

# BARCODE in Health Care

Health Care  
practices

Overview



+HIBC1234Y/97365+

**BVD**

Bundes-Verband-  
Dentalhandel e.V.

**FIDE**

Fédération de l'industrie  
Dentaire en Europe

**EHIBCC**

European Health Industry  
Business Communication Council

**VDDI**

Association of German  
Dental Manufacturers

## What is Barcode?

BARCODE means a symbology where the characters consist of combinations of Bars and Spaces. Digits and the characters of the alphabet are allocated a unique set of Bars which will be concatenated as a printed text. This string of Bars is automatically scannable where the original contents will be reconstructed by a decoder as a computer input:

|||| IIII ||II ||II  
A B C ...

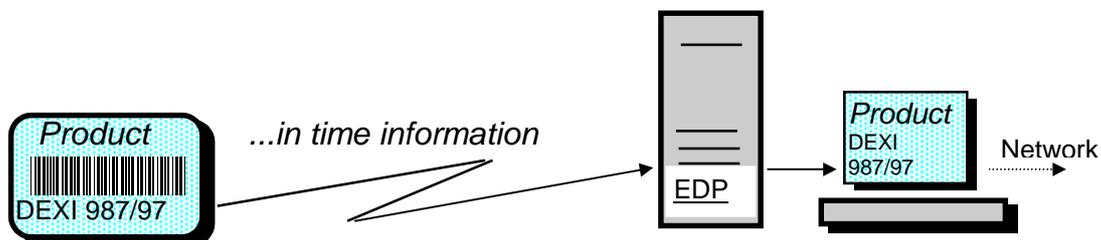
## What can Barcode do?

Barcode connects Information and carries it: Manufacturer ID, Article number, Expiration Date, Lot/Charge number and additional data can be tied together, uninteruptable, but prepared for automatic scanning at any time.



## Barcode is quick?

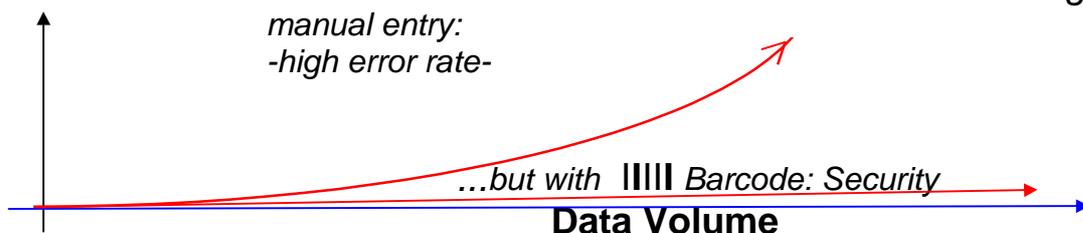
Barcode is scanned in a second, the information is immediately available via computer and network for "just in time" information and processing.



## Barcode avoids errors!

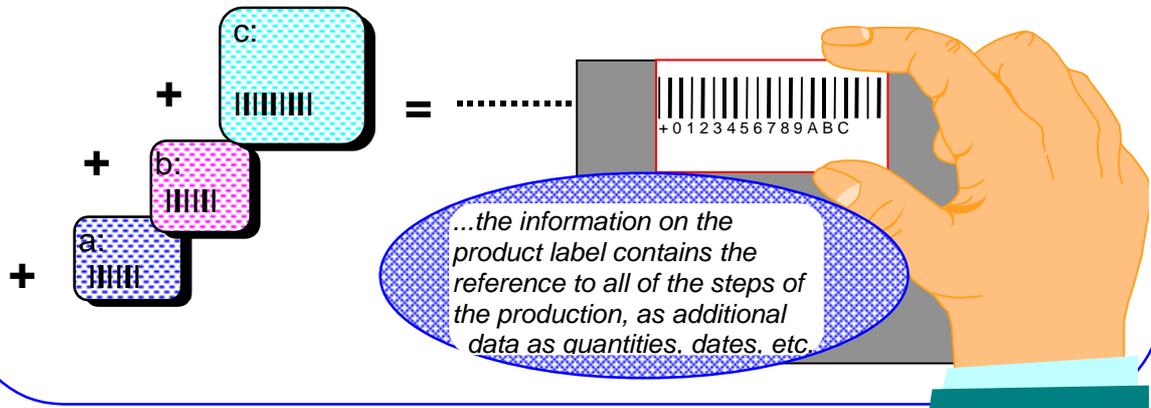
Data collection via Barcode is secure, compared with manual key entry. Errors due to manual errors are avoided by scanning, corrections are no longer necessary. The accuracy of the data in Barcode is guaranteed for the complete material flow process from production to application and usage.

### Errors

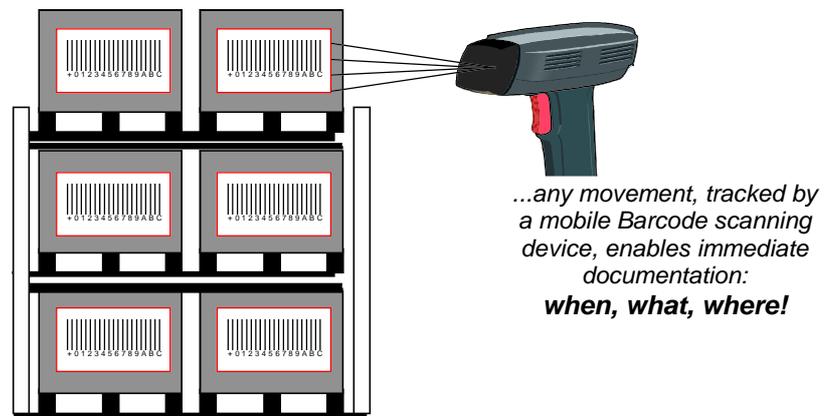


**Where are the potential benefits of using automatic Identification and Barcode?**

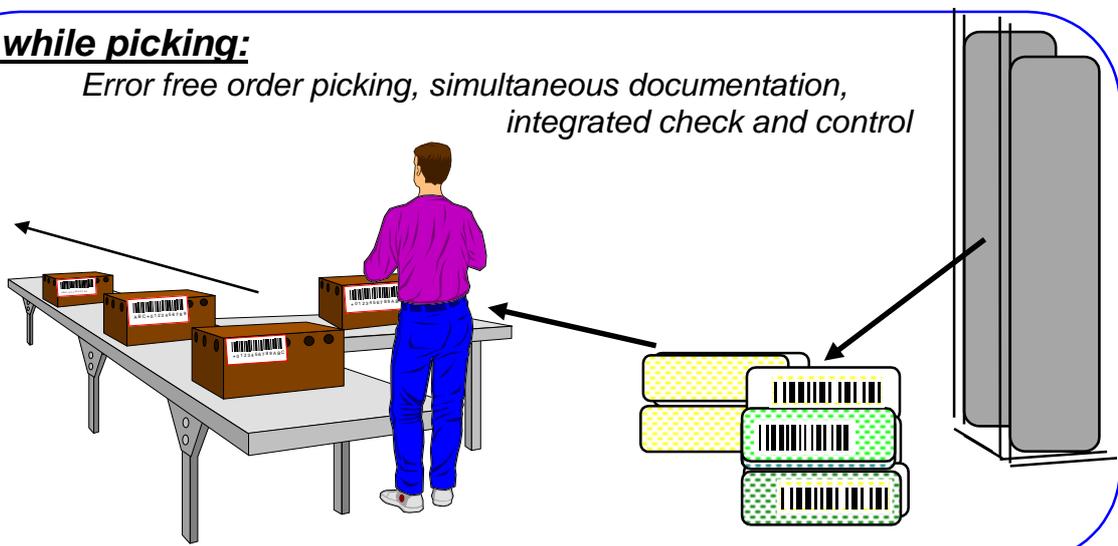
**A** ..... in the production process with:  
*immediate and correct marking of product, date, lot/serialnumber and correct documentation*



**B** ..... in the warehouse:  
*error free, paperless and quick stocking and automatic flow control*



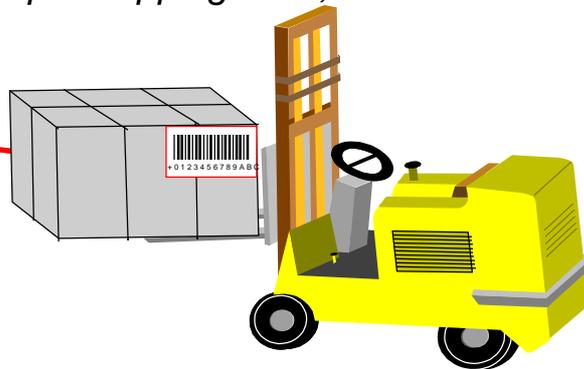
**C** ..... while picking:  
*Error free order picking, simultaneous documentation, integrated check and control*



**D ..... for shipping:**

*individual control of unique shipping units,*

From: DENTIX  
To: XINTEC. FFM  
Reference:  
4JHID1230123456



*interfacing to **Electronic Data-Interchange, EDI**  
by the unique reference in Barcode*

**E ..... at the receiving point**

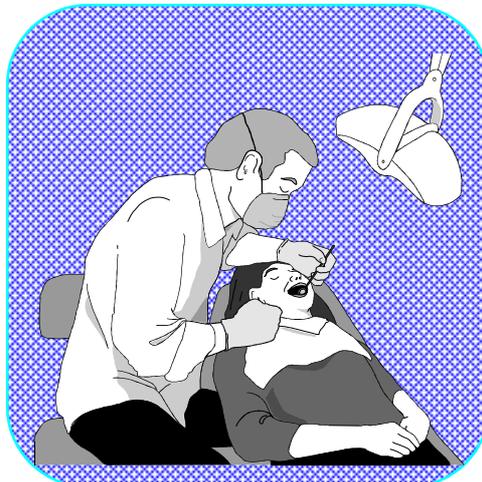
*( with the distributor, within the supply chain )  
quick and error free data collection of complete delivery  
information at the goods receiving area , automatic  
processing of the delivered product and expiration data*

From: DENTIX  
To: XINTEC. FFM  
Reference:  
4JHID1230123456



**F ..... and with the user**

*...error free and quick  
documentation,  
automatic interfacing  
to EDP processing  
and control of  
expiration dates*



## **Technical realisation**

The product information can be stored in Barcode to be scanned and decoded at any time.

### **The Data**

One Barcode can carry all the data:

- |    |                             |                  |
|----|-----------------------------|------------------|
| a. | Manufacturer code, example: | <b>E999</b>      |
| b. | Product code                | <u>MED4567</u>   |
| c. | Packaging level             | <b>0</b>         |
| d. | Expiration date             | 97001            |
| e. | Lot/Charge                  | <b>987654321</b> |
- (additional data segments may be included)

For unique identification, the data elements are embedded within the HIBC structure (**Health Industry Bar Code**), the prefix header mark for recognition of the Barcode is the "+" sign.

The above data segments may be concatenated into one message as shown:

**+E999MED45670/97001987654321**

### **The representation in Barcode:**

In order to meet the requirements of different package or label sizes, the Barcode can be presented according to the data volume and space available, as either a single linear Barcode, a primary and a secondary Barcode or a stacked 2-dimensional extension.:

**A:** Single line linear Barcode:



**\* +E999MED45670/97001987654321 \***

**B:** Stucked Barcode, 2-rows



**+E999MED45670/97001987654321**

**C:** 3-rows for smaller labels:



**+E999MED45670/97001987654321**

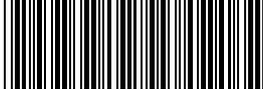
**D:** 4-rows and high density bars makes the code very small:



**+E999MED45670/  
97001987654321**

Representations  
in  
original  
sizes,  
selected for  
illustration

All the samples contain the same information, the Barcode fits to different label sizes by use of the symbology CODABLOCK, the extension of the single line Barcodes, sticking the rows automatically and concatenating the data safely. Without using the rules of CODABLOCK, the data would not have logical connection within the different lines. For system implementation the necessary state of the art hardware and software components are available in the market place.

**“One Product  One Number“**

*Barcode is the common reference for a unique product, enabling continuous traceability through out the supply chain. This unique reference makes it possible, that the distribution partners are able to connect the suppliers ID any time with its own numbering system and database without relabeling the product. Barcode once applied to a product can be used at all logistical movements. Even for the end user it might be very attractive to learn how to get all of the benefits of error freeness and logistical quality, easy to be achieved using Barcode.*

*A detailed guideline for integration of Barcode in logistical processes is available in English and German language through the following contacts:*

**BVD**

*Bundes-Verband Dentalhandel e. V.  
Salierring 44  
50677 Köln  
Tel: +49(0)22 1/2409342, Fax: +49(0)22 1/2408670*

**VDDI**

*Association of German Dental Manufacturers  
Postbox 400663  
D-50836 Köln  
Tel: +49(0)22 1/948628-0, Fax: +49(0)22 1/483428*

**FIDE**

*Fédération de l'Industrie Dentaire en Europe  
Post Box 400663  
D-50836 Köln  
Tel: +49(0)22 1/94862835, Fax: +49(0)22 1/483428*

**EHIBCC**

*European Health Industry Business Communication Council  
Jozef Israelslaan 3  
NL-2596 The Hague  
Tel: +31 70 3244754, Fax: +31 70 3242522*

**HIBC-D**

*Kösenerstraße 85  
D-06618 Naumburg  
Tel: +49(0)3445 78114 0, Fax: +49 (0)3445 770 161  
E-Mail: oehmail@t-online.de*

*Responsible for the content: VDDI AK HIBC, Köln, issue 1-e, January 1997*

