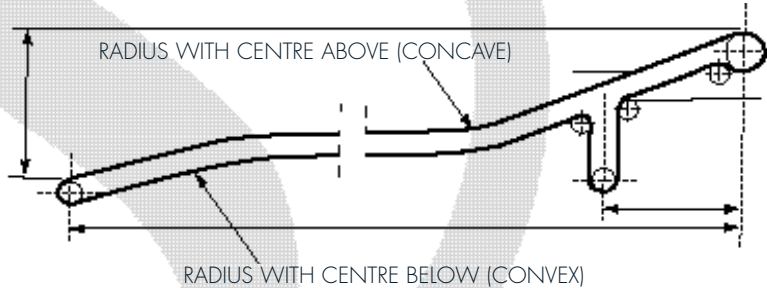


## RADIUS OF CURVATURE



The approximate values which can be used to determine the radius of curvature are indicated below.

**Note 1:** For convex radius (centre below), it is recommended to reduce the trough angle by 5 to 10° and eliminate any pinching of the rollers in this area.

**Note 2:** For concave radius (centre above), it is generally the empty belt non-lifting conditions which determine the minimum radius values.

Textile belts: TRANSPLY, MULTIPLY, MULTITRANS, EP, PP POLYAMIDE, BIATHLON, TRIATHLON, RIP-STOP, TRANSFLAM, TRANSTHERM, TRANSOIL, TRANSPROFIL		
Approximate values for minimum radius of curvature in mm		
TROUGH ANGLE (degrees)	CONCAVE CURVE Centre above	CONVEX CURVE Centre below
20°	13 x l	15 x l
25°	15 x l	18 x l
30°	20 x l	23 x l
35°	26 x l	29 x l
40°	32 x l	35 x l
45°	38 x l	41 x l

l : width of belt

To determine radius of convex curvature, it must be checked that the difference in tension between the centre and the edges does not exceed 0.8 %.

TECHNICAL INFORMATION

**IMPORTANT NOTICE:** This brochure has been prepared carefully, to advise our customers. The information stated therein is state of the art and the results of different tests carried out over several years. Individual operating conditions affect any product, which means that a product can only offer the safety that can be expected on the basis of the data provided in our product information. In the event that the product is used otherwise than in conformity with the specifications, such safety may not be assumed. Our responsibility is limited exclusively to delivery of the conveyor belt in accordance with the specifications.

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 Sempertrans 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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M cord metal belts: METALCORD M, METALTRANS M, TRANSTHERM MWH, AUTOSTABLE M		
Approximate values for minimum radius of curvature in mm		
TROUGH ANGLE (degrees)	CONCAVE CURVE Centre above	CONVEX CURVE Centre below
20°	20 x l	25 x l
25°	25 x l	30 x l
30°	35 x l	40 x l
35°	45 x l	50 x l
40°	55 x l	60 x l
45°	65 x l	70 x l

l : width of belt

E cord metal belts: METALCORD E, METALTRANS E		
Approximate values for minimum radius of curvature in mm		
TROUGH ANGLE (degrees)	CONCAVE CURVE Centre above	CONVEX CURVE Centre below
20°	40 x l	35 x l
25°	50 x l	40 x l
30°	60 x l	60 x l
35°	70 x l	70 x l
40°	80 x l	80 x l
45°	90 x l	90 x l

l : width of belt

ST STEELCORD / SEMPERCORD metal belts		
Approximate values for minimum radius of curvature in mm		
TROUGH ANGLE (degrees)	CONCAVE CURVE Centre above	CONVEX CURVE Centre below
25°	52 x l	64 x l
30°	77 x l	77 x l
35°	90 x l	90 x l
40°	103 x l	103 x l
45°	115 x l	115 x l

l : width of belt

To determine radius of convex curvature, it must be checked that the difference in tension between the centre and the edges does not exceed 0.2 %.

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