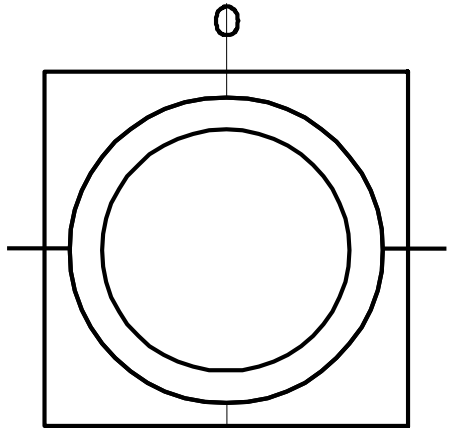
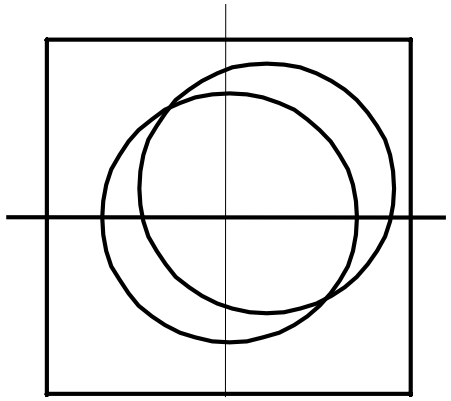
0th order
diameter increase



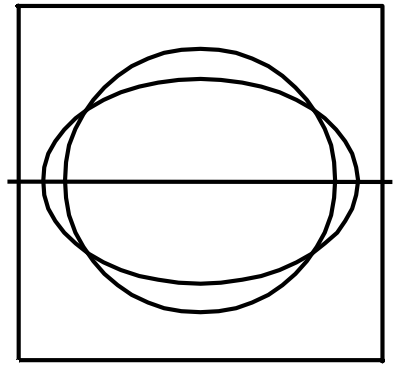
1st order
eccentricity



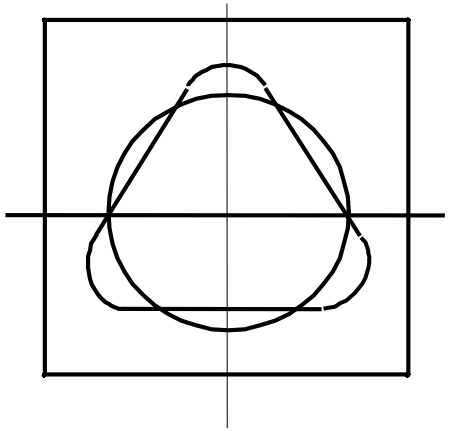
$$\Delta r = \frac{U_0}{2} + \sum_i^n \left(\frac{U_{\mathrm{bi}}}{2} cos\big(i(\theta - \phi_{\mathrm{bi}})\big) \right)$$

Δr = deviation of the radius
U_0 = arithmetical average value
U_{bi} = values of the Fourier amplitude spectrum
θ = angular frequency
ϕ_{bi} = values of the Fourier phase spectrum
i = order number

2nd order
oval distortion



3rd order
triangle distortion



4th order
clover-leaf distortion