IT'S A PRIVILEGE
The manufacture of hunting and match ammunition is a question of insight, respect and confidence.

INSIGHT
We understand the practical demands of ammunition, in the forest as well as at the target range. So when you load your weapon with cartridges from Norma, you can rest assured that you’ve chosen the very best.

RESPECT
It doesn’t matter whether you’re standing before a huge buffalo in the African savannah, or you are stalking a Fallow Buck on a warm afternoon in May. We know that you expect highest standards for your ammunition, regardless of where you are. Maximum reliability, high accuracy and optimal performance of the cartridge are always of equal importance. There is a big difference between shooting in a world championship and just target practicing for the hunt. We place high demands on ourselves to make sure that your ammunition is of the highest quality available. No matter what task you ask of it.

CONFIDENCE
Norma is a world-leading producer with more than 100 years’ experience in manufacturing ammunition for hunters and expert shooters. Our line includes more than 132 different types of cartridges in more than 45 calibers. We conduct continuous research and development using the knowledge and experience of hunters and expert shooters around the world as a base so that we can be even better.

IT’S OUR STYLE TO RESPECT YOUR CONFIDENCE IN US.
Quite a few times during the last several years, I’ve stopped, looked around me, pinched myself and said “You are one privileged guy, Torbjörn!” I remember, a cold clear winter morning with sparkling snow and radiant sunshine in the Nebraska hills, hunting buffalo, or lying in wait for wild boar and deer on a hunting stand in a beech wood forest along the shores of the Danube in Hungary. A meeting with eternity in Namibia.

It’s an overwhelming feeling of peace, solitude, and closeness to nature where we all originated.

I think about all the people who have never had the opportunity to experience these things and I realize how fortunate that I am. Opportunities come and go and nothing lasts forever, so as long as I have the chance and am able, I’ll continue to enjoy these unequalled opportunities.

When I joined Norma, I did not have the faintest idea about the joy of hunting. It has been eight years since I left the electronics industry, which is a marvel of high technology, super fast machines and progress. But it’s hard to get excited over a green circuit board full of components, wired for some unknown purpose. What is exciting is a Sauer 202 rifle with a Schmidt & Bender scope at your side on the hunt. It makes me happy to think about it.

Our products are hi-tech, but hunting is based on feelings. You can discuss technology as long as you want to but in the end, you follow your heart when it comes to choosing a gun or ammunition. That’s how hunters are wired, and they often choose Norma.

We’re grateful for that!

TORBJÖRN LINDSKOG, CEO
Making first-class ammunition requires everything from manual control by a trained and reliable eye to advanced lab and measurement equipment. The combination of sound knowledge, individual creativity and modern technology forms the basis to meet the realistic requirements for effective ammunition.

PERSONAL EXPERTISE – MODERN TECHNOLOGY

Bonding | Measuring hardness | Gauging

Schmidt & Bender telescopic scope
Compact, durable and elegant. Perfect in extreme conditions and low light.
The Zenith model is the shortest scope on the market with a 56 mm objective lens. Available with illuminated and Flashdot reticle.
Info: www.schmidtbender.com

Sauer 202 rifle
A reliable hunting partner with unbeatable accuracy.
Modular system with interchangeable barrels of various calibers. Steel or aluminum receiver and a magazine capacity of 3-5 rounds.
Effective trigger guard safety lock, one of the quietest on the market.
More info: www.sauer-waffen.de
From an international perspective, Sweden is a unique country to hunt. It offers a fantastic hunting experience.

The concentration of moose is higher than in any other country in the world. Over the last 100 years 4.5 million moose have been harvested. At least 3 million of these were shot with Norma cartridges.

The use of Norma ammunition for hunting has provided us with the experience and awareness of the demands that our customers place on us.

Our awareness of what our customers demand, has created first-rate ammunition for both hunting and elite level competition shooting. The Norma team has the expertise and in-depth know how to provide the best.

Our key persons in production, development and sales are all skilled hunters, active shooters, or have a back-ground in high level shooting competition. We are proud of our people.

They settle only for the best, and this has made Norma a world leader in the manufacture of civilian ammunition.
Oryx combines rapid expansion and energy delivery with maximum weight retention and deep penetration. This is a necessity to insure safe and effective shooting results at different distances, on game of all sizes.

**PERFECT EXPANSION**
The specially and carefully designed forward portion of the jacket lets the Oryx bullet expand rapidly to more than twice its diameter. The core, however, remains firmly against the jacket wall even when heavy bone is hit and the bullet seldom loses more than 10% of its original weight.

**LARGE WOUND CHANNEL**
A large frontal surface and minimal weight loss of the bullet provides deep penetration and a broad, permanent wound channel that quickly downs the animal. The natural choice for hunters with high standards.

Oryx has become a great success. The ever increasing demand from hunters has expanded our range of ammunition offered with the Oryx bullets.

See page 10.
"Bonding" is when a bullet’s jacket and core are soldered together to add strength and prevent jacket separation under high stress.

SUPERIOR ADHESION
For Oryx, Norma uses a very advanced bonding process that provides superior adhesion between the jacket and core. The forward jacket wall must be thinned and properly dimensioned to achieve perfectly controlled expansion even at low velocities or with soft-tissue hits.

INTERNAL SPLITTING ZONES
The Oryx tip has internal splitting zones and a special technique leaves the outermost part of the tip unbonded. These details distinguish Oryx from other bonded bullets and make it very versatile under the most diverse hunting conditions.

ORYX
The Oryx holds together even when there is a solid hit on heavy bone, and leaves few fragments in surrounding tissue. This also prevents the bullet from deviating from its course inside the body cavity.

SOFT POINT
A conventional soft point bullet often fragments when bone is hit.
In the worst case, there is total fragmentation or the core can separate entirely from the jacket.

HOW YOUR ORYX BULLET WORKS
The speed and extent of a bullet’s expansion depends on the striking velocity and the resistance met. But it’s not always possible to determine the shooting distance or size of the game beforehand. That is why Oryx is designed to work even in extreme cases. Low striking velocity and light game or heavy game at close range makes no difference – Oryx always performs properly.

Superior adhesion between jacket and lead core. A ground down Oryx bullet can easily tolerate being twisted 90 degrees without the jacket separating from the core.
Successful hunting is seldom due to luck or chance. More likely, it is because skillful and experienced hunters have the ability to use their skills properly, even under difficult circumstances.

They don’t worry about details concerning the firearms and equipment either. Those can be prepared and checked in peace and quiet before the hunt.

When the opportunity arises, though, and the gun is lifted to the shoulder, it’s not just your own abilities that are put to the test.

**YOU CAN COUNT ON NORMA**

You have to be able to count on the cartridge you’ve loaded and count on the bullet to do its job. Safe and effective regardless of how or what you’re hunting.

We know what’s important when things get serious and we never leave anything to chance. The nature of Scandinavian hunting varies from the beech wood forests of Skåne to open cultivated lands with wild boar, red and roe deer, to pure taiga and tundra with moose, bear and game birds.

The span is huge, when it comes to surroundings, weather and hunting conditions.

We always consider this when we work on development so that we can create cartridges that you can always count on.
Chevalier – hunting apparel for the 21st century

Forget the wind, rain and the cold and enjoy hunting instead. For more than 50 years, we have tested and developed clothing for hunting and rugged outdoor life. No matter what your standards are, we have what you’re looking for.

More info: www.chevalier.se

The Iron Horse – this “thoroughbred” from Värmland has the strength and agility needed for retrieving game.

The area where the shot hit its mark could be far away from the nearest road. This usually means a lot of hard work in dense forest or waterlogged bogs. With the Iron Horse, you can get around everywhere, even with two moose at the same time. Easy to maneuver – only one person needs to retrieve. Everyone else can take a coffee break!

Read more at: www.lennartsfors.com

HUNTING IN RUSSIA WITH NORMA

In Russia there are great challenges and a fantastic variety of species to be had. Huge maral deer, and the Marco Polo argali, the world’s most magnificent mountain sheep with a trophy as hard to come by as it is coveted.

Russian wild boar in certain areas can reach an impressive size and Siberian roebuck make our largest European roebucks look like kids.

RUSSIA – A BEAR HUNTER’S PARADISE

From Moscow to the Ural region, you can find the European brown bear and they can be quite large. For those who want to continue the long journey eastward to Kamchatka and real adventure, the world’s biggest brown bears are waiting. Weighing up to 600 kg and measuring nearly one and a half meters up to the shoulders, it is one of the world’s most fantastic predators.

Your best hunting partner there is a gun with a caliber of at least .308 or .30-06 with cartridges from Norma.
Besides Oryx, Norma manufactures a line of other hunting bullets for a variety of uses. All of them have been developed with the help of hunters from around the world. Norma works together with several of the world’s most renowned manufacturers of hunting ammunition, which makes it possible for us to offer a wide range of hunting cartridges that meet most needs. You can see other hunting bullets on page 11.

**A BULLET’S PERFORMANCE WHEN IT HITS GAME DEPENDS ON SEVERAL FACTORS**

The most important are striking velocity and the resistance the bullet meets when it makes a hit.

A general rule under normal circumstances is to use easily expandable bullets of moderate to low velocity calibers, and solid nose or bonded bullets of high velocity or magnum calibers.

If shooting distances are often long, however, and you use a magnum caliber to get a flat trajectory, you may need to use a bullet that expands easily to achieve good expansion at the lowest striking velocities, as may be the case at long distances.

If you often hunt game that is difficult to take down from short or moderate shooting distances, it may be wise to use thick jacketed and bonded bullets with low velocity calibers.

There can be extreme variations in hunting conditions throughout a single day, which is why it is impossible to make a bullet that is optimal for every hunting situation.

**Norma Oryx**

Oryx is a bonded all-around bullet that can withstand extreme deformation without separation of the jacket from the lead core. The specially designed forward portion of the jacket lets the Oryx bullet expand rapidly to more than twice its diameter. Even when heavy bone is hit, the bullet holds together and seldom loses more than 10% of its original weight.

A large frontal surface makes for rapid energy delivery and the bullet’s minimal weight loss allows deep penetration and a broad, permanent wound channel that quickly downs the animal.

**Norma Vulkan**

The Vulkan bullet does not have the traditional lead tip.

Instead, the forward portion of the jacket is inverted around the lead core to prevent deformation no matter how the bullet is treated.

The forward portion of the jacket wall is thin which allows rapid expansion and high energy delivery.

For high velocity calibers, Vulkan has an extra lead lock to prevent jacket/core separation.

**Norma Alaska**

The Alaska bullet is a tried and true, semi round nose, traditional soft point bullet with a gilding metal jacket.

It is best suited for moderate to low velocity calibers for slow and even expansion. The 6.5 mm Alaska bullet, often used in slightly higher velocity areas, is equipped with an extra lead lock.

**Norma Plastic Point**

The Plastic Point bullet is designed for high energy delivery and good penetration.

The lead core is somewhat set back into the jacket and the nose is equipped with a plastic tip. This eliminates the problem of tip deformation in the magazine due to recoil or when quickly reloading.

The forward portion of the jacket has splitting zones to guarantee rapid expansion and the strongly reinforced base ensures good penetration.

---

**Available in the following calibers:**

**Norma Oryx**

- .243 Win.
- .270 Win.
- .270 WSM
- 6,5x55
- 7x65 R
- 7x64
- .280 Rem.
- 7x65 R
- 7mm Rem. Mag.
- .308 Win.
- .30-06
- .300 WSM
- .300 Win. Mag.
- .300 Win.
- .30-06
- .300 WSM
- .300 Win. Mag.
- 9,3x57
- 9,3x62
- 9,3x74 R
- 8x57 R
- 8x57 JS
- 8x57 R
- 7 mm Rem. Mag.
- .30-06
- 8x57 JS
- 8x57 JS
- 9.3x62
- 9.3x74 R
- 9.3x74 R

**Norma Vulkan**

- 243 Win.
- 270 Win.
- 270 WSM
- 7x65 R
- 7x64
- .280 Rem.
- 7x65 R
- 7mm Rem. Mag.
- .308 Win.
- .30-06
- .300 Win. Mag.
- 9,3x62
- 9,3x74 R

**Norma Alaska**

- .300 Win. Mag.
- 7x65 R
- 7x64
- .280 Rem.
- 7x65 R
- 7mm Rem. Mag.
- .308 Win.
- .30-06
- .300 Win. Mag.
- 9.3x62
- 9.3x74 R

**Norma Plastic Point**

- 6,5 Jap.
- 6,5x55
- 6,5 Carcano
- 6,5x55
- 7x65 R
- 7x64
- 7mm Rem. Mag.
- .308 Win.
- .30-06
- .300 Win. Mag.
- 9.3x62
- 9.3x74 R

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10 – NORMA PRECISION
Norma Soft Point
The Soft Point is a conventional half-jacketed bullet primarily intended for small to medium sized game.
The bullet opens quickly, and at high velocities it is suitable for smaller game where immediate shooting results are desirable.
It is also the right choice to use on smaller game at lower velocities.

Norma Full Metal Jacket
The Full Metal Jacket is a target bullet that is also excellent for bird and pelt hunting.
The semi-spliter tip is very effective on small game.

Available in the following calibers:
- .222 Rem.
- .223 Rem.
- .220 Swift
- 5,6x52 R
- .270 Win.
- .30-06
- .300 WSM
- .300 Win. Mag.
- .338 Win. Mag.
- 8x57 JRS
- 8x57 JS
- 9,3x57
- 9,3x62

Barnes Solid
Barnes Solid is a solid copper/zinc alloy bullet.
It is designed for hunting large, tough game that requires high penetration power.
The bullet’s shape and solid construction keep it on course, which prevents it from tipping if it meets tough resistance on impact.

Available in the following calibers:
- .270 WSM
- 7 mm Rem. Mag.
- .300 WSM
- .300 Win. Mag.
- .300 Win. Mag.
- .338 Win. Mag.

Barnes Triple Shock
A new hollow point bullet from Barnes made from solid copper.
The bullet has grooved rings that reduce pressure and increase muzzle velocity.
The all-metal construction results in maximum weight retention and deep penetration.

Available in the following calibers:
- .270 WSM
- 7 mm Rem. Mag.
- .300 Win. Mag.
- .300 WSM

Swift Scirocco
The Swift Scirocco is a polymer tipped, bonded bullet with a boat tail base and very thick jacket.
The polymer tip and design of the jacket’s forward portion allow early expansion.
Bonding and a tapered shape designed to provide low aerodynamic drag make this bullet suitable for high velocity calibers.

Available in the following calibers:
- .308 Win.
- .30-06
- .300 Win. Mag.

Swift A-Frame
The A-Frame is a thick jacketed, bonded bullet with a solid portion in the middle.
The construction guarantees high weight retention and deep penetration.
It is very suitable for tough and hard to penetrate game and high velocity calibers.

Available in the following calibers:
- .308 Win.
- .30-06
- .300 Win. Mag.

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- .308 Win.
- .30-06
- .300 Win. Mag.
Hunting on the Continent is filled with traditions and rituals that can seem foreign to a Scandinavian hunter at first glance.

Where space has been limited for both game and people for a long time, it follows naturally that the original hunt to provide food on the table has evolved into a specific means of cultural expression that is surrounded by traditions.

**Uphold Hunting**

There is really only one way to uphold hunting as a phenomenon in a modern society, and that is by maintaining the view that game and hunting are resources that provide harmony for people in an ever more confusing and stressful cyber world that we are not made for.

From time immemorial, hunting has been one of the foundations for the progress and development of humanity. We also know that European hunting cultures respected and honored game animals since they were directly dependent on them for their own survival.

That’s no longer the case today, which is all the more reason to avail ourselves of hunting traditions and respect game by improving ourselves as hunters.
HUNTING IN THE HEART OF EUROPE

Where the mighty Danube flows through the lower Hungarian plains in the middle of the Carpathian basin, lies Gemenc.

At the western bank of the river is the largest area of connected flood-plains in Europe that often floods at high tide.

The fertile land and the marshlands of the low-lying areas with a rich variety of species, is about as close to a hunting paradise as you can get.

The biotope is ideal for red deer and wild boar and it is no coincidence that Gemenc has one of the world’s finest stocks of antlered game.

More information: www.gemenrct.hu
Hunting is a timeless oasis in a technological world. Progress can involve high performance technical innovations as well as the revival of tried and true traditional products. This is the charm and source of inspiration in our work.

**THREE NEW CALIBERS IN NORMA’S PRODUCT LINE**

We have chosen two flat shooting and hard hitting modern cartridges and an ageless big game classic.

- **Caliber .270 WSM** NEW!
  A short magnum cartridge that combines a flat trajectory with excellent shooting properties.
  Loaded with: Oryx, Nosler BST and Barnes Triple Shock.

- **Caliber 7 mm-08 Rem.** NEW!
  A necked down version of .308 Win. Can be used in lightweight guns with short receivers.
  Loaded with: Nosler BST.

- **Caliber .470 Nitro Express** NEW!
  Classic big game cartridge introduced in 1907 by Joseph Lang. A powerful cartridge for really big game.
  Loaded with: Woodleigh soft nose and full metal jacket.
  Refer to the ballistics pages to see other new additions to the product line.
SURE-FIRE SUPPORT!
A well-placed shot is more important than anything else to conclude a hunt successfully. Even the simplest support for your firearm or body makes shooting considerably easier and you come off the mark sooner.

A lot of major preparation is not usually necessary. It only takes a few seconds to cut a shooting stick that is very effective for firing in standing or sitting positions.

A good rule is to fire from the lowest possible position. If you can sit down, then sit and shoot. If you can lie down, lie down and shoot! With a little foresight, you can usually find some natural support whether you’re stationed at a post or on the move.

SAVE THAT FIRST SHOT!
You may have been waiting for hours in the cold and rain and then suddenly everything happens in just a few seconds. The adrenalin makes your pulse race. But do you have to be in a hurry?

You’ve practiced properly, you’re sighted-in, and you can quickly come up with good support. Then you can take it easy and wait for the right moment to fire that perfect stress-free shot.

Nissan X-TRAIL – a new hunting leader
Wild. Crazy. Sensible and enjoyable with impressive power. But also considerate and versatile. A dependable 4x4 with optimal grip. Ride on any roads you like – it’s just as easy to drive on a main road as on the natural forest tracks to your post or the pond. Your new hunting leader? Why not?

More info: www.nissan.se

The reason some hunters get off the mark sooner and safer depends on two things.

They target shoot often and have learned to improvise to find support quickly for their firearm when necessary. A little foresight is all that’s necessary to turn a difficult shot into a simple and sportsmanlike one.

Here are some examples of how you can make the best of a situation, depending on the circumstances.
The typical Scandinavian Capercaillie is a challenge for every bird hunter. They are masters at hiding in the densest areas and cawing at the dogs during the autumn hunt.

The Capercaillie is a difficult bird to hunt during the winter hunting season. Your shooting distances might be quite long and winter weather makes the shooting more difficult. Hunting for this bird is very strenuous, so you can not leave anything to chance.

A TRUE HUNTING CARTRIDGE

You can rely on Norma Jaktmatch. We have developed it into a true hunting cartridge for birds and small game that can be shot with a FMJ.

Norma’s Jaktmatch cartridges have very high accuracy and a bullet designed for safe and effective shooting results. When the opportunity comes, it is you, your ammunition and your gun that will decide the final outcome.
**SIGHT-IN AT THE RIGHT DISTANCE**

Judging distances is difficult, so you should sight-in your gun so that it hits 1-2 inches high at 100 yards.

Exactly how high the gun should hit depends on the caliber and bullet weight you use and from which direction you want the gun to hit the bullseye.

If you want to aim dead center from all possible hunting distances, you cannot have too much hold-over if you are hunting smaller game.

Go to [www.norma.cc](http://www.norma.cc) and type in your figures in the ballistics program. You can easily see the maximum acceptable shooting distance at that hold-over. Sight-in at several different distances so you know what will happen in a real situation!

The example in the picture below is for a 150 grains FMJ of caliber .30-06.

---

**www.norma.cc**

There is an advanced ballistics program where you can find out what your trajectory will look like in a real situation using different combinations of bullet weights and velocities. At the click of a button, you can directly compare the trajectories of the various types of factory loaded ammunition bullets.

**SEE HOLD-OVER IMMEDIATELY**

In the program, you can easily enter your own information on bullet weight, ballistic coefficient, muzzle velocity and the line of sight height. Then you can adjust the zero range and immediately see the hold-over at each distance before the bullet hits dead on. Or how low it will hit at the chosen zero range.

You can also see what velocity and energy the bullet has at distances up to 600 yards. Wind drift is greater than you think even at moderate shooting distances. You can see how the bullet is affected by different wind speeds and directions, which is valuable to know when you are going to do a thorough sight-in of your gun.

On our web pages, you’ll also find information about our products, loading data and ballistic coefficients for various bullets, how you can load your own cartridges and much more.
Target ammunition should have the same quality as your hunting cartridges. Many hunters also use Jaktmatch to hunt birds and small game so we have no reason to distinguish between hunting and target cartridges.

Practicing shooting on a regular basis is not only a way to be a responsible hunter, it is also a good-natured way to have fun and socialize with hunting friends and other like-minded people. Norma’s sight-in targets are perfect for this. They are available at your firearms dealer or from our web site.

What’s important is not how you practice, but that you do it regularly. Ideally, you should use the gun you hunt with and then it is important that your target and hunting ammunition are consistent (especially when practicing with moving targets). You need to lead in the same manner and accuracy should be just as good so you get a true idea of your ability.

All components in the Jaktmatch cartridges are the highest quality. The fired cases provide the reloader with a top quality product to reload.

The Jaktmatch serie has added three new calibers: .270 Win., .270 WSM and .300 WSM.
SIGHT-IN WITH HUNTING AMMUNITION!

Always do a thorough sight-in with the ammunition you intend to use before you go hunting.

The differences in ballistic coefficient between different bullet types of the same weight and caliber can be quite large depending on the bullet's design.

That affects the point of impact, so never mix cartridges with different bullets even if the weight and velocity are identical.

A good way to check your sighting-in is to use a variant of the Norwegian shooting test.

Shoot now and then, using hunting ammunition and support, at a game silhouette from different distances.

This is partly to see if the point of impact corresponds to how you aim at an animal and partly to see if you have sufficient ability.

Norwegian range test

To pass the annual, compulsory, Norwegian shooting test for Class 1 large game, the shooter must place five shots of five, using hunting ammunition, within 12 inch of the animal figure target area.

Before taking the test, you must first shoot 30 registered practice shots with a weapon and ammunition of your choice.

The shooting distance is 110 yds and you can choose your shooting position. Support such as a hunting stick or pillow under the gun is not allowed.

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**NEW!**

Product no. 20157130

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<td>200 gr</td>
<td>2495</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2495</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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**NEW!**

Product no. 20167560

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2657</td>
<td>0.0</td>
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</tr>
</tbody>
</table>

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**NEW!**

Product no. 20167530

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2495</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2495</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2495</td>
<td>0.0</td>
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**NEW!**

Product no. 20175450

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>3067</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>3067</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>3067</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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**NEW!**

Product no. 20180900

<table>
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<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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**NEW!**

Product no. 20185100

<table>
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<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2657</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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**NEW!**

Product no. 20193600

<table>
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<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2215</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2215</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2215</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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**NEW!**

Product no. 20193180

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>2510</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>2510</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>2510</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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**NEW!**

Product no. 20156120

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>1066</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>1066</td>
<td>0.0</td>
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<td>0.0</td>
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<tr>
<td>250 gr</td>
<td>1066</td>
<td>0.0</td>
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<td>0.0</td>
</tr>
</tbody>
</table>

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**NEW!**

Product no. 20156120

<table>
<thead>
<tr>
<th>Weight/g</th>
<th>Velocity ft per second</th>
<th>Zero cal. 100 yards</th>
<th>Zero cal. 150 yards</th>
<th>Zero cal. 200 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 gr</td>
<td>1086</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>200 gr</td>
<td>1086</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>250 gr</td>
<td>1086</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
Africa is more than just “the big five”. There are also countless species of antelopes and gazelles, from the smallest to the largest. Many of them are difficult to drop in relation to their body size.

Hunting in mountainous terrain, semi-deserts or on the savanna seldom allows for any easy shots from short distances. Hunting in typical bush also places its special demands on both hunter and equipment. Norma’s line has everything you need for a successful hunt. Flat-shooting magnum cartridges loaded with bullets designed to give you a margin when it comes to muzzle energy and penetration ability.

You’ll find everything from Barnes Solid bullets for the truly big game to the bonded Swift A-Frame with a reinforced jacket and partition for the toughest antelopes or bull buffalo.

Jan-Olof Swanteson, Sweden, with a kudu shot with Norma .375 H&H.
Leading gun manufacturers who chose Norma!

Several of the world’s leading gun manufacturers use Norma as reference ammunition to check and regulate their firearms.

Norma’s OEM customers

For many years, Norma has manufactured cases for a large number of ammunition makers around the world.

TOUGH ENOUGH
for the toughest conditions

The R 93 Professional symbolises the Blaser philosophy: a harmonious design offering unlimited practical suitability.

- One-piece dark green synthetic stock, shatter-proof and thermo-stable even under extreme temperatures
- Ergonomically optimised pistol grip
- Elastic inserts in the pistol grip and the forearm area ensure secure handling even in wet weather
- Pistol grip inserts with palm swell in the right-handed or left-handed version
- 1cm rubber gunstock cap; stock length 36.5 cm
- 2 cm and 3cm rubber gunstock caps are available as elongation options

R 93 Professional with extra accessories

Blaser Jagdwaffen GmbH
Ziegelstadel 1 · 88316 Isny, Germany
www.blaser.de · info@blaser.de
### BALLISTIC DATA

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Weight per grain</th>
<th>Weight per grain</th>
<th>Bullet type</th>
<th>Weight per grain</th>
<th>Weight per grain</th>
</tr>
</thead>
<tbody>
<tr>
<td>.222 Rem.</td>
<td>5.8 g/90 gr</td>
<td>5.8 g/90 gr</td>
<td>6x70 R</td>
<td>6.5 g/100 gr</td>
<td>6.5 g/100 gr</td>
</tr>
<tr>
<td>6.5 Jap.</td>
<td>3.2 g/50 gr</td>
<td>3.2 g/50 gr</td>
<td>6.5 Carc.</td>
<td>3.4 g/53 gr</td>
<td>3.4 g/53 gr</td>
</tr>
<tr>
<td>5.6x52 R</td>
<td>4.6 g/71 gr</td>
<td>4.6 g/71 gr</td>
<td>.220 Swift</td>
<td>5.8 g/70 gr</td>
<td>5.8 g/70 gr</td>
</tr>
<tr>
<td>.223 Rem.</td>
<td>6.5x55</td>
<td>6.5x55</td>
<td>.223-250 Rem.</td>
<td>5.8 g/70 gr</td>
<td>5.8 g/70 gr</td>
</tr>
<tr>
<td>.220 Swift</td>
<td>3.5 g/53 gr</td>
<td>3.5 g/53 gr</td>
<td>.243 Win.</td>
<td>6.5 g/100 gr</td>
<td>6.5 g/100 gr</td>
</tr>
<tr>
<td>6x70 R</td>
<td>5.6 g/55 gr</td>
<td>5.6 g/55 gr</td>
<td>6.5 Jap.</td>
<td>3.4 g/57 gr</td>
<td>3.4 g/57 gr</td>
</tr>
<tr>
<td>.222 Rem.</td>
<td>3.2 g/50 gr</td>
<td>3.2 g/50 gr</td>
<td>6.5 Carc.</td>
<td>5.8 g/100 gr</td>
<td>5.8 g/100 gr</td>
</tr>
<tr>
<td>.223 Rem.</td>
<td>5.6 g/55 gr</td>
<td>5.6 g/55 gr</td>
<td>.220 Swift</td>
<td>4.6 g/71 gr</td>
<td>4.6 g/71 gr</td>
</tr>
</tbody>
</table>

### FACTS ABOUT THE BALLISTIC DATA

The velocity and energy data for Norma ammunitions is based on the use of a 24 inch barrel. If your barrel length is longer or shorter, then use the 20-25 fps/inch rule of thumb. Longer barrels will have higher velocity by this amount, shorter barrels, less by the same. Due to variations in the barrels material, length, wear, measurements etc., stated velocities should only be used as guidelines. We recommend that you always sight-in your gun when changing type of ammunition.

---

**NOTE:**

- Velocity figures are given at 50 yards.
- Energy in foot pounds at this range.
- All velocities in feet per second.
- All energies in foot pounds.
- All ranges in yards.
- All weights in grams and grains.
- Full jacket means full jacketed by this amount, soft point, less by this amount.
- Due to variations in the barrels material, length, wear, measurements etc., stated velocities should only be used as guidelines.
- We recommend that you always sight-in your gun when changing type of ammunition.
### BALLISTIC DATA

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.204 Ruger</td>
<td>2876 2696 2426 2152 1875</td>
<td>2611 2343 2076 1809 1542</td>
<td>2364 2096 1828 1560 1300</td>
<td>2108 1840 1582 1324 1066</td>
<td>1.0 0.5 0.1</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**.270 Win.**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**.270 WSM**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 WSM</td>
<td>2801 2633 2465 2201 1937</td>
<td>2587 2320 2054 1788 1522</td>
<td>2257 1991 1725 1459 1193</td>
<td>1984 1718 1452 1186 0920</td>
<td>1.0 0.7 0.4</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**7x57 R**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**7x57**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**7 mm-08 Rem.**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>

**7x65 R**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
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</table>

**.280 Rem.**

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Velocity foot per second</th>
<th>Energy foot pounds</th>
<th>Zero range</th>
<th>Weight of projectile above line of sight if sighted 100 yards</th>
<th>Wind drift in inches for a 1,000 yard wind</th>
<th>Norma Precision – 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>.270 Win.</td>
<td>2847 2675 2403 2131 1861</td>
<td>2603 2336 2069 1803 1537</td>
<td>2355 2088 1821 1553 1297</td>
<td>2080 1813 1545 1277 1021</td>
<td>0.7 0.5 0.3</td>
<td>2.7 1.5 0.6</td>
</tr>
</tbody>
</table>
### BALLISTIC DATA

<table>
<thead>
<tr>
<th>Bullet</th>
<th>Type</th>
<th>Weight (g)</th>
<th>Grain</th>
<th>Coefficient</th>
<th>Speed (fps)</th>
<th>Energy (ft-lb)</th>
<th>Zero (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>.308 Win.</td>
<td>Nosler Accubond</td>
<td>170.53</td>
<td>170.47</td>
<td>0.5</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
<tr>
<td>.308 Win.</td>
<td>Barnes Triple-Shock</td>
<td>170.69</td>
<td>170.62</td>
<td>0.7</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
<tr>
<td>7.62 Russian</td>
<td>Swiss</td>
<td>170.53</td>
<td>170.47</td>
<td>0.5</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
<tr>
<td>7.5x55</td>
<td></td>
<td>170.53</td>
<td>170.47</td>
<td>0.5</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
<tr>
<td>7 mm Rem. Mag.</td>
<td></td>
<td>170.53</td>
<td>170.47</td>
<td>0.5</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
<tr>
<td>7.64</td>
<td></td>
<td>170.53</td>
<td>170.47</td>
<td>0.5</td>
<td>2087</td>
<td>2276</td>
<td>1819</td>
</tr>
</tbody>
</table>

**Wind drift in inches for a 50 mph crosswind:**
- 2 at 200 yards
- 2 at 300 yards
- 2 at 500 yards
## BALLISTIC DATA

### .30-06

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Weight</th>
<th>Velocity</th>
<th>Energy</th>
<th>Zero</th>
<th>Wind drift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nosler BST</td>
<td>9.7 g/150 gr</td>
<td>2936</td>
<td>2453</td>
<td>2085</td>
<td>1762</td>
</tr>
<tr>
<td>Nosler Accubond</td>
<td>11.7 g/180 gr</td>
<td>2674</td>
<td>2499</td>
<td>2331</td>
<td>2169</td>
</tr>
<tr>
<td>Swift A-Frame</td>
<td>11.7 g/180 gr</td>
<td>2700</td>
<td>2478</td>
<td>2267</td>
<td>2067</td>
</tr>
<tr>
<td>Alaska</td>
<td>11.7 g/180 gr</td>
<td>2700</td>
<td>2359</td>
<td>2044</td>
<td>1755</td>
</tr>
<tr>
<td>Nosler BST</td>
<td>0.5</td>
<td>0.4</td>
<td>0.2</td>
<td>-0.2</td>
<td>-2.1</td>
</tr>
<tr>
<td>Nosler Accubond</td>
<td>11.7 g/180 gr</td>
<td>0.5</td>
<td>0.3</td>
<td>0.1</td>
<td>-1.3</td>
</tr>
<tr>
<td>Swift A-Frame</td>
<td>11.7 g/180 gr</td>
<td>0.5</td>
<td>0.3</td>
<td>0.1</td>
<td>-2.4</td>
</tr>
<tr>
<td>Alaska</td>
<td>11.7 g/180 gr</td>
<td>0.5</td>
<td>0.1</td>
<td>0.1</td>
<td>-1.3</td>
</tr>
</tbody>
</table>

### .308 WSM

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Weight</th>
<th>Velocity</th>
<th>Energy</th>
<th>Zero</th>
<th>Wind drift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nosler BST</td>
<td>9.7 g/150 gr</td>
<td>3215</td>
<td>2985</td>
<td>2767</td>
<td>2560</td>
</tr>
<tr>
<td>Barnes Triple-Shock</td>
<td>9.7 g/150 gr</td>
<td>3215</td>
<td>2892</td>
<td>2671</td>
<td>2550</td>
</tr>
<tr>
<td>Dry</td>
<td>11.7 g/180 gr</td>
<td>3294</td>
<td>2542</td>
<td>2181</td>
<td>1850</td>
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### .308 Norma Mag.

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Weight</th>
<th>Velocity</th>
<th>Energy</th>
<th>Zero</th>
<th>Wind drift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nosler BST</td>
<td>9.7 g/150 gr</td>
<td>3018</td>
<td>2758</td>
<td>2513</td>
<td>2281</td>
</tr>
</tbody>
</table>

### .300 Win. Mag.

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Weight</th>
<th>Velocity</th>
<th>Energy</th>
<th>Zero</th>
<th>Wind drift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nosler BST</td>
<td>9.7 g/150 gr</td>
<td>3018</td>
<td>2758</td>
<td>2513</td>
<td>2281</td>
</tr>
</tbody>
</table>

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**Note:** For sights 1.6 inch above bore and 10 m.p.h. cross wind.
### BALLISTIC DATA

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Ball Velocity feet per second</th>
<th>Energy foot pounds</th>
<th>Zero range yards</th>
<th>Height of trajectory above line of sight if sighted at 100 yards</th>
<th>Wind drift in inches for a 10 m.p.h cross wind.</th>
<th>Product number</th>
</tr>
</thead>
<tbody>
<tr>
<td>.300 Win. Mag.</td>
<td>2017347: 11.7 g/180 gr</td>
<td>1900</td>
<td>100</td>
<td>2600</td>
<td>50</td>
<td>100</td>
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<tr>
<td>.77 Jap.</td>
<td>2017705: 11.3 g/174 gr</td>
<td>1900</td>
<td>100</td>
<td>2600</td>
<td>50</td>
<td>100</td>
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<tr>
<td>8x57 JRS</td>
<td>2018010: 12.7 g/196 gr</td>
<td>1900</td>
<td>100</td>
<td>2600</td>
<td>50</td>
<td>100</td>
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<tr>
<td>8x57 JS</td>
<td>2018001: 12.7 g/196 gr</td>
<td>1900</td>
<td>100</td>
<td>2600</td>
<td>50</td>
<td>100</td>
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<tr>
<td>.338 Win. Mag.</td>
<td>2018511: 14.9 g/230 gr</td>
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<td>2600</td>
<td>50</td>
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<tr>
<td>.358 Norma Mag.</td>
<td>2019007: 16.2 g/250 gr</td>
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<td>9.3x57</td>
<td>2019309: 15.9 g/273 gr</td>
<td>1900</td>
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<td>2600</td>
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<td>100</td>
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<td>9.3x62</td>
<td>2019317: 15.9 g/273 gr</td>
<td>1900</td>
<td>100</td>
<td>2600</td>
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### BALLISTIC DATA

#### 9.3x62

<table>
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<th>Ball velocity, ft per second</th>
<th>Energy, foot pounds</th>
<th>Zero range, yards</th>
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<tbody>
<tr>
<td>Oryx 50</td>
<td>9,3x74 R</td>
<td>15,0</td>
<td>0.1</td>
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<tr>
<td>Nitro Express</td>
<td>9,3x74 R</td>
<td>45,8</td>
<td>0.1</td>
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#### .375 H&H Mag.

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Ball velocity, ft per second</th>
<th>Energy, foot pounds</th>
<th>Zero range, yards</th>
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<tbody>
<tr>
<td>Oryx 50</td>
<td>.375 H&amp;H Mag.</td>
<td>27</td>
<td>0.1</td>
</tr>
<tr>
<td>Nitro Express</td>
<td>.375 H&amp;H Mag.</td>
<td>45,8</td>
<td>0.1</td>
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#### .416 Rigby

<table>
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<tr>
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<tbody>
<tr>
<td>Oryx 50</td>
<td>.416 Rigby</td>
<td>9,3x62</td>
<td>15,0</td>
</tr>
<tr>
<td>Nitro Express</td>
<td>.416 Rigby</td>
<td>45,8</td>
<td>0.1</td>
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#### .458 Win. Mag.

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Ball velocity, ft per second</th>
<th>Energy, foot pounds</th>
<th>Zero range, yards</th>
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</thead>
<tbody>
<tr>
<td>Oryx 50</td>
<td>.458 Win. Mag.</td>
<td>9,3x62</td>
<td>15,0</td>
</tr>
<tr>
<td>Nitro Express</td>
<td>.458 Win. Mag.</td>
<td>45,8</td>
<td>0.1</td>
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#### .470 Nitro Express

<table>
<thead>
<tr>
<th>Bullet type</th>
<th>Ball velocity, ft per second</th>
<th>Energy, foot pounds</th>
<th>Zero range, yards</th>
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</thead>
<tbody>
<tr>
<td>Oryx 50</td>
<td>.470 Nitro Express</td>
<td>9,3x62</td>
<td>15,0</td>
</tr>
<tr>
<td>Nitro Express</td>
<td>.470 Nitro Express</td>
<td>45,8</td>
<td>0.1</td>
</tr>
</tbody>
</table>

### NORMA PRECISION - 27
A continent that stretches from Arctic expanses in the north to subtropical climates at the Tropic of Cancer in the south, has a fauna that includes almost everything a hunter could wish for.

There is space for most everything here, from tundra, the conifer belt, and majestic mountain chains to the prairie and ever green marshes. Hunting practices are therefore multi-faceted, and there are great differences when it comes to what firearms and ammunition are needed.

That is why Norma meets the customers demand for quality and flexibility in their ammunition. We hold a strong position in the world, for those reasons.

Throughout the years, we have also had the advantage of an intimate and fruitful partnership with well-known firearm manufacturers like Weatherby and bullet manufacturer Nosler.

The result of this is something that benefits hunters all across the world.

Swarovski scope
– for demanding hunters

Built to be used where there are demands for accuracy, optical brilliance, and durability.

At dusk or in strong light – you always get a clear and richly contrasted view all the way out to the edge of your field of vision.

Rectangular adjustment area and patented adjustment mechanism that can withstand all magnum calibers makes for precise and easy sighting-in.

Guaranteed 100% waterproof even if lighting unit or turret caps are removed.

More info: www.swarovskioptik.com
BUFFALO HUNTING IN NEBRASKA

As I crept in the snow up that hill in Nebraska with Bob, Jay and Bernhard, well aware that the buffalo we were after lay just over the hilltop, I wondered to myself in a moment of clarity, ‘What are you doing here, you hopeless amateur?’. My American friends from Nosler and the No. 84 Ranch had told me to empty the magazine when I took the shot.

We worked our way over the top of the hill and I lay there in the snow with my .340 Weatherby Mark 5, with my feet high and my head low. I aimed at the buffalo, 50 yards further down. When it spotted us, I fired off my four rounds and the great animal fell. At the same time, Bernhard from Blaser fired his R93 and buffalo number two met the same fate as mine. Nosler’s outstanding Accubond bullets had done their job.

At some point during all this, I stood up (unable to recall afterwards just when that was) and had an ugly cut on my forehead and blood running down to my nose. I hadn’t even noticed the shot.

Of course, everyone was overjoyed at my little wound, and I think that long after they’ve forgotten what I shot, they will still remember my bloody face. My only consolation is that it happens to every hunter at some point.

Anyway, I stood up and looked around me in the glistening sunshine. Blue skies, rolling hills with light brown prairie grass sticking up from the snow, and a sweeping view. So beautiful!

It was a privilege to be there at just that moment!

Torbjörn Lindskog

Nik Maxwell, Tauranga, New Zealand.
Handloading and customizing cartridges brings out new sides in many hunters and marksmen.

Just the feeling of being able to tailor your cartridges with the help of specifications and influence the result is a big thing for many people. Shooting is less expensive and you acquire a lot of valuable knowledge.

It’s easy to learn how to handload your own cartridges with the help of specifications worked out by powder and ammunition manufacturers.

THE HEART OF THE CARTRIDGE IS THE CASE

It should be used over and over again, maybe ten times or more before being replaced.

To handle the stress it is exposed upon firing, you can’t scrimp on anything.

Measurements must be perfect with close tolerances, and meticulous control throughout the entire manufacturing process is required to create a perfect product. Norma’s cases are renowned throughout the world for their high and uniform quality. That is one of the reasons many well-known ammunition manufacturers buy Norma cases for their own production.

NORMA BULLETS – A CENTURY OF EXPERIENCE AND DEVELOPMENT

For 100 years, the golden rule at Norma has been precision and quality. Continuous progress stretching from the days of steel-jacketed bullets to today’s precision bullets with gliding metal jackets and bonded cores has given Norma a leading position in the world. The reason for that is simple – thoroughly planned production and tight control over everything from casting to the final product.

EURENCO BOFORS

Alfred Nobel never received any prize for his pioneering inventions. The most important one for hunters and marksmen is without a doubt the smokeless double base powder. A powder made by mixing nitrocellulose with nitroglycerin diluted in ether. At the end of the 1800s, Alfred Nobel purchased the cannon maker, Bofors, and started production of his new revolutionary powder. This made it possible to shoot jacketed, fine caliber bullets at high velocities, something that was previously not technically feasible. Norma has a long and successful tradition with Bofors as its supplier of top quality powder. More info: www.eurenco.com.
NORMA POWDER

NORMA 200 POWDER
Our fastest gunpowder is suitable for smaller calibers such as .222 Rem and .22 Hornet. It can also be used to shoot lightweight, low-velocity bullets in medium calibers such as the .308 Win. 500 g/canister. Prod. # 20932005

NORMA 201 POWDER
Very suitable for calibers with small case volume in relation to the caliber such as .9.3x57 and .45-70. It’s also the right choice for shooting lightweight bullets in medium-sized cases such as .30-06. 500 g/canister. Prod. # 20932015

NORMA 202 POWDER
Specially developed to provide maximum performance in .308 Win. A very useful powder for medium calibers such as .30/30, 9.3x57 and 9.3x74 R. 500 g/canister. Prod. # 20932025

NORMA 203B POWDER
Specifications differ slightly from the previous 203 powder. A slow-burning powder that provides good performance and often quite good accuracy in calibers such as .30-30. 500 g/canister. Prod. # 20932035

NORMA 204 POWDER
A very fast “magnum powder”. Suitable for a number of calibers with relatively large case volume in relation to the caliber. Well-known for many years as a high-performance powder in all magnum calibers. 500 g/canister. Prod. # 20932045

NORMA MRP POWDER
The perfect choice for over-bore calibers such as 6.5-284, 6.5-06 and Weatherby cartridges. 500 g/canister. Prod. # 20932065

NORMA MRP2 POWDER
A vigorous, mid-range powder. Excellent choice for medium-sized cartridges such as 7x64 and .30-06. 500 g/canister. Prod. # 20932195

NEW!

Loading data only at canister.

NORMA’S LOADING MANUAL
Loaded with 425 pages of information and everything you need to know for safe handloading.

In addition to loading data for 73 calibers from the .222 Rem to the .505 Gibbs, you’ll find informative chapters on powder, detonators, and ballistics written by leading experts in the field.

For each caliber, there is information on dimensions according to the CIP standard and a full description of the cartridge’s background and its fields of application. Plus, information on barrel length and correct rate of twist for the cartridge type. Order it from your local hunting store!
Norma has traditionally worked together with successful marksmen. We have created opportunities and developed ammunition with the aim of pushing the sport to the outer limits of human capability.

We have had plenty of success over the years, which we are proud of, but we are not resting on our laurels.

Strict monitoring of every step in the production process and careful balancing of charge and bullet weight yields optimal uniformity in muzzle velocity and provides maximum accuracy.

We continue to be inspired and with a combination of talent, creative thinking and technological innovations, more champions will be made.

Ola Tore Dokken, Norway
World champion Mil. standard Rifle 3x20 Team, Nordic champion and winner of the Norwegian royal trophy (Konge-pokalen) in 2004 with record high points. Shoots with Diamond Line.

Per Sandberg, Sweden
Tied the world record in 2004 with 600 pts. in a 60 shot match, prone. Won European Cup Final in 2003 shooting a half-match. Shot 1180 pts. in whole match while qualifying for EC Final. (World record is 1178 points). Shoots with 6mm Norma BR Diamond Line.
Norma Diamond Line
– for maximum accuracy

Norma’s Diamond Line cartridges are loaded with specially chosen bullets that have a molybdenum disulfide and wax finish.

The black coating reduces friction and you get less barrel wear, more uniform velocity, lower gas pressure and maximum accuracy.

Peltor Pro Tac
Active-volume hearing protection that provides the perfect protection against impulse noises from firing shots or other harmful noise.
You hear only what you want or need to. Pro Tac is designed to be worn with maximum comfort for long periods.
More info: www.peltor.se

6 mm Norma BR
Ten years’ dominance in international rifle shooting actually says everything about the 6 mm Norma BR.
A perfect combination of accuracy, minimal wind drift, and light recoil makes it the natural choice for the big championships.
Moly-coated bullet.

.308 Win. Match
Developed for international rifle shooting for free or standard rifles.
Moly-coated bullet.
Norma’s Match Line for Range and Field

Where medals and championships are won, you’ll always find Norma.

We are leaders in the development of match cartridges and we have decided to continue along that road.

Ballistic Data

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Product name</th>
<th>Product number</th>
<th>Coefficient</th>
<th>Bullet type</th>
<th>Bullet weight</th>
<th>Barrellength</th>
<th>Velocity m/s</th>
<th>Height of trajectory above line of sight</th>
<th>Wind drift in inches for a 10 m.p.h. cross wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm</td>
<td>Norma BR</td>
<td>10160162</td>
<td>.517</td>
<td>Coated hollow point</td>
<td>6.8</td>
<td>26</td>
<td>2789</td>
<td>4.2, 5.0</td>
<td>11.4, 12.1, 13.7, 15.2, 17.4, 20.5, 24.0</td>
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<tr>
<td>6.5x55</td>
<td>Diamond Line Berger</td>
<td># 10165330</td>
<td>.345</td>
<td>Hollow point</td>
<td>6.5</td>
<td>29</td>
<td>2625</td>
<td>5.6, 6.7</td>
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<tr>
<td></td>
<td>Diamond Line Bana</td>
<td># 10165050</td>
<td>.548</td>
<td>Coated hollow point</td>
<td>8.4</td>
<td>26</td>
<td>2723</td>
<td>4.5, 5.3</td>
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<tr>
<td></td>
<td>Diamond Line Fält</td>
<td># 10165050</td>
<td>.548</td>
<td>Coated hollow point</td>
<td>8.4</td>
<td>29</td>
<td>2788</td>
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<tr>
<td></td>
<td>Golden Target</td>
<td># 10165300</td>
<td>.548</td>
<td>Coated hollow point</td>
<td>6.4</td>
<td>29</td>
<td>2986</td>
<td>3.5, 4.2</td>
<td>9.9, 12.1, 14.5, 17.7, 21.0, 25.3, 30.0</td>
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<tr>
<td>6.5x55</td>
<td>Diamond Line Bana</td>
<td># 10165130</td>
<td>.345</td>
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<td>12.1, 13.3, 14.5, 16.7, 19.3, 22.5, 26.0</td>
</tr>
<tr>
<td>300 Win</td>
<td>Diamond Line Sierra</td>
<td># 10176152</td>
<td>.470</td>
<td>Coated hollow point</td>
<td>10.9</td>
<td>26</td>
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</tr>
<tr>
<td>7.5x55</td>
<td>Swiss Match</td>
<td># 10176130*</td>
<td>.470</td>
<td>Coated hollow point</td>
<td>10.9</td>
<td>26</td>
<td>2443</td>
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<td>14.8, 17.1, 20.3, 24.5, 29.0, 34.5, 41.0</td>
</tr>
</tbody>
</table>

6.5x55 Banskytte/Rekrutt
A cartridge used for practice and instruction that offers good performance at a reasonable price. The bullet is uncoated.

6.5x55 Diamond Line Fält
The champion cartridge for field shooting. Optimized for maximum accuracy from long distances. Flat trajectory and high wind drift resistance. Moly-coated bullet to increase barrel lifespan.

6.5x55 Diamond Line Bana
Developed primarily for national match shooting. High muzzle velocity minimizes wind drift and maximizes accuracy. Light recoil and the moly-coated bullet reduce barrel wear.

6.5x55 Golden Target
A cartridge that loads with bullets without moly-coating. Excellent accuracy and a great choice for either field or range shooting.

7.5x55 Swiss Match
Specially developed for the Swiss market’s standard and free rifle shooters. Moly-coated bullet for maximum accuracy and reduced barrel wear.

6,5x55 Golden Target # 10160162
Bermag # 10165330
Diamond Line Bana # 10165050
Diamond Line Fält # 10165050
Golden Target # 10165300
Diamond Line Sierra # 10176152
7.5x55 Swiss Match # 10176130*
**NORMA .22 LONG RIFLE**

Norma Match 1 is a choice cartridge of the highest quality intended for elite marksmen with exacting standards.

Norma Training 2 is an excellent cartridge for practice and for a wide range of activities in rifle sports.

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Caliber .22 LR Match 1</th>
<th>Bullet type</th>
<th>Product-number</th>
<th>Velocity feet/sec</th>
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</thead>
<tbody>
<tr>
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<td>Lead, round nose</td>
<td># 87156130</td>
<td>1066</td>
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<tr>
<td>2.6 g/40 gr</td>
<td>Lead, round nose</td>
<td># 87156140</td>
<td>1066</td>
</tr>
</tbody>
</table>

50 cartridge/boxes

**NORMA PISTOL AND REVOLVER CARTRIDGES**

The 9 mm and .32 S&W pistol cartridges have been developed through close cooperation with the world’s leading pistol shooters.

Norma’s 9 mm security cartridge is loaded with a bullet developed to meet the high demands of performance and accuracy. It is intended primarily for police work and is used in many countries.

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Caliber .32 S&amp;W Long</th>
<th>Bullet type</th>
<th>Product-number</th>
<th>Velocity feet/sec</th>
</tr>
</thead>
<tbody>
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<td>Lead, wc</td>
<td># 37178102</td>
<td>787 758 732 683</td>
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<tr>
<td></td>
<td></td>
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<td>136 126 118 102</td>
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<tr>
<td>9 mm TC Luger</td>
<td>Full jacket</td>
<td># 37190352</td>
<td>1099 1032 980 899</td>
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<td>331 292 263 221</td>
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<tr>
<td>9 mm TC K-pist</td>
<td>Full jacket</td>
<td># 37190360</td>
<td>1280 1170 1086 972</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>449 375 323 259</td>
</tr>
</tbody>
</table>

50 cartridge/boxes

**PROMOTIONAL PRODUCTS**

Sold in retail stores:

1. Cap  Prod. # 66040101
2. T-shirt  Prod. # 66040100 ...... M, L, XL.
3. Vest  Prod. # 66040116 ...... M, L, XL.
4. Denim shirt  Prod. # 66040106 ...... M, L, XL.
5. Pique shirt  Prod. # 66040107 ...... M, L, XL.
6. Knife ............ Prod. # 66040109
7. Bag................. Prod. # 66040102
8. Thermos............ Prod. # 66040108
9. Bullet board ... Prod. # 66040111

9. Norma’s exclusive bullet board displays 102 bullets and 36 cartridges, affixed to a velvet background with a gold colored frame. Size 75x55 cm.