CROWNING OF PULLEYS – BELT CONVEYORS

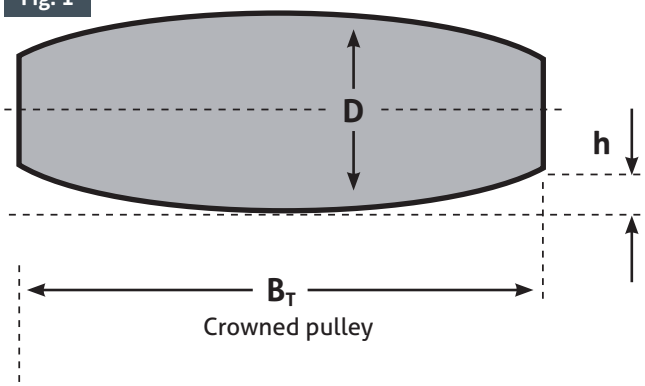
Crowing of drive- and end pulleys assures correct tracking of the belt

The crowning is normally made as classical crowned pulley (Fig. 1) or as a cylindrical tapered pulley (Fig. 2). If pulley lagging is used - we recommend to make the crowning in the "steel part "of the pulley and not in the pulley lagging !

Crowning "h"

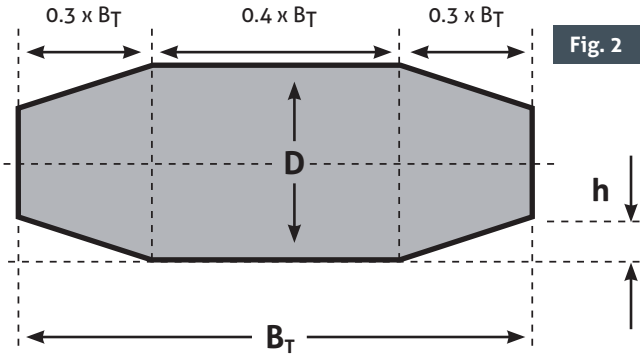
Pulley Diameter "D" mm	Length of pulley/ Taper "BT"				
	< 125	140/160	180/200	225/250	>280
< 200	0.5	0.5	0.5	0.5	0.7
250	0.8	0.8	0.8	0.8	0.8
315/320	0.8	0.8	0.8	0.8	0.8
400	1.0	1.0	1.0	1.0	1.0
500	1.0	1.25	1.25	1.25	1.25
630	1.0	1.40	1.50	1.60	1.60
700	1.0	1.50	1.60	1.70	1.80
800	1.0	1.50	2.0	2.5	2.5
1000	1.0	1.50	2.0	2.5	2.5
1250	1.0	1.50	2.0	2.5	3.0

Fig. 1



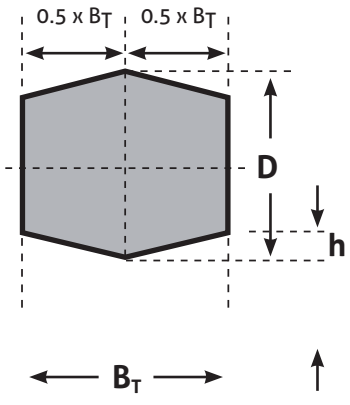
Crowned pulley

Fig. 2



Cylindrical tapered pulley

Fig. 3



Sometimes pulleys are made as shown in Fig. 3
We recommend NOT to construct you pulley like that, as this will cause unnecessary wear and tear on the belt – in worst case the belt can be dived/cut into two parts!

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