cab

we identify more

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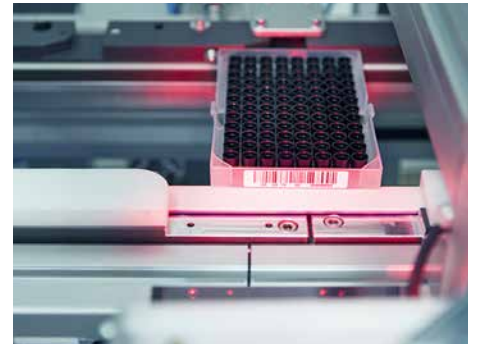
88 per cent of all the customers steadily rely on cab solutions - many of them for 20 years or more.

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, USA, Mexico, 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 seven countries

- 87 million Euros group turnover in fiscal year 2020

- 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!

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

The MACH 4S 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		
	Height peel-off, single cut		12		
Ribbon	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		■		

with a tear-off edge

with peel-off function

with a cutter

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			Peel-off version ■, basic version □				

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

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.

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

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	Peel-off device ■, basic device □			Basic device □	

SQUIX 4 M integrating UHF RFID options

SQUIX 4 M with a stacker and cutter

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

Label printer **A8+**

A8+ for pallet and barrel labeling

8" printers for wide label applications

Examples: pallet and barrel labels

■ Standard   □ Option

Label printer			A8+
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 outside diameter	up to mm	205
	Width	mm	46 - 220
	Height without label backfeed	from mm	10
Ribbon	Coating		outside or inside
	Length	up to m	360
Printer sizes and weight	Width x Height x Depth	mm	352 x 274 x 446
	Weight	kg	15
Electronics	Processor clock rate	MHz	266
	Data memory	MB	8
	Main memory RAM	MB	64
Interfaces	Centronics		□
	RS232-C		■
	USB for PC		■
	Ethernet		■
	RS422 / RS485		□
	Periphery		■
	USB host		■
	WLAN		□
	Digital I/O		-

For further information see
www.cab.de/en/a8plus

Label printer **XD4T**

XD4T for double-sided printing also on textile materials

Textile printer XD4T

The XD4T prints on both sides of a textile tape, cardboard labels, pressed tubes, continuous or ready-for-use, as well as on continuous plastic, paper or cardboard materials:

- No print head adjustment for different material widths
- Print rollers for narrow and slim materials

■ Standard   □ Option

Label printer			XD4T
Print head	Printing method		Thermal transfer
	Printable resolution	dpi	300
	Print speed	up to mm/s	125
	Print width	up to mm	105,6
Labels	Roll outside diameter	up to mm	300
	Width	mm	10 - 110
	Height without label backfeed	from mm	20
Ribbon	Coating		outside or inside
	Length	up to m	360
Printer sizes and weight	Width x Height x Depth	mm	248 x 395 x 554
	Weight	kg	21
Electronics	Processor clock rate	MHz	266
	Data memory	MB	8
	Main memory RAM	MB	64
Interfaces	RS232-C		■
	USB for PC		■
	Ethernet		■
	Periphery		■
	USB host		■
	WLAN		□
	Digital I/O interface		-

XD4T with a stacker and cutter

For further information see
www.cab.de/en/xd4t

Label printers **XC4, XC6**

XC4, XC6 for two-color printing up to printh width 162.6 mm

Printing two colors in one operation

In order to simultaneously print with two colors in one label, the XC have two thermal transfer units arranged in-line:

- Meets the conditions for the Classification and Labeling Inventory according to GHS
- For large label rolls to diameter 300 mm
- Provides ribbon saving function at one print head

■ Standard   □ Option

Label printer			XC4	XC6
Print head	Printing method		Thermal transfer	
	Printable resolution	dpi	300	
	Print speed	up to mm/s	125	
	Print width	up to mm	105.6	162.6
Labels	Roll outside diameter	up to mm	300	
	Width	mm	20 - 116	46 - 176
	Height	mm	20 - 2,000	20 - 1,500
Ribbon	Coating		outside or inside	
	Length	up to m	360	
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	266	
	Data memory	MB	8	
	Main memory RAM	MB	64	
Interfaces	USB for PC		■	
	Ethernet		■	
	Periphery		■	
	USB host		■	
	WLAN		□	

XC6 with a cutter

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

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

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

AXON 1, AXON 2 print on self-adhesive labels and apply the printed labels on tubes.

Reliable lab sample labeling

AXON devices enable the labeling of tubes, capped or not capped. On an AXON 1, these are inserted from above vertically upright, manually or automatically. Identification on an AXON 2 is exerted in horizontal orientation in a classic printer chassis.

Labels are applied to the inserted tubes subsequent to printing. Identified tubes can be removed one by one. On an AXON 2, they may be ejected as well to a tray.

■ Standard □ Option

Tube labeling system			AXON 1	AXON 2	
Print head	Thermal transfer			■	
	Thermal direct			■	
	Printable resolution	dpi	300 / 600	300	600
	Print speed	up to mm/s	100	150	
	Print width	up to mm	56.9	108.4	105.7
				AXON 2	**AXON 2.1**
Tubes	Orientation during labeling		vertical	horizontal	
	Diameter	mm	10 - 26 [1]	10 - 17	16 - 20
	Length capped	mm	32 - 130	38 - 105	38 - 120
	Conicity (change of diameter) up to %		0.8		
Labels	Roll outside diameter	up to mm	205		
	Width	mm	10 - 56		20 - 110
	Height	from mm	12		
Ribbon	Coating		outside or inside		
	Length	up to m	450	600	
Printer sizes and weights	Width x Height x Depth	mm	270 x 195 x 560	252 x 288 x 520	
	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		□		

[1] up to 35 mm on request

For further information see
www.cab.de/en/print-apply

Print and apply systems **HERMES Q, Hermes C**

HERMES Q with applicator

Hermes C with applicator

HERMES Q

HERMES Q has been designed for automatic printing and applying in production lines.

Hermes C

Hermes C is for printing and applying with two colors in one operation. It has been developed and optimized especially for applications compliant to the Classification Inventory according to GHS.

Label transfer to the left

Label transfer to the right

For further information see
www.cab.de/en/print-apply

■ Standard   ☐ Option

Print and apply system			HERMES Q2		HERMES Q4			HERMES Q6.3		Hermes C 6L
Print head	Thermal transfer		■		■			■		■
	Thermal direct		-	-	■	-		■		-
	Printable resolution	dpi	300	600	203	300	600	203	300	300
	Print speed	up to mm/s	300	150	300		150	250		125
	Print width	up to mm	59.6	54.1	104	108.4	105.7	168		162.6
Labels	Roll outside diameter	up to mm	205 / 305							
	Width	mm	4 - 58		10 - 114			46 - 174		46 - 176
	Height	from mm	3		4			6		20 - 356
Ribbon	Coating		outside or inside							
	Length	up to m	600							450
Device sizes and weights	Width x Height x Depth[1]	mm	207 x 430 x 500		260 x 430 x 500			320 x 430 x 500		320 x 550 x 630
	Weight	kg	15 / 16		16 / 17			20		30
Electronics	Processor clock rate	MHz	800							266
	Data memory	MB	50							8
	Main memory RAM	MB	256							64
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 label roll diameter 305 mm

Applicators for **product marking 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 from the type of applicator, the product is either in motion or not in motion during labeling.

Applicators for **package marking with HERMES Q**

| 3014/3016 **Front side applicators** | 4014/4016 **Stroke applicators** | 4614 **Stroke blow applicator** | 5114 **Demand module** | 5314/5316 and 5414/5416 **Vacuum belt applicators** | 6114 **Air jet box** |

Labels may be applied from all sides. Depending from the type of pad, the packaging / product is in motion or not in motion during labeling.

Applicators for **Hermes C**

4126C / 4136C
Stroke applicators

Labels may be applied from all sides. Depending from the type of pad, the product is in motion or not in motion during labeling.

Transfer modules for stroke applicators

Tamp pad
To press labels on flat surfaces

Tamp pad spring-mounted
To apply labels even on surfaces up to approx. 8° inclination

Roll-on pad
To roll labels on flat surfaces in motion

5326C / 5426C
Vacuum belt applicators
For labeling on packaging or products 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			
	Construction width	mm / "	124 / 4.9	186 / 7.3	248 / 9.7	310 / 12.2
Performance data	Label web speed	up to m/min	25 / 50 / 100 / 200 - depending from device type			
		up to ipm	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
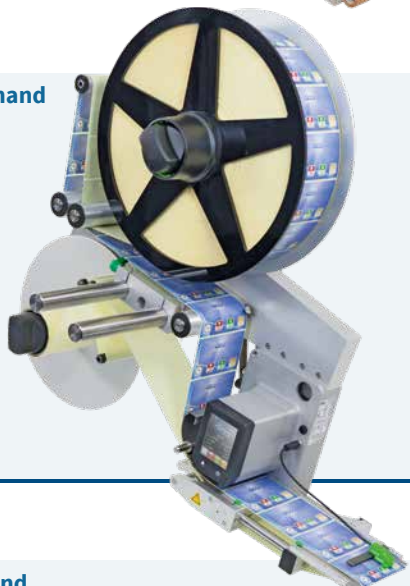**Assembly V - vertical**

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**

PX Q4, industrial device for accurate imprint

PX Q6 for Odette and UCC labels

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		□				

Label transfer to the left   Label transfer to the right

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
- automatical 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 up to mm outside diameter	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	Width x Height x Depth mm	180 x 250 x 360	230 x 250 x 360	300 x 250 x 360
and weights	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 M²			<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 Width x Height x Depth	mm		420 x 178 x 420	
	Control unit weight	kg		16	
	Scan head Width x Height x Depth	mm		99 x 135 x 205	
	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 Width x Height x Depth	mm	980 x 460 x 980	
	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 Width x Height x Depth	mm	160 x 5 x 190	
	Transport speed	mm/s	200	
	Positional accuracy	mm	0.2	
Labels	Roll outside diameter	up to mm	300	
	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 system **XENO 1**

XENO 1 laser marking system "out of the box"

Compact desktop system, demanding little footprint

XENO 1 completes the range of cab laser marking systems in the lower price segment. Processing the system complies with high industrial standards.

The automatic operation door opens or closes within seconds. Material can be inserted manually or by a handling system from three sides.

Interior LED lighting allows observation of the workpiece when the operation door is closed.

Laser marking system			XENO 1	
Beam source	cw output power	up to W	20	30
	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
Pilot laser / focus finder	Wave length	nm	650	
	cw output power	mW	< 0.4	
Z axis	Work area	height mm	100 / 200	
	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	
	Back of device		Ethernet TCP/IP 24 V for digital I/O interface Extraction and filter device External start External E-stop	
Device sizes and weight	Width x Height x Depth	mm	580 x 660 x 700	
	Weight	approx. kg	65	

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

Software for **cab devices**
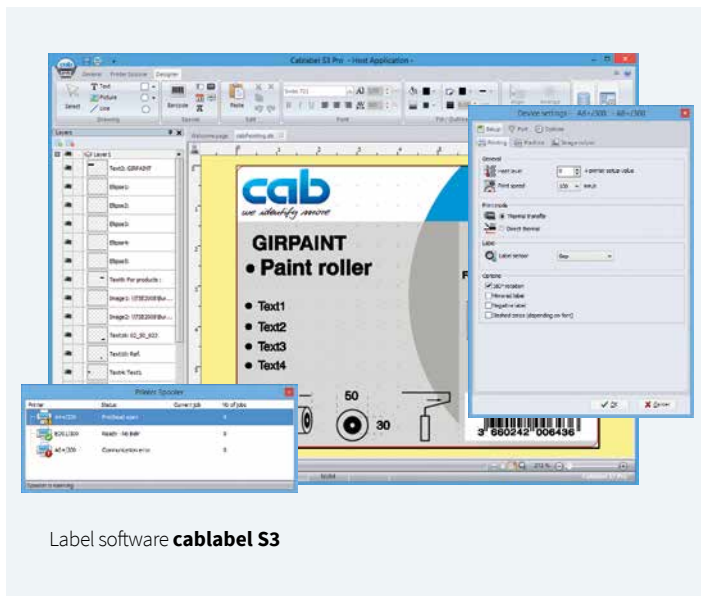
Label software **cablabel S3**

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
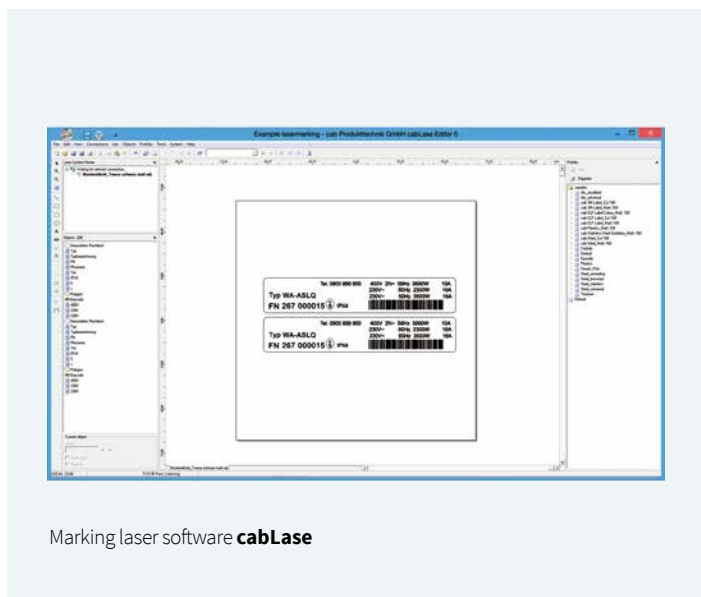
Marking laser software **cabLase**

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

Stand-alone operation of **cab printers**

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, if it is for product or typeplate marking - cab provides more than 20 types of ribbons for any demand. Tailored specifically for cab printers, these ribbons offer a consistent high quality.

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 sratch 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 available.

Colored ribbons on request

Colored cab ribbons in pure wax, resin/wax or pure resin qualities exhibit the same characteristics as the black ribbons. Golden or silver wax ribbons are specifically recommended for high-quality decorative labels.

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.

ALNO   KRONES   TRW   MAHLE   BAUMÜLLER   HTC
HOCHLAND   FESTO   FAURECIA
HELLA   DOLE   MOTOROLA
KLINIKUM NÜRNBERG
EMIRATES AIRLINES   NSM   FLUGHAFEN MÜNCHEN   3M   CONTINENTAL   EBMPAPST
DEUTSCHE POST   LIDL   CISCO   PHOENIX CONTACT   STEGO
OSIANDER   ZODIAC   LAND ROVER   KIT   TÜV SÜD
BMW   AEROSPACE   TTS   AUDI   KW
SCHÄFER SHOP   BURG   HUK COBURG
AIRBUS   JAGUAR   ROSSMANN   SIKORSKY
MARQUARDT   RAFI   QUNDIS
SEW-EURODRIVE
SIEMENS

> „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.

cab printers are
industrious machines
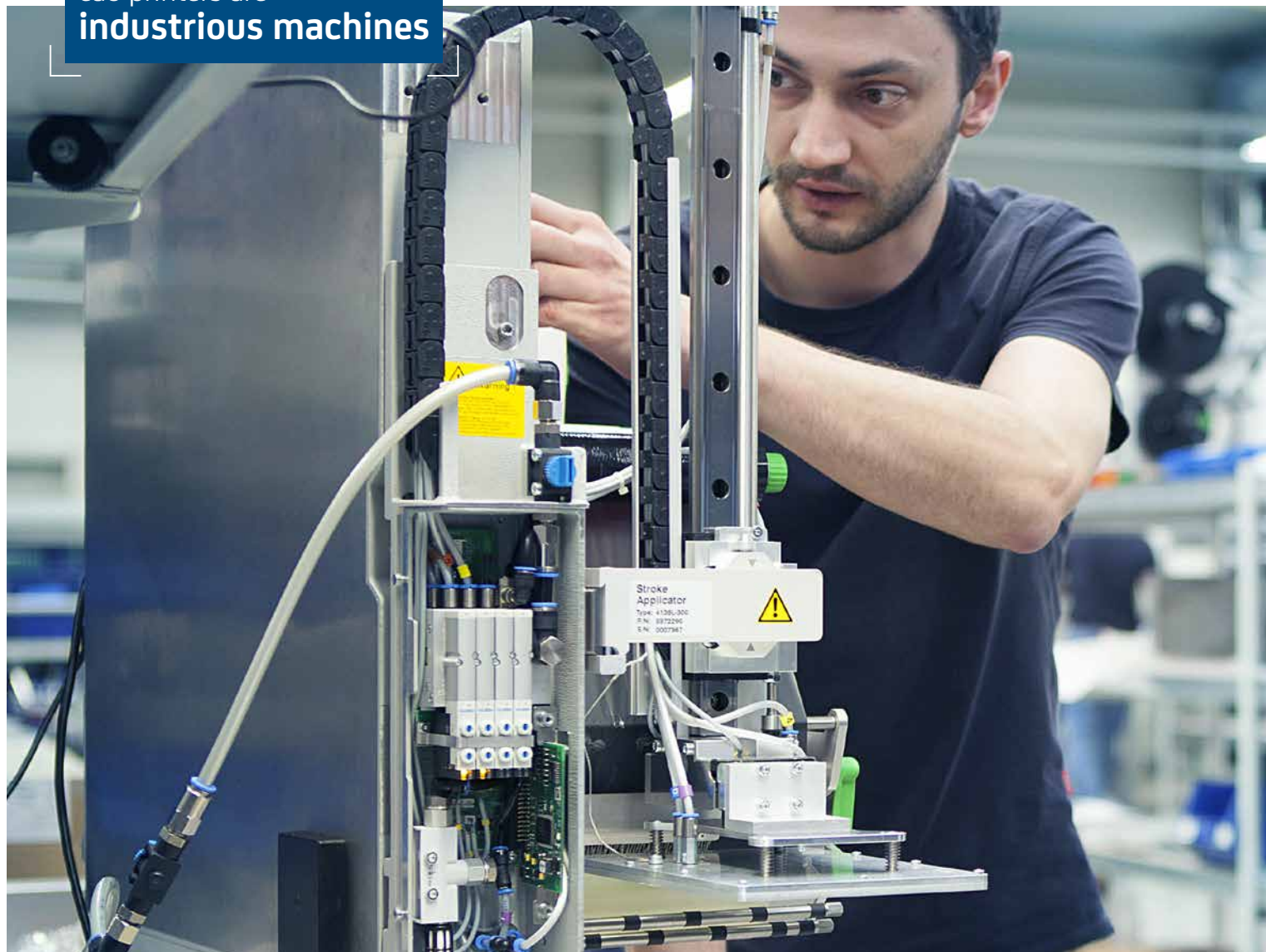
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