

## APPLICATION

BRECO and BRECOFLEX timing belts have been very successful in solving conveying applications. Meshing of pulleys and belt teeth guarantee accurate drive forces. Steel cord tension members allow the transmission of high loads without post elongation. The belts are constructed of polyurethane, which has excellent properties with regards to abrasion and coefficient of friction.

To support the timing belt and the product to be conveyed, slider beds are to be provided. Depending on the functional requirements, slider beds are available with and without edge guiding.

Slider beds are available as standard accessory items based on the various belt widths. Standard sections are 2000 mm long. Longer lengths are also available.

## MATERIAL

The slider beds are constructed of UHMW. This material is abrasion resistant and, at the same time, has a low coefficient of friction. The dynamic coefficient in relation to BRECOFLEX timing belts is:

Standard Polyurethane  $\mu = .3$  approx.

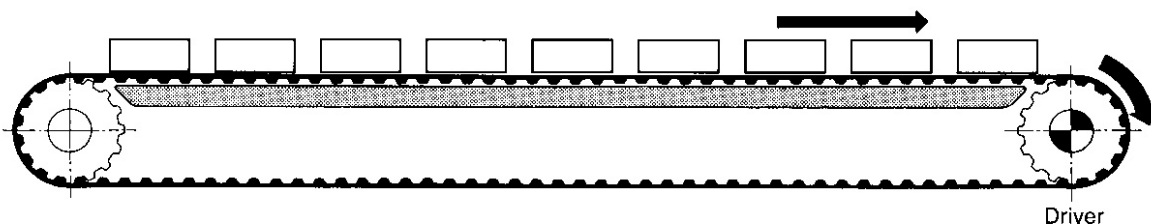
The C-section profile is constructed of zinc plated steel. A rectangular slot is provided to facilitate the use of mounting screws. The C-section profile is to be provided with mounting holes by the customer.

## INSTALLATION HINTS

Because of the relatively high coefficient of thermal expansion of UHMW, expansion slots have to be provided in the slider bed design, which should be cut at an angle of less than  $30^\circ$ . The slider bed should be attached to the C-section steel profile at one end to allow for expansion of the plastic material.

As a rule of thumb, the linear expansion of UHMW is 2 mm over a length of 1000 mm at a temperature variation of  $10^\circ\text{C}$ .

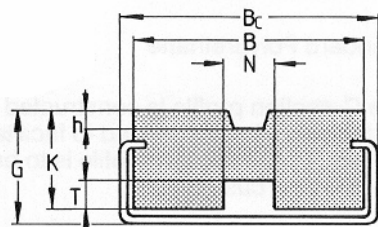
## CONVEYOR SYSTEM WITH TIMING BELT



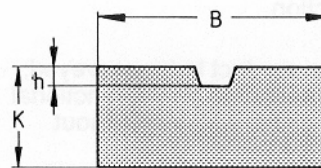
# SLIDER BEDS

## Slider Beds for Self-tracking Belts

Slider beds with V-groove are used in combination with self-tracking belts. Please consult BRECOflex catalog on self-tracking belts.



Type KC

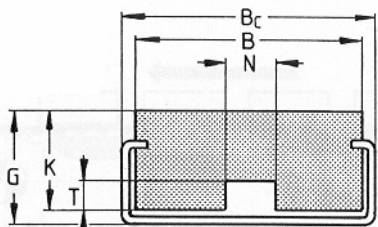


Type K

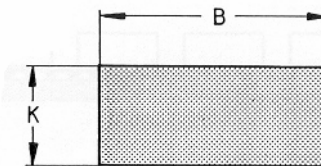
Part Numbers		B	Bc	N	T	K	G	h	Recommended for Self-tracking belts		
Type KC	Type K	mm	mm	mm	mm	mm	mm	mm			
KC 32 x 4	K 32 x 4	45	50	11	7	22	23.5	4	32 ATK5	32 TK5	
KC 50 x 4	K 50 x 4	68	75	14	9	32	34.5	4	50 ATK5	50 TK5	
KC 32 x 4.5	K 32 x 4.5	45	50	11	7	22	23.5	4.5	32 ATK10	32 TK10	
KC 50 x 4.5	K 50 x 4.5	68	75	14	9	32	34.5	4.5	50 ATK10	50 TK10	50.8 HK
KC 75 x 4.5	K 75 x 4.5	93	100	14	9	32	34.5	4.5	75 ATK10	75 TK10	76.7 HK
KC 100 x 4.5	K 100 x 4.5	118	125	14	9	32	34.5	4.5	100 ATK10	100 TK10	101.6 HK
KC 50 x 2	K 50 x 2	68	75	14	9	32	34.5	2	50 ATK20	50 TK20	
KC 75 x 2	K 75 x 2	93	100	14	9	32	34.5	2	75 ATK20	75 TK20	
KC 100 x 2	K 100 x 2	118	125	14	9	32	34.5	2	100 ATK20	100 TK20	

## Slider Beds Without Edge Guiding

Slider beds without edge guiding can be used with all our polyurethane timing belts. They are recommended for all conveying applications with minimal side loads.



Type GC

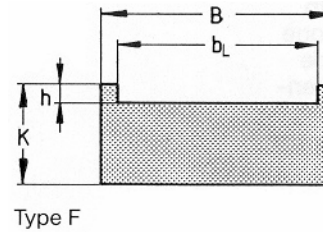
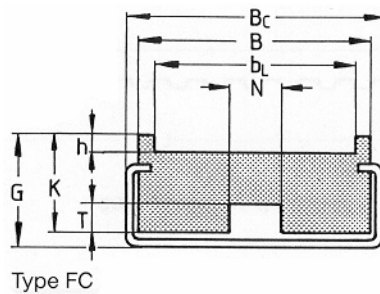


Type G

Part Numbers		B	Bc	N	T	K	G	Recommended For Belt Width	
Type GC	Type G	mm	mm	mm	mm	mm	mm		
GC 32	G 32	45	50	11	7	22	23.5	32	
GC 50	G 50	68	75	14	9	32	34.5	50 / 50.8	
GC 75	G 75	93	100	14	9	32	34.5	75 / 76.2	
GC 100	G 100	118	125	14	9	32	34.5	100 / 101.6	

## Slider Beds With Edge Guiding

Slider beds with edge guides are recommended for applications where the timing belt conveyor must be guided due to side thrusts.



Part Numbers		B	Bc	bL	N	T	K	G	h	Recommended for
Type FC	Type F	mm	mm	mm	mm	mm	mm	mm	mm	Self-tracking belts
FC 32 x2	F 32 x2	45	50	33	11	7	22	23.5	2	32 AT5    32 T5
FC 50 x2	F 50 x2	68	75	51	14	9	32	34.5	2	50 AT5    50 T5
FC 75 x2	F 75 x2	93	100	46	14	9	32	34.5	2	75 AT5    75 T5
FC 100 x2	F 100 x2	118	125	101	14	9	32	34.5	2	100 AT5    100 T5
FC 51 x3	F 51 x3	68	75	52	14	9	32	34.5	3	50.8 T3/8"
FC 76 x3	F 76 x3	93	100	77	14	9	32	34.5	3	76.2 T3/8"
FC 101 x3	F 101 x3	118	125	103	14	9	32	34.5	3	101.6 T3/8"
FC 51 x3.5	F 51 x3.5	68	75	52	14	9	32	34.5	3.5	50.8 T1/2"
FC 76 x3.5	F 76 x3.5	93	100	77	14	9	32	34.5	3.5	76.2 T1/2"
FC 101 x3.5	F 101 x3.5	118	125	103	14	9	32	34.5	3.5	101.6 T1/2"
FC 32 x4	F 32 x4	45	50	33	14	7	22	23.5	4	32 AT10    32 T10
FC 50 x4	F 50 x4	68	75	51	14	9	32	34.5	4	50 AT10    50 T10
FC 75 x4	F 75 x4	93	100	76	14	9	32	34.5	4	75 AT10    75 T10
FC 100 x4	F 100 x4	118	125	101	14	9	32	34.5	4	100 AT10    100 T10
FC 50 x7	F 50 x7	68	75	51	14	9	32	34.5	7	50 AT20    50 T20
FC 75 x7	F 75 x7	93	100	76	14	9	32	34.5	7	75 AT20    75 T20
FC 100 x7	F 100 x7	118	125	101	14	9	32	34.5	7	100 AT20    100 T20