

VarioDetect

Reliable automatic exception detection



The challenge

To process parcels efficiently, accurate sorting is key. It is important that items be compatible with the systems' processing spectrum. Incompatible items, or exceptions, can result in missorts, cause jams, and even damage equipment.

Doubles – items that stick together – or two or more of them lying side-by-side, as well as misaligned or oversized shipments are examples. Such shipments need to be identified and sorted out as quickly as possible.

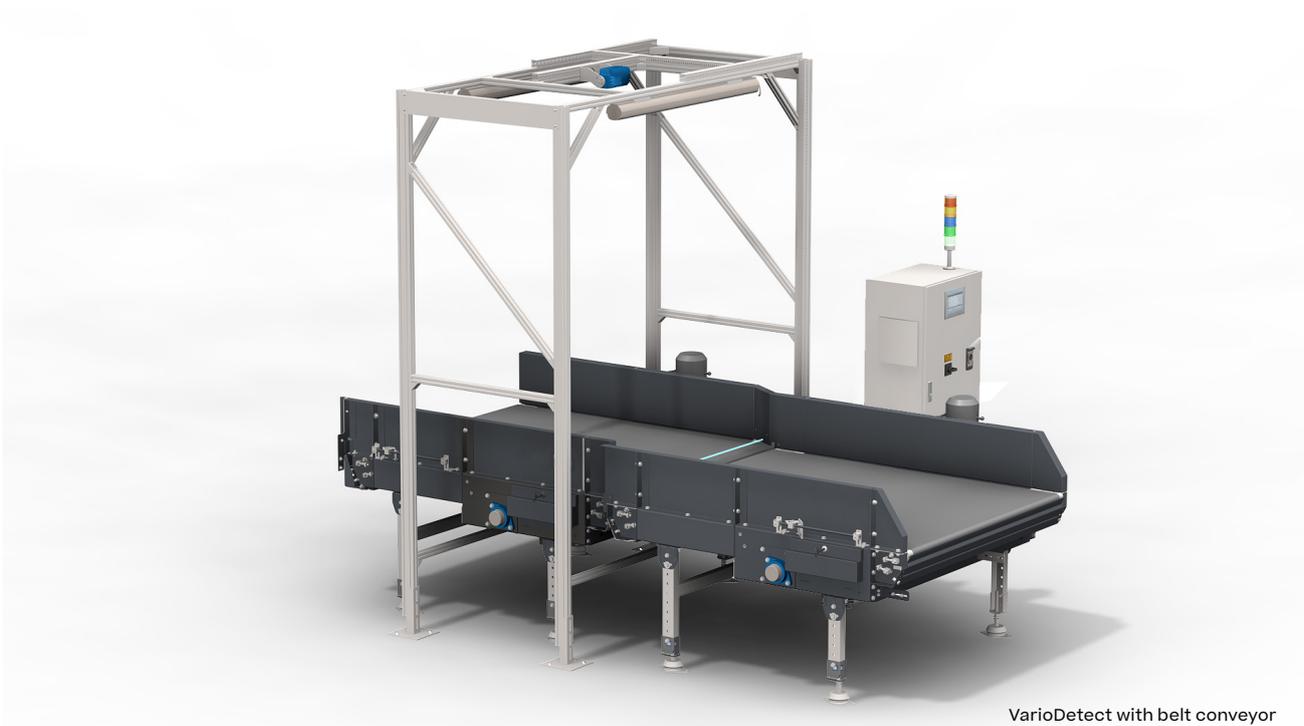
Our solution

VarioDetect automatically identifies exceptions as they pass in an aligned stream. Intelligent algorithms analyze the data captured by a 3D camera and recognize whether there is an exception that needs to be removed. An additional light barrier monitors the gaps between the items. The corresponding information is then sent to subsequent handling systems that automatically redirect those parcels.

The vision system is highly adaptable and can easily be trained to meet various customer needs. Its flexibility and adaptability make sure that high performance is maintained in spite of ever-changing packaging and formats.

Customer benefits

- Minimized damage to goods and equipment
- Optimized sorting accuracy
- Highly adaptable recognition system
- Adaptable to specific and unique exceptions
- Easy integration into existing systems



VarioDetect with belt conveyor

Technical data

Operational transport-speed	maximum 2.2 m/s
Length	1,040 mm
Width	2,240 mm
Height	2,900 mm
Weight	235 kg
Belt width	600 mm - 1,500 mm
Power supply	230 V AC
Temperature range	0 °C - 40 °C

Parcel sizes

Length	100 mm - 1,200 mm
Width	100 mm - 1,200 mm
Height	3 mm - 610 mm
Weight	depends on underlying transport system

Detectable exceptions (examples)

- Oversized / Undersized
- Misaligned
- Clustered Parcels
- Side-by-Sides
- Doubles / Multiples

Higher performance values on request.

