

LCP CONVEYOR TRANSFER CONVEYOR

48V

400V



Product description

The Transfer Conveyor is part of the Interroll Light Conveyor Platform to convey goods in light industrial applications. The conveyor system includes the patented quick tension/release idler system for easy installation and change of the conveyor belt and other parts. The Interroll LCP Transfer Conveyor is available in a combination of three widths and one length. It is prepared for plug-and-play and designed to drive in the direction of the belt drive.

By default, the control will be on the right side in the direction of the moving objects; it can also be installed on the left side.

The leg system of the conveyor consists of steel profiles with adjustable feet. As a result, the transfer dimensions to adjacent modules are variably adjustable and the module can be adjusted for uneven floors.

The transfer conveyor is supplied with a belt with low surface friction to ensure the transported goods move well from the straight conveyor into the transfer. The belt is also supplied with a feature to ensure proper tracking when goods are moved at an angle onto the transfer. In addition a vertical corner roller and a customized bridge ensures even flow of the goods from conveyor to conveyor. The bridge and roller need to be mounted on the transfer conveyor by the customer. These products supports to guide conveying goods in the new direction (90°turn) and ensure conveying of smaller items. When integrating the transfer conveyor with other LCP straight conveyors, the straight conveyor should be slightly higher. As with all other LCP conveyors, the transfer conveyor can be delivered with or without side guides. The electrical kit including controller, cables and sensors are fully assembled.



Technical data

Transfer Conveyor	
General technical data	
Design	The transfer conveyor is designed to transfer the goods to a vertical straight conveyor. The belt has a special rubber driver, special slider bed and rollers to suit this purpose.
Dimensions of conveyed goods	VDA boxes, plastic bags <ul style="list-style-type: none"> • min. 80 x 80 x 20 mm • max. 600 x 600 x 600 mm
Conveyor load and belt speed	page 20
Incline/decline	0°
Ambient temperature	Operation: +5 to +40 °C
Humidity	93 %
Degree of cleanliness	Operating environment: IP22
Noise level	Leq < 60 db(A)
Belt drive and idler pulley	
Drive voltage	3 x 400 V/50 Hz 3 x 460 V/60 Hz
Speed	Belt drive speed is typically 5 % lower than belt speed
Power	85 -120 W
Ø Belt drive	90 mm
Ø Idler pulley	50 mm
Ø Support roller	50 mm
Materials	
Frame	2 mm hot-dipped coated galvanized steel
Support legs	3 mm powder coated steel
Side covers	Polymer
Cable channel covers	Polymer
Safety end covers	1.5 mm galvanized steel
Belt drive	Shell: tube with rubber lagging End housings and shaft caps: aluminum
Idler pulley	Shell: galvanized End housings and end caps: techno polymer
Belt	Belt for transfer conveyor: NNT-10ENBU, page 19 Other belt types available on request.

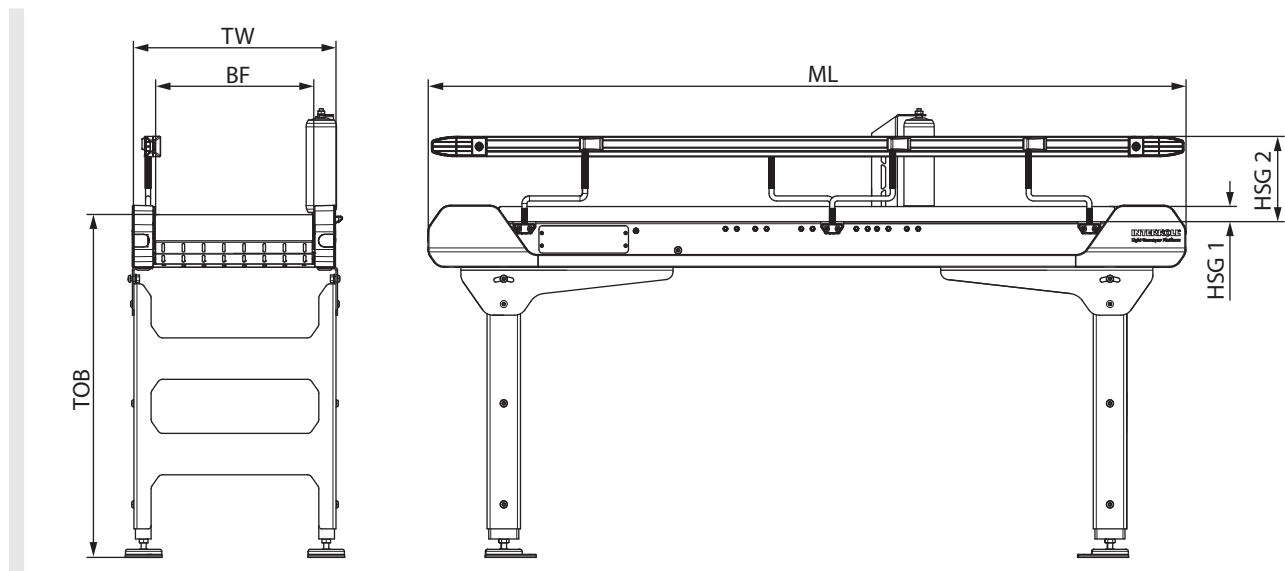
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Dimensions



BF	Rated width	320 / 420 / 620 mm
TOP	Top of belt	Min. 620 mm (650 mm with feet) Max. 1.700 mm (pay attention to compliance with regulations for higher use)
ML	Module length	1.500 mm
TW	Module width	406 / 506 / 706 mm
HSG 1	Side guide height	fix: 30 mm
HSG 2		adjustable: 100 mm

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Belt types

Model	NHM-8EKBV 11 Standard	ENI-5EE ESD	NNT-10ENBU Low friction	UM100SC-B 18 Cut - Oil - Hot	NSL-7EEBV Grip
Main industry	<ul style="list-style-type: none"> Materials handling 	<ul style="list-style-type: none"> Electronics Paper manufacturing Paper printing Plastics 	<ul style="list-style-type: none"> Distribution centers General conveying 	<ul style="list-style-type: none"> Electronics Airport Automotive Metal components Plastics 	<ul style="list-style-type: none"> Distribution centers General conveying
Applications	<ul style="list-style-type: none"> Check-out belt Line belt Power turn belt 	<ul style="list-style-type: none"> Accumulation belt Infeed belt Inspection belt Processing belt Transfer belt 	<ul style="list-style-type: none"> Accumulation belt Merge belt Packaging belt Transfer belt 	<ul style="list-style-type: none"> Accumulation belt Blanking belt Infeed belt Diverting belt Light package handling Magnetic conveyor belt 	<ul style="list-style-type: none"> Acceleration belt Decline/Incline belt Feeder belt Inserting belt Sorting belt
Features	<ul style="list-style-type: none"> Flexibility Antistatic 	<ul style="list-style-type: none"> Highly abrasion resistant Antistatic Cut resistant 	<ul style="list-style-type: none"> Abrasion resistant Antistatic Low friction Low noise 	<ul style="list-style-type: none"> Chemical resistant Oil & water resistant Cut & wear resistant Impact resistant 	<ul style="list-style-type: none"> Antistatic High coefficient of friction
Construction / design					
Conveying side material	Polyvinyl chloride (PVC)	Polyurethane X-linked	Polyester (PET)	Polyester (PET) fleece	Polyvinyl chloride (PVC)
Conveying side color	Black	Black	Black	Black	Grey
Number of fabrics	2	2	2	1	2
Pulley side material	Polyester (PET)	Polyurethane X-linked	Polyester (PET)	Polyester (PET) fleece	Polyester (PET)
Characteristics					
Antistatically equipped	Yes	Yes - EN 12882	Yes	Yes - EN 12882	Yes
Flammability	No prevention property	No prevention property	Classified according to UL 94HB (USA)	No prevention property	Classified according to UL 94HB (USA)
Technical data					
Thickness	1.9 mm	1.2 mm	2.1 mm	2.5 mm	2.5 mm
Mass	2.1 kg/m ²	1.2 kg/m ²	2.3 kg/m ²	1.9 kg/m ²	2.7 kg/m ²
k1% static	8 N/mm	6.0 N/mm	9.5 N/mm	20 N/mm	10 N/mm
k1% relaxed	6 N/mm	4.2 N/mm	6 N/mm	7.7 N/mm	6.5 N/mm
Operating temperature	-10 to 70 °C	-30 to 80 °C	-20 to 80 °C	-10 to 80 °C	-10 to 60 °C
Joining method					
Low noise application	No	No	Yes	Yes	Yes
Suitable for metal detector	Yes	No	No	No	Yes

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Conveyor load and speed

Rated velocity v_{belt} [m/s]	0.12	0.14	0.18	0.19	0.21	0.26	0.28	0.32	0.45	0.71	0.85	1.03
Max. load on transfer [kg]	50	50	50	50	50	50	50	50	50	25	25	25

The belt drives for the transfer conveyors are manufactured with 5 mm thick rubber insulation with a center V-groove to adapt to the belt profile. This thickness causes higher belt speed.