

## RFID solutions for logistics

### The ultimate evolution of labelling

#### WHY ROTAS?

- ▶ Since 2000, Rotas has been manufacturing labels, cards and badges with HF and UHF RFID tags. Active tags are also available.
- ▶ Rotas has a production facility which is unique in Europe for high volumes, low costs, and quality assurance.
- ▶ Rotas employs the state of the art technology (Class1 Gen1, EPC certified) for customized applications, successfully operating even in extreme environments and conditions. Different sizes and frequencies are available to meet the standards of every part of the world.
- ▶ THYSSEN KRUPP selects Rotas to solve a safety issue. DHL selects Rotas for logistics optimization. G8 ENERGY MINISTERS MEETING 2009 selects Rotas for access control...
- ▶ Rotas employs an integrated approach to packaging solutions. It handles a problem analysing it in all its different elements, each single component and all their technical correlations.



#### BENEFITS

- ▶ Complete warehouse automation
- ▶ Long-range readability
- ▶ High read rate – multiple items can be identified simultaneously
- ▶ Readable in difficult environmental conditions
- ▶ Readable from the forklift
- ▶ Complete real-time traceability
- ▶ Inventory flow monitoring and control
- ▶ Inbound-outbound operations time reduction
- ▶ Delivery time reduction

#### DEMO VIDEOS



#### An example from the clothing industry

**In:** 110 boxes, 10.000 items

Manual reading time: 6 hours

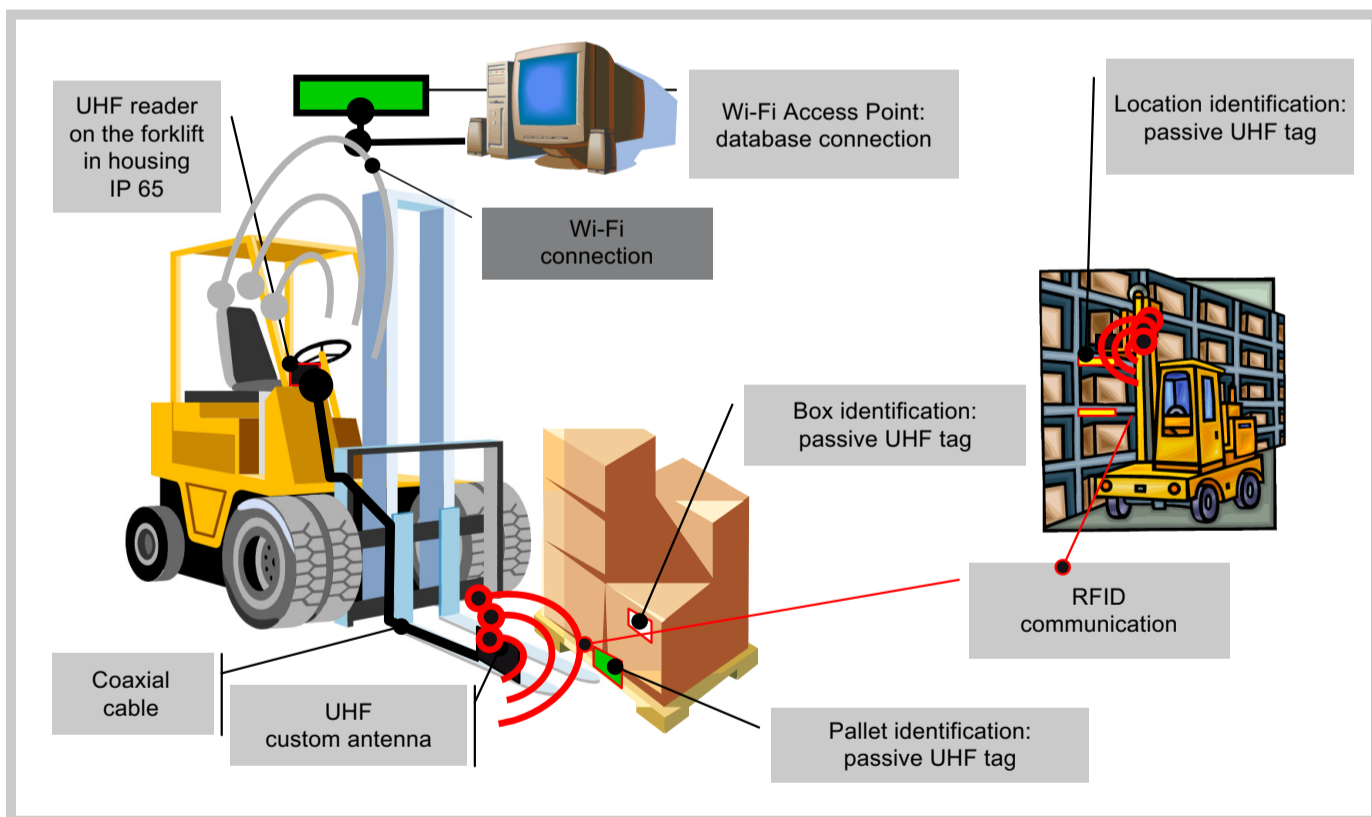
RFID reading time: 36 minutes

**Out:** 520 boxes, 10.000 items

Manual reading time: 6 hours

RFID reading: 1.5 hours

#### Pallet/box identification



- ▶ HF and UHF passive tags, Active tags 2.45 Ghz
  - ↳ HF with 3D antenna: reliable performance even in the presence of metal, water, people, etc
  - ↳ UHF: the most widely used in logistics applications, long-range readability up to 10m, multiple identification of a high number of items.
  - ↳ Active tags: long-range readability up to 80m for specific purposes, low-cost readers available.
- ▶ Multilevel tracking: from the single item to the box, to the pallet.
- ▶ FlexiWare: middleware infrastructure for the communication between RFID system and the client's software

For more information please contact our RFID Department: Tel.: +39 0422 433100 mail: rfid@rotas.com

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