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cab devices and systems

Products need labeling

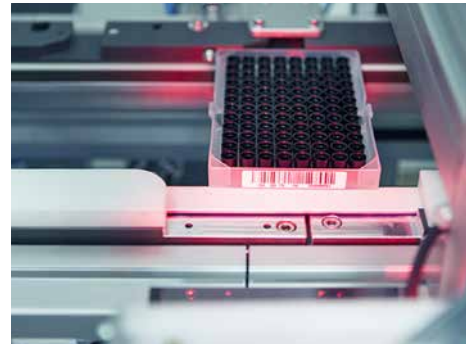


For any requirement a proper solution

Since more than 45 years cab develops and manufactures solutions and a large amount of accessories for product marking. The product range includes label printers, print & apply systems, label dispensers and marking laser systems. In addition, cab provides ribbons and labels for the perfect imprint.

PRODUCTS NEED LABELING

In the automotive sector, labeling ensures traceability of components to the smallest screw. In logistics, it guarantees scheduled delivery. On electrical devices, typeplates refer to performance data and use. Pharmacy sees labeling prevent from errors relevant to health, in chemistry it points out to risks associated with the handling of a product - multi-colored and without any barrier as regards language. On food, labeling informs about ingredients and on textiles about its best possible care.



FOR THE CUSTOMER'S BENEFIT

When it comes to using the devices, cab customers expect both a long service life and 100 per cent availability. All the printing and labeling processes have to be precise and reliable. Intuitive operability is a further criterion especially with alternating staff. On this basis, cab continuously develops ideas and assigns new technologies to real applications.

88 per cent of all the customers steadily rely on cab solutions - many of them for 20 or more years.

Long before Advanced Manufacturing and the Internet of Things became evident, cab devices did far more than just printing on a label. The products' architecture has always been designed according to easy operation, integration in automated production lines as well as reliability. The interfaces and protocols of cab's current printer generation enable bi-directional interaction with master networks, production planning or PLC.

Shaping innovation together

MADE IN GERMANY

As an owner-operated family company cab offers customer focus and economic continuity.

Foresight, ideas, added by curiosity and joy in its own products and their further development have always been driving forces in the company.

Local subsidiaries in Germany, France, America, South Africa and Asia form the basis to meet the individual markets in the best possible way.

cab headquarters in Karlsruhe, Germany:
Product Development and Engineering,
International Sales, Marketing, Administration

COMPANY FACTS AND FIGURES

- founded 1975
- Sites in eight countries
- 100 million Euros group turnover in fiscal year 2021
- Industry leader in automated and high-precision labeling
- Europe's major manufacturer of label printing systems



For further information see
www.cab.de/en





KLAUS BARDUTZKY

Managing Director and company founder

ALEXANDER BARDUTZKY

2nd generation Managing Director



Get an overview!

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Design and technical specifications correspond to the date of the printing. Subject to change.

The data provided in the catalog do not represent any warranty or guarantee.

For current data see website www.cab.de/en

Label printers **MACH1, MACH2**



MACH1 with control buttons and LED signal

MACH2 with colored LCD display and navigator pad

4“ desktop printers in proven technology

With the MACH1 and MACH2 cab completes its printer range in the lower price segment.

The devices ideally fit with small to medium duty applications in thermal transfer and direct thermal printing.

MACH1 is provided with control buttons and a LED signal, while MACH2 has a colored LCD display and a navigator pad.

■ Standard

Label printer		MACH1		MACH2	
Print head	Printing method	Thermal transfer, thermal direct			
	Printable resolution dpi	203	300	203	300
	Print speed up to mm/s	127	102	177	127
	Print width up to mm	108	105.7	108	105.7
Labels	Roll outside diameter up to mm	127			
	Width mm	25 - 112			
	Height mm	4 - 1,727	4 - 762	4 - 1,727	4 - 762
Ribbon	Coating	outside or inside			
	Length up to m	300			
Printer sizes and weights	Width x Height x Depth mm	210 x 186 x 280			
	Weight kg	2.7		3	
Electronics	Data memory MB	16			
	Main memory SDRAM MB	8			
Interfaces	RS232-C	■		■	
	USB for PC	■		■	
	Ethernet	■		■	
	USB host	-		■	

The device can be opened up widely to insert the ribbon and the label roll.



For further information see
www.cab.de/en/mach1-2

Label printers EOS2, EOS5



EOS2 for label rolls up to diameter 152 mm

EOS5 for label rolls up to diameter 203 mm

Compact printers providing many features of large industrial printers

The EOS combine all the functions of a solid label printer with highest ease of operation.

EOS2 is the compact one requiring little space, EOS5 processes label rolls up to diameter 203 mm.

■ Standard □ Option

Label printer		EOS2		EOS5	
Print head	Printing method	Thermal transfer, thermal direct			
	Printable resolution dpi	203	300	203	300
	Print speed up to mm/s	150			
	Print width up to mm	108	105.7	108	105.7
Labels	Roll, reel	■		■	
	Fanfold	□		□	
	Roll diameter / core diameter mm	up to 152 / 38,1 - 76		up to 203 / 38,1 - 76	
	Width mm	single lane 10 - 116, multi lane 5 - 116			
	Height from mm without label backfeed	5			
Ribbon	Coating	outside or inside			
	Length up to m	360			
Printer sizes and weights	Width x Height x Depth mm	253 x 191 x 322		264 x 247 x 412	
	Weight kg	4		5	
Electronics	Processor clock rate MHz	800			
	Data memory MB	50			
	Main memory RAM MB	256			
Interfaces	RS232-C	■			
	USB for PC	■			
	Ethernet	■			
	Periphery	■			
	USB host	■			

The EOS mobile can be supplied for example with the battery pack provided by cab - wherever labels are needed but no socket for power connection is available.



For further information see www.cab.de/en/eos

Label printer **MACH 4S**



MACH 4S to insert consumables from the front

Industrial printers to insert consumables from the front

MACH 4S printers provide all features of an industrial printer with a wide application range. Labels and ribbons are easy to insert from the front.

The large, colored touchdisplay with self-explanatory symbols offers best operability. The centered material guide eliminates any need of adjustments.

■ Standard

Label printer		MACH 4S		
Print head	Printing method	Thermal transfer, thermal direct		
	Printable resolution dpi	203	300	600
	Print speed up to mm/s	300	300	150
	Print width up to mm	104	108.4	105.7
Labels	Roll, reel, fanfold			
	Roll diameter / core diameter mm	up to 205 / 38,1 - 76		
	Width mm	5 - 116		
	Height without label backfeed from mm	5		
Ribbon	Height peel-off, single cut	12		
	Coating	outside or inside		
	Length up to m	360		
Printer sizes and weights	Width x Height x Depth mm	240 x 317 x 435		
	Height when cover is open mm	596		
	Weight kg	6		
Electronics	Processor clock rate MHz	800		
	Data memory MB	50		
	Main memory RAM MB	256		
Interfaces	RS232-C	■		
	USB for PC	■		
	Ethernet	■		
	Periphery	■		
	USB host	■		



For further information see
www.cab.de/en/mach4s

Label printers SQUIX 2, SQUIX 4, SQUIX 6



SQUIX label printers with left-aligned material guide

Flexible printers for industrial applications

Whether operated stand-alone, linked to a PC or in a network – the rugged printers are always up to the mark. A large number of peripherals and software enable customer-specific solutions.

Basic devices providing a tear-off plate:

They print on labels or on continuous materials wound on rolls or fanfold. Materials are torn off on a jagged plate. Cutting is an option, so is external rewinding.

Peel-off devices providing a rewinder internally:

Peeling off labels is a feature added to a basic version. Labels are separated from the liner after printing to be removed by hand or by an applicator.

■ Standard □ Option

Label printer		SQUIX 2		SQUIX 4			SQUIX 6	
Print head	Thermal transfer	■						
	Thermal direct	□	-	■	■	-	■	
	Printable resolution dpi	300	600	203	300	600	203	300
	Print speed up to mm/s	250	150	300	300	150	250	
	Print width up to mm	56.9		104	108.4	105.7	168	162.6
Labels	Roll, fanfold							
	Roll diameter / core diameter mm	up to 205 / 38,1 - 76						
	Width mm	4 - 63		20 - 116			46 - 176	
	Height from mm without label backfeed	4		4			6	
Ribbon	Coating	outside or inside						
	Length up to m	600						
Printer sizes and weights	Width x Height x Depth mm	200 x 288 x 460		252 x 288 x 460			312 x 288 x 460	
	Weight kg	9		10			14	
Electronics	Processor clock rate MHz	800						
	Data memory MB	50						
	Main memory RAM MB	256						
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■						
	Digital I/O interface	□						



For further information see
www.cab.de/en/squix



Customized handling

Labels can either be cut or perforated. Various peel-off adapters enable either automatic or manual dispensing. The labels can also be rewound for further processing.

For operation in production lines various applicators are provided that allow semi-automatic printing and applying.

Reliability

Due to comprehensive peripheral equipment the printers fully tackle any task, allowing to demonstrate their reliability in continuous operation in any working environment.



Tester for linear and 2D barcodes



Cutter and cutter tray



Internal rewinder



External rewinder



Applicators to be integrated in production lines



Demand module for packaging in motion

Label printers **SQUIX 4 M, SQUIX 4 MT, SQUIX UHF RFID**



SQUIX label printers with centered material guide

M series - precise and versatile

to print on all materials wound on rolls or reels or fanfold, in particular very small labels or slim continuous materials such as pressed shrink tubes.

MT series to print textile applications

In applications requiring high heat energies, a ribbon may stick with the textile tape after printing. A draw roller reliably separates the ribbon from the material.

Valid for both printer series:

Plungers remain fixed with all widths of material. There is no need of adjustment on the print head. Adapted print rollers are provided for slim materials

■ Standard □ Option

Label printer		SQUIX 4 M			SQUIX 4 MT	
Print head	Thermal transfer					
	Thermal direct			-		-
	Printable resolution dpi	203	300	600	300	600
	Print speed up to mm/s	300	300	150	300	150
	Print width up to mm	104	108.4	105.7	108.4	105.7
Labels	Roll, reel, fanfold					
	Roll diameter / core diameter mm	up to 205 / 38.1 - 76				
	Width mm	4 - 110			4 - 110	
	Height from mm without label backfeed	3			4	
Ribbon	Coating	outside or inside				
	Length up to m	600			600	
Printer sizes and weights	Width x Height x Depth mm	252 x 288 x 460			252 x 288 x 460	
	Weight kg	10			10	
Electronics	Processor clock rate MHz	800			800	
	Data memory MB	50			50	
	Main memory RAM MB	256			256	
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN					
	Digital I/O interface					



SQUIX 4 M with a stacker and cutter



For further information see
www.cab.de/en/squix



SQUIX UHF RFID to print and write on Smart Labels.

SQUIX label printers integrating UHF RFID options provide highest industrial reliability in processes related to printing and writing on RFID labels.

Three UHF RFID modules are options. Each of them are optimized for a specific class of RFID labels: common RFID tags, on-metal RFID tags, mini RFID tags

UHF RFID module on SQUIX	Dual module		High sensitivity module	
	Standard module	On-metal module		
RFID				
Standard	UHF EPC Class 1 Gen 2			
Interface specification	ISO/IEC 18000-63			
Frequency scope	ETSI & FCC	ETSI & FCC	ETSI	FCC*
Input interface	JScript			
Features	calibration, invalid labels be identified, proof printing, memory banks be locked			
Tags				
RFID tags	Standard	On-metal	High Sensitivity	
Material guidance	centered			
RFID print speed up to mm mm/s	100			
Materials				
Printable	see SQUIX 4 M			

See SQUIX 4 M for further label printer data

* upon request



For further information see www.cab.de/en/squix-rfid

Label printer SQUIX 8



SQUIX 8 for printing particularly wide label formats

Labels as wide as A4

In addition to basic units providing a tear-off plate, peel-off units are offered, providing an internal rewinder.

■ Standard □ Option

Label printer		SQUIX 8
Print head	Thermal transfer	■
	Thermal direct	■
	Printable resolution dpi	300
	Print speed up to mm/s	150
	Print width up to mm	216
Labels	Roll, fanfold	
	Roll diameter / core diameter mm	up to 205 / 38.1 - 76
	Width mm	46 - 220
	Height from mm	25
Ribbon	Coating	outside or inside
	Length up to m	600
Printer sizes and weight	Width x Height x Depth mm	352 x 288 x 460
	Weight kg	15
Electronics	Processor clock rate MHz	800
	Data memory MB	50
	Main memory RAM MB	256
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■
	Digital I/O interface	□



For further information see www.cab.de/en/squix

we identify more

Consistent know-how, high level vertical integration

All mechanical and plastic components used in cab devices and systems are manufactured in-house at the Sömmerda site. Facilities, machinery and equipment are always using the latest technology.

Substantial equipment provides the preconditions to economically manufacture even complex marking systems that set demanding requirements on production processes. The competencies for the whole process chain of electronics, mechanics and software are provided within cab.



For further information see
<https://we-identify-more.com/en>



Label printer XD Q



XD Q for printing on continuous materials such as shrink tubes or textiles

Printing in one operation on both sides of a material

The XD Q printer provides two print heads. A brush dissipates electrostatic charge subsequent to printing. When printing at high heating energy, a separator ensures reliable processes by separating the ribbon reliably from the material. An additional roller keeps the material in tension.

■ Standard □ Option

Label printer		XD Q4/300	XD Q2/600
Print head	Printing method	Thermal transfer	
	Printable resolution dpi	300	600
	Print speed up to mm/s	200	100
	Print width up to mm	105.7	54.1
Labels	Roll outside diameter up to mm	300	
	Width mm	10 - 110	
	Height from mm	20	
Ribbon	Coating	outside or inside	
	Length up to m	600	
Printer sizes and weight	Width x Height x Depth mm	248 x 395 x 594	
	Weight kg	21	
Electronics	Processor clock rate MHz	800	
	Data memory MB	50	
	Main memory RAM MB	256	
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■	
	Digital I/O interface	□	



A stacker and a cutter assembled to XD Q



For further information see www.cab.de/en/xdq

Label printers XC Q4, XC Q6



XC Q for printing GHS labels at a maximum print width of 162.6 mm

Printing in one operation with two colors

The XC Q have two thermal transfer printing units arranged in series for simultaneously printing with two colors on a label:

- complying with GHS labeling directives
- processing large label rolls with maximum diameter 300 mm
- providing a ribbon saving feature on one print head

■ Standard □ Option

Label printer		XC Q4	XC Q6
Print head	Printing method	Thermal transfer	
	Printable resolution dpi	300	
	Print speed up to mm/s	200	
	Print width up to mm	105.7	162.6
Labels	Roll outside diameter up to mm	300	
	Width mm	20 - 116	46 - 176
	Height from mm	20	
Ribbon	Coating	outside or inside	
	Length up to m	600	
Printer sizes and weights	Width x Height x Depth mm	248 x 395 x 554	358 x 395 x 554
	Weight kg	22	24
Electronics	Processor clock rate MHz	800	
	Data memory MB	50	
	Main memory RAM MB	256	
Interfaces	RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN	■	
	Digital I/O interface	□	



For further information see
www.cab.de/en/xcq

Tube labeling systems **AXON 1, AXON 2**



AXON 1 – identify lab samples reliably with **vertical** tube / vial orientation

Real time sample labeling

AXON devices label tubes or vials, with or without a closure cap.

On an AXON 1, these are inserted vertically upright, by hand or by an automated handling system.

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

■ Standard □ Option

Tube labeling system		AXON 1
Print head	Thermal transfer	■
	Thermal direct	■
	Printable resolution dpi	300 / 600
	Print speed up to mm/s	100
	Print width up to mm	56.9
Tubes, vials	Orientation at the time of a label be applied	vertical
	Diameter mm	7 - 26 up to 38 upon request
	Length, closure cap included mm	20 - 130
	Conicity (change in diameter) up to %	0.8
	Roll outside diameter up to mm	205
Labels	Width mm	5 - 56
	Height from mm	12
Ribbon	Coating	outside or inside
	Length up to m	600
Printer sizes and weight	Width x Height x Depth mm	270 x 195 x 560
Electronics	Weight approx. kg	12
	Processor clock rate MHz	800
	Data memory MB	50
	Main memory RAM MB	256
Interfaces	RS232-C	■
	USB for PC	■
	Ethernet	■
	USB host	■
	Digital I/O interface	□



For further information see www.cab.de/en/axon1



AXON 2 – identify lab samples reliably with **horizontal** tube / vial orientation

Real time sample labeling

Labeling is exerted with tubes / vials inserted horizontally on a classic printer chassis.

Identified tubes / vials can be ejected automatically - to a tray, for example.

■ Standard □ Option

Tube labeling system		AXON 2
Print head	Thermal transfer	■
	Thermal direct	■
	Printable resolution dpi	300 / 600
	Print speed up to mm/s	150
	Print width up to mm	108.4
Tubes, vials	Orientation at the time of a label be applied	horizontal
	Diameter mm	10 - 22 7 - 12 if options are provided
	Length, closure cap included mm	25 - 120
	Conicity (change in diameter) up to %	0.8
Labels	Roll outside diameter up to mm	205
	Width mm	5 - 56 5 - 110 if options are provided
	Height from mm	12
	Coating	outside or inside
Ribbon	Length up to m	600
	Width x Height x Depth mm	252 x 288 x 520
Printer sizes and weight	Weight approx. kg	12
Electronics	Processor clock rate MHz	800
	Data memory MB	50
	Main memory RAM MB	256
Interfaces	RS232-C	■
	USB for PC	■
	Ethernet	■
	USB host	■
	Digital I/O interface	□



For further information see
www.cab.de/en/axon2

Print and apply systems **HERMES Q**



HERMES Q operated with an applicator – printing and applying labels in one operation

■ Standard □ Option

Fully automated labeling

If labels have to be printed in large quantities in manufacture lines and then applied fully automated to products or packaging in the same operation, HERMES Q is future-proof: In cases of products or label sizes changing, the applicator unit can be replaced individually. 2“, 4“ or 6“ are maximum print widths

Print and apply system		HERMES Q2		HERMES Q4		HERMES Q6.3	
Print head	Thermal transfer	■		■		■	
	Thermal direct	-		■		-	
	Printable resolution	dpi		203		300	
	Print speed	up to mm/s		300		150	
	Print width	up to mm		104		105.7	
Labels	Roll outside diameter	up to mm		205 / 305		168	
	Width	mm		4 - 58		10 - 114	
	Height	from mm		3		4	
Ribbon	Coating			outside or inside			
	Length	up to m		600			
Device sizes and weights	Width x Height x Depth ¹⁾	mm		207 x 430 x 500		260 x 430 x 500	
	Weight	kg		15 / 16		16 / 17	
Electronics	Processor clock rate	MHz		800			
	Data memory	MB		50			
	Main memory RAM	MB		256			
Interfaces	RS232-C			■			
	USB for PC			■			
	Ethernet / 2 port Ethernet switch			■ / □			
	USB host			■			
	Digital I/O interface			■			
	Periphery			■			
	Warning light			via USB host			
	E-stop			-			
	ON/OFF valve of compressed air regulation unit			-			

¹⁾ with a 305 mm roll diameter in use



Labels provided to the left



Labels provided to the right



For further information see
www.cab.de/en/hermesq

Applicators for **labeling products using 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 either in motion or at rest during labeling.

Applicators for **labeling packaging using HERMES Q**



3014 / 3016
Front side applicators



4014 / 4016
Stroke applicators



4614
Stroke blow applicator



5112 / 5114 / 5116
Demand modules



5314 / 5316 und 5414 / 5416
Vacuum belt applicators



6114
Air jet box

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



For further information see
www.cab.de/en/hermesq-applicators

Print and apply system **Hermes C**



Hermes C operated with an applicator – printing with two colors on labels and applying them in the same operation

Labeling hazardous substances fully automatically
Hermes C was developed and optimized in particular for operations in accordance with GHS directives.

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

Print and apply system			Hermes C 6L
Print head	Printing method	Thermal transfer	Thermal transfer
	Printable resolution	dpi	300
	Print speed	up to mm/s	125
	Print width	up to mm	162.6
Labels	Roll outside diameter	up to mm	205 / 305
	Width	mm	46 - 176
	Height	from mm	20 - 356
Ribbon	Coating		outside or inside
	Length	up to m	450
Device sizes and weight	Width x Height x Depth ¹⁾	mm	320 x 550 x 630
	Weight	kg	30
Electronics	Processor clock rate	MHz	266
	Data memory	MB	8
	Main memory RAM	MB	64
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		■

¹⁾ with a 305 mm roll diameter in use

GLUTARALDEHYDE SOLUTION 50%

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

UN 3265

CLAS 8 22

DANGER Hazardous Statements Very toxic to aquatic life. May cause respiratory irritation. May cause asthma symptoms or breathing difficulties if inhaled. 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. **Environmental 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-pentanedial

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For further information see www.cab.de/en/hermesC

Applicators provided for **Hermes C**

4126C / 4136C

Stroke applicators

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



5326C / 5426C

Vacuum belt applicators

Labeling packaging or products
in motion



For further information see
www.cab.de/en/hermes-c-applicators

Transfer modules to operate with stroke applicators



Tamp pad

Pressing labels on flat surfaces



Tamp pad, spring-mounted

Applying labels even to inclined surfaces
(no more than approx. 8°)



Roll-on pad

Rolling labels on flat surfaces in motion

Labeling head IXOR



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

Application of pre-printed labels on products or packaging

In the matter of mechanics, the IXOR can be ideally integrated in fully automatic labeling machines with the help of a modular construction kit. It can also be assembled to the conveyor belt of a production line by means of accessorial stands.

The device has the control unit integrated, a separate control cabinet is not required.

■ Standard □ Option

Labeling head		IXOR			
Performance data	Construction width	mm / "	124 / 4.9	186 / 7.3	248 / 9.7 310 / 12.2
	Label web speed	up to m/min up to ipm	25 / 50 / 100 / 200 - depending from device type 1,000 / 2,000 / 4,000 / 8,000 - dep. from device type		
Labels	Roll outside diameter	up to mm	310 / 410 mm (12" / 16")		410 mm (16")
	Width	up to mm	120	182	244 306
	Length	mm	5 - 6,000		
Device sizes and weights	Width x Height with supply roll 310 mm	mm	600 x 600		-
	Width x Height with supply roll 410 mm	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, cab has set up its own contact and sales department. Please contact our specialist staff at labeling@cab.de

Examples of construction

**Construction L - left-hand
Assembly V - vertical**



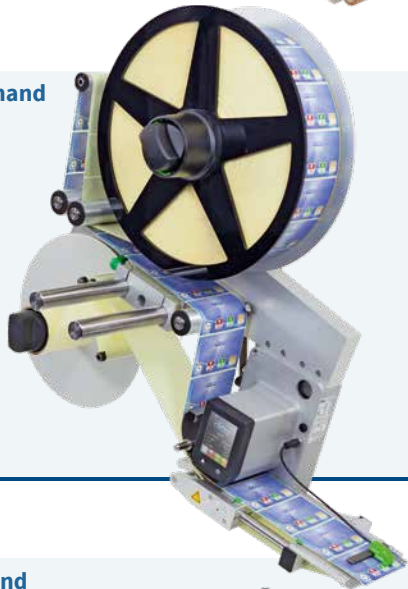
Pictured:
Labeling head 124 L
Unwinder D310 V 124 L
Outside diameter D: 310 mm

**Construction R - right-hand
Assembly V - vertical**



Pictured:
Labeling head 124 R
Unwinder D410 V 124 R
Outside diameter D: 410 mm

**Construction R - right-hand
Assembly V - vertical**



Pictured:
Labeling head 124 R
Unwinder D410 V 124 R motor-driven
Outside diameter D: 410 mm

**Construction L - left-hand
Assembly H - horizontal**



Pictured:
Labeling head 186 L
Unwinder D410 H 186 L
Outside diameter D: 410 mm



For further information see
www.cab.de/en/ixor

Print modules PX Q4, PX Q6



Printing and labeling fully automatically in industrial applications
Full functionality, high reliability, comfortable operation and low downtime related to maintenance - the PX Q can be integrated in any orientation of assembly to solve even complex marking tasks.

Screwing is compatible to the devices of competitors.

■ Standard □ Option

Print module		PX Q4			PX Q6	
Print head	Printing method	Thermal transfer, thermal direct				
	Printable resolution dpi	203	300	600	203	300
	Print speed up to mm/s	300	300	150	250	
	Print width up to mm	104	108.4	105.7	168	162.6
Labels	Width mm	10 - 116			50 - 174	
	Height without backfeed from mm	6			12	
Ribbon	Coating	outside or inside				
	Length up to m	600				
Electronics	Processor clock rate MHz	800				
	Data memory MB	50				
	Main memory RAM MB	256				
Interfaces	RS232-C	■				
	USB for PC	■				
	Ethernet / 2 port Ethernet switch	■ / □				
	USB host	■				
	Digital I/O interface	□				



For further information see www.cab.de/en/pxq

Label dispensers HS, VS



HS60+ for horizontal dispensing

VS120 for vertical dispensing

VS180+ for wide labels up to 180 mm

Dispensing labels - automatic or on request

With the HS and VS all label sizes can be easily dispensed. Labels may be punched or cut without space in between. Any outside shape, square or round, can be processed. Even transparent material can be dispensed:

- With horizontal dispensers (HS) the labels are peeled off in upward direction from their bottom edge and stuck to the product.
- With vertical dispensers (VS) the labels are peeled off in forward direction from their upper edge and stuck to the product via the shortest path.

“+” models have an operation panel added

■ Standard

Label dispenser		HS	VS	HS+, VS+
	Materials	Paper, textile, plastics on roll, punched or die cut, Leporello as an option		
	Feed rate up to mm/s	200		100 / 200
Rewinder	Carrier material outside diameter up to mm	155		
Label sensor	Scanning	Label front edge		
	Distance to locating edge mm	5 - 55		
	Height pre-dispense mm	4 - 18		
Connectors	Peel-off on request via external signal	-		■
	Power socket for non-heating apparatus	Power supply		
	Power switch	ON, OFF		
Device specific		HS60, VS60	HS120, VS120	HS180+, VS180+
Labels	Roll outside diameter up to mm	200		
	Width ¹⁾ mm	8 - 65	20 - 120	80 - 180
	Height one wide mm	5 - 300	8 - 600	20 - 600
	Height multi wide mm	5 - 110	8 - 110	20 - 110
Device sizes and weights	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

¹⁾ carrier material included



For further information see
www.cab.de/en/hsvs

Marking laser XENO 4



XENO 4 / 20 with a scan head

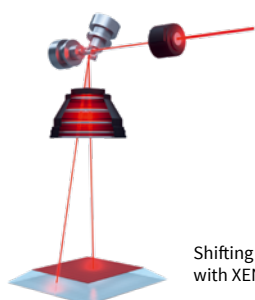
Durable marking of metal and plastics

It is possible to mark stagnant products in Medtech, aerospace, electronics and the automotive industries.

XENO 4 are diode-pumped and air-cooled. They have high beam quality and high pulse peak powers.

XENO 4 consist of two units: a control unit with an integral beam source, added by a scan head. The beam sources provide 20, 30 or 50 Watt maximum output power.

The XENO 4S model offers extra quick focus adjustment. Components can thus be marked sharp-edged, on a high depth of focus, on several levels - even if heights differ about 140 mm.



Shifting the focus with XENO 4S

■ Standard

Marking laser			XENO 4 / 20	XENO 4 / 30	XENO 4 / 50
Beam source	cw output power	up to W	20	30	50
	Pulse energy	mJ	1		
	Wave length	nm	1,064		
	Beam quality M ²		<1.8		
	Pulse width	ns	<120		
	Pulse repetition frequency kHz		20 - 60	30 - 60	50 - 100
	Connecting cable	m	2.5		
Scan head	Assembly		horizontal / vertical		
	Marking speed	mm/s	~5,000		
Pilot laser	Wave length	nm	650		
	cw output power	mW	<1		
Electronics	Processor clock rate	MHz	600		
	Data memory	MB	512		
	Main memory RAM	MB	256		
Laser safety class EN60825-1	Beam source		Class 4		
	Pilot laser		Class 2		
Interfaces	RS232-C		■		
	Ethernet		■		
	Digital I/O interface		■		
	Remote		■		
	E-stop		■		
			Rack 4RU 19"		
Device sizes and weights	Control unit	mm	420 x 178 x 420		
	Width x Height x Depth				
	Control unit weight	kg	16		
	Scan head	mm	99 x 135 x 205		
	Width x Height x Depth				
			Scan head weight		
			kg		
			3		



For further information see
www.cab.de/en/laser

Periphery samples for XENO 4 marking lasers



LSG+100E for the marking of serial parts

LM+ for the marking of labels made of laser markable foil

■ Standard

Laser safety housing LSG+100E

The LSG+100E offers an industrial solution for marking component series with a marking laser XENO 4. The rugged metal design besides a large work area provides enough space to integrate both the beam source and an industrial PC in a 19" assembly frame.

The operation door opens and closes electrically.

Laser label marker LM+

The LM+ allows to precisely mark labels of different sizes directly from the roll and cut them without the need of additional tools.

After the marking, the labels made of laser markable foil can either be separated with a cutter or rewound with an external rewinder.

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 up to mm/s	60	
	Positional accuracy mm	0.02	
Device sizes and weight	Width x Height x Depth mm	1,000 x 2,280 x 1,120	
	Weight kg	395	
Interfaces	Digital I/O interface XENO 4	■	
	Remote XENO 4	■	
	E-stop XENO 4	■	
	Step motor Z axis, X axis, rotary axis	■	
	Extraction and filter device	■	
Laser label marker		LM+160.2	LM+254.2
	Work area mm	160 x 5 x 190	
	Width x Height x Depth		
	Transport speed mm/s	200	
	Positional accuracy mm	0.2	
Labels	Roll outside diameter up to mm	300	
	Roll winding	outside (inside upon request)	
	Width mm	25 - 120	
	Height up to mm	180	
Device sizes and weight	Width x Height x Depth mm	440 x 520 x 802	
	Weight kg	22	
Interfaces	RS232-C XENO 4 CON5	■	
	E-stop XENO 4	■	
	E-stop external	■	
	Cutter	■	



Markings on cast parts



Traceable sterilization



Medical size allocation



Aluminum rating plates

Laser marking systems **XENO 1, XENO 3**



XENO 1 „out of the box“ marking system

XENO 3 for durable plate marking

Compact desktop systems, requiring little footprint

XENO 1 and XENO 3 complement the range of cab laser marking systems in the lower price segment, complying with high industrial standards.

XENO 1

The automatic operation door opens or closes rapidly. Materials can be inserted by hand or by a handling system from three sides.

Interior LED lighting enables observing a workpiece while the operation door is closed.

XENO 3

is an integral laser system for marking metal and plastic plates permanently

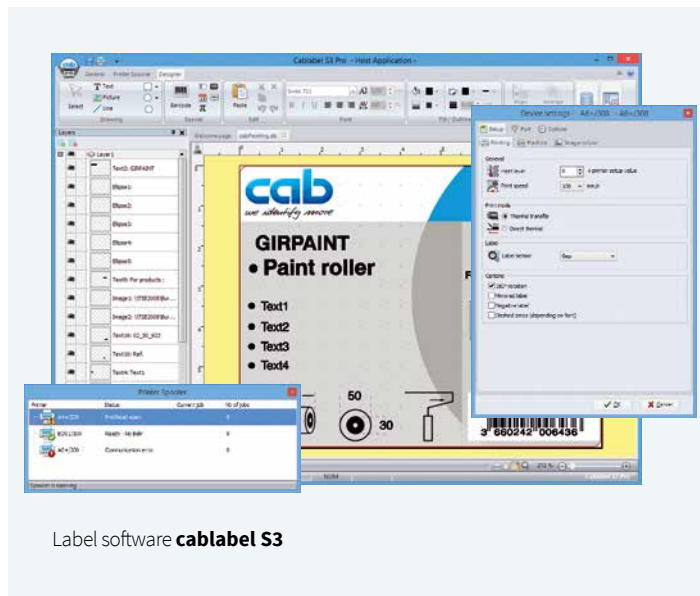
Markings applied by a XENO 3 remain clearly legible even in the long term in rough surroundings.

Laser marking system			XENO 1 / XENO 3	
Beam source	cw output power	up to W	20	30
	Pulse repetition frequency	kHz	20 - 60	30 - 60
	Pulse energy	mJ	1	
	Wave length	nm	1,064	
	Beam quality M ²		< 1.8	
	Pulse width	ns	< 120	
Pilot laser / Focus finder	Wave length	nm	650	
	cw output power	mW	< 0.4	
			XENO 1	XENO 3
Work area	Height	mm	100 / 200	-
Plates	Width x Height	mm	-	40 x 20 - 120 x 100
Z axis	Traversing speed	mm/s	20	-
	Positional accuracy	mm	±0.1	-
Laser safety class EN60825-1			Class 1	
Interfaces	Work area		Rotary axis Digital I/O interface	-
	Back of the device		Ethernet TCP/IP 24 V for digital I/O interface Extraction and filter device AF5 External start External e-stop	2x Ethernet TCP/IP Extraction and filter device AF5 External start External e-stop
Device sizes and weights	Width x Height x Depth	mm	580 x 660 x 700	420 x 480 x 480
	Weight	approx. kg	65	< 35



For further information see
www.cab.de/en/laser

Software for cab devices



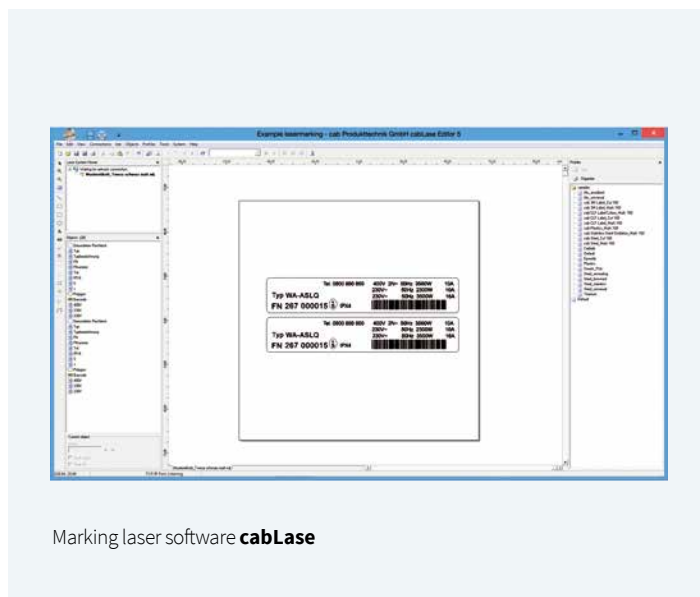
Designing, printing, administrating with cablabel S3

The cablabel S3 software opens up the full potential of cab devices. First of all, the label must be designed. Only when it comes to printing it has to be decided whether the label shall be processed on a label printer, a print and apply or marking laser system.

cablabel S3 is of a modular design which makes it adaptable to requirements step by step. To support functions like native JScript programming, elements such as the JScript Viewer are embedded as plug-ins. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database connector or barcode testers can be integrated.



For further information see
www.cab.de/en/cablabel



Designing, controlling, monitoring with cabLase

cab marking lasers have installed cabLase Editor 5. It offers the key features

- graphic design of layouts,
- control of marking,
- monitoring the marking process.

Further software features are

- support of marking without a PC,
- remote control,
- remote API interface for integration in manufacturing processes,
- integrability in MES and ERP platforms.



For further information see
www.cab.de/en/cablase

cab printers operated stand-alone

This operating mode is the printer's ability to select and print labels even when it is not connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are stored on a memory card, a USB memory stick or in the internal IFFS memory.

Only variable data are sent to the printer via a keyboard, a barcode scanner, scales or other systems. With the Database Connector, these data are recalled from the host and printed.



Precise printing with **cab labels**



Standard materials are offered from stock, **special labels** can be manufactured user-specific from more than 400 materials.

Good reasons to choose cab labels

Label surfaces are optimized for high resolution in thermal transfer printing. The diameters of rolls and cores as well as windings correspond with cab printers. cab cooperates with a partner certified according to IATF 16949. Sampling is offered corresponding to PPAP methods. Three samples of stock materials:



Paper white - slightly glossy

Applications are address labeling as well as the marking of product and goods in general in industry, logistics, trading or services.

This material offers high whiteness combined with a permanent adhesive.



Polyester white - matt

Applications are with customized stock materials resp. storage locations, goods on consignment, outdoor and production areas as well as potential hazards.

This material is highly resistant to tearing, oils and extreme temperatures, repelling dirt and water.



Polyester silver - matt

Applications are with printers having a high printable resolution: e. g. product type-plates or indicating labels when labeling devices indoor and outdoor

This material convinces with a strong adhesive power on smooth surfaces and high resistance to extreme temperatures.



For further information see
www.cab.de/en/labels

High-quality printing with **cab** ribbons



cab ribbons have a special back coating to avoid static electrification and better dissipate residual heat.

Good reasons to choose cab ribbons

Whether narrow or wide labels have to be applied, on products or typeplates - cab provides 10 types of ribbons for any demand. Tailored specifically for cab printers, they provide consistently high quality. Colored and outside-wound ribbons are available on request.

Wax ribbons

Fitting with fast and economical printing on vellum or coated paper, wax ribbons produce high-contrast, sharp and clear imprints with a high density. Recommended if wipe resistance is not a top priority

Resin/wax ribbons

Resin/wax ribbons provide a higher abrasion and scratch resistance than pure wax ribbons while offering the same density. Recommended for a bunch of applications with chromated or coated papers as well as plastics

Resin ribbons

Resin ribbons are highly resistant to scratching, extreme temperatures and dissolvers. They are therefore primarily used with plastic materials, even with coated surfaces. Ribbons withstanding washing and ironing are also provided



For further information see
www.cab.de/en/ribbons

At home in **any industry**

A quarter of a million cab devices 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, transport and logistics as well as in retail and wholesale trading and the services sector.



Applications

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

Customers

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



„We set milestones in the development and manufacturing of devices and systems for product marking.“

Roman Schnider
Head of Software Development

Services and training

Services

Well-trained cab service engineers worldwide support in the maintenance and repair of the devices.

Send your printer to a cab service center or a service partner selected by us. Your device will be checked and repaired within few workdays. If requested, a loan device will be offered.

You prefer maintenance and repair on-site in your company? Then make an appointment with our Services Department:

Phone **+49 721 6626 300**, Email: service.de@cab.de

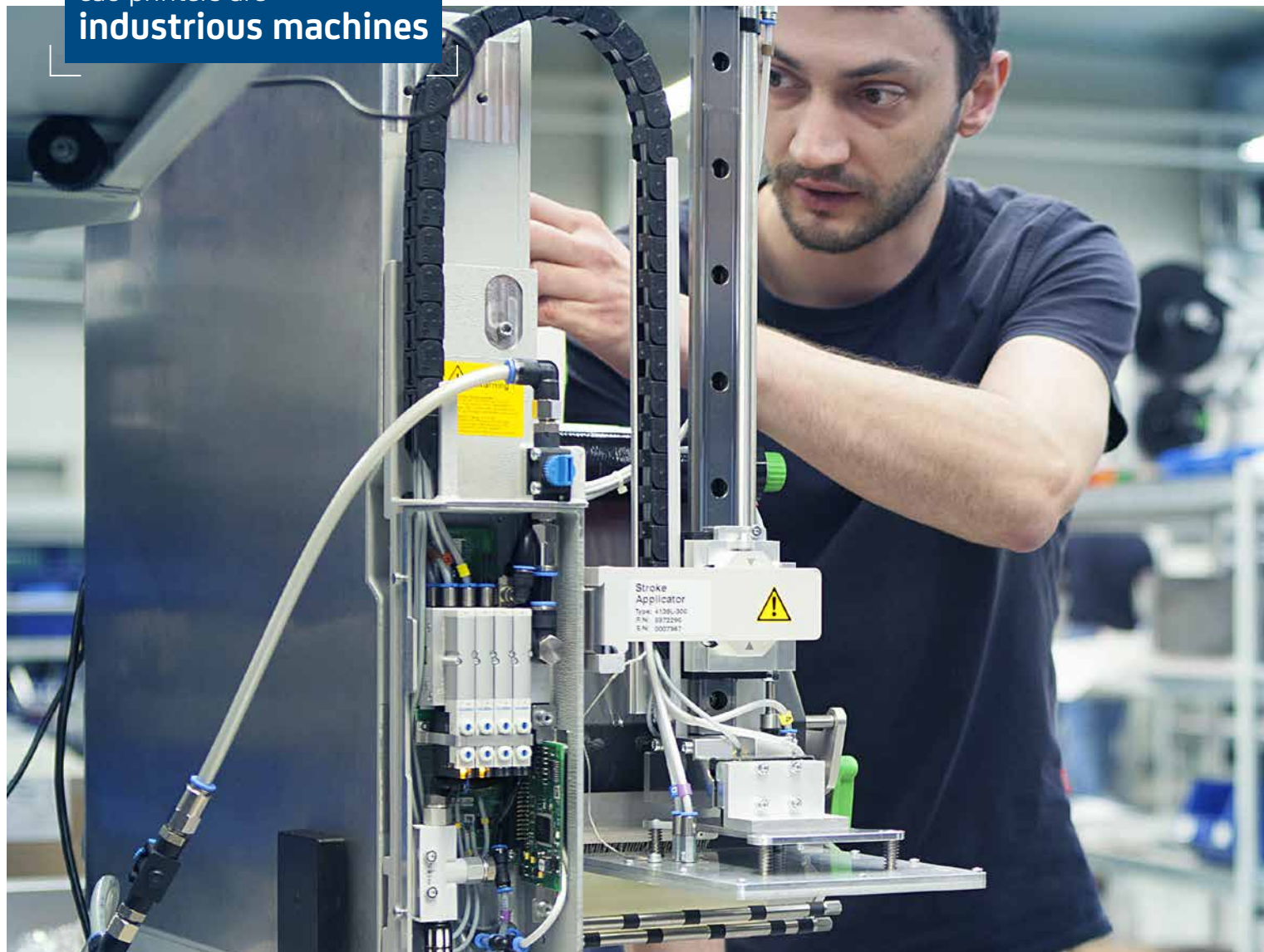
Training

Enhance your know-how on cab devices with regard to an effective use, service and repair.

In Karlsruhe we offer trainings on the handling of the devices, label design, software, printer drivers, programming, database access as well as on how to integrate in networks or superior ERP systems. We gladly send you detailed information on all our current training offers on request.

Individually we offer trainings according to your specific demands – in Karlsruhe or on-site in your company.

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