

CNPG – CaseNeckPerformanceGauge

THE CASE NECK GAUGE WITH MORE PERFORMANCE

A constant and symmetrical material composition of the individual case or rather the whole lot of cases, is one of the best condition for a respectable and exact shooting performance of the rifle.

What can be measured with the CNPG?

1. The constant neck wall thickness across the whole circumference
2. The effective neck wall thickness

CNPG - Unique selling proposition (USP)

- IT'S AN INDEPENDENT CALIBER MEASURING SYSTEM !!
NO FURTHER EQUIPMENT IS NECESSARY

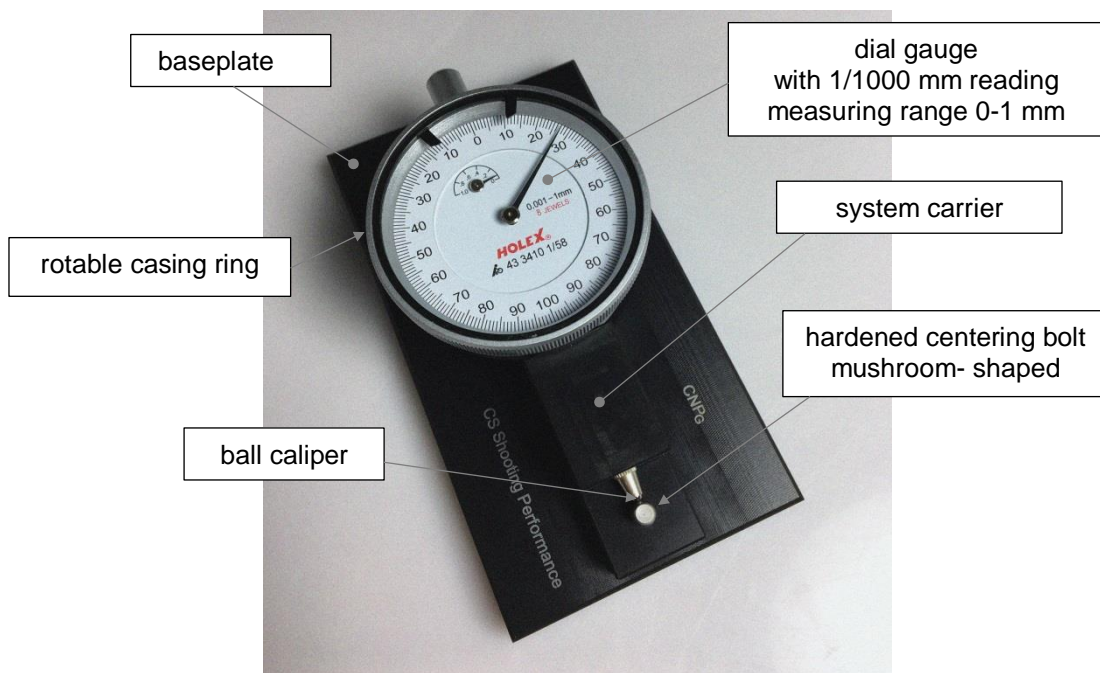
1. The constance of the neck wall thickness

If you have a constant neck wall thickness you can be sure that the whole case, from the shoulder to the body, till the base are equal.

Why it's significant?

- + Better concentricity between bullet and case
 - + Smooth forces between press in and withdrawal strength of the bullet
 - + Slight v0 difference from shoot to shoot
 - + Equal concentricity case dilation in the cartridge chamber
 - + Cases can be reloaded more often

1.1 CNPG – Components



1.2 The measuring process

Take your case and put the neck between centuring bolt and ball taster. The pointer of the counter deflects (for an exact measuring you have to unhand the case) and now you can measure the exact neck wall thickness in this position.

Requirement:

On the beginning you have to turn the ring of the gauge on 0 position.

Is the gauge not in that position, you measure the standard value and not the absolute value.

In most instances, working with standard values will satisfy.

By turning & unhand the case (in small angel steps) you get across the whole diameter of the case neck, absolute or standard values. SIMPLY, EXACT and QUICK !!

APPLICATION EXAMPLE

If the pointer deflects over the entire diameter between 40 and 80, we have measured a maximum wall thickness difference of 0.04 mm.

If you are interested in, to calculate the exact wall thickness, you have to set the dial gauge previously to 0. Now you can add the digits of the small pointer (0.2 / 0.3 / 0.4 mm) to the value of the large pointer.

With several measurements on cases of the same lot, you get a feeling for the wall thickness in which the cases moves. A good average value can be set by the adjustable casing ring on the dial gauge.

Which deviation from the mean value, or how large the tolerance field is selected, depends on the quality of the cases and the quantity of available cases and is left to each reloader.

Good cases are less than 0.03 mm.

2. The effective neck wall thickness

Reloader who turns off their cases are able to check and measure the exact case thickness by the CNPG any time. Measuring process as above mentioned - turn the ring of the gauge on 0 position.

Have fun with the CNPG !

Christian