

## TENSION TRAVEL NECESSARY FOR BELTS

The adjustment of the tension travel depends on:

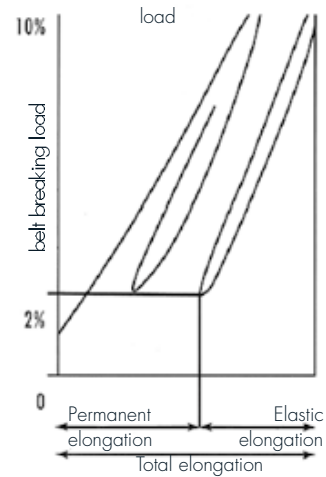
- The centre distance of the conveyor and its working tension
- The conveyor starting and stopping system.
- The position of the tension system
- The nature of the carcass of the belt

The elongation of a belt is broken down into two parts: the permanent elongation and the elastic elongation.

In certain cases it is possible to reduce the tension travel by complying with certain procedures

- Either during manufacturing
- Or during placing of the belt in endless configuration on the operating site.

Consult our technical departments.



TECHNICAL INFORMATION

For textile belts, the permanent elongation and the elastic elongation are divided into two roughly equal parts for weak types; the permanent elongation increases with the type of belt because of the greater crimping of the constituent fabrics.

For metal belts the elongation consists of approximately 1/5th permanent elongation and 4/5ths elastic elongation.

Tension travel to be provided for according to the belt family (see table on following page).

On conveyors with small centre distances, it is necessary to allow a minimum tension travel in order to be able to place the belt in endless configuration.

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The figures stated in our documents are mean approximate values for information but no specified or warranted values.

**Please note:** Before using the product in new areas of application which are not covered by the product information a Sempertans engineer *MUST* be asked for advice. Stocking, care and maintenance of all our products must be performed according to our stocking, care and maintenance guidelines and according to ISO 5285 standard ;

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**Tension travel (continued)**

Belt family	Min. tension travel as percentage of conveyor centre distance
<b>Textile belts</b>	
• TRANSPLY	1.5 % of centre distance with a minimum of 0.3 m
• MULTIPLY	1.5 % of centre distance with a minimum of 0.3 m
• MULTITRANS / EP	1.5 % of centre distance with a minimum of 0.3 m
• PP POLYAMIDE	dcentre distance < 50 m      3 % of centre distance with a minimum of 0.6 m centre distance 50 m to 300 m      2.5 % of centre distance centre distance > 300 m      1.5 % of centre distance
• BIATHLON	1.5 % of centre distance with a minimum of 0.3 m
• TRIATHLON	1.5 % of centre distance with a minimum of 0.3 m
• RIP-STOP	1.5 % of centre distance with a minimum of 0.3 m
• TRANSFLAM	1.5 % of centre distance with a minimum of 0.3 m
• TRANSTHERM	1.5 % of centre distance with a minimum of 0.3 m
• TRANSOIL	1.5 % of centre distance with a minimum of 0.3 m
• TRANSLEV EDG	1.5 % of centre distance with a minimum of 0.3 m
• TRANSLEV LPVH	1.5 % of centre distance with a minimum of 0.3 m
• TRANSPROFIL	1.5 % of centre distance with a minimum of 0.3 m
• TRANSUNIT	1.5 % of centre distance with a minimum of 0.3 m
• ROUGH TOP	1.5 % of centre distance with a minimum of 0.3 m
• TRANSGLIS	1.5 % of centre distance with a minimum of 0.3 m
• TRANSRIGID XST2	1.5 % of centre distance with a minimum of 0.3 m
<b>Metal belts</b>	
• METALCORD M	Type ≤ 1600 N/mm      0.5 % of centre distance with a minimum of 0.3 m Type 1800 and 2000 N/mm      0.35 % of centre distance with a minimum of 0.3 m
• METALCORD E	0.25 % of centre distance with a minimum of 0.3 m
• METALTRANS M	Type ≤ 1600 N/mm      0.5 % of centre distance with a minimum of 0.3 m Type 1800 and 2000 N/mm      0.35 % of centre distance with a minimum of 0.3 m
• METALTRANS E	0.25 % of centre distance with a minimum of 0.3 m
• AUTOSTABLE M	Type ≤ 1600 N/mm      0.5 % of centre distance with a minimum of 0.3 m Type 1800 and 2000 N/mm      0.35 % of centre distance with a minimum of 0.3 m
• ST STEELCORD	0.25 % of centre distance with a minimum of 0.6 m for centre distance < 200 m 0.25 % of centre distance with a minimum of 1.5 m for centre distance > 200 m
• TRANSTHERM MWH	0.5 % of centre distance with a minimum of 0.3 m
• TRANSLEV LPM	0.3 % of centre distance with a minimum of 0.3 m
• TRANSRIGID XMM	0.5 % of centre distance with a minimum of 0.3 m

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