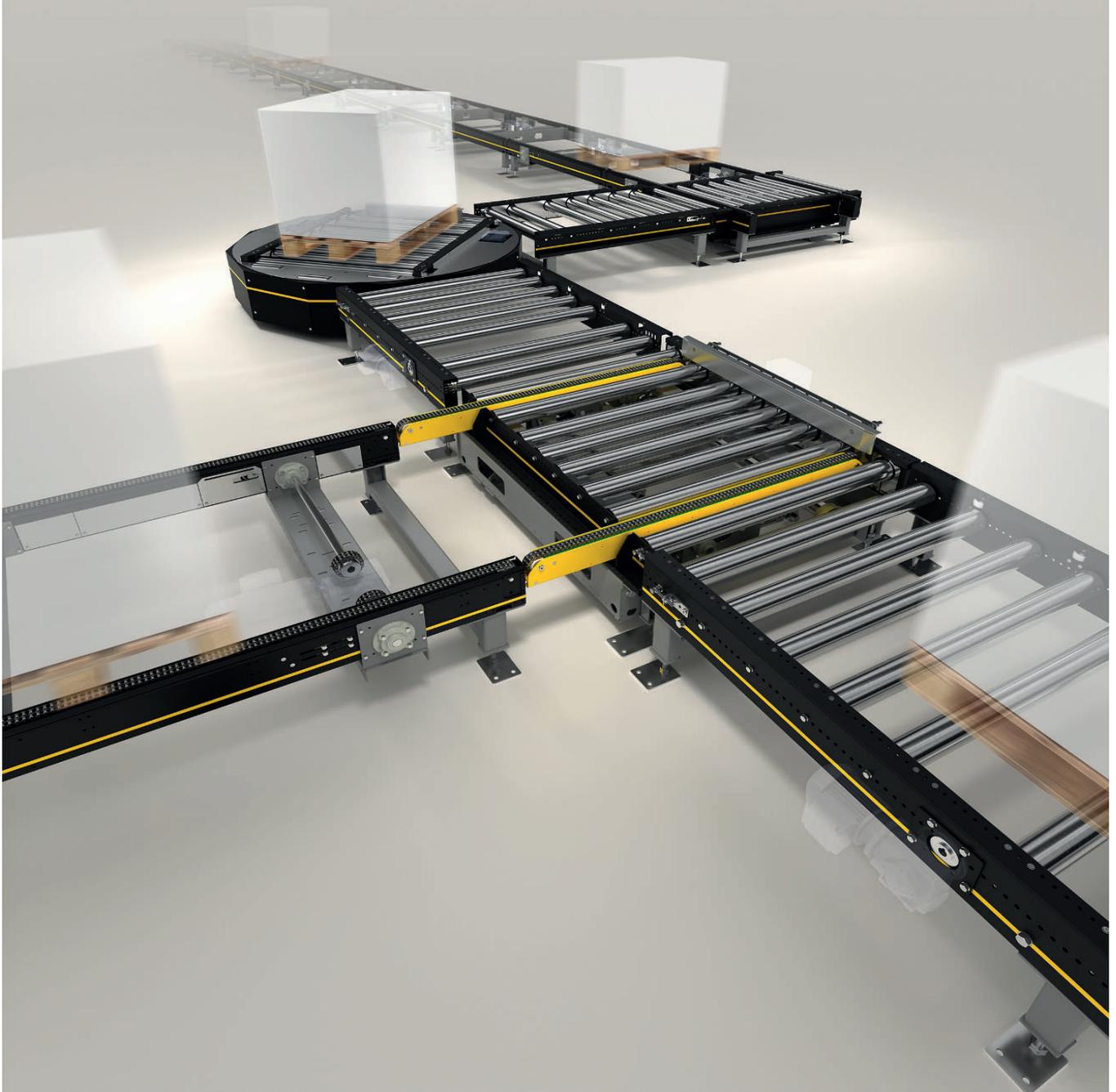


INSPIRED BY EFFICIENCY



CATALOG

PALLET CONVEYOR MODULES



PRODUCT LOCATER

Products	Pallet type										Drive		Torque transmission		Page	
	EUR EPAL pallet		Plastic EPAL pallet		Industrial pallet		Closed block pallet		GMA pallet		Pallet Drive	Gear motor	Roller-to-roller	Tangential		
	Long-way	Cross-way	Long-way	Cross-way	Long-way	Cross-way	Long-way	Cross-way	Long-way	Cross-way						
Roller Conveyor 	PM 9710	●	-	●	-	●	-	●	●	-	●	-	●	-	●	10
	PM 9711	●	-	●	-	●	-	●	●	-	●	●	-	●	-	14
	PM 9715	●	●	●	●	●	●	●	●	●	●	-	●	-	●	18
Chain Conveyor 	PM 9720	●	●	●	●	●	●	●	●	●	●	-	●	-	-	22
Transfer 	PM 9730	Roller	Chain	Roller	Chain	Roller	Chain	Roller/chain	Roller/chain	Chain	Roller	-	●	-	●	26
	PM 9732	Roller	Chain	Roller	Chain	Roller	Chain	Roller/chain	Roller/chain	Chain	Roller	-	●	-	●	30
Turntable 	PM 9735	●	-	●	-	●	-	●	-	-	●	-	●	-	●	34
	PM 9737	-	●	-	●	-	●	●	-	●	-	-	●	-	●	38
		● = suitable	- = not suitable													

Symbols



Max. load capacity 1,200 kg per pallet



Suitable for EUR EPAL pallet



Suitable for closed block pallet



Suitable for GMA pallet



Suitable for industrial pallet



Suitable for plastic EPAL pallet



Gear motor



Pallet Drive



Roller-to-roller chain drive



Tangential chain drive

Contents

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Interroll Chain Conveyor	22
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Interroll Turntable	34
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www.interroll.com

THE INTERROLL GROUP

The Interroll Group is a globally leading supplier of high-quality key products and services for internal logistics. The company, which is listed on the stock exchange and has its headquarters in Switzerland, employs some 2000 people in 32 companies around the globe.

The solutions for our customers' daily logistical challenges are based on Interroll key products that are built on a worldwide common platform.



Conveyor rollers

Interroll is the worldwide leading provider of conveyor rollers that can be found in a multitude of applications in internal logistics. For the roller production, we merge quality, flexibility and speed. More than 13 million rollers in 60,000 variants leave our plants worldwide every year. Our production is always order-driven, even for the smallest order quantities and, if desired, even with a delivery time of 24 hours. Proven.



Drives and Controls

Interroll is a leading manufacturer in the segment of DC motor rollers and drum motors.

Interroll RollerDrive and their controls are used in automated conveyor technology. Energy-efficient DC drives are installed in decentralized conveyor systems and, as a result, optimize energy demand and material flow. The bus interface enables integrating the zero pressure accumulation conveyor technology into Industry 4.0 systems.

Interroll Drum Motors are designed for use in belt conveyors and conveyor systems. These robust, high-quality belt drives enable the construction of maintenance-free, energy-efficient conveyor belt systems for the majority of industrial applications as well as for food processing, baggage handling and supermarket checkouts.



Holding



Sales, Production & Service



Global Competence Centers



Regional Competence Centers

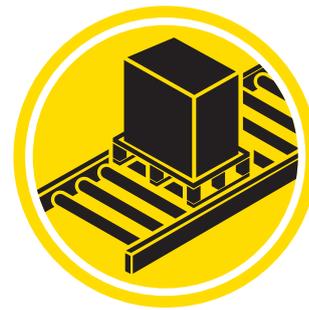


Conveyors & Sorter

The Modular Conveyor Platform (MCP) from Interroll offers highest flexibility: a broad spectrum of modules, consisting of roller conveyors, belt conveyors as well as key products such as high-performance diverts or spiral lifts, covers all requirements of the material flow.

The Interroll crossbelt sorters were developed with an eye on precision for fast and precise sorting of goods of all types from 50 g to 35 kg. More than 300 Interroll sorters are used every day by the largest CEP players and E-commerce enterprises worldwide.

The brand-new modular pallet conveyor platform (MPP) offers roller and chain conveyors as well as special conveyors such as transfers and turntables to create a fully integrated, robust, space-saving and energy-saving solution for high throughput handling of pallets.



Pallet & Carton Flow

Interroll Pallet Flow and Carton Flow is the first choice when it comes to rapid turnarounds and optimizing the storage and commissioning process.

Thanks to its efficiency and robustness, Pallet Flow ensures long-term availability and more flexibility for peaks in orders. The compact design reduces space requirements by up to 50 percent compared to conventional solutions. The integrated TimePlus Separator as well as the Magnetic Speed Controller increase the safety of the work environment and significantly reduce the risk of damages to goods.

The Interroll Carton Flow solutions are efficient as well as ergonomic, and were developed to improve the commissioning output.

INTERROLL PLATFORM FOR PALLET CONVEYOR MODULES

Introduction of the new modular conveyor platform for pallets

Reliable and efficient handling of pallets plays an important role in the material flow. High-capacity storage that uses the least amount of space is not the only aim here. It is just as important to minimize the transportation times between goods receipt and goods issue or storage, or between production and picking areas in companies, and automate them for high efficiency – while at the same time benefiting from streamlined planning processes, a

low installation workload and flexible design options. The new modular pallet conveyor platform MPP is a versatile solution for handling pallets. Combined with the company's tried-and-tested flow storage solution, Interroll's new pallet conveyor platform provides the ideal basis for creating comprehensive storage and conveyor solutions for all kinds of applications.



INTERROLL PLATFORM FOR PALLET CONVEYOR MODULES

Flexibility and robustness make the difference



Customized applications

The modules can transport pallets with a weight of up to 1,200 kilogram at a maximum speed of 0.5 meters per second. The temperature range is from -28 to +40 degrees Celsius, which means that the MPP can even be used in the deep freeze area. Depending on the control system used, it is possible to design the system for different weights, run it at variable speeds or integrate positioning functions.



Space-saving design

A conveyor solution, combining various modules, is installed at a height of 350 millimeters, making it very easy to insert and remove the pallets using a forklift truck. Lower assembly heights are also possible for a simple conveyor line.



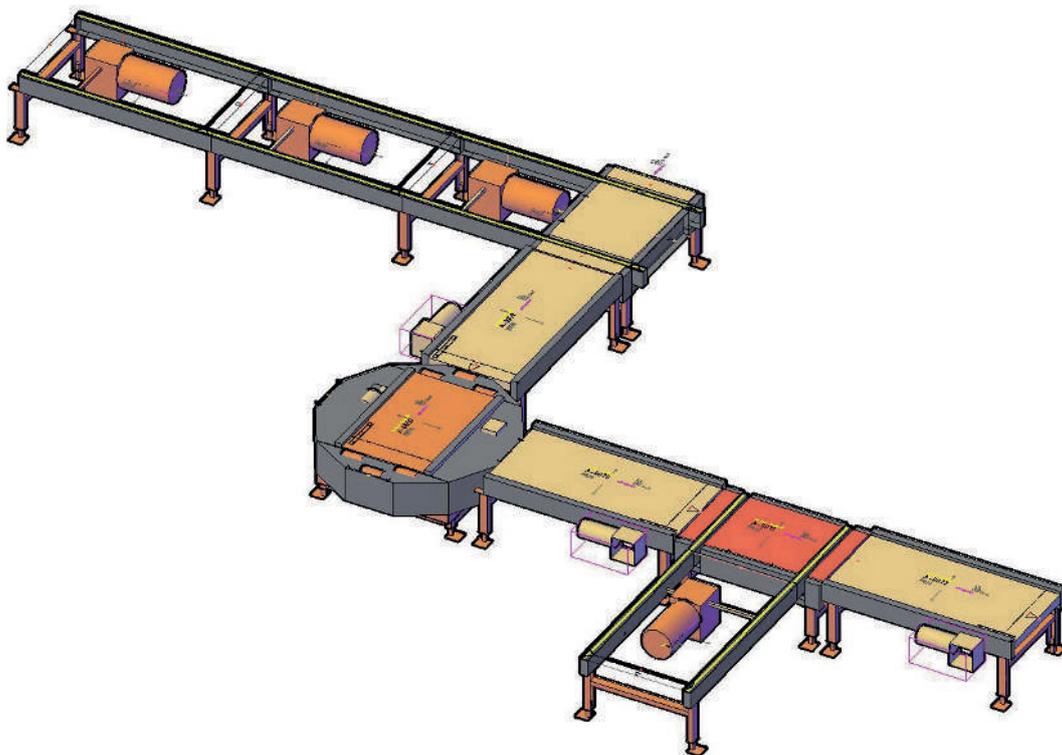
Minimal installation effort

The modules are perfectly matched and each delivered fully pre-assembled, minimizing installation time. An additional advantage of the modular structure is that later changes and enhancements to the material flow or system are easy and cost-efficient.



Simple planning, flexible design

Designing and creating the fully modular system is straightforward and user-friendly with the popular Interroll Layouter tool. The MPP encompasses chain or roller conveyors as well as additional modules such as 90-degree turning units and rotary plates. Special modules for specific functions are also available on request.



PRODUCT OVERVIEW

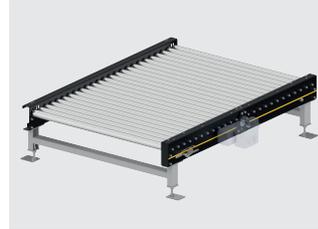
Straight Conveyors



Roller Conveyor
PM 9710 | page 10



Roller Conveyor
PM 9711 | page 14



GMA Roller Conveyor
PM 9715 | page 18



Chain Conveyor
PM 9720 | page 22

Transfers



Chain Transfer
PM 9730 | page 26

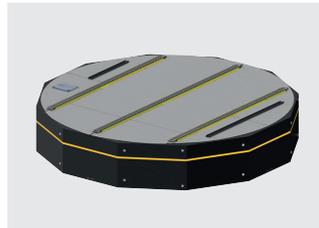


Roller Transfer
PM 9732 | page 30

Turntables

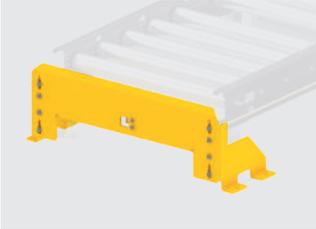


Turntable with Roller Conveyor
PM 9735 | page 34

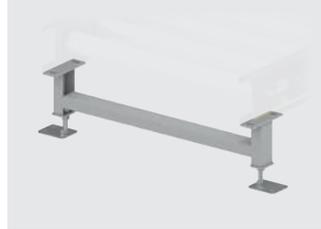


Turntable with Chain Conveyor
PM 9737 | page 38

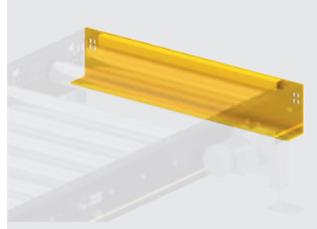
Accessories



Impact Protection



Support



End Stop



Feeding Chute



Running Boards



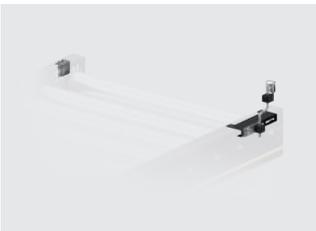
Photo Cell Holder



Driven Transmissions



Chain Conveyor Side Guide



Sensor Holder

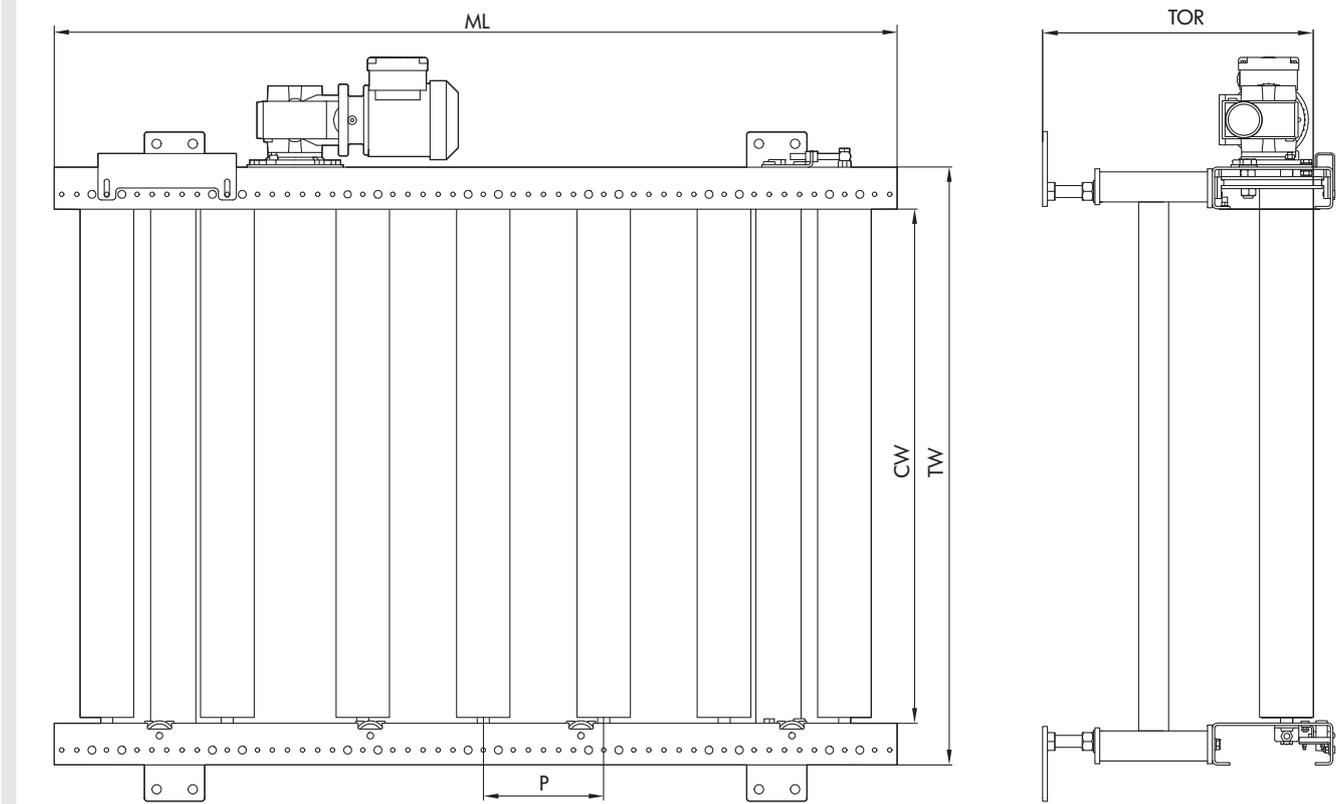
INTERROLL ROLLER CONVEYOR PM 9710

Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.1 to 0.5 m/s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Up to max. 4% (for certain motor variants only)
Drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.12 to 0.75 kW
Roller chain	5/8" x 3/8"
Roller	
Roller type	Interroll Series 3950
Roller diameter	89 mm
Sprocket	Z18
Wall thickness of rollers	3 or 5 mm
Material	Steel, zinc-plated
Profile	
Mounting hole pitch	25 mm
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL ROLLER CONVEYOR PM 9710

Dimensions

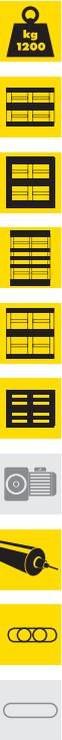


Conveying good width (CGW)	800, 1000, 1200 mm
Module conveying width (CW)	860, 1060, 1260 mm
Module width (TW)	1000, 1200, 1400 mm
Conveying height (TOR)	170 to 1200 mm
Roller pitch (P)	175 to 250 mm
Module length (ML)	750 to 5960 mm

INTERROLL ROLLER CONVEYOR PM 9710



INTERROLL ROLLER CONVEYOR PM 9711



Product description

The roller conveyor is suited for horizontal transport of full and empty pallets. Tensioning of the chains is not required because of the chain transmission from roller to roller. At the same time, the rigid frame profile serves as side guide. Floor irregularities can easily be compensated with adjustable supports.

The use of the Interroll Pallet Drive allows a compact design. Since the drive is located within the side profiles, the individual modules can be installed very close to each other. Together with MultiControl and PalletControl, it is very easy to implement a zero-pressure accumulation conveyor.



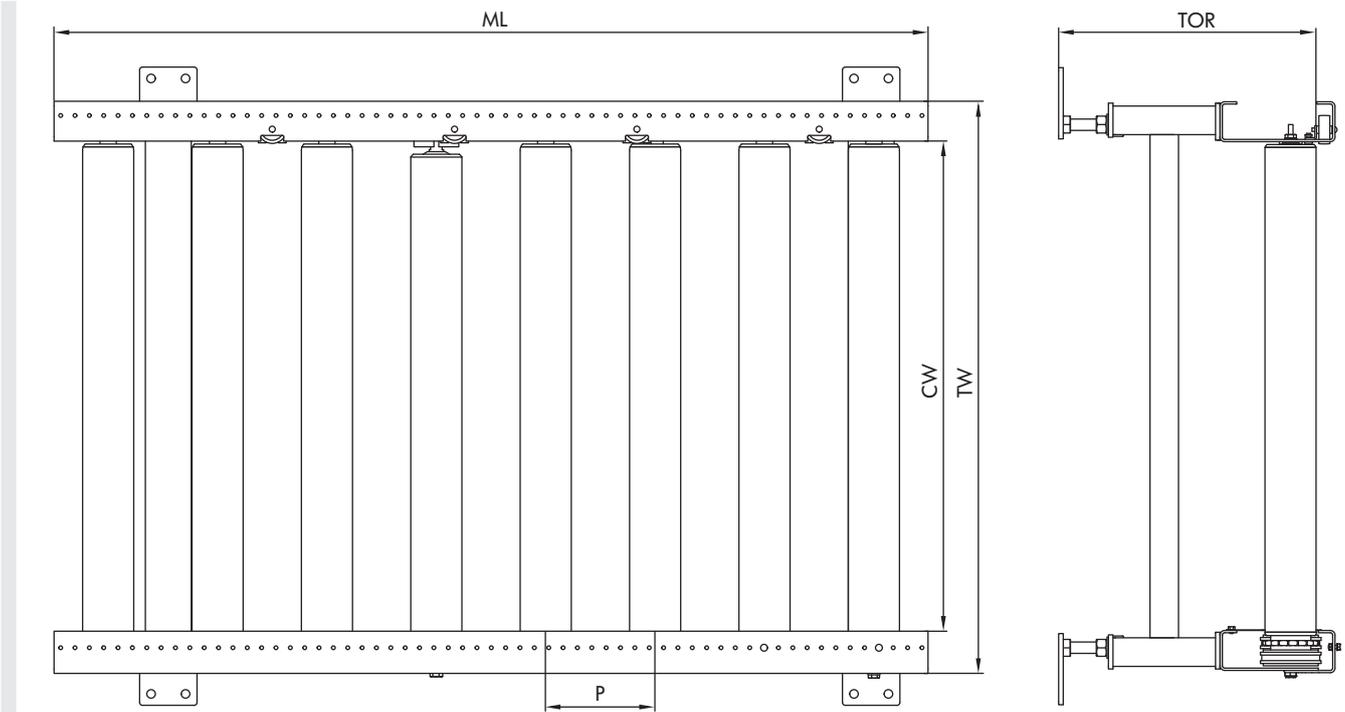
INTERROLL ROLLER CONVEYOR PM 9711

Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.22 m/s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Up to max. 4% (for certain motor variants only)
Drive	
Rated voltage	400 V
Motor type	Pallet Drive
Power	0.07 kW
Roller chain	5/8" x 3/8"
Rollers	
Roller type	Interroll Series 3950
Roller diameter	89 mm
Sprocket	Z18
Wall thickness of rollers	3 mm or 5 mm
Material	Steel, zinc-plated
Profile	
Mounting hole pitch	31.75 mm
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL ROLLER CONVEYOR PM 9711

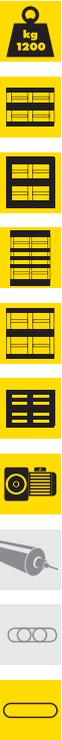
Dimensions



Conveying good width (CGW)	800, 1000, 1200 mm
Module conveying width (CW)	860, 1060, 1260 mm
Module width (TW)	1000, 1200, 1400 mm
Conveying height (TOR)	170 to 1200 mm
Roller pitch (P)	127 to 254 mm
Module length (ML)	300 to 5960 mm

INTERROLL ROLLER CONVEYOR PM 9711

INTERROLL ROLLER CONVEYOR PM 9715



Product description

The roller conveyor is particularly suited for GMA pallets, but also for other pallet types for horizontal transport of full and empty pallets. The rollers can be relocated quickly due to the tangential drive principle and frame design. The chain tensioning station on the outside allows for easy re-tensioning of the precision roller chain. The drive can be installed on the right side or optionally on the left in the direction of travel (DOT). Floor irregularities can easily be compensated with adjustable supports.



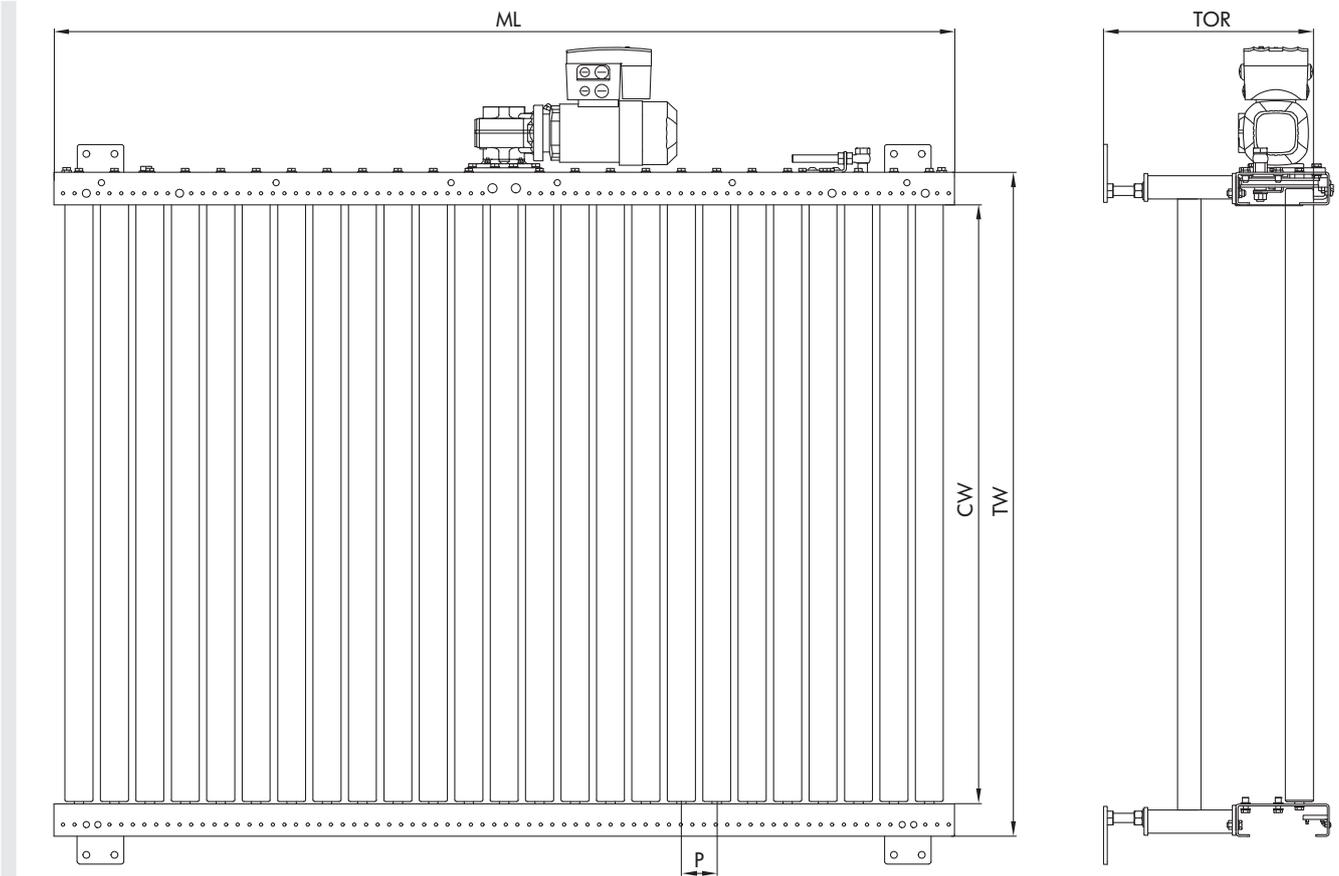
INTERROLL ROLLER CONVEYOR PM 9715

Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.1 to 0.5 m/s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Up to max. 4% (for certain motor variants only)
Drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.12 to 0.75 kW
Roller chain	5/8" x 3/8"
Rollers	
Roller type	Interroll Series 3500
Roller diameter	60 mm
Sprocket	Z13
Material	Steel, zinc-plated
Wall thickness of rollers	3 mm
Profile	
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL ROLLER CONVEYOR PM 9715

Dimensions



Conveying good width (CGW)	1216 mm
Module conveying width (CW)	1276 mm
Module width (TW)	1500 mm
Conveying height (TOR)	170 to 1200 mm
Roller pitch (P)	76 mm
Module length (ML)	400 to 5960 mm

INTERROLL ROLLER CONVEYOR PM 9715

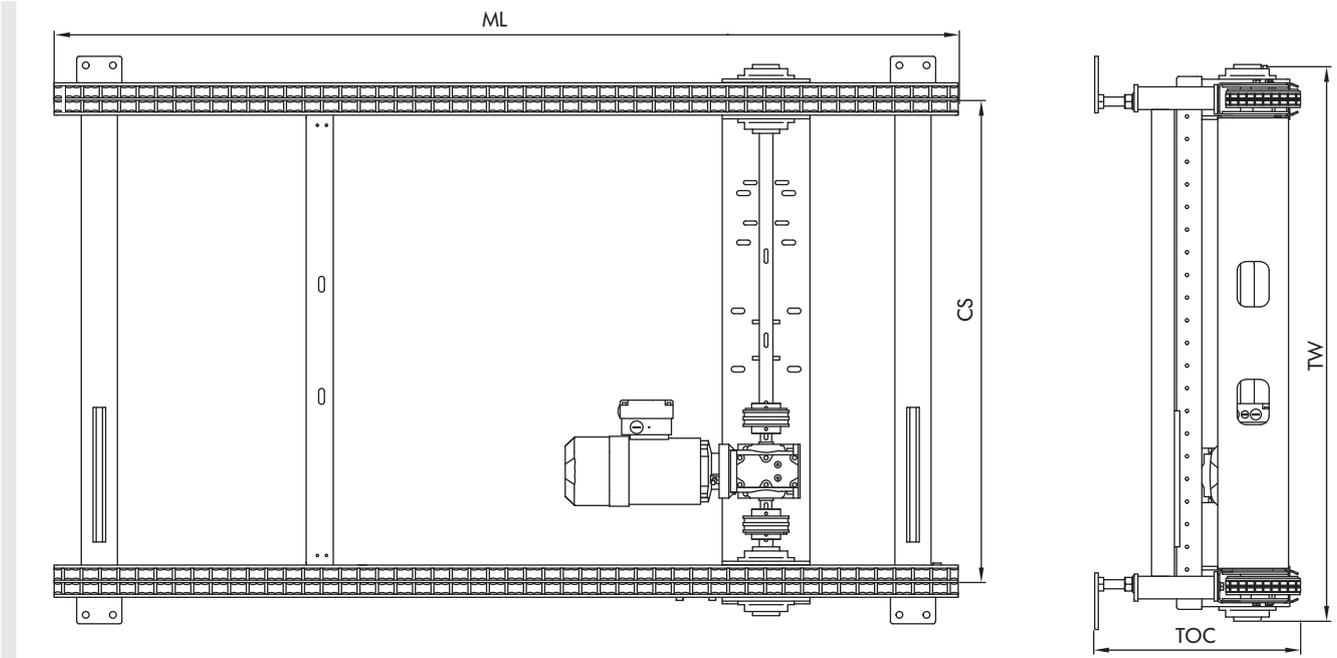
INTERROLL CHAIN CONVEYOR PM 9720

Technical data

General technical data	
Max. load capacity	1500 kg/m
Conveyor speed	0.1 to 0.5 m/s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Up to max. 4% (for certain motor variants only)
Number of chains	2 or 3
Drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.37 to 1.5 kW
Roller chain	5/8" x 3/8" duplex with straight bracket joints
Profile	
Dimensions	155 x 72 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL CHAIN CONVEYOR PM 9720

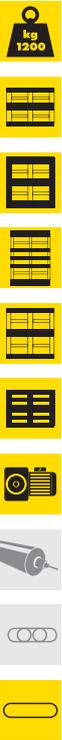
Dimensions



Conveying good width (CGW)	850, 1000, 1200 mm
Module width (TW)	755, 905, 1230 mm
Chain pitch (CS)	600, 750, 1075 mm
Conveying height (TOC)	200 to 1200 mm
Module length (ML)	1200 to 5600 mm

INTERROLL CHAIN CONVEYOR PM 9720

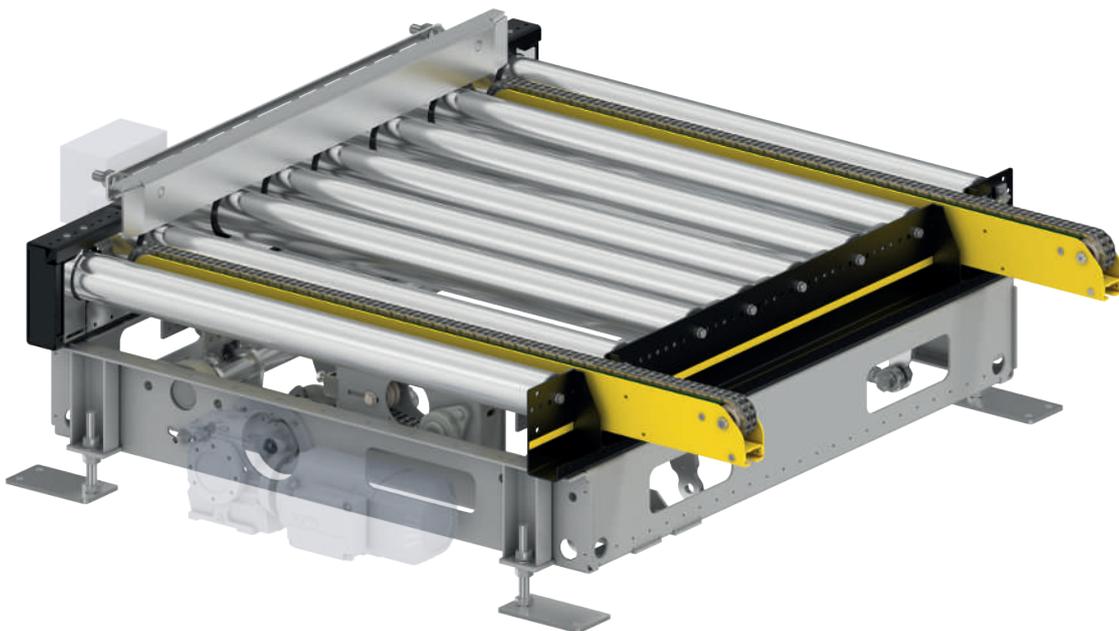
INTERROLL CHAIN TRANSFER PM 9730



Product description

The chain transfer is used for 90° change of direction for horizontal transport of full and empty pallets. For each chain run, a duplex precision roller chain with straight links is used as a transport chain. The transport chain is guided in a plastic chain guide. Compact transfer to the subsequent conveyor is possible to a low deflection radius of only 43 mm. The integrated tensioning station with 180° wrap allows for easy re-tensioning of the chain. The drive station of the transport chains is positioned between the runs under the track. The parallel lift occurs electrically and is supported with maintenance-free ball bearings. Floor irregularities can easily be compensated with adjustable supports.

The module is available with two or three chain runs. If bagged materials or bulk cargo, poor pallet quality or weights of more than 1,000 kg are being handled, we recommend using a roller transfer instead of a chain conveyor with three chain runs.

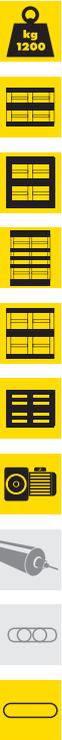


Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.1 to 0.5 m/s
Max. stroke height	30 mm
Stop positions	2
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Not suitable
Number of chains	2 or 3
Chain conveyor drive	
Rated voltage	400 V
Motor type	Gear motor
Power	1.1 kW
Roller chain	5/8" x 3/8" duplex with straight bracket joints
Roller conveyor drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.37 to 0.55 kW
Roller chain	5/8" x 3/8"
Drive stroke	
Rated voltage	400 V
Motor type	Gear motor
Power	0.55 kW
Roller chain	1"
Rollers	
Roller type	Interroll Series 3950
Wall thickness of rollers	3 or 5 mm
Material	Steel, zinc-plated
Profile	
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL CHAIN TRANSFER PM 9730

INTERROLL ROLLER TRANSFER PM 9732



Product description

The roller transfer is used for 90° change of direction for horizontal transport of full and empty pallets. The rigid frame profiles of the roller conveyor are coated in the desired RAL color. The roller conveyor drive is available installed on the right side or optionally on the left of the track in the direction of travel (DOT). The force is transmitted via 5/8" x 3/8" precision roller chain. A solid steel profile frame serves as lifting frame for eccentric lifting cams on ball bearings. The parallel lift occurs electrically and is supported with maintenance-free ball bearings. Floor irregularities can easily be compensated with adjustable supports.

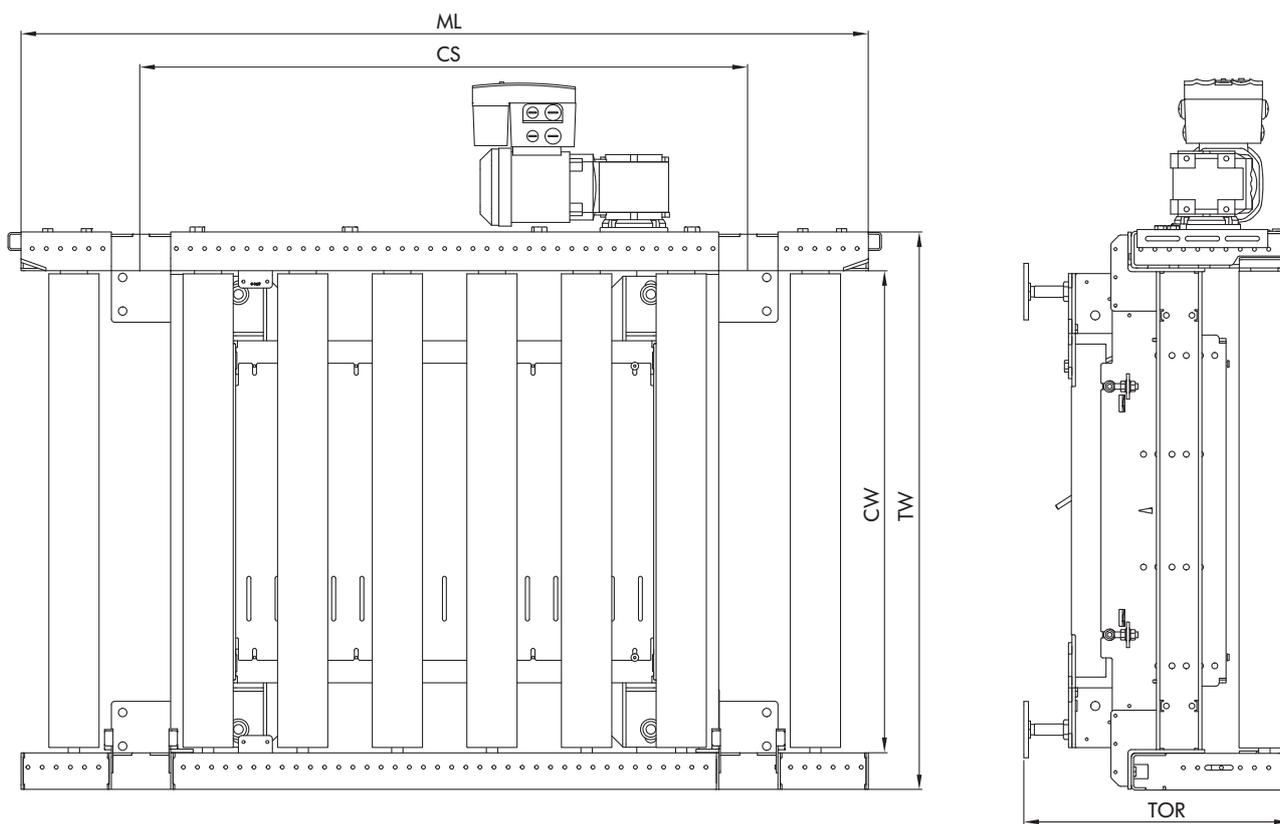


Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.1 to 0.5 m/s
Max. stroke height	60 mm
Stop positions	3
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Not suitable
Roller conveyor drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.55 kW
Roller chain	5/8" x 3/8"
Drive stroke	
Rated voltage	400 V
Motor type	Gear motor
Power	0.55 kW
Roller chain	1"
Rollers	
Roller type	Interroll Series 3950
Wall thickness of rollers	3 or 5 mm
Material	Steel, zinc-plated
Profile	
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL ROLLER TRANSFER PM 9732

Dimensions



Conveying good width (CGW)	800, 1000, 1200 mm
Module conveying width (CW)	860, 1060, 1260 mm
Module width (TW)	1000, 1200, 1400 mm
Chain pitch (CS)	1075 mm
Conveying height (TOR)	500 to 1200 mm
Module length (ML)	1400 mm

INTERROLL ROLLER TRANSFER PM 9732



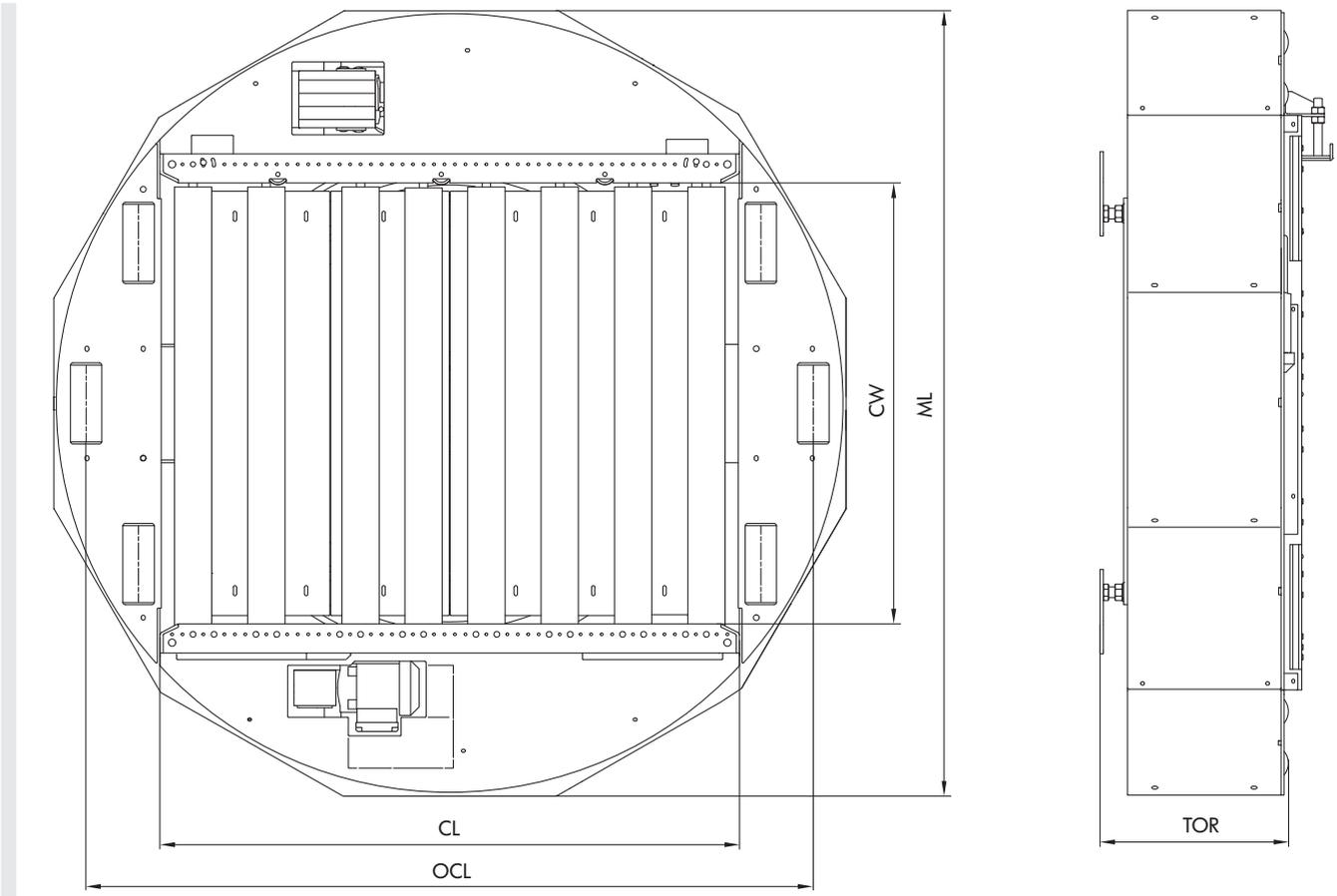
INTERROLL TURNTABLE PM 9735

Technical data

General technical data	
Max. load capacity	1000 kg/m
Conveyor speed	0.1 to 0.5 m/s
Rotational speed (V)	90° in 4s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Not suitable
Roller conveyor drive	
Rated voltage	400 V
Power	0.12 to 0.75 kW
Roller chain	5/8" x 3/8"
Turntable drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.37 kW
Roller chain	5/8" x 3/8"
Rollers	
Roller type	Interroll Series 3950
Roller diameter	89 mm
Sprocket	Z18
Wall thickness of rollers	3 or 5 mm
Material	Steel, zinc-plated
Profile	
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL TURNTABLE PM 9735

Dimensions

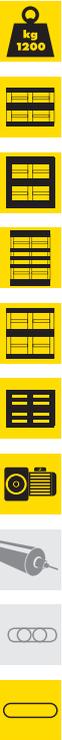


Conveying good width (CGW)	800, 1000 mm
Module conveying width (CW)	1060 mm
Conveying height (TOR)	350 to 1200 mm
Conveyor length	1380 mm
Total conveyor length	1740 mm
Module length (ML)	1890 mm

INTERROLL TURNTABLE PM 9735

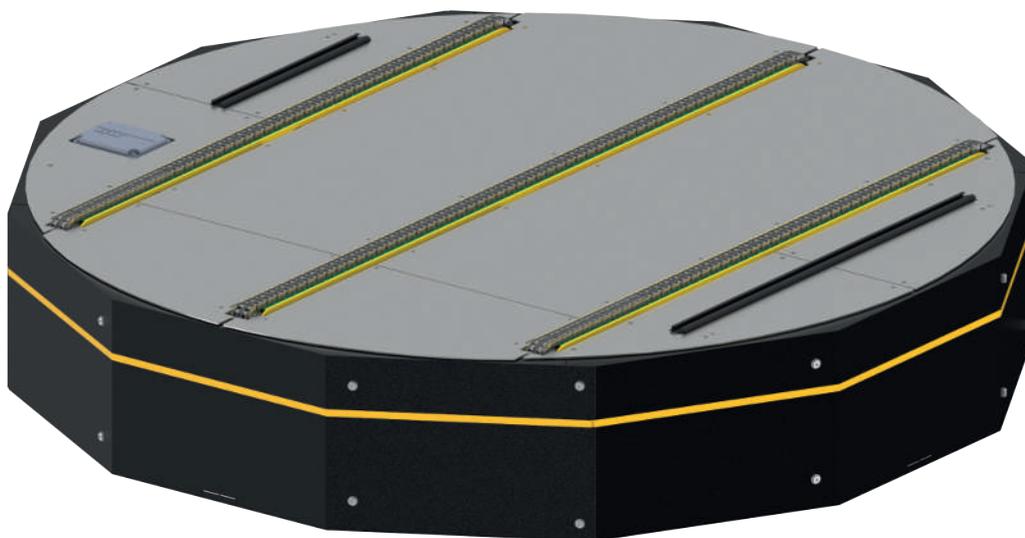


INTERROLL TURNTABLE PM 9737



Product description

The turntable is used for change of direction or for turning full and empty pallets. The turn can measure between 0° and 270°. The efficient turning motion is realized using a precision roller chain, with drive transmitted from a sprocket connected directly to the motor shaft. The turning accuracy and precision is managed via a robust ball bearing. The chain tensioning station of the carrying idler rollers, located on the outside for easy access, is self-adjusting benefitting the customer in maintenance aspects. The drive of the roller conveyor is installed on the right side or optionally on the left in the direction of travel (DOT). Floor irregularities can easily be compensated with adjustable supports.

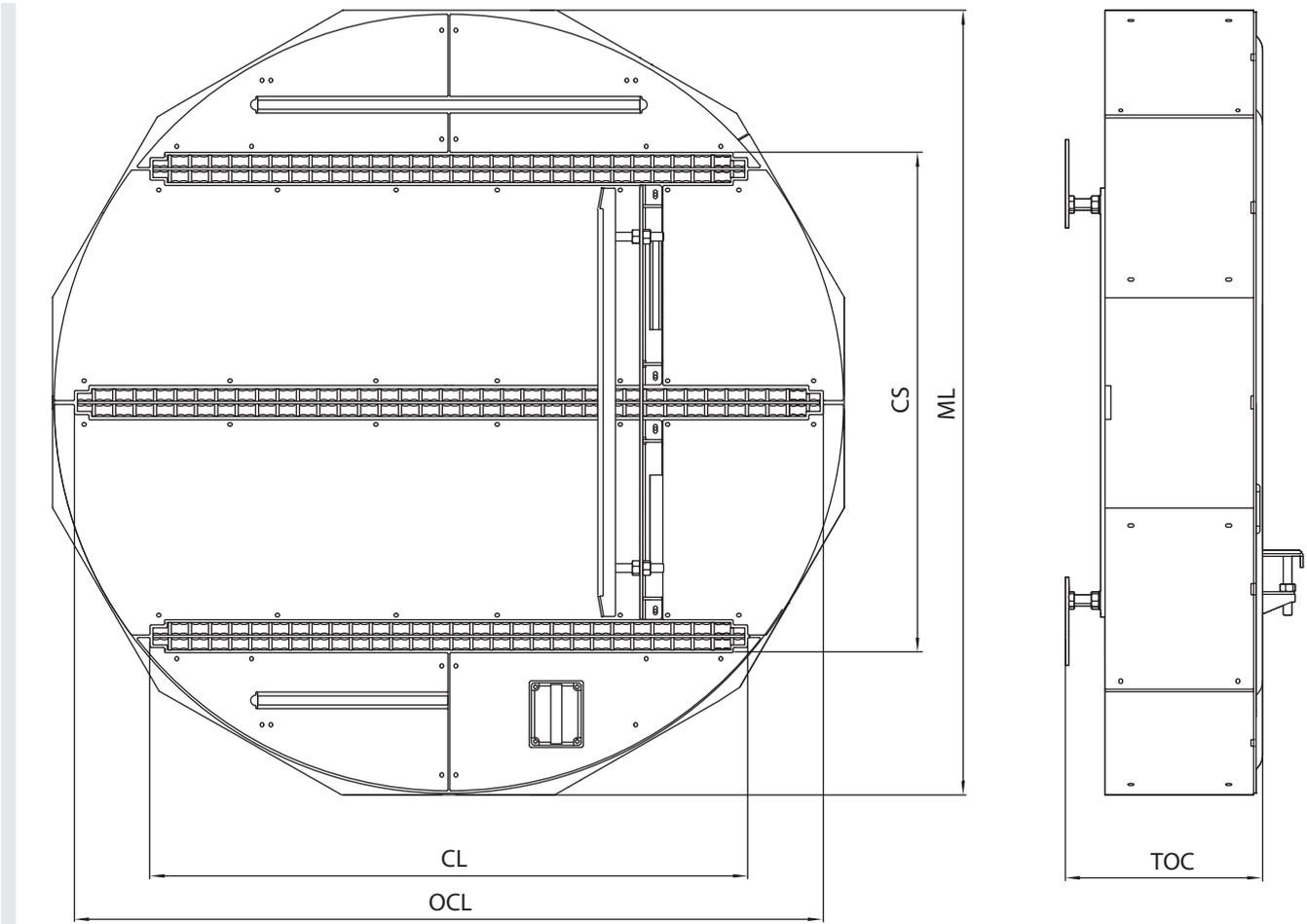


Technical data

General technical data	
Max. load capacity	1500 kg/m
Conveyor speed	0.1 to 0.5 m/s
Rotational speed (V)	90° in 4s
Ambient temperature	-28 °C to +45 °C (non-condensing) Note: Deep freeze applications are possible only as an option
Incline/decline	Not suitable
Chain conveyor drive	
Rated voltage	400 V
Power	0.12 to 0.75 kW
Roller chain	5/8" x 3/8" duplex with straight bracket joints
Turntable drive	
Rated voltage	400 V
Motor type	Gear motor
Power	0.37 kW
Roller chain	5/8" x 3/8"
Profile	
Dimensions	200 x 70 x 4 mm
Color	Powder-coated, all RAL colors are possible
Material	Steel

INTERROLL TURNTABLE PM 9737

Dimensions



Conveying good width (CGW)	850, 1000, 1200 mm
Chain pitch (CS)	1075 mm
Conveying height (TOC)	350 to 1200 mm
Conveyor length	1360 mm
Total conveyor length	1740 mm
Module length (ML)	1890 mm

INTERROLL TURNTABLE PM 9737



APPLICATION NOTES

WHAT ARE APPLICATION NOTES USED FOR?

What are application notes used for?

The application notes support you during the planning and dimensioning of conveyor systems, as well as during the selection of Interroll conveyor modules.

The application notes offer the following:

- Basic rules for trouble-free transport
- Decision-making aids for product selection
- Calculation examples for the dimensioning of the conveyor modules and drive performances

In addition, your Interroll customer representative will be happy to assist you in the selection of conveyor modules, especially if you require specific measures due to special conveying goods or environmental conditions.

You should answer three questions before selecting a conveyor module:

Which tasks should the conveyor technology handle?

- Transporting and/or storing
- Sorting and/or distributing

What properties does your conveying good have?

- Length, width and height: Minimum and maximum dimensions of the transport materials which are conveyed together on one line
- Weight: Minimum and maximum weight of unit loads; ideally assigned to the dimensions
- Condition of the pallet underside: The bottom determines, e.g., the suitability of roller conveyors

Does the condition of your conveying good or the surroundings require special measures?

- For example, are there extreme temperatures, high humidity or chemical influences?
- Does electrostatic charging pose a problem?
- Is the conveying good fragile or problematic in any way?

Working with maximum values

Minimum and maximum performance data are listed at many points in this catalog. These extreme values, e.g., maximum permissible weight and maximum permissible speed, cannot always be combined with each other without restrictions. If you have any doubts, please contact your Interroll customer representative.

Weight classes

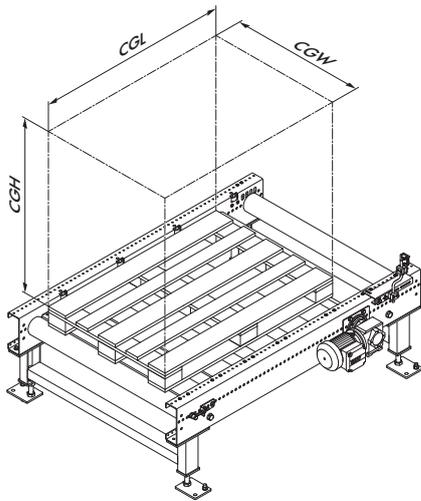
In general, Interroll groups conveyor technology by the weight of the conveying good into the following classes:

- Up to 35 kg: Light
- Up to 500 kg: Medium
- Up to 1,500 kg: Heavy

This catalog includes conveyor modules up to 1,200 kg, i.e., up to part of the Heavy weight class.

Conveying good

- The permissible dimensions, weight and conveying speed of the conveying good may not be exceeded, see "Technical data".
- The load capacity of the pallet must be sufficient for the weight of the conveying good.
- The weight must be evenly distributed on the pallet.
- For roller conveyors, more than three conveyor rollers must be located under the conveying good at all times.
- Conveying good dimensions, load stability and how the load is secured determine the conveying speed.
- The conveying good overhang on the pallet may not exceed 50 mm on any side.
- Only the types of pallets specified for the module may be transported.
- The conveying good height FGH depends on the center of gravity of the load.
Height of center of gravity < 1/2 conveying good height

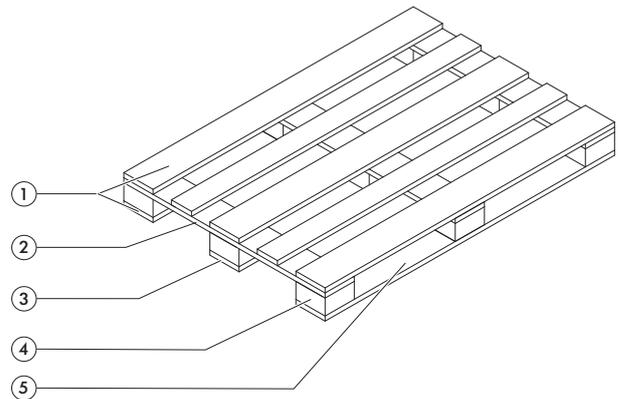


Size of conveying good = CGH x CGW x CGL

CGH	Conveying good height
CGW	Conveying good width
CGL	Conveying good length

Prerequisites for a safe transport:

- All outside long boards (1) are complete and undamaged.
- All cross boards are complete (2) and undamaged at the corners.
- The lower center board (3) is present and undamaged. There are no breaks along the entire length.
- All corner beams (4) are complete and not broken crosswise.
- All lower boards (5) are complete and dry. No board is broken crosswise.
- All nails are properly hammered in and do not protrude more than 2 mm.
- The bottom runners are free of plastic film.



APPLICATION NOTES

BASIC PRINCIPLES FOR TROUBLE-FREE TRANSPORT

Basic principles for trouble-free transport

In order to transport the conveying good flawlessly on a roller conveyor, the following basic principles must be followed:

Roller pitch

The roller pitch must be selected so that at least three conveyor rollers are underneath the conveying good at any given time:

$$P \leq \frac{L}{5}$$

P	Roller pitch in mm (")
L	Conveying good length in mm (")

Load capacity

The weight of the conveying good must be distributed onto as many conveyor rollers as necessary so that the maximum load capacity of each individual conveyor roller is not exceeded. This may mean that more than three conveyor rollers must support the conveying good.

More information about conveyor rollers is available in Interroll's conveyor roller catalog.

Side profile

Steel profile 200 x 70 x 4 mm

- Standard profile for all roller conveyors
- Folded steel profile with powder coating
- The top edge of the roller is always 30 mm deeper than the top edge of the profile
- The side profile serves as side guide
- The profile has a continuous hole pattern in a grid of 25 mm for attaching all the required add-on components

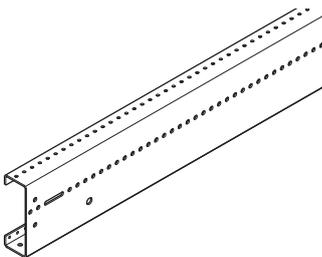


Fig.: Side profile

Profile connectors

The side profiles of the modules are connected form-fit with a profile connector. Each conveyor module includes 2 profile connectors.

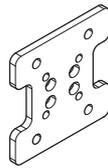


Fig.: Profile connectors

Supports

The supports are made of folded U-profiles 100 x 50 x 4 mm, which are assembled into a rigid frame. The supports can be attached in a grid of 25 mm at any location of the module (recommended support distance max. 1,500 mm). In any event, a support must be attached at every track joint.

Throughput

The throughput T_p of a conveyor system is given in units/hour and depends on the size of the conveying good, the conveying speed and the cycle times of merging and diverting units.

The window size T is required for calculating the throughput. The window size T is the distance from the front edge of a conveying good to the front edge of the following conveying good, irrespective of the actual length of the conveying good or zone length.

For the precise calculation of the power capacity T_p , please contact your Interroll customer representative. T_p for straight paths can roughly be calculated as follows:

$$T_p = \frac{3,600 \cdot v}{T}$$

T_p	Throughput in units/hour
v	Conveying speed in m/s (ft/m)
T	Window size in m (")

With merging and diverting, throughput is additionally influenced by the actual length and weight of the conveying good as well as the transfer cycle. Please contact your Interroll customer consultant for calculations.

Turntables

At the junctions of conveyor systems, pallets can be transferred via turntables from incoming conveyor lines onto tracks with different directions of travel.

Since they approach several positions in the swiveling range of 270° , they can be used as corner deflection, crossing or merger/diverter.

The direction of rotation must be specified by the controller of the conveyor systems.

Examples of applications

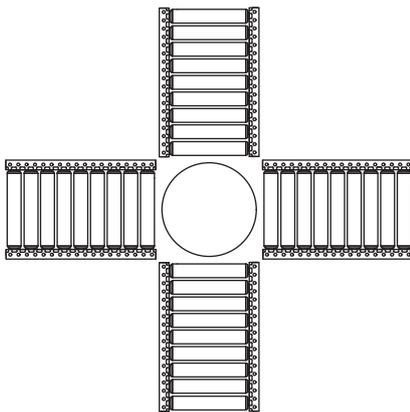


Fig.: Turntable crossing

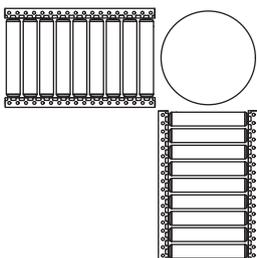


Fig.: Turntable 90° discharge

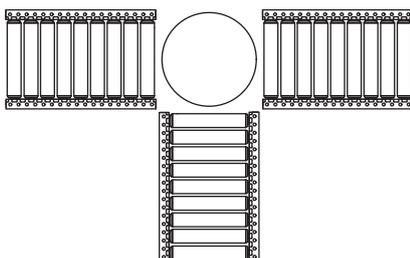


Fig.: Turntable diverter or merger

Transfer

The combination of roller and chain conveyors allows 90° transfers to implement complex intralogistical solutions in extremely tight spaces: They connect conveyor lines at a 90° angle and enable a change of direction of the load carriers.

For right-angle merging and diverting as well as for moving the conveying good between conveyor lines running in parallel, lifting elements are installed in the conveyor systems. The lifting motion is carried out electromechanically via eccentric lifting shafts.

Chain and roller transfers cannot be combined in a closed loop.

Examples of applications

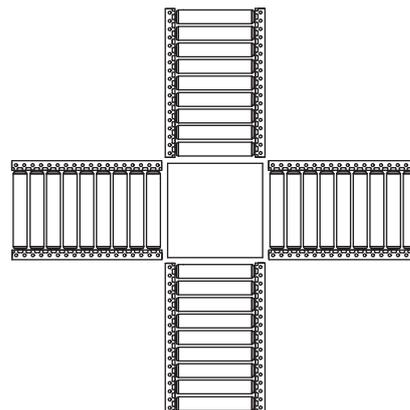


Fig.: Transfer crossing

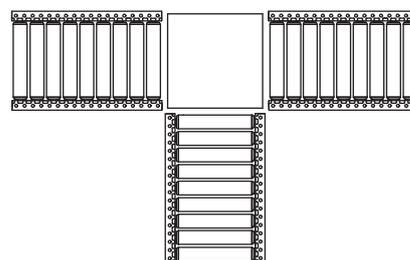
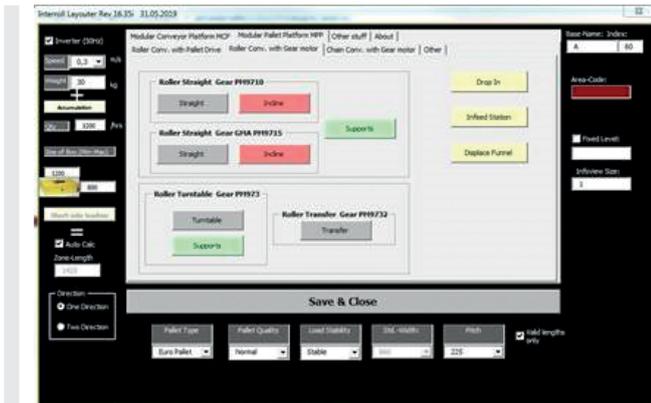


Fig.: Transfer diverter or merger

APPLICATION NOTES

INTERROLL LAYOUTER

Interroll Layouter



The Interroll Layouter gives you a menu-driven tool that provides professional support in planning a conveyor system. Operating the software is very intuitive and makes it possible to compile an extensive 3D layout in DWG format from all Interroll conveyor modules.

All illustrated conveyor modules automatically feature a complete parameter set that makes it possible to simplify the electrical engineering process at the Integrator as well as the mechanical engineering process at Interroll. All parameters are exported to an Excel conveyor list which Interroll can use as the basis for creating price quotations, quickly and reliably.

System requirements:

- AutoCAD 2014 full version
- Microsoft Office 2010

The Interroll Layouter is available as a plugin for AutoCAD where it can be launched and used via a separate menu.

For additional information and operational support, please contact your Interroll customer representative.

LEGAL NOTICES

Contents

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About Interroll

The Interroll Group is a globally leading supplier of high-quality key products and services for internal logistics. The company supplies roughly 23,000 customers (system integrators and machine builders) throughout the world with a broad product range in the four product groups "Rollers" (conveyor rollers), "Drives" (motors and drives for conveyor systems), "Conveyors & Sorters" as well as "Pallet & Carton Flow" (flow storage systems). Core industries are courier, express and postal services, airports, food processing as well as distribution and other industries. With its headquarters in Sant'Antonino, Switzerland, Interroll features a worldwide network of 32 companies with roughly 2,000 employees. The company was founded in 1959 and is listed on the SIX Swiss Exchange since 1997 and represented in the SPI Index.

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