

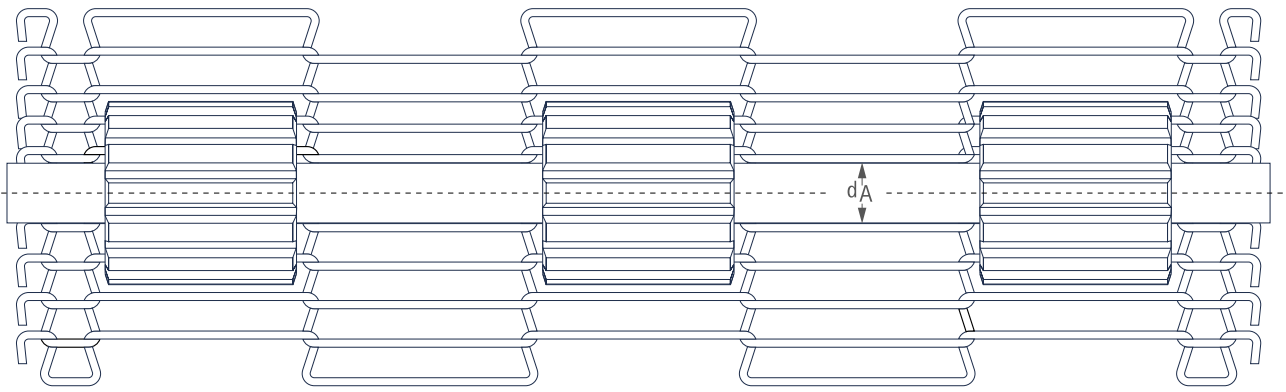
## Rod network belts DRIVE SHAFTS AND SPROCKETS

Rod network belts are driven by shafts with mounted drive sprockets. The layout of the drive sprockets is shown in the sketch.

**Drive sprocket width (guide value)**  
 Mesh length - 10 mm

**Material**  
 Shafts = steel, stainless steel  
 Drive sprockets = POM, PEEK, steel, stainless steel

**Application**  
 POM is used for standard applications while PEEK, steel and stainless steel are used for high temperature applications.

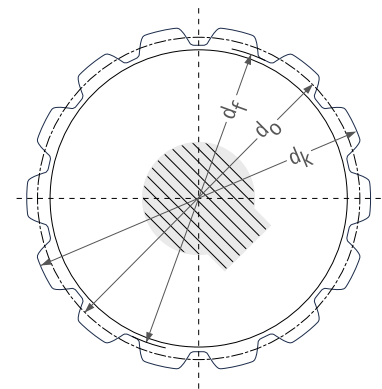


$d_A$  = Shaft diameter

### Drive sprocket calculation

Reference circle circumference = Number of teeth x pitch  
 Reference circle-Ø ( $d_o$ ) = Reference circle circumference  $\div \pi$   
 Root circumference-Ø ( $d_f$ ) = Reference circle-Ø - wire-Ø  
 Outside-Ø ( $d_k$ ) = Root circle + 2 x tooth height\*

*Tooth height/mm	Wire-Ø/mm
2,0	0,9 and 1,0 in spacing range 3,5 - 4,4 mm
3,0	0,9 - 1,4
4,0	1,6 - 2,0
5,0	2,35 - 2,8



$d_o$  = Reference circle - Ø/mm  
 $d_f$  = Root circle - Ø/mm  
 $d_k$  = Outside - Ø/mm