$$dx1 := A_1 = 220 \; \textbf{\textit{mm}}$$

$$dx2 := 3 \; A_1 = 660 \; \textbf{\textit{mm}}$$

$$dxp := dx1, dx1 + \frac{dx2 - dx1}{50} \, .. \, dx2$$

$$f(dxp) := \frac{\mathrm{interp}\left(y_S, x, y, \dfrac{d_c}{A_1}\right)}{s_1 \cdot \left(A_1 - d_c\right)} - \frac{\mathrm{interp}\left(y_S, x, y, \dfrac{d_c}{dxp}\right)}{s_2 \cdot \left(dxp - d_c\right)}$$

$$dxs := \textbf{root}\left(f(dxp), dxp, dx1, dx2\right) = 270.561 \; \textbf{\textit{mm}}$$

$$\sigma_l := \frac{G_u + G_g + G_i}{4 \cdot s_1 \cdot \left(A_1 - d_c\right)} = 3.463 \; \frac{\textbf{\textit{kgf}}}{\textbf{\textit{mm}}^2}$$

$$\sigma_p := \frac{G_u + G_g + G_i}{4 \cdot s_2 \cdot \left(dxs - d_c\right)} = 3.067 \; \frac{\textbf{\textit{kgf}}}{\textbf{\textit{mm}}^2}$$

$$kt_l := \mathrm{interp}\left(y_S, x, y, \frac{d_c}{A_1}\right) = 2.46$$

$$kt_p := \mathrm{interp}\left(y_S, x, y, \frac{d_c}{dxs}\right) = 2.777$$

$$\sigma_{lmax} := kt_l \cdot \sigma_l = 8.517 \; \frac{\textbf{\textit{kgf}}}{\textbf{\textit{mm}}^2}$$

$$\sigma_{pmax} := kt_p \cdot \sigma_p = 8.517 \; \frac{\textbf{\textit{kgf}}}{\textbf{\textit{mm}}^2}$$