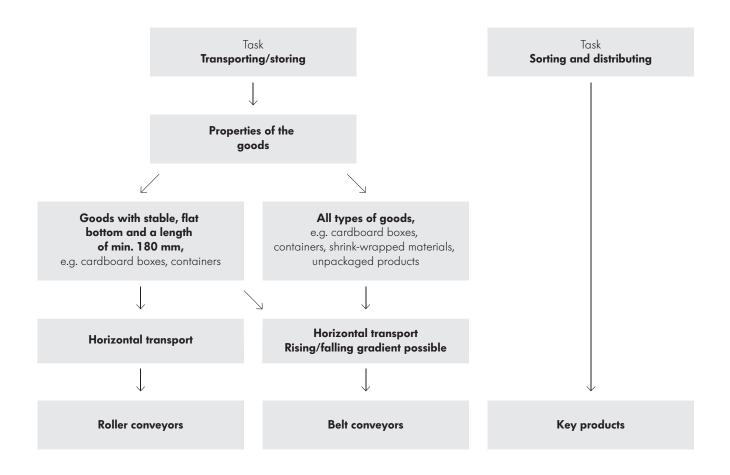


CATALOG **CONVEYOR MODULES**

PRODUCT LOCATOR



Symbols

24V	Voltage 24 V
48V	Voltage 48 V
400V	Voltage 400 V
	Suitable for deep freeze area

Contents

The Interroll Group	4
Interroll Platform for Conveyor Modules	6
Product overview	10
Roller conveyor	14
Belt conveyors	48
Key Products	72
Accessories	96
Application Notes	108
Index	120



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 2300 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 $\mbox{\tt drum}$ 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 handling. 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.

THE INTERROLL GROUP



Conveyors & Sorters

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 transfer, high-performance diverts or spiral lifts, covers all requirements of the material handling.

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 are 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 CONVEYOR MODULES

The platform was developed by using an holistic approach to designing each process level – whether the ordering process, the planning of the conveyor system or its installation – as efficiently as possible. The modules themselves set a high standard for reliable and solid technical performance. This platform was designed for flexibility, modularity, attractive industrial design, simple handling during assembly and expansions.

Standardized modules

With the new modules in three standard widths, all common conveying goods can be transported reliably. This keeps the expenses for combining different modules into a conveyor solution low and reduces the customer's stocking of spare parts to a minimum.

Efficient drive solutions

Customer needs, conditions on site, and type of conveying goods define the requirements for a system. The Interroll conveyor modules can be designed for the most efficient solution for each task. Zero pressure accumulation conveying can be implemented with proven 24/48-V RollerDrive. For higher performance, efficient 24/48-V drives that enable efficient and future-proof zero pressure accumulation conveying are used together with roller conveyors with 400/460 V flat belt drives. Pneumatics, which creates high operating costs, is completely omitted here.

Flexible and modular concept

Refined technical details and solutions offer lots of room for the flexibility of our customers. If changes to or expansions of the system should be necessary, the planning is simple. Thanks to the modular concept, the individual modules are perfectly matched and can be easily combined with each other.

Simplest layout creation

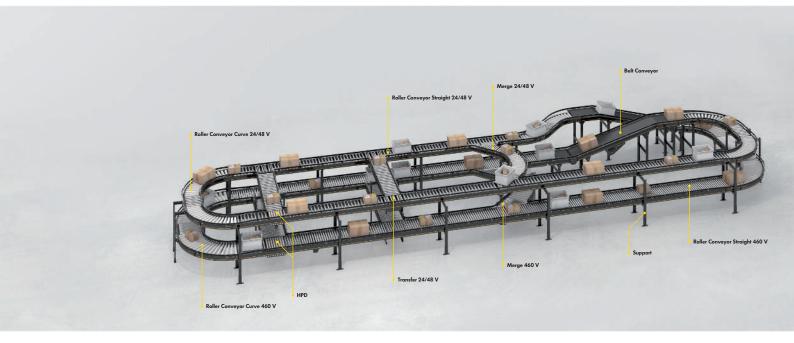
The Interroll Layouter gives you a menu-driven tool that provides professional support in planning a conveyor system. Operating the software is very intuitive and makes it possible to compile an extensive 3D layout in DWG format from all Interroll conveyor modules.

The new platform offers a wide selection of modules and key elements so that the material flow can be planned efficiently. Everything from a single source and with expert consultation.

Application in deep freeze and chill area

The deep freeze logistics with up to $-30\,^{\circ}\text{C}$ poses special challenges for material flow solutions. The 24/48-V roller conveyors and diverters enable an efficient zero pressure accumulation operation, even under these ambient conditions. Not only does this increase the work productivity, but it also facilitates installation and maintenance.

INTERROLL PLATFORM FOR CONVEYOR MODULES



Belt conveyors are also being used for the chill area, which is usually between 0 °C and +5 °C. Hence, it is possible to use a continual material flow solution at different ambient temperatures in a modular and flexible way.

Quick installation

Largely pre-assembled modules accelerate the installation on site. Independently adjustable side guides, infinitely adjustable supports, integrated electrical conduits and an universally applicable master gauge for holes to attach add-on components are only a few of the details that reduce the installation effort.

Reliable operation

The robust and extensively tested design of the new modules reduces the maintenance effort and ensures the reliable operation of a conveyor system.

- · Flexible and modular concept
- · Energy-efficient 24/48-V conveyor technology
- · High throughput
- · Quick and easy installation
- · Extremely quiet operation
- Easy maintenance
- · Straightforward planning

Roller conveyors, see page 14
Belt conveyors, see page 48
Key products, see page 72
Accessories, see page 96
Application notes, see page 108

INTERROLL PLATFORM FOR CONVEYOR MODULES

Performance in detail

Energy-efficient 24/48-V conveyor technology



The most efficient solution is selected for each conveyor task.

- Zero pressure accumulation conveying with 24/48-V drives
- Variant with 400/460 V main drive for high-performance applications
- Belt conveyor with Interroll drum motors
- No pneumatics required

High throughput



Powerful conveyor technology.

- Transport speed up to 2.5 m/s (400 fpm)
- Distribution output up to 3,600 units/h possible
- Diverting without interrupting the material flow

Scalability



Simple planning, implementation and expansion of conveyor systems.

- Modular concept
- Standard interfaces
- Quick and easy installation

Ergonomics

8



Well thought-out solutions for convenient and safe work.

- Quiet operation (< 60 dBA without conveyor belt)
- Safety due to 24/48-V technology
- Minimized tool demand for the entire platform

Control



Future-oriented 24/48-V control concept for every need.

- Open interfaces with high-speed fieldbus
- Internal logic for reduced control effort

Continuous side profile design



A side profile for all modules for flexible routing.

- High-quality powder-coated steel profile
- A multitude of fastening options on the profile
- Can be used as an electrical conduit

Crossbar



Rigid connection of side profiles, which also serves as an electrical conduit.

- As an electrical conduit, usable for up to ten cables
- Sealable against dirt and contamination

Plastic clip for roller fixing



Simple and quick roller assembly and maintenance.

- Assembly and disassembly of rollers from the top
- Multi-use clip
- Simple subsequent adjustment of the roller pitch

Application in deep freeze area



Interroll conveyor modules enable the modular and flexible use of a continual material handling solution at different ambient temperatures.

- Use of 24/48-V roller conveyors and diverters in the deep freeze area of up to -30 °C
- Additional use of belt conveyors in the chill area from 0 to +5 °C

Assembly from the top



Assembly and maintenance of all modules with little effort.

- Maintenance of roller and belt conveyors from the top
- Easily accessible components and connections
- Tool-free roller assembly with roller clips

Universal supports and sensor holders



For quick, flexible installation and exact positioning of side guides, sensors and reflectors for efficient material flow.

- Fixed and flexible universal supports
- Reliable installation and protection of sensors using sensor holders
- Switching state always visible
- Fast repositioning

Flexible side guides



Flexible and safe guidance of products.

- Simple conversion to other conveying good dimensions
- Flexible forming
- Continuous height adjustment

PRODUCT OVERVIEW

Roller conveyors

Straight



RM 8110 | page 14



RM 8310 | page 22

400-V drive



RM 8210/8212 | page 38

Curve



RM 8120 | page 16



RM 8320 | page 26



RM 8220 | page 42

Merge



RM 8330 | page 30



RM 8230 | page 44





RM 8340 | page 34

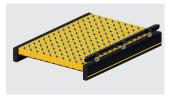


RM 8240 | page 46

Ball table



RM 8130 | page 18



RM 8140 | page 20

Belt conveyors

Straight





RM 8350 | page 48

400-V drive



RM 8410/8420 | page 52



RM 8411/8421 | page 54



RM 8432/8442 | page 56



RM 8433/8443 | page 60



RM 8434/8444 | page 64

Curve



RM 8360 | page 50



Belt curve | page 68





RM 8455 | page 70

PRODUCT OVERVIEW

Key products



RM 8711/8712 | page 72



RM 8731 | page 74



RM 8830 | page 76



RM 6006 | page 78



RM 6008 | page 80



Spiral Lift | page 82



RM 8811 | page 84



RM 8812 | page 86



MultiControl AI | page 88



MultiControl BI | page 92

PRODUCT OVERVIEW

Accessories



RM 8841 | page 96



HP5424 | page 98



HP5448 | page 102



Sensor kit | page 105



Reflector kit | page 105



Universal support, fixed | page 105



Universal support, flexible | page 105



Side guide | page 106



Side guide holder | page 106



Side guide connector | page 106



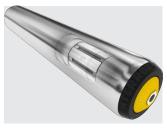
End cap for side guide profile | page 106



End cap for side profile | page 107



Actuator | page 107



Magnetic Speed Controller 50 | page 107

Straight Not powered



24V

48V

400V

Product description

The non-powered straight roller conveyor transports conveying goods either manually or via gravity down a slope and is used as an assembly and picking line.

The magnetic speed controller MSC 50 can be installed for controlled speed regulation. These gearless, mechanical eddy current brakes reliably decelerate conveying goods from 0.5 kg up to 35 kg, and increase functionality and safety in the workplace. For more information, please contact your Interroll contact person.

- · Please order the magnetic speed controller MSC 50 separately
- · The module is fully assembled
- · Please order supports and end caps separately



15

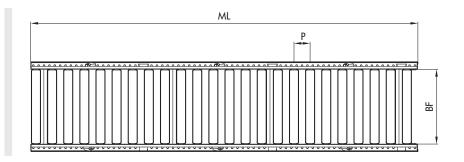
ROLLER CONVEYOR RM 8110

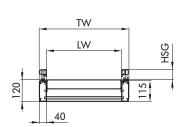
Straight Not powered

Technical data

General technical data	
Max. load capacity	100 kg/m (standard)
Incline/decline	Suitable for declines, but will have to be tested for the respective material weight
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C
Roller	
Roller type	Interroll Series 1100 and Interroll Series 1700
Roller diameter	50 mm
Roller material	Zinc-plated steel, PVC

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML	Module length	Max. 4080 mm
TW	Module width	BF + 80 mm
Р	Roller pitch	60/90/120 mm
HSG	Side guide height	35 – 65 mm

Curve Not powered



24V

48V

400V

Product description

The non-powered roller conveyor curve changes the transport direction of materials. Material is manually pushed around the curve. The alignment of the material is maintained within the side frames by tapered rollers.

- · The module is fully assembled
- · Please order supports and end caps separately

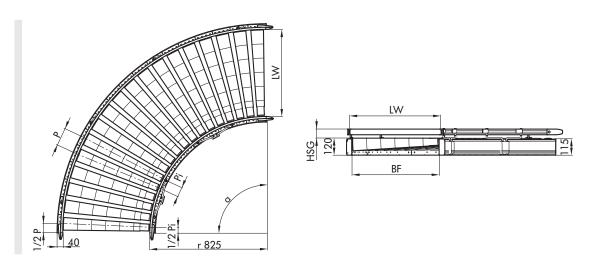


Curve Not powered

Technical data

General technical data	
Max. load capacity	100 kg/m (standard)
Incline/decline	Not suitable
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C
Roller	
Roller type	Interroll Series 1700KXO
Roller diameter	50 mm
Roller material	Steel 1.5 mm, with gray tapered polypropylene sleeves
Max. number of rollers per zone	6 for 30°, 9 for 45°, 12 for 60°, 18 for 90°

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
α	Bracket	30°/45°/60°/90°
TW	Module width	BF + 80 mm
Pi	Roller pitch, inside	~72 mm
Р	Roller pitch, outside	~(0.087 x LW) + Pi mm
HSG	Side guide height	35 – 65 mm

Ball table Not powered



24V

48V

400V

Product description

The ball table transports materials with a solid bottom in any direction using very little force. It is especially suitable for workstation & inspection areas. So that a ball table can be combined with other conveyors, it is installed in a standard side profile.

- · The module is fully assembled
- · Please order supports and end caps separately

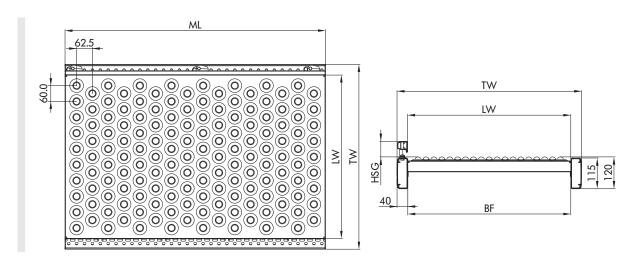


Ball table Not powered

Technical data

General technical data	
Max. load capacity	100 kg/m
Incline/decline	Not suitable
Ambient temperature	−5 to +40 °C
Ball	
Ball type	Interroll Series 5500
Ball diameter	25.4 mm

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML	Module length	Max. 2040 mm
TW	Module width	BF + 80 mm
Р	Pitch	60 mm
HSG	Side guide height	35 – 65 mm

Omni-wheel table Not powered



24V

48V

1001/

Product description

The omni wheel table with multi-directional wheels is particularly well suited for workstation and inspection areas and for materials with soft bottoms that can be moved in all directions with very little force.

- · The module is fully assembled
- · Please order supports and end caps separately

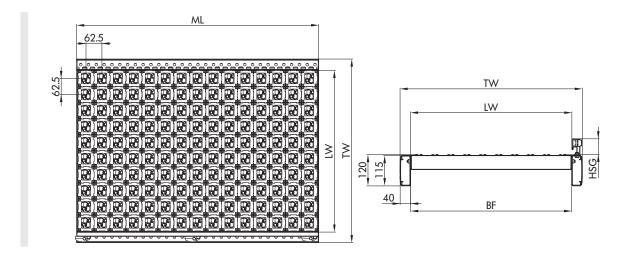


Omni-wheel table Not powered

Technical data

General technical data	
Max. load capacity	60 kg/m
Incline/decline	Not suitable
Ambient temperature	−5 to +50 °C
Roller	
Roller type	Interroll Series 2800
Roller diameter	48 mm
Roller material	Polyamide, polypropylene housing

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML	Module length	Max. 2040 mm
TW	Module width	BF + 80 mm
Р	Pitch	62.5 mm
HSG	Side guide height	35 – 65 mm

Straight Powered



24V

48V

400V

Product description

The DC roller conveyor enables zero pressure accumulation transport of goods with the help of a control system. Each zone is driven by a RollerDrive that is connected to a fixed number of idlers via PolyVee belts.

- · Supply incl. 1 sensor per conveyor/zone
- · Supply incl. bus (communication) cable
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



Straight Powered

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° (standard)
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C
Roller	
Roller type	Interroll Series 3500
Roller diameter	50 mm
Roller material	Steel 1.5 mm, zinc-plated
Max. number of rollers per zone	20
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Drive medium	PolyVee belts
Torque transmission	Roller-to-Roller
Control	MultiControl

^{*}The combination of maximum values is not always possible.

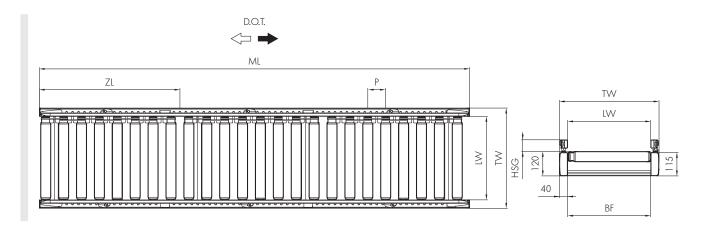
Straight Powered



Dimensions

48V

400V



BF Rated width 420, 620, 840 mm (others on request) LW Lane width BF (+120/-90 mm per side with flexible side guide) ML Module length ZL x number of zones, max. 4320 mm
ML Module length ZL x number of zones, max. 4320 mm
71 7 1 1 1 1 1 1 1 1
ZL Zone length Number of rollers x P
TW Module width BF + 80 mm
P Roller pitch 60/90/120/150 mm
HSG Side guide height 35 – 65 mm

Straight Powered

Curve Powered



24V

48V

400V

Product description

The DC roller conveyor curves change the direction of transport of conveying goods. The tapered rollers retain the alignment of the conveying goods between the side frames. A control system enables zero pressure accumulation transport. Each zone is driven by a DC RollerDrive that is connected to a fixed number of idlers via round belts.

- · Supply incl. 1 sensor per conveyor/zone
- · Supply incl. bus (communication) cable
- · Supply without bus (communication) cable
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



Curve Powered

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	Not suitable
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C
Roller	
Roller type	Interroll Series 1700KXO
Roller diameter	50 mm
Roller material	Steel 1.5 mm, with gray tapered polypropylene sleeves
Max. number of rollers per zone	6 for 30°, 9 for 45°, 12 for 60°, 18 for 90°
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Drive medium	Round belt
Torque transmission	Roller-to-Roller
Control	MultiControl

^{*}The combination of maximum values is not always possible.

© 09 | 2019 Interroll

27

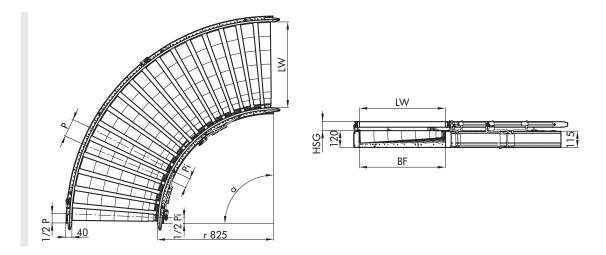
Curve Powered



Dimensions

48V

400V



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
α	Bracket	30°/45°/60°/90°
TW	Module width	BF + 80 mm
Pi	Roller pitch, inside	~72 mm
Р	Roller pitch, outside	~(0.087 x LW) + Pi mm
HSG	Side guide height	35 – 65 mm

Curve Powered

Merge Powered



24V



400V

Product description

The merge merges two conveyor lines by placing products in the gaps in the flow of material. Alternatively, the merge diverts products from a straight conveyor, e.g., by using an HPD (High Performance Divert).

- · Supply incl. 1 sensor per conveyor/zone
- · Supply incl. bus (communication) cable
- · Supply without bus (communication) cable
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



Merge Powered

Technical data

General technical data	
Max. load capacity*	50 kg/m
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	Normal range 0 to $+40$ °C, chill 0 to $+5$ °C, and deep freeze -30 to 0 °C
Roller	
Roller type	Interroll Series 3500
Roller diameter	50 mm
Roller material	Steel 1.5 mm, zinc-plated
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Drive medium	PolyVee belts
Torque transmission	Roller-to-Roller
Control	MultiControl

^{*}The combination of maximum values is not always possible.

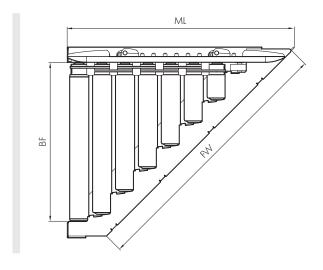
Merge Powered

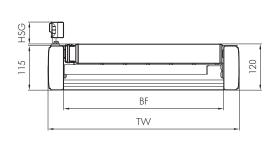


Dimensions

48V

400V





BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML	Module length	See application notes Roller merge dimensions
TW	Module width	BF + 80 mm
FW	Opening width	See application notes Roller merge dimensions
α	Bracket	30°/45°
Р	Roller pitch	60 mm
HSG	Side guide height	35 – 65 mm

Merge Powered

Alignment conveyor Powered



24V

48V

400V

34

Product description

The 24-V alignment conveyor guides products diagonally to the transport direction to a side frame, and aligns them to the side guide if necessary. The side guide must be suitable for this purpose.

- · Supply incl. 1 sensor per conveyor/zone
- · Supply incl. bus (communication) cable
- · Supply incl. rolling or gliding side guides on one side
- · Supply without bus (communication) cable
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



35

ROLLER CONVEYOR RM 8340

Alignment conveyor Powered

Technical data

General technical data	
Max. load capacity*	50 kg/m
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	Interroll Series 3500
Roller diameter	50 mm
Roller material	Steel 1.5 mm, zinc-plated
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Drive medium	Round belt
Torque transmission	Roller-to-roller
Control	MultiControl

^{*}The combination of maximum values is not always possible.

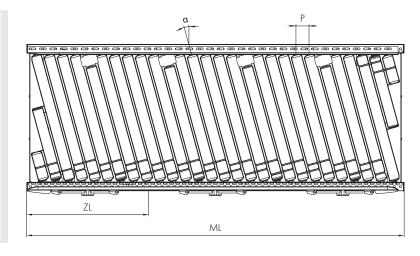
Alignment conveyor Powered

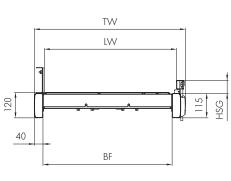


Dimensions

48V

400V





BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm on one side)
ML	Module length	ZL x number of zones
ZL	Zone length	Depending on angle and measure between frames
TW	Module width	BF + 80 mm
Р	Roller pitch	60 mm
α	Angle of rollers	7°/15.2°
HSG	Side guide height	35 – 65 mm

ROLLER CONVEYOR RM 8340

Alignment conveyor Powered

ROLLER CONVEYOR RM 8210/8212

Straight Powered



24V

18V

00V

Product description

The roller conveyor powered by 400/460 V is available in 2 operating modes.

The permanently powered flat belt conveyor RM 8210 serves as a transport conveyor that requires only one 400/460-V drive for long distances up to 15 m.

With the use of electrical actuators, the conveyor can also be operated as zero pressure accumulation conveyor (RM 8212), either completely or partially. These actuators, which can also be retrofitted, are powered by 24-V drives and can be controlled by the Interroll controllers for zero pressure accumulation operation.

Scope of delivery

- · Supply incl. 1 sensor per conveyor/zone
- · Delivery without bus (communication) cable for zero pressure accumulation variant
- · Module is completely assembled, except for the flat belt
- Zero pressure accumulation version is prewired
- · Please order supports and end caps separately

Actuators for generating an accumulation zone can generally be retrofitted. When ordering, please remember that rollers with PolyVee head are required.



ROLLER CONVEYOR RM 8210/8212

Straight Powered

Technical data

General technical data	
Max. load capacity*	50 kg/m
Transport conveyor speed*	0.1 to 2.0 m/s (at 50 kg/m or zone)
Zero pressure accumulation conveyor speed*	0.1 to 1.4 m/s
Incline/decline	Not suitable
Ambient temperature	+5 to +40 °C
Roller	
Roller type	Interroll Series 1700 and Series 3500 (zone conveyor)
Roller diameter	50 mm
Roller material	0. 115
TOTAL THE TOTAL	Steel 1.5 mm, zinc-plated
Drive	Steel 1.5 mm, zinc-plated
	Steel 1.5 mm, zinc-plated 400 V
Drive	
Drive Rated voltage	400 V
Drive Rated voltage Rated voltage, actuator	400 V 24 V

^{*}The combination of maximum values is not always possible.

ROLLER CONVEYOR RM 8210/8212

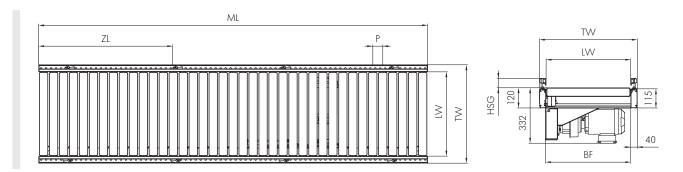
Straight Powered



Dimensions

48V

400V



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML*	Transport module length	Max. 12000 mm
	Zero pressure accumulation module length	Max. 6000 mm, ZL x number of zones (max. 6 zones per 400 V drive)
ZL	Zone length (optional)	Number of rollers x P
TW	Module width	BF + 80 mm
Р	Roller pitch	60/90/120 mm
HSG	Side guide height	35 – 65 mm

^{*}If a slave curve is driven by a straight conveyor, the max. module length is reduced by 3000 mm, for 2 curves by 6000 mm.

ROLLER CONVEYOR RM 8210/8212

Straight Powered

ROLLER CONVEYOR RM 8220

Curve Powered



24V

48V

00V

Product description

The roller conveyor curves change the direction of transport of the material. The alignment of the material is maintained within the side frames by tapered rollers. The flat belt-driven curve is driven either by an adjacent straight module or by a separate head drive. Accumulation mode is not possible in powered 400/460-V curves.

- · Supply incl. 1 sensor
- · Module is completely assembled, except for the flat belt
- · Please order supports and end caps separately



ROLLER CONVEYOR RM 8220

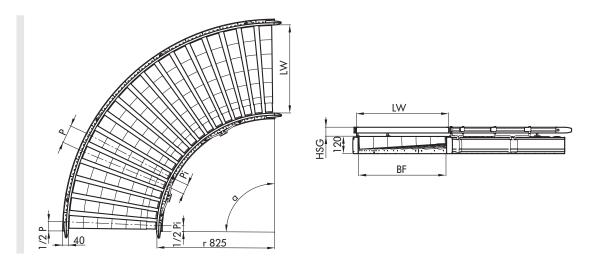
Curve Powered

Technical data

50 kg/m
0.1 to 2.0 m/s
Not suitable
+5 to +40 °C
Interroll Series 1700
50 mm
Steel 1.5 mm, zinc-plated
6 for 30°, 9 for 45°, 12 for 60°, 18 for 90°

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
α	Bracket	30°/45°/60°/90°
TW	Module width	BF + 80 mm
Pi	Roller pitch, inside	~72 mm
Р	Roller pitch, outside	~(0.087 x LW) + Pi mm
HSG	Side guide height	35 – 65 mm

ROLLER CONVEYOR RM 8230

Merge Powered



24V

48V

100V

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.

- · Supply incl. 1 sensor
- · Supply without bus (communication) cable
- \cdot Module is completely assembled, except for the flat belt
- · Please order supports and end caps separately



ROLLER CONVEYOR RM 8230

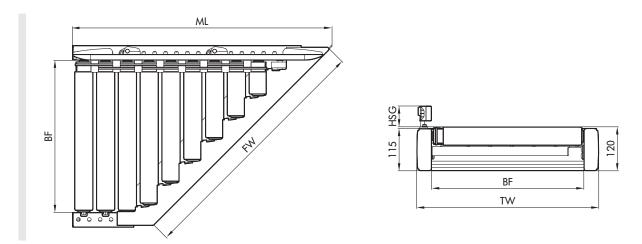
Merge Powered

Technical data

Max. load capacity* 50 kg/m Conveyor speed* 0.1 to 2.0 m/s Incline/decline Not suitable Ambient temperature +5 to +40 °C Roller Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm		
Conveyor speed* O.1 to 2.0 m/s Incline/decline Not suitable Ambient temperature +5 to +40 °C Roller Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm	General technical data	
Incline/decline Ambient temperature +5 to +40 °C Roller Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm	Max. load capacity*	50 kg/m
Ambient temperature +5 to +40 °C Roller Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm	Conveyor speed*	0.1 to 2.0 m/s
Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm	Incline/decline	Not suitable
Roller type Interroll Series 1700 and Interroll Series 3500 Roller diameter 50 mm	Ambient temperature	+5 to +40 °C
Roller diameter 50 mm	Roller	
	Roller type	Interroll Series 1700 and Interroll Series 3500
0.115	Roller diameter	50 mm
Koller material Steel 1.5 mm, zinc-plated	Roller material	Steel 1.5 mm, zinc-plated

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/–90 mm per side with flexible side guide)
ML	Module length	See application notes Roller merge dimensions
TW	Module width	BF + 80 mm
FW	Opening width	See application notes Roller merge dimensions
α	Bracket	30°/45°
Р	Roller pitch	60 mm
HSG	Side guide height	35 – 65 mm

ROLLER CONVEYOR RM 8240

Alignment conveyor Powered



24V

101/

100V

Product description

The alignment conveyor guides products diagonally to the transport direction to a side frame and aligns them to the side guide, if necessary. The side guide must be suitable for this purpose.

- · Supply incl. 1 sensor
- \cdot Module is completely assembled, except for the flat belt
- · Please order supports and end caps separately



ROLLER CONVEYOR RM 8240

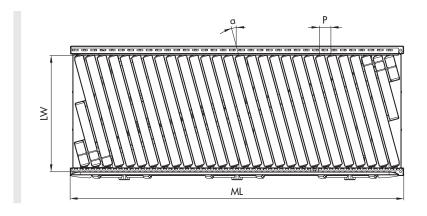
Alignment conveyor Powered

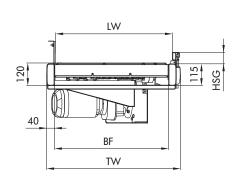
Technical data

General technical data	
Max. load capacity*	50 kg/m
Conveyor speed*	0.1 to 1.4 m/s (at 50 kg)
Incline/decline	Not suitable
Ambient temperature	−5 to +50 °C
Roller	
Roller type	Interroll Series 1700 and Interroll Series 3500
Roller diameter	50 mm
Roller material	Steel, zinc-plated
Drive	
Rated voltage	400 V
Drive medium	Flat belt

^{*}The combination of maximum values is not always possible.

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)
ML	Module length	Max. 2040 mm
TW	Module width	BF + 80 mm
Р	Roller pitch	60 mm
α	Angle of rollers	7°/15.2°
HSG	Side guide height	35 – 65 mm

Straight Powered



24V

48V

400V

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 Interroll RollerDrive. It is possible to transport and accumulate small products, as well as products not suitable for roller tracks. Not suitable for reversing operation.

Scope of delivery

- · Supply incl. 1 sensor per zone
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



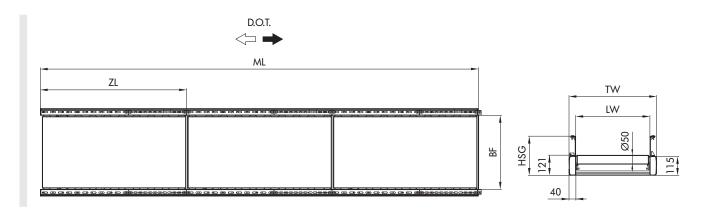
Straight Powered

Technical data

General technical data	
Max. load capacity per zone*	50 kg
Conveyor speed*	Max. 0.8 m/s
Incline/decline*	Max. 15°
Ambient temperature	+5 to +40 °C
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Diameter of drive roller	50 mm
Control	MultiControl
Material	
Conveyor belt	Polyester with PVC coating
Slider bed	Rollers, Interroll Series 1700

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (min. 360 mm, max. 840 mm) (others on request)
LW	Lane width	BF
ML	Module length	ZL x number of zones, max. 4080 mm
ZL	Zone length	Number of rollers x P, max. 1980 mm
TW	Module width	BF + 80 mm
Р	Roller pitch	90 mm under the belt, 60 mm between the zones
HSG	Side guide height	120 mm

Curve Powered



24V

18V

400V

Product description

The Belt Curve Light is a belt curve that is divided into zones and operates with zero pressure accumulation; its drive is based on the Interroll RollerDrive. It is possible to transport and store small products, as well as products not suitable for roller tracks. Not suitable for reversing operation.

- · Supply incl. 1 sensor per zone
- · Module is completely assembled and prewired
- · Please order supports and end caps separately



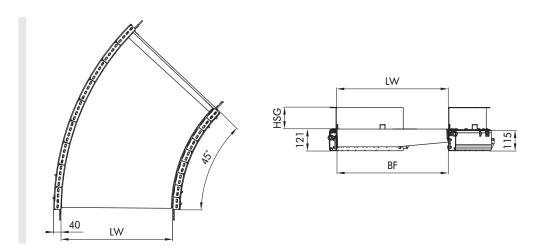
Curve Powered

Technical data

General technical data	
Max. load capacity per zone*	20 kg
Conveyor speed*	Max. 0.5 m/s
Incline/decline	Not suitable
Ambient temperature	+5 to +40 °C
Drive	
Rated voltage	24/48 V
Motor type	Interroll RollerDrive EC5000
Number of zones (N)	1 at 45°, 2 at 90°
Control	MultiControl
Material	
Conveyor belt	Polyester with PVC coating
Slider bed	Rollers, Interroll Series 1700

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620 mm (others on request)
LW	Lane width	BF
α	Bracket	1 x 45°/90° (2 x 45°)
TW	Module width	BF + 80 mm
HSG	Side guide height	120 mm

Straight Head drive



24V

48V

400V

Product description

The belt conveyor is used for the transport of goods that are not suitable for roller tracks, and for all types of goods on inclines and declines.

The belt conveyor is available with gear motor (BM 8410) or drum motor (BM 8420).

The design with gear motor (BM 8410) can also be used in the chill area.

- · Supply incl. 1 sensor
- · The module is fully assembled
- · Please order supports separately



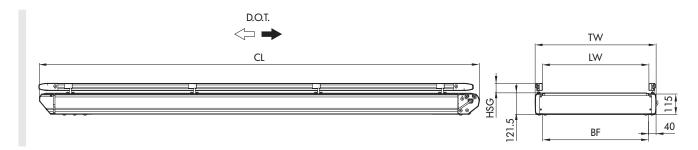
Straight Head drive

Technical data

General technical data		
Max. load capacity*	50 kg/m (standard)	
Max. load capacity per module*	220 kg	
Conveyor speed*	0.1 to 2.5 m/s	
Incline/decline	Max. 6°	
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C	
Drive		
Rated voltage	400 V	
Electrical power	Max. 1.1 kW	
Motor type	Drum motor/gear motor	
Materials		
Conveyor belt	Level: smooth, 2-layer, PVC; rising/falling gradient: grooved longitudinally	
Slider bed	Zinc-plated sheet steel 2.5 mm; zinc-plated sheet steel 3 mm (from measure between frames = 840 mm)	

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)	
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)	
CL	Module length	550 - 3000 mm	
TW	Module width	BF + 80 mm	
HSG	Side guide height	35 – 65 mm	

Straight Center drive



24V

18V

400V

Product description

The belt conveyor is used for the transport of goods that are not suitable for roller tracks, and for all types of goods on inclines and declines.

The belt conveyor is available with gear motor (BM 8411) or drum motor (BM 8421).

The design with gear motor (BM 8411) can also be used in the chill area.

- · Supply incl. 1 sensor
- · Module is completely assembled, maybe split into sections
- · Please order supports and end caps separately



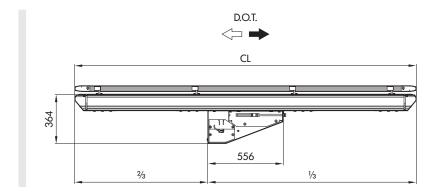
Straight Center drive

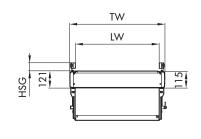
Technical data

General technical data		
Max. load capacity*	50 kg/m (standard)	
Max. load capacity per module*	550 kg	
Conveyor speed*	0.1 to 2.5 m/s	
Incline/decline	Max. 18°	
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze -30 to 0 °C	
Drive		
Rated voltage	400 V	
Electrical power	Max. 3 kW	
Motor type	Drum motor/gear motor	
Materials		
Conveyor belt	Level: smooth, 2-layer, PVC; rising/falling gradient: grooved longitudinally, 2-layer, PVC	
Slider bed	Zinc-plated sheet steel 2.5 mm; zinc-plated sheet steel 3 mm (from BF = 840 mm)	

^{*}The combination of maximum values is not always possible.

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)	
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)	
CL	Module length	1500 to 20010 mm	
TW	Module width	BF + 80 mm	
HSG	Side guide height	35 – 65 mm	

Straight
Center drive + upper arch



24V

48V

100V

Product description

The belt conveyor with top arch is used for transporting all types of goods on inclines or declines. The arch reduces noise and the impact of material as it pass over the arch.

The belt conveyor is available with gear motor (BM 8432) or drum motor (BM 8442).

The design with gear motor (BM 8432) can also be used in the chill area.

- · Supply incl. 1 sensor
- · Module is completely assembled, maybe split into sections
- · Please order supports and end caps separately



Straight Center drive + upper arch

Technical data

General technical data		
Max. load capacity*	50 kg/m (standard)	
Max. load capacity per module*	550 kg	
Conveyor speed*	0.1 to 2.5 m/s (at 50 kg)	
Incline/decline	Max. 18°	
Ambient temperature	Normal range 0 to $+40$ °C, chill 0 to $+5$ °C, and deep freeze -30 to 0 °C	
Drive		
Rated voltage	400 V	
Electrical power	Max. 3 kW	
Motor type	Drum motor/gear motor	
Materials		
Conveyor belt	2-layer, PVC, grooved longitudinally	
Slider bed	Sheet steel 2 mm	

^{*}The combination of maximum values is not always possible.

Straight
Center drive + upper arch

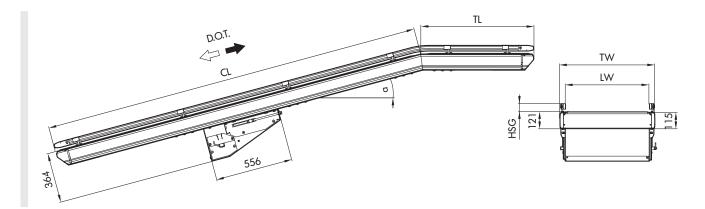


24V

48V

400V

Dimensions



BF	Rated width	420, 620, 840 mm (others on request)	
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)	
CL	Module length	1500 to 20010 mm	
TL	Top length	720 to 2160 mm	
TW	Module width	BF + 80 mm	
HSG	Side guide height	35 – 65 mm	
α	Incline/Decline angle	6°/9°/12°/15°/18°	

Straight Center drive + upper arch

Straight
Center drive + feed



24V

101/

100V

Product description

The belt conveyor with feed is used for transporting all types of goods on inclines or declines. The feed enables a smooth transition at the lower kink of the belt conveyor, e.g., at the interface with a roller conveyor.

The belt conveyor is available with gear motor (BM 8433) or drum motor (BM 8443).

The design with gear motor (BM 8433) can also be used in the chill area.

- · Supply incl. 1 sensor
- · Module is completely assembled, maybe split into sections
- · Please order supports and end caps separately



Straight Center drive + feed

Technical data

General technical data		
Max. load capacity*	50 kg/m (standard)	
Max. load capacity per module*	550 kg	
Conveyor speed*	0.1 to 2.5 m/s (at 50 kg)	
Incline/decline	Max. 18°	
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C	
Drive		
Rated voltage	400 V	
Electrical power	Max. 3 kW	
Motor type	Drum motor/gear motor	
Materials		
Conveyor belt	2-layer, PVC, grooved longitudinally	
Slider bed	Sheet steel 2 mm	

^{*}The combination of maximum values is not always possible.

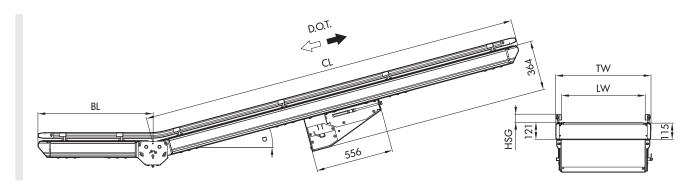
Straight
Center drive + feed



V Dimensions

48V

400V



BF	Rated width	420, 620, 840 mm (others on request)	
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)	
CL	Module length	1500 to 20010 mm	
BL	Bottom length	720 to 1020 mm	
TW	Module width	BF + 80 mm	
HSG	Side guide height	35 – 65 mm	
α	Incline/Decline angle	6°/9°/12°/15°/18°	

Straight Center drive + feed

Straight

Center drive + upper arch + feed



24V

48V

100V

Product description

The belt conveyor is used for transporting all types of goods on inclines and declines. Arch and feed allow a smooth and more quiet transition at the upper and lower kink. The belt conveyor is available with gear motor (BM 8434) or drum motor (BM 8444).

The design with gear motor (BM 8434) can also be used in the chill area.

- · Supply incl. 1 sensor
- · Module is completely assembled, maybe split into sections
- · Please order supports and end caps separately



Straight Center drive + upper arch + feed

Technical data

General technical data		
Max. load capacity*	50 kg/m (standard)	
Max. load capacity per module*	550 kg	
Conveyor speed*	0.1 to 2.5 m/s (at 50 kg)	
Incline/decline	Max. 18°	
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze –30 to 0 °C	
Drive		
Rated voltage	400 V	
Electrical power	Max. 3 kW	
Motor type	Drum motor/gear motor	
Materials		
Conveyor belt	2-layer, PVC, grooved longitudinally	
Slider bed	Sheet steel 2 mm	

^{*}The combination of maximum values is not always possible.

Straight

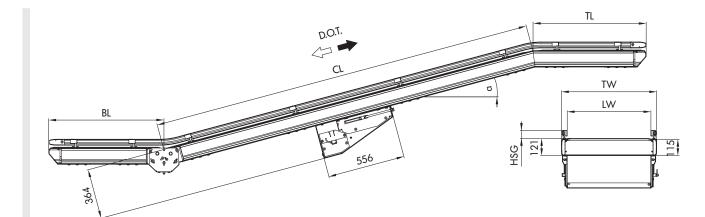
Center drive + upper arch + feed



48V

400V

V Dimensions



BF	Rated width	420, 620, 840 mm (others on request)	
LW	Lane width	BF (+120/-90 mm per side with flexible side guide)	
CL	Module length	1500 to 20010 mm	
TL	Top length	720 to 2160 mm	
BL	Bottom length	720 to 1020 mm	
TW	Module width	BF + 80 mm	
HSG	Side guide height	35 – 65 mm	
α	Incline/Decline angle	6°/9°/12°/15°/18°	

Straight Center drive + upper arch + feed

BELT CONVEYORS BELT CURVE



24V

48V

400V

Product description

With a conveyor speed of more than 2.85 m/s, the 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 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.

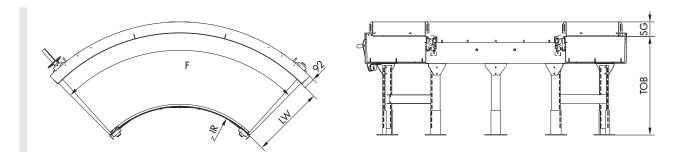


Technical data

General technical data		
Max. load capacity*	75 kg/m	
Rated voltage	400 V	
Conveyor speed*	Max. 2.85 m/s	
Ambient temperature	Normal range 0 to +40 °C, chill 0 to +5 °C, and deep freeze -30 to 0 °C	
Material		
Conveyor belt	FLEXAM EF 10/2 0+A22 BLACK AS FR others upon request	
Slider bed	2.5 mm sheet steel	
Color	All RAL colors are possible.	

^{*}The combination of maximum values is not always possible.

Dimensions



F	Bracket	15° – 180°
IR	Inside radius	300 – 4267 mm
LW	Lane width	300 – 1600 mm
T.O.B.	Conveying height	600 – 3000 mm
SG	Side guide height	120 – 3000 mm
	Other sizes on request.	

Strip merge



24V

48V

400V

Product description

Strip merge is a belt conveyor with a connecting side angled by 30° or 45°. This conveyor unit allows for merging two conveyor lines at the corresponding angle. By using additional sorting elements, strip merge also allows for separating the material flow. The conveyor belts are available in widths of 90 mm and 50 mm for very small goods. The strip merge has a particularly low overall height of 150 mm.

- · The module is fully assembled
- · Please order support stands, side guides and sensors separately

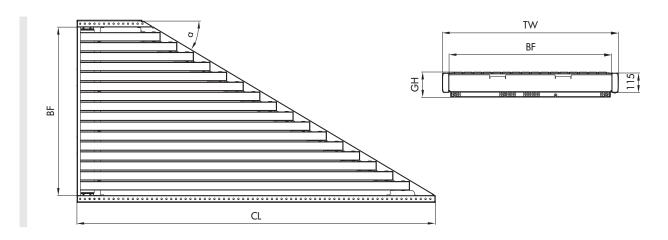


Roller conveyor

Technical data

General technical data	
Max. load capacity	50 kg
Conveyor speed	0.1 to 4.0 m/s
Incline/decline	Not suitable
Ambient temperature	+5 to +40 °C
Drive	
Rated voltage	400 V/50 Hz/3 phases
Electrical power	425 W
Motor type	Interroll Synchronous Drum Motor
Diameter of drive roller	101 mm, with lagging
Diameter of idler pulley	70 mm
Materials	
Conveyor belt	Elastic belt, structured surface, flame-resistant in compliance with DIN EN 20340, belt width 50 or 90 mm
Slider bed	Sheet steel

Dimensions



α	Angle	30°/45°
BF	Rated width	420, 620, 840, 1020, 1220 mm
GH	Overall height	150 mm
	Medium length	See application notes, page 119
TW	Module width	BF + 80 mm

KEY PRODUCTS

RM 8711 HIGH PERFORMANCE DIVERT (HPD) 24/48-V MASTER

RM 8712 High Performance Divert (HPD) 400-V Master



24V

48V

100V

Product description

The High Performance Divert (HPD) is used for diverting unit loads, preferably with smooth bottom surfaces, at different angles onto a lateral track to the right or to the left. The HPD is available in two drive variants:

HPD 24/48-V master, for which 24/48-V motors are used as travel and swivel drives

HPD 400/460-V master, for which the travel drive from the flat belt conveyor is used, and the swivel drive is powered by a separate 24/48-V motor

One HPD module can consist of several cassettes, each 120 mm long, depending on the size of the product.

- · When used in zone conveyor, supply incl. sensor kit and cable set
- · Supply incl. fastening set, side guide kit and control card
- · Supply without roller conveyor



KEY PRODUCTS RM 8711 HIGH PERFORMANCE DIVERT (HPD) 24/48-V MASTER

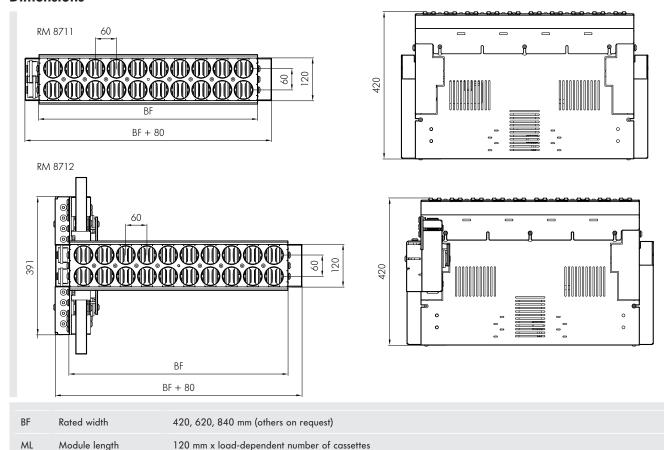
RM 8712 High Performance Divert (HPD) 400-V Master

Technical data

	RM 8711	RM 8712
General technical data		
Max. load capacity*	50 kg	50 kg
Max. wheel speed*	1.4 m/s	Same as roller conveyor
Swiveling time	0.3 s per 90°	0.3 s per 90°
Diverting angle	30°/45°/90°	30°/45°/90°
Ambient temperature	+5 to +40 °C	+5 to +40 °C
Swivel motor drive		
Rated voltage	24/48 V	24/48 V
Travel motor drive		
Rated voltage	24/48 V	Slave-driven from 400-V flat belt conveyor
Control variants	MultiControl	MultiControl

^{*}The combination of maximum values is not always possible.

Dimensions



KEY PRODUCTS TRANSFER RM 8731



24V

48V

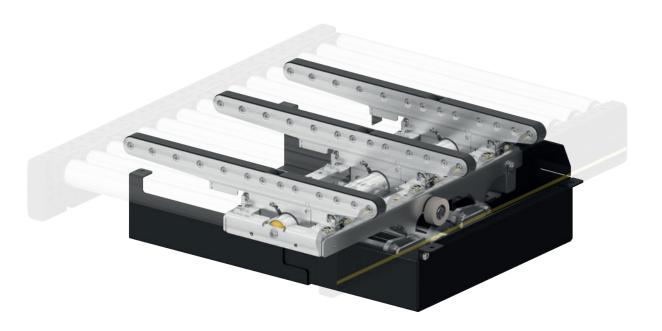
400V

Product description

The 24/48-V transfer is used for diverting or merging suitable conveying goods onto a roller track at a 90° angle. In the process, the unit load changes direction and orientation, i.e. the side of the product becomes the leading edge or that orientation is reversed.

Scope of delivery

- $\cdot\,\,$ When used in zone conveyor, supply incl. sensor kit and cable set
- · Supply incl. fastening set, side guide kit and control card
- · Supply without roller conveyor

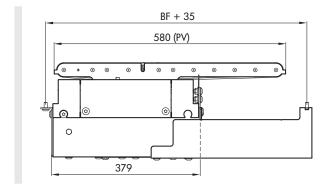


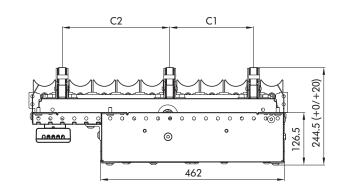
Technical data

-	
General technical data	
Max. load capacity*	50 kg (standard) 25 kg (chill)
Belt speed	
Lifting time	0.3 s
Incline/decline	Not suitable
Ambient temperature	Normal range 0 to $+40$ °C, chill 0 to $+5$ °C, and deep freeze -30 to 0 °C
Stroke and belt drive	
Rated voltage	24 V/48 V (drive motor and lift motor)
Control	MultiControl

^{*}The combination of maximum values is not always possible.

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
C1 to C5	Blade distance	Flexible distances in multiples of 60 mm or 90 mm
	Number of blades	Max. 5

KEY PRODUCTS RM 8830

Lift-Up Gate



24V

48V

400V

Product description

The lift-up gate swivels upward to provide a walkway, or access from one side of the conveyor to the other. This allows access to the rear of the conveyor, and the ability to plan quicker escape routes, in case of an emergency. The pivoting movement is operated by an innovative rotary mechanism.

Scope of delivery

- · Please order fitted conveyor module separately
- · The module is fully assembled



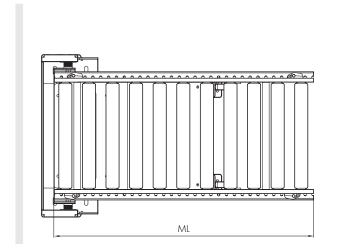
RM 8830 Lift-Up Gate

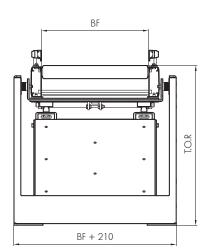
Technical data

General technical data	
Max. load capacity*	100 kg (incl. fitted module)
Ambient temperature	-5 to +40 °C
Incline/decline	Not suitable

^{*}The combination of maximum values is not always possible.

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
T.O.R.	Min. height of top edge of roller	700 mm
		1000 - 1000
ML	Module length	1000 to 1300 mm
	Channel width	ML – 240 mm

KEY PRODUCTS RM 6006

Lift



24V

48V

100V

Product description

The lifting station consists of a column construction and a carriage upon which a roller conveyor is mounted. A worm gear motor with brake is used as a drive unit to raise and lower the carriage via a belt.

Scope of delivery

- · Energy chain is pre-installed
- $\cdot\,$ The module is fully assembled, including sensor system, but is not electrically cabled.
- · Without conveyor module
- · Please request protective grid and safety elements separately

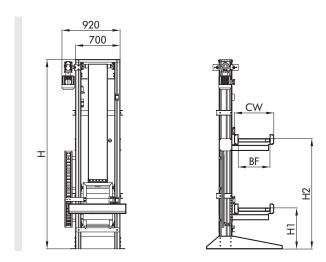


Technical data

General technical data		
Max. load capacity*	150 kg	
Stroke velocity	0.1 to 0.6 m/s	
Ambient temperature	−5 to +40 °C	
Max. stroke height	6000 mm	
Startup position	2	
Lifting column	200 x 80 mm (aluminum profile)	
Drive		
Motor type	Worm gear motor with brake, frequency regulation on site	
Rated voltage	400 V/50 Hz/3 phases	
Max. electrical power	2.2 kW	
Drive medium	Belt	

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (when using Interroll modules)
H1	Lower level dimension	Min. 300 mm
H2	Upper level dimension	H1 + stroke height
Н	Overall height	H2 + 600 (max. 8000 mm)
CW	Width of mounted conveyors	Max. 1300 mm

Note: The upper part of the lifting station must be supported on site above an overall height of 4000 mm.

KEY PRODUCTS RM 6008

Lift



24V

48V

100V

Product description

This vertical conveyor consists of a column construction and a carriage upon which conveyor components can be mounted. Lifting motion is performed by two toothed belts. The planned drive is located at the top. Integrating an encoder is possible. This lift can optionally be used at higher speeds and in several approach positions.

Scope of delivery

- · Energy chain is pre-installed
- $\cdot\,$ The module is fully assembled, including sensor system, but is not electrically cabled.
- · Without conveyor module
- · Please request protective grid and safety elements separately

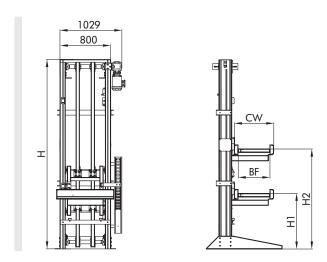


Technical data

General technical data	
Max. load capacity*	250 kg
Stroke velocity	0.1 to 1.0 m/s
Ambient temperature	−5 to +40 °C
Max. stroke height	6000 mm
Startup position	Min. 2
Lifting column	200 x 80 mm (aluminum profile)
Drive	
Motor type	Worm gear motor with brake, frequency regulation on site
Rated voltage	400 V/50 Hz/3 phases
Max. electrical power	2.2 kW
Drive medium	Toothed belt

^{*}The combination of maximum values is not always possible.

Dimensions



BF	Rated width	420, 620, 840 mm (when using Interroll modules)
H1	Lower level dimension	Min. 500 mm
H2	Upper level dimension	H1 + stroke height
Н	Overall height	H2 + 800 (max. 8000 mm)
CW	Width of mounted conveyors	Max. 1300 mm

Note: The upper part of the lifting station must be supported on site above an overall height of 4000 mm.

KEY PRODUCTS SPIRAL LIFT



24V

48V

400V

Product description

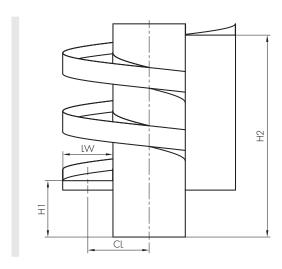
The Interroll Spiral Lift transports boxes, containers and goods inn all shapes and sizes for a variety of industries. The Spiral Lift is available in 45° increments, is extremely quiet during operation and features a small footprint, which allows for an optimal utilization of space. The overlapping slats offer additional safety for the operator. The proven design with rolling friction and rubberized ball bearings allows less friction, which can lead to significant savings in energy. Thanks to its self-tensioning chain drive, the new Spiral Lift is extremely low in maintenance. Access to the chain mechanism is very easy so that the downtime can be reduced to a minimum.



Technical data

0.1 to 0.7 m/s
30 kg/m
4 m with one drive
Interroll drum motor or gear motor
400 V
Drum motor: +5 to +40 °C; gear motor: -5 to +50 °C

Dimensions



CL	Rated width	650 mm
LW	Lane width	500 mm
H1	Height 1	Min. 650 mm
H2	Height 2	H1 + max. 4000 mm

KEY PRODUCTS END STOP RM 8811



24V

48V

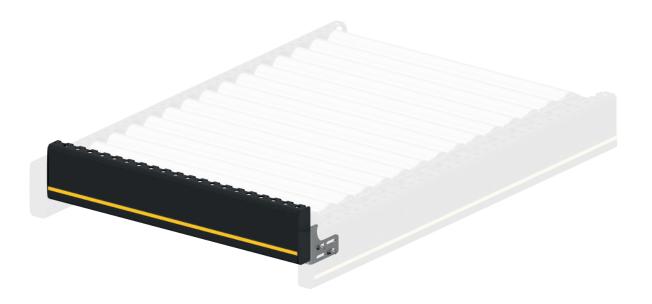
400V

Product description

The end stop is a permanently mounted attachment, for stopping and accumulating of approaching material. The end stop is used at the end of sloped or friction roller conveyors, or as a secure termination of all other conveyor lines.

Scope of delivery

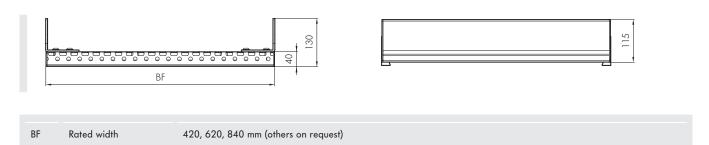
 $\cdot\;$ End stop, incl. fastening material



Technical data



Dimensions



KEY PRODUCTS BLADE STOP RM 8812



24V

48V

400V

Product description

The Interroll blade stop is an electrically operated stop that is raised between the roller pitches in order to stop or accumulate material. Stops are often used in conjunction with conveyor components, such as transfers and pushers, to align products or coordinate processes.

Scope of delivery

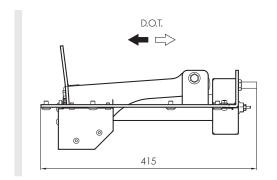
· Module is fully assembled, incl. sensor system and control card

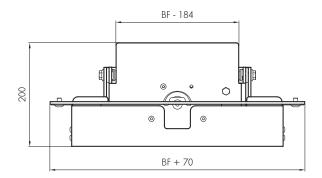


Technical data

100 N
+5 to +40 °C
24/48 V

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
Р	Min. roller pitch	90 mm
ΔS	Stroke	25 mm (5 mm below top edge of roller up to 20 mm above top of roller)

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with analog interface



24V

48V

400V

Application area

Zero-pressure accumulation conveying (ZPA) for systems with medium to high number of conveyor zones. Control of the Interroll Transfer and High Performance Divert as well as Interroll Pallet Drive (via Pallet Control).

Product description

The MultiControl is a four-zone control. This means that up to four RollerDrive EC5000 and four zone sensors can be connected. The use of Y-cables enables connecting four additional inputs or outputs. The connections can be configured individually.

MultiControl is multi-protocol-capable. PROFINET, EtherNet/IP and EtherCat can be used via simple switching.

With help of the MultiControl, sensors and RollerDrive are directly integrated into the field bus level. An additional sensor/actuator level and, as a result, additional communication lines or a gateway become redundant. A standard flat cable is used for power supply. They can simply be cut to the desired length and can be connected very quickly using the piercing technology of MultiControl.

The separate voltage supply allows a safe power-off of the RollerDrive while the bus communication and sensors can continue to be used.

Addressing and naming is done over PLC software, a web user interface, or with the Interroll teach-In method. With the Teach-In method, automatic addressing and configuration of all MultiControl is possible. In addition, the sequence of all MultiControls in the conveyor line can be determined. This saves time during the commissioning on site.



For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with analog interface

Functions

- · Easy handling One control card for PROFINET, EtherNet/IP and EtherCat (simple toggling of bus protocols)
- · Independent power supply for RollerDrive
- Plug & Play in case of replacements no addressing or configuration required
- · Status display with LEDs for all functions and I/Os
- · Integrated logic for zero-pressure accumulation conveying incl. initialization
- Secure communication with the use of certificates: PROFINET Conformance Class B, EtherNet/IP ODVA Conformance, EtherCat Conformance
- · Configuration via PLC, web browser menu and via teach-In method of:
 - Speed, direction of rotation, start and stop ramp of RollerDrive
 - Sensor properties
 - Timer
 - Error handling
- Logic (single/train release)
- · UL-listed
- · Voltage limitation via brake chopper
- Variable process images for optimizing the data volumes transferred between MultiControl and PLC
- · Functional ground connection for shield of communication line
- Polarity reversal protection of voltage supply
- · Short circuit-proof design of voltage supply of inputs and outputs

Possible applications

Use of a PLC	Function of a PLC	Function of MultiControl
No	• None	Implementation of ZPA logic
Yes	Influencing the ZPA logicTracking of conveying goodsError diagnostics	Implementation of ZPA logicImplementation of PLC specifications
Yes	 The PLC must be programmed and controls all connected RollerDrive via this program Tracking of conveying goods and error diagnostics 	 Function as input/output card Transmits the status of all sensors, RollerDrive and, if necessary, error information to the PLC

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with analog interface



24V

48V

400V

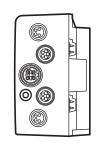
Technical data

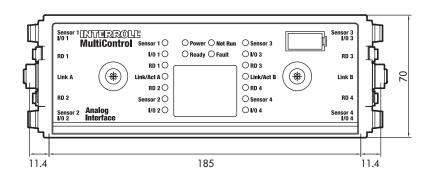
Electrical data	
Rated voltage	24 or 48 V DC
Voltage range	24 V DC: 22 to 28 V DC 48 V DC: 44 to 56 V DC (voltage supply of RollerDrive only)
Current consumption	Logic supply voltage: MultiControl: max. 0.2 A + connected sensors/actuators = max. 1.6 A + current of RollerDrive EC5000*
Fuses	For logicFor RollerDriveFor sensors and I/Os, can be reset
Protection rate	IP54
Ambient conditions	
Ambient temperature in operation	-30 °C to +40 °C
Ambient temperature during transport and storage	-40 °C to +80 °C
Max. installation height above sea level	1000 m**

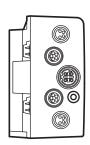
^{*} The power of EC5000 depends on the application, e.g., conveying good weight, conveying speed, acceleration ramp, and on the EC5000 used (refer to the corresponding chapter).

Dimensions

MultiControl



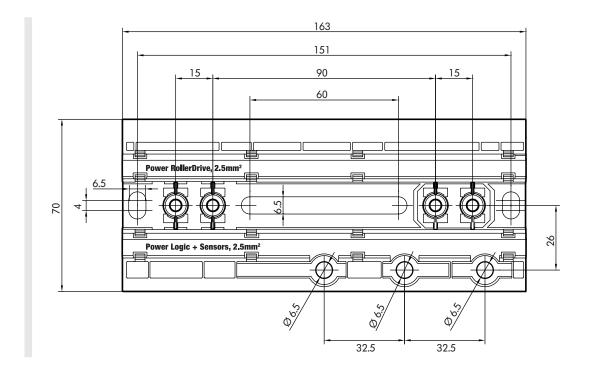




^{**} The installation in systems at an altitude above 1,000 m is possible. However, this can lead to a reduction of the performance values.

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with analog interface

Base plate



To be able to position the magnetic key, the distance from the top edge of MultiControl to adjacent components must be at least 10 mm.

Ordering information

Article number: S-1103563Scope of supply: Base plate

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with bus interface (CANopen)



24V

48V

400V

Application area

Zero-pressure accumulation conveying (ZPA) for systems with medium to high number of conveyor zones. Control of the Interroll Transfer and High Performance Divert as well as Interroll Pallet Drive (via Pallet Control). Control of RollerDrive EC5000 in applications without zero-pressure accumulation conveying or positioning demand.

Product description

The MultiControl is a four-zone control. This means that up to four RollerDrive EC5000 and four zone sensors can be connected. The use of Y-cables enables connecting four additional inputs or outputs. The connections can be configured individually.

MultiControl is multi-protocol-capable. PROFINET, EtherNet/IP and EtherCat can be used via simple switching.

With help of the MultiControl, sensors and RollerDrive are directly integrated into the field bus level. An additional sensor/actuator level and, as a result, additional communication lines or a gateway become redundant. A standard flat cable is used for power supply. They can simply be cut to the desired length and can be connected very quickly using the piercing technology of MultiControl.

The separate voltage supply allows a safe power-off of the RollerDrive while the bus communication and sensors can continue to be used.

Addressing and naming is done over PLC software, a web user interface, or with the Interroll teach-In method. With the Teach-In method, automatic addressing and configuration of all MultiControl is possible. In addition, the sequence of all MultiControls in the conveyor line can be determined. This saves time during the commissioning on site.



For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with bus interface (CANopen)

Functions

- · Easy handling One control card for PROFINET, EtherNet/IP and EtherCat (simple toggling of bus protocols)
- · Independent power supply for RollerDrive
- Plug & Play in case of replacements no addressing or configuration required
- · Status display with LEDs for all functions and I/Os
- · Integrated logic for zero-pressure accumulation conveying incl. initialization
- Secure communication with the use of certificates: PROFINET Conformance Class B, EtherNet/IP ODVA Conformance, EtherCat Conformance
- · Configuration via PLC, web browser menu and via teach-In method of:
 - Speed, direction of rotation, start and stop ramp of RollerDrive
 - Sensor properties
 - Timer
 - Error handling
- Logic (single/train release)
- · UL-listed
- · Voltage limitation via brake chopper
- Variable process images for optimizing the data volumes transferred between MultiControl and PLC
- · Functional ground connection for shield of communication line
- Polarity reversal protection of voltage supply
- · Short circuit-proof design of voltage supply of inputs and outputs
- · Precise error diagnostics of EC5000 Analysis via web browser menu and PLC
- · Automatic addressing of all connected EC5000s
- · Test operation without previous configuration or connection of a PLC
- Positioning the connected EC5000 together with a PLC
- · Analysis of various RollerDrive data via web browser menu and PLC:
 - Operating hours
 - Throughput
 - Temperature of EC5000
 - System status indicators
- Life cycle indicator (allows preventive maintenance, resulting in increased availability)

Possible applications

Use of a PLC	Function of a PLC	Function of MultiControl
No	• None	Implementation of ZPA logic Visualization of EC5000 data
Yes	Influencing the ZPA logicTracking of conveying goodsError diagnostics	Implementation of ZPA logicImplementation of PLC specifications
Yes	 The PLC must be programmed and controls all connected RollerDrive via this program Tracking of conveying goods and error diagnostics Specification of target position in positioning mode 	 Function as input/output card Transmits the status of all sensors, RollerDrive and, if necessary, error information to the PLC

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with bus interface (CANopen)



24V

48V

400V

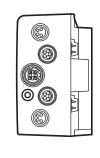
Technical data

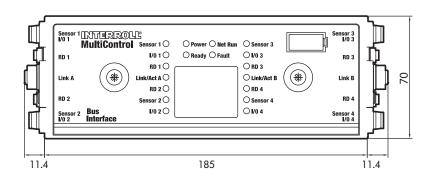
Electrical data	
Rated voltage	24 or 48 V DC
Voltage range	24 V DC: 22 to 28 V DC 48 V DC: 44 to 56 V DC (voltage supply of RollerDrive only)
Current consumption	Logic supply voltage: MultiControl: max. 0.2 A + connected sensors/actuators = max. 1.6 A + current of RollerDrive EC5000*
Fuses	For logicFor RollerDriveFor sensors and I/Os, can be reset
Protection rate	IP54
Ambient conditions	
Ambient temperature in operation	−30 °C to +40 °C
Ambient temperature during transport and storage	-40 °C to +80 °C
Max. installation height above sea level	1000 m**

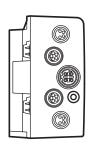
^{*} The power of EC5000 depends on the application, e.g., conveying good weight, conveying speed, acceleration ramp, and on the EC5000 used (refer to the corresponding chapter).

Dimensions

MultiControl



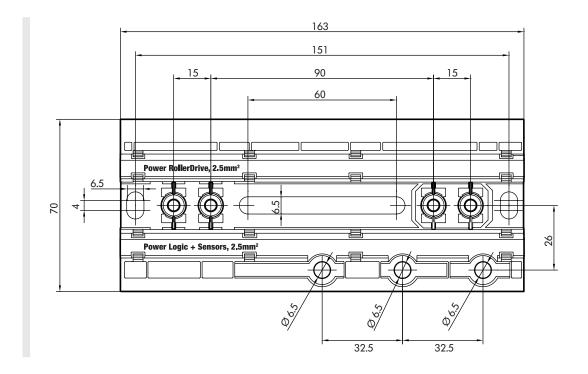




^{**} The installation in systems at an altitude above 1,000 m is possible. However, this can lead to a reduction of the performance values.

For EC5000 24 V, 48 V 20 W, 35 W, 50 W, with bus interface (CANopen)

Base plate



To be able to position the magnetic key, the distance from the top edge of MultiControl to adjacent components must be at least 10 mm.

Accessories

- · Switching power supply HP5424, page 98
- · Switching power supply HP5448, page 102

Ordering information

Article number: S-1103564Scope of supply: Base plate

ACCESSORIES SUPPORT RM 8841



24V

48V

400V

Product description

The support is intended for fastening the conveyors to the floor or lift floor. The support foot is infinitely adjustable. A simple height adjustment via threaded spindle can be ordered as an add-on.

Scope of delivery

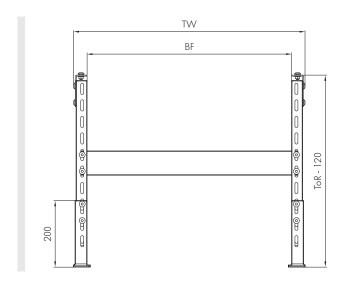
- · Infinite height adjustment with optional threaded spindle
- · Support fully assembled

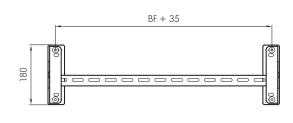


Technical data

General technical data	
Max. load capacity	200 kg
Min. support height	450 mm
Side profile	
Dimensions	77 x 32 mm
Number of crossbars	1 for 450 to 800 mm height of roller top edge 2 for 800 to 1400 mm height of roller top edge 3 for 1400 to 2000 mm height of roller top edge

Dimensions





BF	Rated width	420, 620, 840 mm (others on request)
TW	Module width	BF + 80 mm
T.O.R.	Top of roller height	450 to 2000 mm
	Adjustment range	+/- 50 mm

ACCESSORIES SWITCHING POWER SUPPLY HP5424



24V

48V

400V

Application area

Voltage supply of MultiControl or ConveyorControl system via flat cable. Voltage supply of DriveControl or ZoneControl via round cable. Basic voltage supply of 24-V DC products.

Product description

The Interroll switching power supply HP5424 is a three-phase power supply for providing 24-V DC voltage. The robust housing achieves a protection rating of IP54. This allows placement in the immediate vicinity of the products to be supplied with 24 V DC, such as Interroll MultiControl. The central voltage supply saves costs for control cabinets and allows very short lines which, in turn, lead to cost savings and error reduction with respect to voltage drops on the line

The HP5424 is immediately operational, all required functions, such as circuit protection or maintenance switches, are already present. Given its high level of overload capability, the power supply is perfectly adjusted to the current requirements of the RollerDrive EC5000. This ensures the power supply of several RollerDrive starting at the same time.

Properties

- · No installation in switch cabinet required
- Compact design using heat dissipation element
- · Very high peak output (150 %)
- Adjustable circuit protection (jumper)
- · Overcurrent protection with resettable fuse
- · Status signal
- · LED status display
- · 400 V AC can be looped through
- · 4 24-V DC outputs are available
- · Multiple terminal points, no special and expensive connectors required
- · Brake chopper for limiting feedback voltage resulting in feedback capability
- · Lockable maintenance switch against reactivation
- Screw for connecting/disconnecting ground potential of primary side with ground of secondary side
- Maintenance-free
- · No power reduction (derating) over the entire operating temperature range



ACCESSORIES SWITCHING POWER SUPPLY HP5424

Technical data

Electrical data	
Rated supply voltage	400 V AC, 3 phases
Supply system voltage range	380 to 480 V AC \pm 10 %
Supply system frequency	50 to 60 Hz ± 6 %
Supply system power consumption	Typically 1.6 A per phase at 3 x 400 V AC
Rated output voltage	24 V DC
Rated output power	960 W
Rated peak power	Max. 1440 W at 24 V DC for 4 s, repetition rate depends on duration and actual peak load
Maximum output current	60 A at 24 V DC for 4 s
Current limitation for each output	10, 16, 25 A
Efficiency	Min. 92 %
Feedback resistance	≤ 35 V DC
Brake chopper	30 W (briefly 200 W)
Ambient conditions	
Protection rate	IP54
Ambient temperature in operation	−30 to +40 °C
Ambient temperature during transport and storage	-40 to +80 °C
Max. installation height above sea level	1000 m*
Miscellaneous data	
Weight	4 kg
Color	RAL9005 (black)

^{*} The installation in systems at an altitude above 1,000 m is possible. However, this can lead to a reduction of the performance values.

ACCESSORIES SWITCHING POWER SUPPLY HP5424

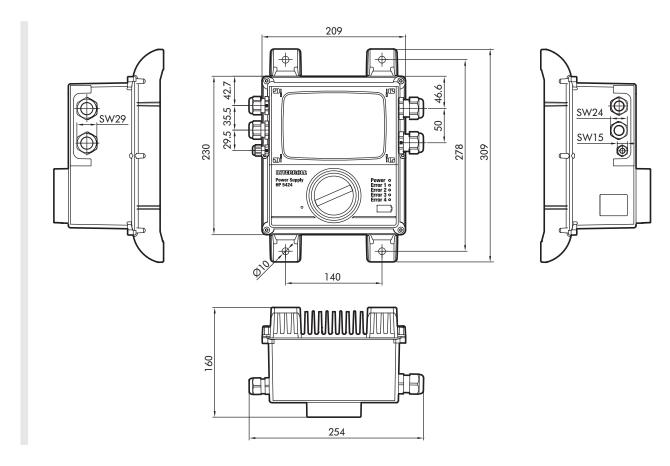


24V

Dimensions

48V

400V



Accessories

Set of rubber seals for all cable screw connections

- $\cdot~$ 24-V DC output for one flat cable, article number: S-1115406
- · 24-V DC output for two flat cables, article number: S-1115407
- \cdot 24-V DC output for a round cable (ø 5 up to 13 mm), article number: S-1115405

Scope of delivery

· Fit all cable screw connections (in the screwed-on condition) with dummy plugs. Jumper for current limitation of all cables.

ACCESSORIES SWITCHING POWER SUPPLY HP5424

ACCESSORIES SWITCHING POWER SUPPLY HP5448



24V

48V

400V

Application area

Voltage supply of MultiControl via flat cable. Voltage supply of DriveControl via round cable. Basic voltage supply of 48-V DC products.

Product description

The Interroll switching power supply HP5448 is a three-phase power supply for providing 48-V DC voltage. The robust housing achieves a protection rating of IP54. This allows placement in the immediate vicinity of the products to be supplied with 48 V DC, such as Interroll MultiControl. The central voltage supply saves costs for control cabinets and allows very short lines which, in turn, lead to cost savings and error reduction with respect to voltage drops on the line

The HP5448 is immediately operational, all required functions, such as circuit protection or maintenance switches, are already present. Given its high level of overload capability, the power supply is perfectly adjusted to the current requirements of the RollerDrive EC5000. This ensures the power supply of several RollerDrive starting at the same time.

Properties

- · No installation in switch cabinet required
- Compact design using heat dissipation element
- · Very high peak output (150 %)
- Adjustable circuit protection (jumper)
- · Overcurrent protection with resettable fuse
- Status signal
- · LED status display
- · 400 V AC can be looped through
- · 2 48-V DC outputs are available
- · Multiple terminal points, no special and expensive connectors required
- · Brake chopper for limiting feedback voltage resulting in feedback capability
- · Lockable maintenance switch against reactivation
- Screw for connecting/disconnecting ground potential of primary side with ground of secondary side
- Maintenance-free
- · No power reduction (derating) over the entire operating temperature range



ACCESSORIES SWITCHING POWER SUPPLY HP5448

Technical data

Electrical data	
Rated supply voltage	400 V AC, 3 phases
Supply system voltage range	380 to 480 V AC \pm 10 %
Supply system frequency	50 to 60 Hz ± 6 %
Supply system power consumption	Typically 1.6 A per phase at 3 x 400 V AC
Rated output voltage	48 V DC
Rated output power	960 W
Rated peak power	Max. 1440 W at 48 V DC for 4 s, repetition rate depends on duration and actual peak load
Maximum output current	30 A at 48 V DC for 4 s
Current limitation for each output	10, 16, 20 A
Efficiency	Min. 92 %
Feedback resistance	≤ 60 V DC
Brake chopper	30 W (briefly 200 W)
Ambient conditions	
Protection rate	IP54
Ambient temperature in operation	−30 to +40 °C
Ambient temperature during transport and storage	-40 to +80 °C
Max. installation height above sea level	1000 m*
Miscellaneous data	
Weight	4 kg
Color	RAL9005 (black)

^{*} The installation in systems at an altitude above 1,000 m is possible. However, this can lead to a reduction of the performance values.

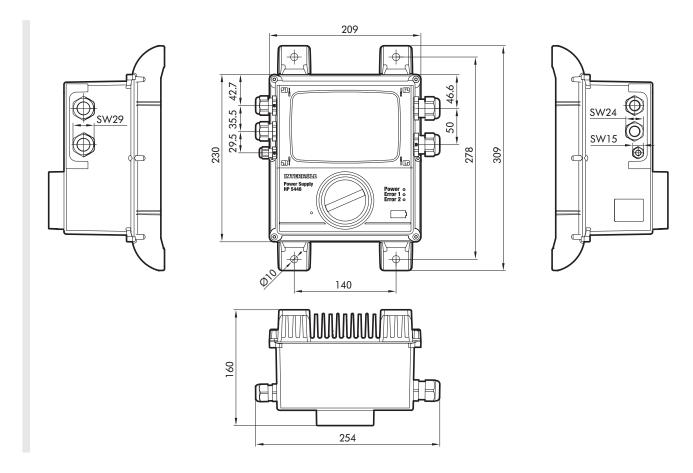
ACCESSORIES SWITCHING POWER SUPPLY HP5448



Dimensions

48V

400V



Accessories

- · Set of rubber seals for all cable screw connections
 - 48-V DC output for one flat cable, article number: S-1115406
 - 48-V DC output for two flat cables, article number: S-1115407
 - 48-V DC output for a round cable (ø 5 up to 13 mm), article number: S-1115405

Sensor kit



Sensors detect materials on the conveyors and determine their position. Reflex light barriers are used, which require a reflecting mirror (reflector) on the opposite side of the light barrier in order to return the light beam.

The sensor kit consists of the sensor and the matching plastic housing, including fastening clip. The housing can be attached directly to the roller conveyor or to a universal support.

Designation	Dimensions	Reference number
Sensor kit, 3 m cable	43 x 26 x 18 mm (L x W x H) (H 26 mm with studs)	63104071
Sensor kit, 1 m cable	1.7 x 1 x 0.7" (L x W x H) (H 1" with studs)	63104072

Reflector kit



The reflector kit returns the light beam back to the sensor. The kit includes a fastening clip and can be attached directly to the roller conveyor or to an universal support.

Designation	Dimensions	Reference number
Reflector kit	54 x 18 x 30 mm (L x W x H) (H 39 mm with studs)	64000905

Universal support, fixed



Side guides, sensors, reflectors and other add-on components, such as scanners, are attached to the fixed universal support.

Fixed universal supports are attached directly to the side profile.

Designation	Dimensions	Reference number
Universal support, fixed	60 mm (55 mm above T.O.R.)	1015014

Universal support, flexible



Side guides, sensors, reflectors and other add-on components, such as scanners, are attached to the flexible universal support. Flexible universal supports are attached laterally to the profile. Each of these holders can accommodate two flexible universal support brackets.

Designation	Dimensions	Reference number
Universal	200 mm (55 mm above T.O.R.)	63010032
support,		
flexible		



24V

48V

400V

Side guide



Side guides are used for reliably guiding the product on roller conveyors and belt conveyors, as well as on the corresponding components. We offer the side guides in an aluminum and a polymer version. In particular, because of the flexible material, the guides can be adjusted to the material flow in curves, as well as when merging and diverting.

Designation	Dimensions	Reference number
Aluminum side guide	40 x 15 x 2,000 mm	63133351
Polymer side guide	40 x 15 x 2000 mm	63010049

Side guide holder



The side guide profile is attached to the universal support with the side guide holder.

Designation	Dimensions	Reference number
Side guide holder	46 x 28 x 22 mm	63010248

Side guide connector



Side guides are connected to each other at the transition of two modules with the side guide connector.

Designation	Dimensions	Reference number
Side guide connector	70 x 28 mm	63010050

End cap for side guide profile



An end cap is attached to the end of a side guide. The contour prevents products from being caught.

Designation	Dimensions	Reference number
End cap for side guide profile	100 x 40 x 40 mm	63010039

End cap for side profile



The end cap closes a side profile at the front.

Designation	Dimensions	Reference number
End cap for side profile	115 x 35 x 3 mm	64000900

Actuator



By using 24 V actuators, a 400/460 V roller conveyor can be operated as a zone conveyor. The actuators can be controlled for zero pressure accumulation mode via the Interroll controllers. Additional components are required to change a transport conveyor into a zone conveyor. Please contact your Interroll customer representative.

Designation	Dimensions	Reference number
24 V actuator	177 x 100 x 65 mm	63010261

Magnetic Speed Controller MSC 50



The magnetic speed controller MSC 50 is a purely mechanical speed controller that ensures a controlled, slow speed on gravity conveyors with materials weighing from 0.5 kg (1 lbs) to a maximum of 35 kg (77 lbs). The magnetic speed controller operates without a gear box, thus enabling startup for very lightweight containers. Heavy containers are transported at a controlled speed thanks to the consistently high braking performance.

Designation	Dimensions
Magnetic Speed	Min./max. between frames (BF): 210 – 1,400 mm
Controller MSC 50	Tube diameter: Steel 51 mm, steel with PU sleeve 54 mm

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?

Transport material

The platform is suitable for transporting unit loads. These are characterized by the following general specifications:

Suitable bottom for transport on roller conveyors:
 The bottom must be suitable for transport on roller conveyors.
 In particular, this means that it is smooth, perfectly closed or at least homogeneously ribbed, or in similar conditions.
 Indentations (e.g. with surrounding edges at the bottom, ribs, stacking aids) complicate the transport, particularly on transfers, HPD, ball transfer units, and must be tested for transportability. Bent bottoms, especially hollow or pot-bellied bottoms (concave/convex), have negative effects on the transport.

- · The stability of the bottom must be sufficient for the loading.
- The material must be uniformly and continuously closed above the rollers on at least one long side up to a height of 5 cm. This helps optical sensors to detect the product. When transferring at 90°, detection must be possible on two sides (length and width).
- The weight of the materials must not exceed 50 kg/m or 50 kg per accumulation zone.
- The smallest product for transporting:
 On straights: 180 mm long. If the product change

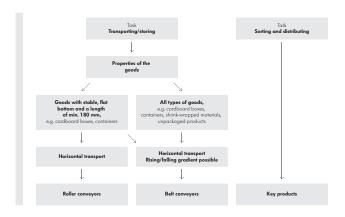
On straights: 180 mm long. If the product changes its orientation (e.g., with 90° diverting), then length and width are at least 180 mm

In curves: The roller pitch is greater at the outside radius then at the inside radius. We will be happy to test your product on a curve.

- The largest product for transporting:
 On straights: 800 mm width
 - In curves: The formula applies to page 110
- Typical products:
- Plastic containers with the usual dimensions for internal goods and warehouse transport, such as cardboard boxes, e.g., in the sizes 200 x 300 mm, 300 x 400 mm, 400 x 600 mm, 600 x 800 mm
- Cardboard boxes with stable bottoms suitable for roller conveyors
- Other trays with corresponding properties
- The ratio of base area to height, particularly the position of the center of gravity, affects the secure standing of the product, especially on inclines. The center of gravity should be no higher than 1/3rd of the length of a product.

Product selection

The task that the conveyor technology is to meet in your case, leads directly to the three main sections of this catalog via the following chart: roller conveyors, belt conveyors and key products.



APPLICATION NOTES ROLLER CONVEYORS

Roller conveyors

Weight classes

In general, Interroll groups conveyors by the weight of the transport material into the following classes:

Up to 35 kg: LightUp to 500 kg: MediumUp to 1,500 kg: Heavy

This catalog includes materials up to 50 kg, i.e., up to part of the medium weight class.

Transport material	Cardboard cartons, plastic containers, trays, etc.
Load capacity	Up to 50 kg/m
Conveyor speed	0.1 to 2.0 m/s
Between frames (BF)	420, 620, 840 mm (special sizes on request)
Roller pitch (P)	60, 90, 120, 150 mm
Rollers	Interroll Series 1700, Interroll Series 3500 and Interroll Series 1100 in PVC or steel, zinc- plated (special types on request)
Ambient temperature	-30 to 0 °C or 0 to $+5$ °C or $+5$ to $+40$ °C (depending on the product)

Drive classes

In general, Interroll groups conveyor modules by drive technology into the following classes:

- · Non-powered roller conveyors
- · Powered roller conveyors at 24/48 V
- · Powered roller conveyors at 400/460 V

Non-powered gravity conveyors are used as low-cost, simple solutions for many conveying areas. The transport good is moved by gravity (angle of conveyor) or manually. Optional speed controllers brake the conveying speed of the transport good on inclined roller conveyors.

Powered conveyors are used for continuous transport, or for zero pressure accumulation of transport goods whose throughput can be precisely calculated. Merging and diverting of transport goods is implemented by using our powered key products.

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.

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 five conveyor rollers are underneath the conveying good at any given time:

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

Р	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 five conveyor rollers must support the conveying good.

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

Lane width and measure between frames

The parameter (BF) is a measure between the side frames. The lane width (LW) is the measure between the side guides. With fixed side guides, LW = BF.

With flexible side guides, the LW measurement can be larger or smaller than BF in order to flexibly guide products, e.g. in curves. On each side, the use of flexible side guides can change the LW measure by -90/+120 mm (-3.54"/+4.72").

The lane width of the conveyor for straight paths is at least the width of the transport material + 20 mm:

 $LW \ge B + 20 \text{ mm}$

LW	Lane width in mm (") between the side guides
В	Transport material width in mm (")

In the following cases, a larger lane width, possibly deviating from the measure between the frames, must be selected:

- · For conveyors into which transport material is being merged.
- For curves.

APPLICATION NOTES ROLLER CONVEYORS

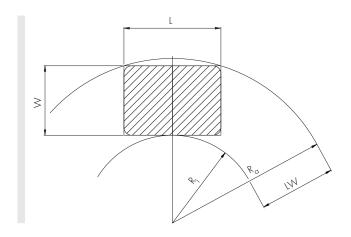
Lane width in curves

In general, the lane width (LW) must be greater in curves than for straight conveyor paths; for this purpose, the flexible side guide is adjusted accordingly without additional components.

The minimum required outside radius of the side guide (R_{\circ}) can be calculated as follows with a given inside radius:

$$R_{c} = \sqrt{(R_{i} + VV)^{2} + (L / 2)^{2}}$$

The inside radius for our curves is always 825 mm and is measured at the inside edge of the profile.



L	Maximum length of transport material in mm (")
W	Maximum width of transport material in mm (")
LW	Lane width in mm (")
R_{α}	Outside radius of curve for rectangular transport material in mm (")
R_{i}	Inside radius* of curve in mm (")

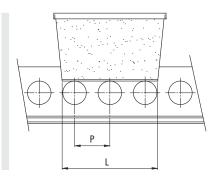
Curve modules from Interroll are available in 420, 620 and 840 mm (16.5", 24.4", 33" nom.) measure between frames (BF). A side guide is equipped with flexible mounting brackets and allows for expanding the lane width (LW) by 120 mm (+4.72") compared to the measure between frames of the rollers.

Trouble-free transport

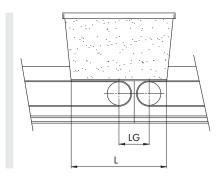
The roller pitch and the dimensions of the transition gap between two conveyors are very important for trouble-free transport.

Transport disturbances can be prevented by taking the following

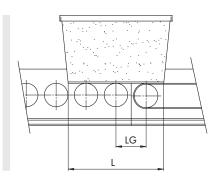
 Select roller pitch P so that at least three rollers are located below the transport material.



· Select the transition gap LG for all conveyors so that the gap measures less than one third of the transport material length.



 With a transition between belt and roller conveyors, the roller pitch P and transition gap LG should be selected so that the gap is less than one third of the transport material length, and so that at least two conveyor rollers are below the transport material when material exits a conveyor.



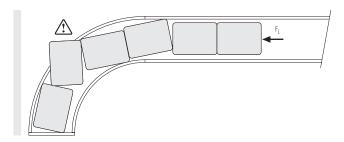
LG	Transition gap in mm (")
L	Length of transport material in mm (")
Р	Roller pitch in mm (")

APPLICATION NOTES GENERAL TECHNICAL INFORMATION

Ejection of transport material in curves

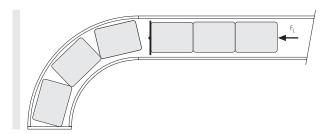
Interroll recommends not accumulating any transport materials in curves – except for zero pressure accumulation conveyor systems .

Since accumulation pressure generates externally acting forces in the curve, transport materials in the curve area could be pushed beyond the conveyor edge. This may damage transport materials and cause personal injury.



The accumulation pressure in a curve may be prevented by taking the following measure:

· An additional stop directly in front of the curve



Calculations

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
٧	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.

General technical information

General product information

Side profile

Interroll solves conveying tasks with only one side profile. Exceptions are belt curve and belt merge.

Steel profile 115 x 35 x 2.5 mm

- · Standard profile for all straight roller and belt conveyors
- Standard profile for all roller conveyor curves and Belt Curve Light
- · Roller-formed steel profile with powder coating
- The upper roller edge or the upper edge of the conveyor belt is always 5 mm higher than the upper profile edge
- · Cover made of black PVC
- The space behind the cover can be used as electrical conduit and for housing controller components
- The profile has a continuous hole pattern in a grid of 30 mm for attaching all the required add-on components

Crossbar and electrical conduit

Side profiles are connected with crossbars made of aluminum profile with plastic cover at regular intervals. They also serve as electrical conduit between the two side profiles.

Side guide

Side guides can be attached to the side profile. They guide the product on the track and prevent products from falling off. Please take the variants of the side guide into account when ordering conveyors.

The Interroll side guides are offered in two variants:

Fixed side guide
 The side guide profile is attached to the top side of the side profile with the help of universal supports. The guide area of the profile is aligned with the inside of the side profile.

APPLICATION NOTES GENERAL TECHNICAL INFORMATION

Flexible side guide

The side guide profile is attached to the side of the side profile with the help of flexible universal supports. The guide area of the profile can be positioned +120/-90 mm (-3.54''/+4.72'') offset parallel to the side guide with the help of a Z-shaped holder.

This must be taken into account especially in curves for implementing the increased space requirement with the constant measure between frames of the conveying profiles. Products that are smaller as well as larger than the actual conveyor width can be guided with precision.

With the help of the flevible side guide, materials can also be

With the help of the flexible side guide, materials can also be guided or aligned at an angle to the direction of transport.

Two side guide profiles can be fastened above each other on one mounting bracket. This creates a continuous closed side guide with a height of 80 mm from the upper roller edge.

Each conveyor includes two connectors for connection to the side guide of the next module.

Profile connectors

The side profiles of the modules are connected form-fit with a profile connector.

Each conveyor module includes 2 profile connectors.

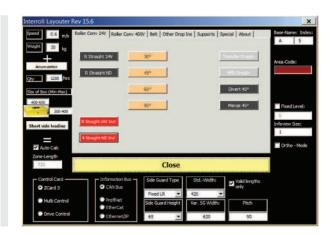
Sensors/Reflector

Sensors and reflectors can be installed in two ways:

- · Firmly installed directly on the side profile
- Flexibly installed on a flexible universal support with additional assembly plate

In both variants, the studs of the sensor holder are fed through two adjacent holes and secured on the opposite side with the fastening clip. The clip engages noticeably through lateral movement and secures the sensor holder in place. The reflector holder is installed in the same way. Our standard design of the sensor is Sick GL6.

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 or later.
- · Microsoft Office 2010 or later.

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.

APPLICATION NOTES 24/48-V ROLLER CONVEYOR

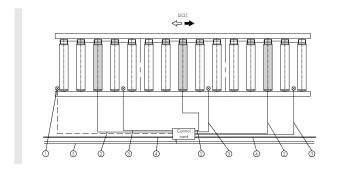
24/48-V roller conveyor

Zones

Each conveyor line is divided into zones that are matched to the maximum length of the transport good.

Each zone has:

- · A RollerDrive (24/48-V motor installed in the pipe)
- · Idlers driven via belts
- An internal control card that controls a maximum of four zones at the same time
- · A sensor/reflector



D.O.T.	Conveyor direction
1	Start photo cell (optional)
2	RollerDrive connection
3	Photo cell connection
4	Communication cable (Ethernet)
5	24/48-V power bus

One to four zones form a pre-installed conveyor module with complete cabling which can be connected with other modules.

Drive

Interroll uses RollerDrive EC5000 as a drive in the 24/48-V conveyors.

RollerDrive EC5000:

- · Internal commutation electronics (brushless motor)
- · 9 gear stages
- · Constant constant conveyor speed, dynamically controllable
- · Energy recovery in braking
- · Electronic holding brake
- · Motor cable with 5-pole snap-in plug

Technical data:

General technical data	Mechanical power	32 W
	Noise level	55 dB (A)
Electrical data	Rated voltage	24 V DC
	Voltage range	18 to 28 V DC
	Idle current	0.4 A
	Rated current	2.0 A
	Max. start-up current	5.0 A
	Permissible voltage ripple	< 5 % recommended: < 1 %
	Protection rate	IP54
Dimensions	Tube diameter	50 mm
	Wall thickness	1.5 mm
	Max. reference length	1,500 mm
Ambient conditions	Ambient temperature in operation	0 to +40 °C
	Ambient temperature during transport and storage	−30 to +75 °C
	Max. humidity	90 %, non-condensing

Gear stages:

Gear ratio	Max. speed [m/s]	Nominal torque [Nm]	Rated braking torque [Nm]	Rated braking torque [Nm]
9:1	1.75	0.45	1.10	0.36
12:1	1.31	0.61	1.46	0.48
16:1	0.98	0.81	1.95	0.64
20:1	0.79	1.01	2.44	0.80
24:1	0.65	1.21	2.92	0.96
36:1	0.44	1.82	4.38	1.44
48:1	0.33	2.42	5.85	1.92
64:1	0.25	3.23	7.80	2.56
96:1	0.16	4.84	11.69	3.84

For further information, please use our Catalog for RollerDrive, Control System, and Power Supply.

APPLICATION NOTES 400-V ROLLER CONVEYOR

Start photo cell

At the beginning of a line is an optional photo cell (accessories, page 105) that starts the system.

MultiControl

Each control communicates with its adjacent controls via a data cable. This cable transmits signals to the start, for accumulation, for error detection, for service life or for the execution of specific control processes along the conveyor system.

A MultiControl has four additional connectors for incoming signals, e.g., for starting merging and diverting processes.

An Ethernet bus connector is available for the connection to a master control; the entire system can be controlled via this connector and status information can be read. The Ethernet/IP, PROFINET and Ethercat protocols are available.

The drive side and the electrical side with the control can be selected for the straight 24/48-V conveyor and must be specified when ordering. The control is typically located in the profile for curves at the outside radius.

400-V roller conveyor

Roller merge dimensions

The angle and lane width of a merge or diverter module define the dimensions of the module.

The following table shows the standard dimensions of the merge/diverter modules (merges).

For angle $\alpha = 45^{\circ}$ and roller pitch P = 60 mm

Between frames [BF]	Module length [ML]		Opening width [FW]
	24/48 V	400 V	
420 mm	510 mm	630 mm	600 mm
620 mm	690 mm	810 mm	870 mm
840 mm	930 mm	1050 mm	1200 mm

For angle $\alpha = 30^{\circ}$ and roller pitch P = 60 mm

Between frames [BF]	Module length [ML]		Opening width [FW]
	24/48 V	400 V	
420 mm	810 mm	930 mm	845 mm
620 mm	1140 mm	1260 mm	1230 mm
840 mm	1540 mm	1660 mm	1680 mm

Operating modes

Driven roller conveyors with flat belt drive and 400/460 V motor can be used in 2 operating modes:

- · Transport conveyor
- · Zero pressure accumulation conveyor with zone control

Drive

The rollers are driven by a flat belt tangentially guided at the bottom. Pressure elements secure the contact between belt and roller.

Modules

The conveyors consist of 3 different modules:

- Drive module with 400/460 V drive, once at the beginning of the conveyor, incl. belt deflection
- · Intermediate module, multiple possible
- End module, once at the end of the conveyor, incl. belt deflection

Length

The length of a flat belt-driven conveyor is limited to 15,000 mm. The dimensioning of the motor output is handled by Interroll according to the speed and weight requirements.

Functions

The selection and arrangement of the pressure elements determine the function of the conveyor. Depending on the application, the functions can be combined within a power train.

- · Transport conveyor:
 - Fixed pressure element in upper fastening position, after every 2nd roller
- Zero pressure accumulation conveyor:
 Actuator pressure element, 1 x per zone, the rollers of the zone are driven via PolyVee. A control module with 24 V is also required for controlling the zones.

APPLICATION NOTES BELT CONVEYOR

400 V roller curves

Flat belt-driven curves always have a fixed drive. Accumulation on a curve is not possible.

Curves are available at 30°, 45°, 60° and 90° angles. A drive station in curves is not possible. If a conveyor path starts with a flat belt-driven curve, a drive station must be planned in a short straight before the curve.

Per drive, a maximum of two 90° curves in the same direction of rotation or one 90° curve with attached straight is possible.

Drive and deflection stations

For modules with flat belt drive, the drive side (left or right in direction of transport) as well as the position of the deflection units must be specified. The following representations clarify the possible drive sides and positions of the terminals.

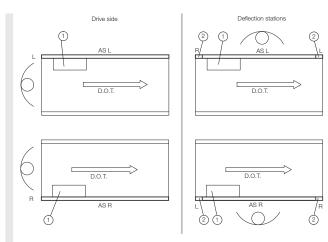


Fig.: Drive side right (R) and left (L) and terminals

D.O.T.	Conveyor direction
1	Motor
2	Deflection unit
AS R	Drive side right
AS L	Drive side left

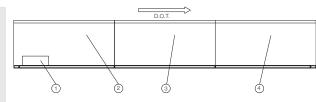


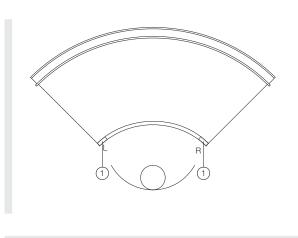
Fig.: Example of a conveyor line with three modules

D.O.T.	Conveyor direction
1	Motor
2	Drive module, terminal left: DL; drive side right: R
3	Intermediate slave module: SI; drive side right: R
4	Slave module, terminal right: SR; drive side right: R

Curves with flat belt drive

In principle, the drive side of the curve is at the inside radius. The position of the terminals must be specified when ordering; they are always determined viewed from the curve center.

A maximum of two curves in the same direction of rotation are possible per drive. The max. length of the straight portion of the conveyor is reduced by 3000 mm for each curve.



1 Deflection unit

Belt conveyor

Belt conveyors are primarily used for transport tasks that cannot be handled with roller conveyors or only under difficult conditions.

Interroll belt conveyors are suitable for the following applications:

- · Incline and decline conveyors
- · Acceleration conveyors
- · Conveyors for materials with uneven bottom
- · Conveyors for compact or irregularly-shaped transport material
- · Conveyors for high conveyor speeds

Interroll belt conveyors are not suitable for outdoor operation or for the transport of bulk material.

APPLICATION NOTES BELT CONVEYOR

General technical information

Drive

Standard Interroll belt conveyors are driven by a head drive or center drive with Interroll drum motors.

Advantages of Interroll drum motors:

- · Plug and play:
 - Interroll drum motors are much quicker and easier to install than conventional drive systems. Fewer components mean reduced costs for conveyor design and purchasing of parts.
- Hard-wearing:
 Interroll Drum A
 - Interroll Drum Motors keep operating at 100% even under aggressive environmental conditions, such as water, dust, grit, chemicals, grease, oil and even during high pressure washdown procedures.
- · Hygienic design:
 - Due to the smooth, stainless steel finish and the hermetically sealed and totally enclosed design, Interroll drum motors are much easier to clean and therefore reduce the risk of contamination in food processing.
- · Energy efficient:
 - Compared with many other drives commonly used in industry today, Interroll asynchronous drum motors use up to 32% less energy and when using synchronous drum motors up to 45% less energy, thus significantly reducing energy bills and the global carbon footprint.
- · Space saving:
 - Because the motor, gearbox and bearings are mounted within the drum shell, the drum motor takes up much less space.
- · Safe:
 - As a self-contained component without protruding parts and with fixed external shafts, an Interroll drum motor is probably the safest drive unit available for state-of-the-art material handling equipment.
- · Maintenance-free:
 - The totally enclosed motors ensure that the internal parts are unaffected by external conditions and maintain trouble-free operation for all kinds of applications.

Technical specifications of drum motors

	DM 0080	DM 0138	165i	217i
Technology	Synchronous	Asynchronous	Asynchronous	Asynchronous
Diameter	81.5 mm	138.0 mm	164.0 mm	217.5 mm
Gear material	Steel	Steel	Steel	Steel
Rated power	145 to 425 W	160 to 1000 W	0.306 to 2.200 kW	0.306 to 3.000 kW
Rated torque	2.1 to 65 Nm	15.7 to 238.3 Nm	28.1 to 365.2 Nm	28.1 to 533.6 Nm
Belt pull	1594 N	3454 N	347 to 4453 N	261 to 4907 N

For further information, please use our Drum Motor Catalog.

Conveyor belts

2-layer polyester belts with PVC or PU coating are used as conveyor belts. Incline, decline and acceleration conveyors are equipped with laterally grooved surface structures to avoid slippage of the transport material. Others on request.

Slider bed

Interroll belt conveyors are equipped with zinc-plated sheet steel as slider beds. Other slider beds are available on request.

Classification of Interroll belt conveyors

Interroll belt conveyors are classified according to the following features:

- · Use as a horizontal conveyor or incline/decline conveyor
- Conveyor length
- · Lane width
- · Conveyor speed
- · Max. load capacity/m
- · Max. overall load capacity/drive
- · Not suitable for reversing operation

Transport material	Boxes, packages, plastic containers, plastic parts, trays, etc.
Load capacity	Up to 50 kg/m
Max. total load capacity	550 kg
Conveyor speed	0.1 to 2.5 m/s
Lane width	420, 620, 840 mm, others on request
Conveyor length	700 to 30,000 mm
Incline/decline	Max. 18°
Ambient temperature	0 to +50 °C

APPLICATION NOTES BELT CONVEYOR

Horizontal belt conveyors

Horizontal Interroll belt conveyors can be supplied completely assembled up to a length of 4080 mm. Longer conveyors are always made up of several module segments. These segments must be assembled and adjusted on-site.

The required power capacity depends upon the conveyor length, the belt speed and the belt load of the conveyor. Calculation of the required power capacity is carried out by Interroll in accordance with your specifications. As a point of reference, you can calculate the power capacity with the simplified formula on page 118.

Head drive with drum or gear motor is possible for Interroll belt conveyor BM 8410 if the overall weight of the transport material is less than 220 kg and the conveying speed does not exceed 2.5 m/s (492 ft/m). If higher loads and/or speeds are required, a center drive is used.

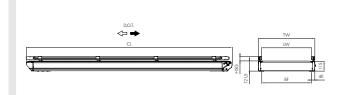


Fig.: Interroll Belt Conveyor BM 8410 (head drive)

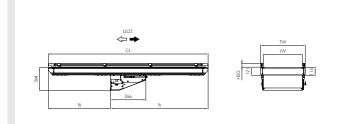


Fig.: Interroll Belt Conveyor BM 8411 (center drive)

CL	Conveyor length
D.O.T.	Direction of transport

Incline and decline conveyors

Interroll Belt Conveyors BM 843x with incline/decline are used if height differences have to be managed. The conveyors can be equipped above with a horizontal component with a fixed angled frame as well as below with an incline power feeder or decline power feeder.

The maximum angle of incline or decline depends on the material to be conveyed. For containers and cardboard boxes, the angle should be max. 15° to ensure a trouble-free transport.

The drive type is a center drive with drum motor or shaft-mounted gear motor. The motor typically has a brake with a brake voltage of 400/460 V.

The required power capacity depends upon the conveyor length, the construction form of the belt conveyor, the belt speed and the belt load of the conveyor. The calculation of the required power capacity (in kW/HP) is performed by Interroll according to your specifications.

Note about support stands:

For incline and decline conveyors please use the RM 8841 steel supports (page 96). With an infeed height or discharge height T.O.B. > 2000 mm, cross bracing is provided by Interroll for stability.

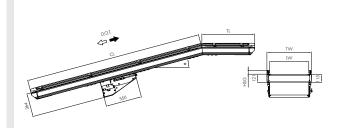


Fig.: Interroll Belt Conveyor BM 8432 center drive + top arch

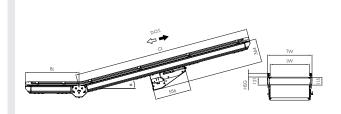


Fig.: Interroll Belt Conveyor BM 8433 center drive + incline

APPLICATION NOTES BELT CONVEYOR

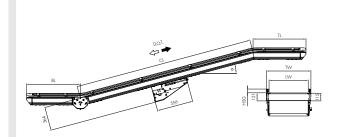


Fig.: Interroll Belt Conveyor BM 8434 center drive + top arch + incline

CL	Conveyor length
BL	Bottom length
TL	Top length
D.O.T.	Conveyor direction
T.O.B.	Onload/discharge height
α	Angle, max. 18°

Calculations

Throughput

The throughput $T_{\rm p}$ of a belt conveyor is given in units/hour and depends on the transport material dimensions and conveying speed.

The window size T is required for calculating the throughput. The window size T is the distance from the front edge of a transport material to the front edge of the following transport material, irrespective of the actual length of the transport material 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
٧	Conveying speed in m/s (ft/m)
T	Window size in m (ft)

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

Power capacity

The power capacity P of an Interroll belt conveyor (applies only to horizontal conveyors) is specified in kW. The power capacity depends on the overall weight m of the transport material in kg and the conveying speed v in m/s.

For the precise calculation of the power capacity P, please contact your Interroll customer representative. P can be calculated with the simplified formula:

$$P = v \cdot m \cdot 0,005$$

р	Power capacity in kW (HP)
٧	Conveying speed in m/s (ft/m)
m	Overall weight of transport material in kg (lbs)

For example, the power capacity P at a conveying speed of 0.5 m/s and an overall weight of 200 kg is calculated as follows:

$$P = 0.5 \frac{m}{s} \cdot 200 \text{ kg} \cdot 0.005 = 0.50 \text{ kW}$$

Since the actual power capacity should always be higher than the calculated value, the selection of a power capacity of at least 0.55 kW is recommended for the example.

Interroll reserves the right to select a drive that meets the factory standard.

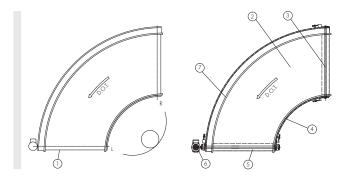
APPLICATION NOTES BELT CURVES AND MERGES

Belt curves and merges

Definition of the direction for an order

With belt curves, the direction is defined relative to the inside radius of the belt curve:

The left side is seen from counterclockwise direction and the right side from a clockwise direction (see the following diagram).



D.O.T.	Conveyor direction
R	Clockwise
L	Counterclockwise
1	Drive roller
2	Belt
3	Idler pulley
4	Inner side guide
5	Drive roller
6	Gear motor
7	Outer side guide

Average length of belt curve BM 8455

30°		45°	
LM	BF	LM	
987	620	760	
1192	840	885	
1348	1020	975	
1507	1220	1060	
	LM 987 1192 1348	LM BF 987 620 1192 840 1348 1020	

INDEX

Interroll from A to Z

Numeric		E	
24-V switching power supply	98	Electrical conduit	111
48-V switching power supply	102	End stop	84
		Ergonomics	8
A		EtherCat	88, 92
Actuator	38, 107	EtherNet/IP	88, 92
Application Notes	108		
Belt conveyor	115	H	
Roller conveyor 400 V	114	HP5424 (24-V power supply)	98
		HP5424 power supply (24 V)	98
В		HP5448 (48-V power supply)	102
I		HP5448 power supply (48 V)	102
Belt conveyors	50	HPD	72
Curve	50		
Straight	48, 52, 54, 56, 60, 64	1	
Belt Curve	68	1	
Blade stop	86	Interroll Group	4
C		L	
Control	88, 92, 114	Lane width	109
Conveying good	108	Lane width in curves	110
Crossbar	9, 111	Lift	78, 80
		Lift-Up Gate	76
D		Load capacity	109
Deep freeze area	9, 22, 26, 30, 74		
Drive and deflection stations	115	M	
		Magnetic Speed Controller	107
		MultiControl	88, 92
			,

© 09 | 2019 Interroll 120

INDEX

9, 105

Interroll from A to Z

P	
Plastic clip	9
Platform	6
Power capacity	118
Profile connectors	112
Profinet	88, 92

U

Universal support



Zones 113

R

Rated width	109
karea wiarn	109
Reflector kit	105, 112
Roller Conveyor	
Alignment conveyor	34, 46
Ball table	18, 20
Curve	16, 26, 42
Merge	30, 44
Straight	14, 22, 38
Roller pitch	109
RollerDrive controls	88, 92

S

Sensor holder	9, 105, 112
Side guide	9, 106, 111
Side profile	107, 111
Spiral Lift	82
Start photo cell	114
Strip merge	70
Support	96

Т

Throughput	111, 118
Transfer 24 V/48 V	74
Trouble-free transport	110

INDEX

Interroll from A to Z

COMPETENCE CENTER



The Interroll Center of Excellence in Sinsheim, Germany, near Heidelberg, concentrates on subsystems and modules implemented at key internal logistics points. These include roller conveyors and belt conveyors, belt curves and crossbelt sorters. In this product sector, the company is responsible within the global Interroll Group for all technical concerns ranging from development and application engineering to production and support for local Interroll companies and customers.

The 15,700 square-meter center is where the in-house design and manufacture of the entire product range takes place. This vertical integration allows us to control the quality of our products from A to Z and offer custom engineering support for our customers.

Conveyor modules, crossbelt sorters and other key products for material flow systems can be seen in the new customer center as demonstration systems. At our Interroll test center, customers can experience firsthand the testing of our custom-made configurations for new projects.

Interroll Automation GmbH

Dietmar-Hopp-Str. 3 74899 Sinsheim Germany +49 (0)7261 938-0

LEGAL NOTICES

Contents

We strive for the information presented to be correct, up to date and complete. We have carefully developed the contents of this document. Nevertheless, errors and changes are expressly subject to change.

Copyright/intellectual property right

Text, images, graphics and the like, as well as their arrangement, are protected by copyright and other protective legislation. Reproduction, modification, transfer or publication of any part or the entire content of this document in any form is prohibited. This document is intended exclusively for informational purposes and for intended use and does not authorize replication of the corresponding products. All identification symbols used in this document (protected trademarks, such as logos and commercial designations) are the property of Interroll AG or their respective owners and may not be used, copied or disseminated without prior written permission.

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.

interroll.com

INSPIRED BY EFFICIENCY