Airports

siegling







Throughout the world, Forbo Siegling conveyor and processing belts are usually involved wherever air cargo and baggage are being handled.







siegling transilon

conveyor and processing belts

Baggage Handling at international Airports

When it comes to equipping international airports with conveyor and processing belts, there are good reasons why Forbo Siegling is the market leader. With over 50 service centres worldwide and the experience gathered in numerous major projects, we are the partner for OEMs and airport authorities when it comes to planning, construction and after-sales service.

Our product range is tailored to meet the needs of modern airports and undergoes constant improvement in cooperation with OEMs and users. As the volume of baggage and cargo continues to increase, so do the demands for speed and reliability. With our experience, the results of ongoing research and development and our high quality standards, our products are always "one step ahead". And that's why handling systems throughout the world use Siegling Transilon conveyor and processing belts to convey baggage and cargo.

Safely, reliably and efficiently.

For further relevant Forbo Siegling products please see the following brochures:

No. Title

- 214 Siegling Transtex Conveyor belts
- 238 Amp Miser[™] 2.0 · The new generation
- of energy saving conveyor belts 224 Siegling Transilon
- Conveyor and processing belts 317 Siegling Transilon
- Technical Information 1 Storage · Finishing · Fitting
- 318 Siegling Transilon Technical Information 2 Special features and properties
- 800 Siegling Prolink Modular belts

The properties

The advantages

extensive range of types	product range perfectly suited for all conveying, transferring and processing functions
energy saving types	lower costs, fewer CO ₂ emissions
top product quality	long belt life
dimensionally stable	can be used even where temperatures and humidity fluctuate
light and thin	belts are easy to fit, low energy consumption
low noise	environmentally friendly thanks to low noise emissions





From the check-in ...



The demands placed upon conveyor and processing belts in modern airports are as varied as the stations through which the baggage and cargo pass.

And that's why our Siegling Transilon product range for airports includes numerous belt types which are well suited for the various applications.

They enable efficient and rapid handling and make existing conveyors even more effective:

- in the check-in area
- for safety screening (CBS)
- for collecting, accumulating and distributing
- on curved conveyors
- for inclined conveying
- for aircraft loading



Check-in

Special surface patterns mean good grip in the check-in section. The photo shows the check-in pattern, developed by Forbo Siegling, which even conveys awkward baggage on wheels.



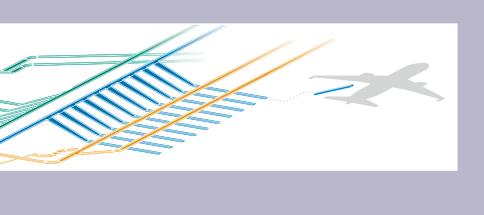
X-ray systems

X-ray systems place high demands on the conveyor belt. Special conveyor belts from Forbo Siegling are used successfully on carry-on X-ray machines as well as in CBS systems.



Collecting belts

Good flatness and the surface of the belt types used ensure problem-free lateral discharge of the pieces, even on wide belts.





Aircraft loading

When used outside, conveyor belts are subjected to extreme fluctuations in moisture and temperature. For this type of conveying, robust belt types from the Siegling Transilon and Transtex product ranges are available.

... to loading



Merging

For applications on belt junctions, very narrow dimensional tolerances must be maintained due to short take-up ranges. Reliable transfer of baggage and cargo requires small drum diameters.



Curved conveying

Forbo Siegling makes sure the shape you require in finished belts is perfect. Fabrication from several segments results in favourable belt forces, so that even heavy pieces can be conveyed reliably.



Belly loading systems

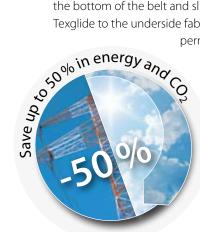
This loading concept requires a wear-resistant top face and a special fabric bundle as tension member. The belt must withstand high effective pull and, at the same time, it must be troughable.

Inclined conveying

For reliable inclined conveying, Forbo Siegling provides patterned belts or belts with lateral profiles.

Amp Miser[™] 2.0 Energy saving conveyor belts

Due to a significantly reduced coefficient of friction, Amp Miser™ 2.0 belts make an impact where energy losses in a conveyor are usually the greatest: in the friction between the bottom of the belt and slider bed. By adding patented Texglide to the underside fabric, a smooth layer is created that



permanently acts like a dry lubricant and therefore minimises energy consumption.

Best choice on galvanised slider beds

The second generation of Amp Miser[™] types are also perfect on otherwise tricky galvanised slider beds. Compared with the previous belts, the coefficient of friction of this generation has been halved to $\mu < 0.17$. And it's just $\mu < 0.13$ on non-galvanised steel.

Extremely economical consumption

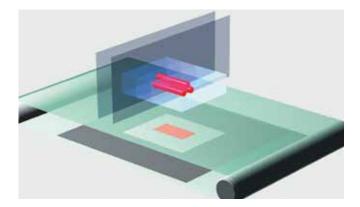
Compared with standard types, in typical applications with long conveyors and heavy loads, up to 50% energy savings are possible, now.

Belts for Checked Baggage Screening (CBS) Systems

New CBS systems for the reliable, efficient and thorough inspection of baggage were developed to meet the safety regulations of international aviation organisations. Specially-developed products from Forbo Siegling are decisive components when it comes to the operation of "Explosive Detection Systems":

- Precise belt tracking and good flatness make excellent image definition and high-quality image transmission possible.
- High uniformity of material and splice minimizes the influence of the belt on the X-ray image.
- Thanks to the homogeneous splice area, shadows or dark X-ray images resulting from the splice are practically eliminated.
- Our high quality coating materials ensure top quality x-rays.

Forbo Siegling is your competent partner when it comes to advanced CBS systems.



Available as

- endless belts
- open belts prepared for hot or cold pressing on site
- roll material for customer to finish
- belts with mechanical fasteners
- belts with edge sealing
- belts with welded profiles

Product range (Selection)	Technical data, properties and recommendations, possible applications	Total thickness approx. [mm]	Weight approx. [kg/m²]	Effective pull at 1% elongation ($k_{1\%}$, relaxed) [N/mm width]*	d _{min} approx. [mm]**	Check-in conveyors	Collecting belts	Horizontal conveying	Inclined conveying	Curved belts	Belt junctions (depending on system)	Telescopic conveyor	Braking belts	Start-stop belts	Pusher belts	X-ray conveyors
Novo line										_						
NOVO 25-HC-SE black	906235	2.5	1.3	7.0	40			•								
NOVO 40-HC-SE black	906236	4.0	2.2	7.5	90			•								
NOVO 60-HC-SE black	906237	5.5	3.1	8.0	125			•				_		_	_	_
PVC line																
E 8/2 U0/V5H MT-SE black	999967	2.25	2.7	7.5	60											
E 8/2 U0/V10H-M-SE black	906538	3.1	3.6	8.0	60		•	•								
E 8/2 U0/V15 LG-SE black	906313	3.1	3.4	8.0	40								•	٠		
E 8/2 U0/V20 AR-SE black	999532	4.9	4.2	8.0	60									•		
E 8/2 U0/V80 R80-SE black	996121	8.2	4.7	6.0	60/125	٠										
E 8/2 U0/V80 CH-SE black	906277	8.2	4.4	6.5	60/125											
E 12/2 U0/V10 STR-SE black	900323	3.1	3.8	9.5	60		•									
E 12/2 U0/V/U0 SE black	999903	2.0	2.3	11.0	60		•									
E 12/2 U0/V6 GSTR-C-SE black	906495	2.65	2.7	4.0	30 (60) ³⁾											
Amp Miser™ 2.0 types																
E 10/2 TX0/V5H MT-SE-AMP blac		2.2	2.4	9.5	40											
E 10/2 TX0/V15 LG-SE-AMP blac	k 906810	2.7	2.9	9.5	40				•							
																_
PU line										-	-					
E 8/2 U0/U2 MT-C-SE black	906391	1.2	1.4	5.5	$14^{1}/5^{2}$					•						
E 8/2 U0/U2 MT-SE black	906399	1.45	1.55	6.5	24 (40) ³⁾							•				
E 8/2 U0/V/U2H MT-SE black	906401	1.65	2.0	7.0	40/601)		•									
E 8/2 U0/U10S LG-SE black	906650	2.2	2.4	8.0	30				•				•	•		
E 8/H U0/U4 QS black	906541	1.5	1.6	7.5	24											•
E 12/2 0/U3 GSTR-C-SE black	906718	2.1	1.9	4.5	40											

Numerous other belt types and designs are also available. Newly developed product innovations are being added to the Siegling Transilon product range constantly to meet the requirements of the market.

Legend

- Established in line with ISO 21181:2005
- ** Minimum drum diameter was determined at room temperature and does not apply to conveyor belts with mechanical fasteners. Lower temperatures require larger drum diameters. Belts with profiles or sidewalls may require larger drum diameters. Please see brochure ref. no. 318, Siegling Transilon Technical Information 2.
- ¹⁾ Without/with counter-bending
- ²⁾ With rolling knife edge
- 3) First figure: Z-splice; figure in brackets: overlap splice

- **AR** = Anti-skid pattern
- **CH** = Check-in pattern
- **GSTR** = Coarse textured pattern
- **LG** = Longitudinal groove
- **MT** = Matt surface
- **QS** = Quarz sand structure
- R = Large diamond pattern
- **STR** = Normal textured pattern
- **AMP** = Amp Miser[™]
- = Laterally flexible, С suitable for curved belts
- **HC** = Highly-conductive
- **M** = Particularly stiff laterally **S** = Soft
- **SE** = Flame-retardant
- **TX** = Texglide[™]

Please note: the values stated are nominal and can fluctuate in a belt whose width is a result of production processes. Our products are constantly adapted to market requirements. Consequently, changes in technical parameters can occasionally occur. Therefore, please see the current product data sheets for specific information on designs and calculations.

Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality Management System is certified in accordance with ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001.





Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs more than 2,000 people. Our products are manufactured in nine production facilities across the world. You can find companies and agencies with warehouses and workshops in over 80 countries. Forbo Siegling service points are located in more than 300 places worldwide.



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Forbo Movement Systems is part of the Forbo Group, a global leader in flooring and movement systems. www.forbo.com