

**sako**  
FINLAND

2005



NEW FOR 2005

- Rifles
- Sako Quad rimfire rifle with four interchangeable barrels
  - Sako 75 Hunter Laminated Stainless
  - Sako 75 Varmint Laminated Stainless with fluted barrel
  - Sako TRG with folding stock
  - New caliber 260 Rem in Sako 75

- Accessories
- Extra low Picatinny rail
  - Optilock Weaver base

After thousands of practise shots and years of developing shooting and hunting skills, one might be allowed to become a bit philosophical. The question "What's next? Where to go from here?" rises up. It's not boredom, no; but could there be something... something...new? Something that would add a totally new flavor to your shooting routine? The answer is an emphatic "yes!"

We love shooting because it is challenging, demanding, exciting - and especially, fun. And at Sako, we decided it's time for serious fun. And the result is the new Sako Quad - the world's first four-by-four rifle. Four rim-fire calibers, four interchangeable barrels and a specially developed Burris scope that helps you keep the point of impact with just a couple of clicks. The Sako Quad concept is guaranteed to put new color into your shooting and the colors of pleasure and fun on your cheeks.

The Sako innovation engine has been in high gear for some time and Sako Quad is only a taste of what is in the pipeline. Enjoy and stay tuned...

Yours sincerely,



Henry Paasikivi  
President, CEO  
Sako Ltd



Simple barrel change using Sako Quad barrel tool.

Sako Quad calibers: 17 Mach 2, 22LR, 17HMR and 22WMR. Only two magazines are needed.



Sako Quad scope by Burris memorizes your point of impact. Color coded for different calibers.



## THE WORLD'S FIRST 4x4 RIMFIRE RIFLE



The Sako Quad lives up to its name by giving you four of the very best barrels and calibers in one unique rifle.

Experience more variety and versatility than ever before. The Sako Quad is the world's first bolt action rimfire rifle with four interchangeable barrels. Change the matching Sako precision barrel in just seconds, and enjoy the exciting new rimfire cartridges.

As you would expect, the Sako Quad features innovative design, the finest materials and Sako workmanship combined with cold-hammer forged precision barrels. The result is high-accuracy and flawless operation, with unchanged point of bullet impact with each barrel.

Whether your aim is hunting or target shooting, short/medium/long range, the Sako Quad will put you on the road to complete contentment.

Quad Combo: the complete Sako Quad set with four barrels and two magazines in hard aluminium case.



Sako Quad extra magazines are available in two lengths to match the calibers.



**sako**  
**quad**



Do you want a rifle in which power meets design, evolution joins revolution and craftsmanship shakes hands with advanced materials and hi-tech? Your Sako: the most accurate and reliable factory-made rifle offering an incomparable selection of custom features as standard.



In order to obtain the ultimate in accuracy, Sako 75 barrels are totally free-floating – similar to what many other manufacturers offer only in their custom shops. To test whether a barrel really is free-floating, slip a paper between the barrel and stock. With Sako rifles the free space averages 0.5 mm (1/50 inch) and the paper moves easily over the whole length of the barrel.



The Sako 75 safety is either on or off. Period. The special 2-way safety locks both the trigger and the bolt handle as well as blocks the firing pin. The Sako safety also features a unique bolt release button in front of the safety catch, which allows you to load or remove a cartridge from the chamber with the safety engaged.



The accuracy of Sako barrels is legendary. And for a good reason. The cold-hammer forged barrel is manufactured in an advanced custom-built automated unit. Finally, the barrel is inspected using the most complex and highly refined optical fine tuning instrument known to man: the human eye. Sako 75 barrels are made of either Cr-Mo or stainless steel.



*Sako 75 Hunter*



*Sako 75 Deluxe*

Sako 75 Hunter – your trusted companion. All the features you'd want from a serious performance rifle, including excellent value. Now this exceptional rifle is also available for the left-handed hunting enthusiast. The Sako 75 Hunter and Hunter Lefthanded combine an attractive appearance with superior Sako accuracy, reliability and performance. As with all Sako 75 models, these two models come with an adjustable trigger and detachable 2-row staggered magazines. The high-grade walnut stock is either oil-finished or matte lacquered. Also available in dedicated WSM action.

Sako 75 Deluxe – classic design and craftsmanship. Beautifully grained high-grade walnut stock with handcrafted skip-line checkering, rosewood fore-end tip and pistol grip cap. Highly polished metal parts. Fixed magazine with game motifs on the hinged floorplate. Available finishes: oiled, matte lacquered, or glossy with 8 layers of highly polished lacquer.

**sako** **75**



Sako 75 Stainless steel rifles offer great looks and trouble-free ownership. Our stainless range now covers all action sizes, even the smallest calibers. All Sako 75 Stainless barrels are non-reflecting. A new member of the Sako 75 stainless family is the Hunter Laminated, with matte-lacquered grey laminate stock.







*Sako 75 Hunter Laminated Stainless*

This beautiful rifle is offered in all action sizes. Therefore we can now offer a stainless weatherproof rifle also for small game hunters. All metal parts are made of stainless steel or are specially coated to ensure excellent wear and corrosion resistance. The totally free-floating barrel is cold-hammer forged and the stock is made of grey matte-laquered laminated hardwood providing stability and extreme durability.



*Sako 75 Synthetic Stainless*

The synthetic Sako 75s have a patented non-reflecting stock with matte finish. When you grab a Sako you know instantly that there's more than just all-weather durability and ease of care. There's the special Sako feel: the molded soft-touch grips feel instantly warm even in cold weather and give you the firmest hold you have experienced.

Sako 75 Synthetic Stainless has long been a global favorite and is winning new friends thanks to its unique features, practicality and good looks. Overall weight has been reduced, thanks to a new and lighter stock. And now there's a special new Sako look: green grips against black stock, creating stunning profile.



*Sako 75 Finnlight*

Sako 75 Finnlight is for those who take mountain trails, trek long distances or who simply want all possible extra weight off their shoulders. The specially engineered light barrel is only one of many features. Magnum calibers now feature longer (620 mm) barrel. The entire rifle is lightweight overall – with perfectly trimmed balance, of course – and without any sacrifice in performance or reliability.

**sako** **75**



Key Concept® is the first ever integrated rifle lock. A practically invisible lock that totally blocks the firing pin and prevents bolt movement. True to Sako's drive for functional and stylistic design, our craftsmen wanted Key Concept to be totally integrated, which leaves Sako rifles' lines as they have always been: sleek and smooth. Locking immobilizes the firing pin

and the bolt: the rifle cannot be loaded or fired. Key Concept gives you total security control over your firearm. The actual lock system of the Sako Key Concept has been subjected to grueling performance and safety tests with different loads and in all weather conditions. We will not compromise our standards as the most accurate factory-made premium rifle in the world.

The bolt with three locking lugs solidly seals the cartridge head in the chamber. Bolt lift is only 70°. The bolt body is made of a single piece of special steel and the bolt face is counterbored for better case durability and gas-handling. The slot groove for the mechanical ejector is visible on the bolt head.





The Sako 75 is the first rifle to offer an action featuring a precision bolt with three locking lugs and a mechanical ejector. Five smooth patented (U.S. Patent No. 6000161) guiding surfaces prevent bolt binding and provide ultra-smooth and reliable operation. The mechanical ejector (under the bolt) is extremely reliable in all conditions.



Designing and building a perfect hunting rifle allows no compromises. For example, the trigger guard of the Sako 75 is machined out of a solid block of steel. This is not a cheap way to make it, but it sure is beautiful, nice to handle and extremely durable, and protects the adjustable trigger of the rifle.



Barrels for Sako rifles are made in the house. Barrel blanks are drilled, honed, cold-hammer forged and finished, include hand-crowning for best accuracy. Twist rate is chosen for each caliber to optimize bullet performance. Muzzle crown is protected by concave form in Sako varmint barrels.



*Sako 75 Varmint*



*Sako 75 Varmint Laminated Stainless*

Sako's clockwork-like accuracy is legendary. It is achieved through painstakingly developing and balancing all aspects of the rifle: three locking lugs, five ultra-smooth guiding surfaces, mechanical ejector, truly free-floating barrels, five action sizes for perfect cartridge-action fit, cold-hammer forged barrels individually inspected and finished, special safety mechanism, balanced stocks... the list is almost endless. The outcome is a rifle that feels extraordinarily smooth and solid, providing performance that can take your marksmanship to a new level in no time.

Sako 75 Varmint is a long-range hunting rifle built to deliver pinpoint accuracy for hunting and target shooting. Different action sizes for perfect cartridge/action match. The heavy, totally free-floating barrel diminishes vibration and recoil, making it easy to zero-in and stay on the target. Selected top grade walnut stock is built for accuracy and comfort with extra-wide, flat-bottomed beaver-tail fore-end.

Sako 75 Varmint Laminated Stainless comes with all the same qualities as our Varmint model. Laminated stock and stainless metal parts make it perfect for all conditions. The new fluted barrel accelerates the barrel cooling and gives this beautiful rifle even more good looks.

**sako** **75**



You can expect something special when a rifle-maker famous for offering custom features as standard builds a custom. Sako Custom Shop creates bolt-action rifles for connoisseurs who want an unmistakably personal and handmade gun. Built with uncompromising attention to detail and honed to perfection by our master gunsmiths, one by one. For further information and orders, contact your Sako dealer or distributor.





*Sako 75 Custom Big Game Deluxe*



*Sako Safari 80th Anniversary  
and its accessories are delivered  
in a handmade leather covered case.*



*Sako 75 Custom Single Shot  
is delivered with a carrying case.*

The 80th Anniversary of Sako inspired the creation of the Sako Safari 80 rifle. The edition consists of 80 custom rifles, each numbered and individually hand-crafted from premium materials. The hand-engraved floorplate and the possibility of engraving a personal symbol in the pistol grip's silver plaque further individualize each rifle. The chosen caliber of .375 H&H Mag offers perhaps the most versatile hunting power anywhere in the world and the construction of the massive Sako 75 Magnum action provides reliability and safety in all hunting situations. The rifle, Swarovski PV-I 1,25-4x24 scope, Optilock Quickmount and custom-built tools come in a handmade leather case.

The Sako 75 Custom Single Shot is built for extreme accuracy. The special action construction as well as the glass bedding on the stock insure 1/2 MOA accuracy. Cartridges are loaded one-by-one and fed into the chamber by throwing the bolt forward. All metal parts are made of stainless steel or are specially coated to ensure excellent wear and corrosion resistance. The heavy, fluted, totally free-floating barrel is cold-hammer forged and the laminated hardwood stock is matt lacquered. Delivered with a Sako carrying case.

The Sako 75 Custom Big Game Deluxe 416 Rem Mag is purpose built for big game hunting. Sako 75 Magnum action is specially designed for belted H&H size Magnum cartridges. Controlled cartridge feed combined with three locking lug bolts - exclusive to Sako - gives this beauty reliability in all hunting situations. The durable bolt is machined from a single special steel forging and has no weldings. The fixed magazine with hinged floorplate holds four cartridges. The stock is provided with two cross bolts and an extended recoil lug that is glass bedded on the fore-end. Open sights with post bead are adjustable for windage.



Sako TRG is a total accuracy concept designed to fulfill the needs of special forces and law enforcement long-range marksmen around the world. Available in two models: TRG-22 and TRG-42.

The solid vault-like action is cold-hammer forged from special steel alloy. Integral 17 mm axial scope mounting rails with integral recoil stop-slots on the top of the receiver. The sturdy bolt with three locking lugs feeds rounds unfailingly from the centerline of a detachable staggered 2-row magazine. Reliable feed with various ammunition types. Bolt lift angle is only 60° for fast bolt throw.

Optional TRG accessories include a highly effective 3-chamber muzzle brake, innovative clip-on bipod, extra magazines, auxiliary sights, mirage strap, scope mounts, picatinny interface, sling and swivels, cleaning kit, folding stock, transportation case as well as spacers for cheek piece and butt plate.



1. Tactical scope mount for modern three turret tactical scopes (30 and 34 mm tube diameter). The mount has 0.5 degree elevation allowance (30 MOA) for better adjustment range capability in long range shooting.

2. Tactical (Picatinny) rail is compatible with USA MIL-STD 1913.

Sako TRG black



Folding stock option (green) available with full adjustability. The folding stock can be retrofitted to all Sako TRG models.



This spectacular result of 100% Sako innovation gives you performance that transcends the highest demands for accuracy, reliability and versatility. The TRG is designed to meet individual demands, and adjusts to each shooter's personal style, build and posture.

Configurations include black and green stock with different finishes on barrel and action. Also available in an all-black stealth configuration featuring black stock with phosphatized barrel and action. Fully adjustable high-tech aluminum reinforced composite stock.

The TRG-22 in 308 Win handles a multitude of accuracy tasks: it is a thoroughbred 300 m ISSF standard competition rifle, a CISM competition winner and serves the governments of several nations as their primary sniper rifle.

The TRG-42 in 300 Win Mag and .338 Lapua Mag is a true long-range precision tool for special forces or competition. It can be equipped with various accessories to fulfill the demands of tactical snipers. Super target grade barrels, specially made for TRG (Cr-Mo or stainless), are cold-hammer forged. All Sako TRG receivers are drilled and tapped for Picatinny rails.

TRG-42 Green with phosphatized barrel and optional accessories.



TRG-42 green with folding stock.





There's an essential aiming device which too many shooters overlook: the scope mount. The Sako Optilock™ requires you to set your sights only once. Just think - you need to remove the scope for oiling, cleaning or to change optics to match a tricky shot or a new situation. With Optilock, you won't have to go through all the trouble of zeroing-in again.

*New OptilockWeaver base makes the use of Optilock rings possible in all rifles with Weaver or Picatinny rails.*

*Sako Optilock Ring Mounts are available also in stainless steel. Ring mounts provide light weight and low Optilock mounting for compact scopes.*



*Extra Low Base Mount. This is the lowest possible base-style Optilock mount, providing a compact package for great performance and looks.*





The combination of integral dovetail rails and Optilock mounts is the smartest and surest way to mount a scope on your high-power rifle. Adjustable levers make removal and remounting of Optilock Quickmount precise and easy.

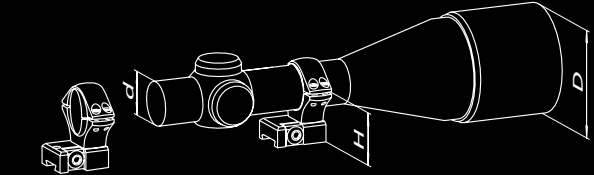
The Sako Optilock gives you a double benefit by offering better performance and enhanced ease of use. As enthusiastic hunters, we know there's never too much of either.

Optilock bases are machined from a solid block of Cr-Mo alloy or stainless steel, just like our rifles. The front bases have a solid angled left side and a similarly angled right side with a clamping device. This base design combined with Sako rifle's integral dovetail rail allows you to adjust the horizontal position of the scope objective end without touching the scope adjustment. The rear base matches the form of the rear dovetail so that the rifle and base mate perfectly. The limiter pin fits exactly the integrated slot into the rear bridge of your Sako. Optilock rings are available in four heights and two diameters: 25.4 mm (1 in) and 30 mm to fit any scope. Like the bases, the rings are made in Cr-Mo alloy and stainless steel. The inner scope saver ring is made of polymer and acts as a ball bearing to prevent the scope tube from being deformed.

The Sako Optilock scope mounts are now even more practical, thanks to innovative new practical fast-action levers and design. The levers are adjustable, making the removal and remounting of the scope precise and easy. In big game hunting, the situations may require you to remove the scope in seconds and use open sights. Sako Optilock Quickmount allows you to do that leaving no distracting base components on the action. To remount, just push the unit back to the dovetail rails of your Sako all the way into the slot on the receiver, tighten the levers and you are all set! The scope is now as perfectly zeroed-in as before.



*Easy matching to any scope and rifle. New Optilock mount bases and rings are available in their individual blister packages. This makes it easy to find the proper base, ring height and diameter combination for your rifle and scope model.*



#### Sako Optilock Ring Mounts

Ring type	Tube diameter (d) mm	Mount height (H) mm	Scope max. outer diameter (D) mm
1" LO	25.4 / 26	Low 27	48...56
1" LO S/S	25.4 / 26	Low 27	48...56
30 mm LO	30	Low 29	52...60
30 mm LO S/S	30	Low 29	52...60

#### Sako Optilock Mount Bases for mount rings

Base type	Rifle / action
Sako Short	L461 / L579, S491 / M591, 75 actions I-III
Sako Long	L61R / L691, TRG-S, 75 actions III-V
Sako Extended	L61R / L691, TRG-S, 75 actions IV-V
Weaver	Sako TRG with Picatinny rail, Weaver rail

#### Sako Optilock Mount Rings for mount bases

Ring type	Tube diameter (d) mm	Mount height (H) mm	Scope max. outer diameter (D) mm
1" XTRA LO	25.4 / 26	Extra Low 28.5	51...59
1" XTRA LO S/S	25.4 / 26	Extra Low 28.5	51...59
1" LO	25.4 / 26	Low 30.5	55...63
1" LO PHO	25.4 / 26	Low 30.5	55...63
1" LO S/S	25.4 / 26	Low 30.5	55...63
1" ME	25.4 / 26	Medium 35.5	65...73
1" ME PHO	25.4 / 26	Medium 35.5	65...73
1" ME S/S	25.4 / 26	Medium 35.5	65...73
1" HI	25.4 / 26	High 40.5	75...83
30 mm XTRA LO	30	Extra Low 30.5	55...63
30 mm XTRA LO S/S	30	Extra Low 30.5	55...63
30 mm LO	30	Low 32.5	59...67
30 mm LO PHO	30	Low 32.5	59...67
30 mm LO S/S	30	Low 32.5	59...67
30 mm ME	30	Medium 36.5	67...75
30 mm ME PHO	30	Medium 36.5	67...75
30 mm ME S/S	30	Medium 36.5	67...75
30 mm HI	30	High 40.5	75...83

#### Sako Optilock Quickmounts (including bases and rings)

1" LO	25.4 / 26	Low	30.5	55...63
1" ME	25.4 / 26	Medium	35.5	65...73
30 mm LO	30	Low	32.5	59...67
30 mm ME	30	Medium	36.5	67...75

Indicated maximum outer diameter of objective end shows values both for heavy barrel (smaller) and standard barrel.



Making both rifles and cartridges is a question of pride as well as offering the best cartridge/action fit in the market, and all the performance benefits it brings to you. Manufacturing a single accurate cartridge is not the most challenging thing. Neither is making ten million. The trickiest part is making the ten million behave as one and the same. The other challenge we enjoy is listening to shooters' needs and introducing exciting new products quickly. OK, shoot.



*Sako Super Hammerhead*

*Sako Hammerhead*

*Powerhead*



*Twinhead*

*Arrowhead*

*Ramhead*

#### 9.3x66 Sako

The 9.3x66 Sako has all the advantages of the popular 9.3 caliber, the performance of the 375 H&H, superior ballistics and penetration. The small, non-belted cartridge is easier to handle and has better feeding features than the bulkier Magnum size 375 H&H.



What's great about shooting is that practicing is exactly the same as the real thing. It's... shooting. Exciting, relaxing, satisfying – and sometimes pretty frustrating. But there's a way to avoid the low points.

In order to progress to higher levels of marksmanship, you need consistency and self-discipline. And one of the most important factors is always to use the same cartridges, both on the range and the field. Without acquiring an instinctive feel for your cartridges' ballistics, you'll never know how good you really are – and you could miss that demanding trophy shot.

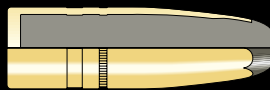
At Sako, we are proud that we have made the cartridge/action fit into an art form. We actually match the action to the cartridge. The result is a perfect marriage. To go through the trouble and expense of offering five action sizes proves the extremes we are ready to go, to give you world-leading performance.

Test our new Short Magnum action, especially tailored for the 270 and 300 WSM cartridges. At the same time we are introducing a .300 WSM cartridge, loaded with our famous Super Hammerhead bonded core boat-tail 11.7 g (180grs) big game bullet. The Sako 75 SM rifle with our new load is a modern, effective but light combination for a hunter looking for a top-notch, flat shooting and accurate hunting rifle.



1

Sako Super Hammerhead (1). Heavy, strong and non-fragmenting jacket ensures controlled expansion. Bonded core construction produces high weight-retention and good penetration. Boat-tailed for high ballistic efficiency and flat trajectory – perfect for all ranges. First developed and tested in Sako ballistic laboratories, followed by extensive big game hunting tests focusing on moose and whitetail deer.



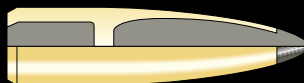
2

Sako Hammerhead (2) is heavy, soft point bullet for large calibers. Specially designed for moose and other big game. Bonded core construction prevents core separation even when hitting tough hide or bone. Excellent stopping power and controlled mushrooming.



3

Powerhead (3) – the famous all-copper expanding hollow point Barnes-X® is one of the finest hunting bullets in the world. The all-copper material ensures deep penetration with even mushrooming and virtually 100% weight retention.



4

Twinhead (4) is a soft point bullet (Nosler Partition®) with two separate lead cores. The enclosed rear core retains at least two-thirds of the original weight for deep penetration. The solid integral partition supports the expanded mushroom and retains the rear lead alloy core even when hitting bone.



5

Speedhead (5) is our full metal jacket bullet that delivers ultimate accuracy for target shooting, furred small game and bird hunting. FMJ produces minimal pelt and tissue damage.



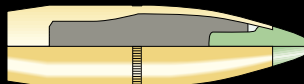
6

Gamehead (6) is an economically-priced soft point bullet of simple and sturdy construction. The Gamehead is an excellent all-purpose bullet for quick kills.



7

Racehead (7) is a hollow point bullet (Sierra Match-King®) developed solely for competition rifle shooters. When high scores are shot and championships won, in many cases the cartridge is Sako Super Match with the Racehead bullet.



8

Arrowhead (8) is a ballistically advanced big game bullet manufactured for Sako by Nosler®. The bullet is very effective for thin-skinned big game and antelope/elk type big game at long ranges. The bullet has a polymer tip to maintain the good ballistic form, and the jacket strengthens gradually from thin front to heavy rear. This contributes to fast shock and large wound channel. Especially suitable for long shots in open terrain.



9

Ramhead (9) is a strong, round-nosed, solid brass bullet (Barnes Solid®) that contains no lead and has a double diameter design. The frontal section has a smaller diameter riding on top of the rifling, the rear section has a diameter of the grooves, thus giving the bullet stable and accurate gyroscopic stability with less friction. The bullet does not lose weight upon tissue penetration, thus giving reliable, deep penetration. Ramhead is a very reliable big game bullet for special hunting situations such as shooting dangerous heavy game from frontal or rear shots. Suitable also for hunting small deer and antelope without any waste of edible meat.



10

Cuthead (10) is a competition and training bullet for reloaders. Its cutter groove cuts a clean hole for easy score interpretation. Cuthead is available as reloading component in two versions: 145A, 8 g/123 grs Full Metal Jacket and 147A, 6,6 g/102 grs Hollow Point boat tail. Both in caliber .30. In 2005 you will find the cuthead bullet (145A) also in the Sako Range training cartridges.





There's a way to hone your shooting skills without blowing up your wallet. Sako Range gives you training and competition cartridges in selected popular calibers and in large affordable boxes. You can now burn the powder as long as your shoulder can take it.

Sako Range cartridges				
Caliber	Type	Weight, g / grs	Muzzle velocity, m/s	Box, pcs
222 Rem	Range	3,2 / 50	975	100
6,5x55 SE	Range	6,5 / 100	800	50
308 Win	Range	8,0 / 123	900	50
308 Win	Super Range	6,6 / 102	950	50
7.62x53R	Range	8,0 / 123	900	50
30-06 Sprg	Range	8,0 / 123	900	50
9,3x62	Range	15,0 / 231	770	50

*Cuthead provides excellent accuracy and easy score interpretation. 145A ( 8 g / 123 grs ) pictured. In 2005 Sako Range cartridges in .380Win, 7.62x53R and 30-06 Sprg will feature the 8g/123grs Cuthead bullet.*

You learn the performance of your ammunition with a lot of practice. It is recommended to use the same manufacturer's cartridges for training as you use for hunting. For this reason Sako has designed a "heavy user" selection of range cartridges that come in boxes of 50 or 100. Their affordability is due to high volume and no-frills packaging, the benefits of which we transfer directly to you. However, the quality standard is the same as in Sako's hunting cartridges. The logic is simple – we want you to have an opportunity to be the best you can.

#### SAKO RELOADING COMPONENTS

Sako cases and bullets have the tough quality, high accuracy and durability that makes them popular with reloaders. Our high-quality brass cases are great favorites as they have the reputation for outlasting the competition. They have been tested to sustain repeated loading noticeably better than standard cases. The easiest way to get quality cases is to buy Sako Range competition and training cartridges – and get the first shot off without hassle. Sako bullets cater to special needs. For example, the Cuthead competition and training bullet's cutter groove cuts a clean hole for easy score interpretation. For highly customized properties, we also manufacture tailored cases to order. Please write or call - we will be happy to tell you more.

**Warning:** As the use of proper reloading procedures is beyond our control, we assume no liability or give any warranty against damages or injuries caused by use of reloads in these cases. Improper and poorly made reloads can ruin your rifle. They can also be dangerous to the shooter and bystanders and may cause serious injuries or death. No rifle manufacturer, including ourselves, gives any warranty on rifles when reloads are used.

CALIBER	BULLET		Weight									Primer	POWDER		Charge				VELOCITY m/s				ENERGY joules				TRAJECTORY cm/m (muzzle -4.5 cm)						GEE			PACKING			
	Code	Type		Gr	Grs									Vihtavuori	Gramm/Grs		0	100	200	300	0	100	200	300	0	100	150	200	250	300	m	Box	Case						
22 PPC USA	111G	RACEHEAD		3.4	52	—	•	—		•	SR	N130	1.60 / 24.7	1035	900	775	655	1821	1377	1021	730	-0.3	1.4	0	-4.6	-13.5	-27.2	191	20	500				S HAMMERHEAD = SPBT Bonded core					
222 Rem	105G	SPEEDHEAD	+	3.2	50	—	•	•		•	SR	N120	1.25 / 19.3	975	800	638	515	1540	1028	660	428	0.4	2.1	0	-8.0	-21.3	-42.0	175	20	1000				HAMMERHEAD = SP Bonded core					
222 Rem	106G	GAMEHEAD	+	3.2	50	—	•	—		•	SR	N120	1.25 / 19.3	975	800	638	515	1540	1028	660	428	0.4	2.1	0	-8.0	-21.3	-42.0	175	20	1000				POWERHEAD = Barnes-X®					
222 Rem	110G	GAMEHEAD	+	3.56	55	—	•	—		•	SR	N130	1.40 / 21.6	1000	842	700	573	1780	1261	871	585	0.1	1.7	0	-5.9	-17.2	-34.4	181	20	1000				TWINNHEAD = Nosler Partition®					
222 Rem	482G	POWERHEAD		3.2	50	—	•	•		•	SR	N130	1.40 / 21.6	975	807	662	540	1540	1056	710	472	0.4	2.1	0	-6.6	-19.7	-39.0	177	20	1000				ARROWHEAD = Nosler Ballistic Tip®					
222 Rem	111G	RACEHEAD		3.4	52	—	•	—		•	SR	N120	1.15 / 17.7	925	785	660	550	1455	1048	741	514	0.6	2.3	0	-7.0	-19.9	-39.4	172	20	1000				RAMHEAD = Barnes Solid®					
222 Rem	105G	RANGE	+	3.2	50	—	•	•		•	SR	N120	1.25 / 19.3	975	800	638	515	1540	1028	660	428	0.4	2.1	0	-8.0	-21.3	-42.0	175	100	1000				SPEEDHEAD = Full metal jacket					
222 Rem Mag	105G	SPEEDHEAD	+	3.2	50	—	•	•		•	SR	N120	1.38 / 21.3	985	805	646	522	1572	1051	677	441	0.3	2.0	0	-7.8	-20.8	-40.9	177	20	1000				GAMEHEAD = Soft point					
222 Rem Mag	106G	GAMEHEAD	+	3.2	50	—	•	—		•	SR	N120	1.38 / 21.3	985	805	646	522	1572	1051	677	441	0.3	2.0	0	-7.8	-20.8	-40.9	177	20	1000				RANGE = Full metal jacket					
222 Rem Mag	110G	GAMEHEAD	+	3.56	55	—	•	—		•	SR	N130	1.57 / 24.2	1015	855	711	584	1834	1301	901	607	0	1.6	0	-5.7	-16.5	-33.1	184	20	1000				SUPER RANGE = Hollow point BT					
223 Rem	105G	SPEEDHEAD	+	3.2	50	—	•	•		•	SR	N120	1.40 / 21.6	985	805	646	522	1572	1051	677	441	0.3	2.0	0	-7.8	-20.8	-40.9	177	20	1000				RACEHEAD = Sierra Match-King®					
223 Rem	106G	GAMEHEAD	+	3.2	50	—	•	—		•	SR	N120	1.40 / 21.6	985	805	646	522	1572	1051	677	441	0.3	2.0	0	-7.8	-20.8	-40.9	177	20	1000									
223 Rem	110G	GAMEHEAD	+	3.56	55	—	•	—		•	SR	N130	1.57 / 24.2	1015	855	711	584	1834	1301	901	607	0	1.6	0	-5.7	-16.5	-33.1	184	20	1000									
22-250 Rem	105G	SPEEDHEAD	+	3.2	50	—	•	•		•	LR	N140	2.30 / 35.5	1150	950	776	623	2142	1461	976	630	-0.6	1.1	0	-4.4	-12.8	-26.3	199	20	500				BT = Boat tail					
22-250 Rem	106G	GAMEHEAD	+	3.2	50	—	•	—		•	LR	N140	2.30 / 35.5	1150	950	776	623	2142	1461	976	630	-0.6	1.1	0	-4.4	-12.8	-26.3	199	20	500				SP = Soft point					
22-250 Rem	110G	GAMEHEAD	+	3.56	55	—	•	—		•	LR	N140	2.32 / 35.8	1115	945	790	651	2213	1590	1111	755	-0.6	1.1	0	-4.4	-12.7	-25.8	199	20	500				LR = Large Rifle					
243 Win	114E	SPEEDHEAD	+	5.8	90	—	•	•		•	LR	N140	2.25 / 34.7	870	781	700	625	2195	1770	1421	1131	0.8	2.5	0	-6.9	-18.8	-36.2	171	20	500				SR = Small Rifle					
243 Win	112E	GAMEHEAD	+	5.8	90	—	•	•		•	LR	N160	2.95 / 45.5	955	861	775	695	2645	2148	1740	1398	0.2	1.8	0	-5.4	-14.8	-28.8	187	20	500				LRM = Large Rifle Magnum					
243 Win	484E	POWERHEAD		5.5	85	—	•	•		•	LR	N160	3.05 / 47.1	980	898	820	747	2642	2217	1850	1534	-0.1	1.5	0	-4.8	-13.2	-25.7	194	20	500									
243 Win	121E	TWINHEAD		6.5	100	—	•	•	—		•	LR	N160	2.75 / 42.4	935	852	773	700	2840	2358	1944	1590	0.2	1.8	0	-5.5	-15.0	-29.2	185	20	500								
25-06 Rem	125E	GAMEHEAD		7.6	117	—	•	•		•	LR	N160	2.95 / 45.5	910	829	753	681	3105	2579	2128	1740	0.4	1.9	0	-5.8	-16.0	-30.9	182	20	500									
6.5x55 SE	119E	RACEHEAD		9.0	139	—	•	•	—		•	LR	N160	2.75 / 42.4	850	803	758	714	3251	2903	2587	2296	0.7	2.2	0	-6.2	-16.7	-31.7	175	20	500								
6.5x55 SE	120E	GAMEHEAD		10.1	156	—	•	•	•	—	•	LR	N160	2.70 / 41.7	800	720	644	574	3232	2616	2096	1662	1.4	3.1	0	-8.4	-22.7	-43.6	159	20	500								
270 Win	211B	HAMMERHEAD	+	10.1	156	—	•	•	•	—	•	LR	N160	3.37 / 52.0	840	745	660	581	3563	2805	2200	1705	1.2	2.8	0	-7.7	-21.1	-40.8	164	20	500								
7x33 Sako	108B	SPEEDHEAD	+	5.1	78	—	•	•	—		•	SR	N110	1.07 / 16.5	740	571	437	344	1396	832	487	303	3.6	5.9	0	-15.4	-43.9	-87.8	139	50	1000								
7x33 Sako	109B	GAMEHEAD	+	5.1	78	—	•	•	—		•	SR	N110	1.07 / 16.5	740	571	437	344	1396	832	487	303	3.6	5.9	0	-15.4	-43.9	-87.8	139	50	1000								
7x64	121B	GAMEHEAD		7.8	120	—	•	•	•		•	LR	N140	3.35 / 51.7	945	850	760	680	3483	2820	2255	1802	0.1	1.7	0	-5.5	-16.0	-30.7	185	20	500								
7x64	216B	HAMMERHEAD	+	11.0	170	—	•	•	•	—	•	LR	N160	3.40 / 52.5	850	775	705	640	3974	3304	2735	2255	0.9	2.4	0	-7.2	-19.2	-36.5	170	20	500								
7x65R	216B	HAMMERHEAD	+	11.0	170	—	•	•	•	—	•	LR	N160	3.30 / 50.9	800	728	662	599	3520	2917	2409	1976	1.4	3.1	0	-8.1	-21.8	-41.6	160	20	500								
7 mm Rem Mag	122B	GAMEHEAD		9.1	140	—	•	•	•		•	LRM	N160	4.00 / 61.7	960	886	815	750	4193	3570	3023	2552	0.0	1.6	0	-5.1	-13.7	-26.2	192	20	500								
7 mm Rem Mag	216B	HAMMERHEAD	+	11.0	170	—	•	•	•	—	•	LRM	N160	3.80 / 58.6	905	827	753	685	4505	3759	3121	2580	0.4	2.0	0	-5.9	-16.4	-31.4	180	20	500								
7.62x39	117A	SPEEDHEAD	+	8.0	123	—	•	•	—		•	LR	N125	1.70 / 26.2	715	632	555	487	2045	1598	1233	948	2.7	4.4	0	-11.4	-31.6	-60.4	142	250	250								
7.62x39	134A	GAMEHEAD	+	8.0	123	—	•	•	—		•	LR	N125	1.70 / 26.2	715	632	555	487	2045	1598	1233	948	2.7	4.4	0	-11.4	-31.6	-60.4	142	20	500								
308 Win	120A	SPEEDHEAD	+	8.0	123	—	•	•	•		•	LR	N140	3.00 / 46.3	890	791	701	620	3168	2502	1965	1535	0.7	2.4	0	-6.7	-18.7	-36.2	173	20	500								
308 Win	129A	GAMEHEAD	+	8.0	123	—	•	•	•		•	LR	N140	3.10 / 47.8	925	825	733	648	3423	2722	2147	1681	0																



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