

$$\begin{aligned}
 7550.08 &= d_1 L_1 \mu \\
 &= d_1 \times 1.25 d_1 \times 0.5 \\
 7550.08 &= 0.625 d_1^2 \\
 d_1 &= 109.90 \text{ mm} \\
 \therefore L_1 &= 1.25 \times 109.90 \\
 L_1 &= 137.38
 \end{aligned}$$

Check the pin for induced shearing stress.

$\therefore$  the pin is in double shear.  
 $\therefore$  max. tension,

$$\begin{aligned}
 T_1 &= 2 \times \frac{\pi}{4} (d_1)^2 \tau \\
 7550.08 &= 2 \times \frac{\pi}{4} \times (109.90)^2 \times \tau \\
 \tau &= 0.397 \text{ MPa}
 \end{aligned}$$

This induced stress is quite within permissible limits.

Check the pin for induced bending stress.

max. bending moment,

$$\begin{aligned}
 M &= \frac{5}{24} \times W L_1 \\
 &= \frac{5}{24} \times 7550.08 \times 137.38
 \end{aligned}$$

$$M = 216089.58 \text{ N-mm}$$

Section Modulus

$$\begin{aligned}
 Z &= \frac{\pi}{32} (d_1)^3 \\
 &= \frac{\pi}{32} \times (109.90)^3 \\
 &= 130914.568 \text{ mm}^3
 \end{aligned}$$

# Spring Chapter Machine Design Khurmi

**Lingjun Ying**



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