

# Controlo metrológico com calibres cilíndricos

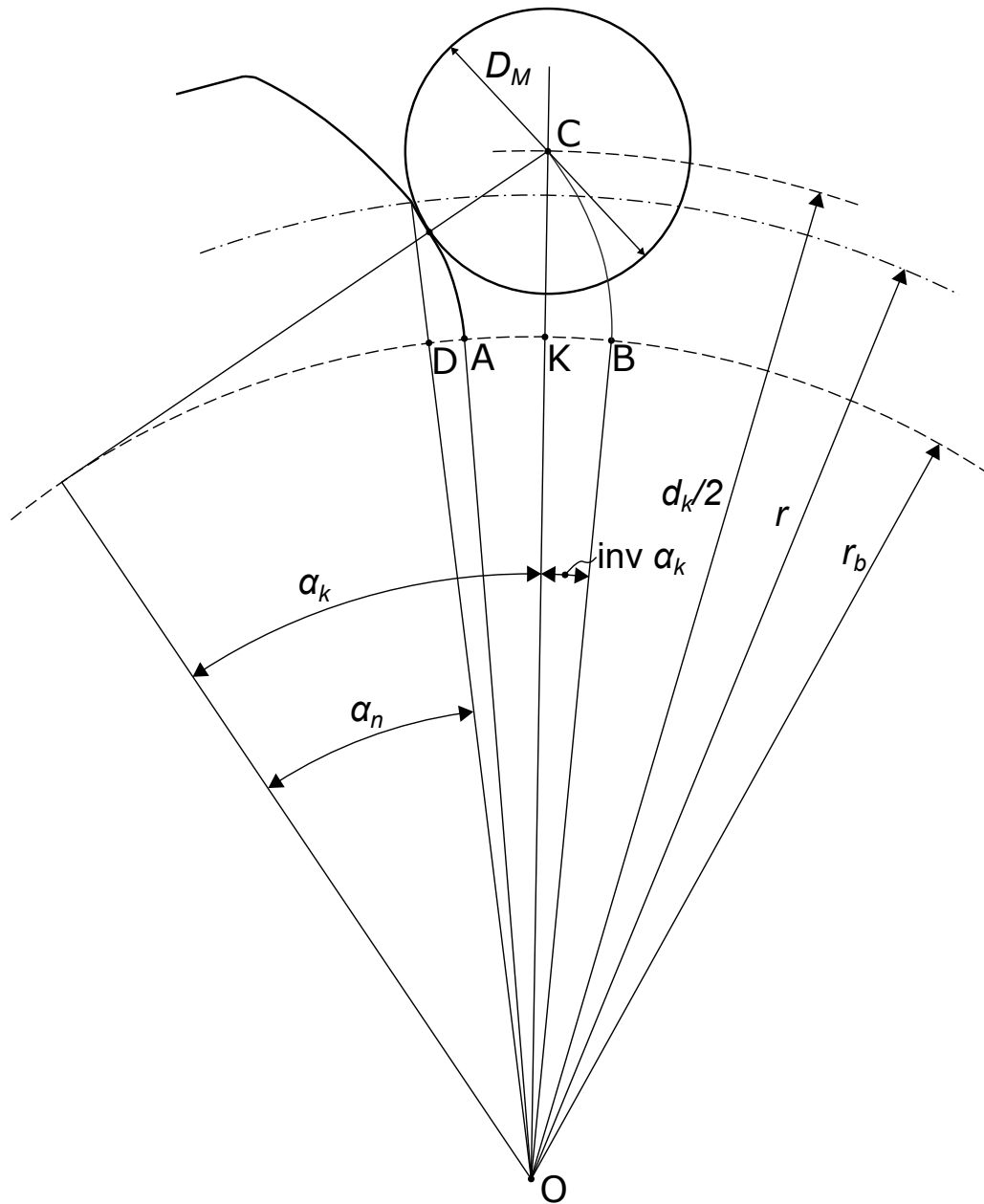


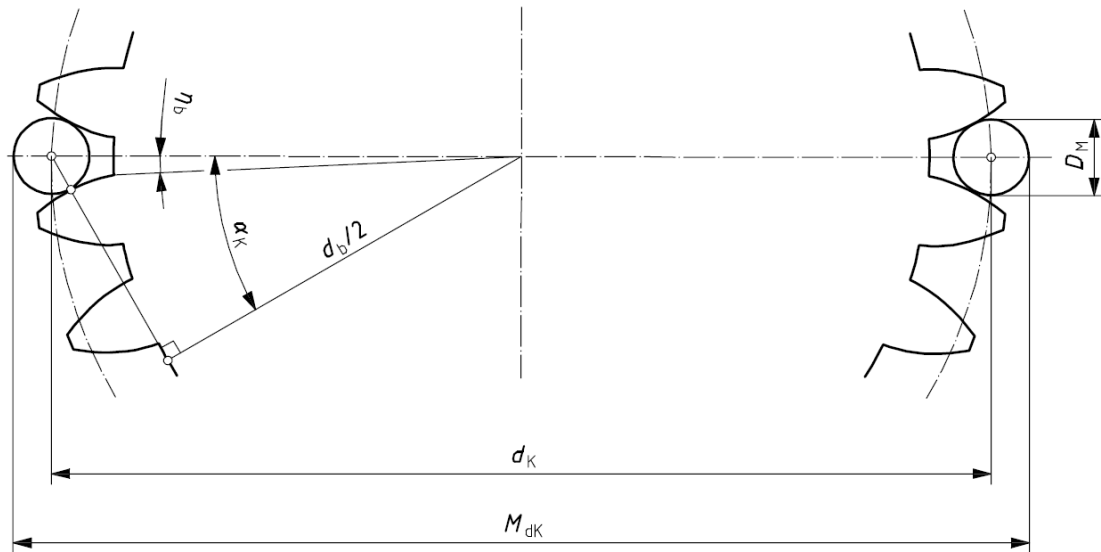
Figura 1: Controlo por calibre cilíndrico

$$\widehat{DB} = \widehat{DA} + \widehat{AB} = \widehat{DK} + \widehat{KB}$$

$$\widehat{DB} = \text{inv } \alpha_n \cdot r_b + \frac{D_M}{2} = \frac{i}{2} \cdot \frac{r_b}{r} + \text{inv } \alpha_k \cdot r_b$$

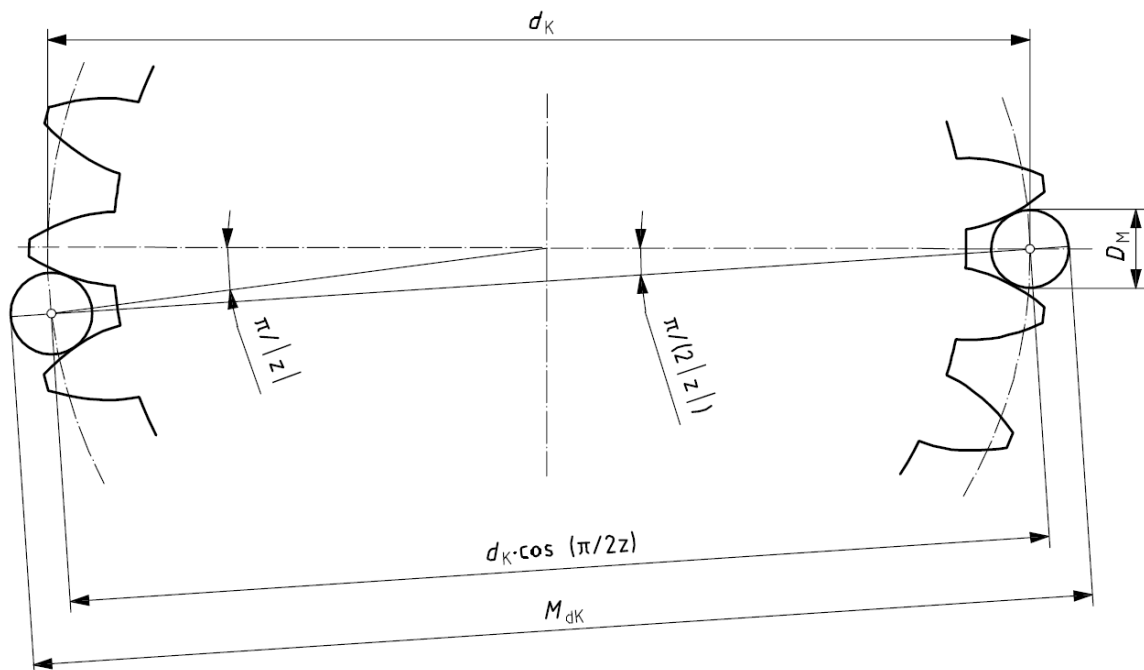
$$\begin{cases} \text{inv } \alpha_n \cdot r_b + \frac{D_M}{2} = \frac{i}{2} \cdot \frac{r_b}{r} + \text{inv } \alpha_k \cdot r_b \\ \frac{d_k}{2} \cdot \cos \alpha_k = r_b \end{cases}$$

## Número par de dentes



$$M_{dk} = d_k + D_M \text{ [ISO 21771:2007]}$$

## Número ímpar de dentes



$$M_{dk} = d_k \cdot \cos\left(\frac{\pi}{2 \cdot z}\right) + D_M \text{ [ISO 21771:2007]}$$