



LAPUA



PRODUCT CATALOG • 2025

UPCOMING **LAPUA® BULLETS** FOR 2025!

MaxRange Target

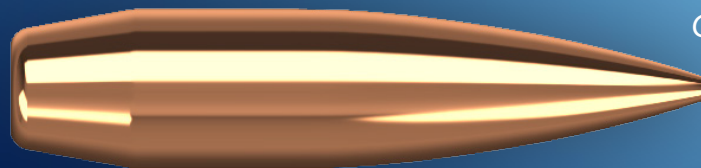
The new Long Range Match bullets from Lapua

We are proud to unveil our latest innovation in precision shooting: the HBC MaxRange Target bullet – a high-performance bullet designed for accuracy and consistency, whether you're competing or practicing. Introducing, the GB581 .30 cal HBC MaxRange Target and the GB582 6,5 mm HBC MaxRange Target projectiles.

Crafted for discerning Long Range shooters competing in various disciplines, this boat-tailed projectile offers a streamlined trajectory, optimized ballistics and improved stability for extended distances. The result? Unmatched long-range performance that hits your target with pinpoint precision, shot after shot.

Engineered with superior quality materials, Lapua's MaxRange Target delivers exceptional reliability and durability, allowing you to push your limits without compromise. The MaxRange Target has been developed to produce a high BC (Ballistic coefficient) whilst still adhering to C.I.P. standards, making it the perfect projectile for utmost accuracy. Whether you're a seasoned marksman or a competitive shooter, this bullet offers the consistency you need for success in every shot.

Elevate your shooting experience with the MaxRange Target – where precision meets performance. Ready to take your target accuracy to the next level?



GB581



GB582



UPCOMING LAPUA® CASES

6mm Dasher Cartridge Cases

The 6mm Dasher has long been a popular and versatile cartridge for many precision shooting disciplines on the firing line, yet also for use in the field. Activities such as Benchrest, long-range varmint hunting, and of recent years, Precision Rifle sports has offered the Dasher a resurgence in popularity.

Lapua 6mm Dasher cases use only the highest quality materials and manufacturing processes to satisfy the demands of reloaders who seek the pinnacle of precision from their firearm platforms. Lapua is known to exceed the quality and

longevity of all other manufacturers and is the number one component choice of competitive long-range shooters, hunters, and reloading hobbyists.

Competitors shooting PRS, Benchrest, and similar long-range disciplines have urged us to develop a 6mm Dasher case with unmatched quality and superior cartridge geometry to those currently offered in the marketplace. We are up for the challenge!

6mm Dasher



NEW FOR 2025!

7mm PRC Cartridge Cases

We're proud to announce the addition of 7mm PRC Cartridge Cases for long-range precision shooters, hunters, and accuracy enthusiasts.

The 7mm PRC effortlessly delivers heaviest-in-class .284 caliber projectiles, which are coveted in today's precision shooting and long-range hunting disciplines with extremely high-performance characteristics. However, reloaders and shooters alike have suffered from the lack of quality components and ammunition to fuel their firearms. Available in fall 2025, Lapua will begin offering superior quality 7mm PRC cartridge cases for its loyal followers.

Lapua cartridge cases are known to far exceed the quality and longevity of all other manufacturers and are the component choice of competitive long-range shooters and hunters. Lapua uses only the highest quality materials and manufacturing processes to achieve their world-renowned "exacting tolerances." Precision reloaders demand Lapua components first for their shooting discipline.

7mm PRC reloading enthusiasts will now have Lapua cartridge cases to build the highest quality handloads for their long-range target rifles and custom hunting platforms. We thank you for sharing your Passion for Precision!

7mm PRC



Introducing our new app: Lapua Hunt

Lapua Hunt is the digital tool for Hunters respecting the game as well as accuracy and safety. The app uses the same ballistics calculation engine and Lapua product data as Lapua Ballistics. Add your own rifle and reticle, select the best ammo and game category, and you are ready to enjoy hunting success from boars to bears!





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LAPUA® CENTERFIRE CARTRIDGES

.222 Remington		Bullet weight & type: 3.6 g / 55 gr FMJ				Product no. 4315021	
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		168 GEE * 184 PBR *		
	m / sec 910	fps 2985	G1 0.230	G7 -			
.222 Remington		Bullet weight & type: 3.6 g / 55 gr Soft Point					Product no. 4315030
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		163 GEE * 175 PBR *		
	m / sec 880	fps 2887	G1 0.185	G7 -			
.222 Remington		Bullet weight & type: 3.2 g / 50 gr Naturalis					Product no. N315025
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		176 GEE * 198 PBR *		
	m / sec 965	fps 3166	G1 0.197	G7 -			
.223 Remington		Bullet weight & type: 3.6 g / 55 gr FMJ					Product no. 4315042
 SPORT / HUNT / TACTICAL	Muzzle velocity		Ballistic coefficient		181 GEE * 198 PBR *		
	m / sec 955	fps 3133	G1 0.255	G7 -			
.223 Remington		Bullet weight & type: 3.2 g / 50 gr Naturalis					Product no. N315026
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		185 GEE * 202 PBR *		
	m / sec 1015	fps 3330	G1 0.197	G7 -			
.223 Remington		Bullet weight & type: 4.5 g / 69 gr OTM Scenar-L					Product no. 4315015
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec 830	fps 2723	G1 0.341	G7 0.171			
.243 Winchester		Bullet weight & type: 5.8 g / 90 gr FMJ					Product no. 4316052
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		176 GEE * 192 PBR *		
	m / sec 885	fps 2905	G1 -	G7 -			
.243 Winchester		Bullet weight & type: 5.8 g / 90 gr Naturalis					Product no. N316201
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		167 GEE * 183 PBR *		
	m / sec 910	fps 2985	G1 0.230	G7 -			
6 mm BR Norma		Bullet weight & type: 5.8 g / 90 gr OTM Scenar-L					Product no. 4316044
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 900	fps 2950	G1 0.434	G7 0.216			

* Point-Blank Range (PBR)

* Die günstigste Einschußentfernung (GEE)

6 mm BR Norma		Bullet weight & type: 6.8 g / 105 gr OTM Scenar-L				Product no. 4316047	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 815	fps 2674	G1 0.472	G7 0.236			
6.5x47 Lapua		Bullet weight & type: 7.8 g / 120 gr OTM Scenar-L				Product no. 4316017	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 845	fps 2772	G1 0.497	G7 0.246			
6.5x47 Lapua		Bullet weight & type: 8.0 g / 123 gr OTM Scenar				Product no. 4316011	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 850	fps 2790	G1 0.527	G7 0.263			
6.5x47 Lapua		Bullet weight & type: 8.8 g / 136 gr OTM Scenar-L				Product no. 4316016	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 800	fps 2625	G1 0.545	G7 0.274			
6.5x47 Lapua		Bullet weight & type: 9.0 g / 139 gr OTM Scenar				Product no. 4316012	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 820	fps 2690	G1 0.578	G7 0.290			
6.5x47 Lapua		Bullet weight & type: 9.1 g / 140 gr Naturalis				Product no. N316301	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		150 GEE * 165 PBR * 		
	m / sec 807	fps 2648	G1 0.201	G7 -			
6.5 Creedmoor		Bullet weight & type: 8.0 g / 123 gr OTM Scenar				Product no. 4316060	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec 850	fps 2790	G1 0.527	G7 0.263			
6.5 Creedmoor		Bullet weight & type: 8.8 g / 136 gr OTM Scenar-L				Product no. 4316063	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 835	fps 2740	G1 0.545	G7 0.274			
6.5 Creedmoor		Bullet weight & type: 9.1 g / 140 gr Naturalis				Product no. N316401	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		148 GEE * 160 PBR * 		
	m / sec 815	fps 2674	G1 0.472	G7 0.236			

LAPUA® CENTERFIRE CARTRIDGES

6.5 Creedmoor		Bullet weight & type: 10.1 g / 156 gr Soft Point (MEGA)				Product no. 4316064	
 HUNT	Muzzle velocity		Ballistic coefficient		156 GEE * 171 PBR *		
	m / sec 780	fps 2559	G1 0.377	G7 -			
.260 Remington		Bullet weight & type: 8.8 g / 136 gr OTM Scenar-L					Product no. 4316065
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 814	fps 2671	G1 0.545	G7 0.274			
6.5x55 SE		Bullet weight & type: 6.5 g / 100 gr FMJ					Product no. 4316033
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		159 GEE * 174 PBR *		
	m / sec 830	fps 2723	G1 0.250	G7 -			
6.5x55 SE		Bullet weight & type: 6.5 g / 100 gr OTM Scenar					Product no. 4316035
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 800	fps 2625	G1 0.424	G7 0.212			
6.5x55 SE		Bullet weight & type: 7.0 g / 108 gr OTM Scenar					Product no. 4316031
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 900	fps 2950	G1 0.465	G7 0.231			
6.5x55 SE		Bullet weight & type: 7.8 g / 120 gr OTM Scenar-L					Product no. 4316038
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 830	fps 2723	G1 0.497	G7 0.246			
6.5x55 SE		Bullet weight & type: 7.8 g / 120 gr OTM Scenar-L					Product no. 4316039
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 920	fps 3018	G1 0.497	G7 0.246			
6.5x55 SE		Bullet weight & type: 8.0 g / 123 gr OTM Scenar					Product no. 4316032
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 830	fps 2723	G1 0.527	G7 0.263			
6.5x55 SE		Bullet weight & type: 8.0 g / 123 gr OTM Scenar					Product no. 4316036
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec 920	fps 3015	G1 0.527	G7 0.263			

* Point-Blank Range (PBR)

* Die günstigste Einschußentfernung (GEE)

6.5x55 SE		Bullet weight & type: 8.8 g / 136 gr OTM Scenar-L				Product no. 4316040	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	815	2674	0.545	0.274			
6.5x55 SE		Bullet weight & type: 9.0 g / 139 gr OTM Scenar				Product no. 4316030	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	800	2625	0.424	0.212			
6.5x55 SE		Bullet weight & type: 9.1 g / 140 gr Naturalis				Product no. N316102	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		152 GEE * 164 PBR *		
	m / sec	fps	G1	G7			
	800	2625	0.201	-			
6.5x55 SE		Bullet weight & type: 10.1 g / 156 gr Soft Point (MEGA)				Product no. 4316021	
 HUNT	Muzzle velocity		Ballistic coefficient		156 GEE * 171 PBR *		
	m / sec	fps	G1	G7			
	780	2559	0.377	-			
7x64		Bullet weight & type: 10.1 g / 156 gr Naturalis				Product no. N317322	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		163 GEE * 173 PBR *		
	m / sec	fps	G1	G7			
	840	2756	0.280	-			
7x65R		Bullet weight & type: 10.1 g / 156 gr Naturalis				Product no. N317323	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		163 GEE * 173 PBR *		
	m / sec	fps	G1	G7			
	840	2756	0.280	-			
.308 Winchester		Bullet weight & type: 8.0 g / 123 gr FMJ				Product no. 4317527	
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		173 GEE * 189 PBR *		
	m / sec	fps	G1	G7			
	895	2936	0.270	-			
.308 Winchester		Bullet weight & type: 9.7 g / 150 gr Soft Point (MEGA)				Product no. 4317498	
 HUNT	Muzzle velocity		Ballistic coefficient		168 GEE * 184 PBR *		
	m / sec	fps	G1	G7			
	850	2790	0.330	-			
.308 Winchester		Bullet weight & type: 10.0 g / 155 gr OTM Scenar-L				Product no. 4317076	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	860	2820	0.460	0.230			

LAPUA® CENTERFIRE CARTRIDGES

.308 Winchester		Bullet weight & type: 10.85 g / 167 gr OTM Scenar				Product no. 4317515	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	820	2690	0.446	0.223			
.308 Winchester		Bullet weight & type: 11.0 g / 170 gr Lock Base				Product no. 4317596	
 SPORT / HUNT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	840	2756	0.498	0.249			
.308 Winchester		Bullet weight & type: 11.0 g / 170 gr Lock Base Semi-Auto				Product no. 43M7600	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	744	2441	0.498	0.249			
.308 Winchester		Bullet weight & type: 11.0 g / 170 gr Naturalis				Product no. N317105	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		159 GEE * 174 PBR *		
	m / sec	fps	G1	G7			
	800	2625	0.354	0.177			
.308 Winchester		Bullet weight & type: 11.3 g / 175 gr OTM Scenar-L				Product no. 4317520	
 SPORT	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	793	2602	0.490	0.247			
.308 Winchester		Bullet weight & type: 12.0 g / 185 gr OTM Scenar				Product no. 4317523	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	755	2475	0.482	0.242			
.308 Winchester		Bullet weight & type: 12.0 g / 185 gr Soft Point (MEGA)				Product no. 4317189	
 HUNT	Muzzle velocity		Ballistic coefficient		151 GEE * 165 PBR *		
	m / sec	fps	G1	G7			
	765	2690	0.319	-			
.308 Winchester		Bullet weight & type: 12.0 g / 185 gr FMJBT				Product no. 4317590	
 SPORT / HUNT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	760	2490	0.506	0.254			
.308 Winchester		Bullet weight & type: 13.0 g / 200 gr FMJBT				Product no. 4317340	
 TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec	fps	G1	G7			
	325	1066	0.518	0.235			

* Point-Blank Range (PBR)

* Die günstigste Einschußentfernung (GEE)

.30-06 Springfield		Bullet weight & type: 8.0 g / 123 gr FMJ				Product no. 4317577	
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		173 GEE *		
	m / sec 895	fps 2936	G1 0.270	G7 -	189 PBR *		
.30-06 Springfield		Bullet weight & type: 11.0 g / 170 gr Naturalis				Product no. N317106	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		165 GEE *		
	m / sec 830	fps 2723	G1 0.354	G7 0.177	180 PBR *		
.30-06 Springfield		Bullet weight & type: 12.0 g / 185 gr Soft point (MEGA)				Product no. 4317563	
 HUNT	Muzzle velocity		Ballistic coefficient		157 GEE *		
	m / sec 800	fps 2625	G1 0.319	G7 -	172 PBR *		
.30-06 Springfield		Bullet weight & type: 13.0 g / 200 gr Soft Point (MEGA)				Product no. 4317567	
 HUNT	Muzzle velocity		Ballistic coefficient		154 GEE *		
	m / sec 775	fps 2545	G1 0.344	G7 -	168 PBR *		
.300 Win Mag.		Bullet weight & type: 11.0 g / 170 gr Naturalis				Product no. N317204	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		178 GEE *		
	m / sec 902	fps 2959	G1 0.354	G7 0.177	195 PBR *		
.300 Win Mag.		Bullet weight & type: 12.0 g / 185 gr Soft Point (MEGA)				Product no. 4317312	
 HUNT	Muzzle velocity		Ballistic coefficient		163 GEE *		
	m / sec 830	fps 2723	G1 0.319	G7 -	178 PBR *		
.300 Win Mag.		Bullet weight & type: 12.0 g / 185 gr OTM Scenar				Product no. 4317308	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient				
	m / sec 900	fps 2953	G1 0.482	G7 0.242			
8x57 IRS		Bullet weight & type: 11.7 g / 180 gr Naturalis				Product no. N318010	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		159 GEE *		
	m / sec 800	fps 2625	G1 0.248	G7 -	190 PBR *		
8x57 IS		Bullet weight & type: 7.8 g / 120 gr Open Tip				Product no. 4318029	
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		178 GEE *		
	m / sec 940	fps 3084	G1 0.248	G7 -	194 PBR *		

8x57 IS		Bullet weight & type: 11.7 g / 180 gr Naturalis			Product no. N318009	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		163 GEE * 178 PBR *	
	m / sec	fps	G1	G7		
	820	2690	0.357	0.179		
.338 Lapua Mag.		Bullet weight & type: 15.0 g / 231 gr Naturalis			Product no. N318020	
 HUNT - LEAD FREE BULLET / TACTICAL	Muzzle velocity		Ballistic coefficient		178 GEE * 200 PBR *	
	m / sec	fps	G1	G7		
	920	3018	0.373	-		
.338 Lapua Mag.		Bullet weight & type: 16.2 g / 250 gr OTM Scenar			Product no. 4318017	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	905	2970	0.648	0.322		
.338 Lapua Mag.		Bullet weight & type: 16.2 g / 250 gr Lock Base			Product no. 4318033	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	900	2953	0.625	0.310		
.338 Lapua Mag.		Bullet weight & type: 19.4 g / 300 gr OTM Scenar			Product no. 4318013	
 SPORT / TACTICAL	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	820	2690	0.736	0.368		
9.3x62		Bullet weight & type: 12.0 g / 185 gr Open Tip			Product no. 4319012	
 SPORT / HUNT	Muzzle velocity		Ballistic coefficient		164 GEE * 179 PBR *	
	m / sec	fps	G1	G7		
	845	2772	0.283	-		
9.3x62		Bullet weight & type: 16.2 g / 250 gr Naturalis			Product no. N319204	
 HUNT - LEAD FREE BULLET	Muzzle velocity		Ballistic coefficient		150 GEE * 164 PBR *	
	m / sec	fps	G1	G7		
	740	2428	0.419	0.215		
9.3x62		Bullet weight & type: 18.5 g / 285 gr Soft Point (MEGA)			Product no. 4319010	
 HUNT	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	690	2265	0.339	-		
.32 S&W Long Wadcutter		Bullet weight & type: 5.35 g / 83 gr Lead Wadcutter LWC			Product no. 4318023	
 SPORT	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	240	787	0.029	-		
.32 S&W Long Wadcutter		Bullet weight & type: 6.35 g / 98 gr Lead Wadcutter LWC			Product no. 4318026	
 SPORT	Muzzle velocity		Ballistic coefficient			
	m / sec	fps	G1	G7		
	240	787	0.041	-		

* Point-Blank Range (PBR) * Die günstigste Einschußentfernung (GEE)

LAPUA® RIMFIRE CARTRIDGES

.22 LR cartridges

Cartridge type	Muzzle velocity		Ballistic coefficient		
X-Act Bullet weight: 2.59 g / 40 gr Product no. 420161	m / sec	fps	G1		
Midas+ Bullet weight: 2.59 g / 40 gr Product no. 420162	m / sec	fps	G1		
Center-X Bullet weight: 2.59 g / 40 gr Product no. 420163	m / sec	fps	G1		
Pistol King Bullet weight: 2.59 g / 40 gr Product no. 420164	m / sec	fps	G1		
Pistol OSP Bullet weight: 2.59 g / 40 gr Product no. 420165	m / sec	fps	G1		
Polar Biathlon Bullet weight: 2.59 g / 40 gr Product no. 420166	m / sec	fps	G1		
Long Range Bullet weight: 2.59 g / 40 gr Product no. 420168	m / sec	fps	G1		
Super Long Range Bullet weight: 2.59 g / 40 gr Product no. 420167	m / sec	fps	G1		

SCAN THE QR-CODES FOR MORE DETAILS ABOUT OUR CARTRIDGES.

LAPUA® CENTERFIRE CASES

		CALIBER:	PRODUCT NO.	
.222 Remington		5.69 mm [.224]	4PH5002	
.223 Remington		5.69 mm [.224]	4PH5003	
.220 Russian		5.69 mm [.224]	4PH5013	
.22-250 Remington		5.69 mm [.224]	4PH5001	
.243 Winchester		6 mm [.243]	4PH6009	
6 mm Creedmoor		6 mm [.243]	4PH6022	
6 mm BR Norma		6 mm [.243]	4PH6046	
6 mm GT		6 mm [.243]	4PH6060C	
6.5x55 SE		6.5 mm [.264]	4PH6012	
6.5-284		6.5 mm [.264]	4PH6030	
6.5x47 Lapua		6.5 mm [.264]	4PH6010	
6.5 Grendel		6.5 mm [.264]	4PH6020	
.260 Remington		6.5 mm [.264]	4PH6050	
6.5 Creedmoor (Small Rifle Primer)		6.5 mm [.264]	4PH6011	
6.5 Creedmoor (Large Rifle Primer)		6.5 mm [.264]	4PH6013	
6.5 PRC		6.5 mm [.264]	4PH6023	
7mm-08 Remington		7 mm [.284]	4PH7095	

SCAN THE QR-CODES FOR MORE DETAILS ABOUT OUR CASES.

		CALIBER:	PRODUCT NO.	
7x64		7 mm [.284]	4PH7105	
7x65R		7 mm [.284]	4PH7107	
.284 Winchester		7 mm [.284]	4PH7284	
.308 Winchester		7.62 mm [.308]	4PH7217	
7.62x53R		7.62 mm [.308]	4PH7215	
.308 Win. Palma		7.62 mm [.308]	4PH7226	
.300 Norma Mag.		7.62 mm [.308]	4PH7090	
.300 Win Mag.		7.62 mm [.308]	4PH7096	
.300 PRC		7.62 mm [.308]	4PH7098	
.300 WSM		7.62 mm [.308]	4PH7080C	
.30-06 Springfield		7.62 mm [.308]	4PH7068	
7.62x39		5.62 mm [.311]	4PH7074	
8x57 IS		8 mm [.323]	4PH8030	
8x57 IRS		8 mm [.323]	4PH8031	
.338 Lapua Mag.		8.61 mm [.338]	4PH8068	
.338 Norma Mag.		8.61 mm [.338]	4PH8090	
9.3x62		9.3 mm [.366]	4PH9050	

LAPUA® BULLETS

MaxRange Target



6.5 mm (6.71 mm / .264)
.30 (7.62 mm / .308)

9.3 g / 144 gr
11.3 g / 175 gr

We are proud to unveil our latest innovation in precision shooting: the HBC MaxRange Target bullet – a high-performance bullet designed for accuracy and consistency, whether you're competing or practicing. Crafted for discerning Long Range shooters competing in various disciplines, this boat-tailed projectile offers a streamlined trajectory, optimized ballistics and improved stability for extended distances. The MaxRange Target has been developed to produce a high BC (Ballistic coefficient) whilst still adhering to C.I.P. standards, making it the perfect projectile for utmost accuracy. The new Max RT bullets will be available for consumers in 2025.

Scenar (Open Tip Match)



The first choice for serious target competition. Lapua Scenar Open-Tip Match bullets have given superb results at long ranges and bench rest shooting. The Scenar bullets have the IBS World Record in 600 yard Heavy Gun 5-shot group (0.404") and also hold the official world ISSF record of 600 out of 600 possible, an unbeatable score.

6.5 mm (6.72 mm / .264)	6.5 g / 100 gr
6.5 mm (6.72 mm / .264)	7.0 g / 108 gr
6.5 mm (6.72 mm / .264)	8.0 g / 123 gr
6.5 mm (6.72 mm / .264)	9.0 g / 139 gr
.30 (7.83 / .308)	10.85 g / 167 gr
.30 (7.83 / .308)	12.0 g / 185 gr
.338 (8.61 mm / .339)	16.2 g / 250 gr
.338 (8.61 mm / .339)	19.4 g / 300 gr

Scenar-L (Open Tip Match)



The ultimate long range match bullet. The Scenar-L has the refined qualities of the original Scenar bullet with higher standards of jacket wall concentricity, weight variation and dimensional uniformity. Scenar-L has truly earned its reputation as the go-to bullet for the best possible results in long range rifle shooting. For top shooters in the world in bench rest, long range or F-class, Scenar-L is the ultimate match bullet, proven by the countless long range records set using it.

.224 (5.69 mm / .224)	4.5 g / 69 gr
.224 (5.69 mm / .224)	5.0 g / 77 gr
6 mm (6.16 mm / .243)	5.8 g / 90 gr
6 mm (6.16 mm / .243)	6.8 g / 105 gr
6.5 mm (6.72 mm / .264)	7.8 g / 120 gr
6.5 mm (6.72 mm / .264)	8.8 g / 136 gr
7 mm (7.23 mm / .284)	9.7 g / 150 gr
7 mm (7.23 mm / .284)	11.7 g / 180 gr
.30 (7.83 / .308)	10.0 g / 155 gr
.30 (7.83 / .308)	11.3 g / 175 gr
.30 (7.83 / .308)	14.3 g / 220 gr

Naturalis (Lead free, expanding bullet)



Respecting the game. The bullet is designed and manufactured by using pure copper. The material, design and controlled expansion ensure a solid and nearly unbreakable construction. The weight retention of the bullet, even after impacting on heavy bone, is frequently 100% of its original weight.

.224 (5.69 mm / .224)	3.2 g / 50 gr
6 mm (6.16 mm / .243)	5.8 g / 90 gr
6.5 mm (6.72 mm / .264)	9.1 g / 140 gr
7 mm (7.23 mm / .284)	10.1 g / 156 gr
.30 (7.83 / .308)	11.0 g / 170 gr
8 mm (8.21 mm / .323)	11.7 g / 180 gr
.338 (8.61 mm / .339)	15.0 g / 231 gr
9.3 mm (9.3 mm / .366)	16.2 g / 250 gr

Mega (Soft point bullet)



For big game hunters. Lapua's Mega bullet is a soft point jacketed hunting bullet. The Mega is a traditional lead core bullet for all kinds of European and North American game, particularly large game hunting. The mechanical bonding locks the lead alloy in place, keeping the structure together at point of impact.

6.5 mm (6.72 mm / .264)	10.1 g / 156 gr
.30 (7.83 / .308)	9.72 g / 150 gr
.30 (7.83 / .308)	12.0 g / 185 gr
.30 (7.83 / .308)	13.0 g / 200 gr
9.3 mm (9.3 mm / .366)	18.5 g / 285 gr

Soft Point (Soft point bullet)



5.69 mm (.224)

3.6 g / 55 gr

Lapua's Soft Point bullet is designed for small game hunting where the rapid opening and mushrooming of the bullet are some of the most important characteristics. The Lapua Soft Point bullet is well known for its accuracy. This hunting bullet has proven its performance on the hunting fields and hunters can rely on its stopping power.

Cutting Edge (Cutting edge bullet, available in FMJ and Open Tip variations)



.30 (7.83 / .308)

6.5 g / 100 gr

An open tip bullet capable of incredible accuracy, the Cutting Edge leaves an easy to score hole in your target, thanks to its innovative design. When you are looking for the best short range target bullet for paper-punching, your choice is the .30 caliber G477 6.5 g / 100 gr OT Cutting Edge. This bullet typically achieves groups of under 25 mm at 100 m shooting distances.

D46 (Full Metal Jacket Boat Tail)



.30 (7.83 / .308)

12.0 g / 185 gr

Often copied, never equaled. The legendary D46 is one by which all others of its type are measured. Manufactured to the strictest tolerances for concentricity, uniformity of shape and weight, it has shot its way to the record books since the 1930's all the way to the 21st century. The D46 is available in caliber 7.62 mm (.308) as a 12 gram / 185 grain bullet.

D166 (Full Metal Jacket Boat Tail)



7.62 mm (7.87 mm / .310)

13.0 g / 200 gr

The D166 boat tail bullet sports the same design as the legendary D46 bullet, but with a larger diameter. Lapua's D166 bullet has been used in Finnish military applications since 1936 and it still has a great reputation among traditional mid-range and long range rifle target shooters.

FMJ (Full Metal Jacket)



.224 (5.69 mm / .224)

3.6 g / 55 gr

6.5 mm (6.72 mm / .264)

6.5 g / 100 gr

6.5 mm (6.72 mm / .264)

9.3 g / 144 gr

.30 (7.83 / .308)

8.0 g / 123 gr

Whether you require bullets for training, competitions or serious hunting situations you can really trust the performance of Lapua's FMJ bullet family. Ten rounds loaded with Lapua's .30 S374 8.0 g / 123 gr FMJ bullet from 100m can easily achieve groupings less than 30 mm. Reliability means that every shot you fire will hit the target.

Open Tip (Open tip bullet)



.30 (7.83 mm / .308)

6.5 / 100 gr

8 mm (8.21 mm / .323)

7.8 g / 120 gr

9.3 mm (9.3 mm / .366)

12.0 g / 185 gr

The Lapua Open Tip bullets are the first choice for superior accuracy in various rifle competitions. The Open Tip Match (OTM) bullets have shown superb results in mid-range rifle shooting and bench rest shooting. An easy and softly firing bullet that meets Lapua's strict accuracy requirements.

Lock Base (Full Metal Jacket Boat Tail)



.30 (7.83 / .308)

11.0 g / 170 gr

.338 (8.61 mm / .339)

16.2 g / 250 gr

Lapua's Lock Base bullet is a Lapua innovation which combines a full metal jacket and boat tail with a patented base design. This bullet has proven its worth in sport shooting arenas as well as military and law enforcement applications over time.



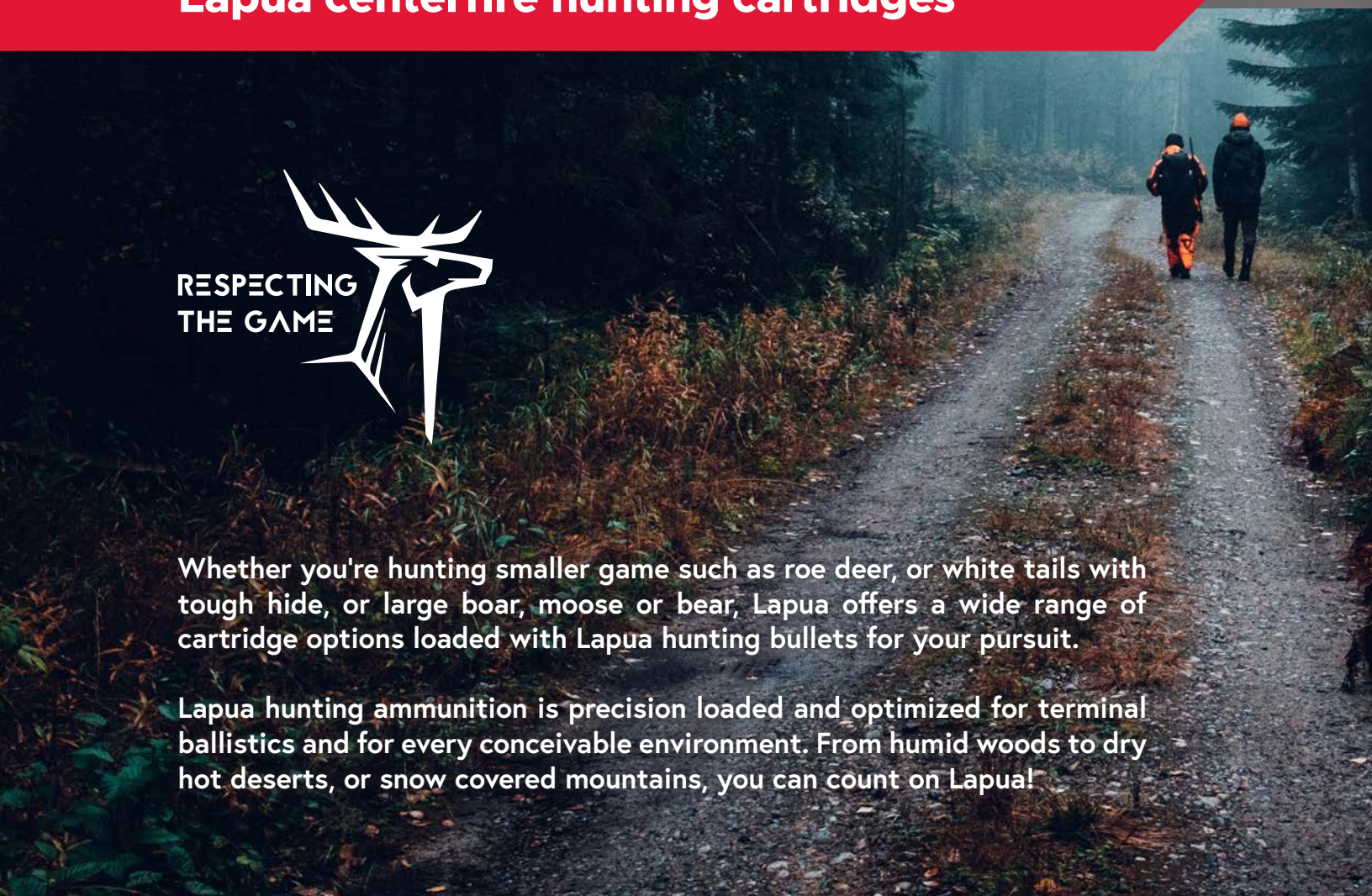


Lapua centerfire hunting cartridges



Whether you're hunting smaller game such as roe deer, or white tails with tough hide, or large boar, moose or bear, Lapua offers a wide range of cartridge options loaded with Lapua hunting bullets for your pursuit.

Lapua hunting ammunition is precision loaded and optimized for terminal ballistics and for every conceivable environment. From humid woods to dry hot deserts, or snow covered mountains, you can count on Lapua!



LEAD-FREE EXCELLENCE WITH LAPUA NATURALIS COPPER BULLETS



The Naturalis bullet is designed and manufactured by using pure copper. The material, design and controlled expansion ensures a solid and nearly unbreakable construction. The weight retention, even after impacting on heavy bone, is frequently 100% of the bullet's original weight. The boat tail design of the bullet eases reloading, and together with the streamlined ogive it provides improved downrange ballistics.

The Naturalis bullet, by design, begins to mushroom immediately upon impact. The expansion process begins with the bullet tip cavity which expands symmetrically and without fragmentation. This provides maximum energy transfer to the animal, minimizes the meat loss, and provides a quick and ethical kill.

Mushrooming of .30 Naturalis –bullet with different point of impact velocities



482 m/s -> 11.0 g
1581 fps -> 170 gr

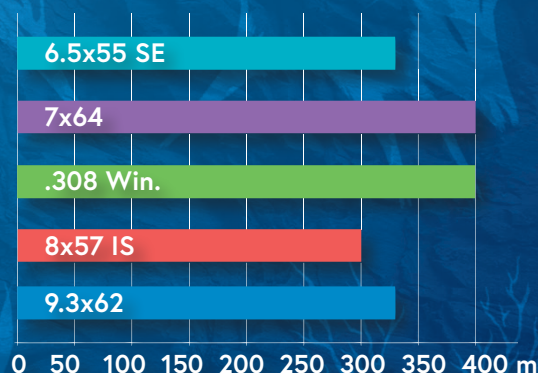


791 m/s -> 11.0 g
2595 fps -> 170 gr



908 m/s -> 10.9 g
2979 fps -> 168 gr

EFFECTIVE RANGE



MEGA FOR BIG GAME

The Lapua Mega is a soft point bullet designed for big game hunting. It features a traditional lead-core and copper jacket that are bonded for maximum weight retention after impact and expansion. The Mega has a long jacket that protects the core and prevents premature expansion, or breakage, when the bullet travels through brush or grass cover.

The Mega's mechanical bonding locks the core firmly within the jacket and will not separate even on the hardest impact. It typically doubles its caliber width upon impact, causing an immediate shock effect, yet retains up to 97% of its original weight.



LAPUA®

TACTICAL AMMUNITION

The most accurate long-range cartridges

Lapua is world renowned for offering the highest quality ammunition for elite forces and Mil/LE professionals around the globe. The accuracy and reliability of Lapua's tactical ammunition is renowned worldwide. Each cartridge is manufactured with the same unconditional precision and care as our leading sport shooting target ammunition. Our pinnacle of precision and quality is the 338 Lapua Magnum, which has an effective range out to 1,500 meters. Despite this, 338 Lapua Magnum operating systems are about the same size and weight as 6.5mm and 7.62mm systems. It's considerably lighter than the .50 caliber system making it an exceptional alternative to other platforms.

TACTICAL BULLETS // BALLISTIC COEFFICIENT

6.5 MM / .264 BULLETS

BULLET NAME	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
			> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	
Scenar	8,0 g / 123 gr	GB489	0,536	0,523	0,483	0,441		0.263
Scenar-L	8,8 g / 136 gr	GB546	0,564	0,539	0,521	0,533		0.274
Armour Piercing	9,4 g / 145 gr	AP570	0,591	0,574	0,498	0,483		0,297

.30 BULLETS

BULLET NAME	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
			> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	
Scenar-L	10.0 g / 155 gr	GB552	0.473	0.459	0.436	0.442		0.230
Armour Piercing	10.7 g / 165 gr	AP492	0.447	0.425	0.382	0.313		0.213
Armour Piercing	10.8 g / 166 gr	AP555	0.454	0.428	0.383	0.318		0.218
Lock Base	11.0 g / 170 gr	B476	0.511	0.476	0.402	0.287		0.249
			> 740 m/s > 2430 fps	740-550 m/s 2430-1800 fps	550-380 m/s 1800-1250 fps	380-300 m/s 1250-980 fps	< 300 m/s < 980 fps	> 380 m/s > 1250 fps
Scenar	10.85 g / 167 gr	GB422	0.473	0.446	0.405	0.365		0.223
Naturalis (Solid)	11.0 g / 170 gr	N558	0.367	0.353	0.365	0.429		0.177
Scenar-L	11.3 g / 175 gr	GB550	0.488	0.482	0.469	0.507		0.247
Scenar	12.0 g / 185 gr	GB432	0.503	0.486	0.453	0.468		0.242
D46	12.0 g / 185 gr	D46	0.527	0.510	0.460	0.461		0.254
			> 300 m/s > 980 fps	< 300 m/s > 980 fps				
Subsonic	13.0 g / 200 gr	B416				0.515	0.413	0.229
Scenar-L	14.3 g / 220 gr	GB551	0.647	*	*	*		0.324

.338 BULLETS

BULLET NAME	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
			> 830 m/s > 2720 fps	830-600 m/s 2720-1970 fps	600-380 m/s 1970-1250 fps	380-300 m/s 1250-980 fps	<300 m/s <980 fps	
Naturalis (Solid)	15.0 g / 231 gr	N508	0.376	0.363	0.276	0.397		0.193
Scenar	16.2 g / 250 gr	GB488	0.646	0.632	0.588	0.613		0.320
Lock Base	16.2 g / 250 gr	B408	0.621	0.589	0.527	0.545		0.310
Armour Piercing	16.1 g / 248 gr	AP485	0.564	0.562	0.539	0.559		0.289
Armour Piercing Incendiary	16.4 g / 253 gr	API526	0.554	0.531	0.482	0.480		0.269
Scenar	19.4 g / 300 gr	GB528	0.745	0.756	0.726	0.728		0.368
Armour Piercing	19.4 g / 300 gr	AP529	0.726	0.707	0.683	0.632		0.366
Armour Piercing Incendiary	19.4 g / 300 gr	API571	*	*	*	*		*

For ultimate accuracy and precision, Lapua uses radar based data for all tactical projectile ballistics.





Pursuit of **Perfection**

CARTRIDGES - CENTERFIRE RIFLE

● SPORT ● HUNTING ● TACTICAL AMMUNITION

METRIC

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s]								Trajectory [mm]							Test barrel length [mm]
			Energy [J]		Wind drift [mm] (Sidewind 4 m/s)						Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)						
			0 m	100 m	200 m	300 m	600 m	800 m	1000 m	100 m		200 m	300 m	600 m	800 m	1000 m		
.222 Rem. (5.7x43)	4315021 ● ●	FMJ 3,6 g / 55 gr S569	880 1394 0	760 1039 37	649 759 159	549 542 388				100 168 GEE	0 40	-132 -52	-498 -378				600	
	4315030 ●	SP 3,6 g / 55 gr E539	880 1394 0	713 916 52	574 592 228	461 382 563				100 300 163 GEE	0 205 40	-156 254 -76	-615 0 -494				600	
	N315025 ●	Naturalis 3,2 g / 50 gr N566	965 1490 0	802 1030 41	656 689 181	532 293 883				100 176 GEE	0 40	-115 -36	-461 -342				600	
.223 Rem.	4315042 ● ● ●	FMJ 3,6 g / 55 gr S569	955 1642 0	828 1234 33	712 913 141	606 661 343	362 236 1782			100 300 181 GEE	0 135 39	-104 165 -26	-404 0 -286	-3418 -2610 -3182			660	
	N315026 ●	Naturalis 3,2 g / 50 gr N566	1015 1648 0	850 1155 36	698 779 162	567 515 405			100 185 GEE	0 39	-98 -20	-401 -284						
	4315015 ● ●	Scenar-L 4,5 g / 69 gr GB544	830 1550 0	744 1244 26	663 989 112	588 777 266	392 345 1288			100 300 600	0 167 611	-138 196 1083	-501 0 1332	-3665 -2663 0			510	
.243 Win.	4316052 ● ●	FMJ 5,8 g / 90 gr S561	885 2271 0	796 1837 25	712 1472 104	634 1166 247	434 546 1187			100 300 176 GEE	0 142 39	-116 168 -33	-425 0 -290	-3122 -2272 -2672			610	
	N316201 ●	Naturalis 5,8 g / 90 gr N509	910 2414 0	776 1756 35	655 1250 154				100 167 GEE	0 37	-124 -51						610	
6 mm BR Norma	4316044 ●	Scenar-L 5,8 g / 90 gr GB543	900 2349 0	828 1988 18	759 1670 76	693 1392 180	511 758 838			100 300 600	0 125 434	-103 148 765	-375 0 926	-2602 -1852 0			670	
	4316047 ●	Scenar-L 6,8 g / 105 gr GB542	815 2258 0	752 1924 19	692 1627 80	634 1368 189	483 792 862	398 539 1670	332 374 2845	100 300 600	0 158 527	-134 182 919	-473 0 1107	-3160 -2213 0	-6970 -5708 -2757	-13287 -11709 -8019	670	
6.5x47 Lapua	4316017 ●	Scenar-L 7,8 g / 120 gr GB547	845 2785 0	782 2382 18	720 2020 76	660 1699 178	499 970 826	407 645 1622		100 300 600	0 144 485	-121 167 849	-432 0 1023	-2909 -2045 0	-6452 -5300 -2573		660	
	4316011 ●	Scenar 8,0 g / 123 gr GB489	850 2890 0	792 2510 16	736 2164 67	681 1856 158	532 1133 716	444 526 1394	362 526 2409	100 300 600	0 137 453	-116 159 791	-412 0 948	-2720 -1896 0	-5919 -4819 -2292	-11138 -9763 -6603	660	
	4316016 ●	Scenar-L 8,8 g / 136 gr GB546	800 2816 0	745 2444 17	692 2106 72	641 1806 168	502 1109 759	423 786 1463	355 554 2478	100 300 600	0 160 519	-137 183 902	-479 0 1079	-3116 -2157 0	-6744 -5466 -2589	-12593 -10995 -7399	660	
	4316012 ●	Scenar 9,0 g / 139 gr GB458	820 3026 0	769 2662 15	719 2328 63	671 2029 146	539 1308 653	459 950 1257	386 670 2143	100 300 600	0 146 470	-125 168 815	-439 0 971	-2822 -1943 0	-6031 -4859 -2268	-11115 -9650 -6411	660	
	N316301 ●	Naturalis 9,1 g / 140 gr N563	807 2963 0	668 2033 49	550 1375 107					100 153 GEE	0 39	-178 -99					660	
	6.5 Creedmoor	4316060 ● ●	Scenar 8,0 g / 123 gr GB489	850 2890 0	792 2510 16	736 2164 67	681 1856 158	532 1133 716	444 526 1394	362 526 2409	100 300 600	0 137 453	-116 159 791	-412 0 948	-2720 -1896 0	-5919 -4819 -2292	-11138 -9763 -6603	600
4316063 ●		Scenar-L 8,8 g / 136 gr GB546	835 3068 0	780 2674 19	725 2314 76	673 1990 179	529 1233 807	446 877 1564	375 618 2671	100 300 600	0 143 469	-122 165 816	-430 0 976	-2814 -1953 0	-6087 -4939 -2335	-11351 -9916 -6661	600	
N316401 ●		Naturalis 9,1 g / 140 gr N563	780 2768 0	644 1889 52	530 1279 112					100 148 GEE	0 39	-194 -117					600	
4316064 ●		Mega 10,1 g / 156 gr E471	780 3072 0	704 2505 26	633 2022 110	566 1616 261				100 156 GEE	0 39	-159 -80	-566 -446				600	
.260 Rem.	4316065 ●	Scenar-L 8,8 g / 136 gr GB546	814 2915 0	759 2534 26	705 2188 106	653 1878 246	513 1157 1104	432 821 2153	363 579 3716	100 300 600	0 153 498	-131 175 866	-459 0 1036	-2991 -2073 0	-6471 -5247 -2484	-12078 -10547 -7092	510	
6.5x55 SE	4316033 ● ●	FMJ 6,5 g / 100 gr S341	830 2239 0	713 1654 37	606 1195 161	510 845 394				100 300 159 GEE	0 219 40	-194 244 -75	-656 0 -462				600	
	4316035 ●	Scenar 6,5 g / 100 gr GB504	800 2080 0	730 1733 22	664 1433 94	601 1176 223	433 610 1047			100 300 600	0 170 584	-144 196 1024	-509 0 1242	-3504 -2485 0			740	
	4316031 ●	Scenar 7,0 g / 108 gr GB464	900 2835 0	833 2426 17	767 2059 71	703 1732 167	532 989 773	431 650 1529	341 407 2690	100 300 600	0 123 420	-101 145 740	-368 0 893	-2523 -1786 0	-5618 -4636 -2254	-10865 -9637 -6659	740	

CARTRIDGES - CENTERFIRE RIFLE

CARTRIDGES - CENTERFIRE RIFLE										● SPORT ● HUNTING ● TACTICAL AMMUNITION								
Caliber	Product no.	Bullet name Weight Code	Velocity [m/s]							Trajectory [mm]							Test barrel length [mm]	
			Energy [J]	Wind drift [mm] (Sidewind 4 m/s)							Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)						
				0 m	100 m	200 m	300 m	600 m	800 m	1000 m		100 m	200 m	300 m	600 m	800 m		1000 m
6.5x55 SE (cont.)	4316038	Scenar-L 7,8 g / 120 gr GB547	830 2687 0	767 2294 19	705 1941 78	647 1630 184	487 926 851	397 614 1672		100 300 600	0 151 506	-127 174 886	-452 0 1067	-3039 -2135 0	-6744 -5538 -2692	740		
	4316039	Scenar-L 7,8 g / 120 gr GB547	920 3301 0	855 2849 16	791 2441 65	729 2072 154	557 1211 711	458 819 1397	371 538 2422	100 300 600	0 115 393	-95 136 692	-346 0 833	-2359 -1667 0	-5217 -4293 -2071	-9974 -8820 -6041	740	
	4316032	Scenar 8,0 g / 123 gr GB489	830 2756 0	773 2387 17	717 2054 70	663 1759 164	516 1066 745	429 736 1452	350 489 2515	100 300 600	0 146 480	-124 168 836	-438 0 1002	-2880 -2004 0	-6271 -5103 -2431	-11822 -10361 -7020	740	
	4316036	Scenar 8,0 g / 123 gr GB489	920 3386 0	860 2961 14	802 2575 59	745 2223 137	588 1384 624	495 979 1212	409 670 2086	100 300 600	0 112 374	-92 132 657	-336 0 787	-2245 -1574 0	-4877 -3982 -1884	-9129 -8010 -5387	740	
	4316040	Scenar-L 8,8 g / 136 gr GB546	815 2923 0	760 2541 17	706 2194 69	654 1883 163	514 1161 737	433 824 1420	363 580 2408	100 300 600	0 153 497	-130 175 864	-458 0 1033	-2982 -2067 0	-6453 -5232 -2476	-12042 -10516 -7071	740	
	4316030	Scenar 9,0 g / 139 gr GB458	800 2880 0	749 2527 16	700 2207 65	653 1921 152	523 1231 680	445 890 1311	372 623 2238	100 300 600	0 156 498	-134 178 863	-467 0 1028	-2991 -2056 0	-6395 -5149 -2407	-11802 -10244 -6817	740	
	N316102	Naturalis 9,1 g / 140 gr N563	800 2912 0	664 2005 50	546 1357 108					100 152 GEE	0 40	-181 -102					600	
	4316021	Mega 10,1 g / 156 gr E471	780 3072 0	704 2505 26	633 2022 110	566 1616 261				100 156 GEE	0 39	-198 -80	-640 -446				740	
7x64	N317322	Naturalis 10,1 g / 156 gr N564	840 3563 0	733 2714 34	634 2032 144	544 1493 349				100 163 GEE	0 40	-144 -63	-534 -413			600		
7X65R	N317323	Naturalis 10,1 g / 156 gr N564	840 3563 0	733 2714 34	634 2032 144	544 1493 349				100 163 GEE	0 40	-144 -63	-534 -413			600		
.308 Win. (7.62x51)	4317527	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 173 GEE	0 153 40	-121 185 -41	-460 0 -339			660		
	4317498	Mega 9,7 g / 150 gr E469	850 3504 0	759 2794 27	675 2210 112	595 1717 269				100 300 168 GEE	0 159 40	-130 187 -50	-476 0 -359			660		
	4317076	Scenar-L 10,0 g / 155 gr GB552	860 3698 0	794 3151 18	730 2663 76	669 2235 180	503 1254 831	408 833 1640	331 548 2857	100 300 600	0 138 469	-115 161 822	-414 0 992	-2813 -1984 0	-6265 -5160 -2515	-12106 -10726 -7418	660	
	4317515	Scenar 10,85 g / 167 gr GB422	820 3648 0	754 3083 20	690 2579 85	628 2138 200	459 1144 946	364 717 1899		100 300 600	0 157 535	-132 181 938	-470 0 1135	-3212 -2271 0	-7258 -6003 -2975		660	
	4317596	Lock Base HPS 11,0 g / 170 gr B476	840 3881 0	779 3337 18	718 2839 77	659 2392 182	493 1338 855	390 836 1724	310 527 3103	100 300 600	0 145 487	-122 168 852	-435 0 1027	-2924 -2054 0	-6522 -5362 -2623	-12765 -11315 -7891	660	
	43M7600	Lock Base SEMI AUTO 11,0 g / 170 gr B476	744 3044 0	684 2575 23	626 2158 96	570 1788 228	411 931 1087	321 568 2228		100 300 600	0 196 658	-170 223 1147	-589 0 1386	-3951 -2772 0	-8683 -7391 -3694		400	
	N317105	Naturalis 11,0 g / 170 gr N558	800 3520 0	717 2829 27	639 2243 115	566 1762 276				100 159 GEE	0 40	-151 -72	-543 -424				660	
	4317520	Scenar-L 11,3 g / 175 gr GB550	793 3553 0	733 3039 19	675 2577 80	619 2166 190	468 1239 879	384 833 1720	323 588 2944	100 300 600	0 167 555	-143 191 968	-501 0 1165	-3332 -2329 0	-7362 -6025 -2919	-14087 -12415 -8532	660	
	4317523	Scenar 12,0 g / 185 gr GB432	755 3420 0	697 2911 21	640 2454 88	585 2052 207	438 1152 963	356 761 1898		100 300 600	0 188 622	-162 214 1083	-563 0 1304	-3735 -2609 0	-8288 -6787 -3308		660	
	4317189	Mega 12,0 g / 185 gr E415	765 3511 0	677 2750 32	595 2124 137	519 1616 329				100 151 GEE	0 39	-174 -97	-627 -514				660	
	4317590	FMJBT 12,0 g / 185 gr D46	760 3466 0	704 2974 20	650 2533 82	597 2141 193	452 1228 895	369 815 1772		100 300 600	0 182 598	-157 207 1039	-547 0 1247	-3588 -2495 0	-7908 -6450 -3123		660	
	4317340	FMJBT Subsonic 13,0 g / 200 gr B416	325 687 0	309 620 33	296 568 127	284 524 277				100 300 600	0 1033 1077	-988 -3097 0					410 ¹⁾	
.30-06 Spring.	4317577	FMJ 8,0 g / 123 gr S374	895 3204 0	782 2444 30	674 1815 132	571 1302 326				100 300 173 GEE	0 153 40	-121 185 -41	-460 0 -339			600		
	N317106	Naturalis 11,0 g / 170 gr N558	830 3789 0	746 3060 26	666 2437 109	591 1919 260				100 165 GEE	0 40	-137 -56	-495 -375			600		
	4317563	Mega 12,0 g / 185 gr E415	800 3837 0	710 3019 30	625 2344 128	547 1795 307				100 157 GEE	0 39	-155 -78	-561 -448			600		
	4317567	Mega 13,0 g / 200 gr E401	775 3892 0	693 3108 29	615 2453 123	543 1913 294				100 154 GEE	0 39	-165 -87	-589 -475			600		

CARTRIDGES - CENTERFIRE RIFLE

CARTRIDGES - CENTERFIRE RIFLE										● SPORT ● HUNTING ● TACTICAL AMMUNITION							
Caliber	Product no.	Bullet name Weight Code	Velocity [m/s]							Trajectory [mm]							Test barrel length [mm]
			Energy [J]							Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)						
			Wind drift [mm] (Sidewind 4 m/s)								100 m	200 m	300 m	600 m	800 m	1000 m	
.300 Win Mag.	N317204	Naturalis 11,0 g / 170 gr N558	902 4475 0	815 3654 26	732 2945 108	652 2339 258	452 1123 1249			100 300 178 GEE	0 134 40	-108 159 -29	-401 0 -282	-2940 -2139 -2702		600	
	4317312	Mega 12,0 g / 185 gr E415	830 4130 0	736 3251 33	649 2525 140	568 1934 336				100 163 GEE	0 40	-142 -62	-518 -398			600	
	4317308	Scenar 12,0 g / 185 gr GB432	900 4860 0	837 4207 29	776 3618 117	718 3089 269	551 1824 1229	0 1239 2447	370 821 4344	100 300 600	0 121 408	-100 142 716	-363 0 860	-2448 -1721 0	-5386 -4417 -2122	-10255 -9043 -6174	680
8x57 IRS	N318010	Naturalis 11,7 g / 180 gr N559	800 3744 0	718 3013 23	639 2388 101	566 1873 244				100 159 GEE	0 40	-151 -72	-544 -425			600	
8x57 IS	4318029	OT 7,8 g / 120 gr G573	940 3446 0	811 2565 46	693 1875 193	586 1339 472				100 300 178 GEE	0 142 39	-110 174 -32	-427 0 -309	-3661 -2807 -3424		600	
	N318009	Naturalis 11,7 g / 180 gr N559	820 3934 0	737 3177 26	657 2527 110	514 1985 264				163 GEE	0 40	-141 -61	-510 -390			600	
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	920 6348 0	835 5233 21	753 4251 88	674 3410 211	473 1678 1014			100 300 178 GEE	0 125 40	-100 149 -29	-374 0 -280	-2729 -1982 -2663		680	
	4318017	Scenar 16,2 g / 250 gr GB488	905 6634 0	856 5937 12	808 5294 48	762 4703 112	631 3225 495	551 2457 944	477 1840 1589	100 300 600	0 112 361	-93 131 628	-336 0 746	-2164 -1493 0	-4570 -3674 -1684	-8274 -7155 -4667	680
	4318033	Lock Base 16,2 g / 250 gr B408	900 6561 0	850 5846 12	800 5179 51	751 4563 119	611 3023 535	525 2230 1035	444 1600 1768	100 300 600	0 114 372	-95 134 648	-343 0 772	-2231 -1544 0	-4753 -3838 -1779	-8711 -7567 -4993	680
	4318013	Scenar 19,4 g / 300 gr GB528	830 6682 0	789 6038 12	750 5465 47	712 4917 109	605 3550 469	539 2818 880	478 2216 1457	100 300 600	0 136 421	-117 155 725	-407 0 855	-2524 -1710 0	-5231 -4146 -1865	-9289 -7932 -5082	680
9.3x62	4319012	OT 12,0 g / 185 gr G574	845 4284 0	739 3275 36	641 2462 155	550 1818 374				100 300 164 GEE	0 174 40	-141 208 -61	-523 0 -403	-4159 -3113 -3919		600	
	N319204	Naturalis 16,2 g / 250 gr N560	740 4436 0	674 3683 25	611 3027 104	552 2472 247				100 150 GEE	0 39	-176 -98	-615 -498			600	
	4319010	Mega 18,5 g / 285 gr E433	690 4404 0	612 3461 35	539 2688 149	473 2069 357				100 140 GEE	0 39	-223 -147	-783 -673			600	

TACTICAL CARTRIDGES

TACTICAL CARTRIDGES										¹) NOTE: Required twist is 1 turn in 250 mm or faster. Maximum barrel length 450 mm.							
Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)							Trajectory [mm]							Test barrel length [mm]
			0 m	100 m	200 m	300 m	600 m	800 m	1000 m	Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)						
											100 m	200 m	300 m	600 m	800 m	1000 m	
6.5 Creedmoor	43M6001	Armour Piercing 9,4 g / 145 gr AP570	845	794	744	695	558	473	392	100	0	-116	-409	-2637	-5642	-10424	600
			3356	2963	2602	2273	1464	1052	724	300	136	157	0	-1819	-4550	-9059	
			0	15	62	145	650	1259	2169	600	440	763	909	0	-2125	-6027	
.308 Win.	4317076	Scenar-L 10,0 g / 155 gr GB552	860	794	730	669	503	408	331	100	0	-115	-414	-2813	-6265	-12106	660
			3698	3151	2663	2235	1264	833	548	300	138	161	0	-1984	-5160	-10726	
			0	18	76	180	831	1640	2857	600	469	822	992	0	-2515	-7418	
	43M7075	Armor Piercing 10,8 g / 167 gr AP555	855	786	718	589	472	369		100	0	-119	-430	-2978	-6788		660
			3948	3334	2782	1873	1201	735		300	143	167	0	-2118	-5641		
			0	20	85	379	962	1946		600	496	873	1059	0	-2817		
	4317515	Scenar 10,85 g / 167 gr GB422	820	754	690	628	459	364		100	0	-132	-470	-3212	-7258		660
			3648	3083	2579	2138	1144	717		300	157	181	0	-2271	-6003		
			0	20	85	200	946	1899		600	535	938	1135	0	-2975		
	4317596	Lock Base HPS 11,0 g / 170 gr B476	840	779	718	659	493	390		100	0	-122	-435	-2924	-6522		660
			3881	3337	2839	2392	1338	836		300	145	168	0	-2054	-5362		
			0	18	77	182	855	1724		600	487	852	1027	0	-2623		
43M7600	Lock Base SEMI-AUTO 11,0 g / 170 gr B476	744	684	626	570	411	321		100	0	-170	-589	-3951	-8683		400	
		3044	2575	2158	1788	931	568		300	196	223	0	-2772	-7391			
		0	23	96	228	1087	2228		600	658	1147	1386	0	-3694			
4317520	Scenar-L 11,3 g / 175 gr GB550	793	733	675	619	468	384		100	0	-143	-501	-3332	-7362		660	
		3553	3039	2577	2166	1239	833		300	167	191	0	-2329	-6025			
		0	19	80	190	879	1720		600	555	968	1165	0	-2919			
4317523	Scenar 12,0 g / 185 gr GB432	755	697	640	585	438	356		100	0	-162	-563	-3735	-8288		660	
		3420	2911	2454	2052	1152	761		300	188	214	0	-2609	-6787			
		0	21	88	207	963	1898		600	622	1083	1304	0	-3308			
N317105	Naturalis 11,0 g / 170 gr N558	800	717	639	566				100	0	-151	-543				660	
		3520	2829	2243	1762				300	181	211	0					
		0	27	115	276												
4317590	D46 12,0 g / 185 gr D46	760	704	650	597	452	369		100	0	-157	-547	-3588	-7908		660	
		3466	2974	2533	2141	1228	815		300	182	207	0	-2495	-6450			
		0	20	82	193	895	1772		600	598	1039	1247	0	-3123			
4317340	Subsonic 13,0 g / 200 gr B416	325	309	296	284				100	0	-988	-3097				410¹)	
		687	620	568	524				300	1033	1077	0					
		0	33	127	277				600								
AP and API ammunition are available for military and law enforcement use only.																	

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TACTICAL CARTRIDGES

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)										Trajectory [mm]										Test barrel length [mm]	
													Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)										
			0 m	100 m	200 m	300 m	600 m	800 m	1000 m	1200 m	1500 m	100 m		200 m	300 m	600 m	800 m	1000 m	1200 m	1500 m				
.338 Lapua Mag.	N318020	Naturalis 15,0 g / 231 gr N508	920 6348 0	835 5233 21	753 4251 88	674 3410 211	473 1678 1014					100 300 600	0 125 40	-100 149 -29	-374 0 -280	-2729 -1982 -2663						680		
	4318017	Scenar 16,2 g / 250 gr GB488	905 6634 0	856 5937 12	808 5294 48	762 4703 112	631 3225 495	551 2457 944	477 1840 1589	409 1353 2489	328 874 4392	100 300 600	0 112 361	-93 131 628	-336 0 746	-2164 -1493 0	-4570 -3674 -1684	-8274 -7155 -4667	-13721 -12377 -9390	-26585 -24904 -21168	680			
	4318033	Lock Base 16,2 g / 250 gr B408	900 6561 0	850 5846 12	800 5179 51	751 4563 119	611 3023 535	525 2230 1035	444 1600 1768	372 1118 2819	310 778 5012	100 300 600	0 114 372	-95 134 648	-343 0 772	-2231 -1544 0	-4753 -3838 -1779	-8711 -7567 -4993	-14679 -13305 -10214	-29281 -27561 -23695	680			
	4318035	Armor Piercing 16,1 g / 248 gr AP485	905 6593 0	848 5794 14	794 5069 57	741 4417 133	595 2851 593	509 2084 1138	431 1496 1928	363 1063 3038	308 763 5275	100 300 600	0 115 380	-96 135 665	-346 0 794	-2282 -1589 0	-4901 -3977 -1859	-9046 -7891 -5243	-15324 -13937 -10758	-30594 -28858 -24881	680			
	4318048	Armor Piercing Incendiary 16,4 g / 253 gr API526	895 6568 0	838 5757 15	782 5014 62	727 4338 146	574 2699 662	481 1896 1292	396 1288 2232	331 900 3562	288 682 6129	100 300 600	0 120 398	-100 140 695	-361 0 832	-2386 -1665 0	-5172 -4210 -1990	-9679 -8476 -5701	-16714 -15271 -11940	-34161 -32354 -28187	680			
	4318013	Scenar 19,4 g / 300 gr GB528	830 6682 0	789 6038 12	750 5465 47	712 4917 109	605 3550 469	539 2818 880	478 2216 1457	422 1727 2245	349 1181 3852	100 300 600	0 136 421	-117 155 725	-407 0 855	-2524 -1710 0	-5231 -4146 -1865	-9289 -7932 -5082	-15073 -13444 -10021	-28084 -26046 -21766	680			
	43M8055	Armor Piercing 19,4 g / 300 gr AP529	830 6682 0	787 6008 13	746 5398 53	705 4821 123	591 3388 536	522 2643 1014	459 2044 1685	401 1560 2490	331 1063 4010	100 300 600	0 138 431	-118 157 743	-413 0 878	-2583 -1757 0	-5391 -4289 -1946	-9647 -8270 -5342	-15737 -14090 -10587	-29738 -27678 -23297	680			
	43M8052	Armor Piercing Incendiary 19,4 g / 300 gr API571	830 6682 0	792 6085 11	754 5516 47	716 4970 109	608 3582 483	541 2839 915	479 2224 1523	394 1503 2342	344 1146 4060	100 300 600	0 135 419	-116 154 721	-406 0 850	-2512 -1701 0	-5206 -4124 -1856	-9248 -7895 -5060	-15012 -13389 -9987	-28053 -26022 -21768	680			

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CARTRIDGES - CENTERFIRE HANDGUN

Caliber	Product No.	Bullet type Weight Code	Velocity [m/s] Energy [J] Wind drift [mm] (Sidewind 4 m/s)				Trajectory [mm]				Test barrel length [mm]
							Weapon sighted in at	Impact point above or below line of sight Sights 20 mm above bore line			
			0 m	10 m	50 m	100 m		10 m	50 m	100 m	
.32 S&W Long Wadcutter	4318023	Lead Wadcutter 5,35 g / 83 gr C427	240	228	189	149	25 m	2	-116	-914	150
			154	139	95	59	50 m	26	0	-681	
			0	4	110	472	75 m	56	154	-373	
	4318026	Lead Wadcutter 6,35 g / 98 gr C356	240	232	202	171	25 m	2	-107	-799	150
			183	170	130	93	50 m	23	0	-585	
			0	3	77	320	75 m	50	136	-313	

CARTRIDGES - RIMFIRE RIFLE AND PISTOL

Trajectory tables recalculated with Doppler based radar data

Cartridge type Bullet weight [grams]	Product no.	Velocity [m/s] (Note barrel length) Energy [J] Wind drift [mm] (Sidewind 4 m/s)					Trajectory [mm]				Test barrel length [mm]
		0 m	2,5 m	10 m	50 m	100 m	Weapon sighted in at [m]	Impact point above or below line of sight Sights 40 mm above bore line			
								10 m	50 m	100 m	
X-Act 2,59	420161	327	326	322	304	284	25	-17	-22	-267	660
		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Midas + 2,59	420162	327	326	322	304	284	25	-17	-22	-267	660
		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Center-X 2,59	420163	327	326	322	304	284	25	-17	-22	-267	660
		138	137	134	120	104	50	-13	0	-224	
		0	0	1	24	98	75	-2	51	-122	
Pistol King 2,59	420164	285	284	281	266	247	25	-15	-41	-389	150
		105	104	102	91	79	50	-6	0	-307	
		0	0	1	27	111	75	25	78	-169	
		270	269	266	251		25	-14	-50		120
		94	94	92	82		50	-4	0		
		0	0	1	29		75				
Pistol OSP 2,59	420165	280	279	276	261	243	25	-14	-44	-407	150
		102	101	99	88	76	50	-6	0	-320	
		0	0	1	28	114	75	9	74	-171	
		265	264	261	247		25	-13	-54		120
		91	90	88	79		50	-2	0		
		0	0	1	30		75				
Polar Biathlon 2,59	420166	337	335	331	312	291	25	-17	-18	-249	550
		147	146	142	126	109	50	-14	0	-212	
		0	0	1	25	100	75	-4	48	-116	

		0 m	50 m	100 m	150 m	200 m		100 m	150 m	200 m	
Long Range 2,59	420168	337 147 0	313 127 23	291 110 93	272 95 210	253 83 380	50 100 150 200	-211 0 263 561	-711 -395 0 447	-1545 -1123 -596 0	660
		337 147 0	313 127 23	291 110 93	272 95 210	253 83 380	50 100 150 200	-211 0 263 561	-711 -395 0 447	-1545 -1123 -596 0	660
		337 147 0	313 127 23	291 110 93	272 95 210	253 83 380	50 100 150 200	-211 0 263 561	-711 -395 0 447	-1545 -1123 -596 0	660

Ballistic coefficients are calculated by Quick Target Unlimited Lapua Edition from V_0 to V_{75}
BC G1 for all Rimfire .22 LR bullets = 0.172

CARTRIDGES - CENTERFIRE RIFLE

● SPORT ● HUNTING ● TACTICAL AMMUNITION

IMPERIAL

Caliber	Product no.	Bullet name Weight Code	Velocity [fps]								Trajectory [in]							Test barrel length [in]
			Energy [ft.-lbs.]								Rifle sighted in at [yd]	Impact point above or below line of sight (Scope 1.6 in above bore line)						
			Wind drift [in] (Sidewind 13 fps)															
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	100 yd		200 yd	300 yd	600 yd	800 yd	1000 yd		
.222 Rem. (5.7x43)	4315021 ● ●	FMJ 3,6 g / 55 gr S569	2887 1028 0	2525 786 1	2190 592 5	1882 437 13				100 184 PBR	0 2	-4 -1	-15 -10				24	
	4315030 ●	SP 3,6 g / 55 gr E539	2887 1028 0	2383 701 2	1954 471 7	1599 315 17				100 300 175 PBR	0 6 1,6	-5 8 -1	-18 0 -14				24	
	N315025 ●	Naturalis 3,2 g / 50 gr N566	3166 1099 0	2676 785 1,3	2230 545 5,8	1845 373 14,3				100 198 PBR	0 1,5	-3 0	-14 -9				24	
.223 Rem.	4315042 ● ● ●	FMJ 3,6 g / 55 gr S569	3133 1211 0	2751 933 1	2399 710 5	2074 531 11	1289 205 56			100 300 198 PBR	0 4 1	-3 5 0	-12 0 -8	-101 -77 -93			26	
	N315026 ●	Naturalis 3,2 g / 50 gr N566	3330 1216 0	2833 880 1	2369 615 5	1964 423 13				100 202 PBR	0 1	-3 0	-12 -8					
	4315015 ● ●	Scenar-L 4,5 g / 69 gr GB544	2723 1143 0	2463 935 1	2219 759 4	1990 611 9	1385 296 41			100 300 600	0 5 19	-4 6 33	-15 0 41	-112 -81 0			20	
.243 Win.	4316052 ● ●	FMJ 5,8 g / 90 gr S561	2905 1677 0	2637 1382 1	2384 1130 3	2146 915 8	1522 460 37			100 300 192 PBR	0 4 1,5	-3 5 0	-13 0 -8	-95 -69 -81			24	
	N316201 ●	Naturalis 5,8 g / 90 gr N509	2985 1780 0	2582 1332 1	2213 978 5					100 183 PBR	0 1,4	-4 -1					24	
6 mm BR Norma	4316044 ●	Scenar-L 5,8 g / 90 gr GB543	2950 1729 0	2733 1485 1	2525 1267 2	2325 1074 6	1772 624 27			100 300 600	0 4 13	-3 5 24	-12 0 29	-81 -58 0			26	
	4316047 ●	Scenar-L 6,8 g / 105 gr GB542	2674 1666 0	2485 1439 1	2303 1236 3	2128 1055 6	1661 643 27	1396 454 53	1169 319 89	100 300 600	0 5 16	-4 6 29	-15 0 34	-98 -69 0	-215 -175 -83	-403 -354 -239	26	
6.5x47 Lapua	4316017 ●	Scenar-L 7,8 g / 120 gr GB547	2772 2053 0	2582 1781 1	2395 1533 2	2215 1311 6	1720 790 26	1433 549 51		100 300 600	0 4 15	-4 5 26	-13 0 32	-90 -64 0	-198 -163 -78		26	
	4316011 ●	Scenar 8,0 g / 123 gr GB489	2790 2134 0	2616 1876 1	2446 1640 2	2281 1426 5	1826 914 23	1553 661 44	1301 464 75	100 300 600	0 4 14	-3 5 25	-13 0 30	-85 -59 0	-183 -149 -70	-339 -297 -198	26	
	4316016 ●	Scenar-L 8,8 g / 136 gr GB546	2625 2077 0	2461 1825 1	2300 1595 2	2145 1387 5	1720 892 24	1472 653 46	1284 497 76	100 300 600	0 5 16	-4 6 28	-15 0 34	-97 -68 0	-209 -169 -79	-385 -336 -223	26	
	4316012 ●	Scenar 9,0 g / 139 gr GB458	2690 2231 0	2537 1985 0	2387 1757 2	2242 1550 5	1839 1043 21	1594 784 40	1366 576 67	100 300 600	0 5 15	-4 5 26	-14 0 31	-88 -61 0	-188 -151 -70	-342 -297 -195	26	
	N316301 ●	Naturalis 9,1 g / 140 gr N563	2648 2186 0	2230 1550 2	1848 1064 4					100 165 PBR	0 1,6	-5,5 -2,4					26	
6.5 Creedmoor	4316060 ● ●	Scenar 8,0 g / 123 gr GB489	2790 2134 0	2616 1876 1	2446 1640 2	2281 1426 5	1826 914 23	1553 661 44	1301 464 75	100 300 600	0 4 14	-3 5 25	-13 0 30	-85 -59 0	-183 -149 -70	-339 -297 -198	24	
	4316063 ●	Scenar-L 8,8 g / 136 gr GB546	2740 2263 0	2573 1996 1	2409 1750 3	2250 1527 6	1812 990 26	1554 728 50	1326 530 85	100 300 600	0 4 15	-4 5 26	-13 0 31	-88 -61 0	-189 -153 -71	-348 -303 -201	24	
	N316401 ●	Naturalis 9,1 g / 140 gr N563	2559 2042 0	2150 1441 2	798 1008 4					100 160 PBR	0 1,6	-6 -3					24	
	4316064 ●	Mega 10,1 g / 156 gr E471	2560 2254 0	2332 1871 1	2116 1540 4	1912 1257 8				100 171 PBR	0 1,6	-5 -2	-17 -13				24	
.260 Rem.	4316065 ●	Scenar-L 8,8 g / 136 gr GB546	2671 2150 0	2505 1892 1	2343 1655 3	2186 1441 8	1756 930 36	1504 682 69	1283 496 117	100 300 600	0 4,8 16	-4,0 5,6 27	-14 0 33	-94 -65 0	-201 -163 -76	-370 -322 -214	24	
6.5x55 SE	4316033 ● ●	FMJ 6,5 g / 100 gr S341	2725 1649 0	2374 1251 1	2049 932 5	1752 682 13				100 300 174 PBR	0 6 1,6	-5 7 -2	-17 0 -13				29	
	4316035 ●	Scenar 6,5 g / 100 gr GB504	2620 1529 0	2411 1294 1	2211 1088 3	2021 909 7	1506 505 33			100 300 600	0 5 18	-4 6 32	-16 0 39	-109 -77 0			29	
	4316031 ●	Scenar 7,0 g / 108 gr GB464	2950 2087 0	2748 1811 1	2550 1560 2	2358 1333 5	1832 805 25	1521 555 48	1238 367 83	100 300 600	0 4 13	-3 5 23	-11 0 28	-78 -56 0	-173 -142 -68	-328 -290 -197	29	
6.5x55 SE (cont.)	4316038 ●	Scenar-L 7,8 g / 120 gr GB547	2723 1981 0	2534 1715 1	2348 1474 3	2170 1258 6	1681 755 27	1399 523 53		100 300 600	0 5 16	-4 5 28	-14 0 33	-94 -66 0	-207 -170 -81		29	
	4316039 ●	Scenar-L 7,8 g / 120 gr GB547	3018 2434 0	2822 2128 1	2631 1849 2	2443 1595 5	1919 984 23	1609 692 44	1335 476 76	100 300 600	0 4 12	-3 4 22	-11 0 26	-73 -52 0	-160 -132 -63	-302 -267 -180	29	
	4316032 ●	Scenar 8,0 g / 123 gr GB489	2720 2028 0	2548 1779 1	2379 1551 2	2217 1347 5	1769 858 24	1501 617 46	1253 430 79	100 300 600	0 5 15	-4 5 26	-14 0 31	-90 -63 0	-194 -158 -74	-361 -316 -211	29	

CARTRIDGES - CENTERFIRE RIFLE

● SPORT ● HUNTING ● TACTICAL AMMUNITION

Caliber	Product no.	Bullet name Weight Code	Velocity [fps] Energy [ft.-lbs.] Wind drift [in] (Sidewind 13 fps)								Trajectory [in]								Test barrel length [in]	
											Rifle sighted in at [yd]	Impact point above or below line of sight (Scope 1.6 in above bore line)								
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	100 yd		200 yd	300 yd	600 yd	800 yd	1000 yd				
	4316036 •	Scenar 8,0 g / 123 gr GB489	3015 2492 0	2836 2204 0	2661 1941 2	2490 1699 4	2010 1108 20	1722 813 38	1457 582 65	100 300 600	0 3 12	-3 4 21	-10 0 25	-70 -49 0	-151 -124 -58	-280 -245 -163	29			
	4316040 •	Scenar-L 8,8 g /136 gr GB546	2674 2156 0	2509 1897 1	2347 1660 2	2190 1445 5	1759 933 24	1506 684 45	1285 498 76	100 300 600	0 5 16	-4 6 27	-14 0 32	-93 -65 0	-200 -162 -76	-369 -321 -213	29			
	4316030 •	Scenar 9,0 g / 139 gr GB458	2625 2125 0	2473 1886 1	2325 1667 2	2183 1469 5	1786 983 23	1545 736 44	1332 547 71	100 300 600	0 5 16	-4 5 27	-15 0 33	-94 -62 0	-200 -152 -74	-365 -298 -208	24			
	N316102 •	Naturalis 9,1 g / 140 gr N563	2625 2148 0	2209 1522 2	1847 1064 4					100 164 PBR	0 1,6	-6 -3					29			
	4316021 •	Mega 10,1 g / 156 gr E471	2560 2254 0	2332 1871 1	2116 1540 4	1912 1257 8					100 171 PBR	0 1,6	-5 -2	-17 -13				24		
7x64	N317322 •	Naturalis 10,1 g / 156 gr N564	2756 2628 0	2434 2050 0	2135 1577 0	1858 1194 11				100 173 PBR	0 1,6	-4 -1	-16 -12				24			
7X65R	N317323 •	Naturalis 10,1 g / 156 gr N564	2756 2628 0	2434 2050 0	2135 1577 0	1858 1194 11				100 173 PBR	0 1,6	-4 -1	-16 -12				24			
.308 Win.	4317527 • •	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268 1410 4	1955 1048 10				100 300 189 PBR	0 5 1,5	-4 6 -1	-14 0 -9				26			
	4317498 •	Mega 9,7 g / 150 gr E469	2790 2592 0	2517 2110 1	2261 1702 4	2019 1357 9				100 300 184 PBR	0 5 1,6	-4 6 -1	-15 0 -10				26			
	4317076 • •	Scenar-L 10,0 g / 155 gr GB552	2820 2725 0	2621 2354 1	2428 2020 2	2243 1723 6	1735 1031 26	1439 710 52	1182 478 89	100 300 600	0 4 15	-3 5 26	-13 0 31	-87 -62 0	-192 -158 -76	-365 -323 -220	26			
	4317515 • •	Scenar 10,85 g / 167 gr GB422	2690 2690 0	2491 2307 1	2297 1962 3	2110 1656 6	1595 945 30	1295 623 59		100 300 600	0 5 17	-4 6 29	-15 0 35	-99 -70 0	-221 -183 -89		26			
	4317596 • • •	Lock Base HPS 11,0 g / 170 gr B476	2756 2867 0	2573 2498 1	2391 2157 2	2213 1848 6	1708 1101 27	1393 733 54	1103 459 95	100 300 600	0 4 15	-4 5 27	-13 0 32	-91 -64 0	-200 -164 -79	-382 -337 -231	16			
	43M7600 SEMI AUTO • •	Lock Base 11,0 g / 170 gr B476	2441 2245 0	2262 1928 1	2087 1642 3	1918 1386 7	1436 777 34	1139 489 69		100 300 600	0 6 20	-5 7 36	-18 0 43	-123 -86 0	-274 -225 -110		26			
	N317105 •	Naturalis 11,0 g / 170 gr N558	2625 2596	2376 2128	2138 1723	1916 1383	1368 706	1124 476	1007 382	100 174 PBR	0 2	-5 -1	-17 -12	-120 -111	-277 -265	-543 -528	26			
	4317520 • •	Scenar-L 11,3 g / 175 gr GB550	2602 2621 0	2423 2273 1	2248 1957 3	2078 1672 6	1615 1010 28	1350 705 54	1125 490 93	100 300 600	0 5 17	-4 6 30	-16 0 36	-104 -73 0	-226 -185 -88	-426 -375 -254	26			
	4317523 • •	Scenar 12,0 g / 185 gr GB432	2475 2518 0	2299 2174 1	2128 1861 3	1962 1583 7	1512 940 32	1254 647 62		100 300 600	0 6 20	-5 7 34	-18 0 41	-116 -82 0	-256 -209 -100		26			
	4317189 •	Mega 12,0 g / 185 gr E415	2690 2901 0	2441 2388 1	2200 1940 4	1972 1559 9				100 165 PBR	0 1,6	-5 -2	-19 -15				26			
	4317590 • • •	FMJBT 12,0 g / 185 gr D46	2490 2549 0	2322 2216 1	2159 1916 3	2000 1645 6	1558 998 28	1296 690 56		100 300 600	0 6 19	-5 7 33	-17 0 39	-112 -78 0	-244 -199 -95		16			
	4317340 •	FMJBT Subsonic 13,0 g / 200 gr B416	1066 506 0	1017 461 1	977 425 4	941 394 9				100 300 600	0 33	-32 35	-100 0				24			
.30-06 Spring.	4317577 • •	FMJ 8,0 g / 123 gr S374	2935 2361 0	2594 1845 1	2268 1410 4	1955 1048 10				100 300 189 PBR	0 5 1,5	-4 6 -1	-14 0 -9				24			
	N317106 •	Naturalis 11,0 g / 170 gr N558	2723 2795 0	2470 2300 1	2228 1871 4	1999 1506 8				100 180 PBR	0 1,5	-4 -1	-15 -11				24			
	4317563 •	Mega 12,0 g / 185 gr E415	2625 2831 0	2353 2275 1	2098 1808 4	1859 1420 10				100 172 PBR	0 1,6	-5 -1	-17 -13				24			
	4317567 •	Mega 13,0 g / 200 gr E401	2545 2876 0	2297 2342 1	2063 1889 4	1843 1508 9				100 168 PBR	0 1,6	-5 -2	-18 -14				24			

CARTRIDGES - CENTERFIRE RIFLE

Caliber	Product no.	Bullet name Weight Code	Velocity [fps] Energy [ft.-lbs.] Wind drift [in] (Sidewind 13 fps)							Trajectory [in]							Test barrel length [in]
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	Rifle sighted in at [yd]	Impact point above or below line of sight (Scope 1.6 in above bore line)						
											100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	
.300 Win Mag.	N317204 ●	Naturalis 11,0 g / 170 gr N558	2959 3300 0	2698 2744 1	2447 2256 4	2205 1833 8	1579 940 40			100 300 195 PBR	0 4,1 1,5	-3,2 5,0 -0,2	-12 0 -7,8	-90 -65 -81			24
	4317312 ●	Mega 12,0 g / 185 gr E415	2723 3046 0	2441 2744 1	2177 2256 5	1929 1833 11				100 178 PBR	0 1,6	-4,3 -1,2	-16 -11				24
	4317308 ● ●	Scenar 12,0 g / 185 gr GB432	2953 3585 0	2765 3142 1	2581 2739 4	2403 2375 9	1897 1479 39	1595 1047 77	1327 724 135	100 300 600	0 3,7 13	-3,0 4,5 22	-11 0 27	-76 -54 0	-166 -136 -274	-311 -184	27
8x57 IRS	N318010 ●	Naturalis 11,7 g / 180 gr N559	2625 2762 0	2378 2266 1	2140 1835 4	1916 1471 17				100 300 190 PBR	0 4,6 1,5	-3,5 5,7 -0,5	-14 0 -9,3				24
8x57 IS	4318029 ● ●	OT 7,8 g / 120 gr G573	3084 2542 0	2695 1941 1	2339 1461 6	2010 1079 15				100 300 194 PBR	0 4,3 1,5	-3,2 5,4 -0,3	-13 0 -8,4				24
	N318009 ●	Naturalis 11,7 g / 180 gr N559	2690 2901 0	2440 2387 1	2200 1939 4	1972 1559 16				163 GEE	0 40	-141 -61	-510 -390				24
.338 Lapua Mag. (8.6x70)	N318020 ● ●	Naturalis 15,0 g / 231 gr N508	3018 4681 0	2764 3925 1	2515 3251 3	2276 2663 7	1651 1401 32			100 300 200 PBR	0 4 1	-3 5 0	-11 0 -7	-83 -61 -75			27
	4318017 ● ●	Scenar 16,2 g / 250 gr GB488	2970 4896 0	2823 4424 0	2680 3985 2	2539 3579 4	2141 2545 16	1896 1994 30	1666 1540 50	100 300 600	0 3 11	-3 4 20	-10 0 24	-68 -47 0	-143 -116 -52	-258 -223 -143	27
	4318033 ● ●	Lock Base 16,2 g / 250 gr B408	2953 4896 0	2802 4356 0	2652 3902 2	2504 3479 4	2080 2401 17	1816 1831 33	1568 1365 55	100 300 600	0 4 12	-3 4 20	-11 0 24	-70 -49 0	-148 -120 -55	-268 -233 -152	27
	4318013 ● ●	Scenar 19,4 g / 300 gr GB528	2690 4821 0	2569 1395 0	2451 4001 2	2337 3638 4	2015 2704 15	1816 2196 28	1629 1767 46	100 300 600	0 4 14	-4 5 24	-13 0 28	-82 -56 0	-170 -135 -60	-300 -257 -163	27
9.3x62	4319012 ● ●	OT 12,0 g / 185 gr G574	2772 3160 0	2453 2473 1	2155 1909 5	1879 1452 12				100 300 179 PBR	0 5,3 1,6	-4,2 6,4 -1,1	-16 0 -11				24
	N319204 ●	Naturalis 16,2 g / 250 gr N560	2428 3272 0	2230 2761 1	2040 2310 3	1861 1922 8				100 164 PBR	0 1,6	-5 -2	-19 -14				24
	4319010 ●	Mega 18,5 g / 285 gr E433	2265 3246 0	2029 2606 1	1809 2071 5	1606 1632 11				100 153 PBR	0 1,6	-7 -4	-24 -20				24

TACTICAL CARTRIDGES

Caliber	Product no.	Bullet name Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 13 fps)							Trajectory [Inch]							Test barrel length [inch]
										Impact point above or below line of sight (Scope 1.6 in above bore line)							
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	Rifle sighted in at [yd]	100 yd	200 yd	300 yd	600 yd	800 yd.	1000 yd	
6.5 Creedmoor	43M6001	Armour Piercing 9,4 g / 145 gr AP570	2772	2619	2469	2322	1906	1646	1399	100	0	-3	-13	-83	-176	-320	20
			2475	2209	1963	1736	1169	873	630	300	4	5	0	-57	-142	-278	
.308 Win. (7.62x51)	4317076	Scenar-L 10,0 g / 155 gr GB552	2820	2621	2428	2243	1735	1439	1182	100	0	-3	-13	-87	-192	-365	26
			2725	2354	2020	1723	1031	710	478	300	4	5	0	-62	-158	-323	
			0	1	2	6	26	52	89	600	15	26	31	0	-76	-220	
	43M7075	Armor Piercing 10,8 g / 167 gr AP555	2805	2597	2392	2002	1642	1320	1052	100	0	-4	-13	-92	-206	-402	26
			2912	2496	2118	1483	997	644	409	300	4	5	0	-65	-171	-358	
			0	1	3	7	31	61	108	600	15	27	33	0	-84	-249	
	4317515	Scenar 10,85 g / 167 gr GB422	2690	2491	2297	2110	1595	1295		100	0	-4	-15	-99	-221		26
			2690	2307	1962	1656	945	623		300	5	6	0	-70	-183		
			0	1	3	6	30	59		600	17	29	35	0	-89		
	4317596 HPS	Lock Base 11,0 g / 170 gr B476	2756	2573	2391	2213	1708	1393		100	0	-4	-13	-91	-200		26
			2867	2498	2157	1848	1101	733		300	4	5	0	-64	-164		
			0	1	2	6	27	54		600	15	27	32	0	-79		
43M7600 SEMI-AUTO	Lock Base 11,0 g / 170 gr B476	2441	2262	2087	1918	1436	1139		100	0	-5	-18	-123	-274		16	
		2245	1928	1642	1386	777	489		300	6	7	0	-86	-225			
		0	1	3	7	34	69		600	20	36	43	0	-110			
4317520	Scenar-L 11,3 g / 175 gr GB550	2602	2423	2248	2078	1615	1350		100	0	-4	-16	-104	-226		26	
		2621	2273	1957	1672	1010	705		300	5	6	0	-73	-185			
		0	1	3	6	28	54		600	17	30	36	0	-88			
4317523	Scenar 12,0 g / 185 gr GB432	2475	2299	2128	1962	1512	1254		100	0	-5	-18	-116	-255		26	
		2518	2174	1861	1583	940	647		300	6	7	0	-81	-208			
		0	1	3	7	31	60		600	19	34	41	0	-100			
N317105	Naturalis 11,0 g / 170 gr N558	2625	2376	2138	1916				100	0	-5	-17				26	
		2596	2128	1723	1383				300	-6	1	0					
		0	1	4	9												
4317590	D46 12,0 g / 185 gr D46	2490	2322	2159	2000	1558	1296		100	0	-5	-17	-112	-244		26	
		2549	2216	1916	1645	998	690		300	6	7	0	-78	-199			
		0	1	3	6	28	56		600	19	33	39	0	-95			
4317340	Subsonic 13,0 g / 200 gr B416	1066	1017	977	941				100	0	-32	-100				16 ¹⁾	
		506	461	425	394				300	33	35	0					
		0	1	4	9				600								

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TACTICAL CARTRIDGES

Caliber	Product no.	Bullet name Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 9 mph)										Trajectory [inch]										Test barrel length [inch]
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd	Rifle sighted in at [yd]	Impact point above or below line of sight (Scope 1.6 in. above bore line)										
													100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd			
.338 Lapua Mag.	N318020	Naturalis	3018	2764	2515	2276	1651						100	0	-3	-11	-83					27	
		15,0 g / 231 gr	4681	3925	3251	2663	1401						300	4	5	0	-61						
		N508	0	1	3	7	32						600	1	0	-7	-75						
	4318017	Scenar	2970	2823	2680	2539	2141	1896	1666	1453	1171		100	0	-3	-10	-68	-143	-258	-420	-797	27	
		16,2 g / 250 gr	4896	4424	3985	3579	2545	1994	1540	1172	761		300	3	4	0	-47	-116	-223	-379	-746		
		GB488	0	0	2	4	16	30	50	78	136		600	11	20	24	0	-52	-143	-285	-628		
	4318033	Lock Base	2953	2802	2652	2504	2080	1816	1568	1338	1068		100	0	-3	-11	-70	-148	-268	-446	-868	27	
		16,2 g / 250 gr	4896	4356	3902	3479	2401	1831	1365	994	633		300	4	4	0	-49	-120	-233	-404	-815		
B408		0	0	2	4	17	33	55	87	156		600	12	20	24	0	-55	-152	-306	-693			
4318035	Armor Piercing	2970	2800	2635	2475	2030	1764	1520	1302	1061		100	0	-3	-11	-73	-153	-279	-464	-907	27		
	16,1 g / 248 gr	4866	4324	3829	3379	2274	1716	1275	935	621		300	4	4	0	-50	-124	-244	-422	-854			
	AP485	0	0	2	4	19	36	61	95	166		600	12	21	25	0	-57	-159	-322	-729			
4318048	Armor Piercing Incendiary	2936	2765	2597	2432	1964	1679	1415	1304	1064		100	0	-3	-11	-74	-160	-296	-502	-1006	27		
	16,4 g / 253 gr	4845	4295	3788	3323	2168	1584	1125	955	636		300	4	4	0	-52	-131	-259	-457	-951			
	API526	0	0	2	5	21	41	70	94	164		600	12	22	26	0	-61	-172	-353	-820			
4318013	Scenar	2723	2600	2482	2367	2042	1842	1653	1477	1242		100	0	-4	-13	-80	-165	-291	-468	-858	27		
	19,4 g / 300 gr	4934	4499	4100	3728	2775	2258	1818	1452	1027		300	4	5	0	-54	-131	-249	-417	-795			
	GB528	0	0	2	4	15	28	46	71	121		600	13	23	27	0	-58	-158	-309	-659			
43M8055	Armor Piercing	2723	2595	2470	2347	2000	1788	1591	1411	1171		100	0	-4	-13	-81	-169	-301	-486	-903	27		
	19,4 g / 300 gr	4934	4481	4060	3666	2662	2128	1685	1325	913		300	4	5	0	-56	-135	-258	-435	-839			
	AP529	0	0	2	4	17	32	54	78	133		600	14	24	28	0	-61	-165	-324	-700			
43M8052	Armor Piercing Incendiary	2723	2609	2496	2380	2052	1848	1657	1477	1230		100	0	-4	-13	-79	-164	-289	-466	-856	27		
	19,4 g / 300 gr	4929	4525	4140	3766	2799	2271	1824	1450	1005		300	4	5	0	-54	-130	-247	-415	-793			
	API571	0	0	2	4	16	29	49	75	128		600	13	23	27	0	-58	-157	-307	-658			
AP and API ammunition are available for military and law enforcement use only.																							

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CARTRIDGES - CENTERFIRE HANDGUN

Caliber	Product No.	Bullet type Weight Code	Velocity [fps] Energy [ft.-lbs.] Wind drift [in.] (Sidewind speed 13 fps)				Trajectory [inch]				Test barrel length [inch]
							Weapon sighted in at	Impact point above or below line of sight Sights 0.8 inch above bore line			
			0 yd.	10 yds.	50 yds.	100 yds.		25 yds.	50 yds.	100 yds.	
.32 S&W Long Wadcutter	4318023	Lead Wadcutter 5,35 g / 83 gr C427	787	748	630	508	25 yds.	0	-3.7	-29.0	6
			114	103	73	47	50 yds.	1.9	0	-21.7	
			0	0.2	3.7	15.5	75 yds.	4.3	4.9	-11.8	
	4318026	Lead Wadcutter 6,35 g / 98 gr C356	787	760	672	577	25 yds.	0	-3.4	-25.6	6
			135	125	98	72	50 yds.	1.7	0	-18.8	
			0	0.1	2.6	10.6	75 yds.	3.9	4.4	-10.1	

CARTRIDGES - RIMFIRE RIFLE AND PISTOL

Trajectory tables recalculated with Doppler based radar data

Cartridge type Bullet weight [grains]	Product no.	Velocity [fps] (Note barrel length) Energy [ft.-lbs.] Wind drift [in] (wind 13 fps)					Trajectory [in]				Test barrel length [in]
							Weapon sighted in at [yd]	Impact point above or below line of sight Sights 1.6 in above bore line			
		0 yd	2.5 yd	10 yd	50 yd	100 yd		10 yd	50 yd	100 yd	
X-Act 40	420161	1073	1069	1059	1006	944	25	-0,7	-0,4	-7,8	26
		102	101	99	90	79	50	-0,6	0	-7,0	
		0	0	0	0,8	3,1	75	-0,3	1,6	-3,9	
Midas + 40	420162	1073	1069	1059	1006	944	25	-0,7	-0,4	-7,8	26
		102	101	99	90	79	50	-0,6	0	-7,0	
		0	0	0	0,8	3,1	75	-0,3	1,6	-3,9	
Center-X 40	420163	1073	1069	1059	1006	944	25	-0,7	-0,4	-7,8	26
		102	101	99	90	79	50	-0,6	0	-7,0	
		0	0	0	0,8	3,1	75	-0,3	1,6	-3,9	
Pistol King 40	420164	935	931	923	878	824	25	-0,7	-1,1	-11,8	5,9
		78	77	76	68	60	50	-0,4	0	-9,7	
		0	0	0	0,9	3,5	75	0,0	2,2	-5,3	
		886	883	875	831		25	-0,6	-1,4		4,7
		70	69	68	61		50	-0,3	0		
		0	0	0	0,9		75				
Pistol OSP 40	420165	919	916	907	863	809	25	-0,6	-1,1	-12,4	5,9
		75	74	73	66	58	50	-0,4	0	-10,1	
		0	0	0	0,9	3,6	75	0,1	2,3	-5,5	
		869	866	858	815		25	-0,6	-1,5		4,7
		67	67	65	59		50	-0,3	0		
		0	0	0	0,9		75				
Polar Biathlon 40	420166	1106	1101	1089	1031	966	25	-0,7	-0,3	-7,2	21,7
		109	108	105	94	83	50	-0,7	0	-6,6	
		0	0	0	0,8	3,3	75	-0,4	1,5	-3,7	

		0 yd	50 yd	100 yd	150 yd	200 yd		100 yd	150 yd	200 yd	
Long Range 40	420168	1106 108 0	1032 95 0,8	968 83 3,0	907 73 6,9	850 64 12,4	50 100 150 200	-6,6 0 8,4 17,9	-22,4 -12,6 0 14,2	-48,8 -35,7 -19,0 0	26
		1106 108 0	1032 95 0,8	968 83 3,0	907 73 6,9	850 64 12,4	50 100 150 200	-6,6 0 8,4 17,9	-22,4 -12,6 0 14,2	-48,8 -35,7 -19,0 0	26
		1106 108 0	1032 95 0,8	968 83 3,0	907 73 6,9	850 64 12,4	50 100 150 200	-6,6 0 8,4 17,9	-22,4 -12,6 0 14,2	-48,8 -35,7 -19,0 0	26

COMPONENTS - CENTERFIRE RIFLE

CALIBER	BRASS CASES		BULLETS				Bullet diameter		Weight		Ballistic coefficient	Ballistic coefficient
	Product No.	Designation	Product No.	Bullet name	Product code	Type						
5.69 mm (.224)	4PH5002	.222 Rem.	4 PL 5006	Soft Point	E539	SP	5.69	.224	3.60	55	0.185	
	4PH5003	.223 Rem.	4 PL/HL 5017	FMJ	S569	FMJ	5.69	.224	3.60	55	0.255	
	4PH5013	.220 Russian	4 PL/HL 5015	Scenar-L	GB544	OTM	5.69	.224	4.50	69	0.341	0.171
	4PH5001	.22-250 Rem.	4 PL/HL 5016	Scenar-L	GB545	OTM	5.69	.224	5.00	77	0.386	0.193
			N PL 5001	Naturalis	N566	CEX	5.69	.224	3.20	50	*	
6 mm (.243)	4PH6009	.243 Win.	N PL 6201	Naturalis	N509	CEX	6.16	.243	5.80	90	0.230	
	4PH6022	6 mm Creedmoor	4 PL/HL 6055	Scenar-L	GB543	OTM	6.18	.243	5.80	90	0.434	0.216
	4PH6046	6 mm BR Norma	4 PL/HL 6050	Scenar-L	GB542	OTM	6.18	.243	6.80	105	0.472	0.236
6.5 mm (.264) (Small Rifle Primer) (Large Rifle Primer)	4PH6012	6.5 x 55 SE	4 PL/HL 6014	FMJ	S341	FMJ	6.71	.264	6.50	100	0.250	
	4PH6030	6.5 - 284 Norma	4 PL/HL 6015	FMJ Cutting Edge	S496	FMJCE	6.71	.264	6.50	100	0.250	
	4PH6010	6.5 x 47 Lapua	4 PL/HL 6033	Scenar	GB504	OTM	6.71	.264	6.50	100	0.424	0.212
	4PH6020	6.5 Grendel	4 PL/HL 6020	Scenar	GB464	OTM	6.71	.264	7.00	108	0.465	0.231
	4PH6050	.260 Rem.	4 PL/HL 6032	Scenar	GB489	OTM	6.71	.264	8.00	123	0.527	0.263
	4PH6011	6.5 Creedmoor	4 PL/HL 6021	Scenar-L	GB547	OTM	6.71	.264	7.80	120	0.497	0.246
	4PH6013	6.5 Creedmoor	4 PL/HL 6019	Scenar-L	GB546	OTM	6.71	.264	8.80	136	0.545	0.274
	4PH6023	6.5 PRC	4 PL/HL 6018	Scenar	GB458	OTM	6.71	.264	9.00	139	0.578	0.290
			4 PL/HL 6000	FMJ	B343	FMJBT	6.71	.264	9.30	144	0.636	
			N PL 6203	Naturalis	N563	CEX	6.71	.264	9.10	140	0.201	
			4 PL 6022	MaxRange Target	GB582	OTM	6.71	.264	9.30	144	0.670	0.335
			4 PL 6010	Mega	E471	SP	6.71	.264	10.10	155	0.377	
7 mm (.284)	4PH7095	7 mm-08 Rem.	4 PL/HL 7400	Scenar-L	GB553	OTM	7.21	.284	9.70	150	0.526	0.260
	4PH7105	7 x 64	4 PL/HL 7401	Scenar-L	GB554	OTM	7.21	.284	11.70	180	0.661	0.332
	4PH7107	7 x 65R	N PL 7027	Naturalis	N564	CEX	7.21	.284	10.10	156	0.280	
	4PH7284	.284 Win.	4 PL/HL 7224	OT Cutting Edge	G477	OTCE	7.83	.308	6.50	100	0.170	
			4 PL/HL 7225	Open Tip	G580	OT	7.83	.308	6.50	100	0.200	
7.62 mm (.308)	4PH7217	.308 Win.	4 PL/HL 7003	FMJ	S374	FMJ	7.83	.308	8.00	123	0.270	
	4PH7215	7.62 x 53R	4 PL/HL 7063	Scenar-L	GB552	OTM	7.83	.308	10.00	155	0.460	0.230
	4PH7226	.308 Win. Palma	4 PL/HL 7069	Scenar	GB422	OTM	7.83	.308	10.85	167	0.446	0.223
	4PH7090	.300 Norma Mag.	4 PL/HL 7061	Scenar-L	GB550	OTM	7.83	.308	11.30	175	0.490	0.247
	4PH7096	.300 Win Mag.	4 PL/HL 7071	Scenar	GB432	OTM	7.83	.308	12.00	185	0.482	0.242
	4PH7098	.300 PRC	4 PL/HL 7062	Scenar-L	GB551	OTM	7.83	.308	14.30	220	0.647	0.324
	4PH7080	.300 WSM	4 PL/HL 7086	Lock Base	B476	FMJBT	7.83	.308	11.00	170	0.498	0.249
	4PH7068	.30-06 Springfield	4 PL/HL 7019	D46	D46	FMJBT	7.83	.308	12.00	185	0.506	0.254
			4 PL 7060	Subsonic	B416	FMJBT	7.83	.308	13.00	200	0.518	0.235
			4 PL 7057	Mega	E469	SP	7.83	.308	9.72	150	0.330	
			4 PL 7213	Mega	E415	SP	7.83	.308	12.00	185	0.319	
			4 PL 7047	Mega	E401	SP	7.83	.308	13.00	200	0.344	
			N PL 7105	Naturalis	N558	CEX	7.83	.308	11.00	170	0.354	0.177
			4 PL 7080	MaxRange Target	GB581	OTM	7.83	.308	11.30	175	0.581	0.286
7.62 mm (.310)			4 PL/HL 7005	D166	D166	FMJBT	7.87	.310	13.00	200	0.448	0.224
7.62 mm (.311)	4PH7074	7.62 x 39	4 PL/HL 7045	FMJ	S405	FMJ	7.91	.311	8.00	123	0.257	
8 mm (.323)	4PH8030	8 x 57 IS	4 PL/HL8001	Open Tip	G573	OT	8.20	.323	7.85	120	0.248	0.179
	4PH8031	8 x 57 IRS	N PL 8009	Naturalis	N559	CEX	8.20	.323	11.70	180	0.357	0.179
8.61 mm (.338)	4PH8068	.338 Lapua Mag.	4 PL/HL 8012	Lock Base	B408	FMJBT	8.60	.338	16.20	250	0.625	0.310
	4PH8090	.338 Norma Mag.	4 PL 8017	Scenar	GB488	OTM	8.60	.338	16.20	250	0.648	0.322
			4 PL 8013	Scenar	GB528	OTM	8.60	.338	19.44	300	0.736	0.368
			N PL 8020	Naturalis	N508	CEX	8.60	.338	15.00	231	0.373	
9.3 mm (.366)	4PH9050	9.3 x 62	4 PL/HL9018	Open Tip	G574	OT	9.30	.366	12.00	185	0.283	
			4 PL 9017	Mega	E433	SP	9.30	.366	18.50	285	0.339	
			N PL 9204	Naturalis	N560	CEX	9.30	.366	16.20	250	0.419	0.215

COMPONENTS - CENTERFIRE HANDGUN

CALIBER	BRASS CASES		BULLETS								
	Product No.	Designation	Product No.	Bullet name	Product code	Type	Bullet diameter		Weight		Ballistic coefficient
							mm	in	g	grs	
.32 (7.65 mm)	4HH8021	.32 S&W Long Wadcutter	4 PL 8023	Lead Wadcutter	C427	LWC	7.99	.314	5.35	83	0.029
			4 PL 8021	Lead Wadcutter	C356	LWC	7.99	.314	6.35	98	0.041



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