

MODI



MODI Relabelingstation 100% Traceability

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For all types of barcodes on reels, drypacks and cardboard packaging

MODI

The system uses the sum of all barcode / data matrix code information from incoming goods in order to serve as a read / data / and traceability interface by saving information and sending them to the following processes.

Convince others!

Gapless traceability at customer and quality audits!

In modern industry all components must be able to be tracked throughout the entire production process. That way you ensure permanently which part with its charge / lot number / data code is placed where and at what time.

Make sure every article matches 100% your specification!

In the first reading process the system compares all read data with an article master database. Only if the information matches the master data the system releases the article.

Eliminate all misequipment costs due to wrongly marked narts!

While the system releases the article it prints out a customer designed barcode label. After relabeling the part it needs to be re-read to make sure that the printed label is readable and consistent to the producer label.

Most flexible ergonomical handling!

The system keeps the operator from any validation and shows maximum process safety. With an infinitely variable height adjustment it can be adapted to any operator.

Unbeatable performance

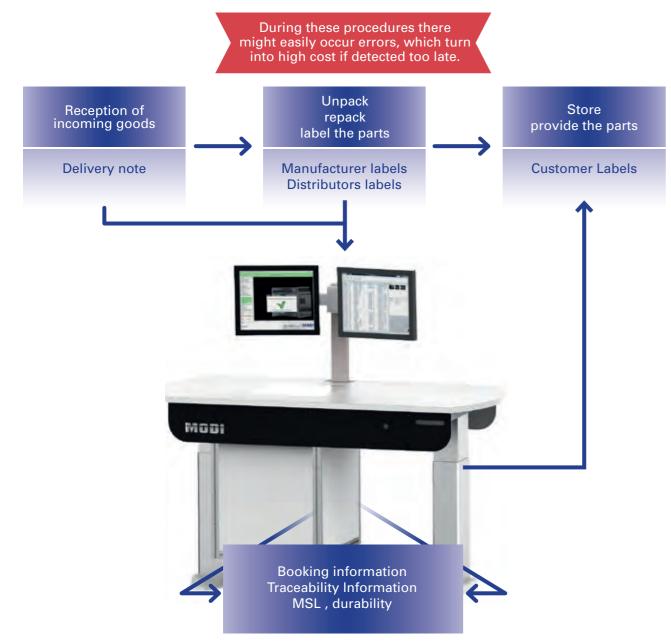
Reading procedure and information check in less than two seconds!

Everything from one source!

Hardware and software engineering in the same location. We are able to react in a flexible way to customer requirements and to find finely tuned solutions.

- → REDUCE OF OUT-OF-STOCK COSTS!
- ELIMINATE MISEQUIPPING!
- RELEASE PRESSURE FROM YOUR OPERATORS!
- REDUCE DOUBLE HANDLING ACTIVITIES, ACCELERATE YOUR PROCESS AND GAIN MAXIMUM RELIABILITY!

Employment into the process of goods receipt



How do you make sure that ...

- all positions on the delivery note are complete?
- all items are marked correctly?
- every item matches the specification requirements?
- the traceability is given in case of a part change?
- designation changes will be detected without prior information by the supplier?

- an error of the supplier causes your stoppage in production or even customer reclamation?
- suspect parts are blocked before they get into the production area?

Wether it is serial label printing from the ERP software, data entry via mobile scanner, booking of delivery note information or any other manual data entries:

Wherever there is a need for visual control and manual data entries by an operator the risk rises along with the manual work done.

The solution









Example MODI WE Relabeling station with ERP interaction

Step 1

The process starts with the collection of the delivery note information. There are two options to acquire the needed information. Depending on the ERP software it is also possible to work with ASN (advanced shipping notification) data. Together this information comprises the expected total of material. By placing the delivery note onto the reading area the system reads out all information and compares it to the ASN.

Step 2

Now the operator starts the relabeling procedure. By placing the reel or cardboard packaging onto the reading area the system reads out the manufacturer label and checks it with a master database in less than one second. If all information correspond with each other and if the item is not blocked within the system the printing process starts.

Now the printed label is placed onto the actual part. In a second scanning procedure the system checks if the right label is placed onto the right material.

Now the procedure is finished for the operator.

Step 3

Once the system achieves the expected amount out of ASN and shipping note the booking is triggered.

While all traceability mechanisms run in the background a wide range of information is saved in a special traceability database.

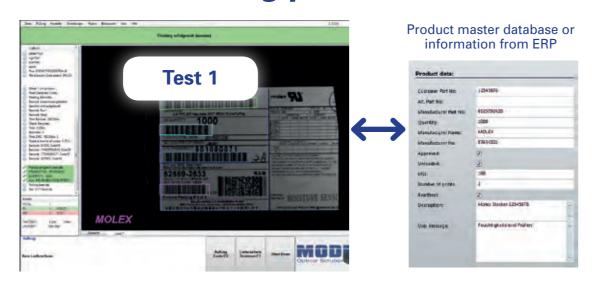
All collected data, image documents, booking and release information are distinctly assigned to a printed customer label.

The MODI procedure (reading and data checking procedure)

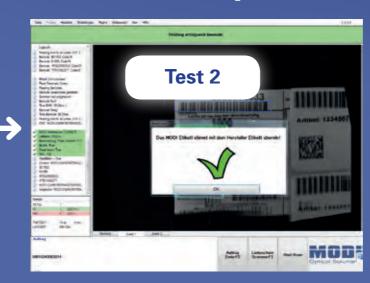
The read information is compared with the item master database or via an interface with the expected ERP data. The query comprises all information necessary to clearly identify the article.

If all data are consistent and the article is released the test is completed successfully.

Reading procedure



Counter-check procedure



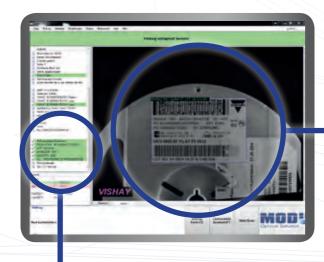
The data acquisition

Once a label is readed it passes through a filtering process. About 80% of all label structures are identified here. This automatic detection is achieved via identifiers and shortcuts in front of the actual barcode content individual barcodes. Furtherthat clearly identifies it. If these

to train the system for the manufacturer's label. This is done once per manufacturer's label type. Here user-defined information areas can be assigned to more, even composite code

are not available it is possible contents in string format can be broken down into their individual information. By this way, all contents even without identifier can be clearly assigned and identified.

Example: PDF Code without identifier





Example: 2D Code with identifier





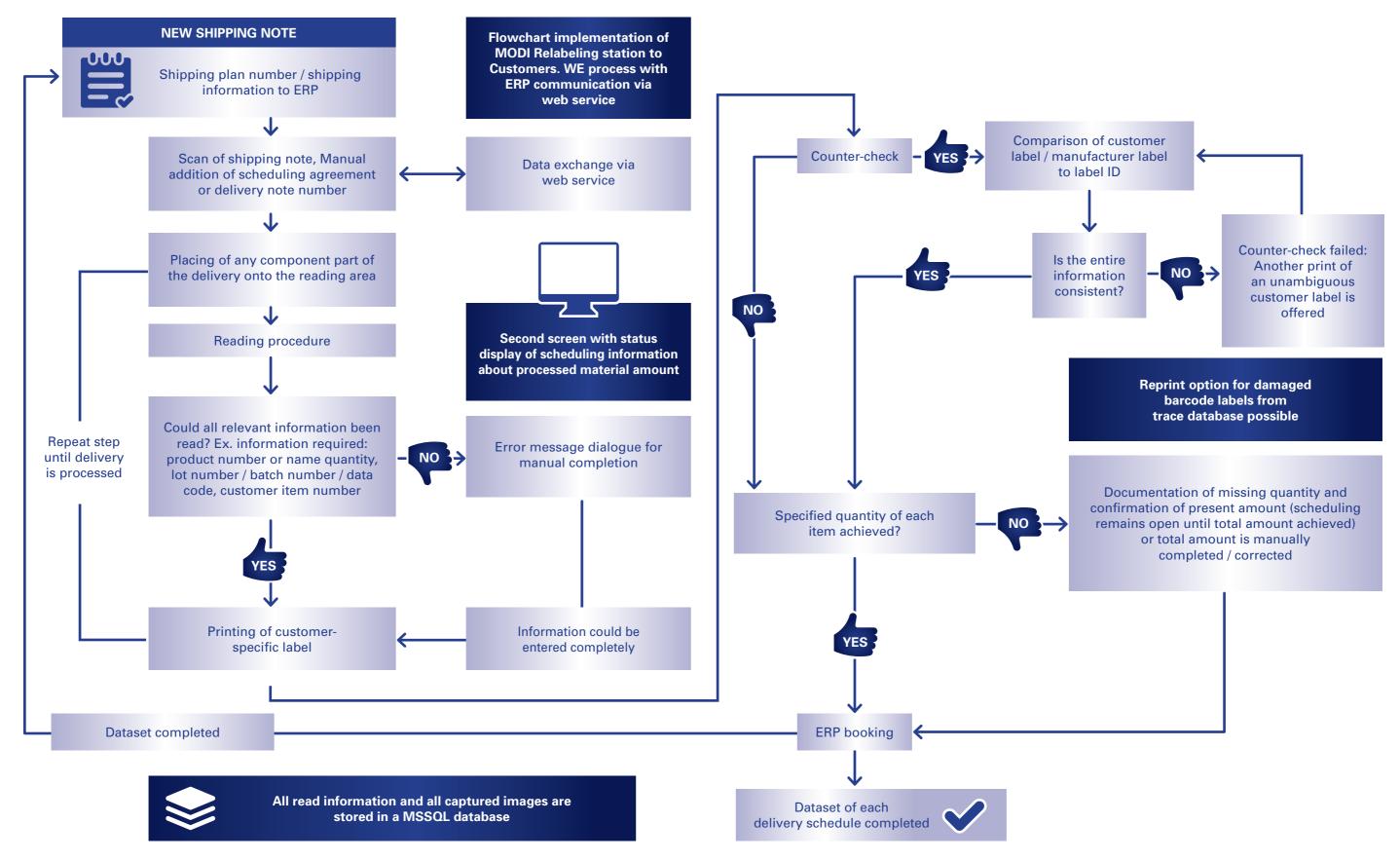
Each identifier represents a certain content (Example: 1P for manufacturer product number, 1T for trace code / lot). The identifier can be added freely and linked with certain contents.

Prüfung erfolgreich beendet. PRODUCTNO: MCU0805MC3321FP500 LOT: 14374104 DATECODE: 1437 QUANTITY: 5000 Prufung beendet. Zeit: 1,08 Seconds

Traceability



Example: Process diagram with ERP integration via web service



The technology

Heart of the Relabeling station is the Adomo camera technology. The overview camera detects the exact position of all labels that are placed onto the 400x400mm large reading area.

The detail camera is looking into a deflection mirror which moves towards the exact position of the individual labels. By this way the camera resolution is completely focused only on

the label to be read. The entire hardware performance is efficiently directed only towards this area. This results in shortest cycle times and highest reading accuracy.

Technical specifications

Scanning area:	400mm x 400mm
Products:	Reels, drypacks, cardboard packaging, trays
Scanning time:	Approx. 1 Sec.
Technology:	5 megapixel overview camera 5 megapixel detail camera Adomo deflection mirror technology
Interfaces:	Label printer (individually definable) TCP/IP Interfacefree string design
Code types:	Int. 2/5, Code 39, Code 128, UPC/EAN, 4-State, Postnet, Planet, RSS, Code 93, Codabar, PDF 417, Symbology, Data Matrix, QR Code.

Options

Database module	(Article master data) for individual product information
Traceability database	Easy tracking of all read information incl. all images
WebService Modul	For easy connection of ERP systems

Enhancements

Range scanner	Integrated detection of label information on pallet units
Labels Mobile	Enlargement of the Relabelingsstation for material which is difficult to handle. Large and heavy cardboards.
Mobile printer	With belt clip

Everything at a glance

Highlights

- Reading of 1D, 2D, PDF Codes of all types (continuously expanded)
- Highest working speed / shortest cycle times due to innovative ADOMO camera technology
- Ergonomically flexible
- Reliable detection of all contents, simultaneous reading of several labels on the reading area
- Automated booking of ERP information
- Consistent traceability

Follow this link and you

get to see an interesting

product video:

Convince yourself

Make an appointment and convince yourself of the functionality of the system in our showroom (with your material, problem cases are desirable) In a workshop on site we are happy to introduce you to the custom options of the system.



www.modi-gmbh.de/Downloads/Videos/modi-wareneingang14022015.mp4

Your sales contact:

Phone +49 2261 91552-0 info@modivision.net

Enhancements



Mobile enlargement of the WE station for processing materials which are difficult to handle. The 8" rugged tablet communicates with the WE-station. Label printing from mobile printer with belt clip attachment possible.



For fixed installation in the goods receipt. Captures all labels on pallet units, reads barcodes and sends information to ERP and traceability.

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