

Longitudinal transfer system with single and double belts Conveyor System

The challenge

A customer in the automobile industry was searching for a compact circuit with test units that contact and test the workpieces from below. This customer wanted a special arrangement of single and double belts. The problem with the customer request: Due to the quantity of milling in the workpiece carrier and the double-belt belt conveyors, there is not enough support and/or friction between the belt and workpiece carrier to allow it to be transported around a curve. In addition, the workpiece carrier tilts and gets stuck between the belts on the sheet metal.

The solution

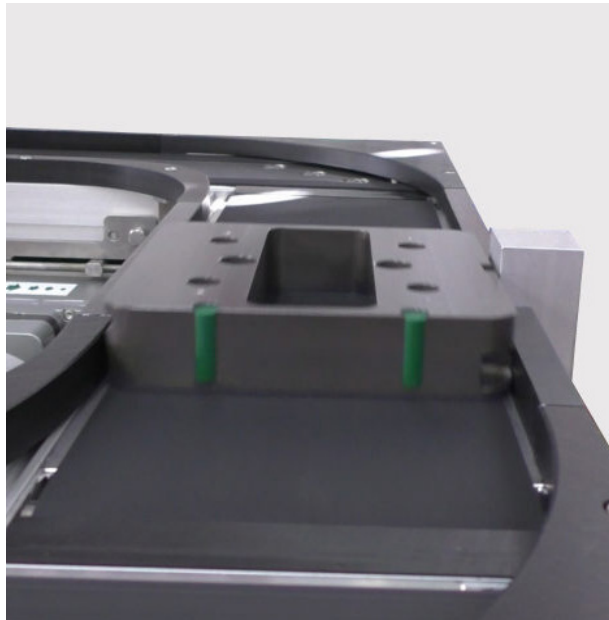
An arrangement with single belts on double ones is normally not permitted. Thanks to our special design, we were able to make the customer's wish come true. We mounted ball casters in the 90-degree curve to bridge the gap between the belts and support the workpiece carrier. This also minimizes friction, and the workpiece carrier glides smoothly through the curves. The height-adjustable ball casters in the chassis prevent the workpiece carrier from tipping over and colliding with the belt of the subsequent belt conveyor.

The customer benefits

- Custom-tailored solution
- A compact transfer system in a confined space
- High degree of automation
- Attractive, functional design
- Optimized work process
- Various processing and testing stations
- Fast delivery times thanks to minimal special design

Technical Data

Belt type	TB30D-140
Drive	Brushless DC motor
Conveyor belt width	140 mm
Size of workpiece carrier	115 x 115 mm
Takt time per workpiece carrier	1.5 seconds
Max. Transport weight	v = 0.5- 19.1 m/min
Belt type endless	ENI-5EE, anti-static



Headquarter: Montech AG, sales@montech.com

Branch USA: Montech Conveyors Corp., info.us@montech.com