



TB30 Double belt with central clearance for component inspection Conveyor System

The challenge

A company in the automotive industry needed several belt conveyors with a central clearance that would allow parts to be transported and inspected by a camera from below on its production line. Because the specific contours, surfaces, and heights of the components deviate from standard parameters, a tailor-made solution was required.

The solution

In order to fulfill the customer's requirements, we provided the TB30 double-belt conveyors with a central clearance. The customer positions cameras beneath the belt. The workpiece carriers slide through the central clearance with the components fixed facing downward in order to check their contours and surface. Today, the use of an image processing system is particularly useful in manufacturing industry to ensure that all parts manufactured meet quality standards. Defective parts can be detected quickly and eliminated. In order to fulfill the customer's requirements, the upper edge of the belt had to be raised 10 mm, which is why we used appropriately designed belt bases. The distance between the belts was adjusted according to the size of the components. This is how we optimized the conditions not only for transport, but also for simultaneous inspection of components. In addition, the components can be transported beyond the end of the belt without the contours interfering with handling. The product flow is free of interruptions and safe.conformity.

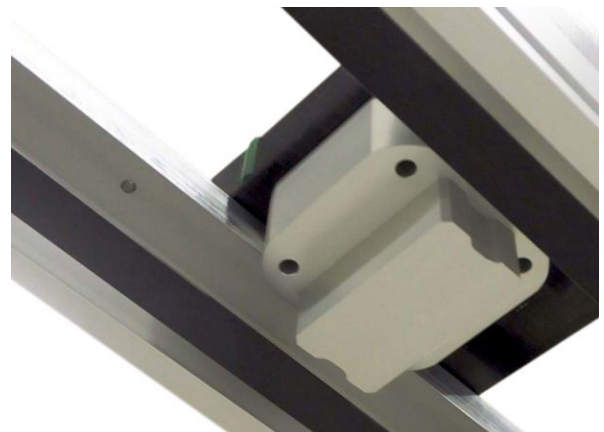
The customer benefits

- Safe and uninterrupted transport
- Adaptation to the existing structure (customer's camera below the transport area)
- Individual belt conveyors according to specifications
- Increased productivity and profitability

Technical Data

Belt type	Double-belt TB30
Drive	Three-phase motor, 400 V, 50 Hz
Belt conveyor width	140 mm
Usable conveyor width	120 +/- 0.5 mm
Distance between workpiece carriers	50 mm
Max. transport weight	24 kg Accumulation operation / 50 kg Conveyor operation
Speed	4.6 m/min at 50Hz
Belt type	ENI-5EE endless

More impressions



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