

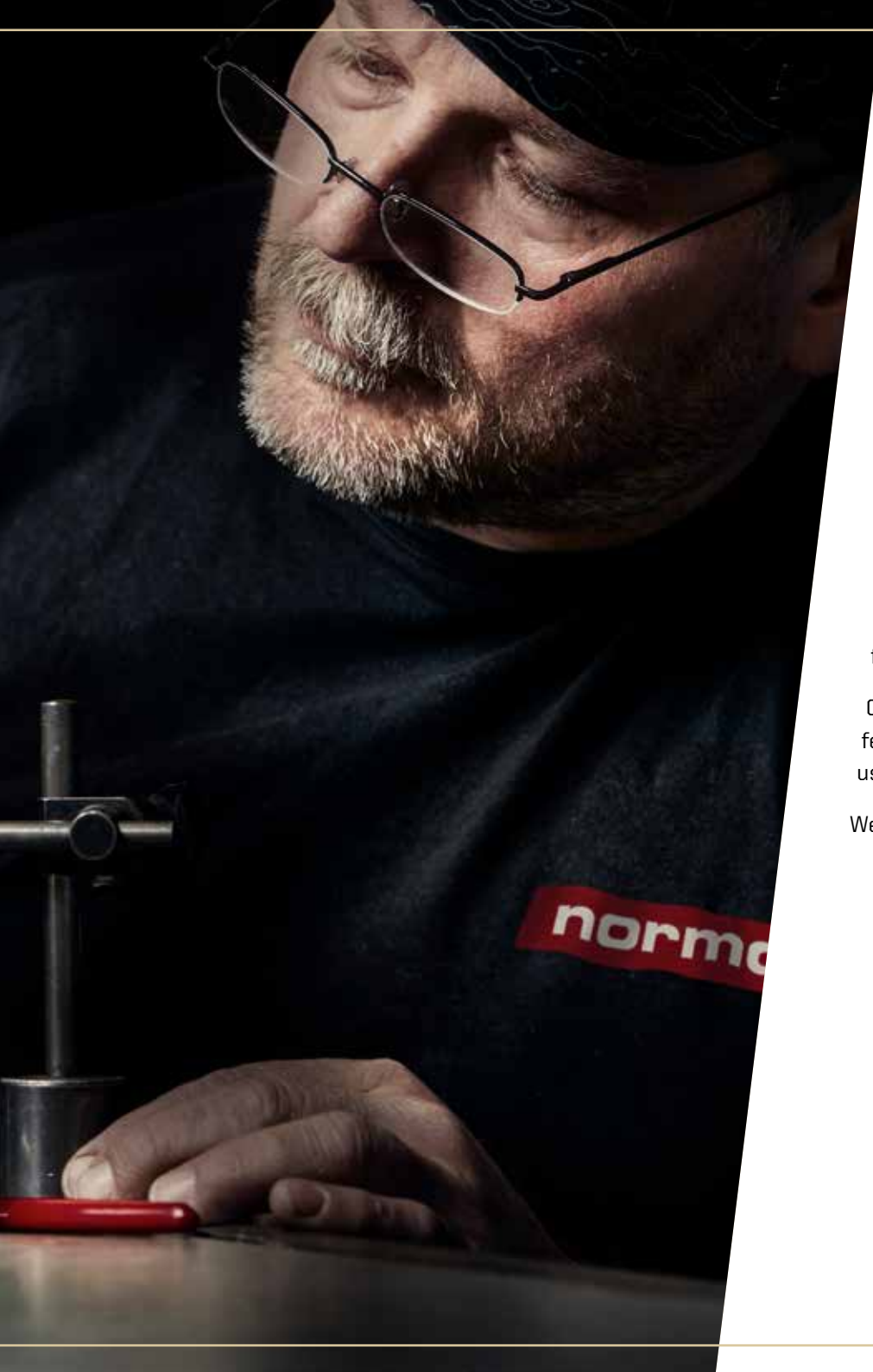
norma®

DEDICATED SINCE 1902

**HUNTING & SPORTS
AMMUNITION**







DEDICATED TO PERFECTION


We are Norma, and to us the pursuit of perfection is an everyday commitment. An eternal strive for a better, more precise, and more reliable shot, no matter if it's about hunting, competition, or training.

In the small Swedish village of Åmotfors, in a northern forest region called Värmland, we've been developing and manufacturing absolutely top-notch ammunition for over 110 years. We continuously work to improve our products. At our ballistics department alone, 200,000 shots are fired every year, all in order to further improve quality and stay ahead of the game. Our gunsmith manufactures more than 200 rifle barrels a year in our workshop, for extensive testing of our ammunition. It's a never-ending endeavor for perfection, barrel by barrel and bullet by bullet.

Our promise to you rests on all of this. Every time you squeeze the trigger, you should feel confident the product always delivers. Your skills and high demands are what triggers us to keep pursuing perfection.

Welcome to the world of Norma!





NORMA – ALWAYS THE BEST CHOICE TO MASTER YOUR NEXT CHALLENGE

OUR PROMISE

Welcome to the new world of Norma! We bring you a world of continuous renewal, dedication, passion and excitement!

Norma news in a nutshell: In 2019, we take one more leap by increasing our innovation rate significantly and offering you a tremendous bullet for **extreme long-range hunting** - BONDSTRIKE Extreme. Into it we have loaded 117 years of bullet and ammunition development competence. Enjoy!

We now extend Norma dedication and highest quality also to new product categories; accordingly our brand promise will cover state of the art Norma **rimfire ammunition**.

To underline our high ambitions and excel our customers' expectations, we did not have any other choice but to **(r)evolutionize the look & feel of our Norma brand as well**.

Here's what you can rely on – today and in the future: We at Norma relentlessly dedicate our full passion to meet the spoken and unspoken needs of ambitious hunters and shooters worldwide. We are continuously committed to **setting new benchmarks** aiming at fulfilling our customers' exciting dreams and helping you accomplish your constantly changing missions most successfully. We go the extra mile with and for you. Every day – since 1902.

Our deliverable to the worldwide hunting and shooting community is simple: Always the best choice to perfectly master your challenge.

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WELCOME TO THE NEW NORMA!

Our new color code system on product packs makes it easier for you to find the right product for your specific needs and challenges.



Our sand-colored Dedicated Hunting lineup features the latest technologies in advanced hunting ammunition development that you need. No matter the caliber, size of game, weather conditions, we know a shot well placed with Norma is a successful hunt. Starting 2019, this is not only very true for centerfire rifle ammo, but also for shot shells, rimfire ammo as well as airgun pellets, presented on selected markets.



Our red-colored Dedicated Precision line offers the finest components and highly-designed factory loads for the most challenging competitions and intense trainings. Whether you're racing through one of the toughest stages of the weekend, or focusing your cross-hairs on the x-ring, Norma has the right ammo for centerfire rifle, shotgun, rimfire as well as airgun, presented on selected markets.



Our steel-colored Dedicated Components range offers you a wide array of highest-quality components for reloading. Actually, Norma's ability to produce the finest ammunition begins with the finest components – covering some of the best bullets in the world as well as the most consistent brass cases and powder for off-the-shelf performance to handloaders everywhere.

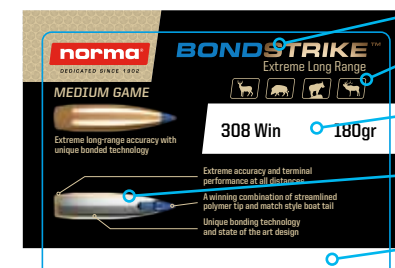
FIND THE INFORMATION

HUNTING PACKS



- WINDOW DISPLAY
- GAME RECOMMENDATION
- QUANTITY
- USAGE CATEGORY

HUNTING LABEL ON THE SIDE PANEL



- PRODUCT BRAND
- GAME PICTOGRAMS
- CALIBER AND BULLET WEIGHT
- BULLET ILLUSTRATION WITH EXPLANATIONS
- BALLISTIC DATA

WWW.NORMA-AMMUNITION.COM



FROM TRADITION TO INNOVATION

Tradition and innovation are often seen as each other's opposites. At Norma we harvest our history and 117 years of craftsmanship experience to continuously develop new products, innovative solutions and relevant adaptations to an ever changing market of shooters.

Our company has largely been built on the achievements of persons with unique skills, who have dedicated their time and efforts to develop ammunition and components for the benefit of quality conscious hunters and shooters worldwide. The Norma brand is the magnet that brings together knowledgeable bullet designers, creative ballisticians, Olympic shooters, avid hunters and devoted advocates for our way of life to further develop the maybe most prestigious brand in global premium hunting and shooting.

OLD AND NEW. OLD MEASURING CLOCKS IN THE FOREGROUND STILL USED IN PRODUCTION, MEASURING TO 1 HUNDREDTH OF A MILLIMETER.

IN THE BACKGROUND A CMM (COORDINATING MEASURING MACHINE) MEASURING COMPLICATED GEOMETRIES TO A THOUSANDTH OF A MILLIMETER.



ROY WEATHERBY AND NILS KVALE



In **1902** the production of target ammunition started in Åmotfors with three employees and a production of 225,000 projectiles. The first year of Norma's history went by.

In the **1950's Roy Weatherby** challenged Norma to manufacture ammunition according to the same principle as ladies shoes. To make them bigger on the inside than on the outside, to fit a lot of gunpowder inside.

In **1959, Nils Kvale**, former Ballistics Manager, created Norma's own Magnum Calibers 308 Norma Magnum and 358 Norma Magnum. Four years later, 1963, he wrote the well renowned book "Bullets, Gunpowder and Moose" which is today considered a bible for hunters and target shooters.

In **1955** Norma introduced 6,5x55 calibre match cartridges like the **Silvertorped** and **Silvermatch**. The pioneering spirit of Norma



during these years is one of the reasons Norma today is a world-class match cartridge producer.



ORYX

In **1995** Norma develops **Oryx**, one of the world's most well known hunting bullets today. Through a unique bonding technique the jacket and the lead core are merged together to produce an extremely diverse hunting bullet performing best in class on various hunting distances in terms of precision, retention weight, energy transfer and expansion upon impact.

In **2014** Norma set a new standard in terms of the packaging of the **cartridges** when constructing it to become a useful companion for the hunt. It's made of an environmentally friendly wooden composite which you can start your fire with. The cartridges are

safely fixed in modules of five which you can easily separate and bring in your pocket when hunting so they don't make any noise in your pocket.



BONDSTRIKE

With **Bondstrike** we set the highest standard in **long range hunting** on the market. It is a bullet which kills effectively on distances over 1000 meters, but still performs well when hitting an animal at 100 meters. It has superior precision on long ranges and a market leading BC.

In **2019** we **extend Norma's product categories** with the return of the state of the art **Norma pistol and revolver ammunition, which will be available in selected markets only**. Same applies to the launch of a brand new shotShell, airgun pellets as well as rim-fire line in both hunting and sport shooting categories with highest quality and precision standards.

To underline our high ambitions and excel our customers' expectations, we did not have any other choice but to **(r)evolutionize the look & feel of our Norma brand** as well.

OLD LOGO



NEW LOGO

PHOTOS AT NORMA FACTORY: DAN HOLMQVIST



NORMA HAS THREE FACTORY RANGES INDOORS
AND WE TEST IN ALL POSSIBLE CONDITIONS

CRAFTSMANSHIP IN EVERY STEP

Without skilled and capable people, the most modern and sophisticated machine and inspection instrument cannot produce quality cartridges.

Following a cartridge's journey from a lump of metal to a finished high performing projectile is an exciting journey that takes place every day in the factory in Värmland. Behind this process are years and years of development and craftsman skills together with a fine tuned machinery park and the finest selection of raw material.

LAB

All raw materials that arrive at Norma are inspected before they become available in production. Some products are inspected by the specific production departments, but nothing reaches production that hasn't been checked against Norma's high quality standards.

BULLET

The production of bullets requires tools with high precision in order for all bullets to turn out the same. To achieve top precision, the smallest possible deviations in balance, jacket wall thickness, diameter, weight and length are crucial to the results. Therefore, it is important to both perform a careful inspection of the jacket production and the final inspection of the bullet. The

final proof of good precision will come at the test shooting. All bullet batches are test shot for precision continuously through production. Hunting bullets are also expansion tested.

CASES

The most important factor in the case production is quality control and we make 15-20 measurements in total through the whole process depending on the case. In production, five of every 300 cases are taken out for inspection. In addition to this, a final inspection is made where the cases are put through a measuring device and visually inspected.

TOOLS AND MAINTENANCE

All tools for the production are manufactured at Norma by Norma's own toolmakers and all tools are inspected according to fixed routines. We measure all production tools with a measuring device that has an accuracy of up to 1/10000 mm, and which in turn is regularly calibrated. In Norma's production there are as many as 2517 measuring instruments used – all are inspected and calibrated at fixed intervals.

LOADING

Loading is the final stage when the components are assembled. It is important that a

bullet has the right extraction force and that the primer is correctly placed in the primer pocket. The cartridge must be loaded with powder that is optimal for the caliber, the case volume and the bullet weight, in order to achieve the desired muzzle velocity and the best precision that the cartridge can perform. To find the best powder, all powder batches are tested for velocity and pressure. At Norma, all cartridges comply to the CIP standards.

BALLISTICS

The ballistics department is the competence hub of the factory where cartridges are tested for precision, pressure and velocity before manufacturing can start. Tests are run several times a day during production and each product is pushed to its absolute limit, far beyond the industry standards. Norma has three factory ranges indoors and we test in all possible conditions simulating wind, temperature conditions and even air pressure.



A portrait of Mikael Karlsson, a man with a beard and short hair, wearing a dark polo shirt. He is leaning against a window frame with his arms crossed and his chin resting on his hand. The background is a blurred night scene with warm, bokeh lights.

MIKAEL KARLSSON IS HEAD OF THE BALLISTICS DEPARTMENT AT NORMA AND INVOLVED IN ALL R&D AND QUALITY CONTROL OF THE PRODUCTS.

FIVE BALLISTIC MYTHS

Nothing creates as much discussion as the field of ballistics. “What caliber should I use?”, “Which bullet is the best for hunting a certain game?”, “How do I determine which ammunition performs the best?”. There are many questions and often even more answers. However, here are some “old truths” that you should at least look out for. Our ballistic leader, Mikael Karlsson, with an enormous amount of knowledge in the ballistics field, answers some of the most frequent ballistics myths.

It is always better to be “on the safe side” when choosing caliber so I always choose a Magnum.

At relatively short distances up to 200 meters, the bullet path is quite similar in any case. But there is a big difference in the accuracy of the first and second shot, depending on how big caliber you are using. In the choice of caliber I would choose the smallest possible caliber for the game I want to shoot instead of thinking that I want to be “on the safe side”. You want to be sure that you kill the animal, but if you miss, you want to have the best conditions possible for a second shot. Think two good shots instead of one perfect.

In long-range shooting, the most important thing is to bring down ES (Extreme spread) when reloading.

No, at distances above 600-800 meters, the wind drift is the single largest factor that affects the precision. In other words, there are strong arguments for shooting a lot with factory-loaded ammunition in order to be able to practice much on the actual shooting so that you learn to master, for example, wind drift.

BC is the most important thing to look at in the choice of bullet.

No, at a distance of less than 300 meters, BC is not as important a factor in the choice of bullet. The most important factor, at least in hunting contexts, is the impact energy and the stability

of the bullet when it hits the target. The impact energy is the ratio of the velocity to the weight of the bullet. The stability comes from the construction of the bullet and the riflings of the barrel. A longer and heavier bullet needs a higher rotation in order not to risk damaging the animal or lose its penetration capability when hitting the target.

Bigger momentum gives greater stopping power.

No, momentum is simply the product of mass times velocity and doesn't give you the full picture of what happens when a hunting bullet hits a target.

To understand stopping power you need to take into account the design of the bullet, the diameter of the bullet, expansion capabilities as well as mass and velocity. Therefore we sometimes present the energy delivered in different depths of ballistic gelatin. All our bullets have different qualities in their design depending on how fast you want the energy to deliver upon impact. Sometimes you need the bullet to be able to penetrate deep through hard tissue before delivering its energy. Sometimes you want it to deliver its energy very quickly upon impact.

If I knew I was to shoot through bushes, I would choose a certain kind of bullet.

Yes, theoretically, round tipped bullets are more stable than tipped bullets if they go through something.

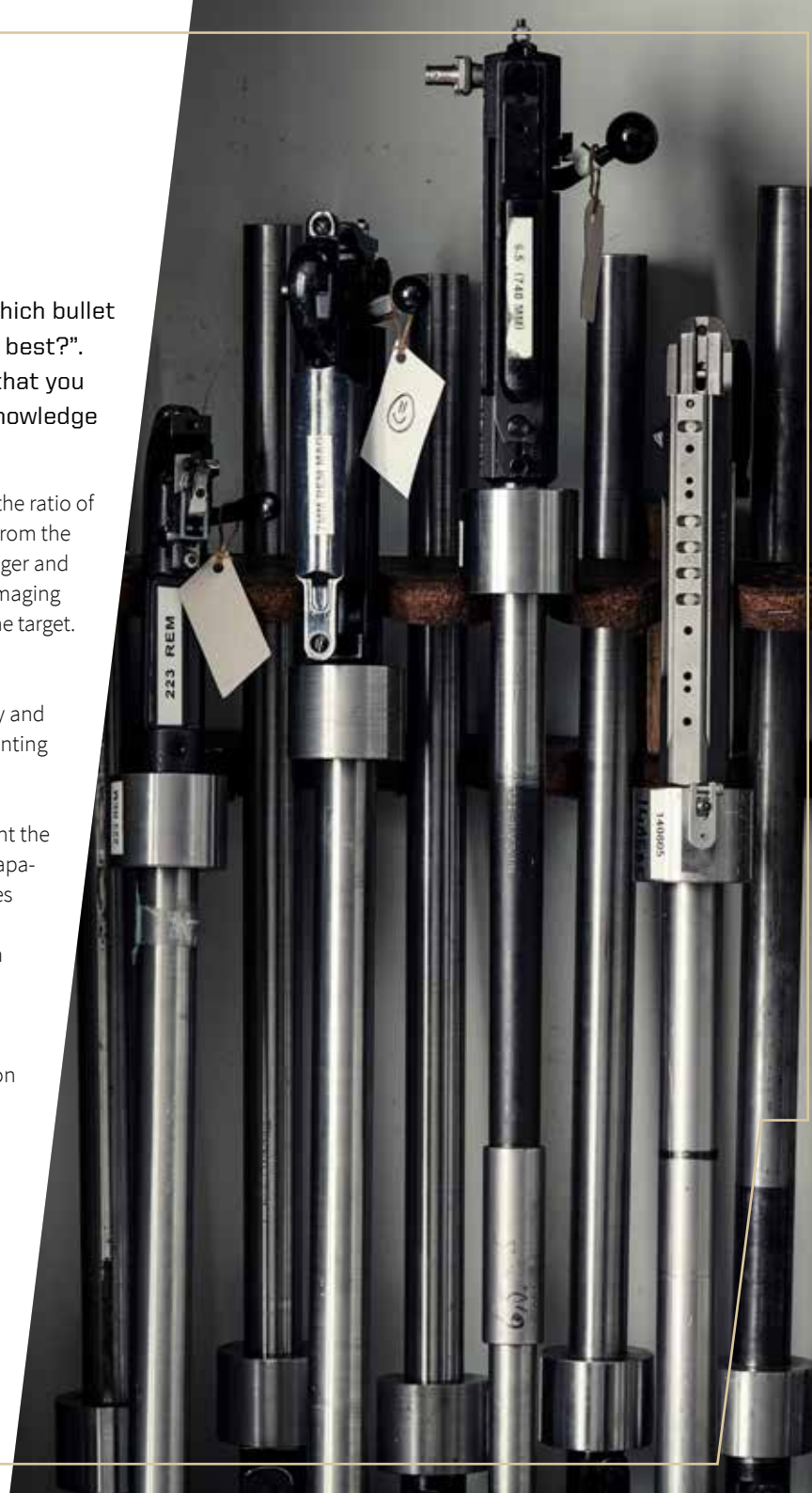






PHOTO AND TEXT: STAFFAN JOHANSSON

HUNTING FOR THE DREAM TROPHY

In the company of Norma's new BONDSTRIKE bullet and a fellow hunter, Staffan Johansson went hunting for the majestic red deer. This is the story of one of the great challenges.

The air is fresh as the sun rises and slowly finds its way through the treetops. It's mid-December, a little below zero, and the leaves on the ground crackle from frost. Me and my friend Klas have taken to the woods to see about some game. These woods are known for fallow deer and wild boars, but also for a fair amount of red deer. We have our minds set on one specific red deer male that has been spotted during the fall, always getting away. The imposing red deer has been an object of fascination and mystique to myself and many others, and therefore something of a dream trophy.

Long-range precision

Well aware we have a difficult task ahead of us, our rifles are loaded with a new ammo from the Norma factory in Åmotfors. I'm one of only a few being trusted to try the new bullet in the STRIKE series, the blue-tip BONDSTRIKE. Following TIPSTRIKE and ECOSTRIKE, it's the third installation in the series. The precision is flawless and the bullet works perfectly with my rifle.

This is a good thing, since the red deer is a tough adversary. Its sensitive hearing means the frozen ground is not in our favor. The red deer also has a great sense of smell and very good eyesight. The question is, have we got what it takes?

The trails are fresh

All of a sudden we hear it, a creaking sound from a bit above us. Is it our red deer? The creaking continues, and we're lucky enough to find a spot with moss to keep us silent. It becomes apparent that this must be more than just one animal. Klas picks up his binoculars and holds his breath. He has something in his view. Frozen like a statue, it's a fallow hind, looking right at us. She's dark and not easy to distinguish from the surrounding forest, but there she is. And then she's gone again in a blink. Soon after, a parade of fallows passes before our eyes. It's a magical moment in time.

Crouching and moving

The suspicious fallow hind is long gone, but what we have found is the game's path in these woods. We follow the fresh trails and find ourselves moving steadily upwards, with the hope of letting the fallows guide us to other game. Our premonition is that the red deer might well have passed along the same path a little bit earlier.

READ MORE ABOUT
BONDSTRIKE AT PAGE 23.



Dedicated Hunting

DH



While it's important to be silent, we still try to move fast. Halfway up the ridge I spot something that makes my heart stop. Something brown is moving a bit further ahead. Another fallow deer? No, this is a different type of brown. Klas gets his binoculars up again and realizes this is a small group of red deer. As I sneak up my range finder, he's suddenly there. The red deer male, the one I have dreamt about. Not necessarily with the biggest antler, but with a sturdy and majestic body.

We watch him disappear among the fir-trees. Klas knows these woods better than me and takes the lead as we hurry on up. Crouching and moving, we start a steep descent through the dense forest. It turns out to be the right move. One after the other, we see them appear far away. They behave as though they have sensed our presence, moving restlessly with eyes and ears on alert. The red deer male is not among them. Have we missed him? Did he take another route? My hunting pulse is high now. Estimating the distance is hard out here, but I tap 200 meters on my ballistic turret to be prepared if the opportunity reveals itself.

A minute passes. It feels like ten. Then, from the right side of my field of vision, I catch a glimpse in the corner of my eye. It's a majestic revelation entering my telescopic sight. It's the male red deer we have been looking for. The patches of light in the dark woods are tiny, and the chance will soon be gone. The very next moment, everything falls into place.



Magic in the making

One shot! I hear the muffled sound of a hit before I can tell if it's from the deer. The distance is too small to tell. I load another bullet and look in my sight again, only to watch the red deer fall. It's a magical feeling. As we approach the deer, we are curious about where the shot hit him to have such a powerful impact. As it turns out, he was hit behind the shoulder. We contemplate the scene for a while; it's a beautiful moment.

We can't find the exit hole, because there isn't one. I can feel the bullet under the skin behind the other shoulder.

The bullet has passed through the ribs on both sides, and even though it hasn't had to go through the muscular shoulder, the bullet has released its full energy and expanded with force.

Memory of a lifetime

Later in the slaughterhouse I understand why the red deer fell as fast as he did. The damage to the vital organs is extensive. With a hit in the middle of the shoulder, we would probably have seen a bigger meat spoilage. Here, it's minimal. Still the impact on the big animal has been powerful. The expanded bullet was weighed to 9,3 grams, a proportionate weight retention of 80%.

We return home with nothing but warm feelings. I have seared yet another unique hunting memory onto my retina, and BONDSTRIKE has made me feel confident all through the experience—in spite of the somewhat long striking distance of 200 meters. The suspense, the nature, and the euphoric ending made the red deer adventure a memory for life, a memory further silver lined by Norma's BONDSTRIKE.

READ MORE ABOUT
BONDSTRIKE AT PAGE 22-23.



"It's all about eco and precision"

"As a chef, I think I have a different view of the hunt. It's not about the kill. It's all about the meat." Henrik Norström is a well-renowned chef, and also the president of Bocuse d'Or in Sweden. He is the perfect representative for Norma's new, lead-free bullet ECOSTRIKE™ which is designed for the highest precision and the environment and the meat quality in focus.

"To me, the meat is the finest trophy. It's a noble commodity, running past me while hunting in the woods. This approach means I never take the unnecessary shots. I play it safe. And when I do shoot, what I bring down will not just be something to eat, it will be something I present to my guests with pride. Transforming my buck into a plate of braised venison shoulder with green juniper berries, pickled chanterelles and artichoke puree is my way of honoring the animal."

What Henrik Norström does, he does with absolute precision, no matter if it's cooking or hunting. The silver medal in the Bocuse d'Or says it all. It's the Formula 1 of gastronomy - the most excellent anyone can do when it comes to cooking. Henrik knows what it takes in terms of precision to participate. He is one of very few Swedes to make it in the international contest, and he now works with sifting out new Swedish candidates.

"Precision to me as a chef is about having solid knowledge about the raw material I work with. When I hunt, I go about it with that same precision, and with ammunition that yields as little meat spoilage as possible."

"Game is a truly great, local commodity, the finest, most tender, most flavorful meat our country has to offer. That's why the meat

itself was my own reason to start hunting", Henrik says. He had been working with game on his menus for many years, but felt he knew too little about the meat.


"I bought my game and could only note how much variation there was when it came to the quality. Why was that? It wasn't until I started hunting that I fully understood all the factors involved in affecting the flavor and tenderness of the game. The most vital detail for the meat quality is of course where the shot is placed. But I have also learned with what precision the game must be treated after the shot, because everything has an impact on the flavor. The hygiene at the evisceration, the temperature, the hanging, the tenderizing." Henrik has also explored how the flavor varies with the season. "A roe deer brought down in the early fall, after having eaten grass, nutritious herbs, and built a layer of fat, tastes far better than the meat from a lean roe deer brought down during a hard winter, after fighting for its survival and losing much of its energy. This kind of deep knowledge is only attainable by someone who actually hunts, Henrik states. Among hunters there's a lot of talk about equipment, but very little about commodity and meat quality."

At Lux Dag för Dag the methods for game

are sustainable. The restaurant takes care of the whole animal, nose to tail. The meat is tenderized in the restaurant's own meat hanging fridge for the best possible result. In addition there is always a story to tell about the commodity the guest is devouring. On the menu, it might say:

Tender roasted elk brisket with carrot, truffle emulsion, and gravy. Cow elk 4 years, hunted in Sörmland, tenderized in our meat hanging fridge to 72 degree days.

"Our goal is to be able to serve game dishes to our guests, with pride and love, everyday." In Henrik Nordström's opinion, chefs in general know very little about game. "Usually the menu just says deer. The natural thing would be to actually tell if it's fallow or red game that's being served, the two being totally different kinds of game with different properties. Plus it's interesting on the menu to talk about whether it's a hind, a buck, or a calf you're eating. The flavor is so different."



READ MORE ABOUT
ECOSTRIKE AT PAGE 22-23.



PHOTO: PER-ERIK BERGLUND



FACTS

Henrik Norström has won the silver medal in the most prestigious international gastronomic competition, the Bocuse d'Or. He is now president of the Swedish Bocuse d'Or Academy, leading the work with sifting out Bocuse d'Or candidates and coach them for the competition.

Henrik is a jury member at Bocuse d'Or, which is the world championships of cooking. He is also a jury member at Chef of the Year, Sweden.

Henrik was in charge of the dinner at the wedding of H.R.H. Prince Carl Philip and princess Sophia at the Royal Castle.

Henrik's restaurant Lux in Stockholm had a Michelin star, but a few years back he decided to transform the restaurant into Lux Dag för Dag, with a focus on seasonal produce. Here, Henrik's own game is often on the menu.

Lux Dag för Dag was dubbed This Year's Game Restaurant 2018 by the Game Academy.

Henrik's personal favorite commodity: Red deer calf.



*Dedicated
Hunting*



PHOTO: IGOR PERFILYEV



DEDICATED TO HUNTING

Whether you hunt around the world or around the bend, Norma has an offering made for you. Our lineup is not just based on our capabilities. It's dedicated to your needs.

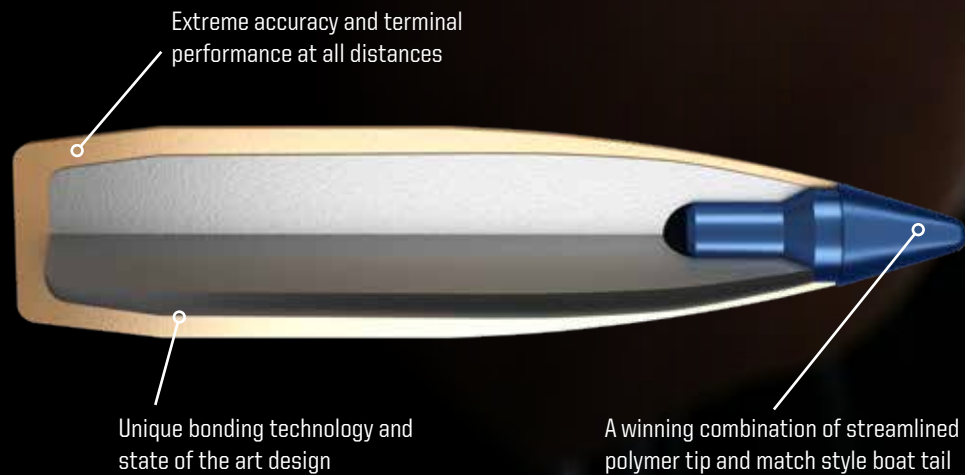
What one needs in southern Alabama is completely different than a highland hunter traversing Europe's most rugged peaks. But neither one is more important than the other. And each brings their perspective to the table.

Our Dedicated Hunting™ lineup features the latest technologies in advanced bullet and ammunition development that you and your fellow hunter need. No matter the caliber, size of game, weather conditions or person pulling the trigger, we know a shot well-placed with Norma is another successful hunt.

BONDSTRIKE™

EXTREME LONG-RANGE ACCURACY WITH UNIQUE BONDED TECHNOLOGY

The New BONDSTRIKE Extreme offerings headline the advanced STRIKE Series from Norma. The BONDSTRIKE combines excellent accuracy, an extremely high ballistic coefficient and tough construction for exceptional performance on medium and large game at all distances.



"THE MOST ACCURATE LONG-RANGE BULLET WE HAVE EVER BUILT!"

BÖRJE SYLVÉN, BALLISTIC EXPERT AT NORMA

- BEST IN CLASS BC ($> 0,6$)
- EXTREME PERFORMANCE
RESERVES ON LONG-RANGE
SHOTS
- UNMATCHED KNOCK-DOWN
POWER AT ALL DISTANCES





TIPSTRIKE™



- POLYMER TIP
- TIP DESIGNED FOR RAPID EXPANSION
- THIN FORWARD JACKET PROVIDES DEVASTATING SHOCK EFFECT
- LEAD LOCK GUARANTEES GOOD PENETRATION



ECOSTRIKE™



- POLYMER TIP
- BETTER CAVITY FOR EXPANSION
- PURE COPPER BULLET
- UNIQUE WAIST DESIGN TO MAXIMIZE VELOCITY
- PLATING ELIMINATES COPPER FOULING
- OPTIMIZED BOAT TAIL



BONDSTRIKE™



- POLYMER TIP FOR CONTROLLED EXPANSION AND HIGH BC
- UNIQUE BONDING TECHNOLOGY FOR EXTREME ENERGY TRANSFER
- MATCH BOAT TAIL FOR UNMATCHED PRECISION AT LONG DISTANCES



STRIKE™ PERFECT ENDING

STRIKE™ is Norma's next generation bullets for the modern hunter with high quality standards and specific hunting needs. With these new sets of bullets, the engineers at Norma have once again pushed the boundaries of modern projectile technology. Superb precision and devastating terminal ballistic effect makes the STRIKE™ family the perfect choice for the modern hunter.

TIPSTRIKE™

TIPSTRIKE™ is a new line of hunting ammunition designed for stopping power, excellent energy transfer and penetration deep enough to reach the vital organs of big game. At the heart of the TIPSTRIKE™ design is a polymer tip that ensures expansion and gives a devastating shock effect due to the construction of the bullet jacket. To maintain a high weight retention, the jacket is reinforced with a mechanical lead lock, thus making TIPSTRIKE™ an outstanding bullet for shots where an immediate stop is crucial.

TIPSTRIKE™ IS AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- 243 Win 76gr Varmint
- 280 Rem 160gr
- 300 Win Mag 170gr
- 30-06 170gr
- 308 Win 170gr
- 7mm Rem Mag 160gr
- 7mm-08 Rem 160gr
- 222 Rem. 54 gr Varmint
- 22-250 Rem. 54 gr Varmint
- 223 Rem. 54 gr Varmint
- 270 Win. 140 gr
- 270 WSM 140 gr
- 300 RUM 17 gr
- 300 WSM 170 gr
- 7x65R 160 gr
- 7x64 160 gr
- 7x57R 160 gr
- 7x57 160 gr

ECOSTRIKE™

ECOSTRIKE™ brings the latest in bullet technology to a lead-free projectile. The design features a polymer tip for better ballistic coefficients and more reliable terminal performance. ECOSTRIKE™ is a great choice for hunting medium and large game because of its ability to expand at both low and high velocities. ECOSTRIKE™ features a lead-free, copper bullet design for quality penetration and an almost 100% weight retention. The polymer tip assists with bullet expansion and decreases drag, while its boat tail design increases its ballistic coefficient and maximizes wind resistance. The ECOSTRIKE™ projectile is engineered with a cavity to guarantee optimal expansion, even at low velocities. Its proprietary plating also increases barrel life.

ECOSTRIKE™ IS AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- 300 Win Mag 150gr
- 300 WSM 150gr
- 30-06 150gr
- 308 Win 150gr
- 7mm Rem. Mag.
- 7x64 140 gr
- 7x65R 140 gr
- 8x57 IRS 160 gr
- 8x57 IS 160 gr
- 9,3x62 230 gr
- 9,3x74R 230 gr

BONDSTRIKE™

BONDSTRIKE™ Extreme is designed for extreme long-range accuracy and excellent performance on game at all distances. With a state-of-the-art polymer tip, proprietary bonding and a match-style boat tail, BONDSTRIKE™ Extreme delivers an unmatched combination of long-range precision, penetration and terminal ballistics. Norma's engineers developed a unique bonding technology to maximize weight retention and ensure a devastating wound channel through controlled expansion at all velocities. Combined with the inherent accuracy of Norma's sophisticated boat tail bullet design, BONDSTRIKE™ Extreme is the ideal cartridge for hunting whitetail deer, elk, antelope or any other medium to large-sized game.

BONDSTRIKE™ EXTREME WILL BE AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- 308 Win 180gr
- 30-06 180gr
- 300 Win Mag 180gr
- 300 WSM 180gr
- 300 RUM 180gr



TIPSTRIKE™ AT 100 METERS



ECOSTRIKE™ AT 100 METERS



BONDSTRIKE™ AT 300 METERS





















BALLISTIC DATA

BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
		V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
V-MAX® 1,3G/20GR #20143022	0,185	1280	1065	882	721	1065	738	506	338	80 100 150 200	-1 -11 -7 1	⊕ -2 4 17	3 ⊕ 7 24	-7 -11 ⊕ 25	-42 -48 -33 ⊕ -152	-215 -223 -202 -152	38	164	400
V-MAX® 2,6g/40gr #20156502	0,275	1160	1024	902	790	1750	1365	1058	812	80 100 150 200	-9 -10 -7 4	⊕ -1 6 20	2 ⊕ 9 27	-11 -14 ⊕ 27	-51 -54 -36 ⊕ -148	-225 -229 -202 -148	28	117	279
V-MAX® 2,6g/40gr #20157052	0,2	1050	881	732	598	1434	1010	697	465	80 100 150 200	-7 -7 2 15	⊕ 1 14 36	-1 ⊕ 17 44	-26 -25 ⊕ 41	-90 -88 -55 ⊕ -230	-365 -362 -312 -230	44	190	470
SOFT POINT 3,2g/50gr #20157112	0,185	975	803	650	516	1522	1031	677	426	80 100 150 200	-6 -4 7 24	⊕ 2 21 48	-3 ⊕ 23 57	-38 -34 ⊕ 52	-121 -115 -70 ⊕ -295	-476 -467 -399 -295	53	232	583
SOFT POINT 4g/62gr #20157162	0,214	880	740	613	500	1549	1094	751	501	80 100 150 200	-4 -1 13 34	⊕ 5 28 61	-6 ⊕ 29 71	-52 -44 ⊕ 62	-153 -142 -83 ⊕ -337	-566 -549 -462 -337	52	227	562
FULL METAL JACKET 3,6g/55gr #20157222	0,209	850	710	584	473	1301	907	613	403	80 100 150 200	-3 0 17 40	⊕ 6 32 69	-7 ⊕ 33 79	-59 -49 ⊕ 69	-171 -157 -92 ⊕ -371	-628 -608 -509 -371	56	244	609
ORYX 3,6g/55gr #20157042	0,185	930	764	616	487	1540	1038	675	423	675 100 150 200	-5 -3 10 30	⊕ 4 25 56	-4 ⊕ 26 66	-46 -40 ⊕ 59	-140 -131 -78 ⊕ -330	-539 -526 -447 -330	56	248	624
TIPSTRIKE VARMINT 3,6g/55gr #20157142	0,245	940	812	694	587	1547	1153	844	604	80 100 150 200	-6 -4 7 24	⊕ 3 20 47	-3 ⊕ 22 55	-38 -33 ⊕ 49	-117 -110 -66 ⊕ -261	-436 -426 -359 -261	41	175	426
SOFT POINT 3,4g/53gr #20157332	0,237	1130	977	840	716	2172	1623	1201	873	80 100 150 200	-9 -9 -3 7	⊕ -1 8 25	1 ⊕ 11 2	-16 -17 ⊕ 31	-62 -64 -41 ⊕ -171	-265 -267 -233 -171	34	143	345
ORYX 3,6g/55gr #20157342	0,185	1100	912	747	602	2155	1481	995	644	80 100 150 200	-8 -8 1 12	⊕ 0 12 32	0 ⊕ 15 40	-22 -22 ⊕ 38	-80 -80 -51 ⊕ -218	-338 -338 -294 -218	41	196	488
TIPSTRIKE VARMINT 3,6g/55gr #20157372	0,245	1090	946	817	700	2080	1568	1170	857	80 100 150 200	-8 -8 -2 10	⊕ 0 10 28	0 ⊕ 13 35	-19 -19 ⊕ 33	-70 -70 -45 ⊕ -183	-288 -289 -250 -183	34	144	346



















BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
223 Rem.			V-MAX® 2,6g/40gr #20157382	0,2	1140	960	802	661	1690	1198	836	567	80 100 150 200	-8 -9 3 8	⊕ -1 9 27	1 ⊕ 12 34	-17 -18 ⊕ 33	-66 -68 -44 ⊕	-288 -290 -254 -189	40	172	420
			SOFT POINT 3,4g/53gr #20157172	0,237	980	843	720	607	1633	1210	881	626	80 100 150 200	-6 -5 5 20	⊕ 2 17 41	-2 ⊕ 20 50	-33 -29 ⊕ 45	-104 -99 -60 ⊕	-396 -390 -331 -241	40	172	418
			DRYX 3,6g/55gr #20157192	0,185	950	781	631	500	1607	1087	710	446	80 100 150 200	20 -4 9 27	⊕ 3 23 52	-4 ⊕ 25 62	-43 -37 ⊕ 56	-131 -123 -74 ⊕	-509 -498 -424 -313	54	240	604
			TIPSTRIKE VARMINT 3,6g/55gr #20157352	0,245	980	848	727	617	1681	1258	926	667	80 100 150 200	-6 -5 4 19	⊕ 2 17 41	-2 ⊕ 19 49	-32 -29 ⊕ 44	-102 -98 -59 ⊕	-389 -383 -325 -236	39	165	401
5,6 x 52 R			SOFT POINT 4,6g/71gr #20156042	0,268	850	739	637	544	1662	1258	934	681	80 100 150 200	-4 -1 13 34	⊕ 5 28 61	-6 ⊕ 29 70	-53 -44 ⊕ 61	-151 -140 -81 ⊕	-541 -524 -436 -314	43	183	444
243 Win.			V-MAX® 3,8g/58gr #20160352	0,25	1200	1047	911	787	2737	2084	1576	1178	80 100 150 200	-9 -10 -6 2	⊕ -2 5 19	2 ⊕ 8 25	-9 -12 ⊕ 25	-46 -50 -34 ⊕	-213 -219 -195 -144	30	125	299
			SOFT POINT 6,5g/100gr #20160032	0,257	920	799	688	586	2752	2076	1539	1117	80 100 150 200	-5 -3 8 25	⊕ 3 22 49	-4 ⊕ 23 57	-41 -3,5 ⊕ 51	-122 -115 -68 ⊕	-450 -439 -369 -267	32	137	332
			DRYX 6,5g/100gr #20160332	0,261	910	792	683	583	2693	2038	1516	1105	80 100 150 200	-4 -2 12 31	⊕ 4 26 56	-5 ⊕ 27 65	-48 -41 ⊕ 57	-140 -130 -76 ⊕	-507 -492 -411 -297	42	182	443
			TIPSTRIKE VARMINT 4,9g/76gr #20160052	0,332	1050	946	849	759	2702	2192	1768	1414	80 100 150 200	-8 -8 -1 10	⊕ 0 11 28	0 ⊕ 13 35	-20 -20 ⊕ 33	-70 -70 -44 ⊕	-277 -277 -237 -172	26	108	254
6 XC			BALLISTIC TIP 6,2g/95gr #20160212	0,379	900	818	741	668	2512	2075	1701	1382	80 100 150 200	-5 -3 8 23	⊕ 3 21 46	-4 ⊕ 22 54	-39 -33 ⊕ 47	-114 -107 -63 ⊕	-405 -394 -327 -233	43	183	444
6,5 Jap.			ALASKA 10,1g/156gr #20166202	0,276	630	540	460	393	2005	1473	1069	780	80 100 150 200	6 16 49 91	⊕ 16 69 136	-20 ⊕ 67 150	-130 -100 ⊕ 124	-339 -299 -166 ⊕	-1125 -1066 -866 -617	64	274	659



BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
6,5 x 52 Carcano			ALASKA 10,1g/156gr #20166212	0,276	740	689	550	469	2767	2075	1527	1109	80	0	⊕	-11	-83	-223	-763	45	191	459
													100	6	9	⊕	-66	-201	-729			
													150	28	44	⊕	-113	-598				
													200	56	89	100	85	⊕	-428			
6,5 Creedmoor			SCIROCCO II 8,4g/130gr #20166302	0,571	850	797	746	697	3036	5669	2338	2040	80	-4	⊕	-5	-44	-124	-420	19	80	185
													100	-2	4	⊕	-37	-115	-406			
													150	10	23	25	⊕	-66	-333			
													200	27	50	57	49	⊕	-234			
6,5 x 55 SE			ALASKA 10,1g/156gr #20165522	0,276	780	677	583	497	3074	2319	1717	1250	80	-1	⊕	-9	-70	-194	-670	47	202	490
													100	3	7	⊕	-57	-176	-643			
													150	22	38	38	⊕	-10	-529			
													200	47	78	88	75	⊕	-379			
			DRYX 10,1g/156gr #20165622	0,348	780	698	621	550	3074	2463	1951	1527	80	-2	⊕	-8	-65	-176	-602	37	155	369
													100	2	7	⊕	-52	-161	-578			
													150	20	35	35	⊕	-91	-473			
													200	42	71	81	69	⊕	-336			
			VULKAN 10,1g/156gr #20165562	0,354	780	700	624	554	3074	2473	1967	1548	80	-2	⊕	-8	-65	-178	-601	36	152	361
													100	3	7	⊕	-53	-161	-576			
													150	20	35	35	⊕	-117	-471			
													200	43	71	81	68	⊕	-334			
			BALLISTIC TIP 7,8g/120gr #20165222	0,458	860	789	722	658	2886	2431	2035	1691	80	-4	⊕	-5	-44	-125	-430	24	99	232
													100	-2	4	⊕	-37	-116	-416			
													150	10	24	25	⊕	-67	-343			
													200	27	51	58	50	⊕	-242			
			PARTITION 9,1g/140gr #20165592	0,49	820	760	702	647	3061	2627	2243	1905	80	-3	⊕	-6	-51	-142	-478	24	99	231
													100	0	5	⊕	-42	-130	-460			
													150	14	27	28	⊕	-74	-376			
													200	32	57	65	56	⊕	-265			
6,5-284 Norma			DRYX 10,1g/156gr #20166062	0,348	850	764	683	607	3650	2949	2359	1864	80	-4	⊕	-5	-49	-140	-485	33	136	324
													100	-1	4	⊕	-41	-129	-469			
													150	13	26	27	⊕	-74	-387			
													200	31	56	64	56	⊕	-276			
270 Win.			V-MAX® 7,1g/110gr #20169402	0,37	980	891	808	729	3425	2831	2326	1895	80	-7	⊕	-1	-27	-87	-323	25	104	246
													100	-6	1	⊕	-25	-84	-319			
													150	2	15	17	⊕	-51	-269			
			SOFT POINT 8,4g/130gr #20169022	0,359	957	867	782	702	3848	3155	2569	2073	200	15	35	42	38	⊕	-193			
													80	-6	⊕	-2	-31	-95	-349	27	118	264
													100	-5	2	⊕	-28	-91	-343			
													150	4	16	18	⊕	-55	-288			
			DRYX 9,7g/150gr #20169012	0,373	870	788	711	639	3673	3015	2455	1979	200	18	38	46	41	⊕	-207			
													80	-4	⊕	-5	-46	-131	-451	29	122	289
													100	-1	4	⊕	-38	-121	-436			



















BALLISTIC DATA

BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
		V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
 TIPSTRIKE 9,1g/140gr #20169292	0,48	940	873	809	748	4022	3468	2979	2546	80 100 150 200	-6 -5 4 17	⊕ 2 16 37	-2 ⊕ 18 45	-30 -27 ⊕ 40	-93 -89 -53 ⊕	-335 -328 -274 -195	20	83	194
 VULKAN 10,1g/156gr #20169412	0,34	870	781	697	619	3824	3080	2456	1934	80 100 150 200	-5 -3 10 28	⊕ 4 24 52	-5 ⊕ 25 60	-45 -38 ⊕ 53	-130 -121 -70 ⊕	-458 -444 -369 -263	32	135	322
 ORYX 9,7g/150gr #20169322	0,373	950	863	782	705	4379	3617	2968	2415	80 100 150 200	-5 -4 6 20	⊕ 2 16 37	-3 ⊕ 19 47	-33 -29 ⊕ 42	-99 -94 -56 ⊕	-357 -349 -291 -208	26	108	255
 BALLISTIC TIP 8,4g/130gr #20169252	0,433	1000	922	849	779	4202	3573	3027	2551	2551 100 150 200	-6 -6 2 14	⊕ 1 12 30	-1 ⊕ 15 39	-25 -23 ⊕ 35	-80 -78 -48 ⊕	-296 -292 -245 -175	20	86	200
 TIPSTRIKE 9,1g/140gr #20169532	0,48	965	897	832	770	4239	3659	3148	2696	80 100 150 200	-7 -6 2 15	⊕ 1 14 34	-2 ⊕ 17 41	-27 -25 ⊕ 37	-85 -82 -49 ⊕	-311 -307 -257 -183	19	80	187
 ORYX 10,1g/156gr #20170012	0,33	805	717	635	558	3274	2598	2036	1595	80 100 150 200	-3 1 18 39	⊕ 6 32 67	-7 ⊕ 33 76	-60 -49 ⊕ 65	-167 -152 -87 ⊕	-570 -548 -450 -321	30	126	301
 TIPSTRIKE 10,4g/160gr N/A	0,51	815	786	702	649	3455	2983	2563	2190	80 100 150 200	-3 0 14 33	⊕ 5 28 57	-6 ⊕ 28 66	-52 -43 ⊕ 56	-144 -131 -75 ⊕	-481 -462 -377 -265	23	95	223
 ORYX 10,1g/156gr #20170032	0,33	795	708	626	550	3193	2531	1981	1530	80 100 150 200	-2 2 19 41	⊕ 6 33 75	-8 ⊕ 34 80	-63 -51 ⊕ 67	-173 -157 -114 ⊕	-589 -565 -464 -330	30	128	306
 TIPSTRIKE 10,4g/160gr #20170742	0,51	800	743	688	636	3329	2871	2463	2102	80 100 150 200	-3 1 16 35	⊕ 5 29 61	-7 ⊕ 30 69	-55 -45 ⊕ 59	-152 -138 -78 ⊕	-504 -484 -394 -277	24	98	229
 ECOSTRIKE 9,1g/140gr #20171182	0,443	910	839	772	707	3770	3204	2710	2277	80 100 150 200	-6 -4 6 27	⊕ 2 19 49	-3 ⊕ 20 58	-35 -30 ⊕ 44	-104 -99 -58 ⊕	-371 -363 -302 -215	23	95	222
 ORYX 10,1g/156gr #20170532	0,33	850	759	674	595	3650	2912	2297	1788	80 100 150 200	-4 -1 13 32	⊕ 4 27 57	-6 ⊕ 28 66	-50 -42 ⊕ 57	-142 -131 -76 ⊕	-496 -490 -396 -282	27	116	277



BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
7 x 64			ORYX 11g/170gr #20170202	0,324	840	749	663	583	3883	3083	2419	1872	80 100 150 200	-4 -1 14 34	⊕ 5 28 59	-6 ⊕ 29 68	-52 -43 -78 59	-148 -136 -78 ⊕	-514 -497 -410 -293	35	150	359
			PLASTIC POINT 11g/170gr #20170192	0,378	840	761	687	617	3883	3189	2596	2093	80 100 150 200	-4 -1 13 32	⊕ 4 27 56	-6 ⊕ 28 56	-50 -41 ⊕ 56	-141 -130 -75 ⊕	-486 -469 -386 -274	30	126	299
			VULKAN 11g/170gr #20170182	0,353	840	756	677	602	3883	3143	2519	1996	80 100 150 200	-4 -1 13 32	⊕ 5 27 58	-6 ⊕ 28 66	-51 -42 ⊕ 57	-144 -132 -76 ⊕	-498 -480 -396 -281	32	136	324
			TIPSTRIKE 10,4g/160gr #20171152	0,51	890	829	771	715	4121	3575	3090	2658	80 100 150 200	-5 -3 7 22	⊕ 3 20 44	-3 ⊕ 21 51	-37 -32 ⊕ 45	-110 -103 -60 ⊕	-382 -371 -307 -217	20	84	196
7 mm - 08 Rem.			BALLISTIC TIP 9,1g/140gr #20170682	0,485	860	797	737	680	3367	2893	2474	2104	80 100 150 200	-4 -1 11 28	⊕ 4 23 48	-5 ⊕ 25 58	-45 -38 ⊕ 50	-127 -118 -67 ⊕	-429 -414 -339 -239	23	93	301
			TIPSTRIKE 10,4g/160gr #20170362	0,51	820	762	706	653	3498	3021	2596	2220	80 100 150 200	-3 0 14 32	⊕ 5 27 56	-6 ⊕ 28 65	-51 -42 ⊕ 55	-141 -129 -73 ⊕	-473 -456 -372 -262	23	95	221
7 mm Blaser Mag.			ORYX 10,1g/156gr #20170872	0,33	925	829	740	657	4323	3476	2769	2179	80 100 150 200	-6 -4 7 22	⊕ 3 19 44	-3 ⊕ 21 52	-36 -32 ⊕ 46	-109 -103 -61 ⊕	-396 -384 -323 -232	30	128	305
7 mm Rem. Mag.			TSX 9,1g/140gr #20170542	0,394	950	868	791	718	4108	3430	2847	2346	80 100 150 200	-6 -5 4 18	⊕ 2 16 38	-2 ⊕ 18 45	-31 -27 ⊕ 41	-95 -91 -54 ⊕	-345 -339 -284 -203	24	102	240
			ECOSTRIKE 9,1g/140gr #20171172	0,443	950	877	808	742	4108	3500	2969	2504	80 100 150 200	-7 -6 3 16	⊕ 1 15 36	-2 ⊕ 17 43	-29 -26 ⊕ 39	-90 -87 -52 ⊕	-330 -325 -272 -194	22	90	210
			ORYX 10,1g/156gr #20170472	0,33	900	806	718	636	4092	3281	2605	2041	80 100 150 200	-5 -3 9 25	⊕ 3 22 48	-4 ⊕ 23 56	-40 -35 ⊕ 49	-119 -112 -66 ⊕	-426 -415 -345 -247	25	107	254
			ORYX 11g/170gr #20170232	0,324	880	786	698	616	4261	3398	2680	2086	80 100 150 200	-5 -2 10 28	⊕ 4 24 52	-5 ⊕ 25 60	-44 -38 ⊕ 52	-129 -120 -70 ⊕	-455 -442 -367 -262	33	140	335
			PLASTIC POINT 11g/170gr #20170272	0,378	900	818	740	666	4457	3677	3012	2444	80 100 150 200	-5 -3 8 24	⊕ 3 21 46	-4 ⊕ 22 54	-39 -33 ⊕ 47	-114 -107 -63 ⊕	-405 -394 -328 -233	22	92	217













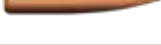



BALLISTIC DATA

BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
		V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
VULKAN 11g/170gr #20170242	0,353	900	812	729	651	4457	3627	2925	2334	80 150 200	-5 -3 8 24	⊕ 3 21 47	-4 ⊕ 23 55	-40 -34 -64 48	-117 -109 -64 ⊕	-415 -404 -336 -240	24	99	235
TIPSTRIKE 10,4g/160gr #20170142	0,51	920	858	798	741	4403	3827	3314	2857	80 100 150 200	-6 -5 5 19	⊕ 2 18 40	-3 ⊕ 19 47	-33 -29 -94 41	-99 -94 -55 ⊕	-349 -342 -284 -201	19	80	187
ECOSTRIKE 9,1g/140gr #20171192	0,443	860	792	726	664	3367	2852	2402	2009	80 100 150 200	-5 -3 1 27	⊕ 4 23 50	-4 ⊕ 24 58	-43 -37 -116 50	-125 -116 -67 ⊕	-432 -418 -345 -244	25	103	241
ORYX 10,1g/156gr #20170632	0,33	830	741	657	579	3480	2771	2179	1691	80 100 150 200	-3 -1 15 35	⊕ 5 29 61	-6 ⊕ 30 70	-54 -45 ⊕ 60	-152 -140 -80 ⊕	-527 -508 -419 -299	28	120	287
ORYX 11g/170gr #20170222	0,324	810	720	637	559	3610	2856	2231	1719	80 100 150 200	-3 1 17 39	⊕ 6 32 66	-7 ⊕ 32 75	-59 -48 ⊕ 64	-164 -150 -86 ⊕	-565 -544 -447 -318	37	158	379
PLASTIC POINT 11g/170gr #20170282	0,373	800	722	649	580	3522	2872	2319	1853	80 100 150 200	-3 1 17 38	⊕ 6 31 65	-7 ⊕ 32 74	-58 -48 ⊕ 63	-162 -148 -84 ⊕	-550 -529 -434 -308	33	138	328
VULKAN 11g/170gr #20170292	0,353	810	728	650	578	3610	2913	2326	1836	80 100 150 200	-3 1 17 37	⊕ 6 31 64	-7 ⊕ 31 73	-58 -47 ⊕ 62	-160 -146 -83 ⊕	-547 -526 -431 -306	34	144	343
TIPSTRIKE 10,4g/160gr #20171212	0,51	850	791	734	680	3759	3253	2803	2403	80 100 150 200	-4 -2 4 28	⊕ 4 24 51	-5 ⊕ 25 59	-45 -38 ⊕ 50	-127 -117 -67 ⊕	-431 -417 -342 -241	30	126	301
ORYX 10,1g/156gr #20170482	0,33	850	759	674	595	3650	2912	2297	1788	80 150 200	-4 -1 13 32	⊕ 4 27 57	-6 ⊕ 28 66	-50 -42 ⊕ 57	-142 -131 -76 ⊕	-496 -479 -396 -282	27	116	277
PLASTIC POINT 11g/170gr #20170602	0,359	957	867	782	702	3848	3155	2569	2073	80 100 150 200	-4 -1 14 33	⊕ 5 28 59	-6 ⊕ 29 68	-53 -44 ⊕ 58	-148 -136 -78 ⊕	-508 -490 -403 -286	31	132	313
VULKAN 11g/170gr #20170512	0,353	790	709	632	561	3434	2764	2201	1733	80 100 150 200	-2 2 19 41	⊕ 6 33 69	-8 ⊕ 34 78	-63 -51 ⊕ 66	-172 -156 -89 ⊕	-583 -559 -457 -325	35	149	356
TIPSTRIKE 10,4g/160gr #20171222	0,51	850	759	734	680	3759	3253	2803	2403	80 100 150 200	-4 -2 11 28	⊕ 4 24 51	-5 ⊕ 25 59	-45 -38 ⊕ 50	-127 -117 -67 ⊕	-431 -417 -342 -241	22	90	210

















BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
7,5 x 55 Swiss			DRYX 11,7g/180gr #20174722	0,354	820	737	659	586	3935	3181	2545	2013	80	-3	⊕	-7	-55	-154	-529	33	141	335
													100	0	5	⊕	-45	-141	-509			
													150	15	30	⊕	-45	-81	-418			
													200	36	62	⊕	61	⊕	-297			
7,62 x 54 R (Russian)			ALASKA 11,7g/180gr #20175552	0,257	785	675	574	484	3606	2666	1929	1371	80	-1	⊕	-10	-73	-199	-688	50	217	529
													100	4	8	⊕	-58	-179	-660			
													150	24	37	⊕	-102	-544	-391			
													200	49	76	⊕	77	⊕	-391			
308 Win.			ALASKA 11,7g/180gr #20176362	0,257	796	685	583	492	3708	2746	1990	1415	80	-2	⊕	-9	-68	-189	-660	49	212	519
													100	4	7	⊕	-56	-173	-637			
													150	21	36	⊕	-98	-524	-378			
													200	45	75	⊕	73	⊕	-378			
			ECOSTRIKE 9,7g/150gr #20174212	0,42	860	788	719	654	3589	3012	2511	2078	80	-5	⊕	-5	-49	-126	-439	26	109	256
													100	-2	4	⊕	-37	-118	-425			
													150	10	23	⊕	-68	-351	-249			
													200	27	51	⊕	51	⊕	-249			
			DRYX 10,7g/165gr #20174712	0,333	835	746	663	585	3728	2978	2351	1833	80	-3	⊕	-7	-55	-152	-522	35	147	351
													100	1	5	⊕	-45	-139	-503			
													150	14	28	⊕	-78	-411	-294			
													200	35	61	⊕	60	⊕	-294			
			DRYX 11,7g/180gr #20174732	0,354	796	715	638	567	3708	2989	2384	1879	80	-2	⊕	-8	-61	-168	-571	35	147	351
													100	2	6	⊕	-50	-153	-548			
													150	18	33	⊕	-87	-449	-319			
													200	40	67	⊕	65	⊕	-319			
			PLASTIC POINT 11,7g/180gr #20176282	0,366	796	717	643	573	3708	3011	2420	1925	80	-2	⊕	-8	-61	-167	-564	34	142	337
													100	2	6	⊕	-49	-152	-541			
													150	18	32	⊕	-86	-443	-314			
													200	39	67	⊕	64	⊕	-314			
			TIPSTRIKE 11g/170gr #20174352	0,454	800	736	675	617	3522	2981	2507	2093	80	-3	⊕	-7	-56	-154	-517	27	111	261
													100	0	5	⊕	-46	-141	-497			
													150	16	30	⊕	-80	-406	-286			
													200	36	62	⊕	60	⊕	-286			
			VULKAN 11,7g/180gr #20176602	0,315	796	705	620	541	3708	2908	2250	1716	80	-2	⊕	-8	-63	-174	-598	39	168	403
													100	2	6	⊕	-51	-159	-574			
													150	19	34	⊕	-90	-472	-336			
													200	42	70	⊕	68	⊕	-336			
			A-FRAME 10,7g/165gr #20176122	0,367	823	743	667	596	3622	2951	2381	1901	80	-4	⊕	-6	-53	-150	-515	32	135	320
													100	-1	5	⊕	-44	-138	-496			
													150	14	28	⊕	-79	-408	-290			
													200	34	60	⊕	59	⊕	-290			
			BONDSTRIKE EXTREME 11,7g/180gr #20176412	0,615	800	752	707	662	3746	3314	2922	2566	80	-3	⊕	-6	-53	-146	-483	19	80	186
													100	0	5	⊕	-44	-133	-464			
													150	15	28	⊕	-75	-376	-263			
													200	34	59	⊕	56	⊕	-263			


















BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
30-06 Spring.			ECOSTRIKE 9,7g/150gr #20174242	0,42	900	826	755	689	3930	3309	2769	2300	80 100 150 200	-6 -4 7 22	⊕ 3 ⊕ 44	-3 ⊕ 21 52	-37 -32 ⊕ 46	-110 -103 -61 ⊕	-389 -379 -315 -224	25	102	240
			ALASKA 11,7g/180gr #20176482	0,257	823	710	606	513	3964	2951	2152	1538	80 100 150 200	3 1 17 40	⊕ 6 32 68	-7 ⊕ 33 78	-61 -50 ⊕ 68	-171 -156 -90 ⊕	-604 -582 -483 -348	27	111	262
			ORYX 10,7g/165gr #20174702	0,333	900	807	720	639	4331	3483	2772	2180	80 100 150 200	-4 -2 8 26	⊕ 3 22 49	-7 ⊕ 24 57	-42 -36 ⊕ 49	-122 -113 -66 ⊕	-430 -417 -346 -247	25	105	251
			ORYX 11,7g/180gr #20174742	0,354	823	740	662	589	3964	3206	2565	2030	80 100 150 200	-3 0 15 35	⊕ 5 29 61	-6 ⊕ 30 70	-55 -45 ⊕ 60	-153 -140 -80 ⊕	-524 -505 -415 -295	33	140	332
			ORYX 13g/200gr #20176772	0,338	800	715	635	560	4162	3321	2618	2039	80 100 150 200	-3 1 17 39	⊕ 6 32 67	-7 ⊕ 33 76	-60 -49 ⊕ 65	-167 -152 -87 ⊕	-571 -549 -451 -321	36	154	368
			PLASTIC POINT 11,7g/180gr #20176532	0,366	823	743	667	596	3964	3228	2603	2077	80 100 150 200	-2 1 16 36	⊕ 6 30 62	-7 ⊕ 30 70	-56 -46 ⊕ 60	-154 -141 -80 ⊕	-523 -503 -411 -292	32	135	321
			TIPSTRIKE 11g/170gr #20174342	0,454	850	784	720	660	3975	3379	2855	2397	80 100 150 200	-5 -2 11 28	⊕ 4 24 51	-5 ⊕ 26 60	-45 -38 ⊕ 52	-129 -119 -69 ⊕	-442 -428 -352 -249	24	102	239
			VULKAN 11,7g/180gr #20176592	0,315	823	730	643	563	3964	3119	2422	1854	80 100 150 200	-2 1 17 38	⊕ 6 31 65	-7 ⊕ 32 74	-58 -48 ⊕ 63	-162 -147 -84 ⊕	-554 -533 -438 -312	38	159	383
			A-FRAME 11,7g/180gr #20175182	0,4	815	742	672	607	3887	3220	2646	2155	80 100 150 200	-3 0 15 35	⊕ 5 29 61	-6 ⊕ 30 69	-55 -45 ⊕ 59	-152 -139 -79 ⊕	-515 -496 -406 -287	30	124	293
			BONDSTRIKE EXTREME 11,7g/180gr #20186422	0,615	840	791	744	698	4130	3662	3238	2853	80 100 150 200	-4 -2 11 28	⊕ 4 24 51	-5 ⊕ 25 58	-45 -38 ⊕ 50	-127 -117 -67 ⊕	-426 -411 -336 -236	18	75	173
300 WSM			ORYX 10,7g/165gr #20174682	0,333	970	872	781	696	5031	4067	3262	2588	80 100 150 200	-6 -5 5 18	⊕ 2 17 39	-2 ⊕ 19 46	-31 -28 ⊕ 41	-96 -92 -55 ⊕	-351 -345 -289 -207	23	95	225
			ORYX 11,7g/180gr #20174752	0,354	900	812	730	653	4741	3862	3120	2493	80 100 150 200	-5 -3 8 24	⊕ 3 21 47	-4 ⊕ 23 55	-40 -34 ⊕ 48	-117 -109 -64 ⊕	-415 -403 -336 -240	29	123	292



BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
300 WSM			ECOSTRIKE 9,7g/150gr #20174222	0,42	990	911	836	765	4756	4024	3390	2839	80 100 150 200	-7 -6 1 13	⊕ 1 13 32	-1 ⊕ 16 39	-25 -23 ⊕ 36	-81 -79 -48 ⊕	-301 -298 -252 -180	22	90	210
			TIPSTRIKE 11g/170gr #20174022	0,454	975	902	833	768	5231	4479	3821	3243	80 100 150 200	-7 -6 2 14	⊕ 1 14 33	-1 ⊕ 16 37	-26 -24 ⊕ 37	-83 -80 -49 ⊕	-307 -303 -255 -182	20	84	196
			BONDSTRIKE EXTREME 11,7g/180gr #20175832	0,615	940	887	837	788	5171	4608	4097	3632	80 100 150 200	-6 -5 3 16	⊕ 1 15 35	-2 ⊕ 17 42	-29 -26 ⊕ 38	-88 -85 -50 ⊕	-315 -310 -258 -183	16	64	148
300 Norma Mag.			ORYX 13g/200gr #20174172	0,338	900	808	723	642	5267	4249	3395	2681	80 100 150 200	-5 -3 8 6	⊕ 3 21 47	-4 ⊕ 23 55	-40 -34 ⊕ 49	-118 -111 -65 ⊕	-422 -410 -342 -244	31	129	308
			ECOSTRIKE 9,7g/150gr #20174232	0,42	1000	920	845	773	4852	4107	3462	2902	80 100 150 200	-8 -7 0 12	⊕ 1 12 31	-1 ⊕ 15 38	-23 -22 ⊕ 35	-76 -75 -46 ⊕	-290 -288 -245 -175	21	89	207
			ORYX 10,7g/165gr #20174692	0,333	975	877	785	700	5083	4111	3298	2618	80 100 150 200	-6 -5 4 18	⊕ 2 16 38	-2 ⊕ 18 45	-31 -27 ⊕ 40	-95 -90 -54 ⊕	-347 -340 -286 -205	23	94	224
			ORYX 11,7g/180gr #20174762	0,354	890	803	721	644	4636	3774	3045	2430	80 100 150 200	-5 -3 9 25	⊕ 3 22 48	-4 ⊕ 24 56	-41 -35 ⊕ 49	-121 -113 -66 ⊕	-427 -415 -345 -246	30	125	297
300 Win. Mag.			ORYX 13g/200gr #20176762	0,338	850	762	679	601	4698	3772	2995	2349	80 100 150 200	-4 -1 13 31	⊕ 4 26 56	-6 ⊕ 28 65	-50 -41 ⊕ 56	-141 -130 -75 ⊕	-491 -474 -392 -279	33	141	335
			PLASTIC POINT 11,7g/180gr #20176872	0,366	920	834	753	677	4954	4069	3317	2678	80 100 150 200	-6 -5 6 21	⊕ 2 19 43	-3 ⊕ 21 50	-35 -31 ⊕ 45	-106 -101 -60 ⊕	-383 -375 -313 -224	28	115	272
			TIPSTRIKE 11g/170gr #20174362	0,454	960	888	820	755	5071	4339	3698	3136	80 100 150 200	-7 -5 2 15	⊕ 1 15 35	-1 ⊕ 17 42	-27 -25 ⊕ 38	-87 -84 -50 ⊕	-318 -314 -264 -188	21	86	201
			TSX 9,7g/150gr #20175462	0,369	980	891	807	728	4660	3850	3161	2574	80 100 150 200	-7 -6 2 15	⊕ 1 14 35	-1 ⊕ 17 38	-27 -25 ⊕ 38	-87 -84 -51 ⊕	-324 -319 -269 -193	25	105	247
			A-FRAME 11,7g/180gr #20175192	0,4	890	813	740	670	4636	3865	3200	2629	80 100 150 200	-5 -4 8 23	⊕ 3 21 46	-4 ⊕ 22 54	-39 -34 ⊕ 47	-115 -108 -63 ⊕	-407 -396 -329 -234	26	109	258





















BALLISTIC DATA

BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
		V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
BONDSTRIKE EXTREME 11,7g/180gr #20176332	0,615	940	887	837	788	5171	4608	4097	3632	80 100 150 200	-6 -5 3 16	⊕ 1 15 35	-2 ⊕ 17 42	-29 -26 ⊖ 38	-88 -85 -50 ⊕ -183	-315 -310 -258 -183	16	64	148
ORYX 10,7g/165gr #20174792	0,333	1025	923	828	740	5623	4560	3674	2932	80 100 150 200	-7 -7 0 12	⊕ 1 12 31	-1 ⊕ 15 35	-23 -22 ⊕ 35	-77 -76 -47 ⊕ -181	-297 -295 -251 -181	26	110	261
ORYX 11,7g/180gr #20174782	0,354	990	896	809	727	5736	4702	3830	3092	80 100 150 200	-7 -6 2 14	⊕ 1 14 34	-1 ⊕ 16 41	-26 -24 ⊕ 37	-85 -82 -50 ⊕ -192	-319 -316 -267 -192	26	108	255
TIPSTRIKE 11g/170gr #20174012	0,454	1000	926	856	789	5502	4717	4029	3426	80 100 150 200	-7 -7 0 12	⊕ 1 12 30	-1 ⊕ 15 37	-23 -22 ⊕ 34	-76 -75 -45 ⊕ -172	-286 -284 -240 -172	22	89	208
BONDSTRIKE EXTREME 11,7g/180gr #20176102	0,615	970	916	864	815	5507	4912	4372	3883	80 100 150 200	-7 -6 1 13	⊕ 1 ⊕ 15	-1 ⊕ -23 ⊕ 35	-25 -79 -77 -46 ⊕ -170	-289 -285 -239 -170	15	61	142	
ORYX 11,7g/180gr #20174912	0,354	900	812	730	653	4741	3862	3119	2493	80 100 150 200	-5 -3 8 24	⊕ 3 21 47	-4 ⊕ 23 55	-39 -34 ⊕ 48	-117 -109 -64 ⊕ -239	-414 -403 -335 -239	29	123	292
SOFT POINT 11,3g/174gr #20177052	0,262	760	654	557	470	3265	2416	1751	1249	80 100 150 200	-1 5 25 53	⊕ 8 41 85	-10 ⊕ 41 96	-78 -62 ⊕ 82	-212 -192 -109 ⊕ -416	-735 -704 -579 -416	41	178	434
SOFT POINT 11,3g/174gr #20177252	0,262	760	654	557	470	3262	2416	1751	1249	80 100 150 200	-1 5 25 53	⊕ 8 41 85	-10 ⊕ 41 96	-78 -62 ⊕ 82	-212 -192 -109 ⊕ -416	-735 -704 -579 -416	41	178	434
ALASKA 12,7g/196gr #20180182	0,345	730	641	558	483	3385	2607	1977	1482	80 100 150 200	0 6 28 56	⊕ 9 45 90	-12 ⊕ 44 100	-83 -66 ⊕ 85	-224 -201 -113 ⊕ -418	-754 -719 -587 -418	46	198	477
ECOSTRIKE 10,4g/160gr #20180252	0,4	820	747	677	611	3498	2899	2384	1942	80 100 150 200	-3 0 15 34	⊕ 5 29 60	-6 ⊕ 29 68	-53 -44 ⊕ 58	-149 -137 -78 ⊕ -283	-507 -488 -400 -283	29	123	291
ORYX 12,7g/196gr #20180102	0,331	730	647	570	500	3385	2662	2066	1585	80 100 150 200	1 7 29 56	⊕ 9 44 88	-12 ⊕ 44 98	-83 -66 ⊕ 83	-221 -198 -110 ⊕ -402	-734 -699 -699 -402	43	181	433
VULKAN 12,7g/196gr #20180192	0,347	730	650	576	507	3385	2687	2108	1635	80 100 150 200	0 6 27 54	⊕ 9 43 86	-11 ⊕ 43 97	-81 -64 ⊕ 81	-215 -193 -108 ⊕ -394	-717 -684 -556 -394	41	173	413

















BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
8 x 57 IS (JS)			ALASKA 12,7g/196gr #20180032	0,305	770	678	592	513	3767	2918	2226	1675	80 100 150 200	0 5 24 49	⊕ 8 39 79	-10 ⊕ ⊕ 89	-73 -58 ⊕ 75	-197 -177 -100 ⊕	-665 -636 -520 -371	43	183	441
			ECOSTRIKE 10,4g/160gr #20180262	0,4	860	784	713	645	3848	3201	2643	2164	80 100 150 200	-4 -2 11 28	⊕ 4 24 52	-5 ⊕ ⊕ 60	-45 -38 ⊕ 52	-130 -120 -69 ⊕	-448 -434 -358 -254	27	115	271
			ORYX 12,7g/196gr #20180042	0,331	770	685	605	531	3767	2979	2325	1793	80 100 150 200	-1 4 23 47	⊕ 8 38 77	-10 ⊕ ⊕ 86	-71 -57 ⊕ 73	-191 -172 -97 ⊕	-643 -614 -501 -356	39	167	400
			VULKAN 12,7g/196gr #20180202	0,347	770	688	612	541	3767	3011	2378	1857	80 100 150 200	-1 3 21 45	⊕ 7 36 74	-9 ⊕ ⊕ 84	-68 -55 ⊕ 71	-185 -168 -95 ⊕	-626 -599 -490 -347	37	159	379
8 x 68 S			A-FRAME 12,7g/196gr #20180372	0,357	900	813	731	655	5267	42991	3481	2790	80 100 150 200	-5 -3 8 24	⊕ 3 21 47	-4 ⊕ 23 55	-39 -34 ⊕ 48	-116 -109 -64 ⊕	-413 -402 -334 -239	29	122	289
			VULKAN 12,7g/196gr #20180352	0,345	900	810	726	647	5146	4170	3348	2658	80 100 150 200	-5 -3 8 24	⊕ 3 21 47	-4 ⊕ 23 55	-40 -34 ⊕ 48	-118 -110 -64 ⊕	-419 -407 -339 -242	30	127	301
338 Win. Mag.			ORYX 14,9g/230gr #20185112	0,37	840	759	683	612	5259	4299	3481	2790	80 100 150 200	-3 0 15 33	⊕ 5 27 55	-6 ⊕ 29 66	-52 -43 ⊕ 57	-145 -133 -76 ⊕	-495 -477 -391 -277	31	130	308
35 Whelen			ORYX 16,2g/250gr #20190092	0,34	740	659	583	513	4438	3518	2755	2133	80 100 150 200	0 5 26 52	⊕ 9 41 83	-11 ⊕ 41 94	-78 -62 ⊕ 79	-208 -187 -105 ⊕	-697 -665 -541 -384	40	172	410
358 Norma Mag.			ORYX 16,2g/250gr #20190072	0,34	840	753	670	594	5718	4589	3643	2856	80 100 150 200	-3 0 15 34	⊕ 5 27 56	-6 ⊕ 29 68	-53 -44 ⊕ 58	-149 -136 -78 ⊕	-511 -492 -404 -287	34	236	574
9,3 x 57			ORYX 15g/232gr #20193092	0,267	720	619	527	446	3890	2875	2084	1494	80 100 150 200	2 9 33 64	⊕ 12 48 94	-13 ⊕ 48 110	-92 -73 ⊕ 93	-247 -220 -124 ⊕	-837 -798 -652 -467	55	236	340
9,3 x 62			ALASKA 18,5g/285gr #20193152	0,365	720	645	575	511	4797	3854	3063	2412	80 100 150 200	1 7 30 57	⊕ 10 45 89	-12 ⊕ 44 99	-84 -66 ⊕ 83	-223 -199 -110 ⊕	-731 -695 -563 -397	39	165	394



BALLISTIC DATA

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
9,3 x 62			ECOSTRIKE 14,9g/230gr #20193442	0,42	805	736	670	607	4830	4034	3344	2750	80 100 150 200	-3 1 16 36	⊕ 6 30 62	-7 -7 31 71	-56 -46 -80 60	-156 -142 -411 ⊕	-524 -503 -411 -290	29	120	283
			DRYX 15g/232gr #20193072	0,267	800	693	594	505	4802	3601	2647	1911	80 100 150 200	-1 3 21 45	⊕ 8 35 71	-9 ⊕ 36 84	-67 -54 ⊕ 72	-186 -168 -96 ⊕	-643 -617 -509 -365	47	201	490
			DRYX 18,5g/285gr #20193132	0,356	720	649	583	520	4797	3900	3140	2507	80 100 150 200	0 6 28 55	⊕ 9 43 87	-81 ⊕ 43 97	-82 -64 ⊕ 81	-217 -194 -108 ⊕	-712 -678 -549 -387	37	156	369
			DRYX 21,1g/325gr #20193162	0,383	670	602	538	479	4738	3821	3054	2425	80 100 150 200	4 11 38 70	⊕ 12 55 106	-15 ⊕ 53 117	-102 -79 ⊕ 96	-265 -234 -129 ⊕	-855 -809 -651 -458	56	244	609
			PLASTIC POINT 18,5g/285gr #20193142	0,365	720	645	575	511	4797	3854	3065	2414	80 100 150 200	1 6 28 56	⊕ 9 44 88	-12 ⊕ 44 98	-83 -65 ⊕ 82	-220 -197 -110 ⊕	-726 -691 -560 -396	39	165	393
			VULKAN 15g/232gr #20193172	0,278	800	697	602	515	4802	3644	2716	1989	80 100 150 200	-1 3 21 44	⊕ 7 35 73	-9 ⊕ 36 83	-66 -54 ⊕ 71	-183 -166 -94 ⊕	-631 -605 -498 -356	45	192	466
			A-FRAME 18,5g/286gr #20193332	0,385	720	649	583	520	4797	3900	3140	2507	80 100 150 200	0 6 28 55	⊕ 9 43 87	-11 ⊕ 43 97	-82 -64 ⊕ 81	-216 -194 -108 ⊕	-712 -678 -549 -387	33	139	327
9,3 x 74 R			ALASKA 18,5g/285gr #20193202	0,365	710	636	567	503	4665	3743	2972	2339	80 100 150 200	1 7 30 58	⊕ 10 46 91	-12 ⊕ 45 102	-86 -68 ⊕ 85	-228 -204 -113 ⊕	-751 -714 -579 -409	40	169	401
			ECOSTRIKE 14,9g/230gr #20193462	0,42	780	712	647	586	4535	3778	3123	2560	80 100 150 200	-2 2 19 41	⊕ 6 33 68	-8 ⊕ 34 77	-63 -51 ⊕ 65	-170 -154 -87 ⊕	-567 -543 -442 -312	30	126	296
			DRYX 18,5g/285gr #20193322	0,356	710	634	563	498	4665	3722	2937	2296	80 100 150 200	1 8 31 60	⊕ 10 47 94	-13 ⊕ 46 105	-88 -70 ⊕ 88	-235 -207 -117 ⊕	-781 -725 -604 -428	44	189	452
			PLASTIC POINT 18,5g/285gr #20193252	0,365	720	645	575	510	4797	3852	3060	2408	80 100 150 200	1 6 28 56	⊕ 9 44 88	-12 ⊕ 44 98	-83 -65 ⊕ 82	-220 -197 -110 ⊕	-726 -692 -561 -397	39	166	395
			VULKAN 15g/232gr #20193212	0,278	780	678	585	500	4565	3454	2566	1876	80 100 150 200	-1 3 22 47	⊕ 7 37 77	-9 ⊕ 38 87	-70 -57 ⊕ 75	-193 -175 -100 ⊕	-666 -639 -526 -377	37	159	379



BALLISTIC DATA

BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND					
		V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300			
 TSX 17,5g/270gr #20195302	0,326	800	712	629	552	5602	4434	3464	2670	80 100 150 200	-3 1 18 40	⊕ 6 32 67	-7 ⊕ 33 77	-61 -50 ⊕ 66	-169 -154 -88 ⊕	-579 -557 -458 -326	38	160	384			
 ORYX 19,4g/300gr #20195202	0,32	780	691	608	532	5904	4636	3591	2744	80 100 150 200	-1 4 22 46	⊕ 8 36 71	-9 ⊕ 37 84	-69 -55 ⊕ 71	-187 -169 -95 ⊕	-631 -604 -494 -351				40	170	408
 A-FRAME 19,4g/300gr #20195032	0,325	780	693	611	536	5904	4656	3624	2784	80 100 150 200	-2 2 20 43	⊕ 7 35 73	-8 ⊕ 36 82	-66 -53 ⊕ 70	-181 -165 -94 ⊕	-619 -594 -487 -347						
 A-FRAME 25,9g/400gr #20110692	0,367	710	636	567	504	6531	5247	4172	3287	80 100 150 200	1 7 30 58	⊕ 1 46 91	-12 ⊕ 45 102	-86 -68 ⊕ 85	-228 -203 -113 ⊕	-749 -713 -577 -408	40	168	399			
 A-FRAME 32,4g/500gr #20111202	0,361	645	574	509	450	6743	5345	4197	3280	80 100 150 200	4 13 42 77	⊕ 14 60 117	-17 ⊕ 58 129	-112 -87 ⊕ 106	-292 -258 -142 ⊕	-947 -897 -723 -510				47	197	467

WE MANUFACTURE MORE THAN 200 RIFLE
BARRELS A YEAR IN OUR WORKSHOP

RIMFIRE








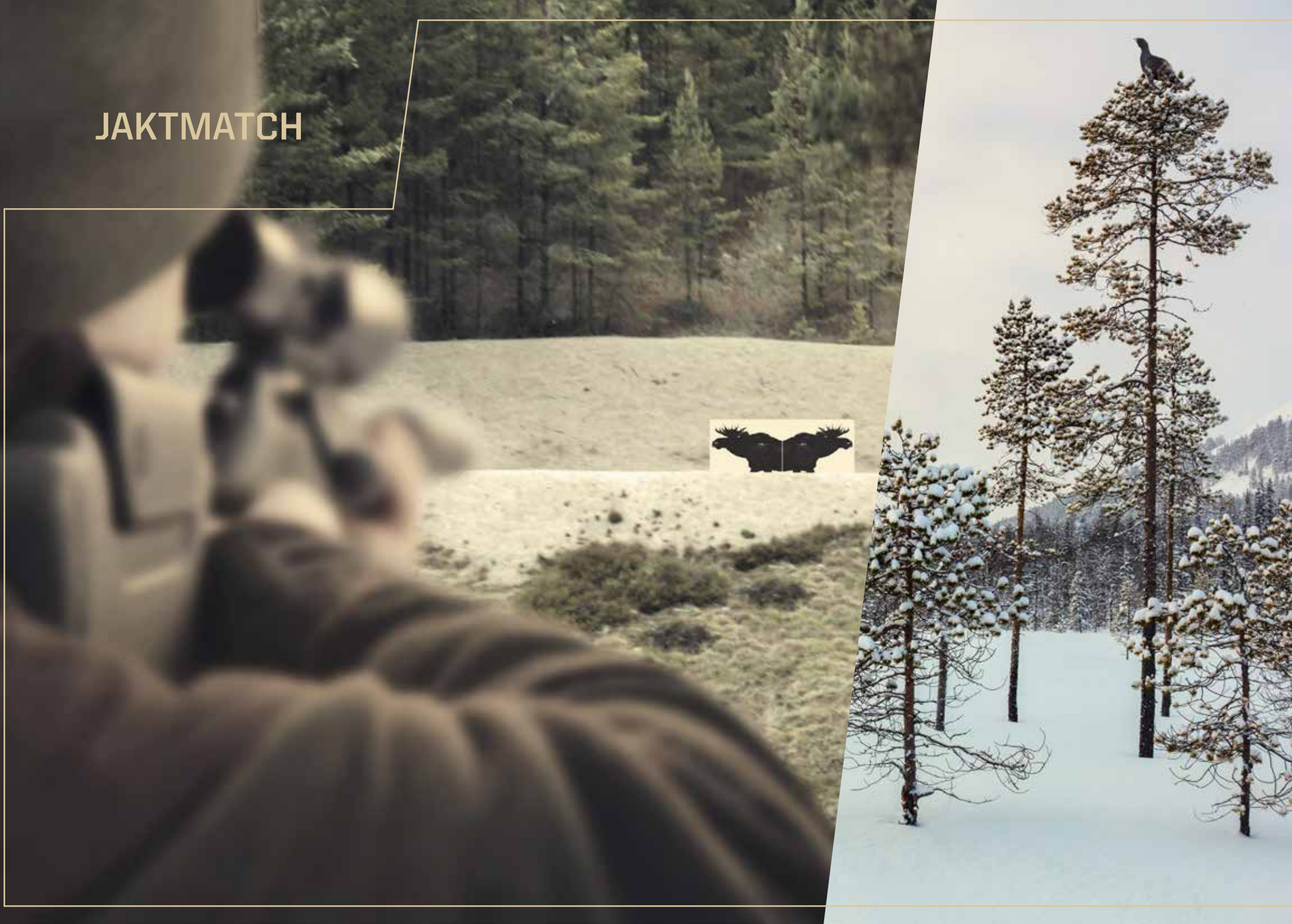
SMALL GAME, BIG ADVENTURE

In our search of the cutting-edge technologies and products for every category, we developed and improved our rimfire line with outstanding results. Our rimfire line fulfills all needs that a varmint or small game hunter can come across. For every kind of game and all hunting distances, our rimfire cartridges perform at the highest level, beating all hunters expectations. We are proud to present a complete product range for those hunters with high demands. From tipped polymer bullets with high fragmentation rates to hollow-point bullets with high kinetic energy transfer without forgetting the accuracy of the round nose tip.

DH RIMFIRE

		BULLET NAME PRODUCT NUMBER	BULLET	G	BARREL (MM)	VO	V50	V100	ZERO RANGE	0	25	50	75	100	150	UNITS
17 HMR		17 HMR #240 97 42	V-MAX®	1,1	600	777	667	568	100	0,8	NA	0,8	NA	0	-8,6	50
22 WMR		22 WMR #240 97 46	JHP	2,6	600	572	472	390	100	3,6	NA	3,6	NA	0	-20,1	50
22LR		SUBSONIC-22 #240 00 65	HP	2,6	650	315	285	264	50	NA	1,0	+	-8,5	-25,1	NA	50

JAKTMATCH





TO PERFORM THE BEST YOU NEED TO PRACTICE WITH THE BEST

























Practicing shooting on a regular basis is the only way to be a responsible hunter. Ideally, you should use the gun you hunt with and ammunition that performs consistently and is close to your hunting ammunition.

For many years, Norma Jaktmatch has been the hunter's first-hand choice of practice ammunition.

The full metal jacket and the superior precision also makes it perfect for peak hunting on long distances in the winter. All components in the Jaktmatch cartridges are of the highest quality. The fired cases provide the reloader with a top quality product for reloading.























JAKTMATCH

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
222 Rem.			FULL METAL JACKET 3,6g/55gr #20157210	0,262	760	654	557	470	3262	2416	1751	1249	80 100 150 200	-1 5 25 53	⊕ 8 41 85	-10 ⊕ 41 96	-78 -62 ⊕ 82	-212 -192 -109 ⊕	-735 -704 -579 -416	41	178	434
22-250 Rem.			FULL METAL JACKET 3,6g/55gr #20157320	0,209	1100	932	783	650	2179	1565	1105	760	80 100 150 200	-7 -7 0 12	⊕ 0 12 31	0 ⊕ 14 38	-22 -21 ⊕ 36	-77 -76 -48 ⊕	-315 -314 -272 -200	40	171	417
223 Rem.			FULL METAL JACKET 3,6g/55gr #20157260	0,209	990	835	696	571	1765	1256	873	588	80 100 150 200	-6 -4 6 22	⊕ 2 19 44	-3 ⊕ 21 52	-35 -31 ⊕ 47	-110 -104 -63 ⊕	-423 -414 -352 -258	45	196	484
243 Win.			FULL METAL JACKET 3,6g/55gr #20157260	0,351	900	784	678	580	2496	1895	1415	1035	80 100 150 200	-5 -3 1 28	⊕ 3 23 52	-4 ⊕ 25 60	-44 -37 ⊕ 53	-129 -121 -71 ⊕	-470 -457 -383 -276	40	170	413
6 XC			FULL METAL JACKET 6,2g/95gr #20160290	0,351	900	812	729	650	2512	2043	1647	1313	80 100 150 200	-4 -2 10 26	⊕ 3 22 48	-4 ⊕ 23 56	-41 -35 ⊕ 49	-120 -112 -65 ⊕	-421 -409 -339 -241	30	124	295
6,5 x 55 SE			FULL METAL JACKET 7,8g/120gr #20165420	0,428	820	751	685	623	2624	2202	1835	1518	80 100 150 200	-3 0 14 34	⊕ 5 28 59	-6 ⊕ 29 67	-53 -43 ⊕ 57	-147 -134 -77 ⊕	-497 -478 -391 -277	27	115	270
6,5 x 55 SE			HOLLOWPOINT 6,5g/100gr #20165270	0,321	800	710	626	548	2081	1641	1276	980	80 100 150 200	-2 2 18 41	⊕ 6 33 68	-8 ⊕ 34 78	-62 -50 ⊕ 67	-171 -156 -89 ⊕	-586 -563 -463 -330	38	163	392
6,5-284 Norma			FULL METAL JACKET 7,8g/120gr #20165860	0,428	950	851	780	714	3338	2824	2376	1987	80 100 150 200	-6 -4 5 19	⊕ 2 18 40	-3 ⊕ 20 48	-33 -29 ⊕ 42	-101 -96 -57 ⊕	-361 -353 -294 -209	23	96	226
270 Win.			FULL METAL JACKET 8,4g/130gr #20169070	0,365	880	796	717	642	3254	2663	2161	1736	80 100 150 200	-4 -2 11 28	⊕ 4 23 48	-5 ⊕ 25 59	-44 -37 ⊕ 51	-127 -117 -68 ⊕	-441 -427 -352 -250	29	123	292
7 x 57 R			FULL METAL JACKET 9,7g/150gr #20170062	0,441	805	739	676	616	3144	2648	2215	1839	80 100 150 200	-3 1 16 36	⊕ 5 30 62	-7 ⊕ 30 70	-56 -46 ⊕ 60	-154 -140 -80 ⊕	-516 -496 -405 -286	22	91	214
7 x 65 R			FULL METAL JACKET 9,7g/150gr #20170642	0,441	840	772	707	646	3424	2892	2428	2024	80 100 150 200	-3 0 14 32	⊕ 5 25 53	-6 ⊕ 27 64	-50 -41 ⊕ 54	-139 -127 -72 ⊕	-468 -451 -369 -260	26	107	252
7 mm Rem. Mag.			FULL METAL JACKET 9,7g/150gr #20170260	0,443	913	842	774	709	4045	3439	2909	2445	80 100 150 200	-6 -4 6 21	⊕ 2 19 42	-3 ⊕ 20 49	-35 -31 ⊕ 44	-105 -99 -58 ⊕	-371 -362 -301 -241	23	95	222



JAKTMATCH

			BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC	VELOCITY M/S				ENERGY JOULE				ZERO RANGE	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHTED IN AT METERS FOR SIGHT 40 MM ABOVE BORE						WIND DRIFT IN MM FOR A 5 M/S CROSS WIND		
					V ₀	V ₁₀₀	V ₂₀₀	V ₃₀₀	E ₀	E ₁₀₀	E ₂₀₀	E ₃₀₀		50	80	100	150	200	300	100	200	300
308 Win.			FULL METAL JACKET 9,7g/150gr #20176220	0,423	810	741	675	613	3183	2664	2212	1823	80 100 150 200	-3 0 16 35	⊕ 5 29 61	-7 ⊕ 30 70	-55 -45 ⊕ 59	-153 -139 -79 ⊕	-514 -494 -404 -286	28	118	278
30-06 Spring.			FULL METAL JACKET 9,7g/150gr #20176510	0,423	845	774	706	642	3465	2908	2424	2005	80 100 150 200	-3 0 13 31	⊕ 5 26 55	-6 ⊕ 27 63	-49 -41 ⊕ 54	-138 -126 -72 ⊕	-467 -450 -368 -260	27	111	262
300 WSM			FULL METAL JACKET 9,7g/150gr #20175730	0,423	900	826	756	690	3930	3313	2776	2310	80 100 150 200	-5 -3 9 24	⊕ 3 20 43	-4 ⊕ 22 53	-39 -33 ⊕ 46	-114 -106 -62 ⊕	-396 -384 -318 -225	24	96	238
300 Win. Mag.			FULL METAL JACKET 9,7g/150gr #20175450	0,423	935	859	787	719	4242	3583	3011	2514	80 100 150 200	-6 -4 6 20	⊕ 2 18 40	-3 ⊕ 20 48	-34 -30 ⊕ 42	-101 -95 -56 ⊕	-358 -349 -290 -206	23	96	226
8 x 57 IS (JS)			FULL METAL JACKET 8g/123gr #20180090	0,191	860	706	569	451	2960	1996	1297	818	80 100 150 200	-3 9 17 40	⊕ 5 32 70	-7 ⊕ 33 80	-60 -50 ⊕ 71	-174 -160 -94 ⊕	-652 -632 -533 -392	61	269	231
8 x 57 IRS (JRS)			FULL METAL JACKET 8g/123gr #20180162	0,191	780	635	507	402	2435	1611	1027	647	80 100 150 200	0 6 28 58	⊕ 10 43 89	-11 ⊕ 45 91	-84 -67 ⊕ 91	-233 -210 -121 ⊕	-843 -810 -676 -494	70	311	781
338 Win. Mag.			FULL METAL JACKET 14,6g/225gr #20185100	0,499	815	756	699	645	4851	4174	3573	3042	80 100 150 200	-3 0 14 33	⊕ 5 28 58	-6 ⊕ 28 66	-52 -43 ⊕ 56	-144 -132 -75 ⊕	-483 -465 -379 -267	23	98	228
358 Norma Mag.			FULL METAL JACKET 15g/232gr #20190080	0,275	800	696	600	513	4802	3634	2700	1971	80 100 150 200	-2 2 20 43	⊕ 7 35 72	-8 ⊕ 35 82	-6 -53 ⊕ 70	-18 -164 -94 ⊕	-628 -604 -498 -357	45	194	471
9,3 x 57			FULL METAL JACKET 15g/232gr #20193060	0,275	675	580	495	421	3419	2530	1842	1334	80 100 150 200	3 11 39 75	⊕ 14 58 109	-16 ⊕ 56 127	-108 -84 ⊕ 106	-285 -254 -142 ⊕	-959 -911 -743 -531	58	251	606
9,3 x 62			FULL METAL JACKET 15g/232gr #20193180	0,275	765	663	570	486	4391	3304	2439	1773	80 100 150 200	-1 4 24 50	⊕ 8 38 80	-10 ⊕ 40 92	-75 -61 ⊕ 78	-205 -185 -105 ⊕	-704 -675 -555 -397	48	208	506



RIMFIRE

BULLET NAME PRODUCT NUMBER	BULLET	G	BARREL (MM)	V ₀	V ₅₀	V ₁₀₀	ZERO RANGE	0	25	50	75	100	150	UNITS
JAKTMATCH #213 29 90	LRN	2,6	650	330	294	270	X	X	X	X	X	X	X	50

AFRICAN PH





ONE SHOT, ONE KILL IS ALL THAT COUNTS

Norma's cooperation with Woodleigh bullets offers the finest dangerous game ammunition available. Tried and tested steel-jacketed solids and bonded-core soft points are coupled with high quality Norma brass and powder and loaded under the most rigorous inspection standards in the industry. Nickered cases are used to ensure the most reliable feeding and ejection from rifles whose metal work is too hot to touch or full of the inevitable African dust. The Woodleigh FMJ bullets use a steel jacket twice as thick as any other in the industry. Cases are all hand inspected both before and after loading.

Norma Solids

For the working guide, there are three considerations for ammunition: reliable feeding, reliable ignition and reliable straight-line penetration. Many guides like to carry their rifles with an empty chamber and only load when danger threatens. The Norma Solids are designed to ensure reliable feeding in just about any make of rifle, including old, well-worn ones. The law often forces a guide to allow a charging animal to get very close before he may fire the rifle so every shot must count. Being made from a proprietary brass alloy, Norma Solids are guaranteed not to break up, turn or deviate.

All African PH ammunition is handloaded in our factory in Åmotfors.

AFRICAN PH RANGE



375 HOLLAND & HOLLAND MAGNUM

22,7 g / 350 gr

The 375 H&H Magnum is often seen as the queen of African mediums. And this versatile cartridge introduced by Holland & Holland in 1912 is an African Queen. The 375 H&H Magnum is probably the most used big game cartridge through history, and has taken its share of all African big game. And the 375 H&H Magnum is just getting better with the newest loadings.



404 RIMLESS NITRO EXPRESS JEFFERY

29,2 g / 450 gr

Introduced in 1909 and chambered in a Mauser action, the 404 became the workhorse of several African game departments. Not nearly as famous as other cartridges for African big game, it was still much more widely used. The 10.75x73 in modern loadings is better than ever, and will remain one of the greatest cartridges for big game in Africa.



375 FLANGED MAGNUM NITRO EXPRESS

19,4 g / 300 gr

In 1912, the most famous pair of big game cartridges came along: the belted 375 H&H Magnum for bolt action rifles and the 375 H&H Flanged Magnum for double rifles. They soon established themselves as the standard cartridges for the safari industry. The decline in popularity of double rifles after WWII reduced demand for 375 Flanged Magnum ammunition, and with the closure of Kynoch in 1967 supplies of factory-loaded 375 Flanged dried up – until Norma reintroduced it as part of the premium African PH line in 2008.



416 RIGBY

29,2 g / 450 gr

The 416 Rigby is one of the most famous cartridges for Africa. It was introduced in 1911 and with strong bullets and low pressures it was always reliable when hunting dangerous game. Following renewed interest in classic African cartridges, the 416 Rigby is seeing a new dawn, and more 416 Rigby rifles are being built than ever before.



416 REMINGTON MAGNUM

29,2 g / 450 gr

The 416 Remington Magnum is the first American-made 416, introduced in 1988 because of growing interest in the 416 calibre for hunting in Africa. The 416 Remington Magnum has the advantage of fitting into many common magnum actions that can take the 375 H&H, yet it delivers more or less the same ballistics and energy as the old 416 Rigby. That's enough for the whole game.



500 JEFFERY

36,9 g / 570 gr

The 500 Jeffery cartridge was first introduced around 1920 as the 12.7x70mm Schuler, and some Krieghoff-Schuler magnum rifles were chambered for it. The 500 Jeffery/12.7x70 Schuler was the most powerful rifle cartridge before WWII, loaded to higher pressures than the better known 505 Gibbs. By offering a factory loaded 500 Jeffery, Norma is achieving its ambition to meet the demands of hunters. The interest in old, large-bore African cartridges is steadily increasing.



450 RIGBY RIMLESS

35,6 g / 550 gr

It's said that all Rigby cartridges are made with Africa in mind. The newest one is the 450 Rimless and it was introduced in 1995. Based on the famous 416 Rigby, this big 45 can give strong, heavy bullets higher velocities than smaller 458 Lott cases. The 450 Rigby Rimless is still new, but it is already famous in Africa.



458 LOTT

35,6 g / 550 gr

The 458 Lott was introduced by Jack Lott in 1971. After having been injured by a buffalo in Mozambique, Lott wanted more than a 458 Winchester Magnum. To improve the 458 WM the Lott case was made three-tenths of an inch longer for more case capacity. The 458 WM cartridge can be used in firearms chambered for the 458 Lott, and many African Professional Hunters now use the 458 Lott as their preferred round.



470 NITRO EXPRESS

32,4 g / 500 gr

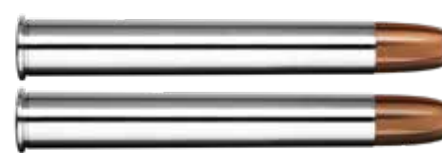
Introduced in 1900, it became popular after 1907 with the banning of 45 calibre cartridges in India and Sudan. The 470 NE is the most popular cartridge in new double rifles for big game hunting in Africa, and in modern loadings, the classic 470 NE is better than ever.



500/416 NITRO EXPRESS

26,6 g / 410 gr

Most of the classic Nitro Express cartridges are about a hundred years old. The 500/416 NE only goes back a few years and was developed by Krieghoff, who wanted a rimmed round with performance equalling that of the 416 Rigby. The 500/416 NE is a big game cartridge for double rifles using the 500 NE case and the classic 416 calibre bullet.



500 NITRO EXPRESS 3"

36,9 g / 570 gr

The 500 Nitro Express 3" was developed from black powder cartridges, and the first smokeless 500 came in the 1890s. The big 500 NE-Double became a favourite among elephant hunters, and is now in a time of renewed interest. More and more double rifles in 500 NE are being built and the time-honoured classic with new bullets will hunt in Africa again.















505 MAGNUM GIBBS













39,0 g / 600 gr

Developed by George Gibbs in 1911, the 505 was made famous by Ernest Hemingway's story, 'The Short Happy Life of Francis Macomber'. The big 505 Magnum Gibbs is enough cartridge for all African hunting, and is a formidable performer with modern bullets in a big rifle.












AFRICAN PH

		BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC SD	VELOCITY METER PER SECOND					ENERGY JOULE					TRAJECTORY, MM					MOMENTUM, KG - M/S				
				V ₀	V ₅₀	V ₁₀₀	V ₁₅₀	V ₂₀₀	E ₀	E ₅₀	E ₁₀₀	E ₁₅₀	E ₂₀₀	0	50	100	150	200	0	50	100	150	200
9,3 x 62		SOLID 17,8g/275gr #20193552	0,236 0,293	745	686	629	576	525	4942	4188	3526	2950	2455	-40	6	⊕	-68	-210	13,3	12,2	11,2	10,2	9,3
375 H&H Mag.		SOLID 19,4g/300gr #20195352	0,229 0,305	777	715	655	598	545	5871	4965	4172	3482	2887	-40	4	⊕	-61	-191	15,1	13,9	12,7	11,6	10,6
		SOFT POINT 22,7g/350gr #20195252	0,321 0,356	700	660	621	584	548	5559	4940	4376	3866	3407	-40	8	⊕	-72	-216	15,9	15,0	14,1	13,2	12,4
		FULL METAL JACKET 22,7g/350gr #20195262	0,307 0,356	700	658	618	579	542	5559	4913	4328	3800	3328	-40	8	⊕	-72	-218	15,9	14,9	14,0	13,0	12,3
375 Fl. Mag. N.E.		SOFT POINT 19,4g/300gr #20195222	0,276 0,356	730	680	631	585	541	5182	4493	3878	3331	2849	-40	8	⊕	-69	-210	14,2	13,2	12,3	11,4	10,5
		FULL METAL JACKET 19,4g/300gr #20195232	0,276 0,305	730	680	631	585	541	5182	4493	3878	3331	2849	-40	8	⊕	-69	-210	14,2	13,2	12,3	11,4	10,5
416 Rem. Mag.		SOLID 25,9g/400gr #20110752	0,247 0,330	730	674	620	569	521	6947	5924	5022	4233	3550	-40	6	⊕	-70	-215	19,0	17,5	16,1	14,8	13,6
		SOFT POINT 29,2g/450gr #20110732	0,338 0,371	655	618	583	549	516	6258	5576	4956	4395	3891	-40	12	⊕	-84	-250	19,1	18,0	17,0	16,0	15,1
		FULL METAL JACKET 29,2g/450gr #20110732	0,325 0,371	655	617	580	545	511	6258	5551	4909	4332	3815	-40	12	⊕	-85	-253	19,1	18,0	16,9	15,9	14,9
416 Rigby		SOLID 25,9g/400gr #20110762	0,247 0,330	725	669	616	565	518	6796	5791	4905	4131	3462	-40	7	⊕	-72	-221	18,8	17,3	15,9	14,6	13,4
		SOFT POINT 29,2g/450gr #20110702	0,338 0,371	655	618	583	549	516	6258	5576	4956	4395	3891	-40	12	⊕	-84	-250	19,1	18,0	17,0	16,0	15,1
		FULL METAL JACKET 29,2g/450gr #20110712	0,325 0,371	655	617	580	545	511	6258	5551	4909	4332	3815	-40	12	⊕	-85	-253	19,1	18,0	16,9	15,9	14,9

DH AFRICAN PH

		BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC SD	VELOCITY METER PER SECOND					ENERGY JOULE					TRAJECTORY, MM					MOMENTUM, KG - M/S				
				V ₀	V ₅₀	V ₁₀₀	V ₁₅₀	V ₂₀₀	E ₀	E ₅₀	E ₁₀₀	E ₁₅₀	E ₂₀₀	0	50	100	150	200	0	50	100	150	200
416 Taylor		SOLID 24,3g/375gr #20110542	0,245 0,310	715	659	606	555	508	6232	8298	4477	3762	3146	-40	8	⊕	-75	-228	17,4	16,1	14,7	13,5	12,4
500/416 N.E. 3"1/4		SOFT POINT 26,6g/410gr #20110532	0,307 0,338	710	665	622	581	542	6700	5885	5150	4490	3901	-40	9	⊕	-72	-217	18,9	17,7	16,5	15,4	14,4
		FULL METAL JACKET 26,6g/410gr #20110522	0,307 0,338	710	665	622	581	542	6700	5885	5150	4490	3901	-40	9	⊕	-72	-217	18,9	17,7	16,5	15,4	14,4
404 Jeffery (Riml. N.E. Jeffery)		SOLID 25,9g/400gr #20110352	0,247 0,319	710	655	602	553	506	6518	5545	4689	3944	3302	-40	8	⊕	-76	-233	18,4	17,1	15,6	14,3	13,1
		SOFT POINT 29,2g/450gr #20110302	0,360 0,359	655	621	588	556	526	6258	5625	5044	4515	4034	-40	11	⊕	-82	-244	19,1	18,1	17,1	16,2	15,3
		FULL METAL JACKET 29,2g/450gr #20110312	0,360 0,359	655	621	587	555	524	6258	5616	5029	4494	4009	-40	11	⊕	-83	-245	19,4	18,1	17,1	16,2	15,3
450 Rigby		SOLID 32,4g/500gr #20111042	0,269 0,340	760	707	657	608	562	9411	8153	7030	6032	5150	-40	4	⊕	-61	-189	24,7	23,0	21,3	19,8	18,3
		SOFT POINT 35,6g/550gr #20111052	0,340 0,375	640	604	569	536	505	7302	6505	5780	5125	4538	-40	13	⊕	-89	-263	22,8	21,5	20,3	19,1	18,0
		FULL METAL JACKET 35,6g/550gr #20111062	0,326 0,375	640	603	566	532	499	7302	6472	5721	5046	4444	-40	13	⊕	-90	-266	22,8	21,5	20,2	19,0	17,8
458 Lott		SOLID 32,4g/500gr #20111172	0,269 0,340	700	650	601	555	512	7964	6862	5282	5019	4266	-40	9	⊕	-76	-232	22,7	21,1	19,5	18,0	16,6
		SOFT POINT 35,6g/550gr #20111132	0,330 0,375	640	601	563	527	493	7302	6437	5657	4957	4335	-40	15	⊕	-92	-273	22,8	21,4	20,1	18,8	17,6
		FULL METAL JACKET 35,6g/550gr #20111142	0,330 0,375	640	601	563	527	493	7302	6437	5657	4957	4335	-40	15	⊕	-92	-273	22,8	21,4	20,1	18,8	17,6

AFRICAN PH

		BULLET TYPE BULLET HEIGHT G/GR PRODUCT NUMBER	BC SD	VELOCITY METER PER SECOND					ENERGY JOULE					TRAJECTORY, MM					MOMENTUM, KG - M/S				
				V ₀	V ₅₀	V ₁₀₀	V ₁₅₀	V ₂₀₀	E ₀	E ₅₀	E ₁₀₀	E ₁₅₀	E ₂₀₀	0	50	100	150	200	0	50	100	150	200
458 Win. Mag.		SOLID 32,4g/500gr #20111182	0,269 0,340	640	592	547	504	464	6638	5685	4846	4116	3489	-40	15	⊕	-97	-290	20,7	19,2	17,7	16,3	15,0
470 N.E.		SOFT POINT 32,4g/500gr #20112052	0,374 0,318	640	607	575	544	515	6638	5970	5357	4798	4292	-40	13	⊕	-88	-258	20,7	19,7	18,6	17,6	16,7
		FULL METAL JACKET 32,4g/500gr #20112062	0,338 0,371	640	607	575	544	515	6638	5970	5357	4798	4292	-40	13	⊕	-88	-258	20,7	19,7	18,6	17,6	16,7
500 Jeffery		SOLID 35g/540gr #20113182	0,239 0,300	730	672	617	564	515	9381	7956	6705	5617	4680	-40	7	⊕	-71	-218	25,6	23,6	21,7	19,8	18,1
		SOFT POINT 36,9g/570gr #20113162	0,350 0,313	670	636	603	571	540	8293	7467	6709	6016	5384	-40	10	⊕	-78	-231	24,7	23,5	22,3	21,1	19,9
		FULL METAL JACKET 35,6g/550gr #20111062	0,350 0,313	670	634	599	566	534	8293	7427	6635	5914	5261	-40	11	⊕	-79	-234	24,7	23,4	22,1	20,9	19,7
500 N.E. 3"		SOFT POINT 36,9g/570gr #20113012	0,368 0,313	640	607	575	544	514	7569	6802	6100	5461	4881	-40	13	⊕	-87	-257	23,6	22,4	21,2	20,1	19,0
		FULL METAL JACKET 36,9g/570gr #20113022	0,350 0,313	640	605	571	539	508	7569	6764	6032	5367	4770	-40	13	⊕	-88	-261	23,6	22,4	21,1	19,9	18,8
505 Mag. Gibbs		SOLID 35g/540gr #20113122	0,242 0,302	700	644	591	541	494	8603	7288	6136	5137	4282	-40	9	⊕	-79	-242	24,5	22,6	20,7	19,1	17,3
		SOFT POINT 39g/600gr #20113102	0,360 0,336	640	606	573	542	511	7966	7142	6389	5705	5087	-40	13	⊕	-88	-259	24,9	23,6	22,3	21,1	19,9
		FULL METAL JACKET 39g/600gr #20113112	0,360 0,336	640	606	573	542	511	7966	7142	6389	5705	5087	-40	13	⊕	-88	-259	24,9	23,6	22,3	21,1	19,9



OPR

*Dedicated
Precision*

CARSTEN BRANDT AT THE SHOOTING RANGE





DEDICATED TO PRECISION

We are proud of our sponsored shooters that fill the podiums all over the world with their rifles loaded with Norma's factory loads.

Working with shooters, improving our products and ensuring that we always deliver precision are important parts in our research and development to match the high standards of elite shooters around the world.

Our task is to deliver precision in every shot so that your ammunition is just an extension of your own capacity as a shooter. Our Dedicated Precision™ line features the finest components and highly designed factory loads for the most intense competitions. Whether you're racing through one of the toughest stages of the weekend, or focusing your crosshairs on the x-ring, Norma has the ammunition for you.

A portrait of Trenton Mitsuoka, a 5-time world champion shooter. He is wearing a blue polo shirt with various logos, including 'TINTON MITSUOKA', 'BULL', 'norma', and 'CAS'. He is also wearing a dark cap with '[TK]' on it. The background is a blurred outdoor setting.

TRENTON MITSUOKA, USA
5 TIMES WORLD CHAMPION

DEDICATED TO WINNING

Norma Ammunition has helped shooters win on the biggest stages in the world. The Olympics? Check. World Championships? Yes. National competitions? Definitely. All of this momentum continues as Norma adds new offerings and all-new categories. Not to be lost is Norma's formidable rifle lineup. We literally load the best bullets in the world—and work to optimize our factory-loaded offerings.

Our heritage and reputation are both founded on strict quality controls and the pursuit of perfection. The calibers and combinations you see in this year's lineup are a result of another year of development, testing, competing and feedback. No matter where you're shooting and what's at stake, choose a Norma offering in your chamber to help get you to the winner's circle.

Our new range of rimfire products are loaded to strict tolerances for the best performance. The top competitors in the world choose Norma and we bring that level of quality to each load we make. We test frequently and select only the most consistent ammunition. This allows us to put 22 LR products in the hands of the planet's most accomplished shooters with the utmost confidence that our ammunition will deliver with each pull of the trigger. Loading top-of-the line ammunition in three major categories shows Norma's commitment to this discipline of shooting. We know that each trip to the range isn't a competition. But we also understand that quality and attention to detail should be the same. Norma has been producing the finest ammunition in the world for more than 115 years. Let the tradition, quality and innovation work for you. Our Dedicated Precision line carries all that we've learned, all that we've invented and all that we strive to be.



RAJMOND DEBEVEC, SLOVENIA,
3 OLYMPIC AND 5 WORLD CHAMPIONSHIP MEDALS



ELIN ÅHLIN, SWEDEN,
EUROPEAN AND WORLD CHAMPIONSHIP MEDALS



ANDERS BROLUND, SWEDEN,
FORMER EUROPEAN CHAMPION AND NORMA EMPLOYEE

NATIONAL SHOOTING

DIAMOND LINE

6,5x55 BANA

Superior ammunition for National Match Shooting, this load gives perfect muzzle velocity. The high BC gives low drift and maximum accuracy. Recoil is low, and the molycoated 130-grain hollow point makes for long barrel life.



6,5x55 FÄLT

A top field shooters' favourite, loaded for maximum accuracy at long ranges. High muzzle velocity and BC give low trajectory and minimal drift, and the moly-coated 130-grain hollowpoint provides long barrel life.



GOLDEN TARGET

6,5x55 BANA & FÄLT

This is an all-round cartridge for match and field shooting competition, loaded with a 130-grain uncoated hollowpoint. It exhibits top accuracy but costs less.



308 Win

This new 308 Winchester Match cartridge is loaded with a 150-grain uncoated full metal jacket bullet and exhibits match accuracy at a lower price than the 308 Diamond Line.



30-06

A 30-06 match cartridge with very good accuracy, the Golden Target is loaded with an uncoated 150-grain full metal jacket projectile.



BANSKYTTE/REKRUTT

6,5x55

This is an accurate training and competition round with low recoil and excellent results at a low price. It is loaded with a 100-grain uncoated hollow point.



INTERNATIONAL SHOOTING

6XC

The task of improving on the 6 BR is not at all easy, but we feel that the 6XC is at great contender. Many shooters claim they shoot better with the 6XC than anything under heaven. Whenever wind is an issue, the 6XC should be your choice.



308 Win MATCH

This is the classic cartridge for international match competitions using standard and free rifles. It is loaded with a 10,9 g molycoated hollowpoint bullet.



6MM NORMA BR

For ten years, this has been the dominant cartridge in international Match events. The 6mm Norma BR is the perfect combination of extreme accuracy, minimal drift and light recoil. It is the most frequently used round for major international championships, and uses a molycoated hollowpoint weighing 6,8 g.



LONG-RANGE SHOOTING

300 NORMA MAGNUM

The .300 Norma Mag. .30 caliber round, making use of the 14,9 g and 15,6 g match bullets, was designed so that the same set of headspace gauges and magazines could be used for rifles chambering the .300 NM as the .338 NM. This .30 caliber cartridge, offers long-range shooting and good barrel life with high velocities. 338 NORMA MAGNUM Jimmie Sloan was given a clean slate to design the 'ideal' .338 cartridge for shooting a 19,4 g Sierra Match King bullets with the best accuracy and highest possible velocity within a maximum loaded cartridge length of 93,5 mm (3.68"). The result is the .338 Norma Magnum.



338 NORMA MAGNUM

Jimmie Sloan was given a clean slate to design the ideal .338 cartridge for shooting a 19,4 g Sierra Match King bullets with the best accuracy and highest possible velocity within a maximum load cartridge length of 93,5 mm (3.68"). The result is the .338 Norma Magnum.



SHORT-RANGE SHOOTING

22 LONG RIFLE

Norma Match Training is reasonably priced, high quality ammunition for practice and competition - for both professional match and biathlon shooting.



Dedicated
Precision

DPR

RIMFIRE



UNMATCHED ACCURACY EVERY TIME



























Norma is proud to present a new line of rimfire cartridges for sport shooters that will satisfy the needs of our most demanding customers. We offer the highest quality levels and performance rates you can ask for and our rimfire line follows the toughest manufacturing controls of the industry.

With our own manufacturing process we control every step in the production line in order to ensure that every batch meets our high standards.

We are proud to present our new line of .22 LR. Our rimfire cartridges are produced to execute perfectly in every category. No matter if you are competing, training or shooting different kind of targets with a semi-auto, single action or repeating rifle, our Norma rimfire range will always deliver according to your needs.




BALLISTIC DATA

			BULLET NAME BULLET TYPE PRODUCT NUMBER	BC	BULLET WEIGHT		BARREL LENGTH mm	VELOCITY M/S V_0	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHT IF SIGHTED IN AT METERS. FOR SIGHTS 40 MM ABOVE BORE						WINDDRIFT	
					Grain	Gram			100	200	300	400	500	600	300	600
223 Rem.			MATCH KING HPBT #10157502	0,372	77	5	610	850	153	179	⊕	-433	-1188	-2358	300	1421
6 mm Norma BR DL			DIAMOND LINE COATED HPBT #10160162	0,517	105	6,8	660	850	138	160	⊕	-372	-992	-1904	207	931
6 XC / Diamond Line			DIAMOND LINE COATED HPBT #10160182	0,517	105	6,8	660	920	113	134	⊕	-312	-830	-1590	184	824
6,5 Creedmoor			GOLDEN TARGET HPBT #10166312	0,548	130	8,4	660	869	129	150	⊕	-346	-919	-1757	187	835
6,5 x 55 SE / Diamond Line Bana			DIAMOND LINE FIELD COATED HPBT #10165000	0,548	130	8,4	670	830	144	166	⊕	-383	-1019	-1949	201	898
				0,548	130	8,4	740	850	136	157	⊕	-363	-966	-1847	194	866
6,5 x 55 SE / Diamond Line Fält			DIAMOND LINE FIELD COATED HPBT #10165300	0,548	130	8,4	740	900	118	138	⊕	-320	-850	-1624	178	792
6,5 x 55 Ban- skytte / Rekrutt			HOLLOW POINT REKRUTT HP #10165230	0,345	100	6,5	740	800	182	212	⊕	-523	-1450	-2906	360	1727
6,5 x 55 SE / Golden Target			GOLDEN TARGET 8,4g/130gr #10165130	0,548	130	8,4	740	830	144	166	⊕	-383	-1019	-1949	201	898
6,5 - 284 Norma / Golden Target			GOLDEN TARGET HPBT #10166092	0,548	130	8,4	660	935	107	127	⊕	-294	-781	-1491	169	749
308 Win. / Golden Target			FULL METAL JACKET FMJ #10175230	0,438	150	9,7	740	830	154	178	⊕	-421	-1136	-2210	257	1188
308 Win. / Diamond Line			DIAMOND LINE MATCH COATED HPBT #10176152	0,470	168	10,9	610	777	180	200	⊕	-470	-1270	-2470	239	1083
30-06 Spring. / Golden Target			FULL METAL JACKET FMJ #10175630	0,438	150	9,7	610	850	148	168	⊕	-399	-1076	-2092	248	1145

DPR BALLISTIC DATA

			BULLET NAME BULLET TYPE PRODUCT NUMBER	BC	BULLET WEIGHT		BARREL LENGTH	VELOCITY M/S V_0	HEIGHT OF TRAJECTORY ABOVE LINE OF SIGHT IF SIGHTED IN AT METERS. FOR SIGHTS 40 MM ABOVE BORE						WINDDRIFT	
					Grain	Gram	mm		100	200	300	400	500	600	300	600
300 Norma Mag.			HYBRID TARGET HPBT #20174602	0,743	230	14,9	660	910	108	126	⊕	-285	-747	-1404	126	543
			HYBRID TARGET MATCH COATED HPBT #20174182	0,743	230	14,9	660	910	108	126	⊕	-285	-747	-1404	126	543
338 Norma Mag.			DIAMOND LINE MATCH COATED HPBT #20185012	0,768	300	19,4	660	810	144	163	⊕	-365	-953	-1791	144	621
			MATCH KING HPBT #20185262	0,768	300	19,4	660	810	114	163	⊕	-365	-953	-1791	144	621
338 Lapua Mag.			MATCH KING HPBT #10285192	0,587	250	16,2	685	860	131	151	⊕	-346	-915	-1742	176	780
			MATCH KING HPBT #10285212	0,768	300	19,4	685	810	144	163	⊕	-365	-953	-1791	144	621

DPR RIMFIRE

			BULLET NAME PRODUCT NUMBER	BULLET	G	BARREL (MM)	V0	V50	V100	ONE SHOOT	0	25	50	75	100	150	UNITS
.22LR			MATCH-22 #231 89 80	LRN	2,6	650	330	294	270	X	X	X	X	X	X	X	50
.22LR			TAC-22 #231 87 16	LRN	2,6	650	330	294	270	X	X	X	X	X	X	X	50

DC

*Dedicated
Components*



DEDICATED TO RELOADING

In many aspects, reloading is more a science than an art. In its simplest form, it is carefully following a step-by-step instruction, with a handful of instruments and components at hand. In time, you will master the basics and then you can develop your hobby endlessly.

So why would you reload? The first reason might be to save costs. But unless you are a very enthusiastic shooter, it will take a while before your hobby will pay off financially.

Maybe you are looking for a very specific performance of your ammunition. Or you just want to experiment with your biggest hobby? Either way, reloading gives you a deeper understanding of your ammunition and the intricate interaction of the components in your cartridge.

Norma components are the top choice of ammunition manufacturers and reloaders around the world. With more than a century of experience loading ammunition in our factories, we understand what it takes for reloaders to have what they need to succeed.





NORMA HALL OF FAME

ORYX

Oryx is one of our most reliable and well-known hunting bullets. At Norma we have developed a unique bonding method fusing the core and the jacket giving the bullet unique characteristics. A carefully engineered jacket, combined with a bonded core, yields a bullet that will not fragment even if heavy bone is hit, but will fully expand to a large diameter even when only soft tissue is encountered. The construction of the Oryx bullet allows a relatively thin jacket. Stringent demands on the material, measurement and weight combined with the construction and manufacturing process, ensures superior accuracy.

VULKAN

The Vulkan was an evolution of the Norma Cup handgun ammunition. The construction is a hollow point with the jacket folded over the walls at the nose to delay the explosive expansion of the bullet upon impact. A locking ring is incorporated in the design to minimize jacket and core separation. Internal scoring guides the fragmentation of the front half of the bullet into six major pieces. The bullet has found a particular group of users amongst wild boar hunters who want to ensure that the bullet has reached the lungs before expanding so as to minimize meat loss and yet guarantee a quick kill.

ALASKA

The Norma Alaska is the result of a century of evolution of Paul Mauser's original expanding bullet designs. Given the level of technology in the 1880's when Mauser first introduced modern style ammunition, production tolerances were decidedly 'sloppy' by current standards. Mauser and his team needed a bullet that would shoot just as well in a rifle with an oversized muzzle or a worn bore as in a new rifle. The final step was to accommodate it to Scandinavian hunting conditions. It needed to open reliably and not over penetrate on moose to endanger the dog or other hunters. At the same time, most hunters were actually hunting for food, and minimizing meat damage was an important consideration. The thickness of the jacket walls has changed slowly over time to cope with higher modern velocities but one of the key points has been the use of pure lead for the core so that it doesn't fragment and contaminate the surrounding meat.

STRIKE FAMILY

See page 22-23





TIPSTRIKE			
The instant game stopper			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 390 m
170	11,0		



ECOSTRIKE			
The modern lead-free choice			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 370 m
150	9,7		



ORYX			
The bonded allround favourite			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 290 m
180	11,7		



VULKAN			
Protected point with instant kill			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 270 m
180	11,7		



PLASTIC POINT			
Aggressive expansion			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 290 m
180	11,7		



ALASKA			
Round nose - a time proven classic			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 230 m
180	11,7		



SOFT POINT			
Efficient and allround			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 310 m
130	8,4		



FMJ			
High quality full metal jacket Non-expanding			
Bullet weight		Caliber	Released energy
Grains	Gram	30-06 Spring	>2000 J to 310 m
150	9,7		

FIND THE FULL RANGE OF BULLETS AT WWW.NORMA-AMMUNITION.COM

NORMA'S SUPERIOR BRASS CASES

Norma products are known worldwide for high quality. Cartridge cases are an important factor in this reputation. Superior quality ensures a long life and many reloads. Norma cases are made of the best possible raw materials with the narrowest tolerances, and they deliver accuracy round after round.

The case neck is annealed to become softer. This prevents gas leaks and enables the case to hold the bullet firmly for at least 10 years without cracking as a result of aging material.

Further down the case body, the hardness increase to avoid unnecessary stretching. If it is too hard, it would bring the risk of cracks. Furthest down, around the primer pocket, the brass should be firm. Here, the hardness is nearly twice that of around the neck.

The structure of the material reveals the hardness. During processing the large, soft grains are broken down into smaller ones, which makes for a harder material. At the annealing, small grains become bigger and the hardness decreases.

CALIBRE	PRODUCT#
17 Rem.	# 20243011
204 Ruger	# 20255101
5,6x52R	# 20256041
220 Swift	# 20257011
221 Rem. Fireball	# 20256026
300 AAC Blackout	# 20275061
222 Rem.	# 20257111
223 Rem.	# 20257211
22-250 Rem.	# 20257311
22 PPC USA	# 10257101
243 Win.	# 20260011
6 PPC USA	# 10260101
6mm Norma BR	# 10260151
6mm XC	# 10260181
25-06	# 20264111
6,5-284	# 20265281
6,5 Jap.	# 20265311
6,5 Carcano	# 20265351
6,5x54 MS	# 20265451
6,5 Creedmoor	# 20265131
6,5 Grendel	# 20265111
6,5x55	# 20265511
260 Rem.	# 20266021
264 Win. Mag.	# 20268021
270 Win.	# 20269011
270 WSM	# 20269071
7x57	# 20270011
7x57R	# 20270041
7x61 Super	# 20270111
7x64	# 20270121
7x65R	# 20270181
7mm Rem. Mag.	# 20270211
7mm RUM	# 20270251

CALIBRE	PRODUCT#
7mm Blaser	# 20270451
7mm-08 Rem.	# 20270221
280 Rem.	# 20270501
7,5x55 Swiss	# 20275111
300 Norma Mag.	# 20275611
300 SAUM	# 20276111
300 RUM	# 20276861
300 Blaser Mag.	# 20276821
308 Win.	# 20276231
7,62x54R	# 20276341
308 Norma Mag.	# 20276371
30-06	# 20276401
300 H&H	# 20276531
300 Win. Mag.	# 20276661
300 WSM	# 20276761
7,65 Arg.	# 20277011
7,7 Jap.	# 20277211
8x57 JS	# 20280011
8x57 JRS	# 20280141
338 Win. Mag.	# 20285041
338 Lapua Mag.	# 10285071
338 Norma Mag.	# 20285201
338 Blaser Mag.	# 20285251
358 Norma Mag.	# 20290011
35 Whelen	# 20290021
9,3x57	# 20293011
9,3x62	# 20293111
9,3x74R	# 20293211
375 H&H Mag.	# 20295011
375 Blaser Mag.	# 20295211
375 Flanged Mag. NE	# 20295151
404 Rimless NE	# 20210431
416 Rigby	# 20210601

CALIBRE	PRODUCT#
416 Taylor	# 20210671
416 Rem. Mag.	# 20210691
500/416 NE	# 20210701
45 Basic	# 20211231
45-120	# 20211251
450 Rigby Rimless	# 20211401
458 Win.	# 20211551
458 Lott	# 20211571
470 NE	# 20211631
500 Jeffery	# 20213151
500 NE	# 20213001
505 Magnum Gibbs	# 20213101

WEATHERBY MAGNUM

224 Wby. Mag.	# 20257401
240 Wby. Mag.	# 20260201
257 Wby. Mag.	# 20265021
270 Wby. Mag.	# 20269121
7 mm Wby. Mag.	# 20270321
300 Wby. Mag.	# 20276601
30-378 Wby. Mag.	# 20276771
338-06 Wby. Mag.	# 20285111
338-378 Wby. Mag.	# 20285161
340 Wby. Mag.	# 20286021
375 Wby. Mag.	# 20295131
378 Wby. Mag.	# 20295121
416 Wby. Mag.	# 20210651
460 Wby. Mag.	# 20211601

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The shooter using Norma powder can safely trust that loading data, pressure, velocity and accuracy are maintained at the same high level from lot to lot. A flexible range of powders offers the handloader many opportunities to load the best possible cartridges in any calibre choice.

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NORMA 200 POWDER

Our fastest-burning propellant is suitable for smaller cartridges such as the 222 Remington and 22 Hornet. It can also be used to shoot lightweight, low velocity bullets in medium calibres such as the 308 Win. 500 g/canister. Product # 20932005

NORMA 201 POWDER

This is very suitable for calibres with small case volume in relation to the bore size, such as 9,3x57 and 45-70. It's also the right choice for shooting lightweight bullets in medium-sized cases such as the 30-06. 500 g/canister. Product # 20932015

NORMA 202 POWDER

Specially developed to provide maximum performance in the 308 Winchester, 202 is a very useful powder for cases with medium capacity compared to calibre, such as the 8x57, 9,3x62 and 9,3x74R. 500 g/canister. Product # 20932025

NORMA 203B POWDER

Specifications for 203B differ slightly from the previous 203 powder. It is flexible, and is useful from 22-250 to 358 Norma Mag. It is very suitable for 6 mm Norma BR and 308 Winchester loaded with heavier bullets. 500 g/canister. Product # 20932035

NORMA 204 POWDER

A slow-burning propellant, 204 provides good performance and quite good accuracy in calibres such as 6,5x55 and 30-06. 500 g/canister. Product # 20932045

NORMA MRP POWDER

A very flexible magnum powder, MRP is suitable for calibres with relatively large case volume in relation to the calibre. It has been well-known for many years as a high performance powder in all magnum calibres. 500 g/canister. Product # 20932155

NORMA 217 POWDER

This is a very flexible magnum powder, suitable where there is relatively large case volume in relation to the bore size. It has been well-known for many years as a high performance powder in all magnum calibres. 500 g/canister. Product # 20932175

NORMA URP POWDER

A high-energy, mid-range propellant, URP is an excellent choice for medium-sized cartridges such as 7x64 and 30-06. 500 g/canister. Product # 20932195

NORMA MATCH POWDER 1211

500 g/canister. Product # 10932115

NORMA MATCH POWDER 1214

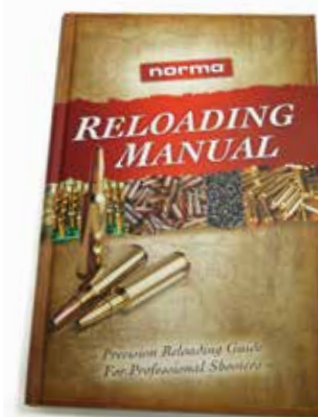
500 g/canister. Product # 10932145

Reloading data for sports and hunting cartridges are available at www.norma-ammunition.com or in Norma's Reloading Manual. Please note that for the match powders 1211 and 1214 data may be found only on the cans.

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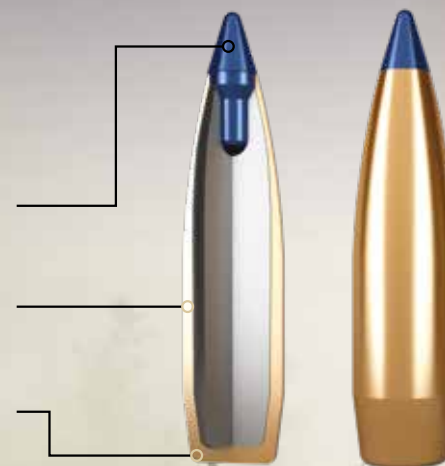
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Extreme Long Range

A winning combination of streamlined polymer tip and match-style boat tail

Unique bonding technology and state-of-the-art design

Extreme accuracy and terminal performance at all distances



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