfect equipment and body control is mind control. You can make the perfect preparations but if your mind is not there on that given day you don't stand a chance.

My tip for someone aspiring to be a top competitive shooter is: Be a team player. Learn from other shooters, share your own thoughts and experiences and make sure to have a lot of fun. After all, it is just a sport."



# 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.*



## 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 performance with even less recoil.

*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.*

## .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.



## .220 RUSSIAN

**The king of reloading - Lapua's .220 Russian**

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



## .222 REMINGTON

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



## .223 REMINGTON

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



## .22-250 REMINGTON

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

## 6MM BR NORMA



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



## .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 offer the 6.5 Creedmoor with the small rifle primer which normally produces an optimized ignition and better accuracy in mid-sized cartridges, as well as the large rifle primer version.



## 6.5 GRENDEL

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



## 6.5X47 LAPUA

**A true masterpiece.** The 6.5x47 Lapua case has base diameter and loading length similar to the .308 Win., allowing it to accept the same bolt heads and fit into similar actions and magazines. Lapua's 6.5x47 case is also the parent case of several popular wildcats, and is frequently necked down to 6mm.



### .260 REMINGTON

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



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



### .338 NORMA MAGNUM

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



### 9.3X62

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



# Precision projectiles

## LAPUA BULLETS

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



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

The Lapua D46 was developed over 80 years ago in the 1930s, and to this day, is still one of the best FMJ bullets available. While Lapua bullet development has focused on high pressure rounds and hollow point designs, the proven track record of the D46 has maintained it as a relevant segment of the Lapua product line to-date. Lapua hasn't rested on its laurels however, with the introduction of the Scenar-L, the ultimate match rifle bullet as well as the third generation, lead-free NATURALIS line of hunting bullets, there is a Lapua bullet carefully matched to any shooting pursuit.

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

*Read more about Lapua's OTM Scenar bullets on 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.

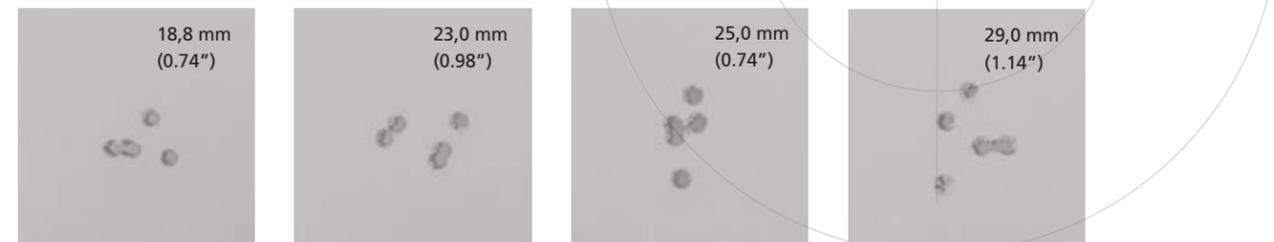
### THE SCENAR-L BULLET

Several new proprietary machines, manufacturing steps, and advanced instrumentation 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/resources/lapua-ballistics-app/](http://lapua.com/resources/lapua-ballistics-app/) for details.

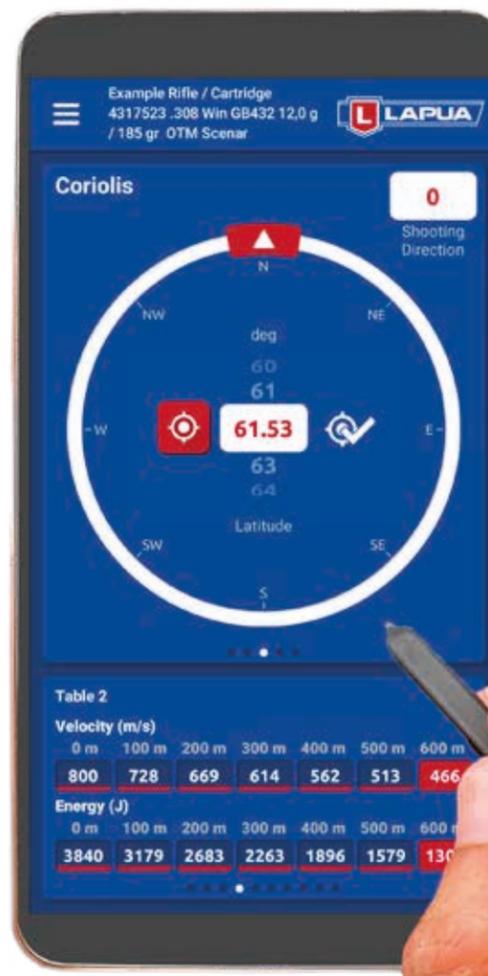


Lapua Ballistics is the ultimate 6DOF ballistics tool for mobile devices. Lapua Ballistics is the first mobile ballistics app utilizing the 6DOF calculation model, which makes it the most accurate ballistics app on the market. Lapua Ballistics always offers the latest, Doppler proven Lapua cartridge 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



The Lapua Ballistics App is available for Android and iOS mobiles free of charge.



#### 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/resources/downloads/](http://lapua.com/resources/downloads/)





# Lapua® TACTICAL AMMUNITION

Lapua is world renowned for offering the highest quality ammunition for Elite Forces and Military / Law Enforcement professionals around the globe. All of Lapua's Tactical ammunition is produced to the same match-grade requirement as our target ammunition.

### The highest manufacturing standards.

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

### The most accurate long-range cartridges.

The accuracy and reliability of Lapua's tactical ammunition is renowned worldwide. Each cartridge is manufactured with the same unconditional precision and care as our leading sport shooting target ammunition. Our pinnacle of precision and quality is the .338 Lapua Magnum, which has an effective range out to 1500 meters. Despite this, the .338 Lapua Magnum operating systems are about the same size and weight as the 7.62mm systems. It's considerably lighter than the .50 caliber system making it an exceptional alternative to either platform.

## .338 Lapua Magnum THE ORIGINAL

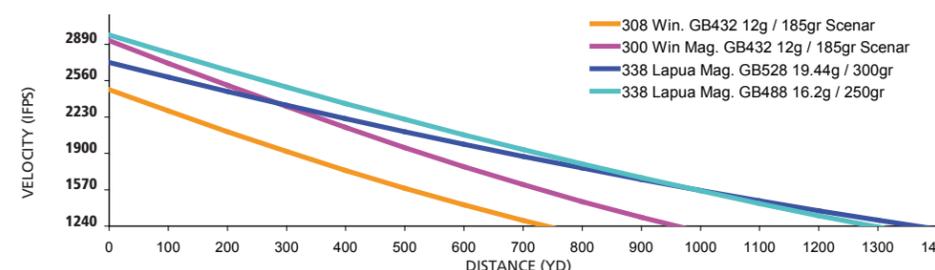
The Original Lapua Magnum .338 is currently the best choice for long range sniper applications, extending the operator's range to well beyond one kilometer.

.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.

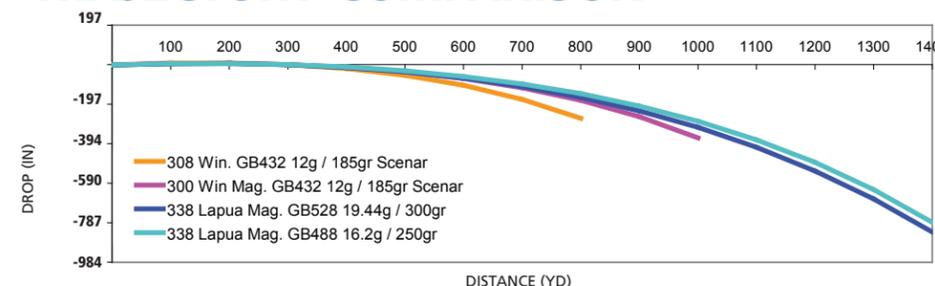
.338 Lapua Magnum cartridges are also offered in 300 gr. (19.4 g), including the GB528 Scenar, B557 Lock Base, and AP529 Armor Piercing, extending accuracy and penetration capabilities at longer ranges.

### VELOCITY COMPARISON



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 yd. The .338 Lapua Magnum comes factory loaded with a choice of world leading precision bullets.

### TRAJECTORY COMPARISON



TACTICAL

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





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



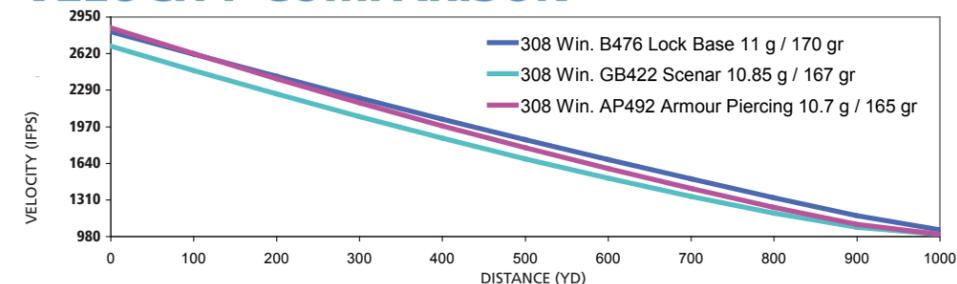
.308 Winchester (7.62x51mm NATO) possesses mild recoil, good terminal ballistics, and an effective range of 800 meters (875 yards). This versatility is the reason the caliber remains the most popular choice for use in law enforcement and military sniping applications.

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.

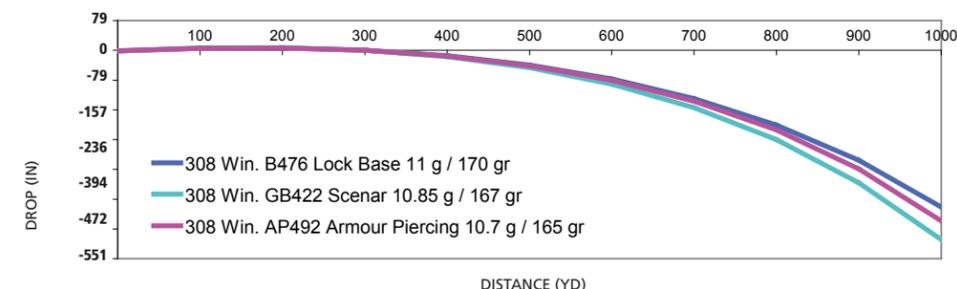
Since the introduction of the legendary D46 cartridge, still in use today, Lapua's .308 Winchester ammunition is in use by militaries and government agencies throughout the world. Lapua .308 ammunition is not only the world's most accurate, but the closely matched ballistic trajectories between different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

.308 Winchester is the most versatile centerfire rifle cartridge in use today, and capable of exceptional accuracy. The cartridge was introduced in 1952.

## VELOCITY COMPARISON



## TRAJECTORY COMPARISON



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

*This Lapua tactical cartridge is designed for optimal ballistic performance in shorter barrels (12"-20"), especially in short-barreled semi-auto rifles. 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 2474 fps and routinely capable of shooting groups under 1 MOA at 328 yards (<3.43" / 328 yd) with quality rifles. This tactical cartridge works flawlessly with DMR-type semi-auto rifles.*

For Lapua tactical bullets, see the selection on page 35.





# TACTICAL BULLETS

## BALLISTIC COEFFICIENT

| .338 LAPUA MAGNUM          |                 |        |  |                              |                              |                             |                      |                          |
|----------------------------|-----------------|--------|--|------------------------------|------------------------------|-----------------------------|----------------------|--------------------------|
| BULLET NAME                | Weight          | Code   | Ballistic coefficient G1<br>Velocity range [m/s] / [fps] |                              |                              |                             |                      | Ballistic coefficient G7 |
|                            |                 |        | > 830 m/s<br>> 2720 fps                                  | 830-600 m/s<br>2720-1970 fps | 600-380 m/s<br>1970-1250 fps | 380-300 m/s<br>1250-980 fps | <300 m/s<br><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                    |
| Armour Piercing            | 16.1 g / 248 gr | AP485  | 0.556  | 0.553                        | 0.532                        | 0.555                       | 0.615                | 0.285                    |
| Armour 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                    |
| Armour 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<br>Velocity range [m/s] / [fps] |                              |                              |                             |                        | Ballistic coefficient G7 |
|                 |                  |       | > 830 m/s<br>> 2720 fps                                  | 830-600 m/s<br>2720-1970 fps | 600-380 m/s<br>1970-1250 fps | 380-300 m/s<br>1250-980 fps | <300 m/s<br><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                    |
| Armour 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                    |
| Scenar          | 10.85 g / 167 gr | GB422 | > 740 m/s<br>> 2430 fps                                  | 740-550 m/s<br>2430-1800 fps | 550-380 m/s<br>1800-1250 fps | 380-300 m/s<br>1250-980 fps | < 300 m/s<br>< 980 fps | > 380 m/s<br>> 1250 fps  |
| Naturalis       | 11.0 g / 170 gr  | N558  | 0.445  | 0.431                        | 0.393                        | 0.361                       | 0.487                  | 0.219                    |
| Scenar-L        | 11.3 g / 175 gr  | GB550 | 0.354  | 0.354                        | 0.354                        |                             |                        | 0.177                    |
| Scenar          | 12.0 g / 185 gr  | GB432 | 0.490  | 0.483                        | 0.468                        | 0.390                       | 0.370                  | 0.247                    |
| D46             | 12.0 g / 185 gr  | D46   | 0.485  | 0.472                        | 0.439                        | 0.457                       | 0.657                  | 0.242                    |
| Subsonic        | 13.0 g / 200 gr  | B416  | > 300 m/s<br>> 980 fps                                   | < 300 m/s<br>> 980 fps       |                              |                             |                        | 0.508                    |
|                 |                  |       | 0.515  | 0.413                        |                              |                             |                        | 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 (500-1000m/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.

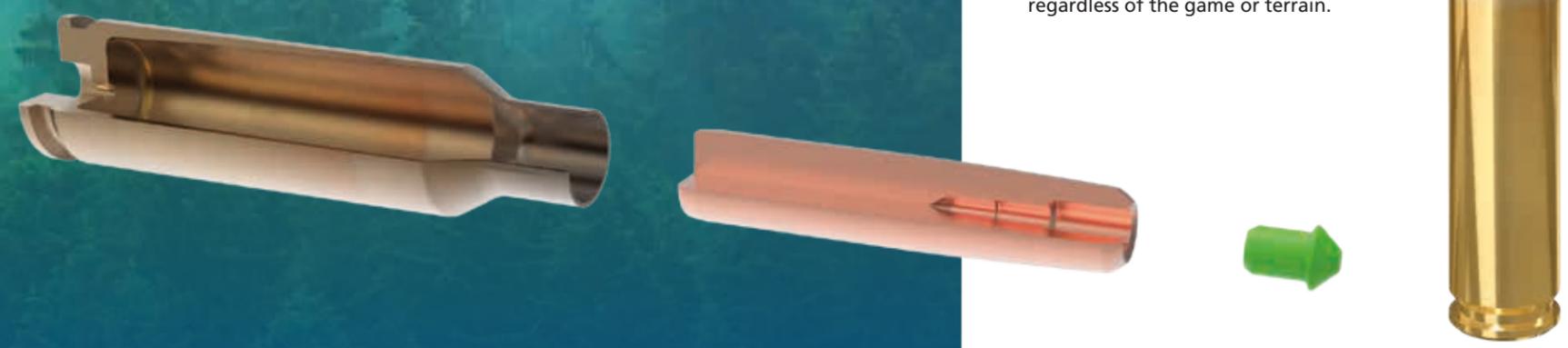




**NEW!**  
Hermetically sealed cartridges.  
Check page 4 for more info.

# NATURALIS® BULLETS AND CARTRIDGES

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



## DEER, ELK, BOARS OR BEARS

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

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

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



HUNTING

## A CLEAN, ACCURATE SHOT

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



*"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.



1581 fps -> 170 gr

2595 fps -> 170 gr

2979 fps -> 168 gr



# 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)

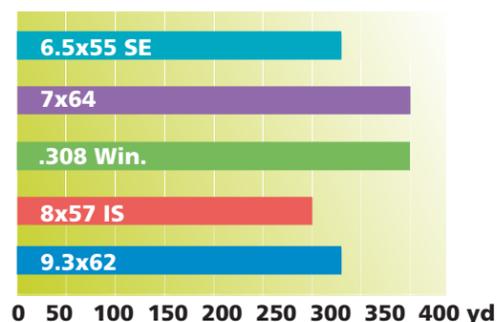


**.338**  
N508 15.0 g / 231 gr  
(NPL8020)



**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.

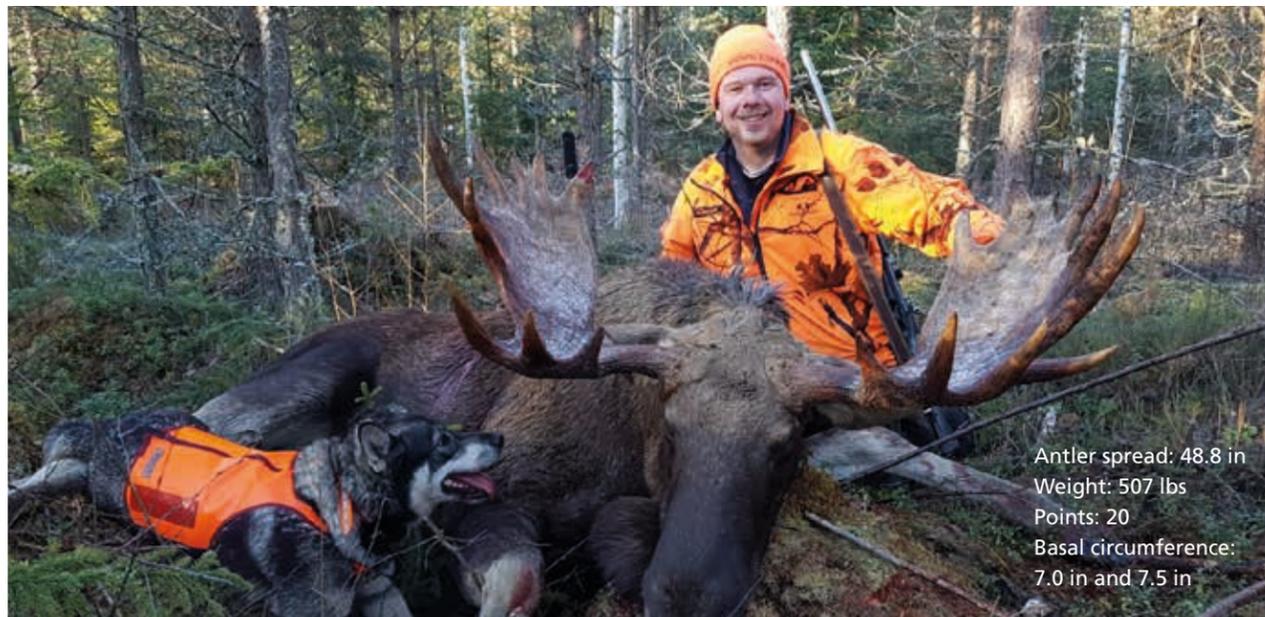


## MORE NATURALIS CARTRIDGES

|                 |             |         |
|-----------------|-------------|---------|
| 6.5 Creedmoor   | N563 140 gr | N316401 |
| 6.5x47 Lapua    | N563 140 gr | N316301 |
| 7x64            | N564 155 gr | N317322 |
| 7x65R           | N564 155 gr | N317323 |
| .8x57 IS        | N559 180 gr | N318009 |
| 8x57 IRS        | N559 180 gr | N318010 |
| .338 Lapua Mag. | N508 231 gr | N318020 |

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





Antler spread: 48.8 in  
Weight: 507 lbs  
Points: 20  
Basal circumference: 7.0 in and 7.5 in

## 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 yards 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 yards 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... "



# MEGA FOR BIG GAME

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

## PREDICTABLE PERFORMANCE

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

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

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



## TOP FEATURES

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

## AVAILABLE IN

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

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



IMPERIAL

| CARTRIDGES - CENTERFIRE RIFLE |             |                                     |                   |                    |                    |                                  |                    |                   |                   |                          |  |               | ● SPORT ● HUNTING ● TACTICAL AMMUNITION |                     |                      |                         |         |    |    |
|-------------------------------|-------------|-------------------------------------|-------------------|--------------------|--------------------|----------------------------------|--------------------|-------------------|-------------------|--------------------------|--|---------------|---|---------------------|----------------------|-------------------------|---------|----|----|
| Caliber                       | Product no. | Bullet name<br>Weight<br>Code       | Velocity [fps]    |                    |                    |                                  |                    |                   |                   | Trajectory [in]          |  |               |   |                     |                      | Test barrel length [in] |         |    |    |
|                               |             |                                     | Energy [ft.-lbs.] |                    |                    | Wind drift [in] (Sidewind 9 mph) |                    |                   |                   | Rifle sighted in at [yd] | Impact point above or below line of sight (Scope 1.6 in above bore line) |               |   |                     |                      |                         |         |    |    |
|                               |             |                                     | 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 |    |    |
| .222 Rem. (5.7x43)            | 4315020     | FMJ<br>3,6 g / 55 gr<br>S538        | 2887<br>1028<br>0 | 2501<br>772<br>1   | 2137<br>563<br>5   | 1798<br>399<br>13                |                    |                   |                   | 100<br>300<br>184 PBR    | 0<br>5<br>1,6  | -4<br>6<br>-1 | -16<br>0<br>-11                         |                     |                      |                         | 24      |    |    |
|                               | 4315030     | SP<br>3,6 g / 55 gr<br>E539         | 2887<br>1028<br>0 | 2383<br>701<br>2   | 1954<br>471<br>7   | 1599<br>315<br>17                |                    |                   |                   | 100<br>300<br>178 PBR    | 0<br>6<br>1,6  | -5<br>8<br>-1 | -18<br>0<br>-13                         |                     |                      |                         | 24      |    |    |
|                               | N315025     | Naturalis<br>3,2 g / 50 gr<br>N566  | 3166<br>1099<br>0 | 2676<br>785<br>1,3 | 2230<br>545<br>5,8 | 1845<br>373<br>14,3              |                    |                   |                   | 100<br>198 PBR           | 0<br>1,5   | -3<br>0       | -14<br>-9                               |                     |                      |                         |         |    |    |
| .223 Rem.                     | 4315040     | FMJ<br>3,6 g / 55 gr<br>S538        | 3133<br>1211<br>0 | 2736<br>923<br>1   | 2358<br>686<br>4   | 2003<br>495<br>11                |                    |                   |                   | 100<br>300<br>192 PBR    | 0<br>4<br>1,4  | -3<br>5<br>0  | -12<br>0<br>-8                          |                     |                      |                         | 26      |    |    |
|                               | 4315011     | Scenar<br>4,5 g / 69 gr<br>GB541    | 2789<br>1199<br>0 | 2525<br>983<br>1   | 2277<br>800<br>4   | 2044<br>644<br>8                 | 1430<br>315<br>39  |                   |                   | 100<br>300<br>600        | 0<br>5<br>18   | -4<br>6<br>31 | -14<br>0<br>38                          | -105<br>-76<br>0    |                      |                         | 20      |    |    |
|                               | 4315015     | Scenar-L<br>4,5 g / 69 gr<br>GB544  | 2723<br>1143<br>0 | 2463<br>935<br>1   | 2219<br>759<br>4   | 1990<br>611<br>9                 | 1385<br>296<br>41  |                   |                   | 100<br>300<br>600        | 0<br>5<br>19   | -4<br>6<br>33 | -15<br>0<br>41                          | -112<br>-81<br>0    |                      |                         | 20      |    |    |
| .243 Win. (6.16x51)           | 4316052     | FMJ<br>5,8 g / 90 gr<br>S561        | 2905<br>1677<br>0 | 2637<br>1382<br>1  | 2384<br>1130<br>3  | 2146<br>915<br>8                 | 1522<br>460<br>37  |                   |                   | 100<br>300<br>192 PBR    | 0<br>4<br>1,5  | -3<br>5<br>0  | -13<br>0<br>-8                          | -95<br>-69<br>-81   |                      |                         | 24      |    |    |
|                               | N316201     | Naturalis<br>5,8 g / 90 gr<br>N509  | 2985<br>1780<br>0 | 2582<br>1332<br>1  | 2213<br>978<br>5   |                                  |                    |                   | 100<br>183 PBR    | 0<br>1,4                 | -4<br>-1   |               |   |                     |                      |                         | 24      |    |    |
|                               | 4316056     | SP<br>6,5 g / 100 gr<br>E562        | 2985<br>1984<br>0 | 2724<br>1653<br>1  | 2479<br>1368<br>3  | 2246<br>1123<br>7                |                    |                   |                   | 100<br>300<br>194 PBR    | 0<br>4<br>1,4  | -3<br>5<br>0  | -12<br>0<br>-8                          |                     |                      |                         | 24      |    |    |
| 6 mm BR Norma                 | 4316044     | Scenar-L<br>5,8 g / 90 gr<br>GB543  | 2950<br>1729<br>0 | 2733<br>1485<br>1  | 2525<br>1267<br>2  | 2325<br>1074<br>6                | 1772<br>624<br>27  |                   |                   | 100<br>300<br>600        | 0<br>4<br>13   | -3<br>5<br>24 | -12<br>0<br>29                          | -81<br>-58<br>0     |                      |                         | 26      |    |    |
|                               | 4316047     | Scenar-L<br>6,8 g / 105 gr<br>GB542 | 2674<br>1666<br>0 | 2485<br>1439<br>1  | 2303<br>1236<br>3  | 2128<br>1055<br>6                | 1661<br>643<br>27  | 1396<br>454<br>53 | 1169<br>319<br>89 | 100<br>300<br>600        | 0<br>5<br>16   | -4<br>6<br>29 | -15<br>0<br>34                          | -98<br>-175<br>-83  | -215<br>-354<br>-239 |                         |         | 26 |    |
| 6.5x47 Lapua                  | 4316017     | Scenar-L<br>7,8 g / 120 gr<br>GB547 | 2772<br>2053<br>0 | 2582<br>1781<br>1  | 2395<br>1533<br>2  | 2215<br>1311<br>6                | 1720<br>790<br>26  | 1433<br>549<br>51 |                   | 100<br>300<br>600        | 0<br>4<br>15   | -4<br>5<br>26 | -13<br>0<br>32                          | -90<br>-198<br>-78  |                      |                         |         | 26 |    |
|                               | 4316011     | Scenar<br>8,0 g / 123 gr<br>GB489   | 2790<br>2134<br>0 | 2616<br>1876<br>1  | 2446<br>1640<br>2  | 2281<br>1426<br>5                | 1826<br>914<br>23  | 1553<br>661<br>44 | 1301<br>464<br>75 | 100<br>300<br>600        | 0<br>4<br>14   | -3<br>5<br>25 | -13<br>0<br>30                          | -85<br>-183<br>-198 | -339<br>-297<br>-198 |                         |         | 26 |    |
|                               | 4316016     | Scenar-L<br>8,8 g / 136 gr<br>GB546 | 2625<br>2077<br>0 | 2461<br>1825<br>1  | 2300<br>1595<br>2  | 2145<br>1387<br>5                | 1720<br>892<br>24  | 1472<br>653<br>46 | 1255<br>475<br>78 | 100<br>300<br>600        | 0<br>5<br>16   | -4<br>6<br>28 | -15<br>0<br>34                          | -97<br>-209<br>-223 | -385<br>-336<br>-223 |                         |         | 26 |    |
|                               | 4316012     | Scenar<br>9,0 g / 139 gr<br>GB458   | 2690<br>2231<br>0 | 2537<br>1985<br>0  | 2387<br>1757<br>2  | 2242<br>1550<br>5                | 1839<br>1043<br>21 | 1594<br>784<br>40 | 1366<br>576<br>67 | 100<br>300<br>600        | 0<br>5<br>15   | -4<br>5<br>26 | -14<br>0<br>31                          | -88<br>-188<br>-195 | -342<br>-297<br>-195 |                         |         | 26 |    |
|                               | N316301     | Naturalis<br>9,1 g / 140 gr<br>N563 | 2648<br>2186<br>0 | 2219<br>1535<br>2  | 1848<br>1064<br>7  | 1549<br>748<br>18                |                    |                   |                   | 100<br>165 PBR           | 0<br>1,6   | -5,5<br>-2,4  | -21,4<br>-17                            |                     |                      |                         |         | 26 |    |
|                               | 4316060     | Scenar<br>8,0 g / 123 gr<br>GB489   | 2790<br>2134<br>0 | 2616<br>1876<br>1  | 2446<br>1640<br>2  | 2281<br>1426<br>5                | 1826<br>914<br>23  | 1553<br>661<br>44 | 1301<br>464<br>75 | 100<br>300<br>600        | 0<br>4<br>14   | -3<br>5<br>25 | -13<br>0<br>30                          | -85<br>-183<br>-198 | -339<br>-297<br>-198 |                         |         | 26 |    |
| 6.5 Creedmoor                 | N316401     | Naturalis<br>9,1 g / 140 gr<br>N563 | 2559<br>2042<br>0 | 2139<br>1427<br>2  | 1783<br>991<br>8   | 1497<br>699<br>19                |                    |                   |                   | 100<br>160 PBR           | 0<br>1,6   | -6,1<br>-2,9  |   |                     |                      |                         |         | 26 |    |
|                               | 4316033     | FMJ<br>6,5 g / 100 gr<br>S341       | 2725<br>1649<br>0 | 2374<br>1251<br>1  | 2049<br>932<br>5   | 1752<br>682<br>13                |                    |                   |                   | 100<br>300<br>174 PBR    | 0<br>6<br>1,6  | -5<br>7<br>-2 | -17<br>0<br>-13                         |                     |                      |                         | 24      |    |    |
| 6.5x55 SE                     | 4316035     | Scenar<br>6,5 g / 100 gr<br>GB504   | 2620<br>1529<br>0 | 2411<br>1294<br>1  | 2211<br>1088<br>3  | 2021<br>909<br>7                 | 1506<br>505<br>33  |                   |                   | 100<br>300<br>600        | 0<br>5<br>18   | -4<br>6<br>32 | -16<br>0<br>39                          | -109<br>-77<br>0    |                      |                         |         | 29 |    |
|                               | 4316031     | Scenar<br>7,0 g / 108 gr<br>GB464   | 2950<br>2087<br>0 | 2748<br>1811<br>1  | 2550<br>1560<br>2  | 2358<br>1333<br>5                | 1832<br>805<br>25  | 1521<br>555<br>48 | 1238<br>367<br>83 | 100<br>300<br>600        | 0<br>4<br>13   | -3<br>5<br>23 | -11<br>0<br>28                          | -78<br>-173<br>-68  | -328<br>-290<br>-197 |                         |         | 29 |    |
|                               | 4316038     | Scenar-L<br>7,8 g / 120 gr<br>GB547 | 2723<br>1981<br>0 | 2534<br>1715<br>1  | 2348<br>1474<br>3  | 2170<br>1258<br>6                | 1681<br>755<br>27  | 1399<br>523<br>53 |                   | 100<br>300<br>600        | 0<br>5<br>16   | -4<br>5<br>28 | -14<br>0<br>33                          | -94<br>-170<br>-81  | -207<br>-170<br>-81  |                         |         | 29 |    |
|                               | 4316039     | Scenar-L<br>7,8 g / 120 gr<br>GB547 | 3018<br>2434<br>0 | 2822<br>2128<br>1  | 2631<br>1849<br>2  | 2443<br>1595<br>5                | 1919<br>984<br>23  | 1609<br>692<br>44 | 1335<br>476<br>76 | 100<br>300<br>600        | 0<br>4<br>12   | -3<br>4<br>22 | -11<br>0<br>26                          | -73<br>-160<br>-63  | -302<br>-267<br>-180 |                         |         | 29 |    |
|                               | 4316032     | Scenar<br>8,0 g / 123 gr<br>GB489   | 2720<br>2028<br>0 | 2548<br>1779<br>1  | 2379<br>1551<br>2  | 2217<br>1347<br>5                | 1769<br>858<br>24  | 1501<br>617<br>46 | 1253<br>430<br>79 | 100<br>300<br>600        | 0<br>5<br>15   | -4<br>5<br>26 | -14<br>0<br>31                          | -90<br>-63<br>0     | -194<br>-158<br>-74  | -361<br>-316<br>-211    |         |    | 29 |
|                               | 4316036     | Scenar<br>8,0 g / 123 gr<br>GB489   | 3015<br>2492<br>0 | 2836<br>2204<br>0  | 2661<br>1941<br>2  | 2490<br>1699<br>4                | 2010<br>1108<br>20 | 1722<br>813<br>38 | 1457<br>582<br>65 | 100<br>300<br>600        | 0<br>3<br>12   | -3<br>4<br>21 | -10<br>0<br>25                          | -70<br>-49<br>0     | -151<br>-124<br>-58  | -280<br>-245<br>-163    |         |    | 29 |

| CARTRIDGES - CENTERFIRE RIFLE |                                    |   |                   |                   |                   |                                  |                    |                    |                    |                          |  |                | ● SPORT ● HUNTING ● TACTICAL AMMUNITION |                      |                      |                         |         |    |    |
|-------------------------------|------------------------------------|---|-------------------|-------------------|-------------------|----------------------------------|--------------------|--------------------|--------------------|--------------------------|--|----------------|---|----------------------|----------------------|-------------------------|---------|----|----|
| Caliber                       | Product no.                        | Bullet name<br>Weight<br>Code               | Velocity [fps]    |                   |                   |                                  |                    |                    |                    | Trajectory [in]          |  |                |   |                      |                      | Test barrel length [in] |         |    |    |
|                               |                                    |   | Energy [ft.-lbs.] |                   |                   | Wind drift [in] (Sidewind 9 mph) |                    |                    |                    | Rifle sighted in at [yd] | Impact point above or below line of sight (Scope 1.6 in above bore line) |                |   |                      |                      |                         |         |    |    |
|                               |                                    |   | 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 |    |    |
| 6.5x55 SE cont.               | 4316040                            | Scenar-L<br>8,8 g / 136 gr<br>GB546         | 2674<br>2156<br>0 | 2509<br>1897<br>1 | 2347<br>1660<br>2 | 2190<br>1445<br>5                | 1759<br>933<br>24  | 1506<br>684<br>45  | 1285<br>498<br>76  | 100<br>300<br>600        | 0<br>5<br>16   | -4<br>6<br>27  | -14<br>0<br>32                          | -93<br>-162<br>-76   | -200<br>-321<br>-213 |                         |         | 29 |    |
|                               | 4316030                            | Scenar<br>9,0 g / 139 gr<br>GB458           | 2625<br>2125<br>0 | 2473<br>1886<br>1 | 2325<br>1667<br>2 | 2183<br>1469<br>5                | 1786<br>983<br>22  | 1545<br>736<br>42  | 1332<br>547<br>70  | 100<br>300<br>600        | 0<br>5<br>16   | -4<br>6<br>27  | -15<br>0<br>32                          | -94<br>-161<br>-208  | -200<br>-316<br>-208 |                         |         | 29 |    |
|                               | N316102                            | Naturalis<br>9,1 g / 140 gr<br>N563         | 2625<br>2148<br>0 | 2198<br>1506<br>2 | 1831<br>1045<br>7 | 1535<br>735<br>17                |                    |                    |                    | 100<br>165 PBR           | 0<br>1,6   | -6<br>-2       | -22<br>-17                              |                      |                      |                         |         | 24 |    |
|                               | 4316021                            | Mega<br>10,1 g / 155 gr<br>E471             | 2560<br>2254<br>0 | 2332<br>1871<br>1 | 2116<br>1540<br>4 | 1912<br>1257<br>8                |                    |                    |                    | 100<br>171 PBR           | 0<br>1,6   | -5<br>-2       | -17<br>-13                              |                      |                      |                         |         | 29 |    |
| 7x64                          | N317322                            | Naturalis<br>10,1 g / 156 gr<br>N564        | 2756<br>2628<br>0 | 2434<br>2050<br>0 | 2135<br>1577<br>0 | 1858<br>1194<br>11               |                    |                    |                    | 100<br>173 PBR           | 0<br>1,6   | -4<br>-1       | -16<br>-12                              |                      |                      |                         |         | 24 |    |
| 7X65R                         | N317323                            | Naturalis<br>10,1 g / 156 gr<br>N564        | 2756<br>2628<br>0 | 2434<br>2050<br>0 | 2135<br>1577<br>0 | 1858<br>1194<br>11               |                    |                    |                    | 100<br>173 PBR           | 0<br>1,6   | -4<br>-1       | -16<br>-12                              |                      |                      |                         |         | 24 |    |
| .308 Win. (7.62x51)           | 4317527                            | FMJ<br>8,0 g / 123 gr<br>S374               | 2935<br>2361<br>0 | 2594<br>1845<br>1 | 2268<br>1410<br>4 | 1955<br>1048<br>10               |                    |                    |                    | 100<br>300<br>189 PBR    | 0<br>5<br>1,5  | -4<br>6<br>-1  | -14<br>0<br>-9                          |                      |                      |                         |         | 26 |    |
|                               | 4317498                            | Mega<br>9,7 g / 150 gr<br>E469              | 2790<br>2592<br>0 | 2517<br>2110<br>1 | 2261<br>1702<br>4 | 2019<br>1357<br>9                |                    |                    |                    | 100<br>300<br>184 PBR    | 0<br>5<br>1,6  | -4<br>6<br>-1  | -15<br>0<br>-10                         |                      |                      |                         |         | 26 |    |
|                               | 4317538                            | Lock Base<br>9,7 g / 150 gr<br>B466         | 2790<br>2592<br>0 | 2581<br>2219<br>1 | 2379<br>1884<br>3 | 2180<br>1583<br>6                | 1615<br>868<br>30  | 1260<br>529<br>61  |                    | 100<br>300<br>600        | 0<br>4<br>15   | -4<br>5<br>27  | -13<br>0<br>33                          | -93<br>-66<br>0      | -210<br>-174<br>-86  |                         |         | 26 |    |
|                               | 4317076                            | Scenar-L<br>10,0 g / 155 gr<br>GB552        | 2820<br>2725<br>0 | 2621<br>2354<br>1 | 2428<br>2020<br>2 | 2243<br>1723<br>6                | 1735<br>1031<br>26 | 1439<br>710<br>52  | 1182<br>478<br>89  | 100<br>300<br>600        | 0<br>4<br>15   | -3<br>5<br>26  | -13<br>0<br>31                          | -87<br>-62<br>-76    | -192<br>-158<br>-220 | -365<br>-323<br>-220    |         |    | 26 |
|                               | 4317598                            | Armour Piercing<br>10,7 g / 165 gr<br>AP492 | 2820<br>2915<br>0 | 2610<br>2497<br>1 | 2404<br>2119<br>3 | 2205<br>1782<br>7                | 1660<br>1010<br>34 | 1336<br>654<br>69  |                    | 100<br>300<br>600        | 0<br>4<br>15   | -4<br>5<br>27  | -13<br>0<br>32                          | -91<br>-65<br>0      | -203<br>-168<br>-82  | -380<br>-352<br>-244    |         |    | 26 |
|                               | 4317515                            | Scenar<br>10,85 g / 167 gr<br>GB422         | 2690<br>2690<br>0 | 2491<br>2307<br>1 | 2297<br>1962<br>3 | 2110<br>1656<br>6                | 1595<br>945<br>30  | 1295<br>623<br>59  |                    | 100<br>300<br>600        | 0<br>5<br>17   | -4<br>6<br>29  | -15<br>0<br>35                          | -99<br>-70<br>0      | -221<br>-183<br>-89  |                         |         | 26 |    |
|                               | 4317596                            | Lock Base<br>11,0 g / 170 gr<br>B476        | 2756<br>2867<br>0 | 2573<br>2498<br>1 | 2391<br>2157<br>2 | 2213<br>1848<br>6                | 1708<br>1101<br>27 | 1393<br>733<br>54  | 1103<br>459<br>95  | 100<br>300<br>600        | 0<br>4<br>15   | -4<br>5<br>27  | -13<br>0<br>32                          | -91<br>-64<br>0      | -200<br>-164<br>-79  | -382<br>-337<br>-231    |         |    | 26 |
|                               | 43M7600 SEMI AUTO                  | Lock Base<br>11,0 g / 170 gr<br>B476        | 2441<br>2245<br>0 | 2262<br>1928<br>1 | 2087<br>1642<br>3 | 1918<br>1386<br>7                | 1436<br>777<br>34  | 1139<br>489<br>69  |                    | 100<br>300<br>600        | 0<br>6<br>20   | -5<br>7<br>36  | -18<br>0<br>43                          | -123<br>-86<br>-110  | -274<br>-225<br>-110 |                         |         | 16 |    |
|                               | N317105                            | Naturalis<br>11,0 g / 170 gr<br>N558        | 2625<br>2596<br>1 | 2376<br>2128<br>4 | 2138<br>1723<br>9 | 1916<br>1383<br>42               | 1368<br>706<br>81  | 1124<br>476<br>133 | 1007<br>382<br>133 | 100<br>174 PBR           | 0<br>1,6   | -5<br>-1       | -17<br>-12                              | -120<br>-111         | -277<br>-265         | -543<br>-528            |         |    | 26 |
|                               | 4317520                            | Scenar-L<br>11,3 g / 175 gr<br>GB550        | 2602<br>2621<br>0 | 2423<br>2273<br>1 | 2248<br>1957<br>3 | 2078<br>1672<br>6                | 1615<br>1010<br>28 | 1350<br>705<br>54  | 1125<br>490<br>93  | 100<br>300<br>600        | 0<br>5<br>17   | -4<br>6<br>30  | -16<br>0<br>36                          | -104<br>-73<br>0     | -226<br>-185<br>-88  | -426<br>-375<br>-254    |         |    | 26 |
| 4317523                       | Scenar<br>12,0 g / 185 gr<br>GB432 | 2475<br>2518<br>0                           | 2299<br>2174<br>1 | 2128<br>1861<br>3 | 1962<br>1583<br>7 | 1512<br>940<br>31                | 1254<br>647<br>60  |                    | 100<br>300<br>600  | 0<br>6<br>19             | -5<br>7<br>34  | -18<br>0<br>41 | -116<br>-81<br>0                        | -255<br>-208<br>-100 |                      |                         | 26      |    |    |
| 4317189                       | Mega<br>12,0 g / 185 gr<br>E415    | 2510<br>2588<br>0                           | 2245<br>2071<br>1 | 1996<br>1637<br>4 | 176               |                                  |                    |                    |                    |                          |  |                |   |                      |                      |                         |         |    |    |



| <b>COMPONENTS - CENTERFIRE RIFLE</b> |              |                 |              |                  |              |       |                 |      |        |       |                       |       |       |   |
|--------------------------------------|--------------|-----------------|--------------|------------------|--------------|-------|-----------------|------|--------|-------|-----------------------|-------|-------|---|
| CALIBER                              | BRASS CASES  |                 |              | BULLETS          |              |       |                 |      |        |       |                       |       |       |   |
|                                      | Product No.  | Designation     | Product No.  | Bullet name      | Product code | Type  | Bullet diameter |      | Weight |       | Ballistic coefficient |       |       |   |
|                                      |              |                 |              |                  |              |       | mm              | in   | g      | grs   | BC G1                 | BC G7 |       |   |
| 5.69 mm (.224)                       | 4 PH 5002    | .222 Rem.       | 4 PL 5006    | Soft Point       | E539         | SP    | 5.69            | .224 | 3.60   | 55    | 0.185                 |       | •     |   |
|                                      | 4 PH 5003    | .223 Rem.       | 4 PL/HL 5005 | FMJ              | S538         | FMJ   | 5.69            | .224 | 3.60   | 55    | 0.235                 |       | •     |   |
|                                      | 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 | •     |   |
| 6 mm (.243)                          | 4 PH 6009    | .243 Win.       | N PL 6201    | Naturalis        | N509         | CEX   | 6.16            | .243 | 5.80   | 90    | 0.230                 |       |       |   |
|                                      | 4 PH 6022    | 6 mm Creedmoor  | 4 PL/HL 6055 | Scenar-L         | GB543        | OTM   | 6.18            | .243 | 5.80   | 90    | 0.434                 | 0.216 | •     |   |
| 6.5 mm (.264)                        | 4 PH 6012    | 6.5 x 55 SE     | 4 PL/HL 6014 | FMJ              | S341         | FMJ   | 6.71            | .264 | 6.50   | 100   | 0.250                 |       |       |   |
|                                      | 4 PH 6030    | 6.5 - 284       | 4 PL/HL 6015 | Cutting Edge FMJ | S496         | FMJCE | 6.71            | .264 | 6.50   | 100   | 0.250                 |       |       |   |
|                                      | 4 PH 6010    | 6.5 x 47 Lapua  | 4 PL/HL 6033 | Scenar           | GB504        | OTM   | 6.71            | .264 | 6.50   | 100   | 0.424                 | 0.212 | •     |   |
|                                      | 4 PH 6020    | 6.5 Grendel     | 4 PL/HL 6020 | Scenar           | GB464        | OTM   | 6.71            | .264 | 7.00   | 108   | 0.465                 | 0.231 | •     |   |
|                                      | 4 PH 6050    | .260 Rem.       | 4 PL/HL 6032 | Scenar           | GB489        | OTM   | 6.71            | .264 | 8.00   | 123   | 0.527                 | 0.263 | •     |   |
|                                      | 4 PH 6011    | 6.5 Creedmoor   | 4 PL/HL 6018 | Scenar           | GB458        | OTM   | 6.71            | .264 | 9.00   | 139   | 0.578                 | 0.290 | •     |   |
|                                      |              |                 | 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                 |       |       |   |
| 7.62 mm (.308)                       | 4 PH 7217    | .308 Win.       | 4 PL/HL 7003 | FMJ              | S374         | FMJ   | 7.83            | .308 | 8.00   | 123   | 0.270                 |       | •     |   |
|                                      | 4 PH 7215    | 7.62 x 53R      | 4 PL/HL 7069 | Scenar           | GB422        | OTM   | 7.83            | .308 | 10.85  | 167   | 0.446                 | 0.223 | •     |   |
|                                      |              |                 | 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 PL/HL 7061 | Scenar-L         | GB550        | OTM   | 7.83            | .308 | 11.30  | 175   | 0.490                 | 0.247 | •     |   |
|                                      | 4 PH 7090    | .300 Norma Mag. | 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                 |       | •     |   |
| 8 mm (.323)                          | 4 PH 8030    | 8 x 57 IS       | N PL 8009    | Naturalis        | N559         | CEX   | 8.20            | .323 | 11.70  | 180   | 0.357                 | 0.179 | •     |   |
|                                      | 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  |       | •                     |       |       |   |
| 9.3 mm (.366)                        | 4 PH 9050    | 9.3 x 62        | 4 PL 9017    | Mega             | E433         | SP    | 9.30            | .366 | 18.50  | 285   | 0.339                 |       |       |   |
|                                      |              |                 | N PL 9204    | Naturalis        | N560         | CEX   | 9.30            | .366 | 16.20  | 250   | 0.419                 | 0.215 | •     |   |

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

| <b>COMPONENTS - CENTERFIRE HANDGUN</b> |             |              |             |                |              |      |                 |      |        |     |                       |       |  |
|--|-------------|--------------|-------------|----------------|--------------|------|-----------------|------|--------|-----|-----------------------|-------|--|
| 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 |  |

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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