

223 REMINGTON (Bolt Gun)

Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-12" and 1-8"

Components:

Case: Winchester

Trim-to Length: 1.750"

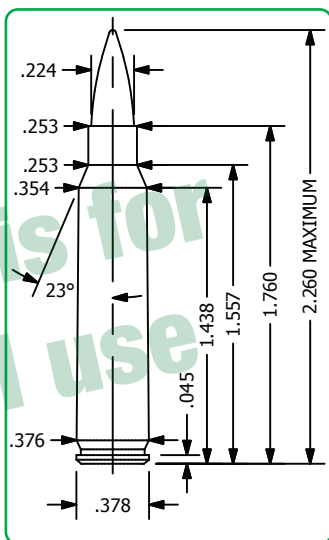
Primer: WSR

Remarks:

Originally designed for use in the military's AR 15/M16 Service Rifle, the 223 Remington has become one of our most popular civilian cartridges. And for good reason. It is accurate, flatshooting and has a dizzying array of suitable bullets available for the cartridge's every task. Brass is readily available at bargain prices—always a strong incentive for the handloader. All things considered, it makes an outstanding varmint round. With all this going for it, it comes as no surprise that virtually all major manufacturers offer their respective bolt action designs in the 223 Remington.

The bolt action design affords the handloader a bit more latitude in powder selection than a gas operated system. Despite this, most of the powders used in the semi autos are also some of the best choices for use in a bolt rifle. Hodgdon's H322, H335 and Varget are all excellent choices, as are Winchester's 748 and Alliant's Reloder 7 and 15. Since they generally use barrels that are somewhat longer than those commonly found on semi autos, the bolt actions tend to offer improved velocities. This effectively increases the useful range of the cartridge without resorting to higher pressures. In the varmint fields, a 250 300 yard shot is not unusual for the 223, and we've had reports of hits at twice that range. Freed of the constraints imposed by port pressure limitations, reduced loads for plinking and short range practice are entirely viable. With some of the heavier bullets, such as the Sierra 63 grain Semi Point, the cartridge has proven effective on small deer. In short, it is a tremendously versatile cartridge.

Unlike most of the currently available semi autos, factory bolt actions generally come equipped with 1x12" twist barrels. As such, they can handle Sierra's line of bullets from 40 to 60 or 63 grains, but not the heavier MatchKing designs. This isn't a problem in custom built rifles, if the shooter chooses a twist rate appropriate for the bullets used. With this cartridge, we recommend a 1x10" as minimum for the 60 grain MatchKing, and a 1x8" for 77 or 80 grain MatchKings.



223 REMINGTON (BOLT GUN)

Bullet Caliber Weight Type					C.O.A.L.			
	#1200	.224"	40gr.	Hornet	2.130"			
	#1385	.224"	40gr.	HP	2.170"			
	#1440	.224"	40gr.	BlitzKing	2.260"			
Powder ▾	Velocity >	3100	3200	3300	3400	3500	3600	3700
RE 7		19.2	19.9	20.6	21.3	22.0	22.8	
IMR 4198					20.9	22.1	22.9	23.4
H322			22.3	23.2	24.0	24.7	25.4	
A 2015		22.2	22.8	23.4	24.0	24.7		
RE 10x			21.1	22.2	23.2	24.0	24.6	
N130				20.9	21.9	22.7	23.4	
Benchmark				24.3	25.1	25.8	26.5	27.0
H335		23.0	23.7	24.5	25.3	26.1	27.0	
IMR 8208 XBR		23.8	24.4	25.0	25.6	26.3	26.9	
TAC		23.2	23.9	24.5	25.2	26.0	26.8	27.6
A 2230			23.2	24.3	25.3	26.1	26.8	
Exterminator			23.2	24.0	24.8	25.6	26.4	27.2
Power Pro Varmint		22.9	23.8	24.7	25.5	26.3	27.1	27.9
Varget		25.1	25.6	26.1	26.6			
AR Comp				23.6	24.3	25.0	25.7	
Energy Ft. Lbs		853	909	967	1027	1088	1151	1216
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	Benchmark	27.0		3700		1216		
Hunting Load	IMR 4198	23.4		3700		1216		

223 REMINGTON (BOLT GUN)

		Bullet	Caliber	Weight	Type	C.O.A.L.		
		#1210	.224"	45gr.	Hornet	2.125"		
		#1310	.224"	45gr.	SPT	2.220"		
Powder ▾	Velocity >	3000	3100	3200	3300	3400	3500	3600
RE 7		19.0	19.6	20.3	21.1	21.9		
IMR 4198		18.8	19.4	20.1	20.9	21.6	22.4	
H322		21.5	22.1	22.8	23.4	24.2	24.9	
A 2015		22.0	22.9	23.8	24.4	24.9		
RE 10x			21.6	22.4	23.2	24.0	24.8	
N130		19.4	20.2	21.0	21.8	22.5		
Benchmark			23.1	24.2	25.1	25.9	26.6	
H335			23.2	24.2	25.1	25.9		
IMR 8208 XBR		23.8	24.3	24.9	25.5	26.0	26.6	
TAC			23.6	24.5	25.3	26.2	27.1	
A 2230		23.0	23.6	24.3	25.0	25.7	26.5	
Exterminator				23.5	24.5	25.5	26.4	
Power Pro Varmint		23.6	24.2	24.9	25.7	26.4	27.3	28.1
Varget		24.4	25.0	25.7	26.3	26.9		
AR Comp		22.3	22.9	23.5	24.2	24.9	25.7	
Energy Ft. Lbs		899	960	1023	1088	1155	1224	1295
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	H335	25.9		3400		1155		
Hunting Load	Power Pro Varmint	28.1		3600		1295		

223 REMINGTON (BOLT Gun)

Bullet		Caliber	Weight	Type	C.O.A.L.			
	#1320	.224"	50gr.	SMP	2.170"			
	#1330	.224"	50gr.	SPT	2.220"			
	#1340	.224"	50gr.	Blitz	2.210"			
	#1450	.224"	50gr.	BlitzKing	2.250"			
Powder ▾	Velocity >	2800	2900	3000	3100	3200	3300	3400
IMR 4198			18.5	19.3	20.0	20.8	21.5	
H322		21.0	21.7	22.3	22.9	23.5	24.1	
A 2015		20.8	21.7	22.5	23.2	23.8	24.3	
RE 10x				20.9	21.8	22.6	23.3	
N130		18.5	19.2	20.0	20.8	21.6	22.4	
Benchmark		21.6	22.3	23.1	23.7	24.4	25.0	
H335			22.4	23.0	23.7	24.4	25.1	
IMR 8208 XBR		22.0	22.8	23.5	24.2	24.9	25.5	26.1
TAC				23.2	24.0	24.8	25.7	26.5
H4895		22.1	23.0	23.8	24.4	25.0	25.5	25.9
A 2230			22.1	22.9	23.6	24.4	25.1	25.8
Exterminator				22.6	23.4	24.2	25.0	25.9
Power Pro Varmint				23.3	24.0	24.9	25.7	26.5
AR Comp				22.1	22.5	23.0	23.7	24.6
Energy Ft. Lbs		870	934	999	1067	1137	1209	1283
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	TAC	26.5		3400		1283		
Hunting Load	IMR 8208 XBR	26.1		3400		1283		

223 REMINGTON (Bolt Gun)

Bullet	Caliber	Weight	Type	C.O.A.L.
	#1410	.224"	52gr. HPBT Match	2.210"
	#1400	.224"	53gr. HP Match	2.210"
	#1345	.224"	55gr. Blitz	2.230"
	#1350	.224"	55gr. SMP	2.200"
	#1355	.224"	55gr. FMJBT	2.230"
	#1360	.224"	55gr. SPT	2.250"
	#1365	.224"	55gr. SBT	2.250"
	#1390	.224"	55gr. HPBT	2.200"
	#1455	.224"	55gr. BlitzKing	2.260"*

*55 grain BlitzKing requires a 1x12" or faster twist

Powder ▾	Velocity >	2700	2800	2900	3000	3100	3200	3300
LT-32				20.7	21.6	22.4		
RE 10x				20.6	21.4	22.2	23.0	
N133					22.4	23.0		
Benchmark			21.6	22.4	23.2	23.8	24.4	
H335	21.1	21.7	22.4	23.1	24.0			
IMR 8208 XBR	21.6	22.3	23.1	23.7	24.4	25.1		
TAC				23.6	24.5	25.3		
H4895	21.3	21.9	22.5	23.2	23.9	24.6		
IMR 4166 End.	21.7	22.4	23.0	23.7	24.5			
A 2230			22.7	23.5	24.3	25.1		
Power Pro Varmint		22.3	23.5	24.5	25.3	25.9	26.3	
RE 15			23.4	24.0	24.7	25.4		
Win 748			23.7	24.4	25.3	26.1		
CFE 223				25.6	26.3	27.0	27.6	
AR Comp		20.3	21.0	21.8	22.5	23.3		
Energy Ft. Lbs		842	905	971	1039	1109	1182	1257

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	AR Comp	23.3	3200	1182
Hunting Load	Power Pro Varmint	26.3	3300	1257

Sierra does not recommend MatchKing bullets for hunting applications.

223 REMINGTON (Bolt Gun)

Bullet Caliber Weight Type					C.O.A.L.			
	#1375	.224"	60gr.	HP	2.230"			
	#7160	.224"	60gr.	TMK	2.260"*			
	#1370	.224"	63gr.	SMP	2.200"			
*60 grain TMK requires a 1x10" or faster twist								
Powder ▾	Velocity >	2550	2650	2750	2850	2950	3050	3100
Benchmark			20.0	20.9	21.7	22.6		
IMR 8208 XBR			20.2	21.1	22.0	22.9		
TAC				21.5	22.6	23.6		
H4895			20.2	21.0	21.9	22.7	23.6	
IMR 4895			20.8	21.7	22.6			
IMR 4166 End.	20.3	21.1	22.0	22.9				
Power Pro Varmint				21.7	22.9	23.9	24.8	25.3
RE 15					22.9	23.7		
Varget	20.2	21.0	21.9	22.7	23.6			
Win 748		21.8	22.8	23.7	24.6			
CFE 223		22.0	22.9	23.9	24.8	25.7	26.1	
AR Comp				19.2	20.1	21.2		
Energy Ft. Lbs		866	935	1007	1082	1159	1239	1280
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	IMR 8208 XBR	22.9		2950		1159		
Hunting Load	Power Pro Varmint	25.3		3100		1280		



223-55 SBT #1365
Hanna Westermier

223 REMINGTON (Bolt Gun)

Bullet Caliber Weight Type					C.O.A.L.			
	#1395	.224"	65gr.	SBT	2.240"*			
	#1380	.224"	69gr.	HPBT Match	2.260"*			
	#7169	.224"	69gr.	TMK Match	2.260"*			
*requires a 1x10" or faster twist								
Powder ▾	Velocity >	2400	2500	2600	2700	2800	2900	3000
Benchmark					20.6	21.6	22.5	
H335			20.6	21.5	22.4	23.2	23.9	
IMR 8208 XBR			20.4	21.2	22.0	22.7	23.4	
TAC			20.6	21.6	22.5	23.3	24.1	
H4895	19.5	20.2	20.9	21.7	22.4	23.2		
N135	18.4	19.1	20.0	20.8	21.7			
A 4064	20.5	21.2	22.0	22.9	23.8			
Power Pro Varmint				21.3	21.9	22.6	23.3	
A 2520				22.4	23.1	23.9	24.8	25.8
RE 15		21.2	21.8	22.5	23.3	24.2		
Varget		20.4	21.1	21.8	22.7	23.6		
Win 748	20.1	21.0	21.9	22.7	23.5	24.2		
CFE 223			22.1	23.0	23.9	24.8	25.7	
AR Comp	18.2	19.1	19.9	20.8	21.6			
Energy Ft. Lbs	831	902	975	1052	1131	1214	1299	
Special Load	Powder	Grains	Velocity fps		Energy Ft. lbs			
Accuracy Load	Varget	23.6	2900		1214			
Hunting Load	A 2520	25.8	3000		1299			
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223 REMINGTON (BOLT GUN)

Bullet Caliber Weight Type					C.O.A.L.			
	#9377	.224"	77gr.	HPBT Match	2.260"*			
	#9377G	.224"	77gr.	HPBT Match Cannelured	2.260"*			
	#7177	.224"	77gr.	TMK Match	2.260"*			
	#9390	.224"	80gr.	HPBT Match	2.430"*			
*requires a 1x8" or faster twist								
Powder ▾	Velocity >	2250	2350	2450	2550	2650	2750	2800
Benchmark			18.7	19.6	20.5	21.5		
IMR 8208 XBR			19.2	20.1	21.0	22.0		
TAC			19.7	20.6	21.6	22.6		
H4895			18.7	19.6	20.5	21.5		
A 4064			19.6	20.4	21.3	22.3		
Power Pro Varmint			19.1	20.4	21.4	22.2	22.8	
A 2520			20.3	21.2	22.1	23.0	23.8	
RE 15			19.7	20.5	21.4	22.3		
N140	19.3		20.2	21.1	22.0			
Varget			19.6	20.4	21.2	22.1		
Win 748			20.4	21.3	22.1	22.9		
CFE 223				21.4	22.4	23.4	24.2	24.6
Power Pro 2000 MR			21.1	21.9	22.8	23.7	24.6	25.1
AR Comp			18.6	19.6	20.5	21.3		
Energy Ft. Lbs		865	944	1026	1112	1200	1293	1340
Special Load	Powder	Grains	Velocity fps			Energy Ft. lbs		
Accuracy Load	N140	22.0	2550			1112		
Sierra does not recommend MatchKing bullets for hunting applications.								

223 REMINGTON (Bolt Gun)

Bullet Caliber Weight Type							C.O.A.L.	
	#9290	.224"	90gr.	HPBT Match			2.430"*	
*requires a 1x6.5" or faster twist		**requires a 1x7" twist @2650fps and faster						
Powder ▾	Velocity >	2100	2200	2300	2400	2500	2550	2600
TAC				19.7	20.8	21.8		
H4895			18.1	19.1	20.1			
A 4064	18.2	19.2	20.2	21.1				
Power Pro Varmint			18.5	19.8	20.9	21.8	22.3	
A 2520			19.5	20.5	21.4	22.4	22.8	
RE 15	18.2	19.2	20.2	21.1	22.0			
N140			19.4	20.4	21.3			
Varget			18.7	19.7	20.8	21.8		
CFE 223				20.8	21.8	22.8	23.2	
Power Pro 2000 MR			20.2	21.1	22.1	23.0	23.5	24.0
Big Game				22.3	23.3	24.4	24.9	
IMR 4451 End.			22.3	23.4	24.4	25.2		
RE 17			20.6	21.5	22.4	23.3	23.7	24.2
Energy Ft. Lbs		881	967	1057	1151	1249	1299	1351
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	Varget	21.8		2500		1249		
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223 REMINGTON (BOLT GUN)

Bullet Caliber Weight Type							C.O.A.L.	
	#1396	.224"	95gr.	HPBT Match	2.440"*			
*requires a 1x6.5" or faster twist								
Powder ▾	Velocity >	1950	2050	2150	2250	2350	2450	2500
TAC			17.6	18.8	19.9	20.9		
H4895	16.4	17.6	18.6	19.6				
A 2495			18.6	19.5				
IMR 4064		18.4	19.4	20.3				
Power Pro Varmint		17.9	19.0	20.0				
A 2520			19.5	20.4	21.4	22.3		
RE 15	17.3	18.3	19.2	20.1	21.0			
Varget	17.0	17.7	18.5	19.4				
CFE 223				20.9	21.9	22.8		
Power Pro 2000 MR			20.5	21.5	22.5	23.4	23.8	
Big Game				21.9	23.0	24.1		
N540		18.6	19.6	20.6				
RE 17			20.7	21.6	22.5	23.3		
Energy Ft. Lbs	802	886	975	1068	1165	1266	1318	
Special Load	Powder	Grains		Velocity fps		Energy Ft. lbs		
Accuracy Load	RE 17	23.3		2450		1266		
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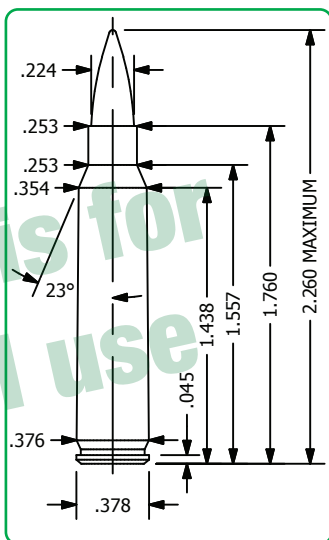
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223 Remington**55,000 PSI**

Bullet	Caliber	Weight	Type	C.O.A.L.
#4064	0.224	64 gr	TGK	2.190"

Powder	Velocity >	2725	2775	2875	2925	2975	3025	3100
Benchmark		21.0	21.5	22.5	23.1			
H 335		21.8	22.2	23.1	23.5			
IMR 8208xbr		21.6	22.0	22.8	23.2			
RS Tac			22.8	23.9	24.4	25.0	25.5	
IMR 4064		22.5	22.9	23.7	24.0			
A 2520		23.2	23.6	24.5	24.9	25.3	25.7	
SW Tac Rifle		21.3	21.8	22.7	23.1	23.6		
N 140		23.2	23.6	24.5				
Varget		22.9	23.3	24.2	24.4			
W 748		22.6	23.0	23.9	24.1			
Staball Match		22.7	23.2	24.1	24.5	24.9		
N 540		22.6	23.0	23.6				
SW Match		22.6	23.1	24.1	24.6	25.1	25.6	26.5
CFE 223			23.4	24.4	24.8	25.3	25.9	
PP 2000-mr		24.2	24.6	25.6	26.1	26.5		
Energy Ft. Lbs		1055	1094	1175	1216	1258	1300	1366

Special Load	Powder	Grains	Velocity fps	Energy Ft. Lbs
Accuracy Load	IMR 4064	23.6	2861	1163
Hunting Load	A 2520	25.1	2954	1240

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INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.