

LOGI INTERNAL SYSTEMS STIC



Conveyor Modulars

Belt Conveyor

OVERVIEW

The belt conveyor is used for horizontal conveying of goods that are not suitable for roller conveyors and all kinds of unit loads where inclines and declines (up to 16°) need to be conquered. Powered by highly efficient, compact **drum motors** or, alternatively, by gear motors, this new family of belt conveyors is available in three standard widths and also comes as “light” versions, equipped with 24V drive technology, for transport and ZPA operation of unit loads with low weight.

Our compact yet robust belt conveyor is a proven product which is very reliable and easy to install. Idea for handling most light and medium weight products. They have a very narrow profile and are especially suitable for use in production lines where space is limited. Our conveyors are built using standard modules which enables us to quickly build a conveyor to your specification.



Available Types of Belt Conveyor

1. 415 VAC Belt Conveyor
 - A). Full Skid Belt Conveyor
 - B). Lo-Fri Belt Conveyor
2. 24 VDC Belt Conveyor
3. 24 VDC / 415 VAC Merge Belt Conveyor
4. 415 VAC Inclined Conveyor
5. 24 VDC / 415 VAC Curve Belt Conveyor

Belt Conveyor

**415 VAC
BELT CONVEYOR**

CENTRE DRIVE
STRAIGHT BELT



Product Description

The belt conveyor is used for the transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

The standard belt conveyor is equipped with a drum motor, a gear motor is available as an option.

NOTE:

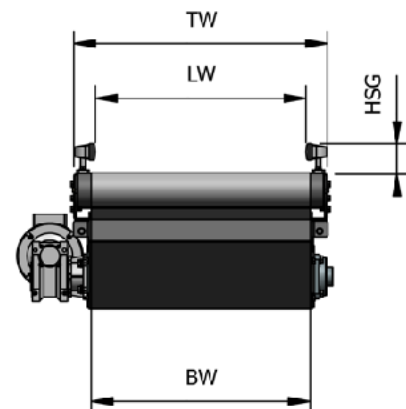
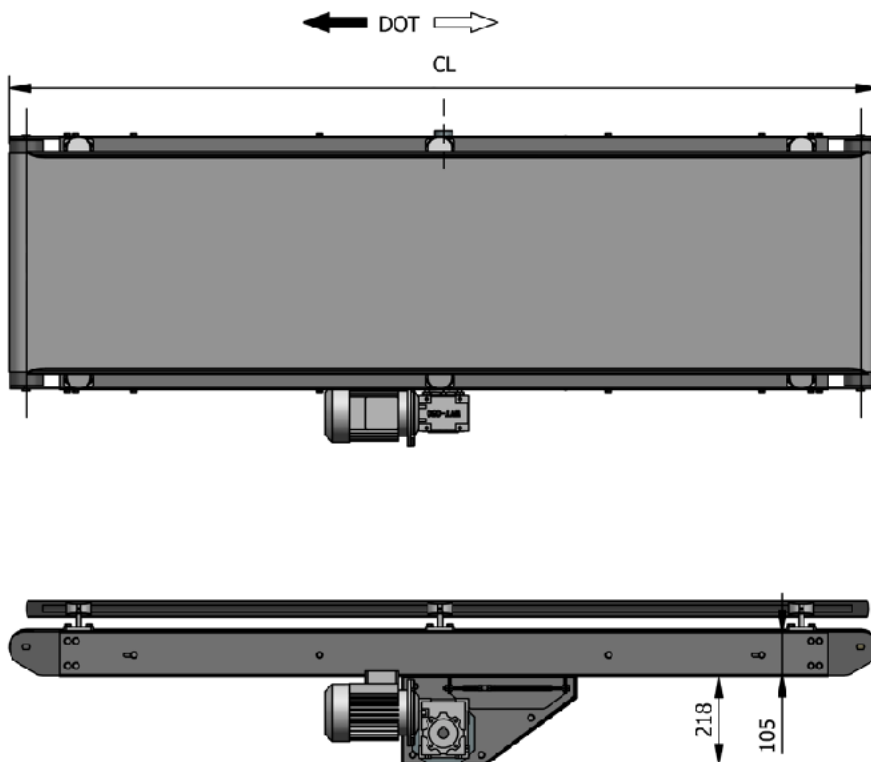
Not suitable for reversing operation.

Belt Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/m
	Max. load capacity per module*	550 kgs
	Conveyor Speed	0.1 to 2.5 m/s
	Inclined / Declined	Max 28°
	Ambient Temperature	+5 °C to 40 °C (Drum Motor) -5 °C to 50 °C (Geared Motor)
Drive	Rated Voltage	415 VAC
	Electric Power	3.7 kW max.
	Motor Type	Drum Motor / Geared Motor
Materials	Conveyor Belt	PVC Belt 2 mm thickness
	Slider Roller	Mild Steel / Stainless Steel

Dimensions



Belt Conveyor

415 VAC
INCLINED CONVEYOR
Z - TYPE CONVEYOR
SERIES



Product Description

The belt conveyor is used for the transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

The standard belt conveyor is equipped with a drum motor, a gear motor is available as an option.

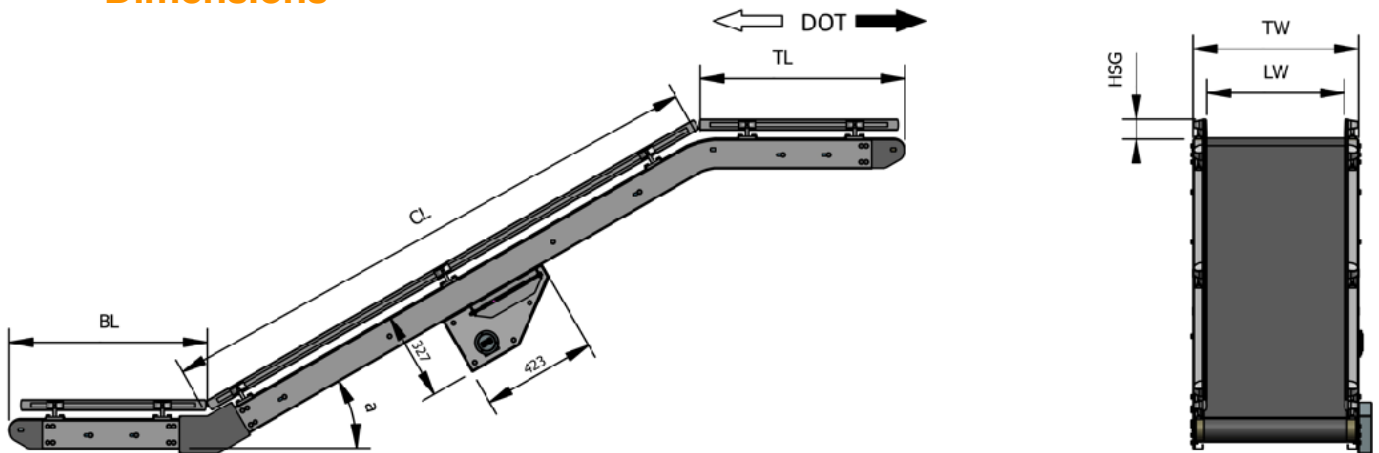
NOTE: Not suitable for reversing operation.

Belt Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/m
	Max. load capacity per module*	550 kgs
	Conveyor Speed	0.1 to 2.5 m/s
	Inclined / Declined	Max 28°
Drive	Ambient Temperature	+5 °C to 40 °C (Drum Motor) -5 °C to 50 °C (Geared Motor)
	Rated Voltage	415 VAC
	Electric Power	3.7 kW max.
	Motor Type	Drum Motor / Geared Motor
Materials	Conveyor Belt	PVC Belt 2 mm thickness
	Slider Roller	Mild Steel / Stainless Steel

Dimensions



BF	Between Frame	450, 600, 800 Others on demand
LW	Lane Width	BF
CL	Modular Length	650 - 3000 mm
TW	Modular Width	BF + 80 mm
HSG	Height of Side Guard	35 - 65 mm
ANGLE	Inclined/Declined Angle	6°, 9°, 12°, 15°, 18°, 25°, 28°

Belt Conveyor

MERGE BELT CONVEYOR



Product Description

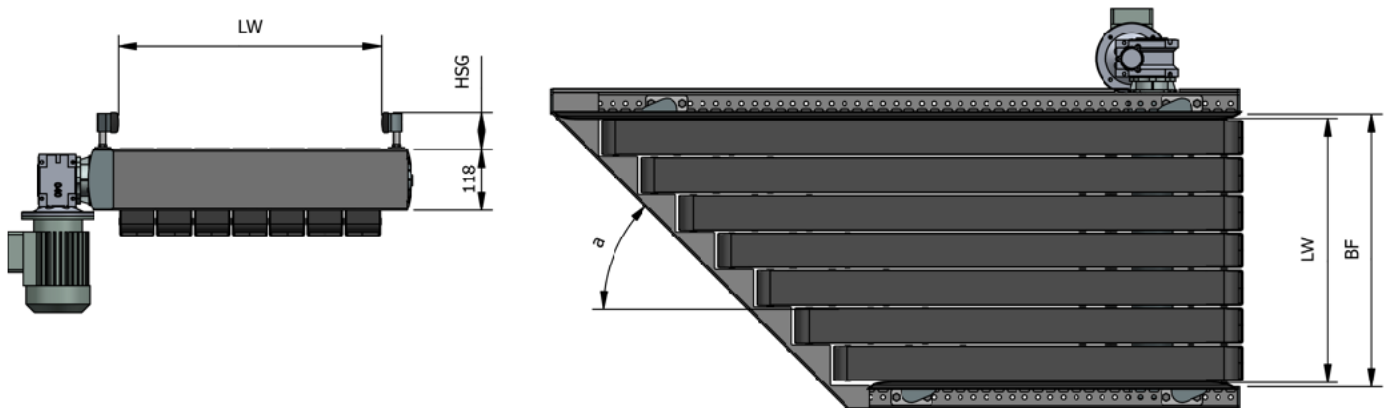
The belt merge is a belt conveyor with a 30° or 45° angled connecting edge. This conveyor element enables the merging of two conveyor lines at the corresponding angle. With the use of supplementary sorting elements, belt merges also enable the separation of conveyor flows. The conveying belts are available in widths of 90 mm and 40 mm for especially small materials.

Belt Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/m
	Max. load capacity per module*	100 kgs
	Conveyor Speed	0.1 to 2.0 m/s
	Inclined / Declined	Not Suitable
	Ambient Temperature	-5 °C to 50 °C (Geared Motor)
Drive	Rated Voltage	415 VAC / 50 Hz / 3 phase
	Electric Power	0.37 kW to 1.5 kW max.
	Motor Type	Geared Motor
Materials	Conveyor Belt	PVC Belt 2 mm thickness
	Slider Roller	Mild Steel / Stainless Steel

Dimensions



BF	Between Frame	420, 620, 840 Others on demand
LW	Lane Width	BF (+120/-90 mm per side with flexible side guide)
GH	Overall Height	200mm
ANGLE	Inclined/Declined Angle	30° / 45°

Belt Conveyor

CURVE BELT CONVEYOR



Product Description

With a conveyor speed of more than 2 m/s, the IMPEL's belt curve is designed for high performance and trouble-free operation in different applications. The curves are available in several widths, angles and weight classes.

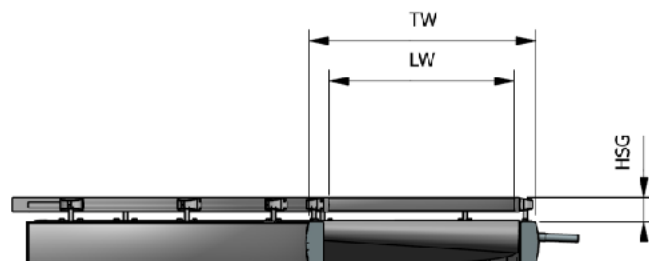
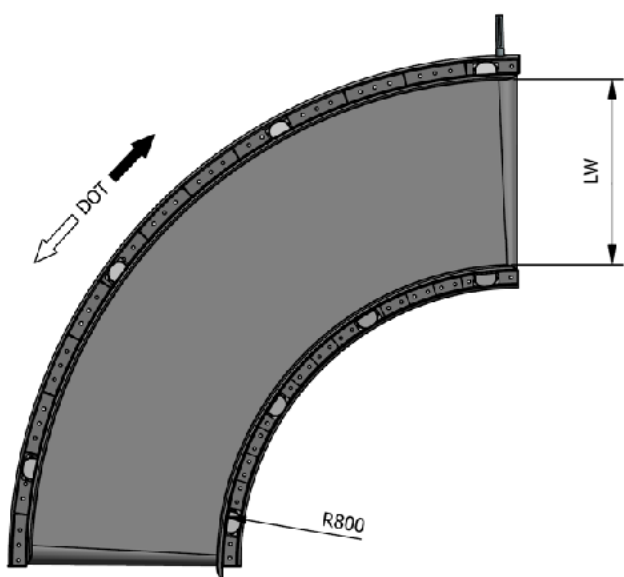
The IMPEL's belt curves can be operated in higher and lower temperature ranges, which represents a significant advantage compared to common solutions, such as friction-driven conveyors. Another advantage is the fast belt change. Thanks to the sophisticated construction, the drive station does not have to be removed for the belt change, thereby saving time.

Belt Conveyor

Technical Data

General Technical Data	Max. load capacity*	75 Kg/m
	Rated Voltage	415V
	Conveyor Speed	Max. 2.0 m/s
	Ambient Temperature	-5 °C to 50 °C (Geared Motor)
Dimension	Cam Angle	30°/45°/60°/90°
	Inside radius	1000/800/800/800 mm
	Lane width	1100/900/700/500 mm
	Lane center length	1550/1250/1150/1050 mm
Materials	Conveyor Belt	FLEXAM EF 10/2 0+A22 BLACK AS FR
	Slider Roller	Mild Steel / Stainless Steel

Dimensions



Belt Conveyor

24 VDC
BELT CONVEYOR



Product Description

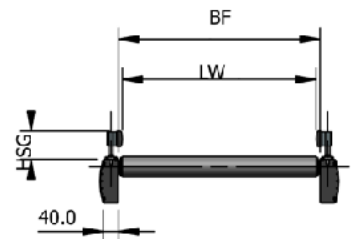
The Belt Conveyor Light is a belt conveyor that is divided into zones and operates with zero pressure accumulation; its drive is based on the 24 V RollerDrive. It is possible to transport and accumulate small products, as well as products not suitable for roller tracks. Not suitable for reversing operation. Available in different models—horizontal, inclines and declines (“nose-over” and “power feeder”) — these belt conveyors feature an extremely low **top-of-belt height**, a real benefit where multi-level conveyor systems are installed. Designed for load capacities of up to 550 kg (1’213 lbs) per module, the new Interroll Belt Conveyor guarantees efficient operation for speeds of up to 2.5 m/s (8.2 ft/s), for unit loads of 50 kg (110 lbs).

Belt Conveyor

Technical Data

General Technical Data	Max. load capacity per zone*	50 Kg/zone
	Incline/decline	Max. 15°
	Conveyor Speed	Max. 0.8 m/s
	Ambient Temperature	-5 °C to 50 °C (Geared Motor)
Drive	Rated Voltage	24 VDC
	Motor Type	DC Roller Drive
	Diameter of drive roller	50 mm
	Control	MultiControl
Materials	Conveyor Belt	Polyester with PVC coating
	Slider Roller	Rollers, Series - 1700

Dimensions



BF	Between Frame	420, 620, 840 mm (min. 360 mm, max. 840 mm) Other on request
LW	Lane Width	BF (+120/-90 mm per side with flexible side guide)
ML	Modular Length	ZL x number of zones, max. 4080 mm
ZL	Zone Length	Number of rollers x P, max. 1980 mm
TW	Roller pitch	90 mm under the belt, 60 mm between the zones
HSG	Height side guide	35 - 65 mm

LOGI

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SYSTEMS



Roller Conveyor

Roller Conveyor

OVERVIEW

IMPEL's Roller Conveyor has been designed efficiently to the highest level whilst keeping with in the focus of our vision to supply high quality cost effective products. The ability to accumulate product with very low line pressure gives reassurance to the End User to keep damaged products to a minimum. With that said its seamless image and sleek profile will impress all.

Our compact yet robust Roller conveyor is a proven product which is very reliable and easy to install. Idea for handling most light and medium weight products. They have a very narrow profile and are especially suitable for use in production lines where space is limited. Our conveyors are built using standard modules which enables us to quickly build a conveyor to your specification.

APPLICATION

Carton / Tote transportation or accumulation, Food, Beverage & Confectionary Processing, Logistics, Freight & Parcel, Airport & Aviation, Warehousing, Picking Lines, Machine in-feed & out-feed, other.



AVAILABLE TYPES OF ROLLER CONVEYORS

1. 415 VAC ROLLER CONVEYOR
2. 24 VDC ROLLER CONVEYOR
3. 415 VAC / 24 VDC MERGE CONVEYOR
4. 415 VAC / 24 VDC CURVE CONVEYOR

Roller Conveyor

**24 VDC
ROLLER CONVEYOR**



Product Description

The intelligent 24V Roller Conveyor family (straights, curves and merges) offers highest **energy efficiency** for unit-load handling (boxes, totes, crates, etc.). Its exemplary low-noise operation and maximum safety due to low voltage make this technology a key element for an improved working environment for your operators. Note that all IMPEL's roller conveyor modules are also available as non-driven conveyors, where unit loads are moved by gravity or manually.

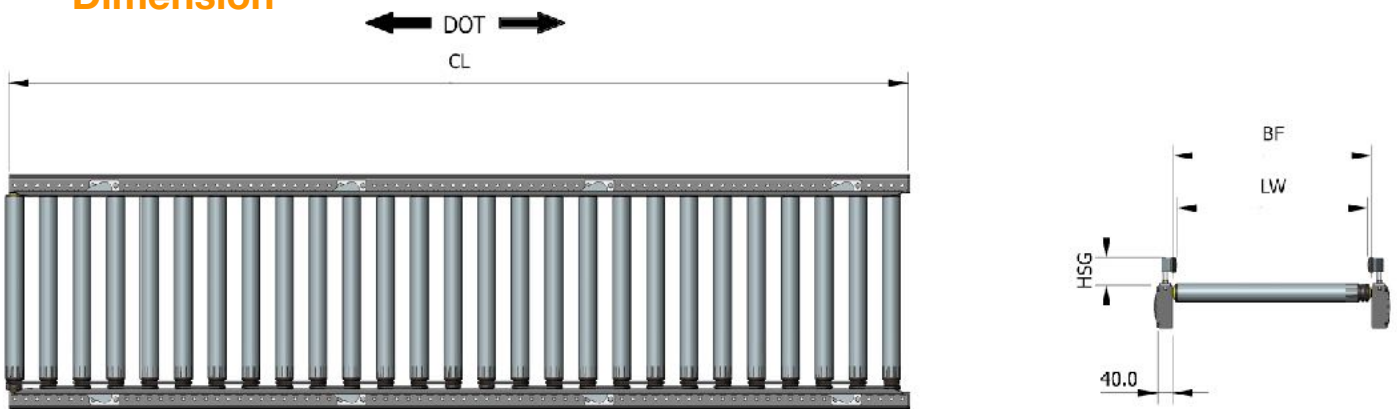
The internal control of the roller conveyor ensures transport of unit loads with zero pressure accumulation. Each zone is driven by a 24V RollerDrive and connected via PolyVee belts with a specified number of idlers. Conveying speeds of **up to 1.0 m/s** (3.3 ft/s) can be reached for unit loads of 35 kg.

Roller Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/zone
	Conveyor speed*	0.1 to 1.0 m/s (at 35 kg) 0.1 to 0.8 m/s (at 50 kg)
	Incline/decline	Max. 4°
	Ambient temperature	+5 to +40 °C
Roller	Roller type	IMPEI Series - 1500
	Roller diameter	50 mm
	Roller material	Steel 1.5 mm, zinc-plated
	Number of rollers max. per zone	20
Drive	Rated voltage	24 VDC
	Motor type	DC Roller drive
	Drive medium	PolyVee belts
	Torque transmission	Roller-to-Roller
	Control	MultiControl

Dimension



BF	Between frames	On demand
LW	Lane width	BF
CL	Module length	max. 3000 mm
ZL	Zone length	Number of rollers x P
TW	Module width	BF + 80 mm
P	Roller pitch	60/90/120/150 mm
HSG	Height side guide	35 - 65 mm

Roller Conveyor

415 VAC
ROLLER CONVEYOR



Product Description

The 415V Roller Conveyor is driven by a flat belt and delivers highest performance in transportation. Compared to the 24V version, this conveyor is ideal where **higher throughput** levels are required and/or heavier unit loads are to be conveyed. Its modular design allows easy integration of key elements such as transfers and diverts with the possibility of sorting operations on the fly, (i.e., without stopping the product in the material flow). Straight, curve and divert/merge modules can be combined or used as stand-alone elements.

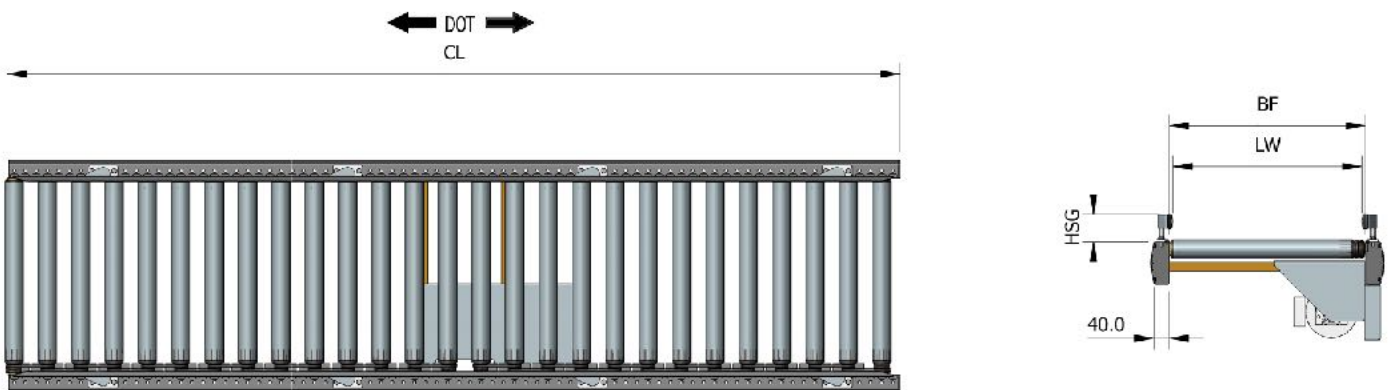
Note that all Interroll roller conveyor modules are also available as non-driven conveyors, where unit loads are moved by gravity or manually.

Roller Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/zone
	Conveyor speed*	0.1 to 2.0 m/s
	Incline/decline	Not Suitable
	Ambient temperature	+5 to +40 °C
Roller	Roller type	IMPEL - Series 3500 IMPEL - Series 1700
	Roller diameter	50 mm
	Roller material	Steel 1.5 mm, zinc-plated
Drive	Rated voltage	415 VAC
	Motor type	AC Geared Motor 3-phase
	Drive medium	PolyVee belts
	Torque transmission	Roller-to-Roller
	Control	MultiControl

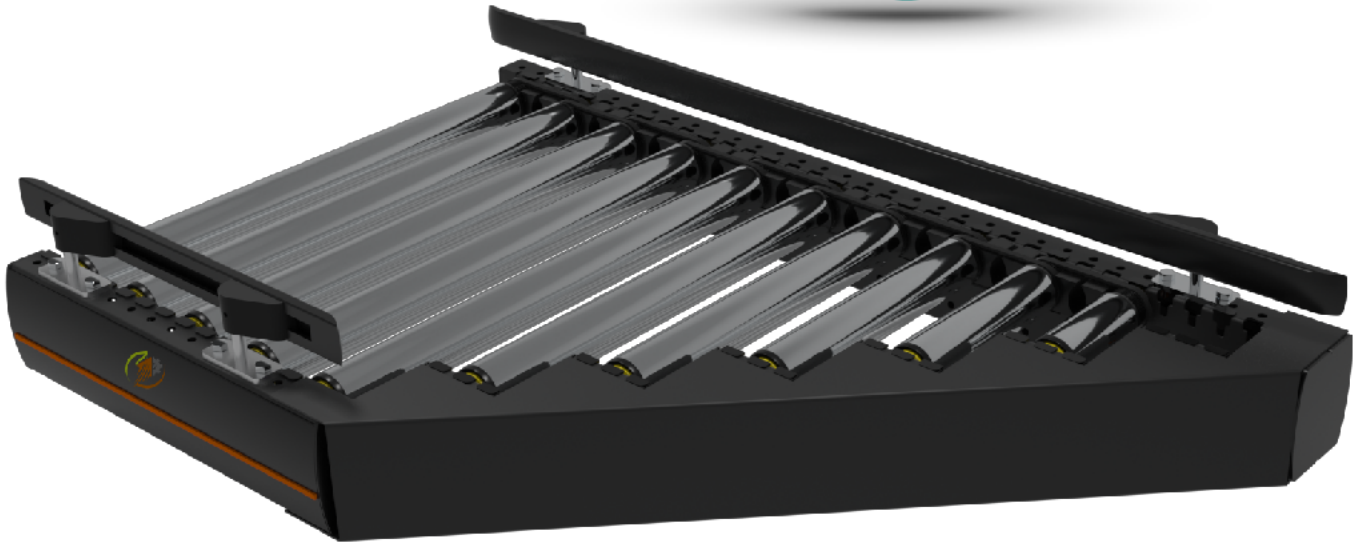
Dimensions



BF	Between frames	On Demand
LW	Lane width	BF
ML	Module length	Max. 3000 mm
TW	Module width	BF
P	Roller pitch	60/90/120/ mm
HSG	Height side guide	35 - 65 mm

Roller Conveyor

MERGE ROLLER CONVEYOR



Product Description

The merge is used for connecting lateral roller tracks at an angle (30° or 45°) to the main track. This can be used for moving material off the track (e.g. with HPD (High Performance Divert)) or onto the track.

IMPEL's 400V Merge is used to connect the side roller modules at an angle (30° or 45°) to a main line. This can be used for **discharging** (e.g., through the High-Performance Divert) or **in-feeding** unit loads.

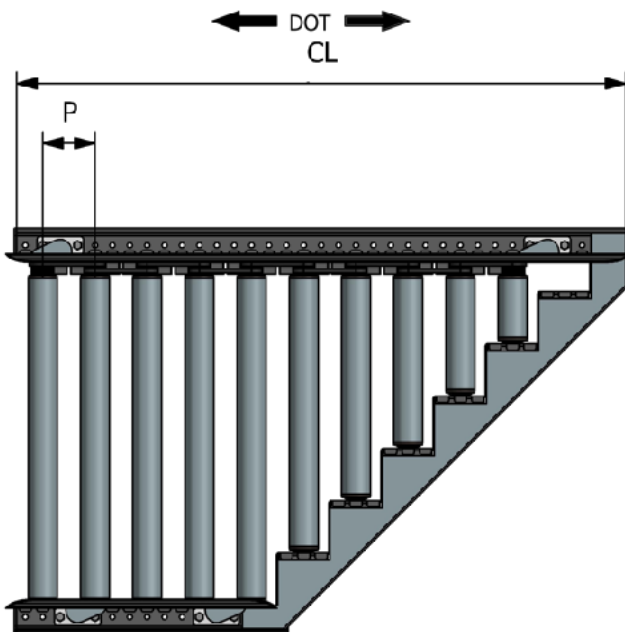
IMPEL's 24V Merge merges two conveyor lines together using the gaps in the flow. Alternatively, it can divert products from a straight path (e.g., through the use of a high-performance divert [HPD]).

Roller Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kg/zone
	Conveyor speed*	0.1 to 2.0 m/s
	Incline/decline	Not Suitable
	Ambient temperature	+5 to +40 °C
Roller	Roller type	IMPEL - Series - 1200 IMPEL - Series - 1500
	Roller diameter	50 mm
	Roller material	Steel 1.5 mm, zinc-plated

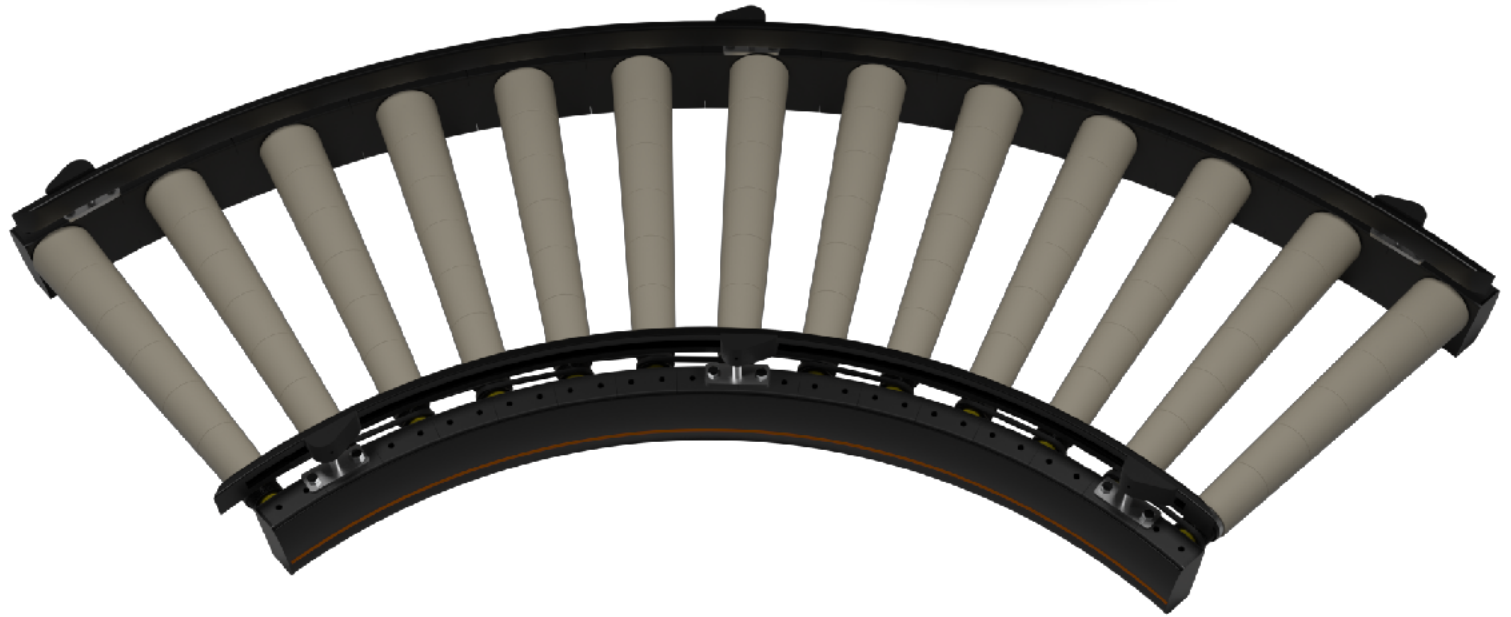
Dimensions



BF	Between frames	On Demand
LW	Lane width	BF
ML	Module length	-
TW	Module width	BF
P	Roller pitch	60 mm
HSG	Height side guide	35 - 65 mm
Angle	Angle	30°/45°

Roller Conveyor

CURVE ROLLER CONVEYOR



Product Description

The 24 V roller conveyor curves change the direction of transport of the material. The conical rollers retain the alignment of the materials between side frames. A controller enables zero pressure accumulation transport. Each zone is powered by a 24 V RollerDrive that is connected to a fixed number of idlers via round belts.

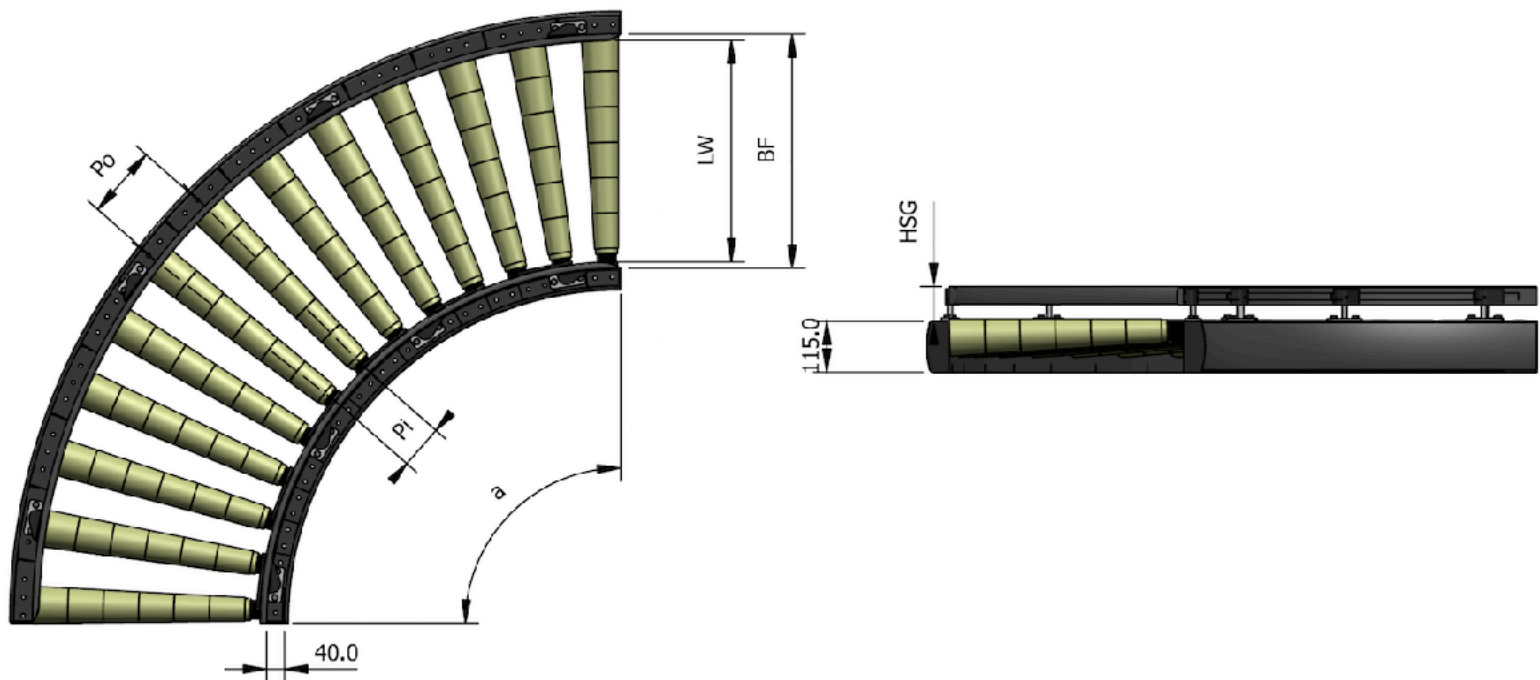
The 400V Roller Conveyor curves change the direction of transport of material. Alignment of the material is maintained within the side frames by tapered rollers, driven by a **PolyVee belt**. Curve elements of flat belt roller conveyors are always driven by the adjacent straight module.

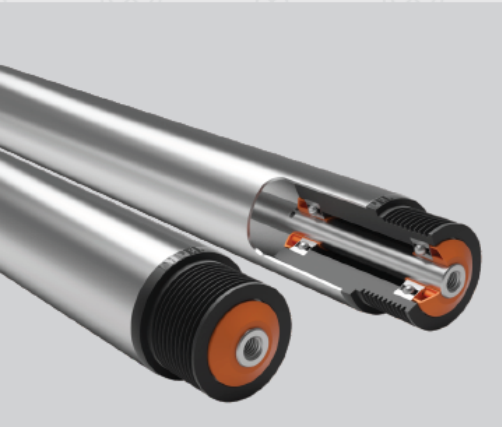
Roller Conveyor

Technical Data

General Technical Data	Max. load capacity*	50 Kgs
	Conveyor speed*	0.1 to 1.0 m/s (at 35 kg) 0.1 to 0.8 m/s (at 50 kg)
	Incline/decline	Not Suitable
	Ambient temperature	+5 to +40 °C
Roller	Roller type	IMPEL - Series 1800
	Roller diameter	50 mm
	Roller material	Steel 1.5 mm, zinc-plated
	Rated voltage	415 VAC or 24 VDC
Drive	Motor type	AC Geared Motor 3-phase IMPEL's DC Roller Drive
	Drive medium	PolyVee belts, Round Belts
	Torque transmission	Roller-to-Roller
	Control	MultiControl

Dimensions





MOD - APPROCH ULAR

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