

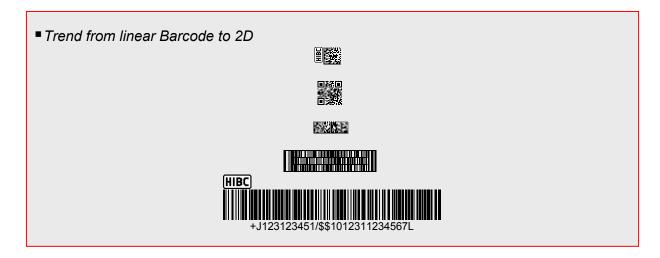
# Health Industry Barcode



# for unique identification of Medical products

Short form specification

- Unique data structure for short to long alpha numeric product codes
- Symbologies for marking large to smallest products
- ISO conforming specification
- Interoperability with any other coding system
- Suitable for any ISO Bar Code, 2d-Code and RFID



## **Health Care Barcode (HIBC)**

HIBC identifies products uniquely where ever in the world.

HIBC is a compressed data structure for unique marking Health Care products. HIBC was invented 1986 offering an increased level of security that is not surpassed today for full filling the requirements of tracking and tracing. HIBC is recommended for worldwide application jointly with the alternative codes ASC and GS1 supported by the standard ISO 22742 for labeling product packages. The HIBC data structure is technology independent useful for any ISO AIDC symbology and RFID.

The Emblem [HIBC] attached to the code shows: Scan HIBC here!

Note: ISO powered RFID see separate specification





# Health Care Barcode | HIBC

➤ HIBC for more than 2 to 5 digit (to 18) and alpha numeric product codes.

Where GS1 kept the limited numeric code capacity in the range of 3 to 5 digits, HIBC is maintaining the extended capacity for variable number sets, which amounts 1 to 18 characters for the pure product code. Therefore HIBC is recommended for all Medical products of variable length and alpha numeric character set's.

#### Automatic recognition

The system identifier (SI) for the HIBC structure is "+" and for GS1 the "FNC1". Both SIs are positioned prior to the data, guaranteeing interoperability between HIBC and GS1 according to ISO/IEC 15418 within the same system.

### The structure of the Health Care Barcode (HIBC)

HIBC consists of the Company ID, packaging index and product number. The traceability data are located in the secondary code: Expiry date, Lot/Serial number and optional quantity (see table 1). The HIBC data structure is designed to be carried by Barcode, 2D and RFID.

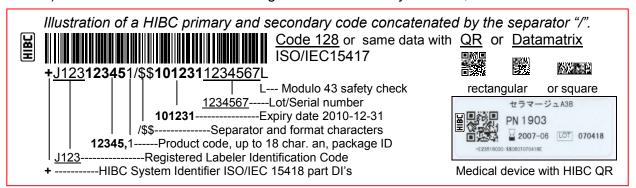


Table 1) Secondary code stores traceability data in different formats (excerpt of HIBC spec. chapter 10.4)

Table 1) Coordary code elerco traceability data in different formate (except of files speci chapter 10:4)										
	HIBC	Quantity	Qty.	Exp. date	Expiry	LOT	LINK	Mod43	sample secondary code with "Link"character	
#	Flag	flag	format	flag	format	field	Char.	Check	L" (last character of Primary code)	
				_				Char.		
1	+				YYJJJ	LOT	L	С	+952713C001LG	
2	+\$					LOT	٦	С	+\$3C001LV	
3	+\$\$				MMYY	LOT	L	С	+\$\$09953C001 <i>L</i> 7	
4	+\$\$			2	MMDDYY	LOT	L	С	+\$\$20928953C001 <i>L</i> J	
5	+\$\$			3	YYMMDD	LOT	L	С	+\$\$39509283C001 <i>L</i> K	
6	+\$\$			4	YYMMDDHH	LOT	L	С	+\$\$4950928223C001 <i>L</i> P	
7	+\$\$			5	YYJJJ	LOT	L	С	+\$\$5952713C001LD	
8	+\$\$			6	YYJJJHH	LOT	L	С	+\$\$695271223C001 <i>L</i> I	
9	+\$\$			7		LOT	L	С	+\$\$73C001LY	
10	+\$\$	8	QQ		MMYY	LOT	L	С	+\$\$82409953C001 <i>L</i> L	
11	+\$\$	8	QQ	2	MMDDYY	LOT	L	С	+\$\$82420928953C001LX	
12	+\$\$	8	QQ	3	YYMMDD	LOT	L	С	+\$\$82439509283C001LY	
13	+\$\$	8	QQ	4	YYMMDDHH	LOT	٦	С	+\$\$8244950928223C001 <i>L</i> S	
14	+\$\$	8	QQ	5	YYJJJ	LOT	٦	С	+\$\$8245952713C001 <i>L</i> R	
15	+\$\$	8	QQ	6	YYJJJHH	LOT	L	С	+\$\$824695271223C001 <i>L</i> W	
16	+\$\$	8	QQ	7		LOT	L	С	+\$\$82473C001L5	
17	+\$\$	8	QQ				٦	С	+\$\$824 <i>L</i> P	
18	+\$\$	9	QQQQQ		MMYY	LOT	٦	С	+\$\$90010009953C001 <i>L</i> H	
19	+\$\$	9	QQQQQ	2-7	Date formates row 19-25 like row 11-17					
26	+\$+					S/N	L	С	+\$+0001LC	
27	+\$\$+				MMYY	S/N	L	С	+\$\$+09050001LC	
28	+\$\$+			2	MMDDYY	S/N	L	С	+\$\$+20928050001LC	
29	+\$\$+			3	YYMMDD	S/N	L	С	etc.	
30	+\$\$+			4	YYMMDDHH	S/N	L	С		
31	+\$\$+			5	AAJJJ	S/N	L	С		
32	+\$\$+			6	YYJJJHH	S/N	L	С		
33	+\$\$+			7		S/N	L	С		

Note: The complete HIBC Guidelines you will find under www.HIBC.de



### Medical products - Examples marked uniquely by Health Industry Barcode (HIBC)





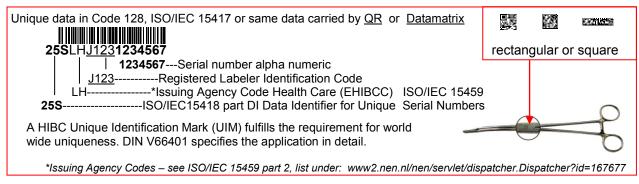


HIBC carried by stacked Code 128

Reduced Space HIBC for smallest

The following schematic illustrates the data s other industries for Direct Product Marking (I

(Instruments, Vials, etc.)
ation Mark (UIM) solution shared with
t. Precision Mechanics. etc.



#### **Appendix**: One standard, one solution – different numbers, thanks to ISO TC 122

In Health Care different data structures are in use for automatic data capture (ADC) and documentation. For product marking 3 major data structures are common on a worldwide bases, the EAN structure, coming from consumers area, HIBC developed for Health Care and ASC of the industries. All 3 are considered with the ISO standard "Product Packaging – linear and two dimensional symbols for product packaging - ISO 22742". This standard was published by all National Standards Institutions connected to ISO TC 122 Packaging. The purpose of this standard is to achieve an optimum of efficiency by public available specifications and to avoid re-labeling and limitations for traceability data. The chart below shall illustrate common features and differences.

Table 2) Common features, differences between key structures of ISO 22742 EAN, HIBC, ASC

Table 2) Common realures, differences between key structures of 150 22742 EAN, HIBC, ASC										
Feature		EAN(GS1)	HIBC	ASC						
Capacity for product nur	mbers.	5 digit (average)	1 to 18 char., an	1 to 20 char., an						
System identifiers for		FNC1	+	Syntax 15434						
Interoperable		YES	YES	YES						
ISO 22742 for product p	ackages	YES	YES	YES						
ISO/IEC 15417 Code 12	28	YES	YES	YES						
2D Code		RSS, Composite	any ISO symbol	any ISO symbol						
RFID		YES	YES	YES						
ISO/IEC 18004 QR Cod	le JIS X0510	NO	YES	YES						
ISO/IEC 15418 Applicat	ion Data Identifiers	YES	YES	YES						
ISO 22742 Product labe	eling	YES	YES	YES						
Capacity for world wide	tracing	YES	YES	YES						
For consumers area (PC	OS)	YES	NO	NO						
For world wide tracing m	nedical products	YES	YES	Instruments						
Sample Code 128 with same data content	EAN 0111234567123452101	23456717101231	HIBC +J123123451/\$	\$1012311234567L						
Sample 2D	RSS Composite A	RSS Composite E	QR D/	ATAMATRIX						
printed same resolution, dot size 0,25mm			H B 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	HIBC						

The Emblem will be positioned to a HIBC horizontal or vertical for highlighting: Scan HIBC here!

| HIBC | Download of the emblem graphics see www.hibc.de