MATERIAL TRACKING

BHDT Best High Pressure & Drilling Technology

SITUATION

BHDT is a technologically qualified supplier and manufacturer of high-pressure equipment and high-pressure components for the chemical and petrochemical industry, as well as pumps generating pressures for liquid media. Within their production location in Austria, custom orders run through different manufacturing steps including sawing of raw steel pipes, drilling, milling, painting and assembling to finished high-pressure products. Due to the fact, that some production steps take longer than others, forklifts carry the half-finished high-pressure components to temporary storing spaces until the next machine is ready to process them. Knowing the state of the orders and where to find them is crucial to the production throughput and can cost a lot of time, especially when goods are stored chaotically, and their locations are not known.

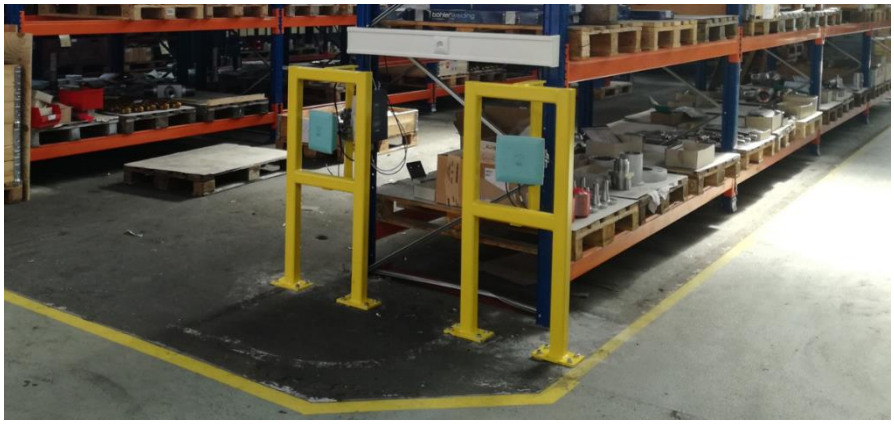
SOLUTION

To increase order transparency and minimize look-up time, 7iD Technologies installed an innovative material tracking solution consisting of 600 tagged pallets, 600 floor tags, 5 gates with direction detection, 3 tagged forklifts with antennas on the

KEY BENEFITS

- Increased order transparency within the production
- Higher efficiency
- Quality improvements

bottom and on the fork as well as individually, tailor-made business software to integrate the material tracking solution in the current ERP system. Heart of the solution are forklifts and floor zones equipped with tags in the distance of half a meter. When a forklift picks up a palette after a production step, the front antenna identifies the carried order and stores this information. As the worker moves the semi-finished products to another machine or free space, either the gates detect the side tag on the vehicle, or the bottom antennas of the forklift identify tags on the floor and match this second information with the carried order.



By combining both, 7iD is able to provide the ERP system with information as to which pallet was stored in which zone. This is done via the WIFI terminal on the forklift, which is connected to the reader. However, since the zone is not precise enough, a map on the terminal of the forklift opens and the driver sets the coordinates where he dropped the goods. As a result, BHDT knows exactly where its orders are during production. And though additional gates at the transition zones between the process steps, they know the location of a forklift and the status of an order. If a palette is brought to the wrong machine, the forklift terminal receives an alarm.

COMPONENTS

- 7iD's IoT DIP Platform™
- 600 tags on the floor and on palettes
- 5 gates with direction detection
- 3 forklifts with antennas on the bottom and the fork
- Tailor-made business processes
- Interface to SAP

tagged for success.

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