



Self Check-In Airport

Smart, visually attractive and safe integration

The challenge

Modern, reliable and fully automated self-check-in handling systems in airports or train stations can handle many travelers with diverse luggage types quickly and efficiently. The luggage is weighed in an initial step, and then it must be channeled quickly and accurately by the self-check-in station into the airport's automatic luggage handling process behind the station and transferred for further handling.

The solution

The conveyor belt model TB40 with a high-power-density 24V DC motor directly integrated into the drive roller proved to be the ideal solution for these special requirements. We designed the conveyor belt in two-line sections. In the first one, the conveyor belt is in the structure of the scale. As soon as each item of luggage is weighed correctly and registered in the system, it is transferred to the second line section. From this point, each item of luggage is transferred using a release signal to the fully automated luggage handling process located behind the conveyor lines.

For both line sections, we use special flame retardant, low-noise and highly durable conveyor belts.

This enables us to meet the airport standards for compliance with personal safety and fire safety regulations.

Benefits for the customer

- Customized, individual project support
- Fully integrated weighing and transfer process
- Space efficiency with chassis height of only 80 mm
- Highly flexible in shape and function
- Connection of the intelligent drive control to PLC.

Specifications

Product	Conveyor belt TB40
Drive / Position	24V, integrated
Conveyor belt width	600 mm
Conveyor belt length	1800 mm
Weight conveyed	80 kg
Speed	0 - 33.5 m/min
Belt type, endless	NHM-8ESBV 13

Application impressions:



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