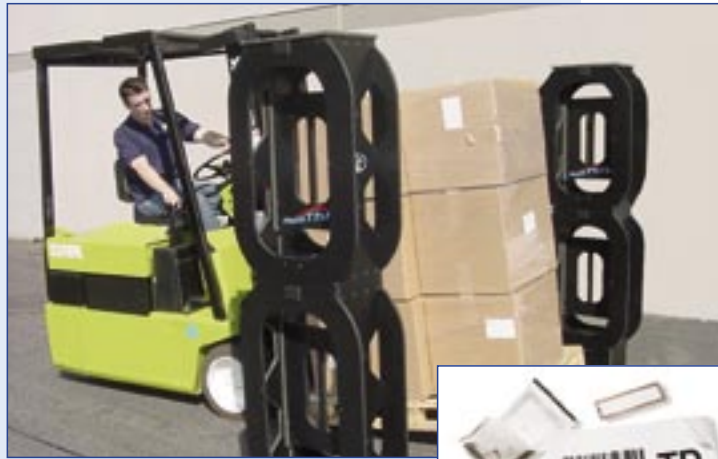


# RFID

## and HYDRA



Traceability: tracing of products and batches

Documentation of the product generation processes

Control and monitoring of the material flow

Managing and monitoring inventories

Support of the quality assurance

# RFID with HYDRA-MPL

## Traceability with RFID in HYDRA

RFID (Radio Frequency Identification) signifies a total system consisting of a (bar code) reader as well as of ID cards, the so-called RFID-tags. These media can be read out without having direct contact or view it and additional information can be written onto it.

### Fields of application of RFID

In the past, RFID tags have already proved of value as reliable information medium, especially in production processes where a secure readout of bar codes cannot be guaranteed due to dust, fluids/liquids and heat. The RFID technology is applied in areas for which it is necessary to be able to ensure the traceability back to the manufacturer – for instance in the food industry.

RFID-tags provide the following benefits:

- Resistance against environmental impacts
- Reading and writing of information without the need of direct view or contact
- Reading of several RFID-tags at the same time
- Reusability
- Use of RFID-tags as electronic work label

## RFID supports you in achieving the efficient factory

- Support of the quality assurance
- Capture of the production progress
- Order-related monitoring of materials
- Tool identification
- Documentation of the product creation

RFID is regarded as one of the key technologies for the optimization of process chains. The requirements of an efficient factory, transparency and automation of existing processes, are met by means of this technology. Thus, processes, which have so far been resource-intensive, are now simplified. The possibility to add information to products or sub-products at each step of the process chain enriches the current possibilities of MES functions such as quality management, material flow and production control, which are already represented by the MES system HYDRA today. In this way, products can be traced back to their point of origin – quality defects as well as possibilities to optimize processes can be displayed. Consequently, products and processes become more transparent.

## HYDRA & RFID: strong partners

The use of the RFID-technology as information carrier for the MES HYDRA increases the transparency and efficiency of each production process. Each product is provided with its own identity and the current data, saved on



Example of HYDRA-MPL when RFID is used

the RFID-data carrier. These data can be read out and modified at any place.

At the same time, the MES HYDRA is that flexible that it can easily be adapted to your individual process structure.



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