

1. An engine shaft running at 120 r.p.m. is required to drive a machine shaft by means of a belt. The pulley on the engine shaft is of 2 m diameter and that of the machine shaft is 1 m diameter. If the belt thickness is 5 mm ; determine the speed of the machine shaft, when 1. there is no slip ; and 2. there is a slip of 3%.  
[Ans. 239.4 r.p.m. ; 232.3 r.p.m.]

$$N_1 = 120 \text{ r.p.m} \quad d_1 = 2\text{m} \quad t = 5\text{mm} = 0.005\text{m} \quad d_2 = 1\text{m} \quad N_2 = ?$$

**Solution:**

1. With no slip

$$\frac{N_1}{N_2} = \frac{d_1 + t}{d_2 + t} \rightarrow \frac{N_2}{120} = \frac{2 + 0.005}{1 + 0.005} \rightarrow N_2 = \left( \frac{2 + 0.005}{1 + 0.005} \right) \times 120 = 239.4 \text{ r.p.m}$$

2. With a slip of 3%

$$\begin{aligned} \frac{N_1}{N_2} &= \frac{d_1 + t}{d_2 + t} \times \left( 1 - \frac{s_1 + s_2}{100} \right) \rightarrow \frac{N_2}{120} = \frac{2 + 0.005}{1 + 0.005} \times \left( 1 - \frac{3 + 3}{100} \right) \\ \rightarrow N_2 &= \left( \frac{2 + 0.005}{1 + 0.005} \right) \times \left( 1 - \frac{3 + 3}{100} \right) \times 120 = 225.25 \text{ r.p.m} \end{aligned}$$

3. A pulley is driven by a flat belt running at a speed of 600 m/min. The coefficient of friction between the pulley and the belt is 0.3 and the angle of lap is  $160^\circ$ . If the maximum tension in the belt is 700 N ; find the power transmitted by a belt.  
[Ans. 3.983 kW]

$$v = 600 \text{ (m/min)} \times \left( \frac{1\text{min}}{60\text{s}} \right) = 10\text{m/s} \quad \mu = 0.3 \quad \theta = 160^\circ \times \frac{\pi}{180} = 2.8\text{rad}$$

$$T = 700\text{N} = T_1 \quad P = ?$$

**Solution:**

$$\frac{T_1}{T_2} = e^{\mu\theta} = e^{0.3 \times 2.8} = 2.31 \rightarrow T_2 = \frac{T_1}{2.31}$$

$$\text{When } T_1 = 700\text{N} \rightarrow T_2 = \frac{700}{2.31} = 303\text{N}$$

$$P = (T_1 - T_2) \times v = (700 - 303) \times 10 = 3983\text{W} = 3.983\text{KW}$$

# Theory Of Machine By Rs Khurmi Solution Manual

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