

Cast Bullet Engineering



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.310 MARTINI CADET

This popular single shot rifle has a bore size of .310" and a groove diameter of .316" to .318". Similar in size to the Winchester 32-20 , the .310 Cadet was originally loaded with a Full Metal Jacket projectile as required for Military use and a swaged lead projectile for target work.

The cartridge/rifle combination was found to be very accurate and was popular in the early 1900's as a "Miniature Target Rifle". Large numbers were shipped to Australia as training rifles for Cadets and in WW2 they were provided for use by Home Guard defences in the event of an invasion by Japanese Forces.

Experience has shown that heeled projectiles with diameters from .318" to .323" give best results as the gently tapered throat on these barrels actually measures around .325" in front of the case mouth. Chamber castings show there is no step in the chamber . Barrels we have examined show a smooth polished lead ideal for cast bullets. Case thickness varies between original and modern manufactured brass and most modern cases will not chamber with projectiles having a heel much larger than bore size (.310") and in some brass the heel needs to be even smaller.

C.B.E. offer the widest variety of projectile designs available anywhere for this caliber. In the photo below on the top left is a .310 case loaded with our most popular design # 320-120. Beside the cartridge on the right is a fired projectile recovered from the mound . Note that the heeled section (just visible between the lube groove and the rear) has expanded and is fully engraved by the rifling. The heel was .310" before firing and expanded to fill the .318" groove diameter. Smaller diameter heels will also upset provided the alloy is not too hard. The more the heel has to upset the more effect it can have on accuracy so bigger is better in this situation.

PHOTO LEFT TO RIGHT :

1. # 320-120 Our most popular design. Mould stamping ".310 CADET"
2. # 320-130 This is a good design for use with Black Powder loads.
3. # 320-118 Flat Nose Hunting Bullet originally 118gns now 125gn.
4. # 310 Cadet No.2 125gn bullet similar to the original target style.
5. #310 Cadet No.2R as above but with smaller diameter heel.
6. # 320-142 for use in rifles rechambered to 32-20 etc.



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Specialising in Precision Bullet Moulds and Accessories.