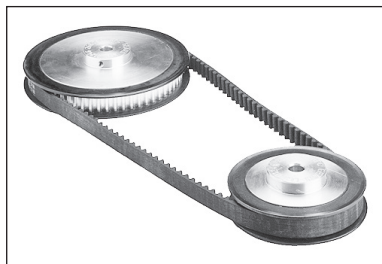


Timing belt length

Belt calculation



Each belt has a fixed length, therefore when designing your system include a mechanism for altering the distance between the pulleys so that the belt or chain can be tensioned correctly. Please see our ranges of belt idlers (**BTE, BTE/SS, TMR or TFR**) and rollers (**GTC or GTC/SS**). Please feel free to contact us if you need assistance when dimensioning your system.

Determination of belt length

D1 = Pitch diameter of large pulley
D2 = Pitch diameter of small pulley
A = Center distance
L = Total belt length
Z1 & Z2 = No of teeth
P = Pitch

$$D1 = \frac{Z_1 \cdot P}{\pi} \quad D2 = \frac{Z_2 \cdot P}{\pi}$$

$$\text{No. of teeth} = \frac{L}{P}$$

