



CROWNING OF PULLEYS – BUCKET ELEVATORS

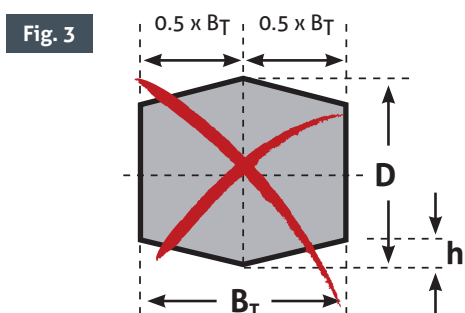
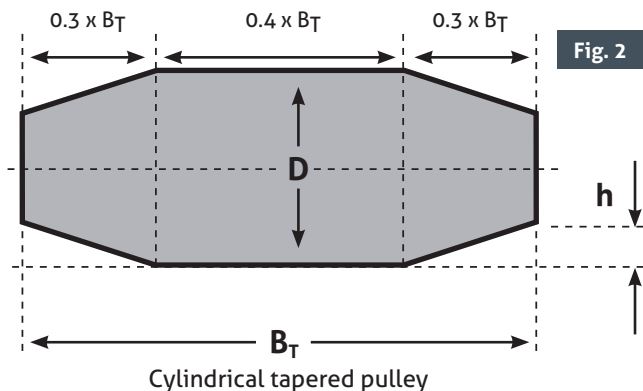
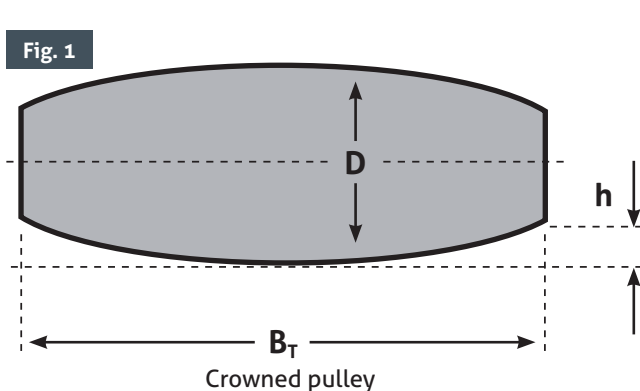
Crowning of drive- and end pulleys assures correct tracking of the elevator belt

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!

Most problems regarding elevator belts are related to the backside of the elevator belt. Often heavy abrasion is seen between the elevator bolts. This abrasion is, in many cases, caused by crowning being too high. This problem can partly be solved by installing distance washers between belt and bucket. [Wish to learn more please download HERE](#)

Crowning "h"

Pulley Diameter "D" mm	Length of pulley/ Taper "BT"				
	< 125	140/160	180/200	225/250	>280
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



Sometimes pulleys are made as shown in Fig. 3

We recommend NOT to construct your 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!