$$H := \sqrt{R^2 - r^2} = 59.791 \ mm$$

$$S_{A2x} := \int_0^H y \cdot \left(\sqrt{R^2 - y^2} - r\right) \mathrm{d}y = 63020.811 \ mm^3$$

$$A_2 := \int_0^{R-r} \left(\sqrt{R^2 - y^2} - r\right) \mathrm{d}y = 2471.812 \ mm^2$$

$$y_{G2} := \frac{S_{A2x}}{A_2} = 25.496 \ mm$$