



# LAPUA





## Catalog contents:

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• Passion for Precision since 1923	3
• New Lapua Cases	4-5
• Lapua Brand Store	6
• Centerfire Products	7-43
• Cartridges	7-24
• Cases	26-35
• Bullets	36-41
• Hunting	42-43
• Rimfire Products	44-46
• Rimfire Test Centers	47
• Tactical	48
• Tactical Bullets	49
• Cartridge Data	50-57
• Component Data	58
• Lapua Mobile Apps	59

### Certified

Nammo Lapua Oy is certified in accordance with the ISO 9001:2015 quality system standard, AQAP 2110 (Ed. D Ver 1), the ISO 14001: 2015 environmental standard and the ISO 45001: 2018 occupational health and safety standard.

Part of Nammo Group

## Passion for Precision since **1923**

At Lapua, we have always taken pride in producing the best ammunition for people and situations where accuracy truly matters.

For more than a hundred years, we have used our depth of experience and state of the art production and quality control to create offerings unrivalled for their precision, consistency and downrange performance. This "Passion for Precision" is the blueprint for our success every day, in everything we do.



# NEW LAPUA CASES!

## .300 WSM

## 6mm GT



### Lapua .300 WSM Cartridge Cases

Over the last 20 years the firearms industry has seen a rise in the popularity of rifle cartridges designed to equal or exceed the performance of the traditional belted magnums but without some of the limitations of cartridge overall length. Among the multitude of new cartridges, one of the most successful of these has been the .300 Winchester Short Magnum (WSM). The .300 WSM provides many competitive features and advantages over legacy belted magnum cartridges, delivering energy equal to the .300 Win Mag and conveniently integrated into a short action rifle design. These features include enhanced rigidity, a shorter bolt throw, a compact pow-

der column, and reduction in weight - all attributes which enhance performance during the hunt or on the firing line.

Available this spring, Lapua introduces .300 WSM cartridge cases, finally providing a superior quality case component for its loyal followers. Lapua cartridge cases are known to exceed the quality and longevity of all others offered on the market - our customers' words, not ours. Lapua uses only the highest quality materials and manufacturing processes to satisfy the demands of long-range shooters who seek the highest levels of precision from their .300 WSM firearm platforms.

### Lapua 6mm GT Cartridge Cases

New for 2024, Lapua will offer a superior choice for competitive shooters with Lapua 6mm GT cartridge cases. Experience unparalleled consistency, quality, and durability with Lapua's 6mm GT as you pursue excellence in the world of practical precision rifle sports.

The incredible growth witnessed in PRS, NRL, and similar competitive shooting disciplines the past 10 years has heralded the development of high performance, short-action cartridges like the 6mm GT. The GT provides flawless feeding from

bolt-action, magazine feed platforms when utilizing the latest high ballistic coefficient 6mm projectiles. Its ultra-efficient cartridge provides low recoil impulse for easy target acquisition and offers excellent precision and velocity consistency.

The Lapua 6mm GT difference: We provide superior cartridge geometry that is based on the original 6.5x47mm Lapua parent case. This maximizes longevity and optimizes case capacity for the competitive shooter.

VISIT  & SHOP OFFICIAL  
**LAPUA® MERCH!**



# LAPUA® CENTERFIRE

Superbly accurate target shooting cartridges

## The finest ammunition in numerous calibers

All Lapua cartridges feature superior accuracy characteristics. Reliable and timely ignition, optimal muzzle velocity and excellent ballistic properties are the result of well designed and carefully manufactured components. The Lapua cartridge is the perfect combination of state-of-the-art brass, exceptional bullets together with top-notch primers and gun powder. Assemble these with our well known passion for precision, and you have simply the finest ammunition in the world. Our versatile range of target cartridges offers solutions for all kinds of sport shooting disciplines such as long range, rifle silhouette, practical shooting and many more.

Despite the automation in production and quality assurance, our staff personally inspects every ammunition lot and, if necessary, even each individual cartridge. The finishing touch of the carefully controlled manufacturing process is the primer and powder, perfectly compatible with the case and the bullet. We work together with the leading powder and primer manufacturers to carefully choose the powder and a dependable primer that best fits each cartridge type. Reliability and accuracy of the ammunition we produce is continuously proven in test shootings.





\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Full Metal Jacket (FMJ) <b>3.6 g / 55 gr</b>		<b>910</b>	<b>2985</b>	<b>0.230</b>	-
Bullet code S569				168 GEE *	
				184 PBR *	

Product no. 4315021  
SPORT / HUNT

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>3.2 g / 50 gr</b>		<b>1015</b>	<b>3330</b>	<b>0.197</b>	-
Bullet code N566				185 GEE *	
LEAD FREE BULLET				202 PBR *	

Product no. N315026  
HUNT

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Soft Point (SP) <b>3.6 g / 55 gr</b>		<b>880</b>	<b>2887</b>	<b>0.185</b>	-
Bullet code E539				163 GEE *	
				175 PBR *	

Product no. 4315030  
SPORT / HUNT

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Open Tip Match (Scenar-L) <b>4.5 g / 69 gr</b>		<b>830</b>	<b>2723</b>	<b>0.341</b>	<b>0.171</b>
Bullet code GB544					

Product no. 4315015  
SPORT / TACTICAL

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>3.2 g / 50 gr</b>		<b>965</b>	<b>3166</b>	<b>0.197</b>	-
Bullet code N566				176 GEE *	
LEAD FREE BULLET				198 PBR *	

Product no. N315025  
HUNT

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Full Metal Jacket (FMJ) <b>5.8 g / 90 gr</b>		<b>885</b>	<b>2905</b>	-	-
Bullet code S561				176 GEE *	
				192 PBR *	

Product no. 4316052  
SPORT / HUNT

Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Full Metal Jacket (FMJ) <b>3.6 g / 55 gr</b>		<b>955</b>	<b>3133</b>	<b>0.255</b>	-
Bullet code S569				181 GEE *	
				198 PBR *	

Product no. 4315042  
SPORT / HUNT / TACTICAL



Bullet type / weight		Muzzle velocity		Ballistic coefficient	
		m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>5.8 g / 90 gr</b>		<b>910</b>	<b>2985</b>	<b>0.230</b>	-
Bullet code N509				167 GEE *	
LEAD FREE BULLET				183 PBR *	

Product no. N316201  
HUNT







\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.

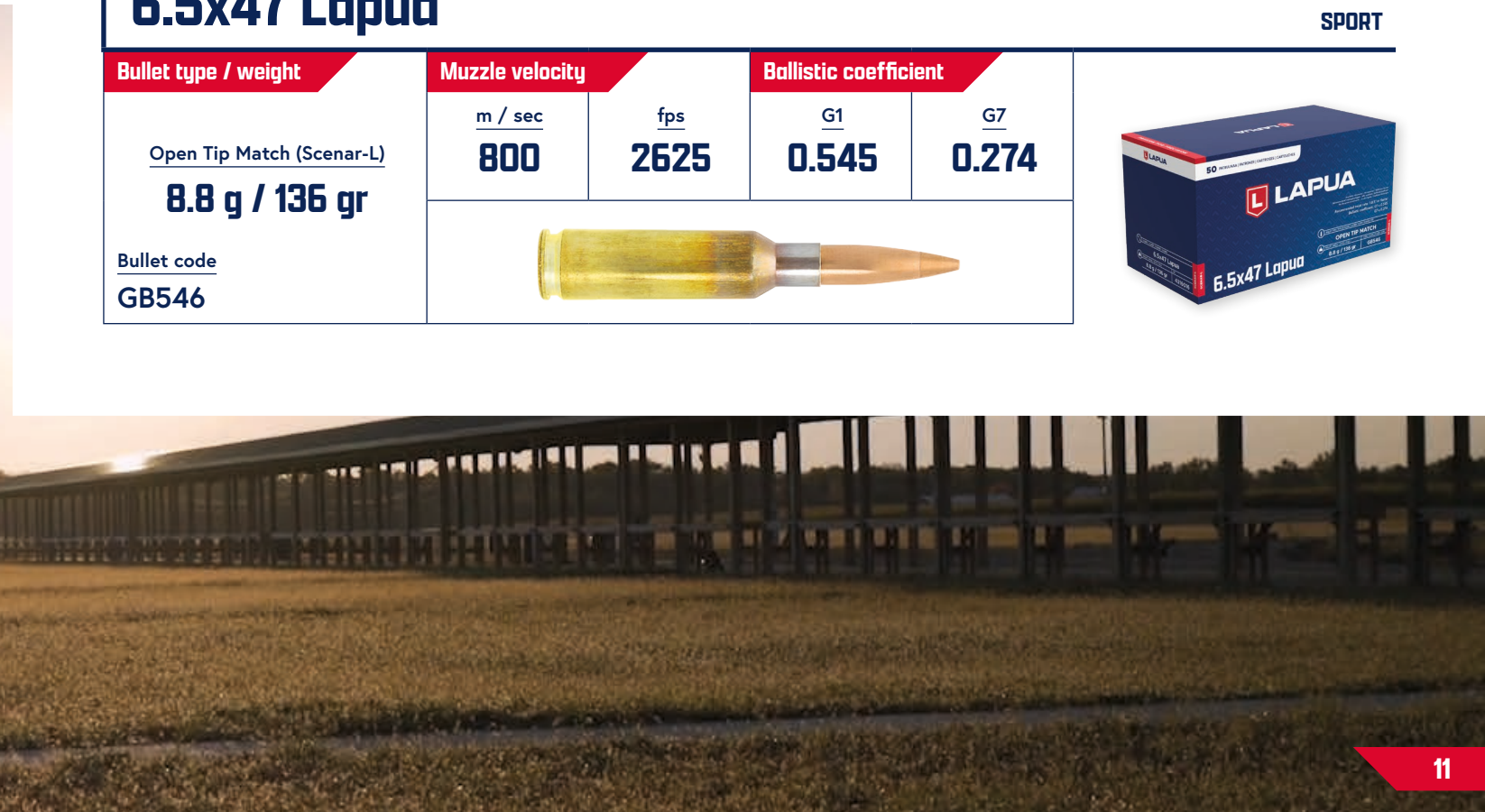
6 mm BR Norma		Product no. 4316044			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>5.8 g / 90 gr</b>	<b>900</b>	<b>2950</b>	<b>0.434</b>	<b>0.216</b>	
Bullet code GB543					

6.5x47 Lapua		Product no. 4316017			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>7.8 g / 120 gr</b>	<b>845</b>	<b>2772</b>	<b>0.497</b>	<b>0.246</b>	
Bullet code GB547					

6 mm BR Norma		Product no. 4316047			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>6.8 g / 105 gr</b>	<b>815</b>	<b>2674</b>	<b>0.472</b>	<b>0.236</b>	
Bullet code GB542					

6.5x47 Lapua		Product no. 4316011			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>8.0 g / 123 gr</b>	<b>850</b>	<b>2790</b>	<b>0.527</b>	<b>0.263</b>	
Bullet code GB489					



6.5x47 Lapua		Product no. 4316016			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>8.8 g / 136 gr</b>	<b>800</b>	<b>2625</b>	<b>0.545</b>	<b>0.274</b>	
Bullet code GB546					





\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.



<b>6.5x47 Lapua</b>					Product no. 4316012
					SPORT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>9.0 g / 139 gr</b>	<b>820</b>	<b>2690</b>	<b>0.578</b>	<b>0.290</b>	
Bullet code GB458					

<b>6.5 Creedmoor</b>					Product no. N316401
					HUNT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) <b>9.1 g / 140 gr</b>	<b>815</b>	<b>2674</b>	<b>0.472</b>	<b>0.236</b>	
Bullet code N563	LEAD FREE BULLET				
					148 GEE * 160 PBR *

<b>6.5x47 Lapua</b>					Product no. N316301
					HUNT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) <b>9.1 g / 140 gr</b>	<b>807</b>	<b>2648</b>	<b>0.201</b>	-	
Bullet code N563	LEAD FREE BULLET				
					150 GEE * 165 PBR *

<b>6.5 Creedmoor</b>					Product no. 4316054
					HUNT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Soft Point (Mega) <b>10.1 g / 156 gr</b>	<b>780</b>	<b>2559</b>	<b>0.377</b>	-	
Bullet code E471					
					156 GEE * 171 PBR *

<b>6.5 Creedmoor</b>					Product no. 4316050
					SPORT / TACTICAL
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>8.0 g / 123 gr</b>	<b>850</b>	<b>2790</b>	<b>0.527</b>	<b>0.263</b>	
Bullet code GB489					

<b>.260 Remington</b>					Product no. 4316065
					SPORT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>8.8 g / 136 gr</b>	<b>814</b>	<b>2671</b>	<b>0.545</b>	<b>0.274</b>	
Bullet code GB546					



<b>6.5 Creedmoor</b>					Product no. 4316063
					SPORT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>8.8 g / 136 gr</b>	<b>835</b>	<b>2740</b>	<b>0.545</b>	<b>0.274</b>	
Bullet code GB546					

<b>6.5x55 SE</b>					Product no. 4316033
					SPORT / HUNT
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Full Metal Jacket (FMJ) <b>6.5 g / 100 gr</b>	<b>830</b>	<b>2723</b>	<b>0.250</b>	-	
Bullet code S341					
					159 GEE * 174 PBR *







\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.


6.5x55 SE		Product no. 4316035			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>6.5 g / 100 gr</b>	<b>800</b>	<b>2625</b>	<b>0.424</b>	<b>0.212</b>	
Bullet code GB504					

6.5x55 SE		Product no. 4316032			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>8.0 g / 123 gr</b>	<b>830</b>	<b>2723</b>	<b>0.527</b>	<b>0.263</b>	
Bullet code GB489					



6.5x55 SE		Product no. 4316031			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>7.0 g / 108 gr</b>	<b>900</b>	<b>2950</b>	<b>0.465</b>	<b>0.231</b>	
Bullet code GB464					

6.5x55 SE		Product no. 4316036			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>8.0 g / 123 gr</b>	<b>920</b>	<b>3015</b>	<b>0.527</b>	<b>0.263</b>	
Bullet code GB489					

6.5x55 SE		Product no. 4316038			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>7.8 g / 120 gr</b>	<b>830</b>	<b>2723</b>	<b>0.497</b>	<b>0.246</b>	
Bullet code GB547					

6.5x55 SE		Product no. 4316040			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>8.8 g / 136 gr</b>	<b>815</b>	<b>2674</b>	<b>0.545</b>	<b>0.274</b>	
Bullet code GB546					

6.5x55 SE		Product no. 4316039			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>7.8 g / 120 gr</b>	<b>920</b>	<b>3018</b>	<b>0.497</b>	<b>0.246</b>	
Bullet code GB547					

6.5x55 SE		Product no. 4316030			
		SPORT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) <b>9.0 g / 139 gr</b>	<b>800</b>	<b>2625</b>	<b>0.424</b>	<b>0.212</b>	
Bullet code GB458					



\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.

6.5x55 SE					Product no. N316102
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) <b>9.1 g / 140 gr</b>	<b>800</b>	<b>2625</b>	<b>0.201</b>	-	
Bullet code N563			152 GEE * 164 PBR *		



6.5x55 SE					Product no. 4316021
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Soft Point (Mega) <b>10.1 g / 156 gr</b>	<b>780</b>	<b>2559</b>	<b>0.377</b>	-	
Bullet code E471			156 GEE * 171 PBR *		

7x64					Product no. N317322
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) <b>10.1 g / 156 gr</b>	<b>840</b>	<b>2756</b>	<b>0.280</b>	-	
Bullet code N564			163 GEE * 173 PBR *		

7x65R					Product no. N317323
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) <b>10.1 g / 156 gr</b>	<b>840</b>	<b>2756</b>	<b>0.280</b>	-	
Bullet code N564			163 GEE * 173 PBR *		

.308 Winchester					Product no. 4317527
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Full Metal Jacket (FMJ) <b>8.0 g / 123 gr</b>	<b>895</b>	<b>2936</b>	<b>0.270</b>	-	
Bullet code S374			173 GEE * 189 PBR *		

.308 Winchester					Product no. 4317498
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Soft Point (Mega) <b>9.7 g / 150 gr</b>	<b>850</b>	<b>2790</b>	<b>0.330</b>	-	
Bullet code E469			168 GEE * 184 PBR *		

.308 Winchester					Product no. 4317076
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) <b>10.0 g / 155 gr</b>	<b>860</b>	<b>2820</b>	<b>0.460</b>	<b>0.230</b>	
Bullet code GB552					


PASSION FOR PRECISION






\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.

<b>.308 Winchester</b>		Product no. 4317515			
		SPORT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) 10.85 g / 167 gr	820	2690	0.446	0.223	
Bullet code GB422					

<b>.308 Winchester</b>		Product no. 4317520			
		SPORT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar-L) 11.3 g / 175 gr	793	2602	0.490	0.247	
Bullet code GB550					



<b>.308 Winchester</b>		Product no. 4317596			
		SPORT / HUNT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Lock Base 11.0 g / 170 gr	840	2756	0.498	0.249	
Bullet code B476					

<b>.308 Winchester</b>		Product no. 4317523			
		SPORT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) 12.0 g / 185 gr	755	2475	0.482	0.242	
Bullet code GB432					

<b>.308 Winchester</b>		Product no. 43M7600			
		SPORT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Lock Base Semi-Auto 11.0 g / 170 gr	744	2441	0.498	0.249	
Bullet code B476					

<b>.308 Winchester</b>		Product no. 4317189			
		HUNT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Soft Point (Mega) 12.0 g / 185 gr	765	2690	0.319	-	
Bullet code E415			151 GEE *	165 PBR *	

<b>.308 Winchester</b>		Product no. N317105			
		HUNT			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) 11.0 g / 170 gr	800	2625	0.354	0.177	
Bullet code N558			159 GEE *	174 PBR *	

<b>.308 Winchester</b>		Product no. 4317590			
		SPORT / HUNT / TACTICAL			
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Full Metal Jacket Boat Tail 12.0 g / 185 gr	760	2490	0.506	0.254	
Bullet code D46					



\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.

## .308 Winchester


Product no. 4317340 **TACTICAL**


Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Full Metal Jacket Boat Tail <b>13.0 g / 200 gr</b>	<b>325</b>	<b>1066</b>	<b>0.518</b>	<b>0.235</b>
Bullet code B416 Subsonic				



## .30-06 Springfield

Product no. 4317567 **HUNT**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Soft Point (Mega) <b>13.0 g / 200 gr</b>	<b>775</b>	<b>2545</b>	<b>0.344</b>	-
Bullet code E401			154 GEE * 168 PBR *	



## .30-06 Springfield

Product no. 4317577 **SPORT / HUNT**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Full Metal Jacket (FMJ) <b>8.0 g / 123 gr</b>	<b>895</b>	<b>2936</b>	<b>0.270</b>	-
Bullet code S374			173 GEE * 189 PBR *	



## .300 Win Mag.

Product no. N317204 **HUNT**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>11.0 g / 170 gr</b>	<b>902</b>	<b>2959</b>	<b>0.354</b>	<b>0.177</b>
Bullet code N558 			178 GEE * 195 PBR *	



## .30-06 Springfield


Product no. N317106 **HUNT**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>11.0 g / 170 gr</b>	<b>830</b>	<b>2723</b>	<b>0.354</b>	<b>0.177</b>
Bullet code N558 			165 GEE * 180 PBR *	



## .300 Win Mag.

Product no. 4317312 **HUNT**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Soft Point (Mega) <b>12.0 g / 185 gr</b>	<b>830</b>	<b>2723</b>	<b>0.319</b>	-
Bullet code E415			163 GEE * 178 PBR *	



## .30-06 Springfield


Product no. 4317563 **HUNT**


Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Soft Point (Mega) <b>12.0 g / 185 gr</b>	<b>800</b>	<b>2625</b>	<b>0.319</b>	-
Bullet code E415			157 GEE * 172 PBR *	



## .300 Win Mag.

Product no. 4317308 **SPORT / TACTICAL**

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Open Tip Match (Scenar) <b>12.0 g / 185 gr</b>	<b>900</b>	<b>2953</b>	<b>0.482</b>	<b>0.242</b>
Bullet code GB432				







\* Point-Blank Range (PBR)  
 \* Die günstigste Einschußentfernung (GEE)  
 \* The more detailed product data charts can be found on the pages 64-72.



8x57 IRS					Product no. N318010
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) 11.7 g / 180 gr	800	2625	0.248	-	
Bullet code N559 					



8x57 IS					Product no. 4318029
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip 7.8 g / 120 gr	940	3084	0.248	-	
Bullet code G573					

8x57 IS					Product no. N318009
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) 11.7 g / 180 gr	820	2690	0.357	0.179	
Bullet code N559 					

.338 Lapua Mag.					Product no. N318020
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Expanding bullet (Naturalis) 15.0 g / 231 gr	920	3018	0.373	-	
Bullet code N508 					

.338 Lapua Mag.					Product no. 4318017
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) 16.2 g / 250 gr	905	2970	0.648	0.322	
Bullet code GB488					

.338 Lapua Mag.					Product no. 4318033
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Lock Base 16.2 g / 250 gr	900	2953	0.625	0.310	
Bullet code B408					

.338 Lapua Mag.					Product no. 4318013
Bullet type / weight	Muzzle velocity		Ballistic coefficient		
	m / sec	fps	G1	G7	
Open Tip Match (Scenar) 19.4 g / 300 gr	820	2690	0.736	0.368	
Bullet code GB528					

**PASSION FOR PRECISION**

# CENTERFIRE

CARTRIDGES



## 9.3x62

Product no. 4319012

SPORT / HUNT


Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Open Tip <b>12.0 g / 185 gr</b>	<b>845</b>	<b>2772</b>	<b>0.283</b>	-
Bullet code <b>G574</b>			164 GEE * 179 PBR *	



## 9.3x62

Product no. N319204

HUNT


Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Expanding bullet (Naturalis) <b>16.2 g / 250 gr</b>	<b>740</b>	<b>2428</b>	<b>0.419</b>	<b>0.215</b>
Bullet code <b>N560</b> 			150 GEE * 164 PBR *	



## 9.3x62

Product no. 4319010

HUNT

Bullet type / weight	Muzzle velocity		Ballistic coefficient	
	m / sec	fps	G1	G7
Soft Point (Mega) <b>18.5 g / 285 gr</b>	<b>690</b>	<b>2265</b>	<b>0.339</b>	-
Bullet code <b>E433</b>			140 GEE * 153 PBR *	



# LAPUA



FIND YOUR PASSION.

PASSION FOR PRECISION

\* Point-Blank Range (PBR)

\* Die günstigste Einschußentfernung (GEE)

\* The more detailed product data charts can be found on the pages 64-72.



# LAPUA® CASES

The most precise cases on the market

Lapua cases are the best in the world, a statement supported by all top marksmen. We focus on every single detail to create the best cartridge case in the world. From the strict tolerances of primer pockets and flash holes to the necking process, Lapua brass is manufactured to be reloaded again and again. For reloaders who require absolute reliability from their ammunition, Lapua's world famous brass is the answer.

One thing is certain; we never leave our brass behind.



## .222 Remington



Caliber: 5.69 mm (.224)

Product no. 4PH5002

Our .222 Remington is a pure Lapua quality product produced with extremely tight tolerances in neck concentricity and wall thickness. This flat shooting little round is excellent for small game hunting and varmint purposes. The Lapua .222 Rem. brass can be reloaded time after time, without losing its performance and precision.

## .223 Remington



Caliber: 5.69 mm (.224)

Product no. 4PH5003

Lapua's .223 Remington Match case shows unbelievable performance when it comes to both durability and precision. Consistent quality guarantees consistent results. The large case volume ensures high velocity potential. Lapua offers a true match quality brass case for this classic military cartridge, allowing it to live up to its potential as a competitive cartridge.

## .220 Russian



Caliber: 5.69 mm (.224)

Product no. 4PH5013

The Lapua .220 Russian case is the most popular brass for benchrest shooting. The .220 Russian is the parent case for the .22 PPC, 6mm PPC and the 6.5mm Grendel cartridge. More than 90 % of all the benchrest shooters in the world use Lapua's .220 Russian cases as a parent case for 6mm PPC. There is no doubt - Lapua's .220 Russian brass is the king of benchrest reloading.

## .22-250 Remington



Caliber: 5.69 mm (.224)

Product no. 4PH5001

Potent and versatile. Lapua sets the industry standard in Match quality cases, and our .22-250 brass follows in this proud tradition. From varminting to long range target shooting, the .22-250 still remains one of the most potent and versatile of the .22 caliber cartridges.

## .243 Winchester



Caliber: 6 mm (.243)

Product no. 4PH6009

The .243 Winchester case has all the world famous qualities of Lapua's unrivaled .308 Winchester brass. With a light bullet load the .243 Win. case works like a charm for long distance varmint and bird hunting. For larger game, such as deer, the optimal choice of bullet weights is 100 - 105 gr.

## 6 mm Creedmoor



Caliber: 6 mm (.243)

Product no. 4PH6022

Our 6mm Creedmoor is a beautifully drawn case, properly annealed at the neck and shoulder, with head metallurgy specifically chosen for durability, and the same small rifle primer, small flash-hole design that delivers the ultimate accuracy edge. The smaller 6mm bore diameter offers an excellent selection of proven low-drag match bullets that offer outstanding long range performance with even less recoil.

## 6 mm BR Norma



Caliber: 6 mm (.243)

Product no. 4PH6046

Without exaggeration, Lapua's 6mm BR case is absolutely the best case in its class. The 6mm Norma BR has become a popular chambering in match rifles used in 300 meter rifle disciplines. Lapua's 6mm BR Norma is the standard to which all other cases are compared.

## 6.5x55 SE



Caliber: 6.5 mm (.264)

Product no. 4PH6012

"Old soldiers will never die". Lapua's 6.5x55 SE is a proof of that – it has long been most popular caliber all over Scandinavia, and now its characteristics and performance have been noted by shooters and hunters in other parts of the world as well. It has been and still is especially popular in the Scandinavian countries, including long-range field shooting discipline, Lapua's 6.5x55 SE delivers a flatter trajectory and excellent ballistics. Though traditionally most used at longer ranges, our 6.5x55 SE is today extremely popular in competitions from 100 to 800 meters.

## 6.5-284



The favorite brass of long range shooters and an ideal selection for any game where a potent .264" cartridge is considered suitable. This world renowned Lapua brass is of match quality that can be loaded more times than any brass from competitors. Lapua 6.5-284 is the reloader's dream.

Caliber: 6.5 mm (.264)

Product no. 4PH6030

## 6.5x47 Lapua



A true masterpiece. The 6.5x47 Lapua case has base diameter and loading length similar to the .308 Win., allowing it to accept the same bolt heads and fit into similar actions and magazines. Lapua's 6.5x47 case is also the parent case of several popular wildcats, and is frequently necked down to 6mm.

Caliber: 6.5 mm (.264)

Product no. 4PH6010

## 6.5 Grendel



Tack-driving accuracy. The 6.5 Grendel case is tailored to fit the AR-15 action and it dramatically outperforms the .223 Rem. and other cartridges normally used in the AR-15. The 6.5 Grendel is continuously growing in popularity in all disciplines which demand light recoil and tack-driving accuracy.

Caliber: 6.5 mm (.264)

Product no. 4PH6020

## .260 Remington



Offering the same level of ballistic performance as the venerable 6.5x55, the modern case design of the .260 Remington delivers superb accuracy in a short action format. Having already established its tremendous versatility not only in the game fields, but on silhouette ranges, the .260 is a natural for the Lapua line.

Caliber: 6.5 mm (.264)

Product no. 4PH6050

## 6.5 Creedmoor (Small Rifle Primer)



Made with Lapua's typical dedication to precision, our 6.5 Creedmoor case has been refined just a bit, to make it an even better performer. We offer the 6.5 Creedmoor with the small rifle primer which normally produces an optimized ignition and better accuracy in mid-sized cartridges, as well as the large rifle primer version.

Caliber: 6.5 mm (.264)

Product no. 4PH6011

## 6.5 Creedmoor (Large Rifle Primer)



The 6.5 Creedmoor LRP offering provides reliable ignition with a large primer in the most extreme weather conditions for hunting, competitive shooting or military / law enforcement support. It also functions and performs flawlessly in today's ever-popular semi-auto gas guns, AR's, and other similar platforms predominantly used in the US market place.

Caliber: 6.5 mm (.264)

Product no. 4PH6013

## 6.5 PRC



Although the 6.5 Precision Rifle Cartridge (or PRC for short) was originally designed for long range hunting, the 6.5 PRC is still an excellent cartridge for both long range sport shooting and hunting. Its increased case capacity enables velocities up to 80 m/s (262 fps) faster than the 6.5 Creedmoor or 6,5x55 SE. By design, the cartridge features a longer throat enabling the use of today's popular, high ballistic coefficient (BC) projectiles for long-range competitions.

Caliber: 6.5 mm (.264)

Product no. 4PH6023

## 7mm-08 Remington



The 7mm-08 came to dominate the High Power Silhouette rifle game shortly after its introduction, offering a superb combination of power, light recoil and accuracy. With ballistic performance exceeding that of the time honored 7x57mm Mauser, but suited to a shorter action, the 7mm-08 is an ideal caliber for most big game hunting.

Caliber: 7 mm (.284)

Product no. 4PH7095

## 7x64



Caliber: 7 mm (.284)

Product no. 4PH7105

The 7x64 has succeeded in maintaining its position as one of the most popular hunting caliber in Europe. Since then, it has earned a well deserved reputation for itself as a medium size game hunting round – its performance even exceeds the performance requirements of moose hunting round in most countries.

## 7x65R



Caliber: 7 mm (.284)

Product no. 4PH7107

One of the most popular calibers in Central European hunting for double rifles and combination guns is now available as a reloading component for all enthusiastic hunters and home loaders. Optimized for tens of reloading cycles with reliable removal from the chamber.

## .284 Winchester



Caliber: 7 mm (.284)

Product no. 4PH7284

The .284 Winchester cartridge has experienced a recent resurgence in F-Class competition, where shooters compete to distances out to 1,000 m/yd. Members of the US Rifle Team, which Lapua sponsors, will enjoy having cases readily available in this classic cartridge. The .284 Winchester's rebated rim design enables a larger powder column, yet easily functions through medium length actions making it desirable for custom rifles.

## .308 Winchester



Caliber: 7.62 mm (.308)

Product no. 4PH7217

One of Lapua's flagship cases. Our .308 Winchester case has made Lapua quality world renowned. It continues to be the standard by which all other cases in this popular rifle caliber are judged. The main advantage of our .308 Win. brass is the premium consistency and quality.

## 7.62x53R



Caliber: 7.62 mm (.308)

Product no. 4PH7215

The Finnish legend. This case is a legendary Finnish innovation, still used in military, Scandinavian hunting and traditional rifle competitions. Lapua has manufactured 7.62x53R cases for almost a century, and this caliber is well known for its ultimate quality and consistent performance.

## .308 Winchester Palma



Caliber: 7.62 mm (.308)

Product no. 4PH7226

Long-range accuracy by Lapua. Developed in conjunction with the US Palma team, the small rifle primer case is designed to deliver enhanced long-range accuracy for the most demanding competitive applications. Lapua's .308 Palma Win. brass has been acclaimed as a success by rifle shooters everywhere.

## .300 Norma Magnum



Caliber: 7.62 mm (.308)

Product no. 4PH7090

A recent development based on the .338 Norma Magnum necked down to .30 caliber, the .300 Norma Magnum was adopted as the US military's Advanced Sniper Cartridge "for extra long ranges beyond 1500 meters". In addition to its military duties, the .300 Norma is sure to find favor with long-range competitive shooters and hunters.

## .300 Winchester Magnum



Caliber: 7.62 mm (.308)

Product no. 4PH7096

The .300 Winchester Magnum has been a staple within the firearms industry, widely used by hunters, target shooters, military and law enforcement agencies around the globe since its development in the early 60's. It is still used for competitive target shooting, hunting, and Mil/LE platforms to-date. It delivers excellent long range performance with a wide range of bullet weights from 165 to 200 grains and more.

## .300 PRC



Caliber: 7.62 mm (.308)

Product no. 4PH7098

The .300 PRC was designed for extreme long range shooting with heavy bullets featuring high ballistic coefficients. Its superior ballistics and beltless case configuration represent modern case design that supports the use of modern long and high BC bullets. With its ability to load heavier bullets, the performance of the .300 PRC exceeds the .300 Winchester Magnum and many other .30 Magnums on the market.

## .30-06 Springfield



Caliber: 7.62 mm (.308)

Product no. 4PH7068

Durability for reloading. The venerable .30-06 case offers an even greater powder capacity than the .308, but the Lapua quality remains the same. Like its smaller stable mate, the .30-06 has the same durable construction and incredible precision, allowing for many, many reloadings.

## 7.62x39



Caliber: 5.62 mm (.311)

Product no. 4PH7074

Best in its class. Lapua's 7.62x39 brass offers match quality that no other manufacturer has for this caliber. When it comes to competition, Lapua's 7.62x39 case is the unquestioned champion over all others.

## 8x57 IS



Caliber: 8 mm (.323)

Product no. 4PH8030

From African plains game to European stag and boar, the 8mm Mauser has earned an enviable reputation as a big game round in a wide array of conditions. Accurate, versatile and powerful, the 8x57 IS still serves the sporting community well for a host of hunting applications.

## 8x57 IRS



Caliber: 8 mm (.323)

Product no. 4PH8031

Lapua standard for breech brake combination guns like double rifles, drillings and vierlings. No matter what kind of game you are aiming, the quality of the case will not be the one to blame if you miss. Tens of reloading cycles will tell you the secret of Lapua's incredible case quality.

## .338 Lapua Magnum



Caliber: 8.61 mm (.338)

Product no. 4PH8068

The unbeaten champion. Lapua's signature development, the original .338 Lapua Magnum is the undisputable choice for those who want to build their own long range rifle cartridge, using only the very best available components. The accuracy, reloadability and repeatability of .338 Lapua Mag. brass are unbeaten. The .338 LM case is a favorite among top rifle shooters around the world and in all kinds of shooting disciplines and hunting grounds.

## .338 Norma Magnum



Caliber: 8.61 mm (.338)

Product no. 4PH8090

Based on the .416 Rigby case, the .338 Norma Magnum was developed by J. Sloan and D. Kiff as a long-range sporting cartridge. Norma adopted the design and standardized it with CIP in 2010. The US military has spurred the development of some machineguns chambered for the .338 Norma, which would be capable of providing superb long-range capability. With Lapua's unmatched standard of quality, handloaders will find our new .338 Norma Magnum cases a choice for extra long range shooting applications.

## 9.3x62



Caliber: 9.3 mm (.366)

Product no. 4PH9050

The hunter's brass choice. The 9,3x62 case is the top choice for hunters of big game who tailor their own rifle loads. True stopping power for big and dangerous game. A life-long partner for hunters worldwide.

# LAPUA® BULLETS

## Precision projectiles to fit your passion

Lapua bullets are known for their extreme accuracy and superior ballistic designs. From the world famous Scenar and Scenar-L, to the variations of FMJ, all of which are optimized for their intended use, and finishing with the NATURALIS and MEGA for hunters. From Olympic Gold to World Championships or local matches, to the mountains and woods, whatever your shooting pursuit, there is a LAPUA bullet perfectly tailored for it.

Lapua bullet development is ongoing and methodical. Drawing on our own experience, R&D, and listening carefully to reloaders and their feedback, we continually work to perfect our product offerings for every type of shooting discipline.



## 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<sup>L</sup> (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
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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
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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
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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
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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)



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



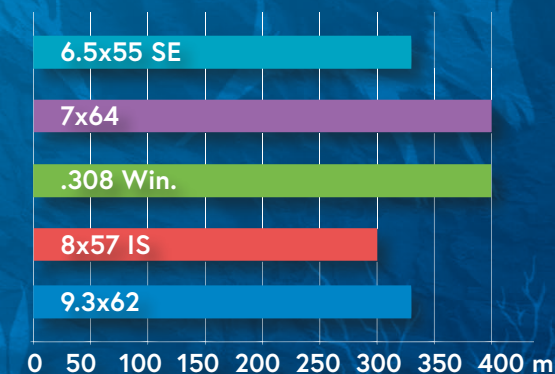
The Naturalis bullet is designed and manufactured by using pure copper. The material, design and controlled expansion ensures a solid and nearly unbreakable construction. The weight retention, even after impacting on heavy bone, is frequently 100% of the bullet's original weight. The boat tail design 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



## 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® RIMFIRE

**.22 LR cartridges for the best, by the best**

## RIMFIRE PERFECTION

Whatever your competitive shooting discipline, you'll find the perfect offering from our selection of .22 LR rimfire cartridges.

Serious rimfire competitors use the best firearm and ammunition available to them. Lapua continues to deliver exceptional performance – from ISSF disciplines to rimfire benchrest shooting, biathlon, pistol, and 60-shot prone .22 LR competitions. Continue to feed your competition firearm platforms the ammunition that has no equal. Find your passion with Lapua .22 LR rimfire ammunition.

## THE STATISTICS PROVE IT

Throughout the years, Lapua rimfire ammunition has been the steady forerunner and the number one choice of the best shooters at countless Olympics, World Championships and other major shooting events.

During the last Olympic winter games 95% of all competing athletes used Lapua Polar Biathlon ammunition.



**MORE THAN  
95%!**



### X-ACT

**Extreme passion for precision**

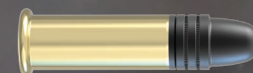
Lapua's X-ACT .22 LR ammo has been developed after an extensive research program to unite all of the best properties of each of the components. The shooters can depend on the absolute accuracy and consistency of this cartridge, known as an extremely sophisticated product of highest quality. X-ACT has been tested by most of the world's top rimfire shooters, and the comments have been nothing but praise: "The best .22 LR ammunition I ever shot." Our X-ACT ammunition is the true embodiment of our Passion for Precision.



### MIDAS+

**The new generation Midas cartridge**

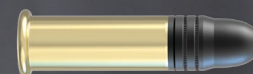
Lapua's Midas+ rimfire ammunition is the improved generation of Midas. The long success story of Midas ammo brought a lot of excellent results, which have been used as the basis for the new generation cartridges. Always accurate, this is the .22 LR ammunition of choice for many world class rimfire shooters.



### CENTER-X

**Versatility and superb performance**

Lapua's Center-X gives you the confidence of high quality .22 long rifle match ammunition. This ammo is widely used by rimfire enthusiasts around the world. Lapua's Center-X is a versatile .22 LR cartridge known for its superb performance.



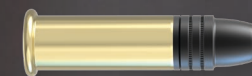
### POLAR BIATHLON

**Ideal target performance in all conditions**

Lapua Polar Biathlon has been the ammunition behind the vast majority of biathlon medals won worldwide for many years. This cartridge is specifically designed for use in the frigid conditions common to most biathlon competitions. Lapua's Polar Biathlon round offers ideal performance under all conditions, with consistent accuracy and reliable ignition.

Lapua Polar Biathlon is used by nearly all of the National Biathlon Teams for cold weather competition.

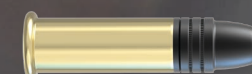
Lapua works closely with the International Biathlon Union and actively promotes biathlon sports.



### PISTOL OSP

**Worldwide pistol ammo favorite**

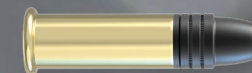
Lapua's Pistol OSP is a specialized ammunition for OSP (Olympic Sport Pistol) disciplines. Constant, accurate and precise, it is a favorite among rapid fire pistol shooters worldwide.



### PISTOL KING

**Loaded for success**

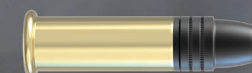
This .22 LR ammunition was developed to be an extremely accurate competition cartridge ideal for short barreled firearms. It is consistent, provides excellent accuracy and gives smooth, reliable and dependable functioning. Lapua Pistol King has been loaded for success.



### LONG RANGE

**Excellent target performance for the long range**

A new subsonic rimfire round designed for long range shooting disciplines such as PRS, rimfire benchrest and Field Target shooting. Lapua Long Range has a flat trajectory and offers great performance at 100 m/yds and beyond.



### SUPER LONG RANGE

**Long range perfection**

The best of the best. Our new subsonic .22 LR ammunition performs with impeccable accuracy at ranges 100 m/yds and beyond. With a muzzle velocity of 337 m/s or 1106 fps, Lapua Super Long Range comes with a flat trajectory and improved wind performance. The perfect option for disciplines such as Long Range, PRS, rimfire benchrest and Field Target shooting.











# RIMFIRE

CARTRIDGES

## .22 LR cartridges

\* The more detailed product data charts can be found on the pages 67 and 71.

Cartridge type	Muzzle velocity		Ballistic coefficient	Image
	m / sec	fps	G1	
<b>X-Act</b> Bullet weight: 2.59 g / 40 gr Product no. 420161	<b>327</b>	<b>1073</b>	<b>0.172</b>	
<b>Midas+</b> Bullet weight: 2.59 g / 40 gr Product no. 420162	<b>327</b>	<b>1073</b>	<b>0.172</b>	
<b>Center-X</b> Bullet weight: 2.59 g / 40 gr Product no. 420163	<b>327</b>	<b>1073</b>	<b>0.172</b>	
<b>Pistol King</b> Bullet weight: 2.59 g / 40 gr Product no. 420164	<b>285</b>	<b>935</b>	<b>0.172</b>	
<b>Pistol OSP</b> Bullet weight: 2.59 g / 40 gr Product no. 420165	<b>280</b>	<b>919</b>	<b>0.172</b>	
<b>Polar Biathlon</b> Bullet weight: 2.59 g / 40 gr Product no. 420166	<b>337</b>	<b>1106</b>	<b>0.172</b>	
<b>Long Range</b> Bullet weight: 2.59 g / 40 gr Product no. 420168	<b>337</b>	<b>1106</b>	<b>0.172</b>	
<b>Super Long Range</b> Bullet weight: 2.59 g / 40 gr Product no. 420167	<b>337</b>	<b>1106</b>	<b>0.172</b>	

# Lapua rimfire test centers

## LAPUA, FINLAND

### LAPUA TEST CENTER

ADDRESS: Kustaa Tiituntie 1, FI-62100 Lapua, Finland

BOOKING: Olli Punkari +358 40 737 4955  
www.lapuatestcenter.fi

## KONNEVESI, FINLAND

### LAPUA TEST LAB

ADDRESS: Voipiovuorentie 50, FI-44300 Konnevesi, Finland

BOOKING: Veijo Sivula +358 45 677 0599

## SCHÖNEBECK, GERMANY

ADDRESS: Lapua Rimfire Test Range, Nammo Schönebeck GmbH, Wilhelm-Dümling-Straße 12, DE-39210 Schönebeck (Elbe), Germany

BOOKING: Tel. +49 3928 729 100,  
RimfireTestRange@nammo.com

## ROYKEN, NORWAY

ADDRESS: Lapua Test Range Norway, Testskyting No DA, Bryhnsveien 5, NO-3440 ROYKEN, Norway

BOOKING: Roy Skogly +47 906 35 101,  
roy@testskyting.no  
RimfireTestRange@nammo.com

## STOCKHOLM, SWEDEN

ADDRESS: Lapua Stockholm Test Range, Fabriksvägen 6, SE-17148 SOLNA, SWEDEN

BOOKING: Karl Olsson +46705666174  
info@karlolsson.se

## MESA, ARIZONA, USA

ADDRESS: Lapua Rimfire Performance Center, Capstone Precision Group, 4051 N. Higley Road, Mesa AZ 85215

BOOKING: Tel. +1 480 898 2731  
Devan Stricker, rimfiretest@capstonepg.com  
www.capstonepg.com/rpc/

## MARENGO, OHIO, USA

ADDRESS: Lapua Rimfire Performance Center, 616 State Route 61, Unite 3-9 Marengo, OH 43334

BOOKING: Tel. +1 480 898 2748  
rimfiretesteast@capstonepg.com  
www.capstonepg.com/rpc/

The Lapua rimfire test centers are a partner for shooters from all around the world. Our customers include numerous international top shooters and world champions.

Our mission is to provide serious competitors an opportunity to select the very best rimfire ammunition, matched specifically to their firearms. To that end, we offer the ability to test a variety of different types and lots of Lapua rimfire ammunition at our facilities in Germany, USA, Finland and Norway.

Testing is performed from a machined rest in a controlled environment, eliminating the variables associated with outdoor testing, shooter fatigue, and operator error.

The barreled action of the rifle is first removed from the stock then mounted into a precision machined bedding block. This block is then put into our return to battery fixture, which is attached to a large concrete block that has its own foundation separate from the rest of the building. We take these steps to ensure that as many variables as possible are removed during the testing process. This helps us to provide you with the most reliable testing data you can find.



# LAPUA® CENTERFIRE

## Tactical ammunition

Lapua is world renowned for offering the highest quality ammunition for elite forces and military / law enforcement professionals around the globe. All of Lapua's Tactical ammunition is produced to the same match-grade requirement as our target ammunition.

### The most accurate long-range cartridges

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 1500 meters. Despite this, the .338 Lapua Magnum operating systems are about the same size and weight as the 7.62mm systems. It's considerably lighter than the .50 caliber system making it an exceptional alternative to either platform.

## TACTICAL BULLETS // BALLISTIC COEFFICIENT

### .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	
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	*	*	*	*	*

### .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	
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
Lock Base	11.0 g / 170 gr	B476	0.511	0.476	0.402	0.287	0.249
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
Subsonic	13.0 g / 200 gr	B416				0.515	0.413
Scenar-L	14.3 g / 220 gr	GB551	0.647	*	*	*	0.324

### 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	
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	*	*	*	*	*

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

CARTRIDGES - CENTERFIRE RIFLE

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J] Wind 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)																				
					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	760	649	549							100	0	-132	-498								600	
			1394	1039	759	542								168 GEE	40	-52	-378								
	4315030	SP 3,6 g / 55 gr E539	880	713	574	461							100	0	-156	-615								600	
.223 Rem.	4315042	FMJ 3,6 g / 55 gr S569	955	828	712	606	362						100	0	-104	-404	-3418							660	
			1642	1234	913	661	236							300	135	165	0	-2610							
	N315026	Naturalis 3,2 g / 50 gr N566	1015	850	698	567							100	0	-98	-401									
.243 Win.	4316052	FMJ 5,8 g / 90 gr S561	885	796	712	634	434						100	0	-116	-425	-3122							610	
			2271	1837	1472	1166	546							300	142	168	0	-2272							
	N316201	Naturalis 5,8 g / 90 gr N509	910	776	655								100	0	-124										610
6 mm BR Norma	4316044	Scenar-L 5,8 g / 90 gr GB543	900	828	759	693	511						100	0	-103	-375	-2602							670	
			2349	1988	1670	1392	758							300	125	148	0	-1852							
	4316046	Scenar 6,8 g / 105 gr GB478	850	786	724	665	508	420	346				100	0	-118	-423	-2846	-6279	-11962						670
6.5x47 Lapua	4316017	Scenar-L 7,8 g / 120 gr GB547	845	782	720	660	499	407					100	0	-121	-432	-2909	-6452						660	
			2785	2382	2020	1699	970	645						300	144	167	0	-2045	-5300						
	4316011	Scenar 8,0 g / 123 gr GB489	850	792	736	681	532	444	362				100	0	-116	-412	-2720	-5919	-11138						660
6.5 Creedmoor	4316063	Scenar-L 8,8 g / 136 gr GB546	835	780	725	673	529	446	375				100	0	-122	-430	-2814	-6087	-11351						600
			3068	2674	2314	1990	1233	877	618					300	143	165	0	-1953	-4939	-9916					
	N316401	Naturalis 9,1 g / 140 gr N563	780	644	530								100	0	-194										600
.260 Rem.	4316065	Scenar-L 8,8 g / 136 gr GB546	814	759	705	653	513	432	363				100	0	-131	-459	-2991	-6471	-12078						510
			2915	2534	2188	1878	1157	821	579					300	153	175	0	-2073	-5247	-10547					
	4316033	FMJ 6,5 g / 100 gr S341	830	713	606	510							100	0	-194	-656									600
6.5x55 SE	4316035	Scenar 6,5 g / 100 gr GB504	800	730	664	601	433						100	0	-144	-509	-3504								740
			2080	1733	1433	1176	610							300	170	196	0	-2485							
	4316031	Scenar 7,0 g / 108 gr GB464	900	833	767	703	532	431	341				100	0	-101	-368	-2523	-5618	-10865						

CARTRIDGES - CENTERFIRE RIFLE

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J] Wind 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)																				
					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	767	705	647	487	397					100	0	-127	-452	-3039	-6744							740
			2687	2294	1941	1630	926	614						300	151	174	0	-2135	-5538						
	4316039	Scenar-L 7,8 g / 120 gr GB547	920	855	791	729	557	458	371				100	0	-95	-346	-2359	-5217	-9974						740
	4316032	Scenar 8,0 g / 123 gr GB489	830	773	717	663	516	429	350				100	0	-124	-438	-2880	-6271	-11822						740
	4316036	Scenar 8,0 g / 123 gr GB489	920	860	802	745	588	495	409				100	0	-92	-336	-2245	-4877	-9129						740
	4316040	Scenar-L 8,8 g / 136 gr GB546	815	760	706	654	514	433	363				100	0	-130	-458	-2982	-6453	-12042						740
	4316030	Scenar 9,0 g / 139 gr GB458	800	749	700	653	523	445	372				100	0	-134	-467	-2991	-6395	-11802						740
	N316102	Naturalis 9,1 g / 140 gr N563	800	664	546								100	0	-181										600
	4316021	Mega 10,1 g / 156 gr E471	780	704	633	566							100	0	-198	-640									740
	7x64	N317322	Naturalis 10,1 g / 156 gr N564	840	733	634	544						100	0	-144	-534									
7X65R	N317323	Naturalis 10,1 g / 156 gr N564	840	733	634	544						100	0	-144	-534										600
7.62x39	4317235	FMJ 8,0 g / 123 gr S405	715	610	511	422						100	0	-226	-831										420
.308 Win. (7.62x51)	4317527	FMJ 8,0 g / 123 gr S374	895	782	674	571							100	0	-121	-460									660
			3204	2444	1815	1302								300	153	185	0								
	4317498	Mega 9,7 g / 150 gr E469	850	759	675	595							100	0	-130	-476									660
	4317076	Scenar-L 10,0 g / 155 gr GB552	860	794	730	669	503	408	331				100	0	-115	-414	-2813	-6265	-12106						660
	4317515	Scenar 10,85 g / 167 gr GB422	820	754	690	628	459	364					100	0	-132	-470	-3212	-7258							660
	4317596	Lock Base 11,0 g / 170 gr B476	840	779	718	659	493	390	310				100	0	-122	-435	-2924	-6522	-12765						660
	43M7600 SEMI AUTO	Lock Base 11,0 g / 170 gr B476	744	684	626	570	411	321					100	0	-170	-589	-3951	-8683							400
	N317105	Naturalis 11,0 g / 170 gr N558	800	717	639	566							100	0	-151	-543									660
	4317520	Scenar-L 11,3 g / 175 gr GB550	793	733	675	619	468	384	323				100	0	-143	-501	-3332	-7362	-14087						660
	4317523	Scenar 12,0 g / 185 gr GB432	755	697	640	585	438	356					100	0	-162	-563	-3735	-8288							660
4317189	Mega 12,0 g / 185 gr E415	765	677	595	519							100	0	-174	-627									660	
4317590	FMJBT 12,0 g / 185 gr D46	760	704	650	597	452	369					100	0	-157	-547	-3588	-7908							660	
4317340	Subsonic 13,0 g / 200 gr B416	325	309	296	284							100	0	-988	-3097									410 <sup>1)</sup>	
.30-06 Spring.	4317577	FMJ 8,0 g / 123 gr S374	895	782	674	571							100	0	-121	-460									600
			3204	2444	1815	1302								300	153	185	0								
	N317106	Naturalis 11,0 g / 170 gr N558	830	746	666	591							100	0	-137	-495									600
4317563	Mega 12,0 g / 185 gr E415	800	710	625	547							100	0	-155	-561										600
4317567	Mega 13,0 g / 200 gr E401	775	693	615	543							100	0	-165	-589										600

**CARTRIDGES - CENTERFIRE RIFLE**

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J]	Trajectory [mm]											Test barrel length [mm]						
				Wind drift [mm] (Sidewind 4 m/s)																	
				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)									
				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					
.300 Win Mag.	N317204	Naturalis 11,0 g / 170 gr N558	902	815	732	652	452				100	0	-108	-401	-2940		600				
			4475	3654	2945	2339	1123						300	134	159	0	-2139				
	4317312	Mega 12,0 g / 185 gr E415	830	736	649	568						100	0	-142	-518			600			
			4130	3251	2525	1934							163 GEE	40	-62	-398					
8x57 IRS	N318010	Naturalis 11,7 g / 180 gr N559	800	718	639	566						100	0	-151	-544			600			
			3744	3013	2388	1873							159 GEE	40	-72	-425					
	4318029	OT 7,8 g / 120 gr G573	940	811	693	586						100	0	-110	-427	-3661		600			
			3446	2565	1875	1339							300	142	174	0	-2807				
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	920	835	753	674	473					100	0	-100	-374	-2729		680			
			6348	5233	4251	3410	1678						300	125	149	0	-1982				
	4318017	Scenar 16,2 g / 250 gr GB488	905	856	808	762	631	551	477			100	0	-93	-336	-2164	-4570	-8274	-13721	-26585	680
			6634	5937	5294	4703	3225	2457	1840	1353	874		300	112	131	0	-1493	-3674	-7155	-12377	-24904
8x57 IS	N318009	Naturalis 11,7 g / 180 gr N559	820	737	657	514						100	0	-141	-510			600			
			3934	3177	2527	1985							178 GEE	39	-32	-309	-3424				
	4318033	Lock Base 16,2 g / 250 gr B408	900	850	800	751	611	525	444			100	0	-95	-343	-2231	-4753	-8711		680	
			6561	5846	5179	4563	3023	2230	1600	1035	1768		300	114	134	0	-1544	-3838	-7567		
9.3x62	4319012	OT 12,0 g / 185 gr G574	845	739	641	550						100	0	-141	-523	-4159		600			
			4284	3275	2462	1818							300	174	208	0	-3113				
	N319204	Naturalis 16,2 g / 250 gr N560	740	674	611	552						100	0	-176	-615			600			
			4436	3683	3027	2472							150 GEE	39	-98	-498					

<sup>1)</sup> NOTE: Required twist is 1 turn in 250 mm or faster. Maximum barrel length 450 mm.

**TACTICAL CARTRIDGES**

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J]	Trajectory [mm]											Test barrel length [mm]			
				Crosswind drift [mm] (Sidewind 4 m/s)														
				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)						
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		
.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		
	4317598	Armour Piercing 10,7 g / 165 gr AP492	860	790	722	593	478	373				100	0	-118	-424	-2936	-6673	660
			3957	3339	2786	1883	1221	743					300	141	165	0	-2088	-5541
	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
	4317596	Lock Base 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
	43M7600 SEMI-AUTO	Lock Base 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
	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
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	
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			
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	
4317340	Subsonic 13,0 g / 200 gr B416	325	309	296	284						100	0	-988	-3097			410 <sup>1)</sup>	
		687	620	568	524							300	1033	1077	0			

AP and API ammunition are available for military and law enforcement use only.

**TACTICAL CARTRIDGES**

Caliber	Product no.	Bullet name Weight Code	Velocity [m/s] Energy [J]	Trajectory [mm]											Test barrel length [mm]								
				Crosswind drift [mm] (Sidewind 4 m/s)																			
				0 m	100 m	200 m	300 m	600 m	800 m	1000 m	1200 m	1500 m	Rifle sighted in at [m]	Impact point above or below line of sight (Scope 40 mm above bore line)									
.338 Lapua Mag.	N318020	Naturalis 15,0 g / 231 gr N508	920	835	753	674	473							100	0	-100	-374	-2729					680
			6348	5233	4251	3410	1678							300	125	149	0	-1982					
	4318017	Scenar 16,2 g / 250 gr GB488	905	856	808	762	631	551	477	409	328			100	0	-93	-336	-2164	-4570	-8274	-13721	-26585	680
			6634	5937	5294	4703	3225	2457	1840	1353	874			300	112	131	0	-1493	-3674	-7155	-12377	-24904	
8x57 IRS	N318010	Naturalis 11,7 g / 180 gr N559	800	718	639	566								100	0	-151	-544						680
			3744	3013	2388	1873								159 GEE	40	-72	-425						
	4318033	Lock Base 16,2 g / 250 gr B408	900	850	800	751	611	525	444	372	310			100	0	-95	-343	-2231	-4753	-8711	-14679	-29281	680
			6561	5846	5179	4563	3023	2230	1600	1118	778			300	114	134	0	-1544	-3838	-7567	-13305	-27561	
8x57 IS	N318009	Naturalis 11,7 g / 180 gr N559	820	737	657	514								100	0	-141	-510						680
			3934	3177	2527	1985								178 GEE	39	-32	-309	-3424					
	4318048	Armour Piercing Incendiary 16,4 g / 253 gr API526	895	838	782	727	574	481	396	331	288			100	0	-100	-361	-2386	-5172	-9679	-16714	-34161	680
			6568	5757	5014	4338	2699	1896	1288	900	682			300	120	140	0	-1665	-4210	-8476	-15271	-32354	
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	920	835	753	674	473							100	0	-100	-374	-2729					680
			6348	5233	4251	3410	1678							300	125	149	0	-1982					
	4318013	Scenar 19,4 g / 300 gr GB528	830	789	750	712	605	539	478	422	349			100	0	-117	-407	-2524	-5231	-9289	-15073	-28084	680
			6682	6038	5465	4917	3550	2818	2216	1727	1181			300	136	155	0	-1710	-4146	-7932	-13444	-26046	
9.3x62	4319012	OT 12,0 g / 185 gr G574	845	739	641	550								100	0	-141	-523	-4159					600
			4284	3275	2462	1818								300	174	208	0	-3113					
	N319204	Naturalis 16,2 g / 250 gr N560	740	674	611	552								100	0	-176	-615						600
			4436	3683	3027	2472								150 GEE	39	-98	-498						

AP and API ammunition are available for military and law enforcement use only.

**CARTRIDGES - CENTERFIRE HANDGUN**

Caliber	Product No.	Bullet type Weight Code	Velocity [m/s] Energy [J]	Trajectory [mm]				Weapon sighted in at	Impact point above or below line of sight			Test barrel length [mm]
				Wind drift [mm] (Sidewind 4 m/s)					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		
	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		

**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]	Trajectory [mm]				Weapon sighted in at [m]	Impact point above or below line of sight			Test barrel length [mm]
			Wind drift [mm] (Sidewind 4 m/s)					Sights 40 mm above bore line			
			0 m	2,5 m	10 m	50 m		100 m	10 m	50 m	

CARTRIDGES - CENTERFIRE RIFLE

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)								100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd		
			0 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	2525	2190	1882				100	0	-4	-15				24	
			1028	786	592	437				184 PBR	2	-1	-10					
	4315030	SP 3,6 g / 55 gr E539	2887	2383	1954	1599				100	0	-5	-18				24	
			1028	701	471	315			300	6	8	0						
			0	2	7	17			175 PBR	1,6	-1	-14						
	N315025	Naturalis 3,2 g / 50 gr N566	3166	2676	2230	1845			100	0	-3	-14				24		
			1099	785	545	373			198 PBR	1,5	0	-9						
			0	1,3	5,8	14,3												
.223 Rem.	4315042	FMJ 3,6 g / 55 gr S569	3133	2751	2399	2074	1289			100	0	-3	-12	-101			26	
			1211	933	710	531	205	56			300	4	5	0	-77			
				0	1	5	11			198 PBR	1	0	-8	-93				
		N315026	Naturalis 3,2 g / 50 gr N566	3330	2833	2369	1964			100	0	-3	-12					
				1216	880	615	423			202 PBR	1	0	-8					
				0	1	5	13											
	4315011	Scenar 4,5 g / 69 gr GB541	2789	2525	2277	2044	1430		100	0	-4	-14	-105			20		
			1199	983	800	644	315		300	5	6	0	-76					
			0	1	4	8	39		600	18	31	38	0					
	4315015	Scenar-L 4,5 g / 69 gr GB544	2723	2463	2219	1990	1385		100	0	-4	-15	-112			20		
			1143	935	759	611	296		300	5	6	0	-81					
			0	1	4	9	41		600	19	33	41	0					
.243 Win.	4316052	FMJ 5,8 g / 90 gr S561	2905	2637	2384	2146	1522			100	0	-3	-13	-95			24	
			1677	1382	1130	915	460	37			300	4	5	0	-69			
				0	1	3	8			192 PBR	1,5	0	-8	-81				
	N316201	Naturalis 5,8 g / 90 gr N509	2985	2582	2213				100	0	-4					24		
			1780	1332	978				183 PBR	1,4	-1							
			0	1	5													
	4316056	SP 6,5 g / 100 gr E562	2985	2724	2479	2246			100	0	-3	-12				24		
			1984	1653	1368	1123			300	4	5	0						
			0	1	3	7			194 PBR	1,4	0	-8						
6 mm BR Norma	4316044	Scenar-L 5,8 g / 90 gr GB543	2950	2733	2525	2325	1772			100	0	-3	-12	-81			26	
			1729	1485	1267	1074	624	27			300	4	5	0	-58			
				0	1	2	6	27		600	13	24	29	0				
	4316046	Scenar 6,8 g / 105 gr GB478	2790	2598	2411	2232	1748	1472	1232	100	0	-4	-13	-88	-193	-362	26	
			1813	1572	1355	1161	712	505	354	300	4	5	0	-62	-158	-319		
			0	1	2	6	26	50	84	600	15	26	31	0	-75	-215		
	4316047	Scenar-L 6,8 g / 105 gr GB542	2674	2485	2303	2128	1661	1396	1169	100	0	-4	-15	-98	-215	-403	26	
			1666	1439	1236	1055	643	454	319	300	5	6	0	-69	-175	-354		
			0	1	3	6	27	53	89	600	16	29	34	0	-83	-239		
6.5x47 Lapua	4316017	Scenar-L 7,8 g / 120 gr GB547	2772	2582	2395	2215	1720	1433		100	0	-4	-13	-90	-198		26	
			2053	1781	1533	1311	790	549			300	4	5	0	-64	-163		
				0	1	2	6	26	51	600	15	26	32	0	-78			
		4316011	Scenar 8,0 g / 123 gr GB489	2790	2616	2446	2281	1826	1553	1301	100	0	-3	-13	-85	-183	-339	26
				2134	1876	1640	1426	914	661	464	300	4	5	0	-59	-149	-297	
				0	1	2	5	23	44	75	600	14	25	30	0	-70	-198	
	4316016	Scenar-L 8,8 g / 136 gr GB546	2625	2461	2300	2145	1720	1472	1284	100	0	-4	-15	-97	-209	-385	26	
			2077	1825	1595	1387	892	653	497	300	5	6	0	-68	-169	-336		
			0	1	2	5	24	46	76	600	16	28	34	0	-79	-223		
	4316012	Scenar 9,0 g / 139 gr GB458	2690	2537	2387	2242	1839	1594	1366	100	0	-4	-14	-88	-188	-342	26	
			2231	1985	1757	1550	1043	784	576	300	5	5	0	-61	-151	-297		
			0	0	2	5	21	40	67	600	15	26	31	0	-70	-195		
	N316301	Naturalis 9,1 g / 140 gr N563	2648	2230	1848					100	0	-5,5					26	
			1886	1550	1064					165 PBR	1,6	-2,4						
			0	2	4													
6.5 Creedmoor	4316060	Scenar 8,0 g / 123 gr GB489	2790	2616	2446	2281	1826	1553	1301	100	0	-3	-13	-85	-183	-339	24	
			2134	1876	1640	1426	914	661	464	300	4	5	0	-59	-149	-297		
				0	1	2	5	23	44	75	600	14	25	30	0	-70	-198	
		4316063	Scenar-L 8,8 g / 136 gr GB546	2740	2573	2409	2250	1812	1554	1326	100	0	-4	-13	-88	-189	-348	24
			2263	1996	1750	1527	990	728	530	300	4	5	0	-61	-153	-303		
			0	1	3	6	26	50	85	600	15	26	31	0	-71	-201		
	N316401	Naturalis 9,1 g / 140 gr N563	2559	2150	798					100	0	-6					24	
			2042	1441	1008					160 PBR	1,6	-3						
			0	2	4													
	4316064	Mega 10,1 g / 156 gr E471	2560	2332	2116	1912				100	0	-5	-17				24	
			2254	1871	1540	1257				171 PBR	1,6	-2	-13					
			0	1	4	8												
.260 Rem.	4316065	Scenar-L 8,8 g / 136 gr GB546	2671	2505	2343	2186	1756	1504	1283	100	0	-4,0	-14	-94	-201	-370	24	
			2150	1892	1655	1441	930	682	496	300	4,8	5,6	0	-65	-163	-322		
			0	1	3	8	36	69	117	600	16	27	33	0	-76	-214		
6.5x55 SE	4316033	FMJ 6,5 g / 100 gr S341	2725	2374	2049	1752				100	0	-5	-17				29	
			1649	1251	932	682				300	6	7	0					
				0	1	5	13			174 PBR	1,6	-2	-13					
	4316035	Scenar 6,5 g / 100 gr GB504	2620	2411	2211	2021	1506			100	0	-4	-16	-109			29	
			1529	1294	1088	909	505			300	5	6	0	-77				
			0	1	3	7	33			600	18	32	39	0				
	4316031	Scenar 7,0 g / 108 gr GB464	2950	2748	2550	2358	1832	1521	1238	100	0	-3	-11	-78	-173	-328	29	
			2087	1811	1560	1333	805	555	367	300	4	5	0	-56	-142	-290		
			0	1	2	5	25	48	83	600	13	23	28	0	-68	-197		

CARTRIDGES - CENTERFIRE RIFLE

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)								100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd		
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd									
6.5x55 SE (cont.)	4316038	Scenar-L 7,8 g / 120 gr GB547	2723	2534	2348	2170	1681	1399			100	0	-4	-14	-94	-207		29
			1981	1715	1474	1258	755	523			300	5	5	0	-66	-170		
			0	1	3	6	27	53			600	16	28	33	0	-81		
		4316039	Scenar-L 7,8 g / 120 gr GB547	3018	2822	2631	2443	1919	1609	1335	100	0	-3	-11	-73	-160	-302	29
				2434	2128	1849	1595	984	692	476	300	4	4	0	-52	-132	-267	
				0	1	2	5	23	44	76	600	12	22	26	0	-63	-180	
		4316032	Scenar 8,0 g / 123 gr GB489	2720	2548	2379	2217	1769	1501	1253	100	0	-4	-14	-90	-194	-361	29
				2028	1779	1551	1347	858	617	430	300	5	5	0	-63	-158	-316	
				0	1	2	5	24	46	79	600	15	26	31	0	-63	-211	
	4316036	Scenar 8,0 g / 123 gr GB489	3015	2836	2661	2490	2010	1722	1457	100	0	-3	-10	-70	-151	-280	29	
			2492	2204	1941	1699	1108	813	582	300	3	4	0	-49	-124	-245		

CARTRIDGES - CENTERFIRE RIFLE

Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [in]										Test barrel length [in]					
			Energy [ft.-lbs.]		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	Rifle sighted in at [yd]	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd				
.300 Win Mag.	N317204	Naturalis 11,0 g / 170 gr N558	2959	2698	2447	2205	1579			100	0	-3,2	-12	-90			24			
			3300	2744	2256	1833	940			300	4,1	5,0	0	-65						
			0	1	4	8	40			195 PBR	1,5	-0,2	-7,8	-81						
.	4317312	Mega 12,0 g / 185 gr E415	2723	2441	2177	1929			100	0	-4,3	-16				24				
			3046	2744	2256	1833			300	1,6	-1,2	-11								
			0	1	5	11			178 PBR	1,6	-1,2	-11								
.	4317308	Scenar 12,0 g / 185 gr GB432	2953	2765	2581	2403	1897	1595	1327	100	0	-3,0	-11	-76	-166	-311	27			
			3585	3142	2739	2375	1479	1047	724	39	300	3,7	4,5	0	-54	-136	-274			
			0	1	4	9	39	77	135		600	13	22	27	0	-64	-184			
8x57 IRS	N318010	Naturalis 11,7 g / 180 gr N559	2625	2378	2140	1916			100	0	-3,5	-14				24				
			2762	2266	1835	1471			300	4,6	5,7	0								
8x57 IS	4318029	OT 7,8 g / 120 gr G573	3084	2695	2339	2010			100	0	-3,2	-13				24				
			2542	1941	1461	1079			300	4,3	5,4	0								
			0	1	6	15			194 PBR	1,5	-0,3	-8,4								
.	N318009	Naturalis 11,7 g / 180 gr N559	2690	2440	2200	1972			100	0	-141	-510				24				
			2901	2387	1939	1559			300	4,0	-61	-390								
			0	1	4	16			163 GEE	4,0	-61	-390								
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	3018	2764	2515	2276	1651			100	0	-3	-11	-83		27				
			4681	3925	3251	2663	1401			300	4	5	0	-61						
			0	1	3	7	32			200 PBR	1	0	-7	-75						
			.	4318017	Scenar 16,2 g / 250 gr GB488	2970	2823	2680	2539	2141	1896	1666	100	0	-3	-10	-68	-143	-258	27
						4896	4424	3985	3579	2545	1994	1540	30	300	3	4	0	-47	-116	-223
						0	0	2	4	16	30	50	600	11	20	24	0	-52	-143	
.	4318033	Lock Base 16,2 g / 250 gr B408	2953	2802	2652	2504	2080	1816	1568	100	0	-3	-11	-70	-148	-268	27			
			4896	4356	3902	3479	2401	1831	1365	30	300	4	4	0	-49	-120	-233			
			0	0	2	4	17	33	55	600	12	20	24	0	-55	-152				
.	4318013	Scenar 19,4 g / 300 gr GB528	2690	2569	2451	2337	2015	1816	1629	100	0	-4	-13	-82	-170	-300	27			
			4821	1395	4001	3638	2704	2196	1767	30	300	4	5	0	-56	-135	-257			
			0	0	2	4	15	28	46	600	14	24	28	0	-60	-163				
.	43M8011	Lock Base 19,4 g / 300 gr B557	2690	2573	2457	2343	2017	1812	1616	100	0	-4	-13	-82	-170	-300	27			
			4811	4399	4012	3650	2704	2181	1736	30	300	4	5	0	-56	-135	-256			
			0	0	2	4	16	30	50	600	14	24	28	0	-60	-163				
9.3x62	4319012	OT 12,0 g / 185 gr G574	2772	2453	2155	1879			100	0	-4,2	-16				24				
			3160	2473	1909	1452			300	5,3	6,4	0								
			0	1	5	12			179 PBR	1,6	-1,1	-11								
.	N319204	Naturalis 16,2 g / 250 gr N560	2428	2230	2040	1861			100	0	-5	-19				24				
			3272	2761	2310	1922			300	1,6	-2	-14								
			0	1	3	8			164 PBR	1,6	-2	-14								
.	4319010	Mega 18,5 g / 285 gr E433	2265	2029	1809	1606			100	0	-7	-24				24				
			3246	2606	2071	1632			300	1,6	-4	-20								
			0	1	5	11			153 PBR	1,6	-4	-20								

NOTE: Required twist is 1 turn in 10" or faster. Maximum barrel length 18".

TACTICAL CARTRIDGES

Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [Inch]										Test barrel length [inch]			
			Energy [ft.-lbs.]		Impact point above or below line of sight (Scope 1.6 in above bore line)													
			Crosswind drift [in] (Sidewind 13 fps)															
			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	68	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	89	300	4	5	0	-62	-158	-323	
			0	1	2	6	26	52	89	600	15	26	31	0	-76	-220		
	.	4317598	Armour Piercing 10,7 g / 165 gr AP492	2820	2610	2404	2205	1660	1336		100	0	-4	-13	-91	-203	-380	26
				2915	2497	2119	1782	1010	654	492	89	300	4	5	0	-65	-168	-352
				0	1	3	7	34	69	600	15	27	32	0	-82	-244		
	.	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	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	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 <sup>1)</sup>		
			506	461	425	394			300	33	35	0						
			0	1	4	9			600									

AP and API ammunition are available for military and law enforcement use only.

TACTICAL CARTRIDGES

Caliber	Product no.	Bullet name Weight Code	Velocity [fps]		Trajectory [inch]										Test barrel length [inch]							
			Energy [ft.-lbs.]		Impact point above or below line of sight (Scope 1.6 in. above bore line)																	
			Crosswind drift [in] (Sidewind 9 mph)																			
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd	Rifle sighted in at [yd]	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	1200 yd	1500 yd		
.338 Lapua Mag.	N318020	Naturalis 15,0 g / 231 gr N508	3018	2764	2515	2276	1651						100	0	-3	-11	-83					27
			4681	3925	3251	2663	1401						300	4	5	0	-61					
			0	1	3	7	32						600	1	0	-7	-75					
	.	4318017	Scenar 16,2 g / 250 gr GB488	2970	2823	2680	2539	2141	1896	1666	1453	1171	100	0	-3	-10	-68	-143	-258	-420	-797	27
				4896																		

## COMPONENTS - CENTERFIRE RIFLE

CALIBER	BRASS CASES		BULLETS											
	Product No.	Designation	Product No.	Bullet name	Product code	Type	Bullet diameter		Weight		Ballistic coefficient	Ballistic coefficient		
							mm	in	g	grs			BC G1	BC G7
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 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		•	
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	•	
	4PH7068	.30-06 Springfield	4 PL/HL 7086	Lock Base	B476	FMJBT	7.83	.308	11.00	170	0.498	0.249	•	
				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	•
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	•	
			4 PL/HL 8011	Lock Base	B557	FMJBT	8.60	.338	19.44	300	0.765	0.383	•	
				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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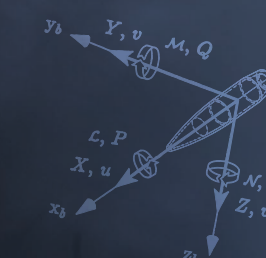
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**Nammo Lapua Oy**  
P.O. Box 5  
FI-62101 Lapua  
Finland  
Phone +358 10 5233 800  
info@lapua.com  
lapua.com

**Nammo Schönebeck GmbH**  
W.-Dümling-Straße 12  
DE-39218 Schönebeck (Elbe)  
Germany  
Phone +49 3928 729 100  
RimfireTestRange@nammo.com  
lapua.com