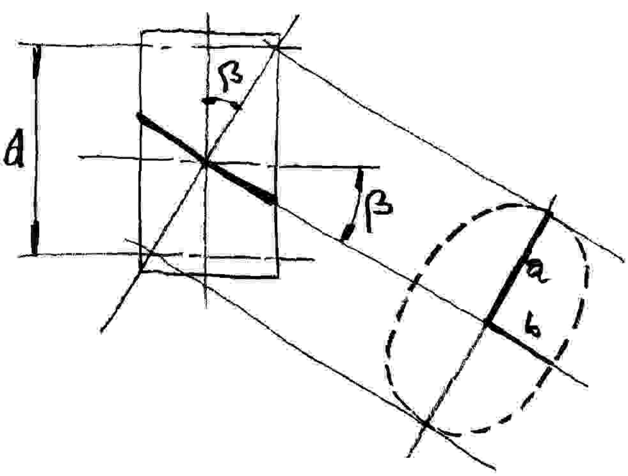


$$\rho = \frac{a^2}{b}$$

$$a = \frac{d}{2\cos\beta}$$

$$b = \frac{d}{2}$$

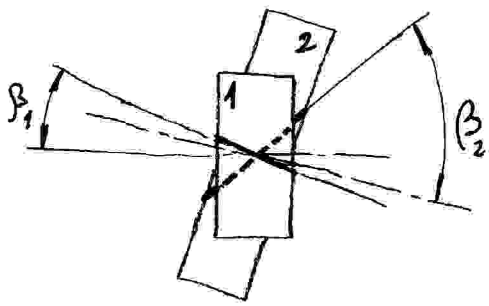
$$d_{id} = 2\rho = \frac{d}{\cos^2\beta}$$

$$\begin{cases} d_{id} = m_n Z_{id} \\ d = m_t Z \\ d_{id} = \dfrac{d}{\cos^2\beta} \\ Z_{id} = \dfrac{Z}{\cos^3\beta} \end{cases}$$

$$i = \frac{\omega_1}{\omega_2} = \frac{d_2 \cos\beta_2}{d_1 \cos\beta_1} = \frac{Z_2}{Z_1}$$

con ruote con ugual ϕ si può ottenere $i \neq 1$

ma ed m_n sono uguali per le ruote da accoppiare, m_t varia perché dipende da β:



$$m_{t_1} = \frac{m_n}{\cos\beta_1}$$

$$m_{t_2} = \frac{m_n}{\cos\beta_2}$$