

Industry fact sheet  
October 2017



The Interroll Belt Curve  
**The Most Reliable Solution  
for Handling Baggage**



## The world is moving

According to the IATA\*, passenger numbers increased in 2016 by 5.9 % to 3.7 billion. This is almost a doubling compared to 2003 with 1.89 billion passengers.

According to an Oxford Economics\*\* report, global travel spending will increase 5.4 percent a year for the next decade and the Global Commercial Airports Baggage Handling Systems market will grow at a CAGR of 7.43 percent over the period 2012-2016.

Despite rapid technological advancements in the equipment that handles all this traffic, the rising cost of airport operations will pose a challenge to the growth of this market.

Airports face multiple challenges, especially when it comes to the complex baggage handling flow, all while battling rising costs, increasingly dissatisfied customers and safety rules and regulations.

The vast majority of the busiest airports in the world benefit from Interroll's products and solutions to stay on top of their game.



**If you travel through one of the 10 busiest airports in the world, your luggage and carry-on will come into direct contact with Interroll products**

\* International Air Transport Association.  
\*\* A global forecasting and quantitative analysis firm.

# What challenges do airport professionals face when it comes to baggage handling?

## **1** Optimize cost of bags processing and decrease % of delayed or lost bags through an increase in speed and accuracy.

Baggage handling technology has become more and more sophisticated over the last ten years. Short connection times mean that bags must be handled quickly and efficiently.

According to SITA\*'s baggage report, 21 million suitcases go missing each year and in 2016 alone, the annual bag mishandling costs was a staggering US\$ 2.1 billion.

Speed and accuracy of your baggage handling system along with low operational costs are key factors in determining the overall cost of bags processing.

## **2** Low maintenance, fast replacement.

Uptime is the key to efficient and productive logistics operations. The world's busiest airports never sleep, they cannot afford to have a baggage handling system that lets them down.

Low operational cost, high reliability, reduced downtime and improved control over maintenance costs, spare parts and system performance: this is essentially what a baggage handling system needs to deliver.



## **3** Financial stability, global availability, knowledge and support.

Airport professionals need to know they are working with a stable, solid partner they can rely on. Someone that can support projects anywhere in the world and can stand behind their solutions with technical knowledge and engineering expertise.

\* Société Internationale de Télécommunications Aéronautiques - an air transport IT and communications specialist.



# GLOBAL TRAVEL

## Facts & Figures

PASSENGER NUMBERS  
INCREASED IN 2016

by **5.9%**  
to **3.7 Mrd.**

Bag mishandling  
COSTS  
WAS STAGGERING  
US\$ **2.1** billion  
IN 2016

Travel Industry  
**10%** OF THE GLOBAL  
ECONOMY

**21 million**  
SUITCASES  
GO MISSING EACH YEAR

FORECAST FOR 2017  
**4 billion** PASSENGERS

in the **10**  
BUSIEST AIRPORTS IN THE WORLD,  
YOUR LUGGAGE WILL COME  
INTO DIRECT CONTACT WITH  
**INTERROLL PRODUCTS**

**BAGGAGE HANDLING SYSTEMS MARKET**  
WILL GROW AT A CAGR OF  
OVER THE PERIOD  
**7.43 %** 2012-2016

GLOBAL  
**TRAVEL SPENDING**  
WILL INCREASE  
**5.4% a year**  
FOR THE NEXT DECADE

## The world's busiest airports

2016 Rank	Airport	Total Passengers	% vs PY
1.	USA States Hartsfield-Jackson Atlanta International Airport	104,171,935	+2.6%
2.	CHN Beijing Capital International Airport	94,393,454	+5.0%
3.	UAE Dubai International Airport	83,654,250	+7.2%
4.	USA Los Angeles International Airport	80,921,527	+8.0%
5.	J Tokyo International Airport	79,699,762	+5.8%
6.	USA O'Hare International Airport	78,327,479	+1.8%
7.	UK Heathrow Airport	75,715,474	+1.0%
8.	HKG Hong Kong International Airport	70,314,462	+3.0%
9.	CHN Shanghai Pudong International Airport	66,002,414	+9.9%
10.	F Charles de Gaulle Airport	65,933,145	+0.3%



# INTERROLL BELT CURVE

➔ Advantages of the positive drive



# The Interroll Belt Curve



**1** The **Interroll Belt Curve** meets the specifications of the world's major airport consultants. Airport consultants specify Interroll 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!**

**2** Interroll delivers industry leading products with legendary durability, reliability and consistent quality. Airport operators prefer Interroll curves because they are durable and reliable. Airport operators specify and prefer Interroll curves because they require significantly less maintenance than any other curve. Interroll's 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 Belt Curve is unbelievably simple. Most maintenance personnel do not know how long it takes to replace a belt because they have had to do it so infrequently or not at all. Interroll belts can sometimes be damaged by FOD (Foreign Object Debris) though. If this happens the Interroll 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 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.

**3** **Interroll** is the world's leading supplier of solutions for internal logistics. We offer a truly global product platform with highest availability for airport applications. Our global presence allows us to be close to you, wherever you need us, to assist you with our top-notch engineering support and availability of spare parts. No other competitor can offer such an advantage.

**Stuart McGregor,**  
P.E., Senior Acoustical Engineer at Engineering  
Dynamics, Inc., talking about the Interroll Curve:

“ I was surprised and encouraged to find that a piece of industrial equipment that can move material at high speeds can be so quiet. It was encouraging to work with a manufacturer of industrial equipment that is proactive and is paying attention in the design of their equipment to minimize sound emissions. ”





## 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.

[interroll.com](http://interroll.com)

Interroll reserves the right to modify the technical characteristics of all its products at any time. Technical information, dimensions, data and characteristics are indicative only.

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