



7mm Remington Magnum

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 7mm Remington Magnum Cartridge			
Type	Rifle		
Place of origin	 United States		
Production history			
Designer	Remington Arms Company		
Designed	1962		
Manufacturer	Remington		
Produced	1962–Present		
Specifications			
Parent case	.375 Holland & Holland Magnum		
Bullet diameter	.284 in (7.2 mm)		
Neck diameter	.315 in (8.0 mm)		
Shoulder diameter	.491 in (12.5 mm)		
Base diameter	.512 in (13.0 mm)		
Rim diameter	.532 in (13.5 mm)		
Case length	2.5 in (64 mm)		
Overall length	3.29 in (84 mm)		
Rifling twist	1/9 to 1/10"		
Primer type	Large rifle magnum		
Ballistic performance			
Bullet weight/type	Velocity	Energy	
110 gr (7 g) Barnes TTS [1]	3,500 ft/s (1,100 m/s)	2,992 ft·lbf (4,057 J)	
140 gr (9 g) Nosler AB [2]	3,110 ft/s (950 m/s)	3,006 ft·lbf (4,076 J)	
150 gr (10 g) Soft Point [3]	3,110 ft/s (950 m/s)	3,221 ft·lbf (4,367 J)	
165 gr (11 g) Sierra GK BT [4]	2,950 ft/s (900 m/s)	3,188 ft·lbf (4,322 J)	
175 gr (11 g) Soft Point [5]	2,860 ft/s (870 m/s)	3,178 ft·lbf (4,309 J)	
<i>Test barrel length: 24"</i> <i>Source(s): Accurate Powder [6]</i>			

The **7mm Remington Magnum** rifle cartridge was introduced as a commercially available round in 1962,^[6] along with the new Remington Model 700 bolt action rifle. It is a member of the belted magnum family that is directly derived from the venerable .375 H&H Magnum.^[7] The original purpose of the belted magnum concept taken from the .300 H&H and .375 H&H, was to provide precise control of the head-space, since the sloping shoulders, while easing cartridge extraction, provided poor head-spacing. Improved cartridge extraction reliability is desirable while

hunting dangerous game, which would be of concern when needing a fast follow up shot. The 7mm Rem is based on the commercial Winchester .264 Win Mag, .338 Win Mag, and .458 Win Mag, which were based on the same belted .300 H&H and .375 H&H cases, trimmed to nearly the same length as the .270 Wby Mag.^[7]

On its introduction, the 7mm Rem. Mag. substantially usurped the market share held by the .264 Winchester Magnum, which went into sharp decline in popularity and sales after 1962.^[8] Maximum pressure is set by SAAMI at 61,000 PSI.^[6] 52,000 CUP^[9] Remington has recently offered Managed Recoil ammunition for achieving reduced recoil when shooting and for generating less meat damage when hunting smaller game.

Design

The 7mm Remington Magnum offers ballistics better than the .30-06 Springfield with bullet weights of 160 grains and less, the most popular load being a 160 grain spitzer loaded to 3,000 ft/s (910 m/s). This is due both to the higher muzzle velocity of the magnum compared to the Springfield and that .284 diameter bullets tend to have better ballistic coefficients than .308 diameter bullets of comparable mass. It is arguable that the 7 mm Remington Magnum offers marginally better ballistics with 175 grain bullets, the heaviest bullet commonly used in the caliber. The .30-06 Springfield can, however, be loaded with heavier bullets up to 200 and even 220 grains.

Use



Because of its flat shooting nature and the relatively tolerable recoil, the 7mm Remington Magnum is especially popular for Western plains use in the United States, as well as for use on plains game in Africa, where longer reach than commonly achieved with the .30-06 are most often needed ^[citation needed]. It has also been chambered in sniper rifles as the US Secret Service counter-sniper team has deployed this cartridge in urban areas ^[citation needed], and its use out to 2,000 yards has been commonly demonstrated in competition. ^[citation needed]

Popular web gun author Chuck Hawks calls the 7mm Rem "one of the great all-around rifle cartridges."^[10]

Choice of bullet and barrel length

The choice of bullet made when reloading is critical, as the velocity of bullets at close ranges may result in a less tough bullet disintegrating without providing significant penetration on especially tough game. ^[citation needed] Thus one would do well to use a premium bullet of some sort, for instance a bonded bullet. ^[citation needed] The choice of barrel length is also critical, as a 26 or 27-inch (690 mm) barrel is commonly needed to achieve the full velocity potential of the cartridge, and a 24 inches (610 mm) barrel should be viewed as a practical minimum. This is because in shorter, i.e., sporter, barrels, of approximately 22 inches (560 mm), the cartridge ballistics deteriorate to much the same as those achieved in a .270 Winchester, while generating more recoil and muzzle blast than the .270. ^[citation needed]

References

- [1] <http://www.midwayusa.com/viewProduct/default.aspx?productNumber=638692>
- [2] <http://www.midwayusa.com/viewProduct/default.aspx?productNumber=712757>
- [3] <http://www.midwayusa.com/viewProduct/default.aspx?productNumber=465422>
- [4] <http://www.midwayusa.com/viewProduct/default.aspx?productNumber=791889>
- [5] <http://www.cheaperthandirt.com/66186-5.html>
- [6] 7 mm Remington Magnum data from Accurate Powder ([http://www.accuratepowder.com/data/PerCaliber2Guide/Rifle/Standarddata\(Rifle\)/284Cal\(7.21mm\)/7mm Remington Magnum pages 247 and 248.pdf](http://www.accuratepowder.com/data/PerCaliber2Guide/Rifle/Standarddata(Rifle)/284Cal(7.21mm)/7mm%20Remington%20Magnum%20pages%20247%20and%20248.pdf))
- [7] Speer Reloading Manual
- [8] .264 Win Mag data from Accurate ([http://www.accuratepowder.com/data/PerCaliber2Guide/Rifle/Standarddata\(Rifle\)/264Cal\(6.5mm\)/264 Winchester Magnum pages 233 and 234.pdf](http://www.accuratepowder.com/data/PerCaliber2Guide/Rifle/Standarddata(Rifle)/264Cal(6.5mm)/264%20Winchester%20Magnum%20pages%20233%20and%20234.pdf))
- [9] Speer Reloading Manual # 10 & Hornady Handbook of Cartridge Reloading 3rd Edition
- [10] The 7mm Remington Magnum by Chuck Hawks (<http://www.chuckhawks.com/7mmRemMag.htm>)

External links

- 7mm Musings (http://www.chuckhawks.com/7mm_musings.htm) at Chuck Hawks
 - 7mm Remington Mag (<http://www.reloadbench.com/cartridges/7rm.html>) at The Reload Bench
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