

# CASE STUDY



## CALJAN CURVETRACK – FRAPORT AG, GERMANY



### »SERVICE-FRIENDLY EQUIPMENT REDUCES DOWN-TIME«

#### HANDLING 40 MILLION PIECES OF BAGGAGE

Frankfurt airport expects to grow from its current capacity of 40 million passengers to some 88 million passengers by 2020 – corresponding to approx. 700,000 takeoffs and landings. In order to smoothly process the various items of baggage for this huge number of travellers, reliable baggage handling equipment is an absolute must. Ideally, all components in the conveyor system should operate 20/7, 365 days a year. As this is hardly achievable, Fraport focuses on using reliable, service-friendly equipment that requires a minimum of maintenance. Fraport monitors market developments searching out best-in-class components. Together with system integrators, suppliers are carefully selected and their products vigorously tested.

#### SERVICE-FRIENDLY CURVE CONVEYORS

Preventing down-time is the biggest challenge for the baggage handling team. Mr. Christoph Sturm, Project Manager with Fraport AG explains »Baggage today is rather sophisticated; suitcases are all shapes and sizes, backpacks are soft with straps and fasteners, baby buggies are all angles and wheels. This increases the risk of parts being caught or trapped in pulleys and transmissions between conveyors. Conveyor belts, the beading in particular, become worn or damaged and debris may be drawn into the belt guiding system.«

In Christoph Sturm's opinion belt curves with an angle of max. 90° are best suited to baggage handling systems: »We do have a number of 180° helix belt curves, but I wouldn't recommend installing these in a new system as service costs can be rather high. Parts for 90° belt curves are cheaper and replacing them is much quicker, particularly if the belt requires changing.«

Fraport selected CurveTrack with 90° angles on the merits of the design, in particular the service-friendly aspect of the belt guidance system.



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## Christoph Sturm, Project Manager, Fraport AG

»Although our policy is not to commit to a single supplier, I am convinced of the quality of Caljan CurveTrack.«

Christoph Sturm continues »Our experience to date has been extremely positive. The conveyors have run since December 2008, requiring no adjustment or service. During operation, we can see that the design of the belt guidance system means that dust and debris doesn't build up around the belt retainers.

Although maintenance has not yet been necessary, the design of the belt guidance system – the beading in particular – gives our service technicians some key benefits. Changing essential parts, e.g. the belt or the drum, appears to be faster than with other conveyor types as there is no need to disassemble single parts.«



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## Fraport AG Frankfurt Airport Services

Fraport AG is responsible for operating Frankfurt Airport, one of the world's most important air transportation hubs.

Frankfurt Airport is the second largest Freight Terminal in Europe transporting more than 2 million metric tons each year. With more than 53 million passengers in 2008, FRA is the eighth largest passenger airport in the world.

The international significance of FRA airport is primarily due to its hub function and its ability to bundle traffic. This is reflected by its 54% share of transfer traffic.

In comparison, London Heathrow (LHR) has only 35%.

Frankfurt Airport has approx. 70 km conveying systems handling around 40 million pieces of baggage per year.

In addition to airport planning, design, operation, retailing and airport management, Fraport AG also manage information technology, environment and safety.