

## Product marking

Units, systems, software, consumables





## Products require labeling

Labeling gives identities. It enables smart industrial processes. Tracing components is ensured in the automotive sector to the smallest screw. Scheduled deliveries are guaranteed in logistics. Plates on electrical devices refer to performance data and use. In the pharmaceutical industry, labeling prevents from errors relevant to health. In chemical business, risks associated with the handling of a product are indicated multi-colored and without any barrier as regards language. Labeling on food informs about ingredients and on textiles about best possible care.

### PERFECT SOLUTIONS FOR ANY REQUIREMENT

cab for more than 45 years has been developing and manufacturing solutions and a wide range of accessories for marking tasks. Products include label printers, systems for printing and applying labels in one operation, label dispensers and laser marking systems. In addition, ribbons and labels are provided.



### EASE OF OPERATION

All the current cab printing systems are based on the same electronics and firmware. The printer language is the same, so are interfaces and memories. Any update of an operating system or a driver is available immediately on every device.

Customers worldwide rely on cab solutions, in many cases for 20 or more years.



## Technologies for smart processes

Smart systems and components to handle workflows with embedded processors, sensors and network technology: cab has been pursuing this concept for many years. The current label printing systems can operate in automation and robot solutions. Interfaces and Industry 4.0 protocols enable integration to a network. The firmware integrates an OPC UA server for data exchange. To control or regulate a printing system, the server can be used, for example, in a PLC.





# Innovation build together

## MADE IN GERMANY

cab is an owner-managed family business, with a focus on customers and economic continuity have always been a focus.

Vision, ideas, curiosity and joy in cab products and their further development have always been driving forces in the company.

cab has a global presence, with subsidiaries locating in Germany, France, North and Central America, Asia and South Africa. In addition, there are about 820 distribution and service partners. Joint efforts result in equipment, spare parts and manpower being highly available all over the world.

## CORPORATE FACTS AND FIGURES

- Founded in 1975
- Located in eight countries
- 115 million Euros group turnover in fiscal year 2023
- A leader in automated and highly precise label applications
- Major European manufacturer of label printing systems



See further information on  
[www.cab.de/en](http://www.cab.de/en)





**KLAUS BARDUTZKY**  
Company founder

**ALEXANDER BARDUTZKY**  
Managing Director







# MACH 4S label printers



Labels and ribbons can be inserted to **MACH 4S** easily from the front.

■ standard

A MACH 4S provides all the features known of industrial printers operating in a wide range of application. The print mechanics and chassis are made of high-quality materials and match perfectly in design and function.

Self-explanatory icons on a large color touch panel provide excellent usability. Label webs are guided centered on a unit, eliminating any need for adjustment. The main board is hightech and all the interfaces required for plugging are provided as standard.

Label printer		MACH 4S		
Print head	Print method	Thermal transfer, direct thermal		
	Print resolution dpi	203	300	600
	Print speed mm/s max.	300	300	150
	Print width mm max.	104	108.4	105.7
Label	Roll, reel, fanfold	up to 205 / 38.1 - 76		
	Roll / core diameters mm			
	Width mm	5 - 116		
	Height, no backfeed mm at least	5		
Ribbon	Height if peeling off or individual cutting	12		
	Color layer	outside or inside		
	Length m max.	360		
Dimensions of a unit	Width x Height x Depth mm	240 x 317 x 435		
	Height when cover is open mm	596		
	Weight kg	6		
Interfaces	RS232-C	■		
	USB for PC	■		
	Ethernet	■		
	Periphery	■		
	USB host	■		



See further information on  
[www.cab.de/en/mach4s](http://www.cab.de/en/mach4s)

## Types



Tear-off mode



Peel-off mode



Cutter mode

## Accessory



External rewinders







**SQUIX 6** - wide ones for printing Odette, UCC, GS1 labels



**SQUIX 8** for printing pallet and drum labels

■ standard □ option

Label printer		SQUIX 6		SQUIX 8
Print head	Print method	Thermal transfer, direct thermal		
	Print resolution dpi	203	300	300
	Print speed mm/s max.	250		150
	Print width mm max.	168	162.6	216
Label	Roll, fanfold			
	Roll / core diameters mm	max. 205 / 38.1 - 76		
	Width mm	46 - 176		46 - 220
	Height, no backfeed mm at least	6		25
Ribbon	Color layer	outside or inside		
	Length m max.	600		
Dimensions of a unit	Width x Height x Depth mm	312 x 288 x 460		352 x 288 x 460
	Weight kg	14		15
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■		
	Digital I/O interface	□		



See further information on  
[www.cab.de/en/squix](http://www.cab.de/en/squix)

## Accessories



Barcode scanners



Demand modules for marking packages in motion



Applicators

# SQUIX label printers guiding materials in centered position



**SQUIX 4 M**, the precise and flexible ones

**SQUIX 4 MT** for textile operations

With a **SQUIX 4 M**, all materials that are wound on rolls or reels can be printed, so can fanfold ones. Very small labels or slim continuous materials such as pressed tubes are typical applications. A specified label sensor allows round or oval tubes as high as 5 mm be processed.

If operations require high heating, ribbons may stick with the textile tape after printing. On a **SQUIX 4 MT**, a draw roller separates a ribbon reliably from a material. Labels and continuous materials wound on rolls or reels may be as well printed. There is no need of aligning plungers to set the width of a label. Adapted print rollers are provided for slim materials.

All SQUIX models are available as basic devices with a tear-off plate, as well as peel-off devices, providing a rewinder internally.

		■ standard			□ option	
Label printer		SQUIX 4 M			SQUIX 4 MT	
Print head	Thermal transfer	■				
	Direct thermal	■	■	-	■	-
	Print resolution dpi	203	300	600	300	600
	Print speed mm/s max.	300	300	150	300	150
	Print width mm max.	104	108.4	105.7	108.4	105.7
Label	Roll, reel, fanfold					
	Roll / core diameters mm	max. 205 / 38.1 - 76				
	Width mm	4 - 110			4 - 110	
	Height, no backfeed mm at least	3			4	
Ribbon	Color layer	outside or inside				
	Length m max.	600			600	
Dimensions of a unit	Width x Height x Depth mm	252 x 288 x 460			252 x 288 x 460	
	Weight kg	10			10	
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■			■	
	Digital I/O interface	□				



See further information on [www.cab.de/en/squix](http://www.cab.de/en/squix)

## Accessories



**AXON 2** applicator for labeling tubes or vials

**WICON** applicator for wrapping labels around cylindric items

# SQUIX UHF RFID label printers



**SQUIX 4 M** providing integral **UHF RFID** options

There are three UHF RFID modules to select from. Each has been optimized for a specific class of RFID labels: standard RFID tags, on metal RFID tags and mini RFID tags

Modules are assembled inside a chassis, antennas directly to a print head or a feeding unit. Data of RFID tags are read or written just before the printing of a label.

## Read / write antennas

On a print head

- 1. OM – On Metal** preferred if labels are applied onto metal surfaces

On a feeding unit

- 2. RS – Regular Sensitivity** is a standard with all common RFID labels

- 3. HS – High Sensitivity** if RFID labels have specific radiation characteristics

On a print head and on a feeding unit

- 4. OM and RS** – Each antenna can read /write labels one by one.

■ standard □ option

RFID label printer		SQUIX 4			SQUIX 6		SQUIX 8	SQUIX 4 M			SQUIX 4 MT	
Guidance of materials		aligned to the left						centered				
Print method	Thermal transfer	■	■	■	■	■	■	■	■	■	■	■
	Direct thermal	■	■	–	■	■	■	■	■	–	■	–
Print resolution	dpi	203	300	600	203	300	300	203	300	600	300	600
Print speed	mm/s max.	300	300	150	250	250	150	300	300	150	300	150
Print width	mm max.	104	108.4	105.7	168	162.6	216	104	108.4	105.7	108.4	105.7
UHF RFID modules												
UHF RFID OM 4 module		□	□	□	–	–	–	□	□	□	–	–
UHF RFID RS 4 module		□	□	□	–	–	–	□	□	□	□	□
UHF RFID HS 4 module		□	□	□	–	–	–	□	□	□	□	□
UHF RFID OM / RS 4 module		□	□	□	–	–	–	□	□	□	□	□
UHF RFID RS 6 module		–	–	–	□	□	–	–	–	–	–	–
UHF RFID HS 6 module		–	–	–	□	□	–	–	–	–	–	–
UHF RFID RS 8 module		–	–	–	–	–	□	–	–	–	–	–



See further information on  
[www.cab.de/en/squix-rfid](http://www.cab.de/en/squix-rfid)

## Accessories



Cutters and perforation cutters



Stackers providing a cutter



Applicators



## XD Q label printers



**XD Q** for printing on both sides of textiles, shrink tubes and other continuous materials

300 dpi if printing as wide as 105.7 mm,  
600 dpi if printing no more than 54.1 mm  
wide, using a special print roller

Heating can be assigned separately  
to each print head.

Printing is as well possible only  
on the top of a material.

Automated ribbon saving is provided  
on print head 1 when printing only  
on the bottom of a material.  
While the material is fed, the print head  
is lifted and the ribbon is stopped.

A separator is an integral part of the  
chassis. It reliably separates a ribbon  
from a material and improves  
the accuracy of feeding.

■ standard □ option

Label printer		XD Q4/300	XD Q4.2/600
Print head	Print method	Thermal transfer	
	Print resolution dpi	300	600
	Print speed mm/s max.	150	100
	Print width mm max.	105.7	54.1
Label	Outside roll diameter mm max.	300	
	Width mm	10 - 110	
	Height mm at least	20	
Ribbon	Color layer	outside or inside	
	Length m max	450	
Dimensions of a unit	Width x Height x Depth mm	248 x 395 x 594	
	Weight kg	21	
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■	
	Digital I/O interface	□	



See further information on  
[www.cab.de/en/xdq](http://www.cab.de/en/xdq)

## Accessories



CSQ cutters



PSQ perforation cutters



Stackers providing a cutter

# XC Q label printers



XC Q for printing with two colors

150 mm/s maximum print speed;  
print resolution are 300 dpi

Heating can be assigned separately  
to each print head.

Printing is as well possible only  
with print head 2;  
print head 1 can be deactivated by menu

Print images remain continuous when  
cutting or perforating at no backfeed.

Multiple print jobs can be printed seamless  
and without loss of labels.

■ standard    □ option

Label printer		XC Q4	XC Q6
Print head	Print method	Thermal transfer	
	Print resolution                      dpi	300	
	Print speed                      mm/s max.	150	
	Print width                      mm max.	105.7	162.6
Label	Outside roll diameter    mm max.	300	
	Width                      mm	20 - 116	46 - 176
	Height                      mm at least	10	
Ribbon	Color layer	outside or inside	
	Length                      m max.	450	
Dimensions of a unit	Width x Height x Depth    mm	248 x 395 x 554	358 x 395 x 554
	Weight                      kg	22	24
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■	
	Digital I/O interface	□	



See further information on  
[www.cab.de/en/xcq](http://www.cab.de/en/xcq)



## Accessories



CSQ cutters



CU cutters (XC Q6 only)

# MACH1, MACH2 label printers



MACH1 providing control buttons and LED



MACH2 providing a color LCD display and a navigator pad

The MACH1, MACH2 add to the cab printer portfolio in the lower price segment:

- Reliable 4“desktop printers in proven technology
- For small to medium print volumes

Accessories such as a cutter, a peel-off device and an external unwinder allow the compact printers be operated in universal matters at low maintenance.

■ standard

Label printer			MACH1		MACH2	
Print head	Print method		Thermal transfer, direct thermal			
	Print resolution	dpi	203	300	203	300
	Print speed	mm/s max.	127	102	177	127
	Print width	mm max.	108	105.7	108	105.7
Label	Outside roll diameter	mm max.	127			
	Width	mm	25 - 112			
	Height	mm	4 - 1,727	4 - 762	4 - 1,727	4 - 762
Ribbon	Color layer		outside or inside			
	Length	m max.	300			
Dimensions of a unit	Width x Height x Depth	mm	210 x 186 x 280			
	Weight	kg	2.7		3	
Interfaces	RS232-C		■		■	
	USB for PC		■		■	
	Ethernet		■		■	
	USB host		-		■	



See further information on [www.cab.de/en/mach1-2](http://www.cab.de/en/mach1-2)



# AXON 1 tube labeling system



**AXON 1** for reliable tube and vial labeling

Tubes and vials with or without a closure cap can be inserted by hand or automated by a handling system.

Once tubes or vials have been inserted to the retainer, they can be filled and sealed.

Labeling takes less than two seconds.

Options: warning on a label web ending, barcode verification

■ standard    □ option

Tube labeling system		AXON 1
Print head	Print method	Thermal transfer, direct thermal
	Print resolution                      dpi	300 / 600
	Print speed                      mm/s max.	100
	Print width                      mm max.	56.9
Tube, vial	Orientation at the time a label is being labeled	vertical
	Diameter                      mm	7 - 26, 16 - 38 if options are provided
	Length, closure cap included      mm	20 - 130
	Conicity (change of diameter) % max.	0.8
Label	Outside roll diameter      mm max.	205
	Width                      mm	5 - 56
	Height                      mm at least	12
Ribbon	Color layer	outside or inside
	Length                      m max.	600
Dimensions of a unit	Width x Height x Depth      mm	270 x 195 x 560
	Weight                      kg approx.	12
Interfaces	RS232-C	■
	USB for PC	■
	Ethernet	■
	USB host	■
	Digital I/O interface	□



See further information on [www.cab.de/en/axon1](http://www.cab.de/en/axon1)

## Tubes

## Vials



# HERMES Q print and apply systems



HERMES Q for printing and applying labels automatically in manufacture plants

Three printer types for small labels, a wide range of accessories or Odette, UCC and GS1 labels in logistics operation

Labels are rolled, blown or tamped on products or packaging by various applicators.

All the units can be rotated vertically by at most 360° or operated in horizontal orientation.

■ standard    □ option

Print and apply system		HERMES Q2		HERMES Q4		HERMES Q6			
Print head	Thermal transfer	■		■		■			
	Direct thermal	-	-	■	-	■			
	Print resolution	dpi	300	600	203	300	600	203	300
	Print speed	mm/s max.	300	150	300		150	250	
	Print width	mm max.	59.6	54.1	104	108.4	105.7	168	162.6
Label	Outside roll diameter	mm max.		205 / 305					
	Width	mm	4 - 58		10 - 114			46 - 174	
	Height	mm at least	3		4			6	
Ribbon	Color layer	outside or inside							
	Length	m max.	600						
Dimensions of a unit	Width x Height x Depth <sup>1)</sup>	mm	207 x 430 x 500		260 x 430 x 500			320 x 430 x 500	
	Weight	kg	15 / 16		16 / 17			20	
Interfaces	RS232-C	■							
	USB for PC	■							
	Ethernet / 2 port Ethernet switch	■ / □							
	USB host	■							
	Digital I/O interface	■							
	Periphery	■							
Warning light		via USB host							

<sup>1)</sup> calculated with a roll diameter 305 mm



See further information on [www.cab.de/en/hermesq](http://www.cab.de/en/hermesq)

## Types



Labels being provided to the left or to the right

A unit unwinding roll diameters as wide as 305 mm

## Applicators for labeling products with HERMES Q



3214  
**Swing applicator**



4114 / 4116  
**Stroke applicators**



4214  
**Stroke turn applicator**



4414  
**Stroke applicator**



4514  
**Swing stroke applicator**



4712  
**Flag applicator**

Labels may be applied from all sides.  
Depending on the type of applicator, the product is in motion or at rest during labeling.

## Applicators for labeling packaging with HERMES Q



3014 / 3016  
**Front side applicators**



4014 / 4016  
**Stroke applicators**



4614  
**Stroke blow applicator**



5112 / 5114 / 5116  
**Demand modules**



5314 / 5316 and 5414 / 5416  
**Vacuum belt applicators**



6114  
**Air jet box**

Labels may be applied from all sides.  
Depending on the type of pad, the packaging is in motion or at rest during labeling.



See further information on  
[www.cab.de/en/hermesq-applicators](http://www.cab.de/en/hermesq-applicators)



# Hermes C print and apply systems



**Hermes C** for printing and applying labels with two colors



**GLUTARALDEHYDE SOLUTION 50%**

23005 QTY NET 1 KG 0,88 L. BATCH: test281114

**UN 3265** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., Glutaraldehyde CAS 111-88-8

**CLASS 8**

**HAZARDOUS STATEMENTS** Very toxic to aquatic life. May cause respiratory irritation. May cause dizziness or drowsiness or breathing difficulties. Irritated. May cause an allergic skin reaction. Causes severe skin burns and eye damage. Toxic if swallowed or if inhaled. Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS** Avoid breathing dust / fume / gas / mist / vapors / spray. Wear protective gloves / protective clothing / eye protection / face protection. In case of inadequate ventilation wear respiratory protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician. If experiencing respiratory symptoms call a POISON CENTER or doctor / physician. Store in a well-ventilated place. Keep container tightly closed. Contains 1,5-pentandiol

cab Produkttechnik GmbH & Co KG · Wilhelm-Schickard-Str. 14 · 76131 Karlsruhe / Germany · Emergency number +49 721 6626-0

Hermes C has been the world’s first labeling system to print labels with two colors and apply them in one operation. It has been designed and optimized in particular for GHS applications.

All types of containers can be labeled, such as bottles, cans, barrels, buckets, cardboard boxes or pallets.



See further information on [www.cab.de/en/hermesC](http://www.cab.de/en/hermesC)

Print and apply system			Hermes C 6L
Print head	Print method		Thermal transfer
	Print resolution	dpi	300
	Print speed	mm/s max.	125
	Print width	mm max.	162.6
Label	Outside roll diameter	mm max.	205 / 305
	Width	mm	46 - 176
	Height	mm	20 - 356
Ribbon	Color layer		outside or inside
	Length	m max.	450
Dimensions of a unit	Width x Height x Depth <sup>1)</sup>	mm	320 x 550 x 630
	Weight	kg	30
Interfaces	RS232-C		■
	USB for PC		■
	Ethernet		■
	USB host		■
	Digital I/O interface		■
	Periphery		■
	Warning light		■
	E-stop		■
	ON/OFF valve of compressed air regulation unit		■

<sup>1)</sup> calculated with a roll diameter 305 mm

## Applicators

### 4126C / 4136C Stroke applicators

Depending on the type of pad, the product is in motion or at rest during labeling. Labels may be applied from all sides.



### 5326C / 5426C Vacuum belt applicators

Labeling packages or products in motion



## PX Q print modules



**PX Q4** - the universal ones for precise print images









**PX Q6** - the wide ones for printing Odette and UCC labels

Highly functional and reliable, convenient operation and no downtimes due to low maintenance - the PX Q have been designed specifically for entirely automatic printing in industrial applications.

PX Q can be integrated in any orientation and solves even complex marking tasks.

All components of the print mechanics are assembled to a cast aluminum construction resistant to torsion. Food-safe coating and stainless steel cladding add as features to the perfect shape. Installing is screw-compatible to the units of the competition.

■ standard □ option

Print module		PX Q4			PX Q6	
Print head	Print method	Thermal transfer, direct thermal				
	Print resolution dpi	203	300	600	203	300
	Print speed mm/s max.	300	300	150	250	
	Print width mm max.	104	108.4	105.7	168	162.6
Label	Width mm	10 - 116			50 - 174	
	Height, no backfeed mm at least	6			12	
Ribbon	Color layer	outside or inside				
	Length m max.	600				
Interfaces	RS232-C					
	USB for PC					
	Ethernet / 2 port Ethernet switch	 / 				
	USB host					
	Digital I/O interface					



See further information on  
[www.cab.de/en/pxq](http://www.cab.de/en/pxq)

## Types



Labels being provided to the left or to the right

## Labels, ribbons



**Labels** as standard or manufactured as required

Each product requires at least one label for identification, indication of ingredients or traceability. Dictionaries assign names to products, but only labels give them identities. cab consultants assist in the selection of materials and support consistently until the materials have been integrated in corporate processes.



See further information on  
[www.cab.de/en/labels](http://www.cab.de/en/labels)

### Reasons to select cab labels

- extensive range ex stock
- Labels may be manufactured according to customer demands from more than 400 materials.



**cab ribbons**, suitable for any application

### Reasons to select cab ribbons

Whether narrow or wide labels have to be applied, whether goods must be identified or typeplates are required - cab provides ten types of ribbons for any demand. Tailored specifically for cab printers, they provide consistently high quality.

- Wax and resin qualities, as well as wax/resin mixtures
- optimum dissipation of heat to protect a print head
- Special backcoating prevents from friction resp. electrostatic charge.



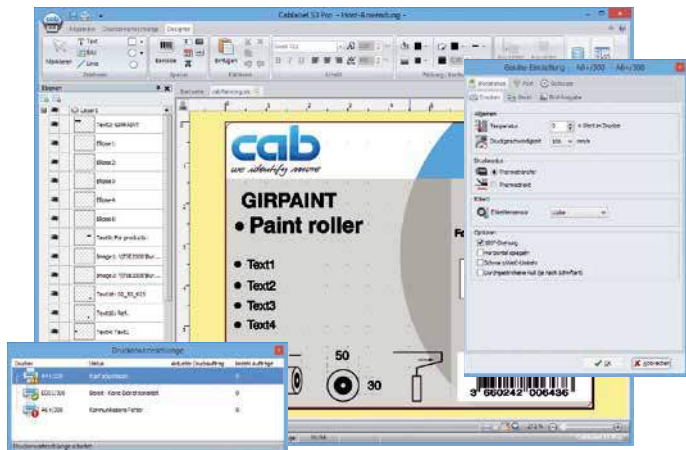
See further information on  
[www.cab.de/en/ribbons](http://www.cab.de/en/ribbons)



## cablabel S3 software

### Design, print, administrate

cablabel S3 opens up the full potential of cab devices. Defining a label is first. Modular design adapts cablabel S3 to requirements step by step. Plug-ins are embedded. Native JScript programming, for example, is supported by the JScript Viewer. The designer user interface and JScript codes synchronize in real time. Optional features can be integrated, such as the Database Connector or barcode verifiers.



See further information on  
[www.cab.de/en/cablabel](http://www.cab.de/en/cablabel)

## Stand-alone operation

This operating mode enables a printer select and print labels while not connected to a host system. Labels can be designed using software such as cablabel S3 or a text editor on a PC. Label formats, texts, graphics and data of a database can be stored on a memory card, a USB stick or a printer's IFFS memory. Only variable data are sent by a keyboard, a barcode scanner, a scale or any other host system to a printer, or be recalled by the Database Connector from a host and printed.



## Control a printer



### Drivers

cab provides drivers to control a printer with software other than cablabel S3.



Free download on [www.cab.de/en/support](http://www.cab.de/en/support)



## Programming



### JScript

cab printers embed JScript language. Download free manual on [www.cab.de/en/programming](http://www.cab.de/en/programming)



### abc Basic Compiler

Integral to the firmware, abc in addition to JScript enables advanced programming before data are edited for printout. For example, external printer languages can be replaced without intervening in a print job in progress. Data may be imported as well from other systems such as scales, barcode scanners or PLC.

## Integration



### Printer Vendor program

cab as a member of this program developed a replace method for controlling cab printers from SAP<sup>1)</sup> R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

## Administrate a printer



### Configure on the Intranet and Internet

Integral HTTP / FTP servers enable a printer be controlled or configured, firmware be updated and memory cards be administrated using standard applications such as a web browser or a FTP client. Administrators and operators on behalf of SNMP / SMTP are notified of states, alerts and errors by email or SNMP diagrams. Time and date are synchronized by a time server.



### Database Connector

Printers in a network may access data from a ODBC / OLEDB database and print it on labels. Data can be rewritten to a database while print jobs are in progress.

<sup>1)</sup> SAP and associated logos are trademarks or registered trademarks of SAP SE.

# HS, VS label dispensers



The HS and VS dispense all label sizes easily, no matter, whether they are punched, cut without a gap, square, round or transparent.

Two designs make sure that removing a label meets any individual motion sequence.

- **Horizontal dispense (HS):** Labels are peeled off at their bottom edge in upward direction from a liner, to be stuck to a product.
- **Vertical dispense (VS):** Labels are peeled off at their top edge to the front and stuck to a product by the shortest path. This suits in particular for larger labels, as the adhesive side of a label already directs to the product.

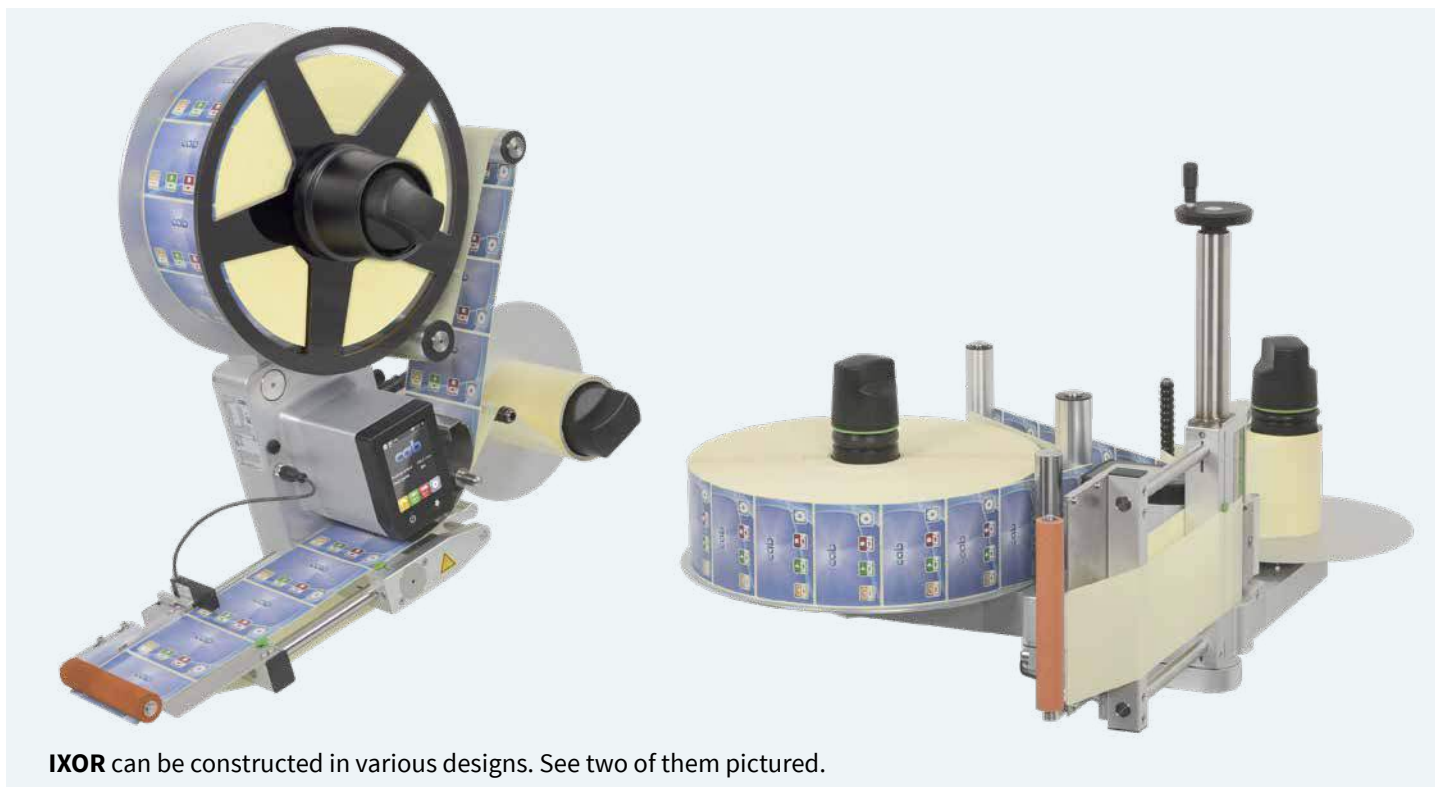
“+” models provide a control panel

Label dispenser		HS	VS	HS+, VS+
	Materials	Papers, textiles, synthetics wound on rolls, grid-punched or cut; fanfold is an option		
	Feeding rate mm/s max.	200		100 / 200
Rewinder	Liner material mm max.	155		
Label sensor	Outside diameter			
	Detection	front edge of a label		
	Distance to the locating edge mm	5 - 55		
Connectivity	Heights when pre-dispensing mm	4 - 18		
	Dispense triggered upon request by an external signal	-		
	Socket for non-heating apparatus	Power supply		
	Power switch	ON, OFF		
Type-specific specifications		HS60, VS60	HS120, VS120	HS180+, VS180+
Label	Outside roll diameter mm max.	200		
	Width <sup>1)</sup> mm	8 - 65	20 - 120	80 - 180
	Height, single-lane mm	5 - 300	8 - 600	20 - 600
	Height, multi-lane mm	5 - 110	8 - 110	20 - 110
Dimensions of a unit	Width x Height x Depth mm	180 x 250 x 360	230 x 250 x 360	300 x 250 x 360
	Weight kg	3.3	3.6	4

<sup>1)</sup> liner material included

See further information on [www.cab.de/en/hsvs](http://www.cab.de/en/hsvs)

## IXOR labeling heads



IXOR can be constructed in various designs. See two of them pictured.

IXOR is the smallest servo-driven labeling head in its performance class.

In terms of mechanics, it can be ideally integrated to entirely automated labeling plants by means of a modular construction system, or, thanks to extensive accessories, assembled to conveyors in manufacture. Preprinted labels can be applied quickly and pinpoint to products or packaging.

Base units integrate the control system. Separate control cabinets are not required. Provided are four constructional widths, each in right-hand and left-hand designs.



See further information on  
[www.cab.de/en/ixor](http://www.cab.de/en/ixor)

■ standard □ option

Labeling head		IXOR			
	Constructional width    mm/“	124 / 4.9	186 / 7.3	248 / 9.7	310 / 12.2
Performance	Web speed                    m/min max. “/min max.	25, 50, 100, 200 - depending on model 1,000, 2,000, 4,000, 8,000 - depending on model			
Label	Outside roll diameter	310 / 410 mm (12“ / 16“)			410 mm (16“)
	Width                            mm max.	120	182	244	306
Dimensions of a unit	Length                            mm	5 - 6,000			
	Width x Height                mm calculated with a roll 310 mm	600 x 600			-
	Width x Height                mm calculated with a roll 410 mm	680 x 700			925 x 825
	Depth                            mm	266	328	390	452
	Weight                            kg	14	14.5	15	32
Interfaces	Analog	■			
	Periphery	■			
	LAN	■			
	WLAN	■			
	Digital I/O interface	■			
	End of label web sensor	■			
	Start and stop sensor	■			
	Product speed synchronization	■			
	Serial	□			

## Customized configuration

Every IXOR application follows individual demands. To evaluate all your requirements and apply them to the specifications of IXOR, TAG ON has been founded as a cab spin-off. TAG ON are the contact point for all operations including a cab IXOR labeling head and its components, provide sales and technical service. [info@tag-on.de](mailto:info@tag-on.de)

# XENO 4 marking lasers



**XENO 4** consists of two components: the control system with a beam source included, and a scan head

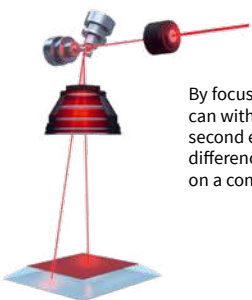
■ standard

Laser technology is economical when it comes to marking smallest components and larger workpieces precisely and permanent.

cab marking lasers are designed for a wide range of applications. It is possible to mark static products made of metal or sythetics in medical technology, aerospace, electronics or electrical engineering and the automotive industry.

The XENO 4 are pumped by diodes and cooled by air. They provide high beam quality and peak pulse power.

Marking laser			XENO 4 / 20	XENO 4 / 30	XENO 4 / 50
Beam source	cw power	W max.	20	30	50
	Pulse energy	mJ	1		
	Wave length	nm	1,064		
	Beam quality M²		<1.8		
	Pulse duration	ns	<120		
	Pulse repetition frequency	kHz	20 - 60	30 - 60	50 - 100
	Connecting cable	m	2.5		
Scan head	Assembly		horizontal / vertical		
	Speed of marking	mm/s	~5,000		
Pilot laser	Wave length	nm	650		
	cw power	mW	<1		
Laser protection class EN60825-1	Beam source		Class 4		
	Pilot laser		Class 2		
Interfaces	RS232-C		■		
	Ethernet		■		
	Digital I/O		■		
	Remote		■		
	E-stop		■		
			Rack of 4 height units, 19“		
Dimensions of a unit	Control system	mm	420 x 178 x 420		
	Width x Height x Depth				
	Weight of control system	kg	16		
	Scan head	mm	99 x 135 x 205		
	Width x Height x Depth				
	Weight of scan head	kg	3		



By focus shift, XENO 4S can within fractions of a second easily compensate differences in altitude on a component.



See further information on  
[www.cab.de/en/laser](http://www.cab.de/en/laser)



Cast part identification



Traceable sterile instruments



Medical size allocation



Aluminum typeplates



## XENO 1, XENO 3 laser marking systems



**XENO 1** is a compact desktop system. It requires small footprint, but provides a large work area. It adds to the cab laser marking portfolio in the lower price segment, without sacrificing a high industrial standard. Materials can be inserted from three sides by hand or by a handling system. Interior LED lighting enables workpiece observation when the operation door is closed.

**XENO 3** is an integral laser system for marking permanently plates made of metal or synthetics. It suits for operation in rugged environments, when markings must be clearly legible even after years. Sample fields of application are hydraulic cylinders, motors, pumps, gears, chassis and system components. A protective window and interior lighting enable marking processes being observed.

Laser marking system			XENO 1 / XENO 3	
Beam source	cw power	W max.	20	30
	Pulse repetition frequency	kHz	20 - 60	30 - 60
	Pulse energy	mJ	1	
	Wave length	nm	1,064	
	Beam quality M <sup>2</sup>		< 1.8	
	Pulse duration	ns	< 120	
Pilot laser / Focus finder	Wave length	nm	650	
	cw power	mW	< 0.4	
			XENO 1	XENO 3
Work area	Height	mm	100 / 200	-
Plate	Width x Height	mm	-	40 x 20 - 120 x 100
Z axis	Traversing speed	mm/s	20	-
	Position accuracy	mm	±0.1	-
Laser protection class EN60825-1			Class 1	
Interfaces	Work area		Rotary axis Digital I/O	-
	Back of a unit		Ethernet TCP/IP 24 V for digital I/O AF5 extraction and filter system External start External e-stop	2x Ethernet TCP/IP  AF5 extraction and filter system External start External e-stop
Dimensions of a unit	Width x Height x Depth	mm	580 x 660 x 700	420 x 480 x 480
	Weight	kg approx.	65	< 35



### cabLase Editor 5

For designing a layout, controlling and monitoring, deliveries of cab marking laser solutions include cabLase Editor 5.



See further information on  
[www.cab.de/en/cablase](http://www.cab.de/en/cablase)

## LSG+100E laser safety housings, LM+ laser label markers



**LSG+100E** laser safety housing

**LM+** laser label marker

**LSG+100E** is the industrial solution for marking series parts with the XENO 4. In addition to a large work area, rugged steel sheet construction offers space sufficient for installing a laser beam source, as well as an industrial PC in a 19" frame.

Labels of different sizes, made of laser-markable film, can be precisely marked directly from a roll with a **LM+**. They can be cut without the need of additional tools, be separated by a cutter or rewound by an external device after marking.

■ standard

Laser safety housing		LSG+100E 230 V	LSG+100E 120 V
	Work area mm	980 x 460 x 980	
	Width x Height x Depth		
	Traversing speed mm/s max.	60	
	Position accuracy mm	0.02	
Dimensions of a unit	Width x Height x Depth mm	1,000 x 2,280 x 1,120	
	Weight kg	395	
Interfaces	Digital I/O XENO 4	■	
	Remote XENO 4	■	
	E-stop XENO 4	■	
	Stepper motor Z, X, rotary axes	■	
	Extraction and filter system	■	
Laser label marker		LM+160.2	LM+254.2
	Work area mm	160 x 5 x 190	
	Width x Height x Depth		
	Traversing speed mm/s	200	
	Position accuracy mm	0.2	
Label	Outside roll diameter mm max.	300	
	Roll winding	outside (inside upon request)	
	Width mm	25 - 120	
	Height mm max.	180	
Dimensions of a unit	Width x Height x Depth mm	440 x 520 x 802	
	Weight kg	22	
Interfaces	RS232-C XENO 4 CON5	■	
	E-stop XENO 4	■	
	External e-stop	■	
	Cutter	■	



See further information on  
[www.cab.de/en/laser](http://www.cab.de/en/laser)

# At home in any industry

A quarter of a million cab units and systems are in continuous operation all over the world. They are in use in the automotive, chemical, pharmaceutical and textile industries, in electronics and medtech businesses, transport and logistics, as well as in retail and wholesale trading and in services.



## Operations

Informational labels, warning labels, inventory, product labels, logging, labels for certification or testing, patient admission, pricing, storage, shelf marking, address labels, shipping labels, incoming goods, tickets, typeplates, warranty labels, cable marking, tube marking, barrel labels, encoding, container labels, spare parts marking resp. identification

## Customers

cab units are operated by global players as well as by small and medium-sized companies.



“We set milestones in the development and manufacturing of units and systems for product marking.”

*Roman Schnider*  
Head of Software Development

Germany

**cab Produkttechnik GmbH & Co KG**

Karlsruhe

Phone +49 721 6626 0

[www.cab.de](http://www.cab.de)

USA

**cab Technology, Inc.**

Chelmsford, MA

Phone +1 978 250 8321

[www.cab.de/us](http://www.cab.de/us)

Taiwan

**cab Technology Co., Ltd.**

Taipei

Phone +886 (02) 8227 3966

[www.cab.de/tw](http://www.cab.de/tw)

Singapore

**cab Singapore Pte. Ltd.**

Singapore

Phone +65 6931 9099

[www.cab.de/en](http://www.cab.de/en)

France

**cab Technologies S.à.r.l.**

Niedermorschwihr

Phone +33 388 722501

[www.cab.de/fr](http://www.cab.de/fr)

Mexico

**cab Technology, Inc.**

Juárez

Phone +52 656 682 4301

[www.cab.de/es](http://www.cab.de/es)

China

**cab (Shanghai) Trading Co., Ltd.**

Shanghai

Phone +86 (021) 6236 3161

[www.cab.de/cn](http://www.cab.de/cn)

South Africa

**cab Technology (Pty) Ltd.**

Randburg

Phone +27 11 886 3580

[www.cab.de/za](http://www.cab.de/za)

**cab // 820** distribution and service partners in more than **80** countries