Product Overview

Interroll Belt Curve
The most reliable solution
The worldwide courier, express and parcel service industry (CEP) continues its road to success of recent years. The e-commerce business is the essential driver with double-digit growth rates. The number of passengers at airports increase steadily and a quick baggage handling is becoming more important. These challenges can be mastered only with the help of perfectly functioning processes and state-of-the-art technology in the background. Highest possible availability is the basic requirement for efficient and productive logistics systems.

Universal applications:

- From small packages (CEP) up to baggage transport at airports
With the Interroll Belt Curve, the positive drive requires only low belt tension, thereby ensuring excellent reliability and low overall operating costs. Interroll delivers high-end products with outstanding performance as well as consistently high quality. And the fact that they require significantly less maintenance than any other Belt Curve persuades all plant engineers and operating companies.

Lower operating costs, high reliability, low downtimes and more control over maintenance costs, spare parts and system output: These are the requirements that have to be met by such a system. With more than 60 years of experience, Interroll Belt Curves are highly persuasive here: Customers specifically value the reliability and robustness of the solution, which contributes daily to on-time delivery of parcels and shipments in more than 100,000 installations throughout the world.

Positive drive

In principle, belts are wear parts and have to be replaced from time to time. The open belt, combined with the positive drive, enables a belt change of the Interroll Belt Curve in only 30 minutes.

- Use at different temperatures

-55°C

-15°C

- High reliability
- Robust construction
- No belt slippage
- No belt tensioning
- Lowest maintenance needs
- Quick belt replacement
- Worldwide availability
Conventional, friction driven belt curves frequently present the problem of belt slippage and, as a result, overheating of the belt:

The belts run via idler pulleys, which can lead to a failure in case of a parcel jam on these curves. As a result, not only the belt, but also the expensive idler pulleys will have to be replaced. On top of that, friction-driven curves are subject to significantly higher wear of the belts due to the necessary high belt tension, and the idler pulleys have a lower service life.

### Technical specifications

<table>
<thead>
<tr>
<th>Dimensions*</th>
<th>30°</th>
<th>45°</th>
<th>60°</th>
<th>90°</th>
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</thead>
<tbody>
<tr>
<td>Angles</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Inner radius IR</td>
<td>1000 mm</td>
<td>800 mm</td>
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<tr>
<td>Lane width LW</td>
<td>1100 mm</td>
<td>900 mm</td>
<td>700 mm</td>
<td>500 mm</td>
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<tr>
<td>Center line CL</td>
<td>1550 mm</td>
<td>1250 mm</td>
<td>1150 mm</td>
<td>1050 mm</td>
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<table>
<thead>
<tr>
<th>General technical data</th>
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<tbody>
<tr>
<td>Max. load capacity</td>
<td>75 kg/m</td>
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<tr>
<td>Rated voltage</td>
<td>400 V</td>
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<tr>
<td>Electrical power</td>
<td>0.37 to 3.7 kW</td>
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<tr>
<td>Max. speed</td>
<td>2.85 m/s</td>
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<tr>
<td>Ambient temperature</td>
<td>-15 °C to +55 °C</td>
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<table>
<thead>
<tr>
<th>Material</th>
<th></th>
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<tbody>
<tr>
<td>Conveyor belt</td>
<td>Flexam EF 10/2 0+A22 Black AS FR with mechanical connector, others upon request</td>
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<tr>
<td>Slider bed</td>
<td>2.5 mm sheet steel</td>
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<tr>
<td>Color</td>
<td>All RAL colors possible</td>
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* other sizes upon request
Advantages of the positive drive

- Low belt tension for maximum service life
- No belt slippage, even under overload
- Suitable for continuous operation, high reliability
- Low total cost of ownership (TCO)
- Short downtimes
- Few, simple and quick maintenance tasks
- Operation under very high and low temperatures
The Interroll Portec Belt Curve meets the specifications of the world’s major airport consultants. Airports consultants specify Interroll Portec curves because they are reliable and can operate anywhere on the planet. They use a positive chain drive technology which prevents slippage, thus ensuring ultra-accurate tracking and a lower total cost of ownership.

Friction-driven curves always struggle with slippage: belts are looped over pulleys and if a baggage jam occurs on friction driven curves this will cause a catastrophic failure and in most cases will require the replacement of not only the belt but also the very costly pulleys. The belt tension of friction driven curves needs to be constantly adjusted as the belt stretches. If the adjustments are not precise the curve will function unreliably. This will lead to delays and even worse, downtime. Downtime equals loss of money!

Interroll delivers industry leading products with legendary durability, reliability and consistent quality. Airport operators prefer Interroll Portec curves because they are durable and reliable. Airport operators specify and prefer Interroll Portec curves because they require significantly less maintenance than any other curve. Interroll’s Portec curves have been stress tested for protracted periods of time at speeds of 4.1 m/s (800 fpm). No abnormal wear on moving parts was found upon examination.

When it comes to maintenance, there are very few moving parts, and fewer parts that can actually fail. Performing maintenance or service work on an Interroll Portec Belt Curve is unbelievably simple. Most maintenance personnel do not know how long it takes to replace a Portec belt because they have had to do it so infrequently or not at all. Interroll Portec belts can sometimes be damaged by FOD (Foreign Object Debris) though. If this happens the Interroll Portec belt can be easily replaced in as little as 30 minutes. Replacing a belt on a friction-driven curve can take hours! Also, friction increases wear on belts tremendously, therefore belts on a friction-driven curve must be replaced frequently.

The Interroll Portec Curve is the only curve that can operate in any global climate condition – and this includes shipping. Interroll can safely deliver curves to any point on earth without climate controlled shipping containers or concern that the curve will fail due to extremely high or low ambient operating temperatures once installed.

About Interroll

Established in 1959, Interroll has grown to become the world’s leading supplier of key products for internal logistics. Whether boxes, pallets or soft goods are to be handled, no other supplier has such a complete product range on offer.

That is why system integrators, OEMs and operators select Interroll as their partner for their logistics business. Worldwide.

The Interroll global network ensures quick delivery and superior service for every local customer. We inspire our customers and provide opportunities for them to increase efficiency.

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