

A/3

$$I_x \approx Ad^2 = 300(15)^2 = 67.5(10^3) \text{ mm}^4$$

$$J_o = I_x + I_y = 67.5(10^3) + 35(10^3) = 102.5(10^3) \text{ mm}^4$$

$$r_o = \sqrt{J_o/A} = \sqrt{\frac{102.5(10^3)}{300}} = \underline{18.48 \text{ mm}}$$

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