

Joint Stock Company **Giraitės Ginkluotės Gamykla (GGG)** is a state-owned company located in Lithuania, Kaunas region. The main activity is military and civil production for governmental agencies, law enforcement and armed forces as well as for hunting, target and sniper shooting.

Military ammunition production:

Cal. 7.62 x 51 mm NATO Ball certified cartridges

Cal. 5.56 x 45 mm NATO Ball certified cartridges

Civil ammunition production:

Cal. .308 Win cartridges

Cal. .223 Rem cartridges

Cartridge components production:

Cases

Bullets

Cups

Steel and lead cores

GGG participates in the **NSPA'S** (NATO Support and Procurement Agency) tenders. The company's products are sold in NATO, EU and non-EU countries.

GGG Memberships:

AFEMS (The Association of European Manufactures of Sporting Ammunition)

LDSIA (Lithuanian Defence and Security Industry Association)

GGG

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GGG .223 Rem
GGG .308 Win



GGG

GIRAITĖS GINKLUOTĖS GAMYKLA
PASSION. PERFORMANCE. PRECISION.



.223 Rem and .308 Win

are tested caliber designs, which have been developed to satisfy the constantly increasing needs of professionals and enthusiasts in hunting, target and sniper shooting.

These cartridges are manufactured following the same strict quality control requirements, which are applied to military ammunition.

HPBT (Hollow point Boat Tail) – Bullet with slower (controlled) expansion, has a tip in its pit. For the wide range of performance HPBT bullets are available in different calibers and weights. Best for precision and tactical shooting.

SBT (Soft (point) Boat Tail) – Bullet with a faster expansion, where some of the lead core is protruding from the front of the bullet for better expand, deform and cause a good amount of damage when impact occurs. A good choice for hunting.

FMJ (Full Metal Jacket) – Non expanding bullet, the top of the projectile is covered by a copper jacket. Available in different calibers, appropriate to cartridges intended for sports, tactical shooting – to cause little amount of damage.

BT (Boat Tail) – monolithic spitzer bullet. Minimal damage due to increased penetration and excellent stopping power. Minimal bullet dimensions and weight variation. Best choice for big game hunting.



.223 Rem cartridge design



.308 Win cartridge design

GGG .223 Rem and GGG .308 Win alternative cartridge packing options



The cartridges .223 Rem and .308 Win comply with C.I.P (Permanent International Commission for the Proof of Small-Arms) requirements.

GGG cal. .223 Rem cartridges



Ballistic Data																			
Bullet type .223 Rem	Ballistic coefficient	Energy, (J)						Velocity, (m/s)						Bullet path, (cm)					
								meters											
		0	100	200	300	400	500	0	100	200	300	400	500	0	100	200	300	400	500
GGG FMJ 55 gr (3,56 g)	0.272	1835	1410	1075	800	585	425	1015	890	775	670	575	485	-	0	-12	-41	-92	-173
Sierra HPBT 69 gr (4,47 g)	0.301	1810	1420	1100	845	640	480	900	795	700	615	535	465	-	0	-16	-51	-113	-210
Sierra HPBT 77 gr (4,99 g)	0.362	1825	1485	1200	960	760	590	855	770	695	620	550	485	-	0	-15	-50	-110	-205

GGG cal. .308 Win cartridges



BALLISTIC DATA																						
Bullet type .308 Win	Ballistic coefficient	Energy, (J)						Velocity, (m/s)						Bullet path, (cm)								
								meters														
		0	100	200	300	400	500	0	100	200	300	400	500	0	100	200	300	400	500			
GGG FMJ 147 gr (9,55 g)	0.401	3375	2795	2295	1870	1510	1205	842	765	695	625	565	505	-	0	-17	-54	-116	-210			
Sierra HPBT 155 gr (10,04 g)	0.450	3715	3145	2640	2200	1820	1495	860	790	725	660	600	545	-	0	-16	-50	-107	-191			
Sierra HPBT 168 gr (10,89 g)	0.462	3525	2975	2485	2055	1675	1355	805	740	675	615	555	500	-	0	-18	-58	-123	-221			
Sierra HPBT 175 gr (11,34 g)	0.496	3720	3185	2715	2300	1935	1620	810	750	690	640	585	535	-	0	-17	-55	-118	-209			
Sierra HPBT 180 gr (11,66 g)	0.496	3590	3070	2610	2205	1850	1545	785	725	670	615	565	515	-	0	-19	-59	-126	-224			
Sierra HPBT 190 gr (12,31 g)	0.533	3745	3235	2785	2380	2020	1705	780	725	670	620	575	525	-	0	-19	-59	-125	-221			
Sierra SBT 165 gr (10,69 g)	0.404	3465	2860	2350	1915	1545	1240	805	730	660	560	540	480	-	0	-18	-60	-127	-230			
Sierra SBT 180 gr (11,66 g)	0.506	3550	3040	2595	2200	1855	1555	780	720	665	615	565	515	-	0	-19	-60	-127	-225			
Bullet type .308 Win	Ballistic coefficient	Energy, (J)						Velocity, (m/s)						Bullet path, (cm)								
								meters														
		0	50	100	150	200	250	300	0	50	100	150	200	250	300	0	50	100	150	200	250	300
TARVAS BT 165 gr (10,70 g)	0.301	3640	3220	2840	2500	2195	1925	1680	825	775	730	680	640	600	560	-	2	0	-7	-19	-36	-61



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