# A. Installation of plastic slide rail and support rail

### About slide rail

The slide rail is attached to the sides of the conveyor beam to reduce chain friction where the chain would otherwise be in direct contact with the beam profile. It is very important that the slide rail is installed properly, so that the chain can run without disruption.

When the conveyor is to be mounted high above ground level, it might be easier to mount the slide rail onto a conveyor section while the conveyor beam is still on the floor. If doing so, leave an extra end, approximately 300 mm longer than the beam, so that it can be cut off and adjusted when the beam is finally installed.

#### Characteristics

Slide rails are available in several materials, each with different characteristics:

The coefficient of friction is normally closer to the lower value at startup of a new conveyor. It will increase as the contact surfaces are wearing in. Lubricants will reduce the coefficient of friction.

#### Considerations when selecting slide rail

Each of the slide rails has its own characteristics and is suitable for different types of applications.

Slide rails made of HDPE or PA-PE are suitable for most standard applications. PA-PE has higher wear resistance but should not be used in wet environments.

In environments where high resistance to chemicals is important. PVDF slide rails are recommended.

Hardened steel slide rails in combination with PVDF slide rails in bends can be a good combination where larger particles such as chip occur.

UHMW-PE has the highest wear resistance and can be recommended in applications with accumulation, transport of heavy parts, high speed, abrasive particles or requirements on low dust generation.

#### Plain bends

The contact pressure between the chain and the slide rail is very high in the inner bend of plain bends. It is important to use the PVDF slide at this location if the speed is high as there will be increased temperatures that may cause melting of other slide rails. This, however, will result in somewhat higher wear on the chain. X70

X70X X85X

X180X

WL 222X

WL 273X

WL

374X

WL 526X

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WL

678X

CSX

GRX

FSTX

TR

APX

IDX

Slide rail type	XSCR 25 XLCR 25 XBCR 25	XBCR 25 P XSCR 25 P XLCR 25 P XWCR 25 P	XBCR 25H XLCR 25 H	XSCR 25 U XLCR 25 U XKCR 25 U XWCR 25 U XBCR 3 UA	XLCR 25 E XBCR 25 E XBCR 25 EB XBCR 3 EA	XLCR 3 TA	XLCR 3 TH XKCR 3 TH XKCR W TH
Material	HDPE High density pol- yethylene	PVDF Polyvinylidene fluoride	PA-PE Polyamide-poly- ethylene	UHMW-PE Ultra-high molecular weight polyethylene	UHMW-PE Carbon filled ultra-high molec- ular weight poly- ethylene	SS Stainless steel	 Hardened steel
Friction coefficient	0,1–0,25	0,15–0,35	0,1–0,30	0,1–0,25	0,15–0,30	0,15–0,35	0,15–0,35
Application information	-40 to +60 °C Standard appli- cations	-40 to +100 °C High resistance to chemicals (see table in the Product cata- logue) Accumulation Transport of heavy parts High speed Abrasive parti- cles	-40 to +80 °C Accumulation Transport of heavy parts High speed Abrasive non- metal particles	-40 to +60 °C High wear resist- ance Clean environ- ment Low dust and particle genera- tion	-40 to +60 °C Reduces static electricity Relatively low dust and particle generation	Abrasive parti- cles High resistance to chemicals	Abrasive parti- cles such as metal chips from milling and grind- ing processes
Advantages	Good standard Easy to mount	Chemical and heat resistant Low elongation More resistant to chemicals	Good wear and heat resistance	Easy to mount Low wear out Minimum of par- ticles	High conductivity Fast discharge Easy to mount	No elongation High resistance to chemicals and abrasive parti- cles. Heat resistant Low wear out	No elongation Very high resist- ance to abrasive particles Heat resistant Low wear out
Disadvan- tages	Poor resistance to solvents (petroleum, white spirit) Limited tempera- ture range Wear out at heavy accumula- tion	Higher friction More difficult to mount	Should not be used in wet applications	Limited tempera- ture range Higher elonga- tion	Some particle generation may occur	Difficult to mount, with only straight lengths High friction Generates parti- cles in dry envi- ronments	Special mount- ing procedure High friction Generates parti- cles in dry envi- ronments
Colour	Black	Natural white	Grey	White	Black	Natural	Natural
Suitable application areas	All industries Medium speed Medium load	Greasy environ- ments Water (washing machines) Chemicals High load Heat resistant	High speed High load	All types of clean production	Environments sensitive to static electricity	High load Heat/cold	Aggressive parti- cles High load Heat/cold

## Example of available slide rail types