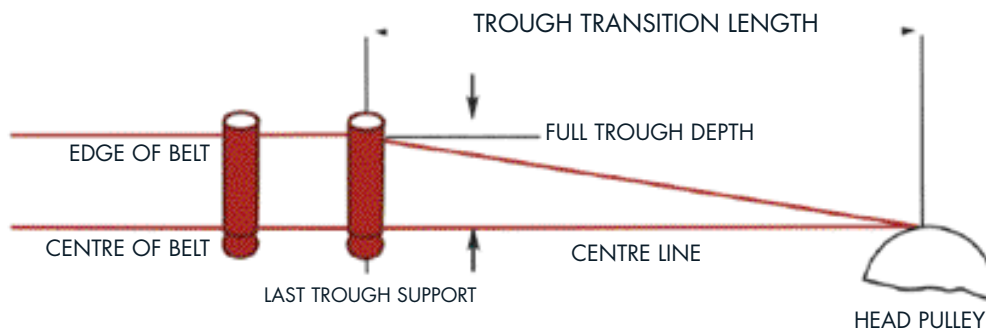


TROUGH TRANSITION LENGTH

The distance between the first full trough station and the drive pulley or the tail pulley must be adjusted to avoid an excess tension of the edges in the transition area or compression of the central part if the tension is weak. There are two trough transition length possibilities.

Case no. 1
Minimum trough transition length with upper generatrix of the pulley in the axis of the generatrix of the centre roller of the carrying stations.



TECHNICAL INFORMATION

Textile belts	Percentage of rated tension	TROUGH ANGLE		
		30 degrees	35 degrees	45 degrees
<ul style="list-style-type: none"> • TRANSPLY • MULTIPLY • MULTITRANS / EP • BIATHLON • TRIATHLON • RIP-STOP • TRANSLAM • TRANSTHERM • TRANSOIL • TRANSPROFIL 	> 90 %	1.5 x l	1.9 x l	2.8 x l
	60 to 90 %	1.3 x l	1.5 x l	2.2 x l
	< 60 %	1.0 x l	1.2 x l	1.7 x l
Metal belts	Percentage of rated tension	TROUGH ANGLE		
		30 degrees	35 degrees	45 degrees
<ul style="list-style-type: none"> • METALCORD M • METALTRANS M • AUTOSTABLE M • TRANSTHERM MWH 	> 90 %	1.7 x l	2.1 x l	3.0 x l
	60 to 90 %	1.5 x l	1.9 x l	2.6 x l
	< 60 %	1.3 x l	1.6 x l	2.3 x l
<ul style="list-style-type: none"> • METALCORD E • METALTRANS E 	> 90 %	2.1 x l	2.5 x l	3.4 x l
	60 to 90 %	1.9 x l	2.2 x l	3.1 x l
	< 60 %	1.6 x l	1.8 x l	2.7 x l

l : width of belt

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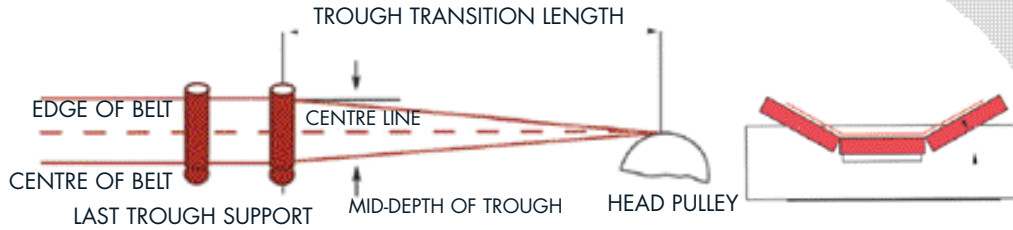
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Case no. 2

Minimum trough transition length with centre line of the pulley raised with respect to the face of the centre roller of the carrying idlers by one third of the height of the trough.



Textile belts	Percentage of rated tension	TROUGH ANGLE		
		30 degrees	35 degrees	45 degrees
<ul style="list-style-type: none"> • TRANSPLY • MULTIPLY • MULTITRANS / EP • BIATHLON • TRIATHLON • RIP-STOP • TRANSFLAM • TRANSTHERM • TRANSOIL • TRANSPROFIL • PP POLYAMIDE 	> 90 %	1.2 x l	1.5 x l	2.3 x l
	60 to 90 %	1.1 x l	1.2 x l	1.8 x l
	< 60 %	0.8 x l	1.0 x l	1.4 x l
	All tensions	0.9 x l	1.1	1.3 x l
Metal belts	Percentage of rated tension	TROUGH ANGLE		
		30 degrees	35 degrees	45 degrees
<ul style="list-style-type: none"> • METALCORD M • METALTRANS M • AUTOSTABLE M • TRANSTHERM MWH 	> 90 %	1.3 x l	1.7 x l	2.4 x l
	60 to 90 %	1.2 x l	1.5 x l	2.1 x l
	< 60 %	1.0 x l	1.3 x l	1.8 x l
<ul style="list-style-type: none"> • METALCORD E • METALTRANS E 	> 90 %	1.7 x l	2.0 x l	2.7 x l
	60 to 90 %	1.5 x l	1.8 x l	2.5 x l
	< 60 %	1.3 x l	1.5 x l	2.2 x l
• ST STEELCORD	All tensions	1.75 x l	2.0 x l	2.55 x l

l : width of belt

Elevation of pulley with respect to face of centre roller of carrying idlers: the table below indicates this value for 30° and 45° troughs in mm.

Trough angle	Width of belt										
	500	650	800	1000	1200	1400	1600	1800	2000	2250	2400
30°	22	31	36	48	56	68	78	89	100	115	125
45°	////	40	47	62	72	87	100	114	127	147	157

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