THE AMMUNITION COUNTS
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-Aktiengesellschaft” (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.

That’s why generations of hunters have trusted RWS.
REASSURING

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

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. For reliability - RWS.

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.

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.
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 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.

RELIABLE I ACCURATE I BORE-FRIENDLY I EFFECTIVE I INNOVATIVE

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.

HARMONY

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

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 6.5 x 57 (R), 6.5 x 57 (R), 6.5 x 65 (R), 7 x 64 (R) and 8 x 68 (R) • 6 different types of lead for projectile cores • 4 different materials for projectile jackets • More than 100 primer recipes • More than 96 different cases • Innovation 2008: Super Clean Technology • Innovation 2009: Flash Control Technology • RWS is seen as the most reliable, competent and innovative brand • RWS is the best-known brand of ammunition for hunters • RWS products stand for accuracy, humane hunting, little damage to the meat, and short to zero flight distances.

Heinz Riedl (R & D Project Manager at RWS) – When, as a product manager, I look back on the work of my colleagues and predecessors, I 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 us an impetus, and so we are always ready to take up the challenge to develop innovative products.
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.
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 cartridges 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. Every one of these production steps is followed by a manual size check with various gauges, to 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 regulation 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.
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).
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. Rigourous 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.

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 30-40 show the results of test firing .30 cal. bullets in gelatine. High speed films are also available on line at www.rws-ammunition.com and they show the impressive effects of our range of special bullets.
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 case: 8x57 IS / 8x57 IRS
Currently RWS is manufacturing the two calibers 8x57 IS and 8x57 IRS. These may under no circumstances be fired from weapons with the caliber designation 8x57 I or 8x57 IR. To avoid confusion, with RWS the calibers 8x57 IS and 8x57 IRS are marked with a black circular lacquer coating around the primer.

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

<table>
<thead>
<tr>
<th>Metric system</th>
<th>Examples</th>
<th>Imperial system (diameters in inches)</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,6 mm</td>
<td>5,6 x 50 R Magnum</td>
<td>.222 - .228</td>
<td>.22 Hornet, .222 Rem., .223 Rem.</td>
</tr>
<tr>
<td>6 mm</td>
<td>6,5 x 50 RWS</td>
<td>.243</td>
<td>.243 Win.</td>
</tr>
<tr>
<td>6,5 mm</td>
<td>6,5 x 55 RWS</td>
<td>.257 - .264</td>
<td>.270 Win., .270 WSM</td>
</tr>
<tr>
<td>6,8 mm</td>
<td>7 x 64</td>
<td>.277</td>
<td>.280 Rem.</td>
</tr>
<tr>
<td>6,52 mm</td>
<td>6,5 x 64</td>
<td>.278</td>
<td>.308 Win., .30-06, .30 R Blaser</td>
</tr>
<tr>
<td>6 mm</td>
<td>6 x 57 I</td>
<td>.295</td>
<td>.318</td>
</tr>
<tr>
<td>8 mm</td>
<td>8 x 57 IS</td>
<td>.323</td>
<td>.323</td>
</tr>
<tr>
<td>8 mm</td>
<td>8 x 57 IRS</td>
<td>.323</td>
<td>.323</td>
</tr>
<tr>
<td>9 mm</td>
<td>.358</td>
<td>.358</td>
<td>.358</td>
</tr>
<tr>
<td>9,3 mm</td>
<td>9,3 x 62</td>
<td>.364 - .366</td>
<td>.375 H&amp;H Mag.</td>
</tr>
<tr>
<td>9,5 mm</td>
<td>.375</td>
<td>.375</td>
<td></td>
</tr>
<tr>
<td>10,3 mm</td>
<td>10,3 x 60 R</td>
<td>.413</td>
<td>.413</td>
</tr>
<tr>
<td>10,75 mm</td>
<td>.423</td>
<td>.423</td>
<td>.423</td>
</tr>
</tbody>
</table>

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.
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.
Basic ballistics

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 barrel, 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.

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.

Recommended Zero Range – RZR

Recommended Zero 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 4 cm 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 x64mm 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)

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.

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. \( V \), 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. \( E_100 \), 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: \( E_100 = 1,000 \) J when hunting Roe deer with a rifle, and \( E_100 = 2,000 \) 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.

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 photos 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.

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

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.
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.
**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.

**Hit**

Convincing penetration - lead-free

The RWS HIT is a lead-free expanding bullet with high weight retention due to its monolithic construction. The unique Hit Matrix with the RWS TC-Tip (Twin-Compression-Tip) and the RWS ACC (Active-Crater-Cavity) guarantees fast and certain expansion with great shocking power, even at long ranges. The compact slug, which retains 99% of its original weight, assures deep penetration and a certain exit wound - even after striking bone! This makes the RWS HIT the appropriate lead-free alternative for those favouring non-fragmenting bullets. This bullet is suitable for all ordinary game animals, but is ideal for use against medium to heavy game.

**Calibers:**
- .270 Win.
- .308 Win.
- .300 Win. Mag.
- .300 WSM
- 8x57 JS
- 8x57 JRS
- 8x68 S
- 9x36 R
- 9,3x74 R
- .30-06
- .300 Win. Mag.

RWS TC-Tip (Twin-Compression-Tip)
RWS ACC (Active-Crater-Cavity)

**The features at a glance:**
- Superior Penetration – The mushroomed slug retains its integrity despite the bullet’s rapid expansion. This guarantees deep penetration and a certain exit, even at very high impact velocities and/or against heavy resistance such as major bones. It is in the taking of larger game that the superior qualities of this bullet are the most impressive.
- Less Damaged Meat – Unlike fragmenting bullets, the lead-free RWS HIT imparts its energy exclusively by a 100% fragment-free mushrooming of the copper bullet in the game animal. The result: Less wasted meat and no bullet fragments!
- Impressive Ballistics – With its flat trajectory and immense energy, the RWS HIT is the top choice for long-range game shooting in high-velocity calibres.
- Powerful Shock Effect – Quick and certain bullet expansion in all game, even at longer ranges!

**Calibers:**
- .300 Win. Mag.
- .300 WSM
- 8x57 JS
- 8x57 JRS
- 8x68 S
- 9,3x74 R
- .308 Win.
- 9x36 R
- 9,3x74 R
With its newly developed projectile EVOLUTION GREEN, RWS now offers an intelligent alternative for all those who prefer not to use conventional, lead-core ammunition. Thanks to the cleverly devised, precisely coordinated features of its design, the new bullet guarantees humane and successful hunting. A specially pre-fragmented front core made of tin, a food-safe metal, and the use of RWS’ new Speed Tip bullet points enable the RWS EVOLUTION GREEN to achieve an impressive shock effect, particularly at long range. EVOLUTION GREEN projectiles naturally have all the advantages you would expect from an RWS rifle cartridge: they are reliable, effective, precise, kind on the barrel and innovative.

**Features at a glance:**
- **Added shock:** excellent impact behaviour thanks to multiple perforations in the front tin core coupled with Speed Tip bullet points for impressive impact shock. This results in faster kills, meaning markedly shorter flight distances and fewer searches.
- **Added distance:** impressive killing effect, even at long range. With conventional designs, there is a tangible decrease in deformation capability at long distances. Not so with the EVO GREEN: here, this effect is noticeably reduced thanks to the intelligent design of the projectile.
- **Outstanding ballistics:** flat trajectory with high levels of speed and energy thanks to the optimised bullet form (high BC) with its Speed Tip bullet point.
- **Reliable tracking signs:** Guaranteed exit wound for reliable blood flow thanks to stable tail body and sharp edge delivers the desired clean cut

**Calibers:**
- 6,5x55
- 6,5x57
- 6,5x57R
- 6,5x68
- .270 Win.
- 7x57 R
- 7x68 R
- 7x68 S
- 7mm Rem. Mag.
- 9,3x62
- 9,3x74 R
- 8x68
- 9x68
- 9x68
- 9x68

**Penetration depth**

**Effect of bullet on body of game at 100 m**

<table>
<thead>
<tr>
<th>Range [m]</th>
<th>Added shock</th>
<th>Added distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>+50%</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300</td>
<td></td>
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- Reliable tracking signs: Guaranteed exit wound for reliable blood flow thanks to stable tail body and sharp edge delivers the desired clean cut
Rapid technological progress in the field of firearms and optics now make it possible to shoot and hunt at ever greater distances. Plus, the growth in the number of hunting trips means that hunting ammunition has to be effective at various ranges and for multiple classes of game. Mountain hunting and hunts for large – African – game require high penetration and great stopping power. RWS has now developed the perfect solution for this high-velocity caliber that’s effective at ranges from close in all the way to 400m and beyond and can handle multiple classes of game. The RWS SPEED TIP PROFESSIONAL is one of the latest developments from RWS aimed at providing very high shock/stopping power as well as effectiveness at long range.

**ST PROFESSIONAL**

**SPEED TIP PRO**

Highest knock down power at all distances

- Extreme Knock-Down Power even on long distances
- Rapid Ballistic
- High Precision

**Calibers:**
- .338 Lapua Magnum
- .308 Win.
- 7x64
- 7x65R
- 9.3x62
- 8x57JS
- 8x57JRS
- 8x68S

**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.**

**Calibers:**
- .270 Win.
- 7x64
- 8x57JS
- 8x57JRS
- 8x68S
- .308 Win.
- .30-06

**H-MANTEL**

For maximum effect

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

**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.
- .30-06
- .30 R Blaser
- .300 Win. Mag.
- .375 H&H Mag.

**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.

**Features at a glance:**
- Ideal for light and medium game
- Front core fragments and ensures 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 R
- 7x57 JRS
- .308 Win.
- .30-06
- .280 Rem.
- 8x57 JS
- 8x57 JRS

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.

Calibers:
- 6,5x55
- 6,5x77
- 6,5x77 R
- .308 Win.
- .30-06
- .30 R Blaser

Soft tipped core
for controlled
fragmentation and
high effectiveness

Long bullet cylinder
for highest precision

Lead core for balanced deformation behaviour with different types of game

Simulated wound cavity in a gelatine block

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

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.

Calibers:
- 5,6x57
- 243 Win.
- 6,5x57
- .300 Win. Mag.
- 7x64 R
- 375 H&H Mag.
- .300 Win. Mag.
- .30-06

Tombak jacket
for highed precision

Lead core for compacted residual portion with a high probability of an exit wound

Low residue level in the body of the game

Simulated wound cavity in a gelatine block

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

The construction of the rear of the bullet stops deformation and ensures a compact residual portion with a high probability of an exit wound.
**Evolution | Hit | EVO Green | Speed Tip Pro | H-Mantel | Uni Classic | ID Classic**

**Doppelkern | Kegelspitze | Soft Point**

**Soft Point**

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.

**Fast deformation capability on light and heavy game**

**High energy transfer to the body of the game**

**Insensitive bullet point for rough handling**

**Calibers:**
- 5,6x50 R Magnum
- 5,6x50 R Magnum
- 5,6x50 R Magnum

**Hunting Match**

For training and competition

Generations of young hunters and competition shooters have successfully relied on these cartridges for their 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
- .22 Rem.
- .223 Rem.
- 5,6x50 Magnum
- 5,6x50 R Magnum
- 5,6x50 R Magnum

**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

**Match M1 Jagd**

- Tombak-plated steel jacket
- Ballistic calotte
- Fully jacketed nose
- Lead core
- Hollow point

**Calibers:**
- .22 Hornet
- .22 Rem.
- .223 Rem.
- 5,6x50 Magnum
- 5,6x50 R Magnum
- 5,6x50 R Magnum
- 5,6x52 R
- 6,5x68
- 7x57 R
- 8x57 JRS
- 9,3x62
- 9,3x74 R
- .243 Win.
- 8x57 JS
- 4140
EXPERTS TRUST RWS

Gunther Stoschek (Creative Director 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.

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.

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, an outstanding impact shock, and an acceptable level of meat damage.

Oliver Schmider (Sales&Marketing Director, Merkel Jagd- und Sportwaffen): The history of Merkel hunting rifle factory in particular has shown that time-proven systems continue to form the basis for first-class hunting weapons. And the RWS Uni Classic superbly demonstrates that the same applies for ammunition. The 7x64 Uni Classic in caliber 7x64 has accompanied me around the globe for many years and impresses with its dependable effectiveness, particularly with big game. For me, the short flight distances and high penetration are crucial aspects in humane hunting.

Michael Agel (Communications & Public Relations, Leica Sport Optics): The focus is increasingly on expansion bullets where hunting rifle rounds are concerned, as they impress with a low residual weight and dependable effectiveness. The Evolution bullet exhibits exactly these characteristics, and is a thrilling companion when out on hunts. The high stopping power and impressive penetration make this bullet my absolute favorite for use with all domestic game — even when bones are hit. A bullet that provides optimal accuracy even in borderline situations and ensures excellent effectiveness, I feel the price is justified, as good things do not come cheap, whether it’s ammunition or optical.
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.
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 us the heavy demands made on a reliable cartridge very clearly. If attacked, there would be no time for mistakes. So the Silver Selection, developed for extreme conditions and with an unparalleled reliability, has become our life insurance.

SILVER SELECTION
Technically and aesthetically unique

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Always Something Special

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 protects against corrosion.

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.

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 muscle flash and in darkness allows the hunter to retain his night vision and keep the quarry in sight.
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.
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 specification 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 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.

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 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.
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

Recommended for the following distances

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>.308 Win.</td>
<td>10.0 g</td>
</tr>
<tr>
<td>.358 Win.</td>
<td>10.8 g</td>
</tr>
<tr>
<td>.308 Win.</td>
<td>12.3 g</td>
</tr>
</tbody>
</table>

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

Single Step Loading Technology

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

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

Recommended for the following distances

<table>
<thead>
<tr>
<th>Caliber</th>
<th>.223 Rem.</th>
<th>.308 Win.</th>
<th>.300 Win. Mag.</th>
<th>.338 Lapua Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>m</td>
<td>200-300</td>
<td>400-500</td>
<td>600-700</td>
<td>800-900</td>
</tr>
</tbody>
</table>
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.

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.

Super Clean

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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.

Peter Nölte (Range Officer, Müller Schießzentrum Ulm, 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 am really appreciative of Super Clean technology!
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.

rws-ammunition.com

<table>
<thead>
<tr>
<th>APPLICATION ADVISOR</th>
<th>BALLISTIC DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy Flight distance Penetration Stopping power Exit wound Clean cut Meat damage</td>
<td></td>
</tr>
<tr>
<td>good very good short very deep deep certain yes very little</td>
<td></td>
</tr>
<tr>
<td>good very good short very deep deep certain no very little</td>
<td></td>
</tr>
<tr>
<td>very good very good very deep medium very deep certain no variable</td>
<td></td>
</tr>
</tbody>
</table>
Out of Four, One. Find the optimal ammunition for your rifle with the new RWS Performance Test Pack! The Test Pack contains 4x5 RWS rifle cartridges loaded with four different special-purpose bullets, and a test target. When purchasing a new rifle or looking for a new load, the hunter has the ability to find the best load for his rifle by using the RWS Performance Test Pack and its four test bullseyes. The test target included with the Test Pack has four differently coloured bullseyes - one for each of the loads - that are numbered to preclude confusion later. The test target also has instructions to help the shooter determine which load performs best. RWS promises maximum accuracy.

The Performance Test Pack is available in calibres .308 Win., .30-06, .300 Win. Mag., 8x57 JS and 9.3x62, all with both lead-core and lead-free bullets. The most important features as well as the unique properties of each bullet are provided on the outside of the packaging. The shooter receives not only a set of targets to determine the best load for his rifle, but also information on other important criteria such as shocking power and meat damage.

RWS Performance Test Pack - Four Wins!
### Ballistic Data

#### Silver Selection

<table>
<thead>
<tr>
<th>Projectile Article No.</th>
<th>Weight</th>
<th>Bullet calibre</th>
<th>Velocity</th>
<th>100 m</th>
<th>500 m</th>
<th>1000 m</th>
<th>1500 m</th>
<th>2000 m</th>
<th>2500 m</th>
<th>3000 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>308 Win.</td>
<td>1.19 g</td>
<td>7.62 x 39</td>
<td>2775</td>
<td>2038</td>
<td>3151</td>
<td>2823</td>
<td>2532</td>
<td>2277</td>
<td>1999</td>
<td>3181</td>
</tr>
<tr>
<td>30-06</td>
<td>1.19 g</td>
<td>6.5 x 55</td>
<td>2775</td>
<td>2038</td>
<td>3151</td>
<td>2823</td>
<td>2532</td>
<td>2277</td>
<td>1999</td>
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</tr>
<tr>
<td>300 Win Mag.</td>
<td>1.19 g</td>
<td>7.62 x 39</td>
<td>2775</td>
<td>2038</td>
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<td>1999</td>
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</table>

**Note:** The above data is for reference only and may vary depending on specific conditions and care taken during use.

### TARGET ELITE

**Recommended for the following distances:**

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<tr>
<th>Distance (m)</th>
<th>50m</th>
<th>100m</th>
<th>150m</th>
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<tbody>
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<td>-35.1</td>
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</table>

### TARGET ELITE PLUS

**in hand-loaded quality**

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<td>3181</td>
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### CINESHOT

**The most trusted specialty for cinema ranges**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Weight</th>
<th>Grain</th>
<th>Grain/Grain</th>
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<tbody>
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<td>7.62</td>
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<td>130 gr</td>
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<tr>
<td>231 10 11</td>
<td>30-06 Win.</td>
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<td>147 gr</td>
</tr>
<tr>
<td>231 10 11</td>
<td>30-06 Win.</td>
<td>8.0</td>
<td>147 gr</td>
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<tr>
<td>.22 Hornet</td>
<td>.222 Rem.</td>
<td>5.6 x 50 Magnum</td>
<td>.223 Win.</td>
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<tr>
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<td>Diameter</td>
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<table>
<thead>
<tr>
<th>.222 Rem.</th>
<th>5.6 x 50 R Magnum</th>
<th>5.6 x 50 RWS</th>
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</thead>
<tbody>
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1) BC = ballistic coefficient - 2) V = velocity, E = Energy - 3) RZR = Recomended Zero 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.

You will find our product advisor at rws-ammunition.com
BALLISTIC DATA

.270 Win.

1) BC = ballistic coefficient  -  2) V = velocity, E = Energy - 3) RZR = Recommended Zero Range / The field of application is just a non-binding recommendation, and is not a substitute for individual experience.

Owing to country-specific legislation and differences in market conditions, not all products are available in every country. Please contact your specialist dealer or distributor.
### BALLISTIC DATA

#### .308 Win.

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1) BC: ballistic coefficient
2) "x" = velocity = C = energy
3) "R" = Rechauffe.
4) "J" = Joint. The field of application is not a non-binding recommendation, and is not a substitute for individual expertise.
5) Our ballistic data are established using test barrels. The values may be different when shooting the ammunition in normal commercial guns.

You will find our product advisor at rws-ammunition.com
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**BALLISTIC DATA**

**EVO GREEN**

**8 x 57 JRS**

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Trade dealers for RWS rifle cartridges can be found under rws-ammunition.com/service

More info can be found under: rws-ammunition.com
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.