$$egin{align} J_{A2n} &\coloneqq 2 ullet \int\limits_0^{R-y_G} y^2 ullet \left( \sqrt{R^2 - (y - y_G)}^2 - r 
ight) \mathrm{d}y = \left( 4.81 ullet 10^6 
ight) m{mm}^4 \ J_{A1pn} &\coloneqq 2 ullet \int\limits_0^{R-y_G} y^2 ullet \left( \sqrt{R^2 - (y + y_G)}^2 - r 
ight) \mathrm{d}y = \left( 3.96 ullet 10^6 
ight) m{mm}^4 \ J_{rn} &\coloneqq rac{d_l ullet \left( h - y_G 
ight)^3}{12} + \left( h - y_G 
ight) ullet d_l ullet \left( rac{h - y_G}{2} 
ight)^2 = 268.783 m{mm}^4 \ \end{split}$$

 $J_{Tn} \coloneqq rac{d_l ullet (r ullet an (30 oldsymbol{deg}))^3}{36} + rac{d_l ullet r ullet an (30 oldsymbol{deg})}{2} ullet \left(rac{r ullet an (30 oldsymbol{deg})}{3} + (h - y_G)
ight)^2 = 409.452 oldsymbol{mm}^4$ 

 $J_{Tn} := \frac{1}{36} + \frac{1}{2} \cdot \left[ \frac{3}{3} + (n - y_G) \right] = 409.452 \text{ mm}^4$   $J_{ACn} := J_{A2n} + J_{A1pn} - J_{rn} - J_{Tn} = \left( 8.769 \cdot 10^6 \right) \text{ mm}^4$