




# 7.62×38mmR

<b>7.62×38 mmR</b>		
		
Commercial production 7.62×38R ( <i>right</i> ) in comparison with .32 Smith & Wesson Long and .32 H&R Magnum		
<b>Type</b>	Revolver	
<b>Place of origin</b>	 Belgium  Russia	
<b>Service history</b>		
<b>In service</b>	1895–present	
<b>Used by</b>	Russian Empire USSR Russian Federation	
<b>Wars</b>	Russo-Japanese War World War I Russian Civil War World War II Post 1945 conflicts	
<b>Production history</b>		
<b>Designer</b>	Emile & Léon Nagant	
<b>Designed</b>	1895	
<b>Specifications</b>		
<b>Case type</b>	Rimmed	
<b>Bullet diameter</b>	7.493 mm (0.2950 in)	
<b>Neck diameter</b>	7.26 mm (0.286 in)	
<b>Shoulder diameter</b>	8.38 mm (0.330 in)	
<b>Base diameter</b>	8.94 mm (0.352 in)	
<b>Rim diameter</b>	9.855 mm (0.3880 in)	
<b>Case length</b>	38.86 mm (1.530 in)	
<b>Overall length</b>	38.86 mm (1.530 in)	
<b>Primer type</b>	Berdan or Boxer Small Pistol	
<b>Ballistic performance</b>		
Bullet weight/type	Velocity	Energy
6.3 g (97 gr) FMC	327 m/s (1,070 ft/s)	340 J (250 ft·lbf)
<i>Test barrel length: 114 mm (4.5 in)</i>		

**7.62×38mmR** (also known as **7.62 mm Nagant** and **Cartridge, Type R**) is a unique ammunition cartridge designed for use in the Russian Nagant M1895 revolver.

A small number of experimental submachine guns (See Tokarev 1927), designed by Fedor Tokarev, were also produced in a 7.62 mm Nagant chambering. None, however, were accepted into Soviet service.<sup>[1][2]</sup>

## Background

The projectile is seated below the mouth of the cartridge, with the cartridge crimp sitting just above the bullet. When fired in the Nagant revolver, the crimp expands into the forcing cone, completing the gas-seal and ostensibly increasing muzzle velocity by approximately 23 m/s (75 ft/s).

The 7.62 mm calibre was chosen, in part, to simplify the tooling used in barrel making and manufacture of projectiles—the Russian service rifle of the time—the Mosin Nagant M91 featured an identical bore diameter, being chambered for the 7.62×54R rifle cartridge.

Commercially manufactured and loaded 7.62×38R cartridges are no longer difficult to find. Fiocchi of Italy manufactures cartridges in this chambering; they fire 6.4 g (98 gr) FMJ bullets at about 260 m/s (850 ft/s), which works out to an energy of 213 J (157 ft·lbf)—comparable to a .32 ACP semi-automatic. Prvi Partizan, a Serbian company, also produces a 7.62×38R load similar to Fiocchi's, originally under the "HotShot" brand but now under the standard Prvi Partizan label.

Most commercially loaded ammunition for the Nagant, including Fiocchi and the "CCCP"-marked yellow box imports, are target ammunition, and do not have great stopping power. The low power of these rounds has given the Nagant a reputation as an underpowered sidearm. However, the original military ball cartridges fired bullets in the 6.5 g (100 grains) range at up to 330 m/s (1,100 ft/s), making them close to the .32-20 Winchester and .32 H&R Magnum in power. These original military ball rounds are very hard to find and are considered collector's items.

One advantage of the round, if proper brass can be found, is that it leaves the chambers totally clean, and there is no need to scrape lead and powder residue out.

## Handloading



7.62×38R (7.62 Nagant) cartridge (*left*), shown next to a .32 S&W Long Cartridge and a .22 LR cartridge for comparison.

Many users of this calibre handload their own ammunition, though the proper brass cases are also expensive and difficult to come by. However, Starline has been developing and perfecting brass for the cartridge, and handloaders have had success using dies for the .32-20 and .30 Carbine to handload the rounds. 32-20 brass cases are inexpensive, readily available, and can be reformed and used safely in guns chambered for 7.62×38R, but the resulting cartridges are too short to achieve the gas seal. Cut down 223 brass reformed in 30 carbine dies can be utilized to load for the Nagant also. These will achieve the gas seal, but case rims will be undersized.

Three other cartridges—.32 S&W, .32 S&W Long, and .32 H&R Magnum—will also generally chamber and fire in the revolver, but will not achieve the gas seal. The case head of the .32 S&W/H&R is

about the same size as the case diameter of the Nagant cartridge, so the case head will sometimes actually end up moving into the chamber, thus preventing an adequate primer strike. Due to the dimensional differences between these cartridges and the original 7.62×38R cartridge, this practice is done at the shooter's own risk. The .32 H&R Magnum in particular develops much higher pressures than the 7.62 Nagant or either of the .32 S&W cartridges, which are all 19th century developments. The most common anomaly when firing these cartridges is bulged cases.<sup>[3]</sup>

## References

- [3] Nagant 1895 (<http://www.sff.net/people/sanders/nagant.html>)
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