

$$I_1 = \frac{1}{12} b h^3 = \frac{1}{12} \cdot 8 \cdot 10^3 = 666.67 \text{ cm}^4$$

$$I_2 = \frac{1}{12} b h^3 = \frac{1}{12} \cdot 10 \cdot 8^3 = 533.33 \text{ cm}^4$$

$$I = I_1 + I_2 = 1200 \text{ cm}^4$$

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$$x = 0.257 + 0.250 = 0.507 \text{ cm}$$

$$y = 0.243 + 0.250 = 0.493 \text{ cm}$$

El eje de inercia es $I_x = 1200 \text{ cm}^4$.

Como no existe soldadura de $1/8"$, se utilizará de $1/8"$.

$$s = 1000 \times 0.207 \times 0.318 = 64.14 \text{ Kg/cm}$$

$$I = \frac{1}{12} b h^3 = \frac{1}{12} \cdot 10 \cdot 8^3 = 533.33 \text{ cm}^4$$

$$0.89 x = 2.28 y$$

$$x + y = 4.76$$

$$x = 3.44 \text{ cm}$$

$$y = 1.32 \text{ cm}$$

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