Static Permissible Moment

The static permissible moment (M_0) of the cross-roller ring is obtained from the following equation.

$$M_0 = C_0 \cdot \frac{dp}{2} \times 10^{-3}$$

M_0 : Static permissible moment (kN·m)
C_0 : Basic static load rating (kN)
dp : Roller pitch circle diameter (mm)

Static Permissible Axial Load

The static permissible axial load (Fa_0) of the cross-roller ring is obtained from the following equation.

$$Fa_0 = \frac{C_0}{Y_0}$$

Fa_0 : Static permissible axial load (kN)
Y_0 : Static axial factor ($Y_0 = 0.44$)