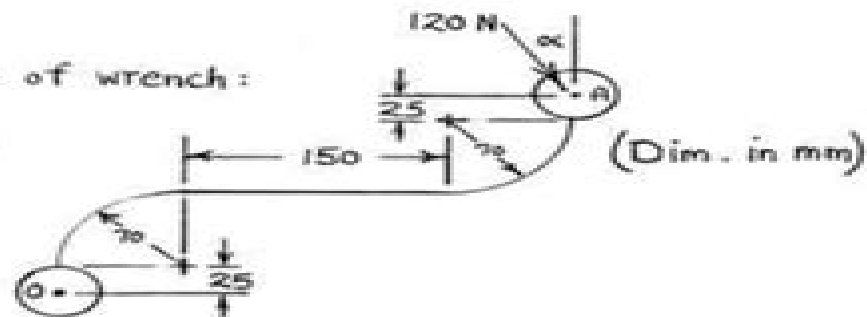


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Elements of wrench:



$$\alpha = 30^\circ:$$

$$\begin{aligned} \rightarrow M_o &= 120 \cos 30^\circ [70 + 150 + 70] \\ &\quad + 120 \sin 30^\circ [25 + 70 + 70 + 25] = 41\,500 \text{ N}\cdot\text{mm} \end{aligned}$$

$$\text{or } \underline{M_o = 41.5 \text{ N}\cdot\text{m} \text{ CW}}$$

For maximum M_o :

$$\alpha = \tan^{-1} \left[\frac{25 + 70 + 25 + 70}{70 + 150 + 70} \right] = \underline{33.2^\circ}$$

$$\begin{aligned} (M_o)_{\max} &= 120 \sqrt{(25 + 70 + 25 + 70)^2 + (70 + 150 + 70)^2} \\ &= 41\,600 \text{ N}\cdot\text{mm} \text{ or } \underline{41.6 \text{ N}\cdot\text{m} \text{ CW}} \end{aligned}$$

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J. L. Meriam



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[Statics \(Solutions Manual\)](#) James L. Meriam, 1971-09-17

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