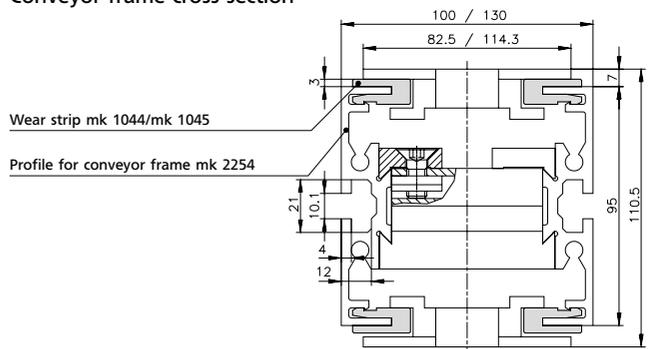


Flat Top Chain Conveyors SBF-P 2254



Conveyor frame cross-section





The modular mk flat top chain conveyor system SBF-P 2254 is ideal for product handling in either stand-alone or integrated applications. Applications can be found in the packaging, manufacturing, bottling, glass, food, medical and pharmaceutical industries. Conveyors can be manufactured quickly and economically using the various individual components. Due to

their modular construction, later reconfigurations necessitated by product or production changes can be accomplished with relatively little effort. The system is available in two standard widths and can accept chain from a variety of suppliers. Conveyor frames are manufactured using our Profile mk 2254 which features a 10 mm T-slot. Accessories such as side rails, stands, etc.

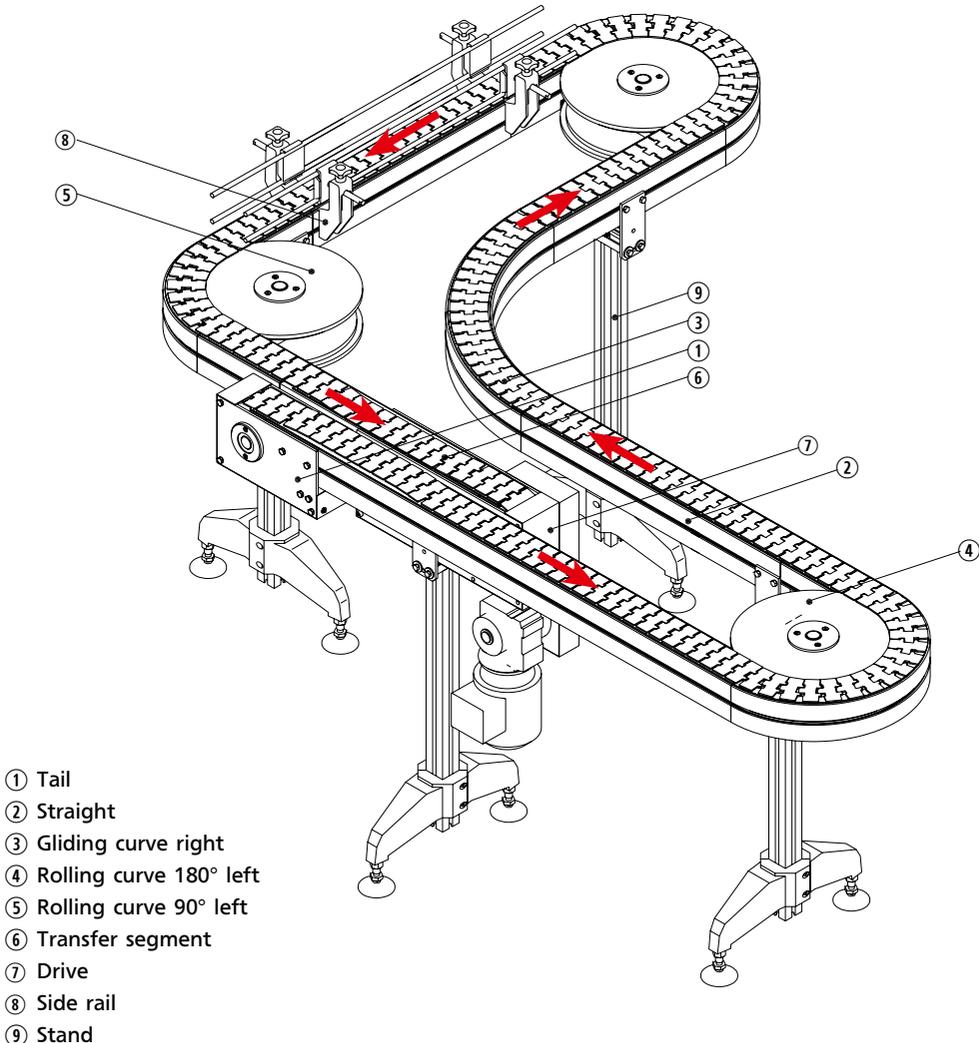
can be easily mounted to the conveyor at any time. The chain is completely guided using wear strips on the running side as well as the return. A special feature of the modular design is the use of individual subassemblies. Components designed specifically for this conveyor system ensure a simple and quick assembly of the individual elements into a complex material handling system.

SBF-P 2254

Ordering instructions

Various factors need to be considered when configuring flat top chain conveyors. The total belt length, as well as the number of curves, the product to be conveyed, the conveyor environment, the product weight and the line speed all influence the motor power requirement. Motors

will be specified by mk depending on the above factors for each specific application. For systems which are to be completely installed by mk, please note that the direction (left/right) for the drive, transfer segments and curves must be defined in the direction in which the conveyor runs, i.e. towards the drive.



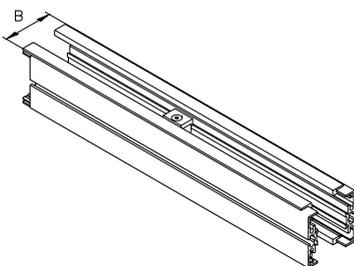
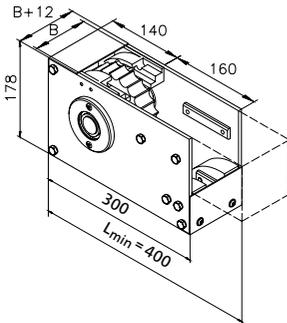
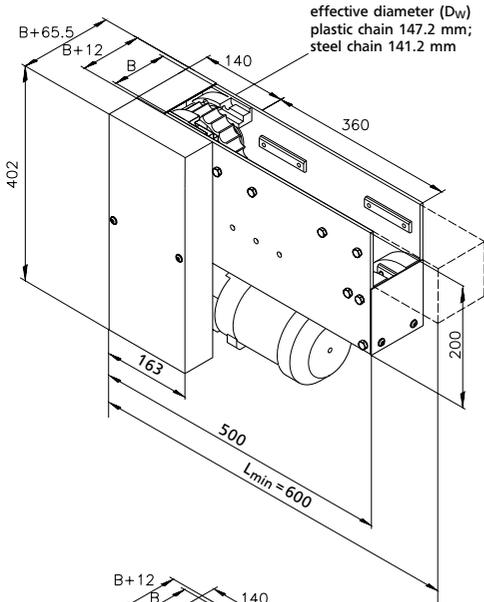
Order example

Name	Details	Ident-No.
Tail		B80.00.409
Transfer segment	left	B37.00.002
Straight L1	670 mm	B08.00.409
Rolling curve 180°	left	B36.00.428
Straight L2	700 mm	B08.00.409
Gliding curve 90°	(R = 500 mm) right	B36.00.414
Straight L3	380 mm	B08.00.409
Rolling curve 180°	left	B36.00.428
Straight L4	700 mm	B08.00.409
Rolling curve 90°	left	B36.00.428
Transfer segment	right	B37.00.002
Drive	head/left 230/400 VAC, 50 Hz speed 20-100 ft/min Reglomats frame width 100 mm	B01.00.409
Side rail	SF10.1	B17.00.020
4 x Stands	System 52.5 (H = 700 mm)	B67.05.008
Chain		K114510031

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Module overview

The modules can only be ordered as spare parts and are not suited for building a complete solution yourself.



Drive AC

The motor can be located on the left (as shown) or right side. Motor power requirements typically vary between 1/3 - 3/4 Hp. Line speeds of about 8 - 40 m/min (130 fpm) are possible. Speeds less than 8 m/min. can cause the chain to not run smoothly. In the range of $L_{min} = 600$ mm, only straight lane elements may be used.

Width B	Chain width B1	Type	Ident-no.
100 mm	82.5 mm	sideflexing	B01.00.409*
130 mm	114.3 mm	sideflexing	B01.00.410*

*without profiles and chain

Tail

The tail, consisting of aluminum side plates and stainless steel covers, guides the belt precisely onto the running surface using high quality belt returns. In the range of $L_{min} = 400$ mm, only straight lane elements may be used.

Width B	Chain width B1	Type	Ident-no.
100 mm	82.5 mm	sideflexing	B80.00.409*
130 mm	114.3 mm	sideflexing	B80.00.410*

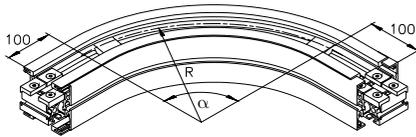
*without profiles and chain

Straight

Manufactured using our Profile mk 2254, the conveyor frame is extremely rigid. The belt is guided above and below using standard mk UHMW wear strips.

Width B	Chain width B1	Ident-no.
100 mm	82.5 mm	B08.00.409*
130 mm	114.3 mm	B08.00.410*

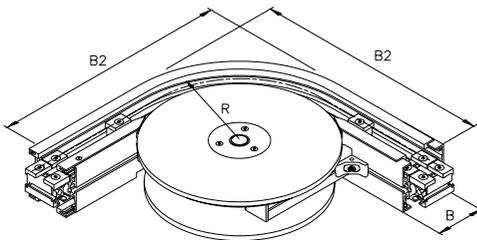
*Assemblies with connecting elements, less chain and less wear strip



Gliding curve

The chain is routed in the entire curve area in a high-quality wear strip of PE 1000. The dimensioning of the wear strip guarantees secure run of the chain. This results in long conveyor service life. Sliding curves are mainly used in short conveyor systems, with minimal loads and low speeds.

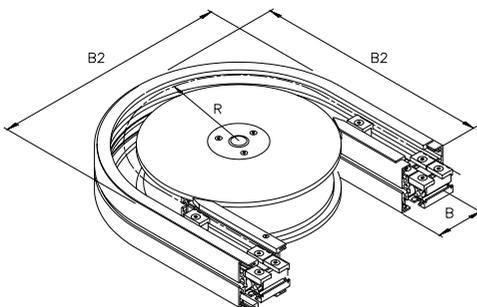
Width B	Chain width B1	R	Ident-no.
100 mm	82.5 mm	300 mm	B36.00.416*
100 mm	82.5 mm	500 mm	B36.00.414*
130 mm	114.3 mm	300 mm	B36.00.417*
130 mm	114.3 mm	610 mm	B36.00.415*



Rolling curve 90°

Designed using idler disks, the rolling curves significantly reduce the friction and tensile forces on the belt. As such, they are used where longer conveyor lengths, higher loads and higher speeds are required.

Width B	Chain width B1	B2	R	Ident-no.
100 mm	82.5 mm	500 mm	200 mm	B36.00.428*
130 mm	114.3 mm	530 mm	200 mm	B36.00.429*



Rolling curve 180°

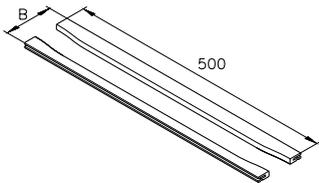
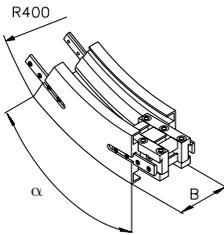
Designed using idler disks, the rolling curves significantly reduce the friction and tensile forces on the belt. As such, they are used where longer conveyor lengths, higher loads and higher speeds are required.

Width B	Chain width B1	B2	R	Ident-no.
100 mm	82.5 mm	500 mm	200 mm	B36.00.430*
130 mm	114.3 mm	530 mm	200 mm	B36.00.431*

*Assemblies with connecting elements, less chain and less wear strip

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Module overview



Vertical bend

The vertical bend is designed for elevation changes. Depending on the product, we recommend cleated belts to prevent product slippage. As is also the case in the curve segments, wear strips guarantee low friction and safe running of the chain.

Width B	Chain width B1	Type	Ident-no.
100 mm	82.5 mm	15°	B36.00.434*
100 mm	82.5 mm	30°	B36.00.435*
100 mm	82.5 mm	45°	B36.00.436*
130 mm	114.3 mm	15°	B36.00.438*
130 mm	114.3 mm	30°	B36.00.439*
130 mm	114.3 mm	45°	B36.00.440*

*Assemblies with connecting elements, less chain

Transfer segment

Using the transfer segment, products can be moved between conveyors on parallel lanes. With the precise guides and minimal gap, products remain very stable during transfer.

Width B	Chain width B1	Type	Ident-no.
100 mm	82.5 mm	500 mm	B37.00.002
130 mm	114.3 mm	500 mm	B37.00.003

Wear strips section

The wear strips from mk are made of polyethylene (PE 1000) and ensure low friction and safe run of the flat top chain. This results in long conveyor service life.

Width B	Chain width B1	Type	Ident-no.
100 mm	82.5 mm	2000 mm	22.44.2000
130 mm	114.3 mm	2000 mm	22.45.2000

Flat top chains

The flat top chains shown in the tables below are our normal standards. All represented chains are FDA-compliant. Plastics are not suitable for sharp-edged products or for cleaning with phosphoric acid/nitric acid. More accurate than by the permissible operating power, the right chain is selected at mk for each application individually using a chain calculation program which takes into account conveyor length, chain speed, dynamic pressure, lubrication, product type and weight. Other belts and materials are available.

Plastic Chains	Description	Ident-no.	Frame width [mm]	Chain width [mm]	R min [mm]	max. belt strength [N]	Material	Degree of hardness cleat	
	LF 880 TAB-BO-K325	K114510031	100	82.5	200	1680	POM brown		
	LF 880 TAB-K325	K114510030	100	82.5	500	2100	POM brown		
	LF 880 TAB-BO-K450	K114510090	130	114.3	200	1680	POM brown		
	LF 880 TAB-K450	K114510085	130	114.3	500	2100	POM brown		
	WLF 880 TAB-BO-K325	K114510048	100	82.5	200	1680	POM white		
	WLF 880 TAB-BO-K450	K114510091	130	114.3	200	1680	POM white		
	with Cleats (not suitable for accumulated operating or side-discharge)								
	HFP 880 TAB-BOT-K325	K114510044	100	82,5	200	1680	POM brown	60 shore A	
	HFP 879 TAB-BO-K450	K114510094	130	114,3	200	2100	POM brown	60 shore A	
Steel chains	Description	Ident-no.	Frame width [mm]	Chain width [mm]	R min [mm]	max. belt strength [N]	Material		
	S 881 TAB-K325	K114510047	100	82.5	500	8350	Carbon steel hardened		
	S 881 TAB-K450	K114510063	130	114.3	610	8350	Carbon steel hardened		
	SSR 8811 TAB-BO-K325	K114510022	100	82.5	200	4500	Stainless steel		
	SSC 8811 TAB-K450	K114510062	130	114.3	500	6000	Stainless steel		