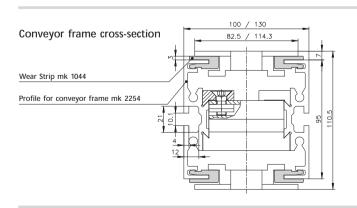
Flat Top Chain Conveyors SBF-P 2254















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.

Flat Top Chain Conveyors SBF-P 2254

Drive Version AC





Contents SBF-P 2254

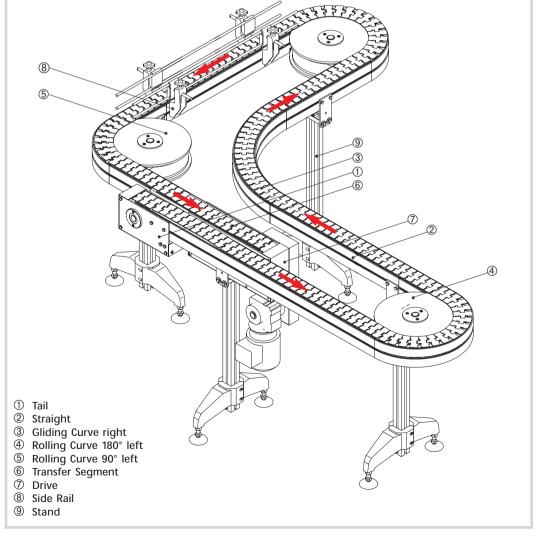
SBF-P 2254 AC - Head Drive -

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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

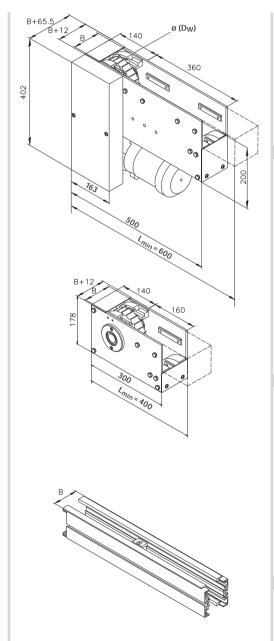
specified by mk depending on the above factors for each specific application. For systems which are to be completely installed by mk, please note that the direction (left/right) for the drive, transfer segments and curves must be defined in the direction in which the conveyor runs, i.e. towards the drive.





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 Frequency Inverter 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



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 run unevenly. In the range of L_{min} = 600 mm, only straight lane elements may be used.

Width B	Chain Width B1	Туре	Ident Nr.
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	Туре	Ident Nr.
100 mm	82,5 mm	sideflexing	B80.00.409*
130 mm	114,3 mm	sideflexing	B80.00.410*

^{*}without profiles and chain

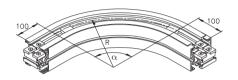
Straight

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

Width B	Chain Width B1	ldent Nr.
100 mm	82,5 mm	B08.00.409*
130 mm	114,3 mm	B08.00.410*

^{*}Assemblies with connecting elements, less chain

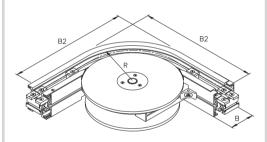




Gliding Curve

UHMW guides the belt throughout the entire curve. This ensures that the belting never contacts the frame profiles. Economical to use, these gliding curves are primarily used with shorter conveyors as their application is limited to lighter loads and lower speeds.

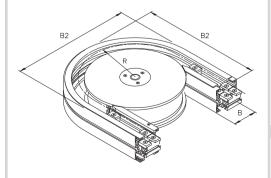
Width B	Chain Width B1	R	Ident Nr.
100 mm	82,5 mm	300 mm	B36.00.416*
100 mm	82,5 mm	500 mm	B36.00.414*
130 mm	114,3 mm	300 mm	B36.00.417*
130 mm	114,3 mm	610 mm	B36.00.415*



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	ldent Nr.
100 mm	82,5 mm	500 mm	200 mm	B36.00.428*
130 mm	114,3 mm	530 mm	200 mm	B36.00.429*

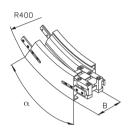


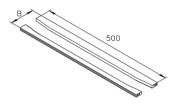
Rolling Curve 180°

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	ldent Nr.
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





Vertical Bend

The vertical bend is designed for elevation changes. Depending on the product, we recommend cleated belts to prevent product slippage. As with all conveyor assemblies, wear strips ensure no contact between belting and frame profiles.

Width B	Chain Width B1	Type	Ident Nr.
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*

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	L	ldent Nr.
100 mm	82,5 mm	500 mm	B37.00.002*
130 mm	114,3 mm	500 mm	B37.00.003*

^{*}Assemblies with connecting elements, less chain



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-Nr.	Frame width [mm]		R min [mm]	max. belt strength [N]	Material	Degree of hardness cleat
A LEE	LF 880 TAB-BO-K325 LF 880 TAB-K325 LF 880 TAB-BO-K450 LF 880 TAB-K450	K114510031 K114510030 K114510090 K114510085	100 100 130 130	82,5 82,5 114,3 114,3	200 500 200 500	1680 2100 1680 2100	POM brown POM brown POM brown POM brown	
-98h	WLF 880 TAB-BO-K325 WLF 880 TAB-K325 WLF 880 TAB-BO-K450 WLF 880 TAB-K450	K114510049	100 100 130 130	82,5 82,5 114,3 114,3	200 500 200 500	1680 2100 1680 2100	POM white POM white POM white POM white	
STATE OF THE PARTY	with Cleats (not suitab HFP 880 TAB-BOT-K325 HFP 880 TAB-BOT-K325 HFP 879 TAB-BO-K450 HFP 879 TAB-BO-K450	K114510045 K114510044 K114510093	100 100 100 130 130	82,5 82,5 82,5 114,3 114,3	or sid 200 200 200 200	,	ge) POM brown POM brown POM brown POM brown	60 shore A 45 shore A
Steel chains	Description	Ident-Nr.	Frame width [mm]		R min [mm]	max. belt strength [N]	Material	
The state of the s	SSR 8811 TAB-K325-8350N SSC 8811 TAB-K450-8350N SSR 8811 TAB-BO-K325 SSC 8811 TAB-K325 SSC 8811 TAB-K450 SSC 8811 TAB-K450-3500N	K114510047 K114510063 K114510022 K114510024 K114510062 K114510061	100 130 100 100 130 130	82,5 114,3 82,5 82,5 114,3 114,3	500 610 200 500 500 610	4500 6000 6000	Carbon steel ha Carbon steel ha Stainless steel Stainless steel Stainless steel Stainless steel	

Flat Top Chain Conveyors

Application Examples



180° Curve



Rolling Curve 180° with adjustable side rails



90° Curve with side rails

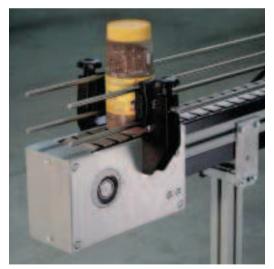




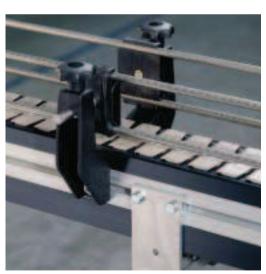


Stand 52.5

Transfer Segment with side rails



Tail



Standard side rails with width adjustment

Flat Top Chain Conveyors

Application Examples



Mini-roller insert for bridging gaps when conveying small products



Flat top chain with cleats



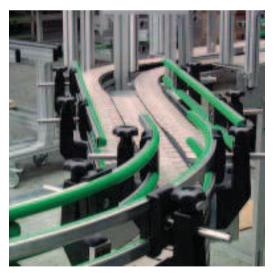
Section with small space requirements, e.g. for cooling the conveyed product





Transfer Segment with Steel Chain

Flat top chain with stainless steel conveyor frame for use in the food industry



Transfer Segments from two sides



Flat top chain with welded cleats

Flat Top Chain Conveyors

Application Examples



180° Curve



Short vertical bend for forming a storage area with several levels



Tail with side rails

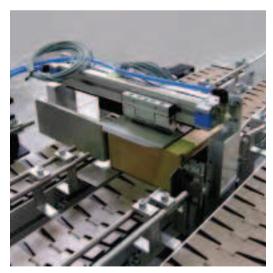






Curve with adjustable side rails

SBF-P 2254 tail and side rails



SBF-P 2254 with transfer pusher, e.g. for the packaging industry



Dual-lane flat top chain conveyors