



# THE AMMUNITION COUNTS





# THE *Ammunition* COUNTS

That's why generations of hunters have trusted RWS.

For more than a century, RWS has been making all kinds of rifle ammunition exclusively in Germany, at its plant in Stadeln. The origins go back to the year 1855, when Heinrich Utendoerffer began producing primers in his Nuremberg laboratory. 34 years later, this laboratory was taken over by the "Rheinisch Westfälische Sprengstoff-Actien-Gesellschaft" (RWS), which had been founded in Troisdorf in 1886. RWS was a part of Dynamit Nobel AG from 1931 up to the spring of 2002.

And since then, a wide range of explosive-based products has been manufactured here, now under the control of

RUAG Ammotec GmbH. Shooters who select RWS ammunition profit from those long years of experience and the know-how of our staff – all of them specialists, and a lot of them enthusiastic hunters as well. Not for nothing have RWS rifle cartridges made an unequalled impact around the world, ever since their introduction. Generations of hunters have trusted RWS quality. Because they know: ammunition from RWS fulfills the most exacting requirements and is the guarantee for a perfect hunt.



[www.rws-ammunition.com](http://www.rws-ammunition.com)



# REASSURING

... when you know you can rely on the cartridge.

Hunting is never predictable. Imagine you are in the perfect situation to shoot a big running boar, the cartridge misfires or the bullet does not perform as expected; suddenly you are now in a potentially dangerous situation. Choice of ammunition must not be left to chance, it is essential for hunting success.

For RWS reliability is top priority, which is why there are precise quality control checks after every one of the 100 production steps in the manufacture of a rifle cartridge. A cartridge is only approved for sale after it has met all the criteria relevant to safety and performance. For reliability - RWS.

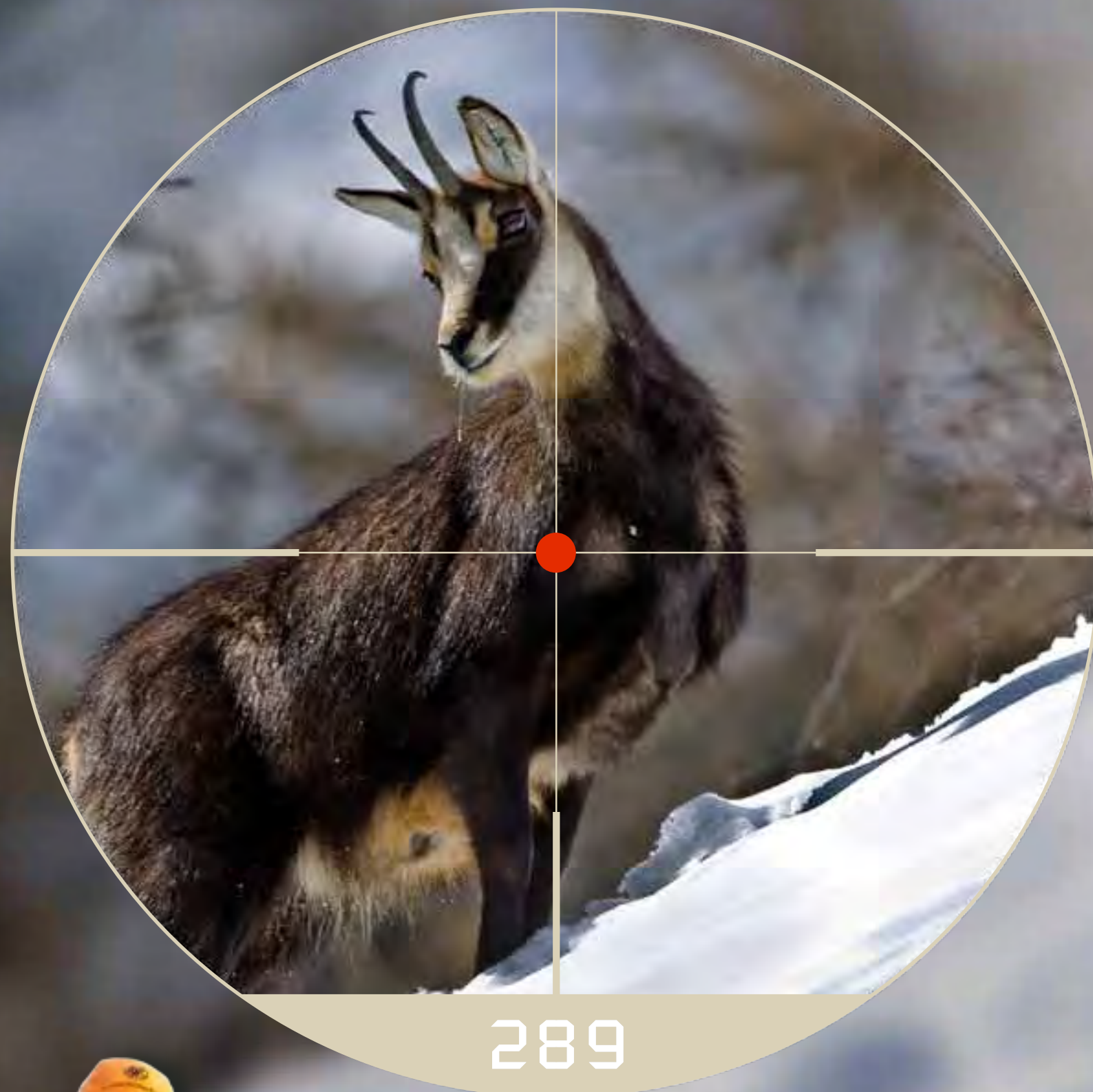


RWS is the only German manufacturer that makes the components for rifle cartridges itself: projectile, case and primer • Made in Germany • More than 100 production steps to the finished rifle cartridge • 14 production steps and 11 quality checks for RWS projectiles • 8 quality checks for RWS cartridge cases • Daily quality assurance by a qualified staff of 35 • Up to 26 manual checks • Laser-supported primer checks • Testing with more than 120 shots during production • 7 final test-shooting series before the production batch is accepted • 2,400 representative weapons available for testing purposes.

**Norbert Cyron (Head of Quality Management at RWS)** – Here in Quality Assurance we check before, during and after production, to ensure that our rifle cartridges meet all our requirements. These are demanding, and we have to make an effort every day to live up to them. But the result is that our cartridges do their job: they are reliable, have a precise trajectory, and the right effect on the game. A consistently high level of quality is reason enough to set the standards very high, even if that means extra effort.







## OUTSTANDING

... at all distances.

It's quite easy to be satisfied with the accuracy of a rifle cartridge at 100m but only a long range shot will prove if you can rely on the accuracy of your ammunition at all distances.

A cartridge that can fulfill all the demands of it is a pre-requisite for successful hunting. A precision cartridge must have all the components matched to each other which is why RWS has the production of cases, primers and bullets under its own control.

For RWS accuracy is essential - at all distances.



**Gunnar Petrikat (Domestic Sales at RWS)** – Precision is a fascinating thing, and I am crazy about it. Especially since I started working for RWS. From then on, it even got worse! OK, so every now and again I'll try a shot with a competing product, but RWS produces the most consistent results. For me, it's part of the pleasure of hunting to know that the shot will be on target.

Every component is checked by in-house firing tests • 35 in-house firing points, including an indoor 500 m range • A daily consumption of up to 10,000 cartridges for testing • Regular checks for gas pressure, chambering capability and accuracy • Precision testing using various barrels and at least 20 shots • Radar-checked trajectory • More than 1,000 special barrels for testing accuracy and gas pressure • Famous gun manufacturers frequently use RWS ammunition to check the accuracy of their products • Trade journalists use RWS ammunition for testing weapons • Numerous European and world championship titles and Olympic victories have been won with RWS ammunition.



# HARMONY

... when the gun and ammunition are in tune.

A valuable gun is worthless without the correct quality ammunition. Every shot subjects the barrel to a certain amount of stress, this can be minimized by selecting the right ammunition.

RWS uses mercury free primers and grades of powder with additives to help preserve the barrel. We also use special coatings on our bullets to keep wear to a minimum and extend the life of the barrel. A high value match for life long successful hunting.

As a matter of course, our 67 loads contain powder additives to reduce bore fouling • 5 different special surfaces are used for RWS projectiles • The non-corrosive RWS SINOXID® primer has been used for more than 90 years • RWS has produced the unique Nato-qualified lead and heavy-metal-free SINTOX® primer for more than 25 years • Systematic material analysis of the case and projectile materials, such as spectrum analysis, hardness and grain size analysis, section micrographs of the structure of layered components, tensile strength tests, surface analysis and adherence tests • 4 laboratory tests before acceptance of raw materials • RWS cases are highly esteemed by reloaders.

**Karl-Heinz Heinlein (Technical Services at RWS)** – In my long active life as a gunsmith I have looked down a lot of barrels. And it has become clear that the powder additives developed for RWS cartridges are really useful. The bores show considerably reduced fouling – and that significantly improves the accuracy! Not only that, but the special projectile materials and coatings ensure that the barrels have a noticeably longer life.



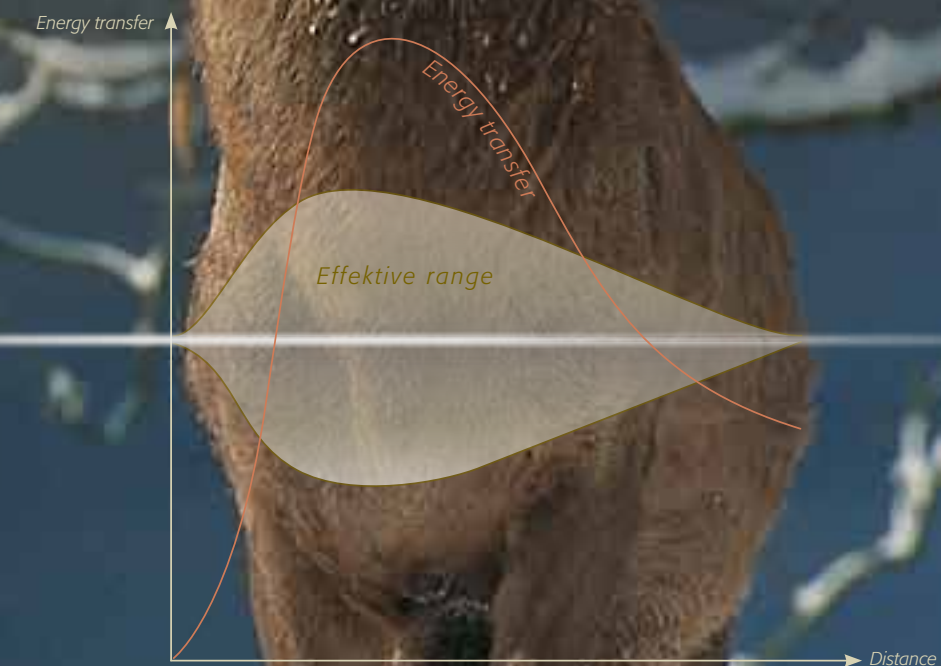


# EFFECTIVE

... instant knock down.

The shot is taken and the game drops on the spot thanks to the finely tuned shock effect of the special bullets from RWS.

All RWS special bullets are designed to give a triple shock effect but with minimal meat damage. Initial shock, penetration shock and exit wound are all features of every special bullet from RWS. For all types of game and at all distances these bullets have an outstanding knock down effect.



The RWS range includes more than 115 different projectiles and 40 different calibers • Calibers range from 5.6 mm to 10.7 mm • More than 40 types of powder • Projectile development based on more than 250,000 test firing reports • 2,500 gelatine blocks used for test firing each year • X-ray photographs used since 1950 for the evaluation of proof tests • RWS test hunting ground for in-the-field analysis of the effectiveness of new developments • Newly developed projectiles are tested on well over 1,000 items of game before production is approved • Up to 50 prototypes before a projectile reaches series production • Projectile energy ranges from 460 to 6450 Joules • Projectile weight ranges from 2.6 g to 19.4 g • Velocities range from 590 to 1150 m/s • Close partnership with the Federation of German Professional Hunters

**Hermann Wolff (General Manager of the Federation of German Professional Hunters)** – The special projectiles from RWS have to be on target, just like any other bullet. If this is the case, then they act reliably and kill properly and humanely. And if a shot is not as perfectly placed as I would wish - something that may happen from time to time in a fast-moving hunt – then my experience is that the special projectiles make all the difference. In general, the game drops after a few meters, which saves a difficult search by my partner and his dog.





# EXCITING

... when innovation enhances the hunt.

Hunting has a history that goes back for thousands of years and RWS has influenced the last 100 years of that history. The performance of RWS rifle cartridges has opened up present day hunting opportunities and tomorrow they will be out in front of today's technology.

The RWS special projectiles have influenced the nature of hunting ever since they were developed and have always contributed to humane hunting. Numerous RWS experts are already working on tomorrow's innovations – evolution marches on ...



1934

Continual development of the H-jacket bullet since its introduction in 1934

2011

RWS special projectiles are continually being optimized • The H-jacket bullet has been redeveloped 7 times since its introduction • In-house developments have produced more than 50 patents in the field of powders and primers • More than 100 patents in the field of projectile and cartridge case development • Proprietary development of the calibers 5.6 x 57 (R), 6.5 x 57 (R), 6.5 x 65 (R), 6. x 68 (R) und 8 x 68S • 6 different types of lead for projectile cores • 4 different materials for projectile jackets • More than 100 primer recipes • More than 95 different cases • Innovation 2008: Super Clean Technology • Innovation 2009: Flash Control Technology • RWS is seen as the most reliable, competent and innovative brand <sup>1</sup> • RWS is the best-known brand of ammunition for hunters <sup>2</sup> • RWS products stand for accuracy, humane hunting, little damage to the meat, and short to zero flight distances <sup>2</sup>.

SOURCES: 1) Forum! Market Research, Germany, France: Analysis of emotional customer attachment, 2007 2) GfK-Studie Germany: Brand & Communication Research, 2004

**Heinz Rieß (R & D Project Manager at RWS)** – When, as a product manager, I look back on the work of my colleagues and predecessors, I can see again and again that we really have achieved a lot. It is fascinating to study the multitude of calibers, cases and projectiles that have resulted in a 3-figure number of patents. This gives one an impetus, and so we are always ready to take up the challenge to develop innovative products.





# *Precision* PERFECTED

Anyone who goes hunting expects the best performance from his ammunition. But only the best ammunition will guarantee a humane and successful hunt. RWS rifle cartridges meet the most demanding requirements for reliability and performance.

This is ensured by a manufacturing process that puts precision first. Cartridge and components are subject to over 100 production steps; final assembly of the cartridge is only approved after all the components have met and passed these stringent controls.

Here too quality assurance is placed first and the load is a combination of components that have been matched together with great care. Conformity with the parameters specified by proof laws has the highest priority during manufacture as well as the high demands of ballistic performance and accuracy that is the hallmark of all RWS ammunition.

Our staff are another quality factor in this high-quality production process. They are often enthusiastic hunters themselves, and their experience is continually fed back into the manufacture of RWS rifle cartridges.



[www.rws-ammunition.com](http://www.rws-ammunition.com)



# PERFECT DOWN TO THE SMALLEST DETAIL

## RWS cartridges

The perfect cartridge is distinguished by the high quality of its components and the fact that they have been optimally matched to one another. RWS cartridges fulfill all aspects of these requirements – from the primer through the case and powder to the projectile. This is guaranteed by our high quality method of making up a load.

First, every case receives the primer that has been perfectly matched to it. Then, the groove between primer and case is sealed with a colored lacquer, so that one can distinguish between heavy and light bullets in cart-

tridges of the same caliber. Powder is added in very fine doses for absolutely consistent ballistics, the bullet is precisely seated and crimped to ensure it is firmly seated. Finally the overall cartridge length is checked to ensure maximum accuracy.

Every one of these steps is accompanied by electronic and visual checks. Before the cartridge is packed, the tests are concluded by using a standard chamber as a gauge to make a precise check on the ability of the round to chamber in rifles of the specific caliber.



## A lot more than just an empty case

The demanding production procedure ensures the recognised high quality standard of RWS cartridge cases is maintained. Brass strip for case production is supplied in reels and only accepted after detailed metallurgical analysis in our laboratory. Brass cups are formed from the strip using stamping pressures of 150 tons and then these are drawn through several processes to form the finished case. The developing cases are repeatedly annealed, pickled and washed and this improves the grain structure of the material which helps the cases withstand the gas pressure with an optimum obturation. It also becomes an 'intelligent' material that expands in response to the increased pressure and then returns to its original condition.

ensure the highest level of dimensional accuracy for the cases. The subsequent 100% visual check is mainly an optical matter – at this stage, any cases that are out of tolerance have long been weeded out.

To check their quality, the finished cases are then subjected to an extreme overload: The sample loads are fired in specially prepared proof barrels that create 10 % excess pressure, with head spaces of 0.2 to 0.4 mm, which would normally not be acceptable. Such head spaces are intended to simulate shot-out guns that may well appear in the real-world market. In addition, they are test fired with 30 % excess pressure in proof barrels that have been manufactured to CIP specifications.

This testing program goes way beyond the legal regu-



The pickling and washing creates the brilliant appearance of RWS cases. The two press operations that form the cartridge base and the primer pocket make the case very hard in this region. The high hardness level ensures that the primer is seated securely and prevents stretching of the primer pocket at high gas pressures. When the shoulder and neck have been formed, the flash hole is created, the rim is turned, and the case is trimmed to length once more. Then the case mouth is annealed for a last time. Every one of these production steps is followed by a manual size check with various gauges, to

lution requirements. Even other manufacturers confirm that we have a no-compromise test methodology that will reliably reveal any potential weaknesses in the cartridge case. After all, rifle cartridge cases must withstand extremely high gas pressures – up to 7,000 bar – and are a kind of life insurance for the shooter. We have developed the most demanding test in the business – so that you are always on the safe side. A cartridge case that passes through our quality control is something special – **it's from RWS.**

**Peter Eismann (Hunter and Case Production Foreman at RWS)** – RWS cases mean safety and quality. That may sound like a cliché, but we really work hard at it. It starts in our materials testing laboratory, which conducts a meticulous examination of all the raw materials, and ends with a 100 % visual check by specially trained personnel. The most precise dimensioning

and the cleaning of the cases after every production step are a matter of course for us. So we achieve precise dimensions and a brilliant appearance. For me, both of these are very significant factors, and I reckon that this effort is unique in the business.





# RELIABLE IGNITION

The smallest component of the RWS cartridge sets world standards.

- ① The sealing lacquer protects against moisture.
- ② The primer compound is a cleverly devised composition containing a primary explosive, a sensitizer, an oxidation agent and a reducing agent, and ensures a reliable, continuous combustion of the powder mass.
- ③ The primers have innovative surface coatings that guarantee protection even from extreme climatic conditions.
- ④ The shape and perfect seating of the anvil ensure reliable, fast ignition.



RWS primers are manufactured in a modern production plant using advance production techniques. Primer production processes include stamping and drawing out the cup, loading the primer compound, drying and pressing and finally fitting the anvil. We use the most modern optoelectronic test equipment to check for any deviations in the assembly and dimensional accuracy. Ignition sensitivity is adjusted so precisely that a deep and central blow from the firing pin will produce 100% ignition.

By 1918 RWS had developed the now world famous mercury free Sinoxid technology based on the substances Trizinate and Tetrazene. Trizinate has excellent

storage properties and outstanding ignition characteristics and the addition of Tetrazene adjusts the ignition sensitivity of the primer.

This results in a primer that offers excellent performance and functionality and a high level of handling safety.

The latest primers with Super Clean Technology (Sintox) are insensitive to temperature changes and guarantee perfect performance and reliability even under extreme conditions, from -60 to +60 Celsius. As there is no lead in this primer there is no heavy metal pollution to affect the user or nearby range officers when used in indoor ranges.

**Super Clean – tomorrow's world standard.**

## The secret is in the mix



Powder is not just powder. Propellant powders consist mainly of gelatinized nitrocellulose, with special additives: Single-base propellant powder is a powder made basically from pure nitrocellulose. But for ammunition with a relatively low projectile mass but high muzzle velocity – i.e. high-performance ammunition with a flat trajectory – nitrocellulose does not provide enough energy. In

this case, double-base or even triple-base powders are used, in which an increased quantity of nitroglycerine or similar substances provides increased energy.

The basic components, the geometry and the surface treatment determine the combustion characteristics of the powder. Rifle cartridges are predominantly loaded with progressive propellant powders. With these powders, the burning rate is initially somewhat slower, but becomes continuously faster as combustion progresses.

RWS uses more than 40 different propellant powders, which we purchase to our specifications from renowned European manufacturers. Before they are used, we carry out laboratory tests to check that the specified parameters are being maintained. RWS is also significantly involved in the development of various powder additives. In this way, we ensure that our rifle cartridges contain special additives that, for instance, act to reduce fouling or muzzle flash (Flash Control).

**Dr. Ulrich Bley (Head of the Chemistry Laboratory at RWS)** – primer technology is part of our core competence. The apparently smallest part of the cartridge is a determining factor for the performance of the entire assembly. Good ignition means steady combustion of the powder and thus helps to achieve accuracy and reliability. Here in Fürth we are setting world standards for primer

compounds. The SINOXID compound is now the standard for just about every high-quality rifle cartridge. But we also produce the SINTOX primer compound, better known as Super Clean. We think that the future belongs to this primer compound which is free of heavy-metal.





# ABSOLUTELY EFFECTIVE

## Projectiles from RWS

RWS is the only manufacturer of rifle cartridges that exclusively uses bullets made in its own production facilities. RWS has over a century's experience in designing and producing its own bullets and this knowledge is at the heart of today's production.

Manufacturing our special bullets involves a lot more than just putting a core into a jacket and to be able to manufacture such a wide range of quality projectiles, RWS has a highly complex production facility. In this plant the most up to date technology ensures the fusion of core and jacket.

Depending on the ballistic requirements the bullet core is drawn from one of six different hardness grades of

lead wire; the jacket cup is drawn and trimmed several times and depending on the bullet type one or two core sections are pressed in and specific features such as cannelures are applied. All bullets are then subject to a 100% visual inspection.

Production can involve up to 14 manufacturing steps and 11 quality checks. Rigorous tests during the loading procedure ensures that the highest quality RWS specifications and standards are vigorously maintained. RWS feels it has a duty to maintain the very highest standards of production and performance, its quality aspirations are continually under review.

cial bullets have an absolute advantage with respect to the initial shock effect. The game drops quickly, without fleeing very far. The difference is particularly noticeable when guests are in our hunting grounds and try out other products.

## As a rule, we distinguish 3 different types of bullet:

### Expansion bullets

Designed to expand when they strike the game but to largely retain their mass. RWS EVO bullet is an

excellent example of an expansion bullet; the shock effect is achieved by the controlled deformation while the bullet retains its mass.



### Partial fragmentation bullets

These are designed so that they partially disintegrate in a controlled manner, leaving a defined residual portion. DK is an example of this type: It is a partial fragmentation bullet that always retains a residual mass of 60 %. A soft nose bullet, such as the KS or TM types, may be considered to be a partial fragmentation bullet, whereby the retained mass varies slightly

according to the bullet velocity and the resistance of the target. The operating principle of this type of projectile is based on the massive destruction of internal organs caused by its controlled fragmentation and the defined retained mass. The suction effect of the retained portion ensures that most of the fragments from the frontal core will be drawn out of the body of the game.



### FMJ (full metal jacket) bullets

FMJ bullets are projectiles with a stable form and mass. They do not disintegrate, and there is little deformation, depending on the resistance of the

target. The penetration shock and energy transfer are achieved by the delayed tumbling of the bullet within the body of the game.

Our development programme includes testing in the laboratory and field. We conduct tests on gelatine blocks as these have a similar density to muscle tissue and the results indicate how the bullets energy will affect the body of the game. We also carry out extensive field testing to be able

to evaluate the performance of the bullet in game. Pages 30-38 show the results of test firing .30 cal. bullets in gelatine. High speed films are also available on line at [www.rws-ammunition.com](http://www.rws-ammunition.com) and they show the impressive effects of our range of special bullets.



Simulated wound cavity in a gelatine block

**Friedrich Müller (Test Firing Foreman at RWS)** – For half a century, my family has been looking after the RWS test hunting grounds south-west of Nuremberg. As a result, I have been carrying out field tests of new developments for some considerable time. And have observed time and again that the spe-





# THE RIGHT CHOICE

## Understanding calibers

Calibers are designated and expressed in different ways, for example, metric calibers include bore and case length. As an example take 7 x 64, the figure '7' is the nominal rounded value of the caliber (bore diameter) in millimeters and the '64' is the case length, again rounded in millimeters. English speaking countries use the Imperial system where calibers are expressed

in inches (1" = 25.4 mm) and omit the case length, e.g. .243 Win. In some instances an extra figure can indicate the origin of the caliber, e.g. .30-06; this is a .30 inch caliber introduced in 1906. Sometimes the name of the manufacturer that developed and introduced a cartridge is included in its description e.g. 6.5 x 65 RWS or the .30R Blaser.

## Close-season calibers

"Close-season calibers" is a term used for those calibers which are popularly used in the close season for pest control and varmint. These are usually in a fairly small caliber, such as the .22 Hornet.

## Primer groove lacquer seal

Cartridges of the same caliber may have bullets that have the same design but different weights. RWS makes it easy to recognize the cartridge; those with

heavy projectiles have a red or green lacquer seal in the groove between the primer and the base.

Examples within a caliber group:

Bullet with the lightest weight:



Bullet with a medium weight:



Bullet with the heaviest weight:



### Special situation 8 x 57 IS / IRS

RWS has two different caliber versions (IS, IRS) of the 8 x 57 cartridge. Although they both have a case length of 57 mm, there are slight differences in the bore and groove diameters. In order to make a reliable distinc-

tion between these two calibers, the cartridges with the larger bullet diameter have the additional designation letter "S". RWS cartridges in the "S" caliber are also identified by black lacquer in the groove.

## The designation matters

### Metric and imperial systems

| Metric system | Examples          | Imperial system<br>(diameters in inches) | Examples                         |
|---------------|-------------------|------------------------------------------|----------------------------------|
| 5,6 mm        | 5,6 x 50 R Magnum | .222 - .228                              | .22 Hornet, .222 Rem., .223 Rem. |
| 6 mm          |                   | .243                                     | .243 Win.                        |
| 6,5 mm        | 6,5 x 65 RWS      | .257 - .264                              |                                  |
| 6,8 mm        |                   | .277                                     | .270 Win., .270 WSM              |
| 7 mm          | 7 x 64            | .284                                     | .280 Rem.                        |
| 7,62 mm       |                   | .308                                     | .308 Win., .30-06, .30 R Blaser  |
| 8 mm          | 8 x 57IR          | .318                                     |                                  |
| 8 mm S        | 8 x 57IRS         | .323                                     |                                  |
| 9 mm          |                   | .358                                     |                                  |
| 9,3 mm        | 9,3 x 62          | .364 - .366                              |                                  |
| 9,5 mm        |                   | .375                                     | .375 H&H Mag.                    |
| 10,3 mm       | 10,3 x 60R        | .413                                     |                                  |
| 10,75 mm      |                   | .423                                     | .404 Rimless                     |

The dimensions on the metric system (in mm) correspond approximately to the imperial dimensions (in inches).



# INFORMATION ON THE SPOT

## The package

Every RWS cartridge package is printed with a clear summary of the ballistic information, so that it is available on the spot when you are out hunting.

A special fold-out card on the back of the package presents a detailed picture of the bullet, its effect on game, and other practical information for the hunt.

**Doris Adam (International Sales Manager at RWS)** – The new RWS package includes just about all the information that a hunter needs to answer the question: "Is this the bullet I need?" The advantages of the product are visible at a glance, and one can see a picture of the operation of the specific projectile.

With our enormous range of products, we think that it is important to provide some orientation. Especially when combined with the brochures, the RWS web site, and the new RWS app, everybody can find their optimum bullet or caliber. What you might call a tip from hunters for hunters.



- 1 Ballistic data in the metric system for spot-on aiming point correction or fast correction of the scope reticule and ballistic reticules
- 2 Stages of bullet deformation / disintegration to illustrate the method of operation
- 3 Bullet type
- 4 Caliber designation
- 5 Bullet weight in grams and grains (1 grain = 0.0648 grams)
- 6 Ballistic data in the imperial system
- 7 Production code / batch number (2 numbers and two letters) provides information about the production series of the cartridges.



# RELIABLY ON TARGET

## Basic ballistics

Ballistics is “the science of the shot”. We distinguish between 4 different areas:

Internal ballistics covers all that happens as the shot is made, such as gas pressure and bullet velocity within the barrel. Rotationless flight (freebore) is that short distance where the bullet is no longer held in the neck of the cartridge, but has also not yet been pressed into the lands (the raised sections of the barrel cross-section) of the barrels, so it has not yet started to spin. The grooves (deeper sections of the barrel cross-section) and the lands impart a stabilizing spin to the bullet as it travels down the bore.

### Acquiring ballistic data

The ballistic data for RWS cartridges are not absolute values, but average values derived from a large number of measurements with guns from various manufacturers. Different barrel lengths, for instance, can effect these values quite significantly. The test-

Muzzle ballistics refers to what happens around the muzzle as the bullet leaves the barrel. Exterior ballistics deals with the free flight of the projectile after it has left the muzzle and before it reaches the target, taking into account all exterior influences, such as gravity, air resistance and atmospheric parameters. Finally, target ballistics concerns the effect of the projectile on the target.

firing results for all cartridges are acquired and evaluated under constant test conditions in our physical ballistics laboratories. As a rule, the values shown in our ballistics data apply to a horizontal shot at mean sea level.



### The trajectory

As well as cartridge description we also give the barrel length used to obtain our data; for RWS calibers this is normally 600 mm. If the length of the barrel in a particular gun is a few mm longer or shorter than the specified length, then the velocity will be correspondingly higher or lower and for high-power cartridges this value may

therefore vary by up to 20 meters/sec. The data also assumes that the telescopic sight is mounted so that the line of sight is 5 cm (2”) above the axis of the bore. Positive values indicate a high shot; negative values indicate a low shot.

### Point-blank range – PBR

Point blank range is defined as the point where the projectile trajectory falls and crosses the line of sight again and assuming that the bullet has not risen more than 4cm above the sight line while in flight. So in the example illustrated above, it is not necessary to alter the point of aim for distances up to 209 meters and so it is possible to zero the rifle (sighting-in) at 100 meters. For instance, when using a 7 x64m at this distance, it should shoot 4 cm high in order to use it at all ranges up to the 209 meters shown in the example without

correcting the point of aim. The RWS sighting-in target, with the corresponding tips for accurate zeroing, is ideal for zeroing a rifle. (Available as a download under [www.rws-ammunition.com](http://www.rws-ammunition.com)) It is well known that the point of impact of RWS cartridges hardly alters from one batch to another, however a hunter should always take a test shot when using new ammunition with a different batch number.

### Layout and interpretation of the tables: see P. 58 ff

Fact, every fired projectile is slowed down by air resistance. This reduction in velocity depends on the profile and the mass, as well as the velocity of the projectile and the density of the air. The ballistic coefficient (BC) is a parameter for the projectile-dependent influences on this deceleration, and is thus a measure of how much a projectile will be slowed down by air resistance, or, looking at it the other way, its ability to overcome air resistance. The velocity V is given in meters per second (m/s) for distances of 0, 50, 100, 150, 200, 250 and 300 meters.

V<sub>0</sub> is therefore the value at zero distance from the muzzle – in other words, the muzzle velocity. The kinetic energy of a projectile is calculated from its velocity and its mass. Energy values are given in joules (J), also for distances from 0 to 300 meters. E<sub>100</sub> is therefore the energy delivered to the target if the bullet strikes the game at a distance of 100 meters. In Germany, the minimum requirements are: E<sub>100</sub> = 1,000 J when hunting roe deer with a rifle, and E<sub>100</sub> = 2,000 J with a minimum caliber of 6.5 mm when hunting other hoofed game.



# EVERYTHING AT A GLANCE

## The new RWS homepage

After two years online we have given the RWS and Rottweil homepage a new look, improved access and made it more 'user friendly'. Existing users of the site will appreciate the substantial improvements and new users should find the site comprehensive, informative, direct and easy to use. Our aim is to offer more than just basic product information e.g.

the new updated product advisor now available as an Iphone App. Our website is updated daily and continues to evolve. We have a number of new ideas and projects that will appear on the website in the next few months, please visit us and browse at: [www.rws-ammunition.com](http://www.rws-ammunition.com)

An internet developer should always remember that whatever was OK on the web yesterday is possibly outdated today. We have developed a philosophy as to how we wish to communicate via the internet and have implemented three basic ideas.

### Everything at a glance

Our new homepage includes both Hunting and Sport. Large selection windows make it easier for you to enter the product areas and just a few clicks will take you to your chosen line where you will find comprehensive information.

Products can be found faster, via different routes and information can be obtained from data sheets and videos.

### Up to date

Our new website has a redesigned and up to date look. It is easier to read, uses larger font sizes, new photo's and an innovative page layout that uses the entire width of the screen. We have added new databases to simplify and speed up our site, we want you to find not search. We will continue to update the site with developments, news and results. In short:

#### New look

User friendly

Topical

More information

On all our pages you will find more facts, specialist knowledge, tips and connecting links.

### We now offer:

More information and facts about ammunition.

More information for specific interest groups.

More online service offers.

[www.rws-ammunition.com](http://www.rws-ammunition.com)

## RWS offers a lot of new online services

Service and communication is an important part of our Company philosophy and this is reflected in our new website. You can already find:

- an informative newsletter for Hunting and Sporting shooters, just register to receive it.
- a free Iphone App for the RWS product advisor
- an interactive glossary for all specialist terms
- the RWS hunting weather
- a new dealer search, using geo-localization
- attractive special offers for specific interest groups (e.g. clubs or young hunters)
- many connecting links to interesting topics

### ... and, of course, the popular RWS sighting-in target.

Don't forget that with every new purchase of ammunition or at the start of the season you should fire one or two shots to check zero and re-familiarise yourself with your weapon; confidence in your ammunition and gun contributes to greater success.

In the download section of our website you can find the popular RWS sighting in target as well as a number of practical tips to help avoid any 'nasty surprises' in the field.

Get online and register for the RWS newsletter, at

[www.rws-ammunition.com](http://www.rws-ammunition.com)



**NEW:** Now for all mobile phones as well





# *Projectiles*

## TAILOR-MADE

If hunting is extremely varied then so are the demands made on ammunition. Materials, bullet geometry, construction, mass and effect characteristics are all factors that must be taken into account when choosing the correct bullet. Large, medium or small game, short or long ranges, solo hunting or driven game - RWS offers a bullet for every hunting situation. RWS bullets are special; they are ballistically designed to

possess the characteristics to determine accuracy, trajectory, energy and deformation capability.

Every hunter directly from the dedication which RWS applies to the development and production of its projectiles. Bullets from RWS guarantee accuracy, performance and reliability for every hunting situation.



[www.rws-ammunition.com](http://www.rws-ammunition.com)



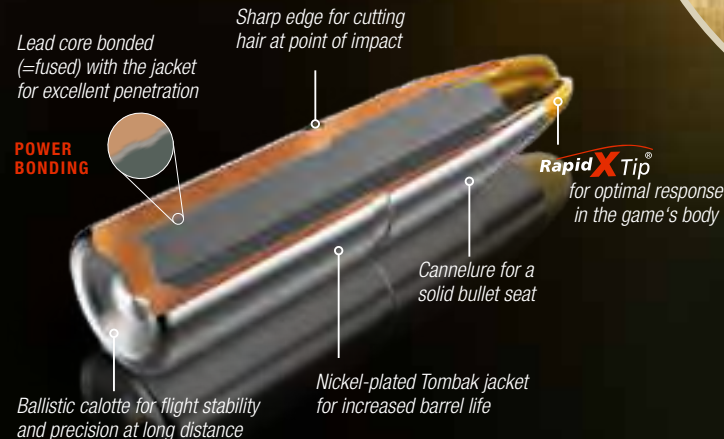


## EVOLUTION

### For convincing penetration

The advantage of using the Evolution® bullet becomes particularly obvious with a bone-hit, especially on larger game. Where a classic hits substantial bone structure, leaving little residual energy for penetration and exit, an Evolution® bullet will remain largely stable in its mass.

Thanks to the special bonding of the lead core with the Tombak jacket (Power-Bonding), the retained mass is well-nigh 100 %, thus making an exit wound highly probable and preserving the meat. Because of their aerodynamic geometry and the ballistic calotte, Evolution® bullets are distinguished by a high level of intrinsic accuracy. They have a flat trajectory and ensure high impact energy, even at long ranges.



#### The features at a glance:

- Convincing penetration – even with bone impacts
- Preserves the meat – almost 100 % retained mass, thanks to Power-Bonding
- Aerodynamic projectile profile and the ballistic calotte produce outstanding accuracy
- Nickel-plated jacket to preserve the barrel
- Rapid-X-Tip® for fast, controlled deformation

#### Calibers:

|               |                |
|---------------|----------------|
|               | .30 R Blaser   |
| .270 Win.     | .300 Win. Mag. |
| .270 WSM      | .300 WSM       |
| 7mm Rem. Mag. | 8x57 JS        |
| 7x64          | 8x57 JRS       |
| 7x65 R        | 8x68 S         |
| .308 Win.     | 9,3x62         |
| .30-06        | 9,3x74 R       |



Simulated wound cavity in a gelatine block



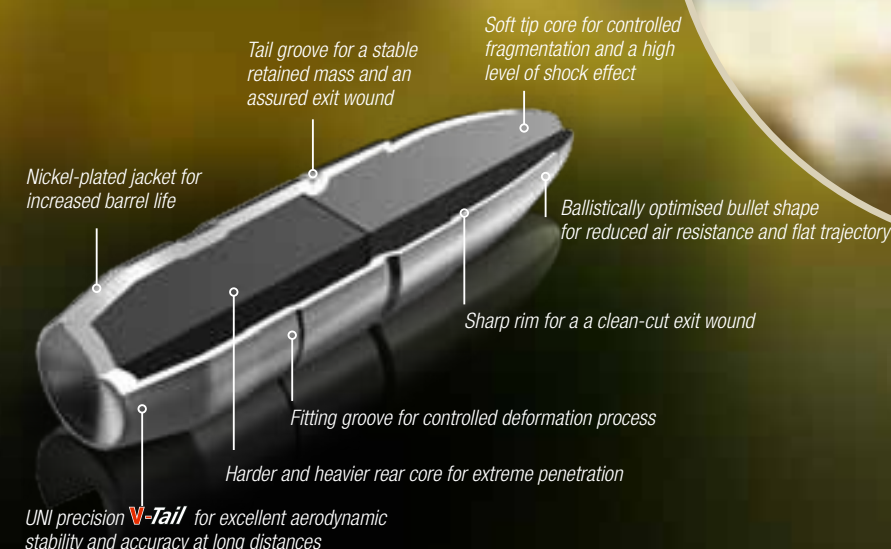
## UNI PROFESSIONAL

### The Next Generation

100 years of successful experience in the development of hunting bullets form the foundation for the latest innovation from RWS. An 18 % reduction in air resistance compared with the UNI Classic results in a noticeably flatter trajectory and extends the usable range for hunting. At the same time, the impact behavior on the target has been further improved.

Operating principle of the UNI Professional

- The front core disintegrates and generates a limited quantity of fragments
- The rear core will only expand slightly, and will thus usually ensure an exit wound
- The sharp edge ensures the desired clean cut
- The Uni Pro can be used universally on heavy game and causes little damage to the meat

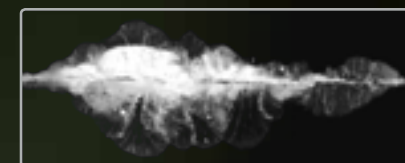


#### The features at a glance:

- Optimized BC value for a flatter trajectory
- High projectile velocity and flight stability
- Longer usable hunting range
- Reliable effect on the game
- Available as RWS Silver Selection

#### Calibers:

|               |
|---------------|
| .308 Win.     |
| .30-06        |
| .300 Win. Mag |



Simulated wound cavity in a gelatine block





## ID CLASSIC

### For light game

The basic idea of the ID Classic is to combine wide-area and penetration shock on the target. This has been achieved by combining two lead cores of different hardness, one of which plugs into the other. The softer front core undergoes controlled fragmentation and transfers its energy quickly to the body of the game. The rear core of the ID Classic bullet expands rapidly, compared to the UNI Classic, and is therefore especially suitable for light to medium game.

The nickel-plated mild steel jacket is easy on the barrel and becomes thicker towards the rear, to ensure controlled deformation. Its torpedo shaped base promotes stability in flight.



#### The features at a glance:

- IDEAL for light and medium game
- Rapid partial fragmentation ensure high energy transfer
- Normally an assured exit wound
- Sharp edge to make the desired clean cut
- Rearward neck limits the tearing-off of the jacket strips



#### Calibers:

|                |           |
|----------------|-----------|
| 7x57           | 7x65 R    |
| 7x57 R         | .308 Win. |
| 7 mm Rem. Mag. | .30-06    |
| .280 Rem.      | 8x57 JS   |
| 7x64           | 8x57 JRS  |



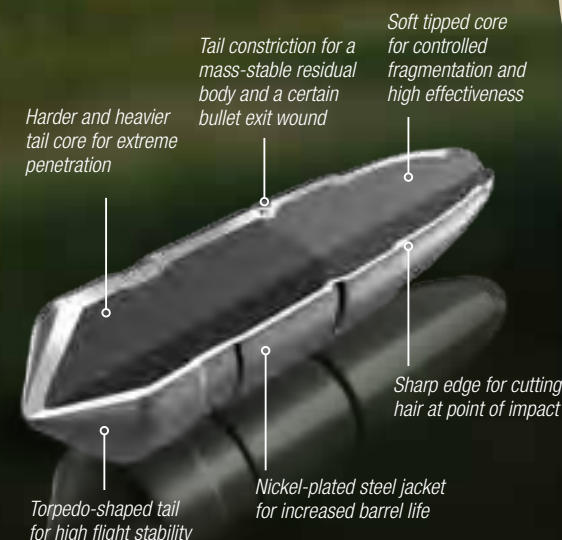
Simulated wound cavity in a gelatine block



## UNI CLASSIC

### For heavy game

The UNI Classic bullet was developed for hunting heavy hoofed to big game. With a harder and heavier rear core it expands less than the ID Classic and this acts to increase penetration. Similar to the ID Classic the front core offers controlled fragmentation for high impact shock and its torpedo shaped base promotes stability in flight.



#### The features at a glance:

- UNIVERSAL for heavy game
- Front core fragments and ensures a fast energy transfer to the target
- Sharp edge makes a clearly visible entry wound with a clean cut
- Harder rear core shows limited deformation and reliably produces the desired exit wound
- Rearward neck limits the tearing-off of the jacket strips
- Little damage to the meat



#### Calibers:

|                |               |
|----------------|---------------|
| .308 Win.      | 9,3x62        |
| .30-06         | 9,3x64        |
| .30 R Blaser   | 9,3x74 R      |
| .300 Win. Mag. | .375 H&H Mag. |



Simulated wound cavity in a gelatine block





# DOPPELKERN

For a controlled impact shock

This double core projectile contains cores of different hardness. The front core fragments producing high impact shock and the deformation of the rear core is controlled by the unique gilding cup that separates the two cores. With the cores having a 50 : 50 weight ratio this ensures a perfect balance between impact shock and a straight wound channel for an exit wound.



The features at a glance:

- Good, clear effect of the shot on the game
- Extremely short flight distance
- Sharp edge ensures a clean-cut exit wound
- Fast, controlled energy transfer produces high impact shock
- Reliable exit wound guarantees enough blood flow
- Little damage to the meat

Calibers:

|              |                |
|--------------|----------------|
| 6,5x55       | .300 Win. Mag. |
| 6,5x57       | 8x57 JS        |
| 6,5x57 R     | 8x57 JRS       |
| 7x64         | 8x68 S         |
| 7x65 R       | 9,3x62         |
| .308 Win.    | 9,3x64         |
| .30-06       | 9,3x74 R       |
| .30 R Blaser |                |



Simulated wound cavity in a gelatine block



# H-MANTEL

For maximum effect

The special feature of this bullet is the famous H cannelure, a neck formed about halfway along the jacket, which functions as a predetermined break point. It helps to separate the two bullet cores with their different hardness, and is responsible for the dual effectiveness of this projectile. The front portion disintegrates very quickly on striking the game and releases a great deal of energy – for maximum shock. The cylindrical rear section breaks off at the H cannelure, drives through the body of the game without significant deformation, and thus ensures a reliable exit wound. The suction effect of the rear section ensures that most of the fragments from the front core will be drawn out of the body of the game.



The features at a glance:

- Bullet is highly effective
- H-shaped neck produces controlled fragmentation
- Mildly bumped-up base ensures a reliable exit wound
- Little damage to the meat

Calibers:

|           |          |
|-----------|----------|
| .270 Win. | 8x57 JS  |
| 7x57R     | 8x57 JRS |
| 7x64      | 8x68 S   |
| 7x65R     | 9,3x62   |
| .308 Win. | 9,3x74 R |
| .30-06    |          |



Simulated wound cavity in a gelatine block





# KEGELSPITZ

For maximum precision

Whether large or small game – the bullet expands in a controlled manner and transfers energy evenly to the body of the game, while retaining an effective expanded residual portion for the exit wound. The secret lies in the optimum balance between jacket thickness and the hardness of the lead core. The profile of this projectile creates ideal conditions for high accuracy and low air resistance.



- The features at a glance:**
- Extraordinary accuracy, thanks to the long cylindrical section of the projectile
  - The cannellure towards the rear of the bullet stops deformation and ensures an compact residual portion with a high probability of an exit wound
  - Low residue level in the body of the game

| Calibers:    |                |                |
|--------------|----------------|----------------|
| 5,6x57       | .270 Win.      | .30-06         |
| .243 Win.    | .270 WSM       | .30 R Blaser   |
| 6,5 x 55     | 7x57           | .300 Win. Mag. |
| 6,5x57       | 7x57 R         | 8x68 S         |
| 6,5x57 R     | 7 mm Rem. Mag. | 9,3x62         |
| 6,5x65 RWS   | 7x64           | 9,3x74 R       |
| 6,5x65 R RWS | 7x65 R         | .375 H&H Mag.  |
| 6,5x68       | .308 Win.      |                |



Simulated wound cavity in a gelatine block



# SOFT POINT

For high energy transfer

A type of bullet that has been very successful for decades, and which still has many fans today. The well-established design provides high energy transfer to the body of the game – for good knock-down performance. With a pointed nose or a robust round nose.



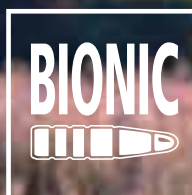
- The features at a glance:**
- Fast deformation capability on light and heavy game
  - High energy transfer to the body of the game
  - Insensitive bullet point for rough handling

| Calibers:          |                |              |
|--------------------|----------------|--------------|
| .22 Hornet         | 6,5x57         | 8x57 JS      |
| .222 Rem.          | 6,5x57 R       | 8x57 JRS     |
| .223 Rem.          | 6,5x68         | 9,3x62       |
| 5,6x50 Magnum      | .270 Win.      | 9,3x74 R     |
| 5,6x50 R Magnum    | 7x57 R         | .404 Rimless |
| 5,6x52 R           | 7 mm Rem. Mag. |              |
| .243 Win.          | 7x64           |              |
| 6,5x54 Mannl. Sch. | 7x65 R         |              |



Simulated wound cavity in a gelatine block

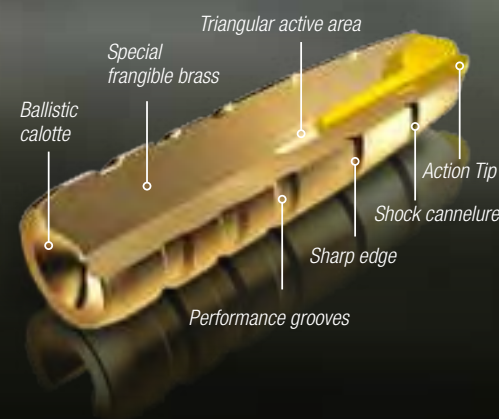




## BIONIC YELLOW®

### Lead-free flexibility

RWS lead free Bionic cartridges are based on a finely adjusted mix of brass alloy and its Dual-Tec principle delivers outstanding accuracy. Unlike some other simple copper bullets the Bionic leaves minimum copper fouling in the barrel due to its advanced material characteristics and profile design.



#### The features at a glance:

#### Partial Fragmentation Bullet

This lead free partial fragmentation bullet is designed to be effective at short range. A combination of the frangible special brass alloy and shock canelures guarantee a defined fragmentation with high shock effect at close ranges ; these characteristics are particularly evident when used on light to medium game.



**Calibers:** .308 Win, .30-06



Simulated wound cavity in a gelatine block



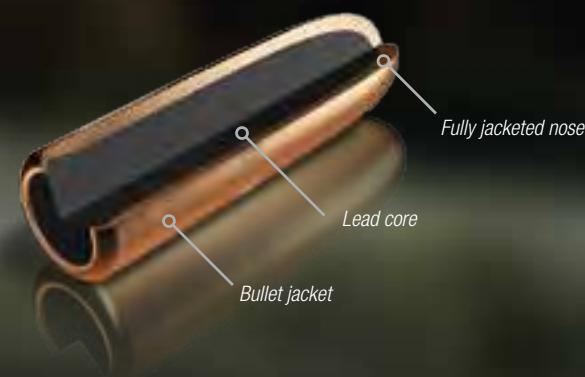
## FULL METAL JACKET

### For special applications

Full Metal Jacket bullets have a variety of uses including training, varmint hunting and in some countries for shooting small game birds. In large calibers they are also suitable for game such as buffalo; they can punch through tough bones and a heavy body. To ensure the bullet performs and travels through the body the nose of the bullet must be enclosed and in some cases reinforced. Small calibers have a sharper more pointed nose and the larger calibers are more rounded.

#### Calibers:

.22 Hornet, .404 Rimless



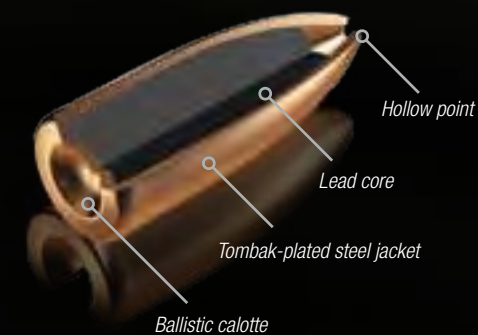
## HUNTING MATCH

### For training and competition

Generations of young hunters and competition shooters have successfully relied on these cartridges for there training and tests. Federal German hunting laws require a minimum energy of  $E_{100} > 1000 \text{ J}$  and this makes the RWS .222 Rem MJ 52g bullet especially suitable for training for a hunting licence and to use in the practical examination. It is not suitable for actual hunting.

#### Calibers:

.22 Hornet, .222 Rem., .308 Win.,





# EXPERTS TRUST RWS



**Franz-Albrecht, Erbprinz zu Oettingen-Oettingen und Oettingen-Spielberg (Wild boar fever 3)** – People were always asking me about the .270 Win. – the unusual caliber I use for driven hunts. However, ever since the film “Wild boar fever 3”, which demonstrates the effectiveness of this caliber, particularly in combination with the **H-Mantel bullet** (H-jacket bullet), the questioning has died down! For driven hunts I look for knock-down performance, so that everything lies in plain view. The reliability of the H-Mantel bullet gives me a good feeling and confidence at the firing point.



**Dr. Ralph Nebe (Sales & Marketing Manager, Carl Zeiss Sports Optics GmbH)** – Hunting in the mountains has always excited me. An exacting form of shooting that places the highest demands on the shooters and the equipment. Optics and ammunition are of outstanding importance. The **Evolution** bullet from RWS convinces me every time I am in the mountains. It is unbelievably accurate and, because of its high weight, brings enough energy to the target, even at long ranges. The drop is no problem, thanks to the fast reticule adjustment (ASV, Absehenschnellverstellung) from Zeiss. My optimum solution, when it matters.



**Mads Jessen (Journalist)** – In Scandinavia, the 6.5x55 is Number 1! Because we are crazy about target shooting as well as hunting we clever Scandinavians worked out a long time ago that the 6.5x55 is a great cartridge for both. To compensate for the fact that this caliber is a rather small one for a universal caliber, I insist on partial fragmentation bullets for hunting heavier game. The **Doppelkern** (double core) is not only very effective, it also causes little damage to the meat. After all, the second great enthusiasm of Scandinavians is eating.



**Thorsten Mann (General Manager of Mauser Jagdwaffen GmbH)** – As the general manager of Mauser, I maintain close business contacts with our customers at home and abroad, and that involves frequent traveling. Regrettably, this often means having hardly any time for hunting, so I am particularly pleased if I can accept an invitation to a hunt. And then I place my trust entirely in my Mauser M 03 in combination with the **UNI Classic!** This is the combination of proven weapon and projectile design that give me reliability and adequate reserves for a humane hunt of even heavy game around the world!



**Matthias Klotz (General Manager of Sauer & Sohn GmbH)** – For me, the optimum caliber and projectile for a specific type of hunt and game are distinguished by the sum of their positive features. Thanks to my S 202 Take Down I have unlimited flexibility in the matter of caliber. And as for the bullet, I have trusted **Kegelspitz** (spire points) for years. Whether they are 6.5x55 (8.2 gram KS), .300 Win. Mag. (10.7 gram KS) or 9.3x62 (16 gram KS): I can rely on these classic bullets at any time, as they all have enormous accuracy, outstanding impact shock, and an acceptable level of meat damage.



**Gunther Stoschek (Strategic Marketing Manager at Blaser Jagdwaffen GmbH)** – More than three decades ago, right at the start of my training with Blaser, a saying in the company was: the **H-Mantel** (H-jacket) from RWS almost always shoots the best! And today it is still rated as one of the very clear favorites in our numerous long-range shooting seminars. For hunting, I have learnt to appreciate the H-jacket bullet, especially in the “slower” calibers, such as .308 Win. or 7x57R. The concealed hollow point means that it has an excellent impact behavior even at long ranges, thus ensuring an excellent shock effect. And there is always an exit wound, even with large game, although I hardly need it, since the game usually drops on the spot



**Also No. 1 for professionals**  
RWS rifle cartridges are the clear favorites\* for Germany's professional hunters.

\*According to a survey of 124 professional German hunters, the RWS market share was twice as large as the second-placed brand.





A full-page background image showing a hunter in profile, running through a sun-dappled forest. The hunter is wearing a blue baseball cap, a brown jacket, and dark pants. He is carrying a long-barreled rifle under his arm. The scene is captured with a motion blur effect, suggesting speed and action.

ALWAYS SOMETHING

*Special*

Different areas of application require different and special cartridges. For hunting in extreme conditions, long range match shooting, training or even personalised cartridges RWS can offer the ammunition solution.

RWS cartridges are as good as they look; effective, reliable, technically and ballistically advanced.

RWS rifle cartridges - special in every way.



[www.rws-ammunition.com](http://www.rws-ammunition.com)



# Silver Selection

## SILVER SELECTION

Technically and aesthetically unique

With the implementation of unique innovations, incomparable performance and stunning looks we have exceeded our own high expectations with the new Silver Selection.

The Silver selection is a unique type of cartridge unmatched in all respects by any competitors and underlines the creative technological leadership position of RWS rifle cartridges. A new definition of high performance means that

the RWS Silver Selection is suitable for hunting even in extreme situations.

On ice or in a desert, in the Taiga or deep forest, day or night the advanced features of the Silver Selection can cope with all hunting situations. Silver Selection is the cartridge of choice for the hunter who can face up to any challenge and demands only the best from himself and his ammunition.



**Kasper Johansen (Researcher at the Danish National Environmental Research Institute)** – On my expeditions to Greenland, I always have my rifle and ammunition with me. In the event of an attack by a polar bear, I want to be prepared. The low temperatures and the resulting rough handling

of the material show up the heavy demands made on a reliable cartridge very clearly. If attacked, there would be no time for misfires. So the Silver Selection, developed for extreme conditions and with an unparalleled reliability, has become our life insurance.



# Silver Selection



- Deformation projectile for minimum meat damage and effective penetration shock
- Outstanding accuracy
- Kind to the barrel
- Flexible in use
- Rapid-X-Tip® for fast, controlled deformation



- Partial fragmentation projectile for high impact shock and assured exit wound
- Ballistically optimized projectile profile reduces air resistance and flattens the trajectory
- Modified nickel-plated jacket ensures a reliable effect on the body of the game
- UNI precision V-tail provides outstanding stability in flight and accuracy at long distances



The original advantage of the Super Clean technology lies in the fact that it prevents any heavy metal emission arising in the vicinity of the shooter. In order to be able to fulfill the requirements resulting from the extreme range of application of the Silver Selection, the primer compound has undergone further development. Silver Selection has the highest level of functional reliability, even under extreme temperature conditions. And Super Clean technology protects against ignition delay in critical situations, the gold-plating of the cup protecting against corrosion.



The Flash Control technology used in the Silver Selection is a new innovation taking RWS technical expertise to a new and higher level. It reduces muzzle flash and in darkness allows the hunter to retain his night vision and keep the quarry in sight.



We go to the limits of what is technically feasible to reach the optimum performance of Silver Selection. A special new powder, combined with a performance-oriented load ensures power reserves – all for hunting success under extreme conditions.



The RWS cases used for Silver Selection have been additionally enhanced in the in-house plating plant. The special surface makes the cases even more resistant to external influences. The Nickel Finish technology applied to the Silver Selection cartridge cases makes them easier to chamber and faster in reloading than normal cartridges.

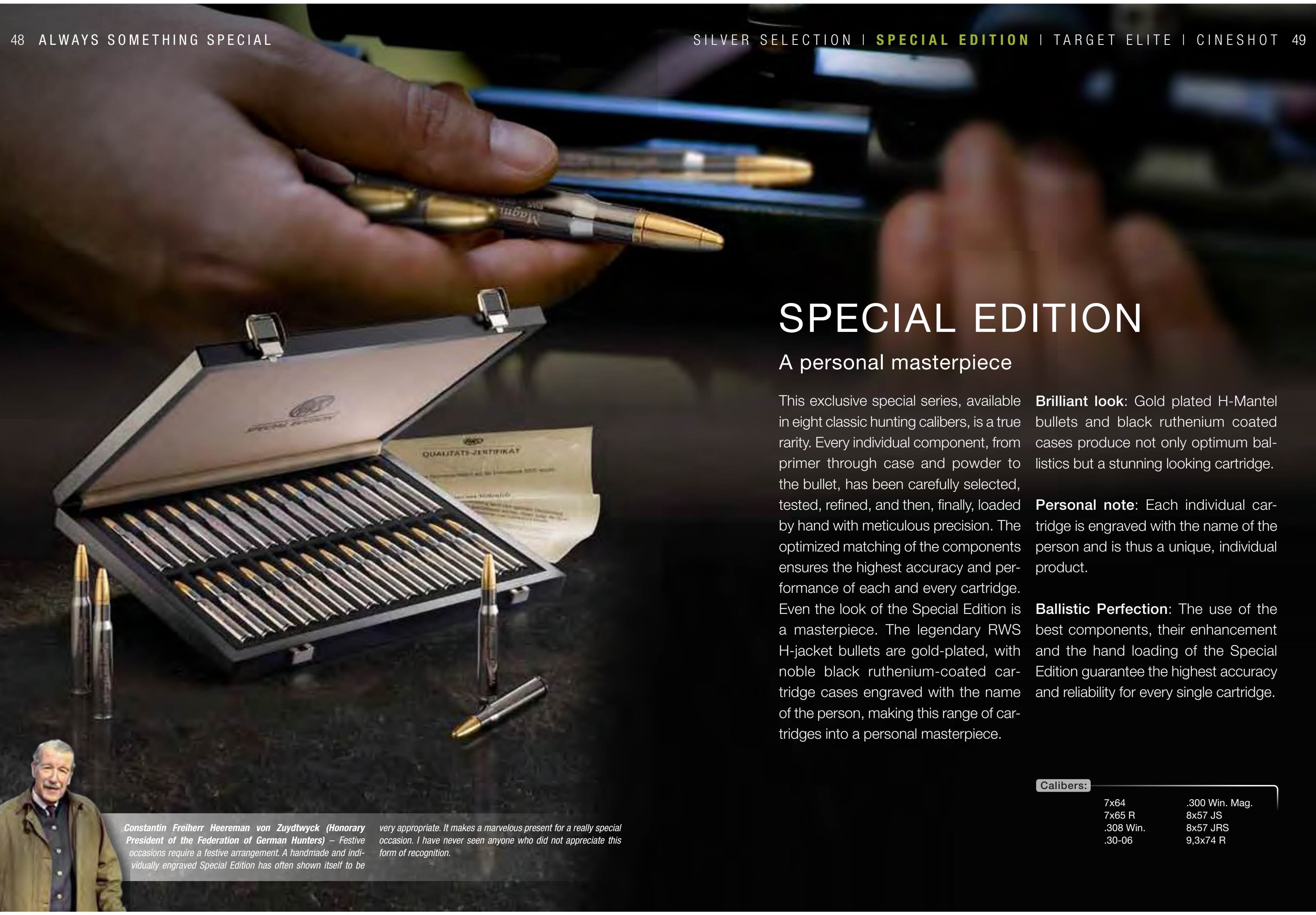
#### Calibers EVO:

|                     |                    |                |
|---------------------|--------------------|----------------|
| .308 Win.<br>9,3x62 | .30-06<br>9,3x74 R | .300 Win. Mag. |
|---------------------|--------------------|----------------|

#### Calibers UNI PRO:

|           |        |                |
|-----------|--------|----------------|
| .308 Win. | .30-06 | .300 Win. Mag. |
|-----------|--------|----------------|





# SPECIAL EDITION

## A personal masterpiece

This exclusive special series, available in eight classic hunting calibers, is a true rarity. Every individual component, from primer through case and powder to the bullet, has been carefully selected, tested, refined, and then, finally, loaded by hand with meticulous precision. The optimized matching of the components ensures the highest accuracy and performance of each and every cartridge. Even the look of the Special Edition is a masterpiece. The legendary RWS H-jacket bullets are gold-plated, with noble black ruthenium-coated cartridge cases engraved with the name of the person, making this range of cartridges into a personal masterpiece.

**Brilliant look:** Gold plated H-Mantel bullets and black ruthenium coated cases produce not only optimum ballistics but a stunning looking cartridge.

**Personal note:** Each individual cartridge is engraved with the name of the person and is thus a unique, individual product.

**Ballistic Perfection:** The use of the best components, their enhancement and the hand loading of the Special Edition guarantee the highest accuracy and reliability for every single cartridge.

*Constantin Freiherr Heereman von Zuydtwyck (Honorary President of the Federation of German Hunters) – Festive occasions require a festive arrangement. A handmade and individually engraved Special Edition has often shown itself to be*

*very appropriate. It makes a marvelous present for a really special occasion. I have never seen anyone who did not appreciate this form of recognition.*

| Calibers: |                |
|-----------|----------------|
| 7x64      | .300 Win. Mag. |
| 7x65 R    | 8x57 JS        |
| .308 Win. | 8x57 JRS       |
| .30-06    | 9,3x74 R       |



# TARGET ELITE

## Ultimate match grade cartridges

The special cartridges from the TARGET ELITE series make it possible to achieve a high degree of accuracy at very long ranges. High quality components are loaded using the most modern manufacturing methods to create first class match cartridges which are highly favoured by shooters with high demands for accuracy. TARGET ELITE

in .308 Win is suitable for distances up to 600 meters; TARGET ELITE Plus can be used for extreme ranges up to 1200 meters. An advanced precision two step loading process provides the TARGET ELITE Plus with extremely finely tuned ballistics and consistent accuracy taking the standard of precision target shooting to new levels.



### RWS: Partner of the NRA

RWS is the exclusive supplier for the National Rifle Association in Great Britain. The prestigious Imperial Meeting in Bisley is shot over distances up to 1200 yards (nearly 1100 meters), using RWS match cartridges. RWS convinced our partners through outstanding precision.



**Iain Robertson (Executive Officer, Shooting Committee, NRA)** - In 2008, RWS was selected as the supplier for the Imperial Meeting of the National Rifle Association of Great Britain, which is held annually in Bisley, Surrey, and reaches its culmination

with the most prestigious shooting competition in the world: "Her Majesty the Queen's Prize". Very severe specifications were laid down, in order to achieve the best possible performance within the technical limitations of pressure and velocity for the special

target rifles which are used for this world-class competition. For three successive years, RWS has supplied ammunition that has no problem in exceeding all the specifications. The critical test for competition ammunition is its consistency. NRA members

have by now fired off more than a million RWS cartridges, and can be sure that "it lands where you point it" every time. With RWS, competition has become tougher but fairer, and the performance has improved at all levels of the sport.



# TARGET ELITE

- Highest quality "Made in Germany"
- Competition-level accuracy
- For competitive disciplines up to 600 meters
- Loaded in accordance with established production methods, using the Single Step Loading Technology process
- RWS cases in the usual high quality, with tried and tested HPBT match bullets
- Bullet weights adjusted to suit a wide spectrum of twist rates



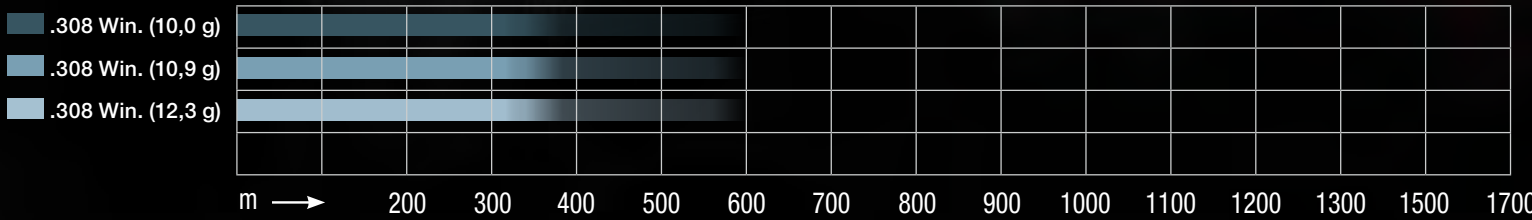
Single Step Loading Technology



- 1. Dosed powder charge
- 2. Check load weight
- 3. Seat bullet

3.9 g

Recommended for the following distances



Calibers:

.308 Win.

# TARGET ELITE PLUS

in hand-loaded quality

- Highest quality "Made in Switzerland"
- Accuracy specification defined for 300 meters: maximum standard deviation of 16.9 to 25 mm when fired from test barrels
- For long-range disciplines up to 1200 meters
- Large bore cartridges loaded in "hand-loaded" quality on the basis of "Double Step Loading Technology"
- Specially produced match cartridge cases and selected HPBT bullets
- Consistent point of impact from one batch to the next
- Configured for high-end match rifles and the twist rates used for long range shooting



Double Step Loading Technology

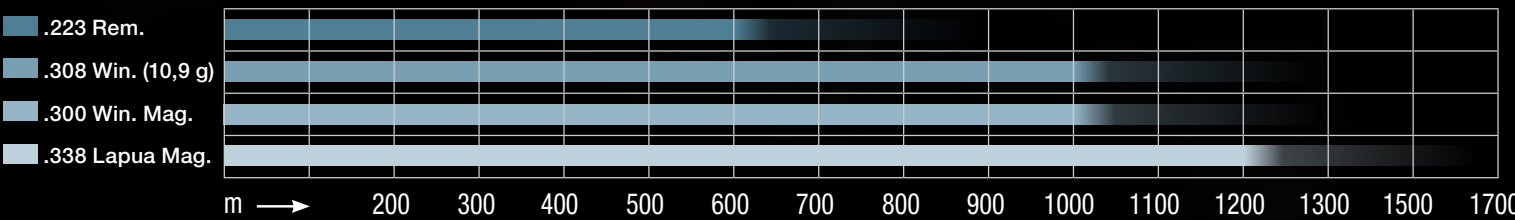


- 1. Basic powder charge
- 2. Supplementary powder weight measurement
- 3. Fine dosage powder charge
- 4. Check load weight
- 5. Bullet seating

3.7 g

3.9 g

Recommended for the following distances



Calibers:

.223 Rem.  
.308 Win.  
.300 Win. Mag.  
.338 Lapua Mag.



# CINESHOT®

## Humane hunting demands regular training

CINESHOT® is the first cartridge made especially for cinema ranges. Super Clean technology and the outstanding performance of this cartridge have been specifically adapted to this application. RWS developed

CINESHOT® as an economical ammunition to enable regular training that does not create lead contamination and is kind to the rifle. Making a contribution to health and humane hunting.

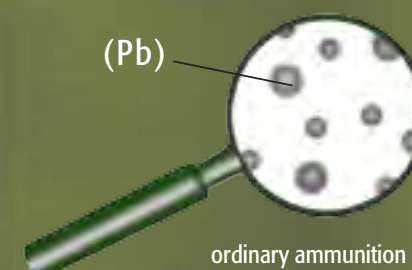
## Super Clean



When shooting ordinary rifle cartridges, lead particles escape into the atmosphere. The lead pollution is especially high in the shooter's immediate surroundings and thus for the range personnel during training on indoor shooting ranges. But thanks to lead-free Super Clean

prime technology, which has already been used for years in NATO-qualified ammunition, no more lead is introduced into the shooter's surroundings. In addition, encapsulation of the projectile around the base prevents lead particles becoming detached during the shot.

Lung-threatening lead (Pb) particles in the vicinity of the shooter, just after a shot with ordinary ammunition, and after firing a CINESHOT® cartridge.



ordinary ammunition



CINESHOT®

## Optimum performance

Because of the consistent load and a precisely adjusted projectile geometry, CINESHOT® has high intrinsic accuracy and sufficient gas pressure for reliable feeding in all normal commercial self-loading rifles. A special

surface coating of the bullet minimizes friction between the bullet and the bore, and enables intensive training without overheating and intensive cleaning.

### Calibers:

7x64  
.308 Win.

.30-06  
8x57 JS

9,3x62  
.300 Win.Mag.



[www.cinешot.de](http://www.cinешot.de)

**Peter Nölte (Range Officer, Müller Schießzentrum Ulm, [www.mszu.de](http://www.mszu.de))**  
You see a lot in a cinema range: Cartridges from Russian military stocks, misfires, jammed systems, ruined guns, muzzle flash that almost reaches the screen, and a lot of other things that aren't so good. Fortunately, Cineshot has driven all this sort of thing out of the cinema

ranges, because it is a special cartridge that is adapted to the needs of cinema ranges. So shooting is really fun! As a range officer I spend many hours each day in our 3 cinema ranges, and so I really appreciate Super Clean technology!





# Individual

... like the hunt

## The RWS application advisor

The fascinating thing about hunting is that every hunt is different and a new experience and situation so there is no universal answer to the question ‘which is the best bullet’ ? You must consider the type of hunt, kind of game, range, caliber, gun and the hunters personal preferences all make demands of the cartridge. RWS fulfills these demands with its comprehensive selection of cartridges.

Accuracy and the triple shock effect of impact shock, penetration shock and

exit wound are all a matter of course for us; for every type of game, all ranges and minimum carcass damage. Special bullets from RWS for the most demanding situations. The following tables list the most important criteria for RWS projectiles, and are intended to assist you in finding the ideal bullet for your hunt.



| Accuracy  | Flight distance | Penetration | Stopping power | Exit wound | Clean cut | Meat damage |
|-----------|-----------------|-------------|----------------|------------|-----------|-------------|
| very good | short           | very deep   | deep           | certain    | yes       | very little |
| very good | short           | very deep   | deep           | certain    | yes       | little      |
| good      | very short      | deep        | very deep      | usually    | yes       | variable    |
| good      | short           | deep        | deep           | certain    | yes       | little      |
| very good | very short      | deep        | very deep      | usually    | yes       | little      |
| very good | very short      | medium      | very deep      | certain    | no        | variable    |
| very good | short           | deep        | deep           | usually    | no        | little      |
| good      | short           | medium      | deep           | usually    | no        | variable    |
| very good | very short      | medium      | very deep      | certain    | yes       | variable    |
| good      | short           | medium      | medium         | certain    | no        | very little |



# Silver Selection

| Projectile<br>Article No. | Weight<br>g<br>gr | Barrel<br>length<br>mm<br>BC value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m | 50m | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sub>3)</sub> | 50m | 100m | 150m | 200m | 250m | 300m |        |
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|-----|------|------|------|------|------|--------------------------|-----|------|------|------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|-----|------|------|------|------|------|--------------------------|-----|------|------|------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## .308 Win.

|           |        |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |   |
|-----------|--------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|---|
| EVO       | 11,9 g | 600   | V[m/s] | 785  | 745  | 707  | 669  | 633  | 598  | 565  | ⊕   | 100 m | -0,3 | ⊕   | -4,6 | -14,7 | -31,0 | -54,1 | ○ | ○ | ● | ● | ● | 🕒 |
| 231 72 10 | 184    | 0,366 | E[J]   | 3667 | 3302 | 2974 | 2663 | 2384 | 2128 | 1899 | PBR | 161 m | 1,7  | 4,0 | 1,3  | -6,8  | -21,1 | -42,2 |   |   |   |   |   |   |
| UNI PRO   | 11,7 g | 650   | V[m/s] | 790  | 750  | 712  | 674  | 638  | 603  | 569  | ⊕   | 100 m | -0,3 | ⊕   | -4,5 | -14,5 | -30,4 | -53,2 | ○ | ○ | ● | ● | ● | 🕒 |
| 231 75 42 | 180    | 0,367 | E[J]   | 3651 | 3291 | 2966 | 2658 | 2381 | 2127 | 1894 | PBR | 162 m | 1,7  | 4,0 | 1,4  | -6,5  | -20,5 | -41,3 |   |   |   |   |   |   |

## 30-06

|           |        |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |   |
|-----------|--------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|---|
| EVO       | 11,9 g | 600   | V[m/s] | 845  | 803  | 763  | 724  | 686  | 650  | 614  | ⊕   | 100 m | -0,6 | ⊕   | -3,6 | -11,9 | -25,5 | -44,8 | ○ | ○ | ● | ● | ● | 🕒 |
| 231 72 11 | 184    | 0,366 | E[J]   | 4248 | 3837 | 3464 | 3119 | 2800 | 2514 | 2243 | PBR | 173 m | 1,4  | 4,0 | 2,3  | -4,0  | -15,5 | -32,9 |   |   |   |   |   |   |
| UNI PRO   | 11,7 g | 600   | V[m/s] | 850  | 808  | 768  | 729  | 691  | 654  | 619  | ⊕   | 100 m | -0,6 | ⊕   | -3,5 | -11,7 | -25,0 | -44,1 | ○ | ○ | ● | ● | ● | 🕒 |
| 231 75 43 | 180    | 0,367 | E[J]   | 4227 | 3819 | 3450 | 3109 | 2793 | 2502 | 2241 | PBR | 175 m | 1,4  | 4,0 | 2,5  | -3,6  | -14,9 | -32,0 |   |   |   |   |   |   |

## .300 Win Mag.

|           |        |       |        |      |      |      |      |      |      |      |     |       |      |     |      |      |       |       |   |   |   |   |   |   |
|-----------|--------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|------|-------|-------|---|---|---|---|---|---|
| EVO       | 11,9 g | 650   | V[m/s] | 940  | 896  | 852  | 811  | 770  | 731  | 693  | ⊕   | 100 m | -1,0 | ⊕   | -2,4 | -8,6 | -18,8 | -33,7 | ○ | ○ | 🕒 | ● | ● | ● |
| 231 72 12 | 184    | 0,366 | E[J]   | 5257 | 4777 | 4319 | 3913 | 3528 | 3179 | 2857 | PBR | 194 m | 1,0  | 4,0 | 3,5  | -0,7 | -9,0  | -21,9 |   |   |   |   |   |   |
| UNI PRO   | 11,7 g | 650   | V[m/s] | 950  | 905  | 862  | 820  | 780  | 740  | 702  | ⊕   | 100 m | -1,0 | ⊕   | -2,3 | -8,3 | -18,2 | -32,7 | ○ | ○ | 🕒 | ● | ● | ● |
| 231 75 44 | 180    | 0,367 | E[J]   | 5280 | 4791 | 4347 | 3934 | 3559 | 3203 | 2883 | PBR | 198 m | 1,0  | 4,0 | 3,7  | -0,2 | -8,2  | -20,6 |   |   |   |   |   |   |

## 9,3x62

|           |        |       |        |      |      |      |      |      |      |      |     |       |     |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-------|--------|------|------|------|------|------|------|------|-----|-------|-----|-----|------|-------|-------|-------|---|---|---|---|---|
| EVO       | 18,8 g | 600   | V[m/s] | 740  | 705  | 671  | 638  | 605  | 574  | 544  | ⊕   | 100 m | 0,0 | ⊕   | -5,4 | -16,9 | -35,1 | -60,7 | ○ | 🕒 | ● | ● | ● |
| 231 72 15 | 291    | 0,400 | E[J]   | 5147 | 4672 | 4232 | 3826 | 3441 | 3097 | 2782 | PBR | 154 m | 2,0 | 4,0 | 0,6  | -8,9  | -25,1 | -48,7 |   |   |   |   |   |

## 9,3x74 R

|           |        |       |        |      |      |      |      |      |      |      |     |       |     |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-------|--------|------|------|------|------|------|------|------|-----|-------|-----|-----|------|-------|-------|-------|---|---|---|---|---|
| EVO       | 18,8 g | 600   | V[m/s] | 710  | 676  | 642  | 610  | 579  | 548  | 519  | ⊕   | 100 m | 0,2 | ⊕   | -6,1 | -18,9 | -39,0 | -67,2 | ○ | 🕒 | ● | ● | ● |
| 231 72 16 | 291    | 0,400 | E[J]   | 4739 | 4296 | 3874 | 3498 | 3151 | 2823 | 2532 | PBR | 148 m | 2,2 | 4,0 | -0,3 | -11,0 | -29,1 | -55,5 |   |   |   |   |   |

# SPECIAL EDITION

## 7 x 64

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|
| HMK       | 11,2 g | 650 | V [m/s] | 867  | 827  | 787  | 749  | 712  | 677  | 642  | ⊕   | 100 m | -0,7 | ⊕   | -3,3 | -10,9 | -23,4 | -41,2 | ○ | ● | ● | ● | 🕒 |
| 231 52 40 | 173    |     | E [J]   | 4209 | 3830 | 3468 | 3142 | 2839 | 2567 | 2308 | PBR | 180 m | 1,3  | 4,0 | 2,8  | -2,8  | -13,3 | -29,1 |   |   |   |   |   |

## 7 x 65 R

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|
| HMK       | 11,2 g | 600 | V [m/s] | 847  | 807  | 769  | 731  | 695  | 660  | 625  | ⊕   | 100 m | -0,6 | ⊕   | -3,5 | -11,7 | -24,9 | -43,7 | ○ | ● | ● | ● | ○ |
| 231 52 41 | 173    |     | E [J]   | 4017 | 3647 | 3312 | 2992 | 2705 | 2439 | 2188 | PBR | 175 m | 1,4  | 4,0 | 2,5  | -3,6  | -14,8 | -31,7 |   |   |   |   |   |

## .308 Win.

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|
| HMK       | 11,7 g | 650 | V [m/s] | 795  | 754  | 714  | 675  | 638  | 602  | 567  | ⊕   | 100 m | -0,3 | ⊕   | -4,5 | -14,4 | -30,3 | -53,0 | ○ | ● | ● | ● | ○ |
| 231 52 28 | 180    |     | E [J]   | 3697 | 3326 | 2982 | 2665 | 2381 | 2120 | 1881 | PBR | 163 m | 1,7  | 4,0 | 1,5  | -6,3  | -20,2 | -40,9 |   |   |   |   |   |

## .30-06

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|
| HMK       | 11,7 g | 600 | V [m/s] | 856  | 813  | 771  | 731  | 692  | 654  | 617  | ⊕   | 100 m | -0,6 | ⊕   | -3,5 | -11,6 | -24,8 | -43,7 | ○ | ● | ● | ● | 🕒 |
| 231 52 29 | 180    |     | E [J]   | 4287 | 3867 | 3477 | 3126 | 2801 | 2502 | 2227 | PBR | 176 m | 1,4  | 4,0 | 2,5  | -3,5  | -14,7 | -31,7 |   |   |   |   |   |

## .300 Win. Mag.

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |      |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|------|-------|-------|---|---|---|---|---|
| HMK       | 11,7 g | 650 | V [m/s] | 955  | 909  | 864  | 821  | 779  | 738  | 699  | ⊕   | 100 m | -1,0 | ⊕   | -2,3 | -8,2 | -18,2 | -32,6 | ○ | 🕒 | ● | ● | ● |
| 231 62 30 | 180    |     | E [J]   | 5335 | 4834 | 4367 | 3943 | 3550 | 3186 | 2858 | PBR | 197 m | 1,0  | 4,0 | 3,7  | -0,3 | -8,3  | -20,8 |   |   |   |   |   |

## 8 x 57 JS

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|---|
| HMK       | 12,1 g | 600 | V [m/s] | 832  | 786  | 742  | 699  | 657  | 617  | 578  | ⊕   | 100 m | -0.5 | ⊕   | -4.0 | -12.9 | -27.6 | -48.8 | 🕒 | ● | ● | ● | 🕒 | ○ |
| 231 62 32 | 187    |     | E [J]   | 4188 | 3738 | 3331 | 2956 | 2611 | 2303 | 2021 | PBR | 168 m | 1.5  | 4.0 | 2.0  | -5.0  | -17.7 | -36.9 |   |   |   |   |   |   |

## 8 x 57 JRS

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|---|---|---|---|---|
| HMK       | 12,1 g | 600 | V [m/s] | 785  | 740  | 697  | 656  | 616  | 577  | 540  | ⊕   | 100 m | -0,3 | ⊕   | -4,8 | -15,3 | -32,3 | -56,7 | ○ | ● | ● | ● | 🕒 |
| 231 52 42 | 187    |     | E [J]   | 3728 | 3313 | 2939 | 2604 | 2296 | 2014 | 1764 | PBR | 160 m | 1,8  | 4,0 | 1,3  | -7,2  | -22,2 | -44,6 |   |   |   |   |   |

## 9,3 x 74 R

|           |        |     |         |      |      |      |      |      |      |      |     |       |      |     |      |       |       |         |   |   |   |   |   |
|-----------|--------|-----|---------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|---------|---|---|---|---|---|
| HMK       | 16,7 g | 600 | V [m/s] | 762  | 724  | 686  | 650  | 615  | 581  | 549  | ⊕   | 100 m | -0,2 | ⊕   | -5,1 | -15,9 | -33,3 | -58,030 | 🕒 | ● | ● | ● | 🕒 |
| 231 62 31 | 258    |     | E [J]   | 4848 | 4377 | 3929 | 3528 | 3158 | 2819 | 2517 | PBR | 157 m | 1,8  | 4,0 | 0,9  | -8,0  | -23,3 | -46,0   |   |   |   |   |   |

# TARGET ELITE

| Projectile<br>Article No. | Weight<br>g<br>gr | Barrel<br>length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m | 50m | 100m | 150m | 200m | 250m | 300m | PBR * <sub>3)</sub> | 50m | 100m | 150m<br>Trajectory (cm) | 200m | 250m | 300m |
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|-----|------|------|------|------|------|---------------------|-----|------|-------------------------|------|------|------|
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|-----|------|------|------|------|------|---------------------|-----|------|-------------------------|------|------|------|

## .308 Win.

|                                         |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |
|-----------------------------------------|------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|
| Target Elite                            | 10,0 | 650   | V[m/s] | 910  | 873  | 837  | 803  | 768  | 735  | 702  | ⊕   | 100 m | -0,9 | ⊕   | -2,6 | -9,0  | -19,6 | -34,7 |
| 231 75 55                               | 154  | 0,437 | E[J]   | 4141 | 3811 | 3503 | 3224 | 2949 | 2701 | 2464 | PBR | 192 m | 1,1  | 4,0 | 3,5  | -0,9  | -9,5  | -22,6 |
| Recommended for the following distances |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |
| Target Elite                            | 10,9 | 650   | V[m/s] | 800  | 769  | 739  | 710  | 681  | 653  | 626  | ⊕   | 100 m | -0,4 | ⊕   | -4,1 | -13,0 | -27,2 | -47,2 |
| 231 75 49                               | 168  | 0,454 | E[J]   | 3488 | 3223 | 2976 | 2747 | 2527 | 2324 | 2136 | PBR | 169 m | 1,6  | 4,0 | 2,0  | -4,9  | -17,1 | -35,1 |
| Recommended for the following distances |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |
| Target Elite                            | 12,3 | 650   | V[m/s] | 750  | 724  | 699  | 674  | 650  | 626  | 603  | ⊕   | 100 m | -0,2 | ⊕   | -4,9 | -15,1 | -31,2 | -53,5 |
| 231 75 50                               | 190  | 0,550 | E[J]   | 3459 | 3224 | 3005 | 2794 | 2598 | 2410 | 2236 | PBR | 159 m | 1,8  | 4,0 | 1,1  | -7,2  | -21,3 | -41,6 |
| Recommended for the following distances |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |

# TARGET ELITE PLUS

in hand-loaded quality

| Projectile<br>Article No. | Weight<br>g<br>gr | Barrel<br>length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m | 200m | 400m | 600m | 800m | 1000m | 1200m | 200m | 400m | 600m<br>Trajectory (cm) | 800m | 1000m | 1200m |
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|------|------|------|------|-------|-------|------|------|-------------------------|------|-------|-------|
|---------------------------|-------------------|--------------------------------------------------|----------------------|----|------|------|------|------|-------|-------|------|------|-------------------------|------|-------|-------|

## .223 Rem.

|                                         |      |       |        |      |      |      |       |  |  |  |      |      |        |
|-----------------------------------------|------|-------|--------|------|------|------|-------|--|--|--|------|------|--------|
| Target Elite <b>Plus</b>                | 4,47 | 500   | V[m/s] | 855  | 663  | 505  | 382   |  |  |  | 100m | -3,9 | -111,5 |
| 231 74 61                               | 69   | 0,300 | E[J]   | 1634 | 982  | 570  | 326   |  |  |  | 300m | 18,8 | -49,3  |
| Lateral drift (cm)                      |      |       |        | 0,0  | 16,0 | 72,4 | 183,8 |  |  |  | 500m | 73,3 | 59,8   |
| Recommended for the following distances |      |       |        |      |      |      |       |  |  |  |      |      |        |

## .308 Win.

|                                         |      |       |        |      |      |      |       |       |       |  |      |       |        |             |        |         |
|-----------------------------------------|------|-------|--------|------|------|------|-------|-------|-------|--|------|-------|--------|-------------|--------|---------|
| Target Elite <b>Plus</b>                | 10,9 | 650   | V[m/s] | 805  | 676  | 555  | 447   | 362   | 311   |  | 100m | -13,1 | -107,8 | -333,6      | -764,4 | -1503,5 |
| <b>231 74 63</b>                        | 168  | 0,454 | E[J]   | 3529 | 2487 | 1675 | 1088  | 715   | 528   |  | 300m | 18,6  | -44,3  | -238,5      | -637,5 | -1344,9 |
| Lateral drift (cm)                      |      |       |        | 0,0  | 11,2 | 49,6 | 126,6 | 252,2 | 427,7 |  | 500m | 67,7  | 53,8   | -91,3       | -441,3 | -1099,6 |
| Recommended for the following distances |      |       |        |      |      |      |       |       |       |  |      |       |        | <div></div> |        |         |

## .300 Win. Mag.

|                                                     |                    |       |        |      |      |      |      |       |       |  |      |      |       |        |        |        |
|-----------------------------------------------------|--------------------|-------|--------|------|------|------|------|-------|-------|--|------|------|-------|--------|--------|--------|
| Target Elite <b>Plus</b>                            | 13,0               | 650   | V[m/s] | 870  | 762  | 661  | 568  | 484   | 407   |  | 100m | -9,8 | -82,7 | -244,6 | -534,5 | -992,4 |
| <b>231 74 62</b>                                    | 200                | 0,555 | E[J]   | 4904 | 3758 | 2833 | 2091 | 1521  | 1073  |  | 300m | 14,4 | -34,3 | -172,1 | -437,7 | -871,5 |
|                                                     | Lateral drift (cm) |       |        | 0,0  | 8,1  | 34,1 | 81,3 | 158,8 | 268,9 |  | 500m | 50,7 | 38,2  | -63,3  | -292,7 | -690,3 |
| Recommended for the following distances <div></div> |                    |       |        |      |      |      |      |       |       |  |      |      |       |        |        |        |

## .338 Lapua Mag.

|                                         |      |       |        |      |      |      |      |      |       |       |      |      |       |        |        |        |         |
|-----------------------------------------|------|-------|--------|------|------|------|------|------|-------|-------|------|------|-------|--------|--------|--------|---------|
| Target Elite <b>Plus</b>                | 16,2 | 650   | V[m/s] | 865  | 761  | 664  | 577  | 498  | 425   | 358   | 100m | -9,9 | -82,9 | -243,9 | -528,3 | -969,2 | -1640,0 |
| <b>231 74 64</b>                        | 250  | 0,595 | E[J]   | 6061 | 4690 | 3574 | 2699 | 2008 | 1464  | 1039  | 300m | 14,5 | -34,3 | -171,0 | -431,0 | -847,6 | -1494,1 |
| Lateral drift (cm)                      |      |       |        | 0,0  | 4,9  | 20,4 | 48,2 | 93,2 | 155,8 | 243,7 | 500m | 50,7 | 38,1  | -62,3  | -286,2 | -666,5 | -1276,7 |
| Recommended for the following distances |      |       |        |      |      |      |      |      |       |       |      |      |       |        |        |        |         |





Ready for success

R10 Match air rifle pellets and R50 rimfire cartridges mean maximum accuracy and reliability. Extreme care in production combined with high quality standards produce the best results. RWS – the ammunition counts.

Mario Knögler (European Champion 2006) - I demand a lot of effort from myself, in order to achieve my sporting aims. And that is why it is important for me to be able to trust an ammunition manufacturer that has the same attitude and guarantees perfection in their products.

Mario Knögler

| Projectile Article No. | Weight g gr | Barrel length mm BC-Value <sup>1)</sup> | V <sub>0</sub> E | 0m | 50m | 100m | 150m | 200m | 250m | 300m | ⊖ PBR * <sub>3)</sub> | 50m | 100m | 150m | 200m | 250m | 300m |        |
|------------------------|-------------|-----------------------------------------|------------------|----|-----|------|------|------|------|------|-----------------------|-----|------|------|------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|------------------------|-------------|-----------------------------------------|------------------|----|-----|------|------|------|------|------|-----------------------|-----|------|------|------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### .22 Hornet



|           |     |       |        |     |     |     |     |     |     |     |     |       |     |     |      |       |       |        |            |
|-----------|-----|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|------|-------|-------|--------|------------|
| TMS       | 3,0 | 600   | V[m/s] | 740 | 650 | 566 | 490 | 423 | 369 | 330 | ⊖   | 100 m | 0,4 | ⊕   | -8,2 | -26,7 | -59,1 | -109,7 | Target     |
| 211 63 75 | 46  | 0,152 | E[J]   | 821 | 634 | 481 | 360 | 268 | 204 | 163 | PBR | 136 m | 2,3 | 4,0 | -2,5 | -19,1 | -49,7 | -98,4  |            |
| VMS       | 3,0 | 600   | V[m/s] | 740 | 650 | 566 | 490 | 423 | 369 | 330 | ⊖   | 100 m | 0,4 | ⊕   | -8,2 | -26,7 | -59,1 | -109,7 | and Target |
| 211 63 83 | 46  | 0,152 | E[J]   | 821 | 634 | 481 | 360 | 268 | 204 | 163 | PBR | 136 m | 2,3 | 4,0 | -2,5 | -19,1 | -49,7 | -98,4  |            |
| MJ        | 3,0 | 600   | V[m/s] | 740 | 642 | 552 | 472 | 403 | 351 | 316 | ⊖   | 100 m | 0,5 | ⊕   | -8,7 | -28,5 | -63,6 | -118,6 | and Target |
| 211 63 67 | 46  | 0,140 | E[J]   | 821 | 618 | 457 | 334 | 244 | 185 | 150 | PBR | 134 m | 2,4 | 4,0 | -3,1 | -21,0 | -54,3 | -107,5 |            |



### .222 Rem.



|           |      |       |        |      |      |      |     |     |     |     |     |       |      |     |      |       |       |       |            |
|-----------|------|-------|--------|------|------|------|-----|-----|-----|-----|-----|-------|------|-----|------|-------|-------|-------|------------|
| TMS       | 3,24 | 600   | V[m/s] | 970  | 882  | 800  | 722 | 649 | 580 | 516 | ⊖   | 100 m | -0,9 | ⊕   | -2,9 | -10,6 | -24,2 | -45,1 | and Target |
| 211 64 05 | 50   | 0,186 | E[J]   | 1524 | 1260 | 1037 | 844 | 682 | 545 | 431 | PBR | 181 m | 1,1  | 4,0 | 3,1  | -2,6  | -14,1 | -33,0 |            |
| MJ        | 3,4  | 600   | V[m/s] | 985  | 895  | 810  | 730 | 655 | 584 | 519 | ⊖   | 100 m | -1,0 | ⊕   | -2,8 | -10,2 | -23,4 | -43,9 | Target     |
| 231 26 35 | 52   | 0,183 | E[J]   | 1649 | 1362 | 1115 | 906 | 729 | 580 | 458 | PBR | 183 m | 1,0  | 4,0 | 3,2  | -2,2  | -13,5 | -32,0 |            |



### .223 Rem.



|           |     |       |        |      |      |      |      |     |     |     |     |       |      |     |      |      |       |       |            |
|-----------|-----|-------|--------|------|------|------|------|-----|-----|-----|-----|-------|------|-----|------|------|-------|-------|------------|
| TMS       | 3,6 | 600   | V[m/s] | 990  | 910  | 834  | 762  | 694 | 629 | 568 | ⊖   | 100 m | -1,0 | ⊕   | -2,5 | -9,3 | -21,2 | -39,4 | and Target |
| 211 64 72 | 55  | 0,207 | E[J]   | 1764 | 1491 | 1252 | 1045 | 867 | 712 | 581 | PBR | 189 m | 1,0  | 4,0 | 3,5  | -1,3 | -11,2 | -27,4 |            |



### 5,6 x 50 Magnum



|           |     |       |        |      |      |      |      |     |     |     |     |       |      |     |      |       |       |       |  |
|-----------|-----|-------|--------|------|------|------|------|-----|-----|-----|-----|-------|------|-----|------|-------|-------|-------|--|
| TMS       | 4,1 | 600   | V[m/s] | 920  | 854  | 791  | 731  | 673 | 618 | 566 | ⊖   | 100 m | -0,8 | ⊕   | -3,1 | -10,8 | -24,0 | -43,7 |  |
| 211 64 99 | 63  | 0,240 | E[J]   | 1735 | 1495 | 1283 | 1095 | 929 | 783 | 657 | PBR | 180 m | 1,2  | 4,0 | 2,9  | -2,8  | -13,9 | -31,6 |  |



### 5,6 x 50 R Magnum



|           |      |       |        |      |      |      |      |     |     |     |     |       |      |     |      |       |       |       |  |
|-----------|------|-------|--------|------|------|------|------|-----|-----|-----|-----|-------|------|-----|------|-------|-------|-------|--|
| TMS       | 3,24 | 600   | V[m/s] | 1070 | 975  | 887  | 804  | 726 | 653 | 583 | ⊖   | 100 m | -1,2 | ⊕   | -1,9 | -7,7  | -18,1 | -34,3 |  |
| 211 68 47 | 50   | 0,186 | E[J]   | 1855 | 1540 | 1275 | 1047 | 854 | 691 | 551 | PBR | 201 m | 0,8  | 4,0 | 4,0  | 0,3   | -8,1  | -22,4 |  |
| TMS       | 3,6  | 600   | V[m/s] | 1000 | 919  | 843  | 770  | 702 | 637 | 575 | ⊖   | 100 m | -1,0 | ⊕   | -2,4 | -9,0  | -20,6 | -38,3 |  |
| 211 64 48 | 55   | 0,207 | E[J]   | 1800 | 1520 | 1279 | 1067 | 887 | 730 | 595 | PBR | 191 m | 1,0  | 4,0 | 3,6  | -1,0  | -10,6 | -26,3 |  |
| TMS       | 4,1  | 600   | V[m/s] | 900  | 835  | 773  | 713  | 656 | 602 | 551 | ⊖   | 100 m | -0,7 | ⊕   | -3,4 | -11,6 | -25,6 | -46,4 |  |
| 211 65 02 | 63   | 0,240 | E[J]   | 1661 | 1429 | 1225 | 1042 | 882 | 743 | 622 | PBR | 175 m | 1,3  | 4,0 | 2,6  | -3,7  | -15,6 | -34,4 |  |



### 5,6 x 52 R



|           |     |       |        |      |      |      |      |     |     |     |     |       |      |     |      |       |       |       |  |
|-----------|-----|-------|--------|------|------|------|------|-----|-----|-----|-----|-------|------|-----|------|-------|-------|-------|--|
| TMS       | 4,6 | 600   | V[m/s] | 870  | 808  | 749  | 693  | 639 | 587 | 538 | ⊖   | 100 m | -0,6 | ⊕   | -3,8 | -12,7 | -27,6 | -49,7 |  |
| 211 68 63 | 71  | 0,248 | E[J]   | 1741 | 1502 | 1290 | 1105 | 939 | 793 | 666 | PBR | 170 m | 1,4  | 4,0 | 2,2  | -4,7  | -17,6 | -37,7 |  |



### 5,6 x 57



|           |     |       |        |      |      |      |      |      |      |     |     |       |      |     |      |      |       |       |  |
|-----------|-----|-------|--------|------|------|------|------|------|------|-----|-----|-------|------|-----|------|------|-------|-------|--|
| KS        | 4,8 | 600   | V[m/s] | 970  | 906  | 846  | 788  | 732  | 677  | 622 | ⊖   | 100 m | -1,0 | ⊕   | -2,4 | -8,8 | -19,8 | -36,2 |  |
| 211 67 15 | 74  | 0,260 | E[J]   | 2258 | 1970 | 1718 | 1490 | 1286 | 1100 | 929 | PBR | 192 m | 1,0  | 4,0 | 3,5  | -0,9 | -9,9  | -24,3 |  |

Animal pictogram:  Capercaillie  Fox  Roe deer  Wild boar  Red deer  Elk  Buffalo  
Rating: ● highly suitable ○ well suited ○ suitable, with limitations / <sup>1)</sup> BC = ballistic coefficient - <sup>2)</sup> V = velocity, E = Energy - <sup>3)</sup> PBR = point-blank range  
The field of application is just a non-binding recommendation, and is not a substitute for individual experience.  
Our ballistic data are established using test barrels. The values may be different when shooting the ammunition in normal commercial guns.



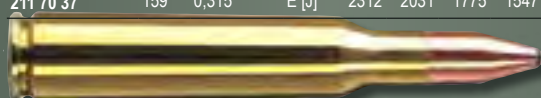
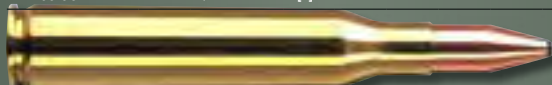
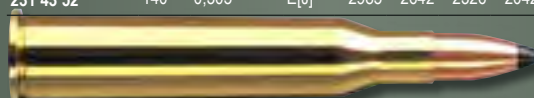
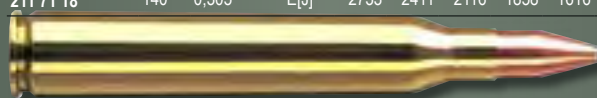
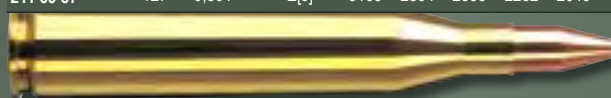


Ready for success

Barbara Lechner (World Champion 2010) - One reason why I have been using RWS ammunition for years is the enormous reliability. I can always rely on my material 100%, and it has to be like that if you want to shoot at world championship level! The high accuracy is another reason why I have stuck with the RWS brand ever since the early days. I just simply know how the ammo “ticks”, and have the situation under

control in all kinds of weather. Furthermore, I like to be able to use the RWS test firing range to select my personal favorite ammunition from the entire spectrum, that which perfectly matches my rifle. This is part of my optimized preparation for competitions.

Barbara Lechner

| Projectile<br>Article No.                                                                                                                                                                               | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value 1) | V <sub>0</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * 3) | 50m   | 100m | 150m | 200m | 250m  | 300m  |       |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------|---------------------|------|------|------|------|------|------|------|---------------|-------|------|------|------|-------|-------|-------|---------|
|  <div>.243 Win.</div>             |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| KS                                                                                                                                                                                                      | 6,2               | 600                                | V[m/s]              | 930  | 875  | 823  | 772  | 723  | 676  | 631  | ⊕             | 100 m | -0,9 | ⊕    | -2,7 | -9,6  | -21,2 | -38,1 | ● ●     |
| 211 68 12                                                                                                                                                                                               | 96                | 0,294                              | E[J]                | 2681 | 2373 | 2100 | 1848 | 1620 | 1417 | 1234 | PBR           | 187 m | 1,1  | 4,0  | 3,2  | -1,6  | -11,2 | -26,2 |         |
| TMS                                                                                                                                                                                                     | 6,5               | 600                                | V[m/s]              | 910  | 867  | 826  | 785  | 746  | 708  | 671  | ⊕             | 100 m | -0,9 | ⊕    | -2,7 | -9,5  | -20,6 | -36,6 | ● ●     |
| 211 68 71                                                                                                                                                                                               | 100               | 0,371                              | E[J]                | 2691 | 2443 | 2217 | 2003 | 1809 | 1629 | 1463 | PBR           | 188 m | 1,1  | 4,0  | 3,3  | -1,5  | -10,6 | -24,6 |         |
|  <div>6,5 x 54 Mannl. Sch.</div>  |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| TMR                                                                                                                                                                                                     | 10,3              | 450                                | V<br>[m/s]          | 670  | 628  | 587  | 548  | 512  | 477  | 446  | ⊕             | 100 m | 0,6  | ⊕    | -7,8 | -23,7 | -49,0 | -85,2 | ● ●     |
| 211 70 37                                                                                                                                                                                               | 159               | 0,315                              | E [J]               | 2312 | 2031 | 1775 | 1547 | 1350 | 1172 | 1024 | PBR           | 140 m | 2,6  | 4,0  | -1,7 | -15,7 | -39,0 | -73,2 |         |
|  <div>6,5 x 55</div>              |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| KS                                                                                                                                                                                                      | 8,2               | 650                                | V[m/s]              | 885  | 842  | 800  | 759  | 720  | 682  | 645  | ⊕             | 100 m | -0,8 | ⊕    | -3,1 | -10,4 | -22,5 | -39,8 | ● ● ○ ● |
| 211 70 02                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 3211 | 2907 | 2624 | 2362 | 2125 | 1907 | 1706 | PBR           | 182 m | 1,2  | 4,0  | 2,9  | -2,4  | -12,5 | -27,8 |         |
| DK                                                                                                                                                                                                      | 9,1               | 740                                | V[m/s]              | 870  | 820  | 771  | 724  | 679  | 635  | 593  | ⊕             | 100 m | -0,7 | ⊕    | -3,5 | -11,6 | -25,1 | -44,7 | ● ● ● ● |
| 211 69 95                                                                                                                                                                                               | 140               | 0,305                              | E[J]                | 3444 | 3059 | 2705 | 2385 | 2098 | 1835 | 1600 | PBR           | 175 m | 1,3  | 4,0  | 2,6  | -3,6  | -15,0 | -32,6 |         |
|  <div>6,5 x 57</div>              |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| TMS                                                                                                                                                                                                     | 6,0               | 600                                | V[m/s]              | 970  | 905  | 843  | 784  | 728  | 674  | 622  | ⊕             | 100 m | -1,0 | ⊕    | -2,5 | -8,9  | -20,0 | -36,5 | ● ● ○ ○ |
| 211 70 61                                                                                                                                                                                               | 93                | 0,255                              | E[J]                | 2823 | 2457 | 2132 | 1844 | 1590 | 1363 | 1161 | PBR           | 192 m | 1,0  | 4,0  | 3,5  | -0,9  | -10,0 | -24,5 |         |
| KS                                                                                                                                                                                                      | 7,0               | 600                                | V[m/s]              | 915  | 863  | 813  | 766  | 719  | 674  | 631  | ⊕             | 100 m | -0,9 | ⊕    | -2,9 | -9,9  | -21,7 | -39,0 | ● ● ● ● |
| 211 70 10                                                                                                                                                                                               | 108               | 0,308                              | E[J]                | 2930 | 2607 | 2313 | 2054 | 1809 | 1590 | 1394 | PBR           | 185 m | 1,1  | 4,0  | 3,1  | -1,9  | -11,7 | -27,0 |         |
| KS                                                                                                                                                                                                      | 8,2               | 600                                | V[m/s]              | 870  | 827  | 786  | 746  | 707  | 669  | 632  | ⊕             | 100 m | -0,7 | ⊕    | -3,3 | -11,0 | -23,5 | -41,6 | ● ● ● ● |
| 211 70 96                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 3103 | 2804 | 2533 | 2282 | 2049 | 1835 | 1638 | PBR           | 179 m | 1,3  | 4,0  | 2,8  | -2,9  | -13,5 | -29,5 |         |
| DK                                                                                                                                                                                                      | 9,1               | 600                                | V[m/s]              | 810  | 762  | 715  | 670  | 627  | 585  | 545  | ⊕             | 100 m | -0,4 | ⊕    | -4,4 | -14,3 | -30,5 | -53,8 | ● ● ● ● |
| 231 43 52                                                                                                                                                                                               | 140               | 0,305                              | E[J]                | 2985 | 2642 | 2326 | 2042 | 1789 | 1557 | 1351 | PBR           | 164 m | 1,6  | 4,0  | 1,6  | -6,3  | -20,4 | -41,8 |         |
|  <div>6,5 x 57 R</div>        |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| TMS                                                                                                                                                                                                     | 6,0               | 600                                | V[m/s]              | 960  | 896  | 834  | 776  | 720  | 666  | 614  | ⊕             | 100 m | -1,0 | ⊕    | -2,6 | -9,2  | -20,6 | -37,6 | ● ● ○ ○ |
| 211 71 34                                                                                                                                                                                               | 93                | 0,255                              | E[J]                | 2765 | 2408 | 2087 | 1807 | 1555 | 1331 | 1131 | PBR           | 189 m | 1,0  | 4,0  | 3,4  | -1,3  | -10,7 | -25,7 |         |
| KS                                                                                                                                                                                                      | 7,0               | 600                                | V[m/s]              | 870  | 820  | 772  | 725  | 680  | 637  | 595  | ⊕             | 100 m | -0,7 | ⊕    | -3,4 | -11,6 | -25,0 | -44,5 | ● ● ● ○ |
| 211 70 29                                                                                                                                                                                               | 108               | 0,308                              | E[J]                | 2649 | 2353 | 2086 | 1840 | 1618 | 1420 | 1239 | PBR           | 176 m | 1,3  | 4,0  | 2,6  | -3,5  | -14,9 | -32,4 |         |
| KS                                                                                                                                                                                                      | 8,2               | 600                                | V[m/s]              | 835  | 793  | 753  | 714  | 676  | 639  | 603  | ⊕             | 100 m | -0,5 | ⊕    | -3,8 | -12,4 | -26,4 | -46,4 | ● ● ● ○ |
| 211 71 50                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 2859 | 2578 | 2325 | 2090 | 1874 | 1674 | 1491 | PBR           | 172 m | 1,5  | 4,0  | 2,3  | -4,3  | -16,3 | -34,3 |         |
| DK                                                                                                                                                                                                      | 9,1               | 600                                | V[m/s]              | 775  | 728  | 682  | 639  | 596  | 556  | 518  | ⊕             | 100 m | -0,2 | ⊕    | -5,1 | -16,2 | -34,3 | -60,3 | ● ● ● ○ |
| 211 71 18                                                                                                                                                                                               | 140               | 0,305                              | E[J]                | 2733 | 2411 | 2116 | 1858 | 1616 | 1407 | 1221 | PBR           | 157 m | 1,8  | 4,0  | 0,9  | -8,2  | -24,2 | -48,2 |         |
|  <div>6,5 x 65 RWS</div>      |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| KS                                                                                                                                                                                                      | 8,2               | 650                                | V[m/s]              | 900  | 856  | 814  | 773  | 733  | 694  | 657  | ⊕             | 100 m | -0,8 | ⊕    | -2,9 | -9,9  | -21,4 | -38,1 | ○ ● ● ● |
| 211 69 79                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 3321 | 3004 | 2717 | 2450 | 2203 | 1975 | 1770 | PBR           | 185 m | 1,2  | 4,0  | 3,1  | -1,9  | -11,5 | -26,2 |         |
|  <div>6,5 x 65 R RWS</div>    |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| KS                                                                                                                                                                                                      | 8,2               | 650                                | V[ <u>s</u> ]       | 870  | 827  | 786  | 746  | 707  | 669  | 632  | ⊕             | 100 m | -0,7 | ⊕    | -3,3 | -11,0 | -23,5 | -41,6 | ○ ● ● ● |
| 211 69 87                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 3103 | 2804 | 2533 | 2282 | 2049 | 1835 | 1638 | PBR           | 180 m | 1,3  | 4,0  | 2,8  | -2,9  | -13,5 | -29,5 |         |
|  <div>6,5 x 68</div>          |                   |                                    |                     |      |      |      |      |      |      |      |               |       |      |      |      |       |       |       |         |
| TMS                                                                                                                                                                                                     | 6,0               | 650                                | V[m/s]              | 1150 | 1076 | 1005 | 939  | 876  | 815  | 758  | ⊕             | 100 m | -1,4 | ⊕    | -1,0 | -4,8  | -11,8 | -22,5 | ○ ● ● ● |
| 211 71 85                                                                                                                                                                                               | 93                | 0,255                              | E[J]                | 3968 | 3473 | 3030 | 2645 | 2302 | 1993 | 1724 | PBR           | 221 m | 0,2  | 3,3  | 4,0  | 1,9   | -3,5  | -12,5 |         |
| KS                                                                                                                                                                                                      | 8,2               | 650                                | V[m/s]              | 960  | 914  | 870  | 827  | 786  | 746  | 707  | ⊕             | 100 m | -1,0 | ⊕    | -2,2 | -8,0  | -17,8 | -32,0 | ○ ● ● ● |
| 211 72 15                                                                                                                                                                                               | 127               | 0,361                              | E[J]                | 3779 | 3425 | 3103 | 2804 | 2533 | 2282 | 2049 | PBR           | 197 m | 0,9  | 4,0  | 3,6  | -0,3  | -8,1  | -20,4 |         |



# Rottweil®

WAIDMANNNSHEIL



Quality is our No. 1 aim

For over a century Rottweil® shotgun cartridges have been a product of the highest manufacturing skills and quality components. Rottweil® Waidmannsheil shotgun cartridges owe their reputation and renowned performance characteristics to a matched combination of cases, powder, primer, pellets

and wads matched with experienced production techniques. Rottweil® Waidmannsheil cartridges are also checked for conformity with the very highest levels of quality before and after every production batch.

| Projectile<br>Article No.                                                                                                                                                                         | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sub>3)</sub> | 50m   | 100m | 150m | 200m | 250m  | 300m  |        |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|----------------------|------|------|------|------|------|------|------|--------------------------|-------|------|------|------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|  <b>.270 Win.</b>           |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| TMS                                                                                                                                                                                               | 8,4               | 650                                           | V[m/s]               | 965  | 914  | 865  | 818  | 772  | 728  | 686  | ⊕                        | 100 m | -1,0 | ⊕    | -2,3 | -8,2  | -18,2 | -32,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 84 40                                                                                                                                                                                         | 130               | 0,325                                         | E[J]                 | 3911 | 3509 | 3143 | 2810 | 2503 | 2226 | 1977 | PBR                      | 196 m | 0,9  | 4,0  | 3,6  | -0,4  | -8,5  | -21,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| HMK                                                                                                                                                                                               | 8,4               | 650                                           | V[m/s]               | 955  | 895  | 837  | 782  | 729  | 678  | 630  | ⊕                        | 100 m | -1,0 | ⊕    | -2,5 | -9,1  | -20,3 | -36,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 72 90                                                                                                                                                                                         | 130               | 0,272                                         | E[J]                 | 3831 | 3364 | 2942 | 2568 | 2232 | 1931 | 1667 | PBR                      | 190 m | 1,0  | 4,0  | 3,4  | -1,2  | -10,4 | -25,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| KS                                                                                                                                                                                                | 9,7               | 650                                           | V[m/s]               | 895  | 849  | 805  | 763  | 721  | 681  | 643  | ⊕                        | 100 m | -0,8 | ⊕    | -3,0 | -10,2 | -22,1 | -39,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 72 82                                                                                                                                                                                         | 150               | 0,345                                         | E[J]                 | 3885 | 3496 | 3143 | 2824 | 2521 | 2249 | 2005 | PBR                      | 183 m | 1,2  | 4,0  | 3,0  | -2,2  | -12,2 | -27,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| EVO                                                                                                                                                                                               | 10,0              | 650                                           | V[m/s]               | 840  | 795  | 751  | 709  | 668  | 629  | 591  | ⊕                        | 100 m | -0,6 | ⊕    | -3,8 | -12,5 | -26,7 | -47,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 231 59 72                                                                                                                                                                                         | 154               | 0,335                                         | E[J]                 | 3528 | 3160 | 2820 | 2513 | 2231 | 1978 | 1746 | PBR                      | 170 m | 1,4  | 4,0  | 2,1  | -4,6  | -16,8 | -35,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|  <b>.270 WSM</b>            |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| KS                                                                                                                                                                                                | 9,7               | 600                                           | [m/s]                | 955  | 907  | 861  | 817  | 774  | 732  | 692  | ⊕                        | 100 m | -1,0 | ⊕    | -2,3 | -8,3  | -18,4 | -33,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 231 57 50                                                                                                                                                                                         | 150               | 0,345                                         | [J]                  | 4423 | 3990 | 3595 | 3237 | 2906 | 2599 | 2322 | PBR                      | 195 m | 0,9  | 4,0  | 3,5  | -0,5  | -8,7  | -21,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| EVO                                                                                                                                                                                               | 10,0              | 600                                           | [m/s]                | 915  | 867  | 821  | 777  | 734  | 692  | 652  | ⊕                        | 100 m | -0,9 | ⊕    | -2,8 | -9,6  | -21,0 | -37,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 231 59 71                                                                                                                                                                                         | 154               | 0,335                                         | [J]                  | 4186 | 3758 | 3370 | 3019 | 2694 | 2394 | 2126 | PBR                      | 186 m | 1,1  | 4,0  | 3,1  | -1,8  | -11,2 | -25,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|  <b>7 x 57</b>              |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| KS                                                                                                                                                                                                | 8,0               | 600                                           | V[m/s]               | 900  | 846  | 794  | 744  | 695  | 649  | 604  | ⊕                        | 100 m | -0,8 | ⊕    | -3,1 | -10,7 | -23,3 | -41,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 73 39                                                                                                                                                                                         | 123               | 0,290                                         | E[J]                 | 3240 | 2863 | 2522 | 2214 | 1932 | 1685 | 1459 | PBR                      | 181 m | 1,2  | 4,0  | 2,9  | -2,6  | -13,3 | -29,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| ID Classic                                                                                                                                                                                        | 10,5              | 600                                           | V[m/s]               | 800  | 755  | 711  | 669  | 629  | 589  | 551  | ⊕                        | 100 m | -0,3 | ⊕    | -4,5 | -14,5 | -30,7 | -54,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 85 13                                                                                                                                                                                         | 162               | 0,325                                         | E[J]                 | 3360 | 2993 | 2654 | 2350 | 2077 | 1821 | 1594 | PBR                      | 163 m | 1,7  | 4,0  | 1,5  | -6,5  | -20,7 | -42,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|  <b>7 x 57 R</b>          |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| KS                                                                                                                                                                                                | 8,0               | 600                                           | V[m/s]               | 890  | 836  | 785  | 735  | 687  | 641  | 596  | ⊕                        | 100 m | -0,7 | ⊕    | -3,2 | -11,0 | -24,1 | -43,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 74 44                                                                                                                                                                                         | 123               | 0,290                                         | E[J]                 | 3168 | 2796 | 2465 | 2161 | 1888 | 1644 | 1421 | PBR                      | 179 m | 1,3  | 4,0  | 2,8  | -3,0  | -14,0 | -30,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| TMR                                                                                                                                                                                               | 9,0               | 600                                           | V[m/s]               | 780  | 724  | 670  | 618  | 569  | 522  | 479  | ⊕                        | 100 m | -0,2 | ⊕    | -5,3 | -17,1 | -36,5 | -65,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 74 87                                                                                                                                                                                         | 139               | 0,255                                         | E[J]                 | 2738 | 2359 | 2020 | 1719 | 1457 | 1226 | 1032 | PBR                      | 154 m | 1,9  | 4,0  | 0,7  | -9,1  | -26,5 | -53,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| KS                                                                                                                                                                                                | 10,5              | 600                                           | V[m/s]               | 780  | 742  | 705  | 669  | 635  | 601  | 568  | ⊕                        | 100 m | -0,3 | ⊕    | -4,7 | -14,8 | -31,1 | -54,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 85 48                                                                                                                                                                                         | 162               | 0,381                                         | E[J]                 | 3194 | 2890 | 2609 | 2350 | 2117 | 1896 | 1694 | PBR                      | 161 m | 1,7  | 4,0  | 1,3  | -6,9  | -21,2 | -42,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| ID Classic                                                                                                                                                                                        | 10,5              | 600                                           | V[m/s]               | 780  | 736  | 693  | 651  | 611  | 572  | 536  | ⊕                        | 100 m | -0,2 | ⊕    | -4,9 | -15,6 | -32,9 | -57,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 85 64                                                                                                                                                                                         | 162               | 0,325                                         | E[J]                 | 3194 | 2844 | 2521 | 2225 | 1960 | 1718 | 1508 | PBR                      | 159 m | 1,8  | 4,0  | 1,2  | -7,5  | -22,8 | -45,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| HMK                                                                                                                                                                                               | 11,2              | 600                                           | V[m/s]               | 750  | 713  | 677  | 642  | 609  | 576  | 544  | ⊕                        | 100 m | -0,1 | ⊕    | -5,3 | -16,5 | -34,4 | -59,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 74 36                                                                                                                                                                                         | 173               | 0,383                                         | E[J]                 | 3150 | 2847 | 2567 | 2308 | 2077 | 1858 | 1657 | PBR                      | 156 m | 1,9  | 4,0  | 0,8  | -8,5  | -24,3 | -47,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| ID Classic                                                                                                                                                                                        | 11,5              | 600                                           | V[m/s]               | 750  | 710  | 672  | 635  | 598  | 563  | 530  | ⊕                        | 100 m | -0,1 | ⊕    | -5,4 | -16,8 | -35,2 | -61,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 85 72                                                                                                                                                                                         | 177               | 0,356                                         | E[J]                 | 3234 | 2899 | 2597 | 2319 | 2056 | 1823 | 1615 | PBR                      | 155 m | 2,0  | 4,0  | 0,7  | -8,8  | -25,1 | -49,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|  <b>7 mm Rem. Mag.</b>  |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| TMS                                                                                                                                                                                               | 9,4               | 650                                           | V[m/s]               | 940  | 893  | 848  | 804  | 761  | 720  | 680  | ⊕                        | 100 m | -1,0 | ⊕    | -2,5 | -8,7  | -19,2 | -34,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 86 29                                                                                                                                                                                         | 145               | 0,346                                         | E[J]                 | 4153 | 3748 | 3380 | 3038 | 2722 | 2436 | 2173 | PBR                      | 194 m | 1,1  | 4,0  | 3,6  | -0,7  | -9,1  | -22,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| EVO                                                                                                                                                                                               | 10,3              | 650                                           | V[m/s]               | 895  | 855  | 817  | 780  | 743  | 708  | 674  | ⊕                        | 100 m | -0,8 | ⊕    | -2,9 | -9,7  | -21,1 | -37,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 231 65 30                                                                                                                                                                                         | 159               | 0,399                                         | E[J]                 | 4125 | 3765 | 3438 | 3133 | 2843 | 2582 | 2340 | PBR                      | 185 m | 1,1  | 4,0  | 3,0  | -1,9  | -11,3 | -25,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| KS                                                                                                                                                                                                | 10,5              | 650                                           | V[m/s]               | 900  | 859  | 818  | 779  | 741  | 704  | 668  | ⊕                        | 100 m | -0,8 | ⊕    | -2,8 | -9,7  | -21,1 | -37,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 85 05                                                                                                                                                                                         | 162               | 0,381                                         | E[J]                 | 4253 | 3874 | 3513 | 3186 | 2883 | 2602 | 2343 | PBR                      | 186 m | 1,2  | 4,0  | 3,1  | -1,8  | -11,1 | -25,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| ID Classic                                                                                                                                                                                        | 11,5              | 650                                           | V[m/s]               | 890  | 846  | 803  | 762  | 722  | 683  | 646  | ⊕                        | 100 m | -0,8 | ⊕    | -3,0 | -10,3 | -22,2 | -39,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 84 91                                                                                                                                                                                         | 177               | 0,356                                         | E[J]                 | 4555 | 4115 | 3708 | 3339 | 2997 | 2682 | 2400 | PBR                      | 183 m | 1,2  | 4,0  | 3,0  | -2,2  | -12,2 | -27,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|  <b>.280 Rem.</b>       |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| ID Classic                                                                                                                                                                                        | 10,5              | 650                                           | V[m/s]               | 850  | 803  | 758  | 714  | 672  | 631  | 592  | ⊕                        | 100 m | -0,6 | ⊕    | -3,7 | -12,2 | -26,1 | -46,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ ● ● ● |
| 211 74 01                                                                                                                                                                                         | 162               | 0,325                                         | E[J]                 | 3793 | 3385 | 3016 | 2676 | 2371 | 2090 | 1840 | PBR                      | 173 m | 1,4  | 4,0  | 2,4  | -4,1  | -16,0 | -34,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |

Animal pictogram:  Capercailie  Fox  Roe deer  Wild boar  Red deer  Elk  Buffalo

Rating: ● highly suitable ○ well suited ○ suitable, with limitations / <sup>1)</sup> BC = ballistic coefficient - <sup>2)</sup> V = velocity, E = Energy - <sup>3)</sup> PBR = point-blank range

The field of application is just a non-binding recommendation, and is not a substitute for individual experience.

Our ballistic data are established using test barrels. The values may be different when shooting the ammunition in normal commercial guns.



| Projectile<br>Article No.                                                                                                                                                    | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value <sub>1)</sub> | V <sub>2)</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sub>3)</sub> | 50m   | 100m | 150m | 200m | 250m  | 300m  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|----------------------|------|------|------|------|------|------|------|--------------------------|-------|------|------|------|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|  7 x 64  |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| KS                                                                                                                                                                           | 8,0               | 650                                           | V[m/s]               | 970  | 913  | 858  | 806  | 755  | 706  | 659  | ⊕                        | 100 m | -1,0 | ⊕    | -2,3 | -8,4  | -18,8 | -34,2                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |  |
| 211 75 68                                                                                                                                                                    | 123               | 0,290                                         | E[J]                 | 3764 | 3334 | 2945 | 2599 | 2280 | 1994 | 1737 | PBR                      | 196 m | 1,0  | 4,0  | 3,7  | -0,4  | -8,8  | -22,1                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| DK                                                                                                                                                                           | 10,0              | 650                                           | V[m/s]               | 885  | 839  | 794  | 751  | 709  | 669  | 630  | ⊕                        | 100 m | -0,8 | ⊕    | -3,1 | -10,6 | -23,0 | -40,9                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |  |
| 211 85 56                                                                                                                                                                    | 154               | 0,338                                         | E[J]                 | 3916 | 3520 | 3152 | 2820 | 2513 | 2238 | 1985 | PBR                      | 181 m | 1,3  | 4,0  | 2,9  | -2,6  | -13,0 | -28,8                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| EVO                                                                                                                                                                          | 10,3              | 650                                           | V[m/s]               | 880  | 841  | 803  | 766  | 730  | 695  | 661  | ⊕                        | 100 m | -0,8 | ⊕    | -3,0 | -10,3 | -22,1 | -39,0                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |  |
| 231 54 31                                                                                                                                                                    | 159               | 0,399                                         | E[J]                 | 3988 | 3642 | 3321 | 3022 | 2744 | 2488 | 2250 | PBR                      | 182 m | 1,2  | 4,0  | 2,9  | -2,4  | -12,2 | -27,2                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| KS                                                                                                                                                                           | 10,5              | 650                                           | V[m/s]               | 880  | 839  | 800  | 761  | 724  | 687  | 652  | ⊕                        | 100 m | -0,8 | ⊕    | -3,1 | -10,4 | -22,4 | -39,6                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |  |
| 211 84 75                                                                                                                                                                    | 162               | 0,381                                         | E[J]                 | 4066 | 3696 | 3360 | 3040 | 2752 | 2478 | 2232 | PBR                      | 182 m | 1,2  | 4,0  | 2,9  | -2,4  | -12,4 | -27,7                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| ID Classic                                                                                                                                                                   | 10,5              | 650                                           | V[m/s]               | 880  | 832  | 786  | 742  | 698  | 657  | 616  | ⊕                        | 100 m | -0,7 | ⊕    | -3,2 | -11,0 | -23,7 | -42,2                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |  |
| 211 85 80                                                                                                                                                                    | 162               | 0,325                                         | E[J]                 | 4066 | 3634 | 3243 | 2890 | 2558 | 2266 | 1992 | PBR                      | 179 m | 1,3  | 4,0  | 2,8  | -2,9  | -13,7 | -30,2                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| HMK                                                                                                                                                                          | 11,2              | 650                                           | V[m/s]               | 850  | 810  | 772  | 734  | 698  | 662  | 628  | ⊕                        | 100 m | -0,6 | ⊕    | -3,5 | -11,5 | -24,6 | -43,3                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |  |
| 211 75 17                                                                                                                                                                    | 173               | 0,383                                         | E[J]                 | 4046 | 3674 | 3338 | 3017 | 2728 | 2454 | 2209 | PBR                      | 176 m | 1,4  | 4,0  | 2,6  | -3,5  | -14,5 | -31,2                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| TMR                                                                                                                                                                          | 11,2              | 650                                           | V[m/s]               | 800  | 751  | 705  | 659  | 616  | 574  | 534  | ⊕                        | 100 m | -0,3 | ⊕    | -4,6 | -14,9 | -31,7 | -55,9                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |  |
| 211 75 41                                                                                                                                                                    | 173               | 0,301                                         | E[J]                 | 3584 | 3158 | 2783 | 2432 | 2125 | 1845 | 1597 | PBR                      | 161 m | 1,7  | 4,0  | 1,4  | -6,9  | -21,7 | -43,9                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| ID Classic                                                                                                                                                                   | 11,5              | 650                                           | V[m/s]               | 850  | 807  | 766  | 726  | 687  | 649  | 612  | ⊕                        | 100 m | -0,6 | ⊕    | -3,6 | -11,8 | -25,2 | -44,5                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |  |
| 211 85 99                                                                                                                                                                    | 177               | 0,356                                         | E[J]                 | 4154 | 3745 | 3374 | 3031 | 2714 | 2422 | 2154 | PBR                      | 175 m | 1,4  | 4,0  | 2,5  | -3,7  | -15,1 | -32,4                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |

|                                                                                                                                                                                                    |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|-------|
| <div><div>7 x 65 R</div></div> |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |       |
| KS                                                                                                                                                                                                 | 8,0  | 600   | V[m/s] | 930  | 875  | 821  | 770  | 721  | 674  | 628  | ⊕   | 100 m | -0,9 | ⊕   | -2,8 | -9,6  | -21,3 | -38,3 | ○●●●● |
| 211 76 30                                                                                                                                                                                          | 123  | 0,290 | E[J]   | 3460 | 3063 | 2696 | 2372 | 2079 | 1817 | 1578 | PBR | 186 m | 1,1  | 4,0 | 3,2  | -1,7  | -11,4 | -26,5 |       |
| DK                                                                                                                                                                                                 | 10,0 | 600   | V[m/s] | 865  | 820  | 776  | 733  | 692  | 652  | 613  | ⊕   | 100 m | -0,7 | ⊕   | -3,4 | -11,4 | -24,5 | -43,4 | ○●●●○ |
| 212 33 63                                                                                                                                                                                          | 154  | 0,338 | E[J]   | 3741 | 3362 | 3011 | 2686 | 2394 | 2126 | 1879 | PBR | 177 m | 1,3  | 4,0 | 2,6  | -3,3  | -14,4 | -31,3 |       |
| EVO                                                                                                                                                                                                | 10,3 | 650   | V[m/s] | 865  | 826  | 789  | 752  | 717  | 682  | 649  | ⊕   | 100 m | -0,7 | ⊕   | -3,2 | -10,8 | -23,2 | -40,8 | ○●●●● |
| 231 54 32                                                                                                                                                                                          | 159  | 0,399 | E[J]   | 3853 | 3514 | 3206 | 2912 | 2648 | 2395 | 2169 | PBR | 180 m | 1,3  | 4,0 | 2,8  | -2,8  | -13,2 | -28,8 |       |
| KS                                                                                                                                                                                                 | 10,5 | 600   | V[m/s] | 860  | 820  | 781  | 743  | 706  | 670  | 635  | ⊕   | 100 m | -0,7 | ⊕   | -3,4 | -11,2 | -23,9 | -42,1 | ○●●●○ |
| 211 84 83                                                                                                                                                                                          | 162  | 0,381 | E[J]   | 3883 | 3530 | 3202 | 2898 | 2617 | 2357 | 2117 | PBR | 178 m | 1,3  | 4,0 | 2,7  | -3,1  | -13,8 | -30,0 |       |
| ID Classic                                                                                                                                                                                         | 10,5 | 600   | V[m/s] | 870  | 823  | 777  | 733  | 690  | 648  | 608  | ⊕   | 100 m | -0,7 | ⊕   | -3,4 | -11,3 | -24,5 | -43,5 | ○●●●○ |
| 211 86 02                                                                                                                                                                                          | 162  | 0,325 | E[J]   | 3974 | 3556 | 3170 | 2821 | 2500 | 2204 | 1941 | PBR | 177 m | 1,3  | 4,0 | 2,7  | -3,3  | -14,4 | -31,3 |       |
| HMK                                                                                                                                                                                                | 11,2 | 600   | V[m/s] | 830  | 791  | 753  | 716  | 680  | 645  | 611  | ⊕   | 100 m | -0,5 | ⊕   | -3,8 | -12,4 | -26,3 | -46,1 | ○●●●○ |
| 211 75 92                                                                                                                                                                                          | 173  | 0,383 | E[J]   | 3858 | 3504 | 3175 | 2871 | 2589 | 2330 | 2091 | PBR | 172 m | 1,5  | 4,0 | 2,3  | -4,3  | -16,2 | -34,0 |       |
| TMR                                                                                                                                                                                                | 11,2 | 600   | V[m/s] | 770  | 722  | 677  | 633  | 590  | 549  | 511  | ⊕   | 100 m | -0,1 | ⊕   | -5,2 | -16,6 | -35,0 | -61,6 | ○●●●○ |
| 211 76 22                                                                                                                                                                                          | 173  | 0,301 | E[J]   | 3320 | 2919 | 2567 | 2244 | 1949 | 1688 | 1462 | PBR | 156 m | 1,9  | 4,0 | 0,8  | -8,5  | -24,9 | -49,5 |       |
| ID Classic                                                                                                                                                                                         | 11,5 | 600   | V[m/s] | 820  | 778  | 738  | 698  | 660  | 623  | 587  | ⊕   | 100 m | -0,5 | ⊕   | -4,0 | -13,1 | -27,8 | -48,9 | ○●●●○ |
| 211 86 10                                                                                                                                                                                          | 177  | 0,356 | E[J]   | 3866 | 3480 | 3132 | 2801 | 2505 | 2232 | 1981 | PBR | 168 m | 1,5  | 4,0 | 2,0  | -5,1  | -17,9 | -36,9 |       |

|                                                                                                                                                                                                         |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|------|------|------|------|------|------|------|-----|-------|------|-----|------|-------|-------|-------|--------|
| <div><div>.308 Win.</div></div> |      |       |        |      |      |      |      |      |      |      |     |       |      |     |      |       |       |       |        |
| KS                                                                                                                                                                                                      | 9,7  | 600   | V[m/s] | 870  | 818  | 769  | 721  | 675  | 630  | 587  | ⊕   | 100 m | -0,7 | ⊕   | -3,5 | -11,7 | -25,3 | -45,2 | ○●●●●  |
| 211 77 03                                                                                                                                                                                               | 150  | 0,298 | E[J]   | 3671 | 3245 | 2868 | 2521 | 2210 | 1925 | 1671 | PBR | 175 m | 1,4  | 4,0 | 2,6  | -3,6  | -15,2 | -33,0 |        |
| ID Classic                                                                                                                                                                                              | 9,7  | 600   | V[m/s] | 870  | 819  | 770  | 723  | 678  | 634  | 591  | ⊕   | 100 m | -0,7 | ⊕   | -3,5 | -11,7 | -25,2 | -44,8 | ○●●●●  |
| 211 77 11                                                                                                                                                                                               | 150  | 0,303 | E[J]   | 3671 | 3253 | 2876 | 2535 | 2229 | 1949 | 1694 | PBR | 176 m | 1,4  | 4,0 | 2,6  | -3,6  | -15,1 | -32,7 |        |
| BIONIC YELLOW                                                                                                                                                                                           | 10,0 | 600   | V[m/s] | 815  | 753  | 695  | 638  | 585  | 534  | 487  | ⊕   | 100 m | -0,3 | ⊕   | -4,8 | -15,6 | -33,6 | -60,3 | ○●●●●  |
| 231 58 30                                                                                                                                                                                               | 154  | 0,239 | E[J]   | 3321 | 2835 | 2415 | 2035 | 1711 | 1426 | 1186 | PBR | 160 m | 1,7  | 4,0 | 1,3  | -7,5  | -23,5 | -48,2 |        |
| DK                                                                                                                                                                                                      | 10,7 | 600   | V[m/s] | 800  | 750  | 702  | 656  | 611  | 569  | 528  | ⊕   | 100 m | -0,3 | ⊕   | -4,7 | -15,1 | -32,1 | -56,6 | ○●●●●  |
| 211 79 08                                                                                                                                                                                               | 165  | 0,293 | E[J]   | 3424 | 3009 | 2637 | 2302 | 1997 | 1732 | 1491 | PBR | 160 m | 1,7  | 4,0 | 1,3  | -7,1  | -22,2 | -44,8 |        |
| KS                                                                                                                                                                                                      | 10,7 | 600   | V[m/s] | 800  | 756  | 712  | 671  | 631  | 592  | 554  | ⊕   | 100 m | -0,3 | ⊕   | -4,5 | -14,5 | -30,6 | -53,7 | ○●●●●  |
| 211 77 89                                                                                                                                                                                               | 165  | 0,329 | E[J]   | 3424 | 3058 | 2712 | 2409 | 2130 | 1875 | 1642 | PBR | 163 m | 1,7  | 4,0 | 1,6  | -6,4  | -20,5 | -41,6 |        |
| HMK                                                                                                                                                                                                     | 11,7 | 600   | V[m/s] | 780  | 739  | 700  | 662  | 625  | 589  | 555  | ⊕   | 100 m | -0,3 | ⊕   | -4,8 | -15,1 | -31,8 | -55,5 | ○●●●●○ |
| 211 76 65                                                                                                                                                                                               | 180  | 0,356 | E[J]   | 3559 | 3195 | 2867 | 2564 | 2285 | 2029 | 1802 | PBR | 160 m | 1,7  | 4,0 | 1,2  | -7,2  | -21,8 | -43,6 |        |
| UNI Classic                                                                                                                                                                                             | 11,7 | 600   | V[m/s] | 780  | 739  | 699  | 660  | 622  | 586  | 551  | ⊕   | 100 m | -0,3 | ⊕   | -4,8 | -15,2 | -32,0 | -55,9 | ○●●●●○ |
| 211 91 96                                                                                                                                                                                               | 180  | 0,350 | E[J]   | 3559 | 3195 | 2858 | 2548 | 2263 | 2009 | 1776 | PBR | 160 m | 1,8  | 4,0 | 1,3  | -7,1  | -21,9 | -43,8 |        |
| EVO                                                                                                                                                                                                     | 11,9 | 600   | V[m/s] | 775  | 736  | 697  | 660  | 625  | 590  | 557  | ⊕   | 100 m | -0,2 | ⊕   | -4,8 | -15,3 | -32,0 | -55,9 | ○●●●●● |
| 231 54 34                                                                                                                                                                                               | 184  | 0,366 | E[J]   | 3574 | 3223 | 2891 | 2592 | 2324 | 2071 | 1846 | PBR | 159 m | 1,8  | 4,0 | 1,1  | -7,4  | -22,1 | -43,9 |        |

| Projectile<br>Article No.                                                                                                                                                        | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sub>3)</sub> | 50m   | 100m | 150m | 200m | 250m  | 300m  |  |  |  |  |  |  |  |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|----------------------|------|------|------|------|------|------|------|--------------------------|-------|------|------|------|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
|  .30 - 06  |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| KS                                                                                                                                                                               | 9,7               | 600                                           | V[m/s]               | 910  | 857  | 806  | 757  | 709  | 663  | 619  | ⊕                        | 100 m | -0,8 | ⊕    | -3,0 | -10,2 | -22,3 | -40,1                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |
| 211 77 70                                                                                                                                                                        | 150               | 0,298                                         | E[J]                 | 4016 | 3562 | 3151 | 2779 | 2438 | 2132 | 1858 | PBR                      | 183 m | 1,2  | 4,0  | 3,0  | -2,3  | -12,4 | -28,2                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| ID Classic                                                                                                                                                                       | 9,7               | 600                                           | V[m/s]               | 910  | 858  | 807  | 759  | 712  | 667  | 623  | ⊕                        | 100 m | -0,8 | ⊕    | -2,9 | -10,1 | -22,2 | -39,8                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |   |
| 211 77 97                                                                                                                                                                        | 150               | 0,303                                         | E[J]                 | 4016 | 3570 | 3159 | 2794 | 2459 | 2158 | 1882 | PBR                      | 184 m | 1,2  | 4,0  | 3,1  | -2,1  | -12,2 | -27,8                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| BIONIC YELLOW                                                                                                                                                                    | 10,0              | 600                                           | V[m/s]               | 885  | 820  | 759  | 699  | 643  | 589  | 538  | ⊕                        | 100 m | -0,7 | ⊕    | -3,6 | -12,2 | -26,8 | -48,6                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |   |
| 231 57 81                                                                                                                                                                        | 154               | 0,239                                         | E[J]                 | 3916 | 3362 | 2880 | 2443 | 2067 | 1735 | 1447 | PBR                      | 173 m | 1,4  | 4,0  | 2,5  | -4,2  | -16,7 | -36,4                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| KS                                                                                                                                                                               | 10,7              | 600                                           | V[m/s]               | 870  | 823  | 778  | 734  | 692  | 651  | 611  | ⊕                        | 100 m | -0,7 | ⊕    | -3,4 | -11,3 | -24,4 | -43,2                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   | ○ |
| 211 78 00                                                                                                                                                                        | 165               | 0,329                                         | E[J]                 | 4049 | 3624 | 3238 | 2882 | 2562 | 2267 | 1997 | PBR                      | 177 m | 1,3  | 4,0  | 2,7  | -3,2  | -14,3 | -31,1                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| DK                                                                                                                                                                               | 10,7              | 600                                           | V[m/s]               | 870  | 818  | 767  | 718  | 671  | 626  | 583  | ⊕                        | 100 m | -0,7 | ⊕    | -3,5 | -11,8 | -25,6 | -45,6                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   |   |
| 211 78 51                                                                                                                                                                        | 165               | 0,293                                         | E[J]                 | 4049 | 3580 | 3147 | 2758 | 2409 | 2097 | 1818 | PBR                      | 175 m | 1,4  | 4,0  | 2,5  | -3,7  | -15,4 | -33,5                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| HMK                                                                                                                                                                              | 11,7              | 600                                           | V[m/s]               | 840  | 798  | 757  | 717  | 678  | 640  | 604  | ⊕                        | 100 m | -0,6 | ⊕    | -3,7 | -12,2 | -26,1 | -45,9                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |
| 211 77 38                                                                                                                                                                        | 180               | 0,356                                         | E[J]                 | 4128 | 3725 | 3352 | 3007 | 2689 | 2396 | 2134 | PBR                      | 172 m | 1,4  | 4,0  | 2,3  | -4,2  | -16,0 | -33,8                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| UNI Classic                                                                                                                                                                      | 11,7              | 600                                           | V[m/s]               | 840  | 797  | 755  | 715  | 675  | 637  | 600  | ⊕                        | 100 m | -0,6 | ⊕    | -3,7 | -12,3 | -26,2 | -46,2                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |
| 211 92 18                                                                                                                                                                        | 180               | 0,350                                         | E[J]                 | 4128 | 3716 | 3335 | 2991 | 2665 | 2374 | 2106 | PBR                      | 172 m | 1,4  | 4,0  | 2,3  | -4,2  | -16,2 | -34,1                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| EVO                                                                                                                                                                              | 11,9              | 600                                           | V[m/s]               | 835  | 794  | 754  | 715  | 678  | 641  | 606  | ⊕                        | 100 m | -0,6 | ⊕    | -3,8 | -12,3 | -26,3 | -46,2                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |
| 231 54 35                                                                                                                                                                        | 184               | 0,366                                         | E[J]                 | 4148 | 3751 | 3383 | 3042 | 2735 | 2445 | 2185 | PBR                      | 171 m | 1,4  | 4,0  | 2,2  | -4,4  | -16,3 | -34,2                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| KS                                                                                                                                                                               | 13,0              | 600                                           | V[m/s]               | 780  | 739  | 700  | 662  | 625  | 589  | 555  | ⊕                        | 100 m | -0,3 | ⊕    | -4,8 | -15,1 | -31,8 | -55,5                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ○                                                                                   | ○ |
| 211 78 19                                                                                                                                                                        | 200               | 0,356                                         | E[J]                 | 3955 | 3550 | 3185 | 2849 | 2539 | 2255 | 2002 | PBR                      | 160 m | 1,7  | 4,0  | 1,2  | -7,1  | -21,8 | -43,5                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |
| UNI Classic                                                                                                                                                                      | 13,0              | 600                                           | V[m/s]               | 790  | 752  | 714  | 678  | 643  | 609  | 576  | ⊕                        | 100 m | -0,3 | ⊕    | -4,5 | -14,3 | -30,1 | -52,5                                                                               | ○                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ● |
| 231 47 03                                                                                                                                                                        | 200               | 0,380                                         | E[J]                 | 4057 | 3676 | 3314 | 2988 | 2687 | 2411 | 2157 | PBR                      | 163 m | 1,7  | 4,0  | 1,5  | -6,3  | -20,1 | -40,4                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |





GECO - ALL YOU NEED



Handgun Cartridges

The range of GECO handgun cartridges is continually being reviewed and expanded to meet the needs of all handgun shooters. A wide range of cartridges is now available for static shooting, dynamic shooting, hunting and self defence. Whatever the discipline or requirement the GECO range of handgun cartridges offers you an answer, choose from 12 different calibers and 5 bullet types.

| Projectile<br>Article No.                                                                                                                                                                   | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sub>3)</sub> | 50m   | 100m | 150m | 200m | 250m  | 300m  |        |   |   |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|----------------------|------|------|------|------|------|------|------|--------------------------|-------|------|------|------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
|  <b>8 x 57 JS</b>     |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |
| DK                                                                                                                                                                                          | 11,7              | 600                                           | V[m/s]               | 820  | 767  | 717  | 668  | 622  | 577  | 534  | ⊕                        | 100 m | -0,4 | ⊕    | -4,4 | -14,3 | -30,5 | -54,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 212 34 95                                                                                                                                                                                   | 180               | 0,282                                         | E[J]                 | 3934 | 3441 | 3007 | 2610 | 2263 | 1948 | 1668 | PBR                      | 164 m | 1,6  | 4,0  | 1,6  | -6,2  | -20,5 | -42,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| HMK                                                                                                                                                                                         | 12,1              | 600                                           | V[m/s]               | 800  | 755  | 712  | 670  | 629  | 590  | 553  | ⊕                        | 100 m | -0,3 | ⊕    | -4,5 | -14,5 | -30,7 | -54,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 211 79 16                                                                                                                                                                                   | 187               | 0,326                                         | E[J]                 | 3872 | 3449 | 3067 | 2716 | 2394 | 2106 | 1850 | PBR                      | 162 m | 1,6  | 4,0  | 1,5  | -6,5  | -20,8 | -42,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| TMR                                                                                                                                                                                         | 12,7              | 600                                           | V[m/s]               | 790  | 740  | 691  | 644  | 600  | 557  | 516  | ⊕                        | 100 m | -0,3 | ⊕    | -4,9 | -15,7 | -33,4 | -59,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 211 79 32                                                                                                                                                                                   | 196               | 0,288                                         | E[J]                 | 3963 | 3477 | 3032 | 2634 | 2286 | 1970 | 1691 | PBR                      | 158 m | 1,7  | 4,0  | 1,1  | -7,8  | -23,4 | -47,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| ID Classic                                                                                                                                                                                  | 12,8              | 600                                           | V[m/s]               | 800  | 759  | 720  | 681  | 644  | 608  | 573  | ⊕                        | 100 m | -0,4 | ⊕    | -4,4 | -14,0 | -29,6 | -51,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 211 92 26                                                                                                                                                                                   | 198               | 0,360                                         | E[J]                 | 4096 | 3687 | 3318 | 2968 | 2654 | 2366 | 2101 | PBR                      | 164 m | 1,6  | 4,0  | 1,6  | -6,0  | -19,6 | -39,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| EVO                                                                                                                                                                                         | 13,0              | 600                                           | V[m/s]               | 730  | 690  | 652  | 615  | 579  | 544  | 511  | ⊕                        | 100 m | 0,1  | ⊕    | -5,9 | -18,2 | -37,9 | -65,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 231 62 01                                                                                                                                                                                   | 200               | 0,350                                         | E[J]                 | 3464 | 3095 | 2763 | 2458 | 2179 | 1924 | 1697 | PBR                      | 151 m | 2,1  | 4,0  | 0,2  | -10,2 | -27,8 | -53,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
|  <b>8 x 57 JRS</b>    |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |
| DK                                                                                                                                                                                          | 11,7              | 600                                           | V[m/s]               | 760  | 710  | 661  | 615  | 570  | 528  | 488  | ⊕                        | 100 m | -0,1 | ⊕    | -5,6 | -17,6 | -37,3 | -65,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ○ |
| 212 35 09                                                                                                                                                                                   | 180               | 0,282                                         | E[J]                 | 3379 | 2949 | 2556 | 2213 | 1901 | 1631 | 1393 | PBR                      | 153 m | 2,0  | 4,0  | 0,5  | -9,6  | -27,2 | -53,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| HMK                                                                                                                                                                                         | 12,1              | 600                                           | V[m/s]               | 770  | 726  | 684  | 643  | 603  | 565  | 528  | ⊕                        | 100 m | -0,2 | ⊕    | -5,1 | -16,1 | -33,9 | -59,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 211 79 83                                                                                                                                                                                   | 187               | 0,326                                         | E[J]                 | 3587 | 3189 | 2831 | 2501 | 2200 | 1931 | 1687 | PBR                      | 157 m | 1,8  | 4,0  | 1,0  | -8,1  | -23,8 | -47,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| TMR                                                                                                                                                                                         | 12,7              | 600                                           | V[m/s]               | 730  | 682  | 636  | 591  | 548  | 509  | 471  | ⊕                        | 100 m | 0,1  | ⊕    | -6,2 | -19,5 | -41,0 | -72,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ○ |
| 211 80 09                                                                                                                                                                                   | 196               | 0,288                                         | E[J]                 | 3384 | 2954 | 2569 | 2218 | 1907 | 1645 | 1409 | PBR                      | 148 m | 2,2  | 4,0  | -0,1 | -11,4 | -30,9 | -59,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| ID Classic                                                                                                                                                                                  | 12,8              | 600                                           | V[m/s]               | 750  | 711  | 673  | 636  | 600  | 565  | 532  | ⊕                        | 100 m | -0,1 | ⊕    | -5,4 | -16,8 | -35,0 | -61,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 211 92 34                                                                                                                                                                                   | 198               | 0,360                                         | E[J]                 | 3600 | 3235 | 2899 | 2589 | 2304 | 2043 | 1811 | PBR                      | 155 m | 1,9  | 4,0  | 0,7  | -8,7  | -25,0 | -49,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| EVO                                                                                                                                                                                         | 13,0              | 600                                           | V[m/s]               | 720  | 680  | 642  | 606  | 570  | 536  | 503  | ⊕                        | 100 m | 0,2  | ⊕    | -6,1 | -18,9 | -39,3 | -68,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● | ● |
| 231 62 00                                                                                                                                                                                   | 200               | 0,350                                         | E[J]                 | 3370 | 3006 | 2679 | 2387 | 2112 | 1867 | 1645 | PBR                      | 149 m | 2,2  | 4,0  | -0,1 | -10,9 | -29,3 | -56,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
|  <b>8 x 68 S</b>  |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |
| KS                                                                                                                                                                                          | 11,7              | 650                                           | V[m/s]               | 990  | 936  | 884  | 833  | 785  | 738  | 693  | ⊕                        | 100 m | -1,1 | ⊕    | -2,0 | -7,6  | -17,2 | -31,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |   |
| 211 81 49                                                                                                                                                                                   | 180               | 0,310                                         | E[J]                 | 5734 | 5125 | 4572 | 4059 | 3605 | 3186 | 2809 | PBR                      | 202 m | 0,9  | 4,0  | 3,9  | 0,3   | -7,3  | -19,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| DK                                                                                                                                                                                          | 11,7              | 650                                           | V[m/s]               | 945  | 887  | 832  | 779  | 728  | 679  | 632  | ⊕                        | 100 m | -0,9 | ⊕    | -2,6 | -9,3  | -20,6 | -37,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |   |
| 212 35 17                                                                                                                                                                                   | 180               | 0,282                                         | E[J]                 | 5224 | 4603 | 4050 | 3550 | 3100 | 2697 | 2337 | PBR                      | 190 m | 1,1  | 4,0  | 3,4  | -1,3  | -10,6 | -25,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| HMK                                                                                                                                                                                         | 12,1              | 650                                           | V[m/s]               | 970  | 919  | 870  | 823  | 777  | 733  | 690  | ⊕                        | 100 m | -1,0 | ⊕    | -2,2 | -8,0  | -17,9 | -32,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |   |
| 211 81 14                                                                                                                                                                                   | 187               | 0,326                                         | E[J]                 | 5692 | 5110 | 4579 | 4098 | 3653 | 3251 | 2880 | PBR                      | 199 m | 0,9  | 4,0  | 3,7  | -0,1  | -8,0  | -20,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| EVO                                                                                                                                                                                         | 13,0              | 650                                           | V[m/s]               | 915  | 869  | 825  | 783  | 741  | 701  | 662  | ⊕                        | 100 m | -0,9 | ⊕    | -2,7 | -9,5  | -20,7 | -36,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |   |
| 231 65 22                                                                                                                                                                                   | 200               | 0,350                                         | E[J]                 | 5442 | 4909 | 4424 | 3985 | 3569 | 3194 | 2849 | PBR                      | 187 m | 1,1  | 4,0  | 3,2  | -1,6  | -10,9 | -25,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
| KS                                                                                                                                                                                          | 14,5              | 650                                           | V[m/s]               | 870  | 825  | 782  | 739  | 699  | 659  | 621  | ⊕                        | 100 m | -0,7 | ⊕    | -3,3 | -11,1 | -24,0 | -42,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |   |
| 211 81 22                                                                                                                                                                                   | 224               | 0,343                                         | E[J]                 | 5488 | 4935 | 4434 | 3959 | 3542 | 3149 | 2796 | PBR                      | 178 m | 1,3  | 4,0  | 2,7  | -3,1  | -13,9 | -30,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |

Animal pictogram:  Capercaille  Fox  Roe deer  Wild boar  Red deer  Elk  Buffalo  
Rating: ● highly suitable ○ well suited ○ suitable, with limitations / <sup>1)</sup> BC = ballistic coefficient - <sup>2)</sup> V = velocity, E = Energy - <sup>3)</sup> PBR = point-blank range  
The field of application is just a non-binding recommendation, and is not a substitute for individual experience.  
Our ballistic data are established using test barrels. The values may be different when shooting the ammunition in normal commercial guns.



# Rottweil®

## STEEL GAME



### Soft iron shotshells for environmentally friendly hunters

Today hunters are concerned and are knowledgeable about what is good for nature and so the environmental compatibility of shotgun cartridges is a priority for shooters. However it is still important that as far as possible the perfor-

mance of the cartridge should not be compromised. This is why so many hunters choose Rottweil steel game; carefully selected and tuned components guarantee excellent performance with minimal environmental impact.

| Projectile<br>Article No.                                                                                                                                                                            | Weight<br>g<br>gr | Barrel length<br>mm<br>BC-Value <sup>1)</sup> | V <sub>2)</sub><br>E | 0m   | 50m  | 100m | 150m | 200m | 250m | 300m | ⊕<br>PBR * <sup>3)</sup> | 50m   | 100m | 150m | 200m | 250m  | 300m  |        |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|----------------------|------|------|------|------|------|------|------|--------------------------|-------|------|------|------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|
|  <b>9,3 x 62</b>               |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |
| DK                                                                                                                                                                                                   | 14,6              | 600                                           | V[m/s]               | 800  | 745  | 693  | 642  | 594  | 547  | 504  | ⊕                        | 100 m | -0,3 | ⊕    | -4,8 | -15,6 | -33,4 | -59,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 81 65                                                                                                                                                                                            | 225               | 0,266                                         | E[J]                 | 4672 | 4052 | 3506 | 3009 | 2576 | 2184 | 1854 | PBR                      | 160 m | 1,7  | 4,0  | 1,2  | -7,6  | -23,3 | -47,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| KS                                                                                                                                                                                                   | 16,0              | 600                                           | V[m/s]               | 800  | 754  | 710  | 667  | 626  | 586  | 548  | ⊕                        | 100 m | -0,3 | ⊕    | -4,5 | -14,6 | -30,9 | -54,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 81 81                                                                                                                                                                                            | 247               | 0,320                                         | E[J]                 | 5120 | 4548 | 4033 | 3559 | 3135 | 2747 | 2402 | PBR                      | 162 m | 1,7  | 4,0  | 1,5  | -6,5  | -20,8 | -42,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| HMK                                                                                                                                                                                                  | 16,7              | 600                                           | V[m/s]               | 760  | 721  | 684  | 648  | 613  | 580  | 547  | ⊕                        | 100 m | -0,1 | ⊕    | -5,1 | -16,1 | -33,6 | -58,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 82 03                                                                                                                                                                                            | 258               | 0,372                                         | E[J]                 | 4823 | 4341 | 3907 | 3506 | 3138 | 2809 | 2498 | PBR                      | 157 m | 1,9  | 4,0  | 0,9  | -8,0  | -23,5 | -46,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| TMR                                                                                                                                                                                                  | 18,5              | 600                                           | V[m/s]               | 695  | 651  | 609  | 569  | 530  | 494  | 459  | ⊕                        | 100 m | 0,4  | ⊕    | -7,0 | -21,6 | -45,0 | -78,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 82 11                                                                                                                                                                                            | 285               | 0,309                                         | E[J]                 | 4468 | 3920 | 3431 | 2995 | 2598 | 2257 | 1949 | PBR                      | 144 m | 2,4  | 4,0  | -1,0 | -13,6 | -34,9 | -66,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| EVO                                                                                                                                                                                                  | 18,8              | 600                                           | V[m/s]               | 730  | 695  | 661  | 628  | 597  | 566  | 536  | ⊕                        | 100 m | 0,0  | ⊕    | -5,7 | -17,6 | -36,3 | -62,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 231 54 36                                                                                                                                                                                            | 291               | 0,400                                         | E[J]                 | 5009 | 4540 | 4107 | 3707 | 3350 | 3011 | 2701 | PBR                      | 152 m | 2,0  | 4,0  | 0,3  | -9,6  | -26,4 | -50,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| UNI Classic                                                                                                                                                                                          | 19,0              | 600                                           | V[m/s]               | 740  | 710  | 680  | 651  | 623  | 596  | 569  | ⊕                        | 100 m | -0,1 | ⊕    | -5,2 | -16,3 | -33,7 | -57,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 92 42                                                                                                                                                                                            | 293               | 0,465                                         | E[J]                 | 5202 | 4789 | 4393 | 4026 | 3687 | 3375 | 3076 | PBR                      | 156 m | 2,0  | 4,0  | 0,8  | -8,2  | -23,6 | -45,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
|  <b>9,3 x 64</b>               |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |
| DK                                                                                                                                                                                                   | 14,6              | 650                                           | V[m/s]               | 900  | 841  | 785  | 730  | 678  | 628  | 580  | ⊕                        | 100 m | -0,8 | ⊕    | -3,2 | -11,1 | -24,3 | -43,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |
| 211 81 73                                                                                                                                                                                            | 225               | 0,266                                         | E[J]                 | 5913 | 5163 | 4498 | 3890 | 3356 | 2879 | 2456 | PBR                      | 179 m | 1,2  | 4,0  | 2,8  | -3,0  | -14,2 | -31,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |
| UNI Classic                                                                                                                                                                                          | 19,0              | 650                                           | V[m/s]               | 785  | 754  | 723  | 693  | 664  | 636  | 608  | ⊕                        | 100 m | -0,3 | ⊕    | -4,4 | -13,8 | -28,9 | -50,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |
| 211 92 50                                                                                                                                                                                            | 293               | 0,465                                         | E[J]                 | 5854 | 5401 | 4966 | 4562 | 4189 | 3843 | 3512 | PBR                      | 165 m | 1,7  | 4,0  | 1,7  | -5,8  | -18,8 | -37,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ● | ● | ● |
|  <b>9,3 x 74 R</b>             |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |
| DK                                                                                                                                                                                                   | 14,6              | 600                                           | V[m/s]               | 785  | 731  | 679  | 629  | 581  | 536  | 493  | ⊕                        | 100 m | -0,2 | ⊕    | -5,1 | -16,5 | -35,2 | -62,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 81 57                                                                                                                                                                                            | 225               | 0,266                                         | E[J]                 | 4498 | 3901 | 3366 | 2888 | 2464 | 2097 | 1774 | PBR                      | 157 m | 1,8  | 4,0  | 0,9  | -8,4  | -25,1 | -50,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| KS                                                                                                                                                                                                   | 16,0              | 600                                           | V[m/s]               | 750  | 706  | 663  | 622  | 582  | 545  | 509  | ⊕                        | 100 m | 0,0  | ⊕    | -5,6 | -17,5 | -36,7 | -64,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 82 97                                                                                                                                                                                            | 247               | 0,320                                         | E[J]                 | 4500 | 3987 | 3517 | 3095 | 2710 | 2376 | 2073 | PBR                      | 154 m | 2,0  | 4,0  | 0,6  | -9,3  | -26,4 | -51,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| HMK                                                                                                                                                                                                  | 16,7              | 600                                           | V[m/s]               | 730  | 693  | 656  | 621  | 587  | 554  | 523  | ⊕                        | 100 m | 0,1  | ⊕    | -5,8 | -17,9 | -37,2 | -64,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 82 62                                                                                                                                                                                            | 258               | 0,372                                         | E[J]                 | 4450 | 4010 | 3593 | 3220 | 2877 | 2563 | 2284 | PBR                      | 151 m | 2,0  | 4,0  | 0,2  | -10,0 | -27,3 | -52,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| TMR                                                                                                                                                                                                  | 18,5              | 600                                           | V[m/s]               | 695  | 651  | 609  | 569  | 530  | 494  | 459  | ⊕                        | 100 m | 0,4  | ⊕    | -7,0 | -21,6 | -45,0 | -78,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 82 70                                                                                                                                                                                            | 285               | 0,309                                         | E[J]                 | 4468 | 3920 | 3431 | 2995 | 2598 | 2257 | 1949 | PBR                      | 144 m | 2,4  | 4,0  | -1,0 | -13,6 | -34,9 | -66,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| EVO                                                                                                                                                                                                  | 18,8              | 600                                           | V[m/s]               | 700  | 666  | 633  | 601  | 570  | 540  | 511  | ⊕                        | 100 m | 0,3  | ⊕    | -6,4 | -19,6 | -40,4 | -69,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 231 54 37                                                                                                                                                                                            | 291               | 0,400                                         | E[J]                 | 4606 | 4169 | 3766 | 3395 | 3054 | 2741 | 2455 | PBR                      | 147 m | 2,3  | 4,0  | -0,4 | -11,6 | -30,4 | -57,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| UNI Classic                                                                                                                                                                                          | 19,0              | 600                                           | V[m/s]               | 695  | 666  | 637  | 610  | 582  | 556  | 531  | ⊕                        | 100 m | 0,3  | ⊕    | -6,3 | -19,2 | -39,4 | -67,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 92 77                                                                                                                                                                                            | 293               | 0,465                                         | E[J]                 | 4589 | 4214 | 3855 | 3535 | 3218 | 2937 | 2679 | PBR                      | 148 m | 2,3  | 4,0  | -0,3 | -11,2 | -29,4 | -55,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
|  <b>.375 H&amp;H Mag.</b>  |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |
| KS                                                                                                                                                                                                   | 19,4              | 650                                           | V[m/s]               | 765  | 729  | 695  | 661  | 629  | 597  | 565  | ⊕                        | 100 m | -0,2 | ⊕    | -4,9 | -15,4 | -32,1 | -55,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 84 59                                                                                                                                                                                            | 299               | 0,403                                         | E[J]                 | 5677 | 5155 | 4685 | 4238 | 3838 | 3457 | 3096 | PBR                      | 159 m | 1,8  | 4,0  | 1,1  | -7,4  | -22,1 | -43,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| UNI Classic                                                                                                                                                                                          | 19,5              | 650                                           | V[m/s]               | 760  | 717  | 676  | 636  | 598  | 561  | 526  | ⊕                        | 100 m | -0,1 | ⊕    | -5,3 | -16,6 | -34,8 | -60,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 83 78                                                                                                                                                                                            | 301               | 0,334                                         | E[J]                 | 5632 | 5012 | 4456 | 3944 | 3487 | 3069 | 2698 | PBR                      | 155 m | 1,9  | 4,0  | 0,7  | -8,7  | -24,9 | -49,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
|  <b>.404 Rimless</b>       |                   |                                               |                      |      |      |      |      |      |      |      |                          |       |      |      |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |
| TMR                                                                                                                                                                                                  | 26,0              | 650                                           | V<br>[m/s]           | 705  | 664  | 625  | 587  | 551  | 516  | 483  | ⊕                        | 100 m | 0,3  | ⊕    | -6,6 | -20,3 | -42,1 | -73,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ● | ● | ● | ● |
| 211 93 31                                                                                                                                                                                            | 400               | 0,335                                         | E [J]                | 6461 | 5732 | 5078 | 4479 | 3947 | 3461 | 3033 | PBR                      | 146 m | 2,3  | 4,0  | -0,6 | -12,3 | -32,1 | -61,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ○ | ● | ● |
| VM                                                                                                                                                                                                   | 26,0              | 650                                           | V<br>[m/s]           | 705  | 665  | 627  | 590  | 555  | 520  | 488  | ⊕                        | 100 m | 0,3  | ⊕    | -6,5 | -20,1 | -41,7 | -72,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ○ | ● | ● |
| 211 93 58                                                                                                                                                                                            | 400               | 0,344                                         | E [J]                | 6461 | 5749 | 5111 | 4525 | 4004 | 3515 | 3096 | PBR                      | 146 m | 2,3  | 4,0  | -0,6 | -12,2 | -31,8 | -60,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ | ○ | ● | ● |

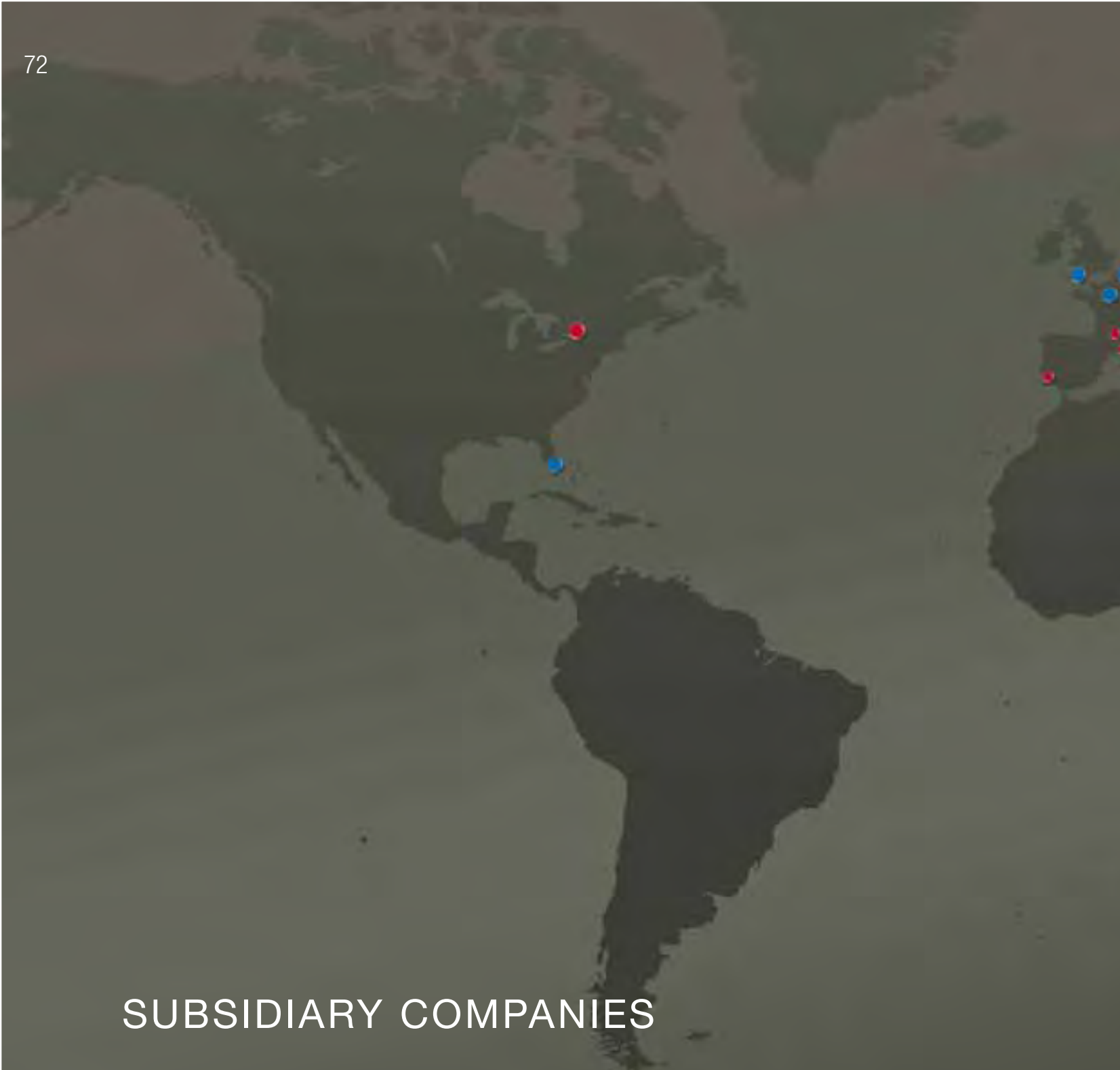
Animal pictogram:  Capercaille  Fox  Roe deer  Wild boar  Red deer  Elk  Buffalo

Rating: ● highly suitable ○ well suited ○ suitable, with limitations / <sup>1)</sup> BC = ballistic coefficient - <sup>2)</sup> V = velocity, E = Energy - <sup>3)</sup> PBR = point-blank range

The field of application is just a non-binding recommendation, and is not a substitute for individual experience.

Our ballistic data are established using test barrels. The values may be different when shooting the ammunition in normal commercial guns.





## SUBSIDIARY COMPANIES



### **BELGIUM**

RUAG Ammotec Benelux BVBA  
Kapelleveldstraat 18  
2530 Boechout (Antwerpen)  
Tel.: +32 3 4557508  
Fax: +32 3 4540446



### **GREAT BRITAIN**

RUAG Ammotec UK Ltd.  
Upton Cross, Liskeard  
Cornwall PL14 5BQ  
Tel.: +44 1579 362319  
Fax: +44 1579 364033



### **FRANCE**

RUAG Ammotec France  
47, Avenue des Genottes  
95800 Cergy Pontoise Cedex  
Tel.: +33 1 34351591  
Fax: +33 1 34351599



### **AUSTRIA**

RUAG Ammotec Austria GmbH  
IZ-NÖ-Süd, Strasse 7 - Obj. 58 D  
2355 Wiener Neudorf  
Tel.: +43 2236 677735  
Fax: +43 2236 677736



### **USA**

RUAG Ammotec USA, Inc.  
5402 E. Diana Street  
FL 33610 Tampa  
Tel.: +1 813 6260077  
Fax: +1 813 6260078

Trade dealers for RWS rifle cartridges can be found under [www.rws-ammunition.com/service](http://www.rws-ammunition.com/service)





*We wish to thank Michael Agel from Leica for his friendly assistance  
with the photography for the RWS catalog.*



*RWS is an official partner of the DSB National Team, the Federation of German Professional Hunters, and the National Rifle Association.*

RUAG Ammotec GmbH • Kronacher Straße 63 • D-90765 Fürth • Germany

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