

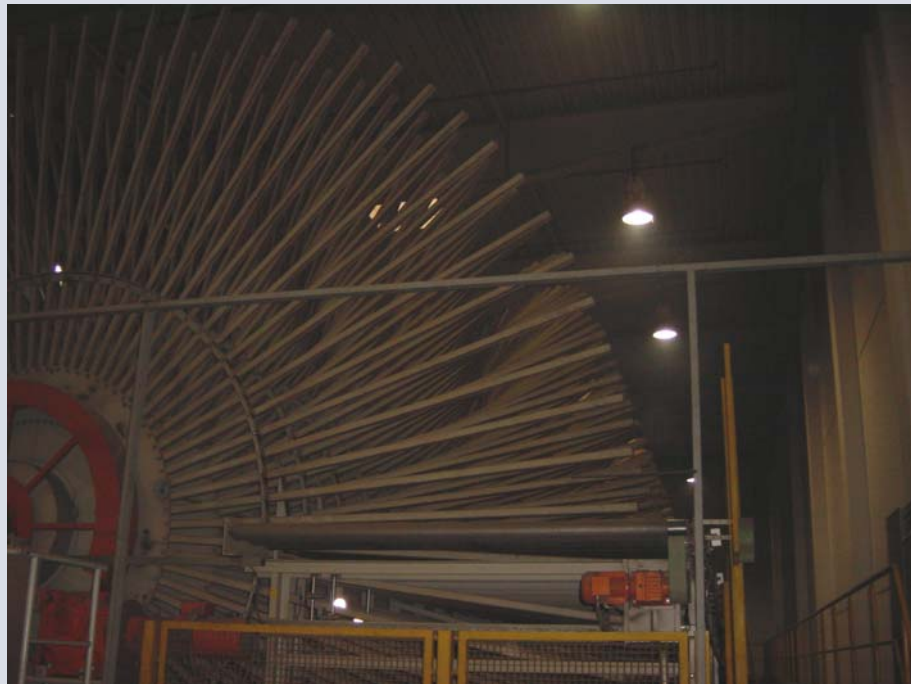
## CHIPBOARD DETECTION IN DIRTY SURROUNDINGS

MARKET: MATERIAL HANDLING

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### TASK

The chipboard turner from BHT Bau- und Holztechnik Thüringen GmbH requires a detection system that can reliably detect whether a compartment is occupied or not, even in dirty and dusty surroundings.



Chipboard turner

### IMPLEMENTATION

The solution consists of approximately 30 ultrasonic sensors **UB500-30GM-E5-V15**, which are installed horizontally between the roller conveyors. The attached sound deflector **UVW90-M30** deviates the ultrasound upwards and the sensor detects whether a compartment is occupied or not. Dust and dirt cannot settle on the active sensor, but it falls down through a slot in the sound deflector.



Sound deflector



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Ultrasonic sensor with attached sound deflector between the roller conveyors

### CUSTOMERS' BENEFIT

Using the ultrasonic sensor with attached sound deflector helps prevent error signals and downtimes caused by contamination.