

284 WINCHESTER

Test Specifications:

Firearm Used: Savage Model 116

Barrel Length: 26"

Twist: 1 x 9"

Components:

Case: Winchester

Trim-to Length: 2.160"

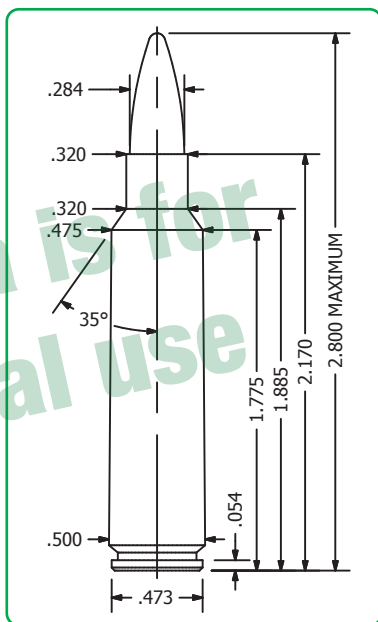
Primer: Rem 9 1/2

Remarks:


The 284 Winchester was the first U.S. rifle cartridge to be designed with a rebated rim. When major manufacturers take such an unorthodox approach in case design, it's a safe bet that there is a pretty good reason for it. With the 284, Winchester engineers wanted to squeeze 280 Remington performance out of their Model 88 lever action and Model 100 semi automatic rifles. Both of these rifles used a short action, limiting overall cartridge length to 2.800" or less. Since they couldn't gain capacity by using a longer case, they increased body diameter to nearly that of a typical belted magnum cartridge. Remington basically took the same approach in their 6.5mm and 350 Magnum cartridges, but opted to use a shortened version of the standard belted magnum case. Unfortunately, both the Model 88 and Model 100 have since fallen by the wayside, taking the 284 cartridge with them. In years past, Browning and Ultra Light Arms both offered some bolt action rifles for the 284.


The 284 can be reloaded with excellent results. This allows it to be treated as a conventional rimless case. Like the 6.5mm and 350 Remington Magnums, the overall length of the 284 is also a drawback. With some of the heavier bullets, seating depth limitations will cause the bullet to encroach on powder space. As a result, the 284 is at its best with bullets no heavier than 150-160 grains. This is simply the price to be paid for the ability to use the shorter, lighter action.

Today, the 284 Winchester holds the somewhat dubious distinction of having spawned several wildcat offspring, which are now more popular than the parent cartridge. This may not be that hard to understand. The 284 has approximately the same capacity as the 30-06, which means that the performance of any '06 based cartridge can be duplicated by the 284 case in a short action. Some of these, most notably the 6.5-284, have become quite popular. While the rebated rim was a novelty when the 284 was introduced, there has been a flurry of new cartridges with this feature, most notably the Remington Ultra Mag family. Sounds like it was a pretty good idea after all!





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Bullet Caliber Weight Type								C.O.A.L.
	#1895	.284"	100gr.	HP				2.800"
Powder	Velocity	3000	3100	3200	3300	3400	3500	
748		46.6	48.7	50.8	52.9			
IMR 4895		47.2	48.4	49.6	50.8			
Varget		48.3	49.6	50.9	52.2	53.5		
IMR 4064		47.7	48.9	50.1	51.3	52.5	53.7	
Viht N140		47.5	49.0	50.5	52.0	53.5		
RE 15		47.8	49.1	50.4	51.7	53.0		
A 4350		55.6	56.9	58.2	59.5			
IMR 4350		54.0	55.4	56.8	58.2	59.6	61.0	
Energy Ft. lbs		1998	2133	2273	2418	2566	2720	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR 4350	58.2	3300	2418				
Hunting Load	IMR 4350	59.6	3400	2566				



Bullet Caliber Weight Type							C.O.A.L.
	#1900	.284"	120gr.	SPT			2.800"
Powder	Velocity	2800	2900	3000	3100	3200	
IMR 4895		45.0	46.5	48.0	49.5	51.0	
Varget		45.9	47.3	48.7	50.1	51.5	
IMR 4064		45.8	47.2	48.6			
Viht N140		45.9	47.5	49.1			
A 4350		52.9	54.1	55.3			
IMR 4350		51.9	53.3	54.7	56.1	57.5	
RE 19		54.5	55.9	57.3			
H4831 SC		55.6	57.3	59.0			
Energy Ft. lbs		2089	2240	2398	2560	2728	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
Accuracy Load	A 4350	55.3	3000	2398			
Hunting Load	IMR 4350	56.1	3100	2560			

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Bullet		Caliber	Weight	Type	C.O.A.L.
	#1903	.284"	130gr.	HPBT MatchKing	2.800"
	#7250	.284"	130gr.	SPT SSP	2.800"

Powder	Velocity	2700	2800	2900	3000	3100
748		44.4	46.4	48.4		
IMR 4895		43.3	44.8	46.3	47.8	49.3
Varget		44.0	45.5	47.0	48.5	50.0
IMR 4064		43.7	45.1	46.5		
Viht N140		43.7	45.5	47.3		
A 4350		50.8	52.3	53.8		
IMR 4350		50.0	51.5	53.0	54.5	56.0
RE 19		52.0	53.5	55.0		
H4831 SC		52.7	54.6	56.5	58.4	
Energy Ft. lbs		2104	2263	2427	2597	2774



Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	Varget	48.5	3000	2597
Hunting Load	IMR 4350	56.0	3100	2774



Bullet		Caliber	Weight	Type	C.O.A.L.
	#1905	.284"	140gr.	SBT	2.800"
	#1910	.284"	140gr.	SPT	2.800"

Powder	Velocity	2500	2600	2700	2800	2900
748		40.9	43.2	45.5	47.8	
IMR 4895		41.0	42.7	44.4	46.1	
Varget		41.5	43.2	44.9	46.6	48.3
IMR 4064		41.4	43.0	44.6	46.2	47.8
Viht N140		41.0	42.9	44.8	46.7	
A 4350		47.9	49.4	50.9	52.4	
RE 19		49.0	50.8	52.6	54.4	56.2
H4831 SC			51.8	53.9	56.0	58.1
Energy Ft. lbs		1943	2101	2266	2437	2614



Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	A 4350	50.9	2700	2266
Hunting Load	Varget	48.3	2900	2614

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		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#1913	.284"	150gr.	SBT	2.800"			
		#1915	.284"	150gr.	HPBT MatchKing	2.800"			
Powder	Velocity	2400	2500	2600	2700	2800	2850	2900	
Varget		40.2	41.9	43.6	45.3	47.0			
Viht N140		39.8	41.7	43.6	45.5				
760		44.0	46.0	48.0	50.0				
A 4350		46.7	48.2	49.7	51.2				
IMR 4350		46.8	48.4	50.0	51.6	52.4	53.2		
RE 19		49.1	51.0	52.9	54.8	55.7			
H4831 SC		49.8	51.8	53.8	55.8				
Energy Ft. lbs		1918	2081	2251	2428	2611	2705	2801	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	H4831 SC	53.8	2700	2428					
Hunting Load	IMR 4350	52.4	2850	2705					

		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#1920	.284"	160gr.	SBT	2.800"			
		#1925	.284"	160gr.	HPBT	2.800"			
Powder	Velocity	2300	2400	2500	2600	2700	2800		
Varget		38.7	40.4	42.1	43.8	45.5			
760		43.5	45.2	46.9	48.6	50.3			
A 4350		45.0	46.7	48.4	50.1	51.8			
IMR 4350		43.9	45.5	47.1	48.7	50.3	51.9		
RE 19		45.5	47.3	49.1	50.9	52.7	54.5		
Viht N160		43.9	45.8	47.7	49.6	51.5	53.4		
IMR 4831		46.2	47.9	49.6	51.3	53.0	54.7		
H4831 SC		46.5	48.5	50.5	52.5	54.5			
Energy Ft. lbs		1879	2046	2220	2401	2589	2785		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	IMR 4350	50.3	2700	2589					
Hunting Load	IMR 4831	54.7	2800	2785					

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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#1930	.284"	168gr.	HPBT MatchKing	2.800"
	#4565	.284"	165gr.	TGK	2.800"

Powder ∨	Velocity >	2300	2400	2500	2600	2700	2800
IMR 4895		38.3	40.1	41.9	43.7	45.5	
Varget		39.4	41.1	42.8	44.5	46.2	
IMR 4064		38.5	40.3	42.1	43.9	45.7	47.5
760		42.0	44.0	46.0	48.0	50.0	52.0
IMR 4350		43.5	45.3	47.1	48.9	50.7	52.5
RE 19		45.5	47.4	49.3	51.2	53.1	55.0
Viht N160		44.3	46.3	48.3	50.3	52.3	54.3
IMR 4831		46.5	48.2	49.9	51.6	53.3	55.0
H4831 SC		46.8	48.8	50.8	52.8	54.8	56.8
Energy Ft. lbs		1973	2148	2331	2521	2719	2924

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	IMR 4350	50.7	2700	2719
Hunting Load	Viht N160	54.3	2800	2924

Sierra does not recommend MatchKing bullets for hunting applications.