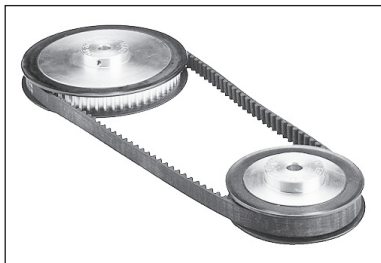


Timing belt length

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

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

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

