$$AI := \frac{1}{4} \cdot \frac{\pi \cdot d_c^{\,2}}{4} = \left(2.827 \cdot 10^{3}\right)\ mm^2$$

$$AII := \frac{d_l}{2} \cdot h = 30\ mm^2$$

$$AIII := \frac{1}{2} \cdot \frac{d_l}{2} \cdot \frac{d_l}{2} \cdot \tan(30\ deg) = 7.217\ mm^2$$

$$A_1 := AI - AII - AIII = 2790.217\ mm^2$$

$$y_{GI} := \frac{2}{3} \cdot \frac{d_c}{\pi} = 25.465\ mm$$

$$y_{GII} := \frac{h}{2} = 3\ mm$$

$$y_{GIII} := h + \frac{d_l}{2} \cdot \tan(30\ deg) \cdot \frac{1}{3} = 6.962\ mm$$

$$y_{G1} := \frac{y_{GI} \cdot AI - y_{GII} \cdot AII - y_{GIII} \cdot AIII}{A_1} = 25.754\ mm$$