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**cab** devices and systems

# Products need labeling



## For any requirement a proper solution

Since more than 40 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

## COMPANY FACTS AND FIGURES

- founded 1975
- nine sites in seven countries
- 90 million Euros group turnover in fiscal year 2019
- Industry leader in automated and high-precision labeling
- Europe's major manufacturer of label printing systems



For further information see  
[www.cab.de/en](http://www.cab.de/en)

## 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





**KLAUS BARDUTZKY**

Managing Director and company founder

**ALEXANDER BARDUTZKY**

2nd generation Managing Director



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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](http://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                    | Ink side                       | outside or inside                |         |           |         |
|                           | Variable 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](http://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                    | Ink side                              | outside or inside                        |       |                       |       |
|                           | Variable 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](http://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                | 250                              | 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                               |       |       |
|                           | Ink side                              | outside or inside                |       |       |
|                           | Variable 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](http://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 | 250             | 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                    | Ink side   | outside or inside                   |     |                 |       |       |                 |       |
|                           | Variable 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 □ |     |                 |       |       |                 |       |



For further information see  
[www.cab.de/en/squix](http://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 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                                   | 250                               | 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                    | Ink side   | outside or inside                 |       |       |                 |       |
|                           | Variable 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 with a stacker and cutter



For further information see [www.cab.de/en/squix](http://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                 | from mm    | 10                |
|                          | without label backfeed |            |                   |
| Ribbon                   | Ink side               |            | outside or inside |
|                          | Variable 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](http://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                   | Ink side                      |            | outside or inside |
|                          | Variable length               | up to m    | 360               |
| Printer sizes and weight | Width x Height x Depth        | mm         | 248 x 395 x 554   |
| Electronics              | Weight                        | kg         | 21                |
|                          | Processor clock rate          | MHz        | 266               |
|                          | Data memory                   | MB         | 8                 |
| Interfaces               | Main memory RAM               | MB         | 64                |
|                          | 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](http://www.cab.de/en/xd4t)

# Label printers XC4, XC6



**XC4, XC6** for two-color printing up to printhead 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                    | Ink side               |            | outside or inside |                 |
|                           | Variable 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](http://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 system **AXON 2**



**AXON 2** is for printing 2D codes or linear barcodes on self-adhesive labels and applying the labels on tubes.

## Labeling tubes reliably in real time

AXON 2 suits for labeling tubes individually as a manual workstation or integrated in sample processing systems.

Tubes of diameters 10 to 17 mm can be processed, capped or uncapped. Printing and labeling take less than two seconds.

After the tubes have been labeled, they can be removed one by one or be ejected to a tray.

■ 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   105.7   |
| Labels                    | Roll outside diameter  | up to mm          | 205             |
|                           | Width                  | mm                | 10 - 56         |
|                           | Height                 | from mm           | 15              |
| Ribbon                    | Ink side               | outside or inside |                 |
|                           | Variable length        | up to m           | 600             |
| Printer sizes and weights | Width x Height x Depth | mm                | 252 x 288 x 520 |
| Electronics               | Weight                 | approx. kg        | 12              |
|                           | Processor clock rate   | MHz               | 800             |
|                           | Data memory            | MB                | 50              |
| Interfaces                | Main memory RAM        | MB                | 256             |
|                           | RS232-C                | ■                 |                 |
|                           | USB for PC             | ■                 |                 |
|                           | Ethernet               | ■                 |                 |
|                           | USB host               | ■                 |                 |
|                           | Digital I/O interface  | □                 |                 |



For further information see  
[www.cab.de/en/print-apply](http://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.



Label transfer to the left



Label transfer to the right

## 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.




For further information see  
[www.cab.de/en/print-apply](http://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               |  | 300             |  | 300             |
|                          | Print speed                                    | up to mm/s |  | 300               |  | 150             |  | 125             |
|                          | Print width                                    | up to mm   |  | 104               |  | 105.7           |  | 162.6           |
| Labels                   | Roll outside diameter                          | up to mm   |  | 205 / 305         |  |                 |  |                 |
|                          | Width  | mm         |  | 4 - 58            |  | 10 - 114        |  | 46 - 176        |
|                          | Height   | from mm    |  | 3                 |  | 4               |  | 20 - 356        |
| Ribbon                   | Ink side                                       |            |  | outside or inside |  |                 |  |                 |
|                          | Variable length                                | up to m    |  | 600               |  |                 |  | 450             |
| Device sizes and weights | Width x Height x Depth <sup>1)</sup>           | mm         |  | 207 x 430 x 500   |  | 260 x 430 x 500 |  | 320 x 550 x 630 |
|                          | Weight   | kg         |  | 15 / 16           |  | 16 / 17         |  | 20              |
| Electronics              | Processor clock rate                           | MHz        |  | 800               |  | 800             |  | 266             |
|                          | Data memory                                    | MB         |  | 50                |  | 50              |  | 8               |
|                          | Main memory RAM                                | MB         |  | 256               |  | 256             |  | 64              |
| Interfaces               | RS232-C  |            |  |                   |  | ■               |  |                 |
|                          | USB for PC                                     |            |  |                   |  | ■               |  |                 |
|                          | Ethernet / 2-Port Ethernet Switch              |            |  | ■ / ■             |  |                 |  | ■ / -           |
|                          | USB master                                     |            |  |                   |  | ■               |  |                 |
|                          | Digital I/O interface                          |            |  |                   |  | ■               |  |                 |
|                          | Periphery                                      |            |  |                   |  | ■               |  |                 |
|                          | Warning light                                  |            |  |                   |  | ■               |  |                 |
|                          | E-stop   |            |  | -                 |  |                 |  | ■               |
|                          | ON/OFF valve of compressed air regulation unit |            |  | -                 |  |                 |  | ■               |

<sup>1)</sup> 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   | 186  | 248 | 310             |
| 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<br>(12" / 16")                           |      |     | 410 mm<br>(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](mailto: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](http://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 - 176 |       |
|              | Height without backfeed from mm   | 6                                |       |       | 12       |       |
| Ribbon       | Ink side                          | outside or inside                |       |       |          |       |
|              | Variable 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](http://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       |
| <b>Rewinder</b>                 | Carrier material outside diameter up to mm | 155  |                 |                 |
| <b>Label sensor</b>             | Scanning                                   | Label front edge   |                 |                 |
|                                 | Distance to locating edge mm               | 5 - 55   |                 |                 |
|                                 | Height pre-dispense mm                     | 4 - 18   |                 |                 |
| <b>Connectors</b>               | 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+  |
| <b>Labels</b>                   | Roll outside diameter up to mm             | 200  |                 |                 |
|                                 | Width <sup>1)</sup> 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        |
| <b>Device sizes and weights</b> | 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> carrier material included



For further information see  
[www.cab.de/en/hsvs](http://www.cab.de/en/hsvs)



## Durable marking of metal and plastics

The beam sources provide 20, 30 or 50 Watt maximum output power.



For further information see  
[www.cab.de/en/laser](http://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                  |                |
| <b>Device sizes and weight</b> | Width x Height x Depth mm              | 1,000 x 2,280 x 1,120 |                |
|                                | Weight kg                              | 395                   |                |
| <b>Interfaces</b>              | 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+160.1              | LM+254.1       |
|                                | Work area mm                           | 160 x 5 x 190         |                |
|                                | Width x Height x Depth                 |                       |                |
|                                | Transport speed mm/s                   | 200                   |                |
|                                | Positional accuracy mm                 | 0.2                   |                |
| <b>Labels</b>                  | Roll outside diameter up to mm         | 300                   |                |
|                                | Width mm                               | 25 - 120              |                |
|                                | Height up to mm                        | 180                   |                |
| <b>Device sizes and weight</b> | Width x Height x Depth mm              | 440 x 520 x 802       |                |
|                                | Weight kg                              | 22                    |                |
| <b>Interfaces</b>              | 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.

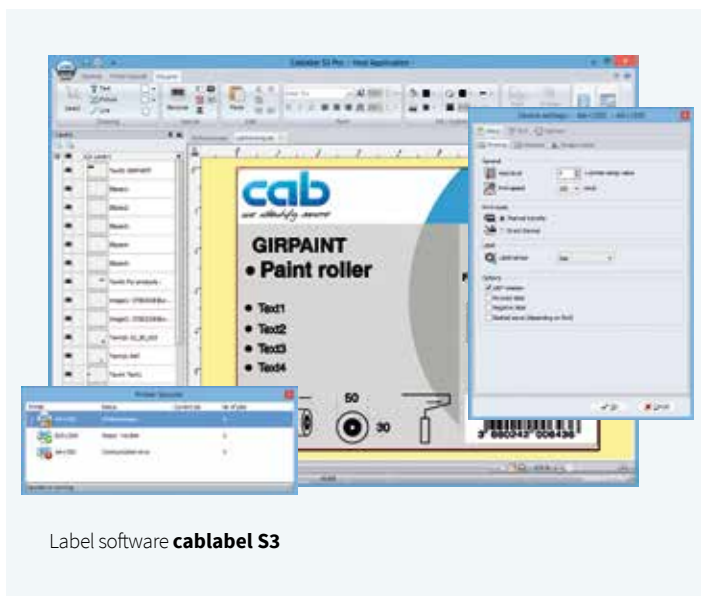
Interior LED lighting allows observation of the workpiece when the operation door is closed.

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



For further information see  
[www.cab.de/en/laser](http://www.cab.de/en/laser)

## Software for cab devices



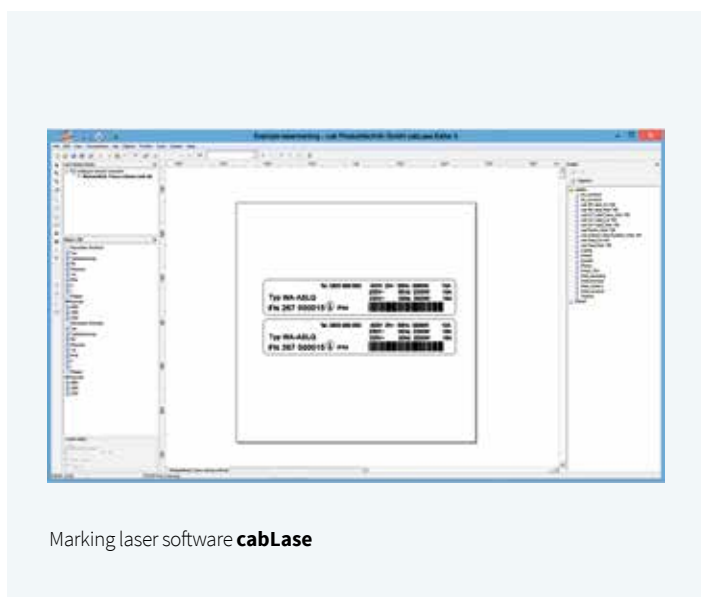
### Designing, printing, administrating with cablabel S3

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](http://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](http://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](http://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 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 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](http://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](mailto:service.de@cab.de)

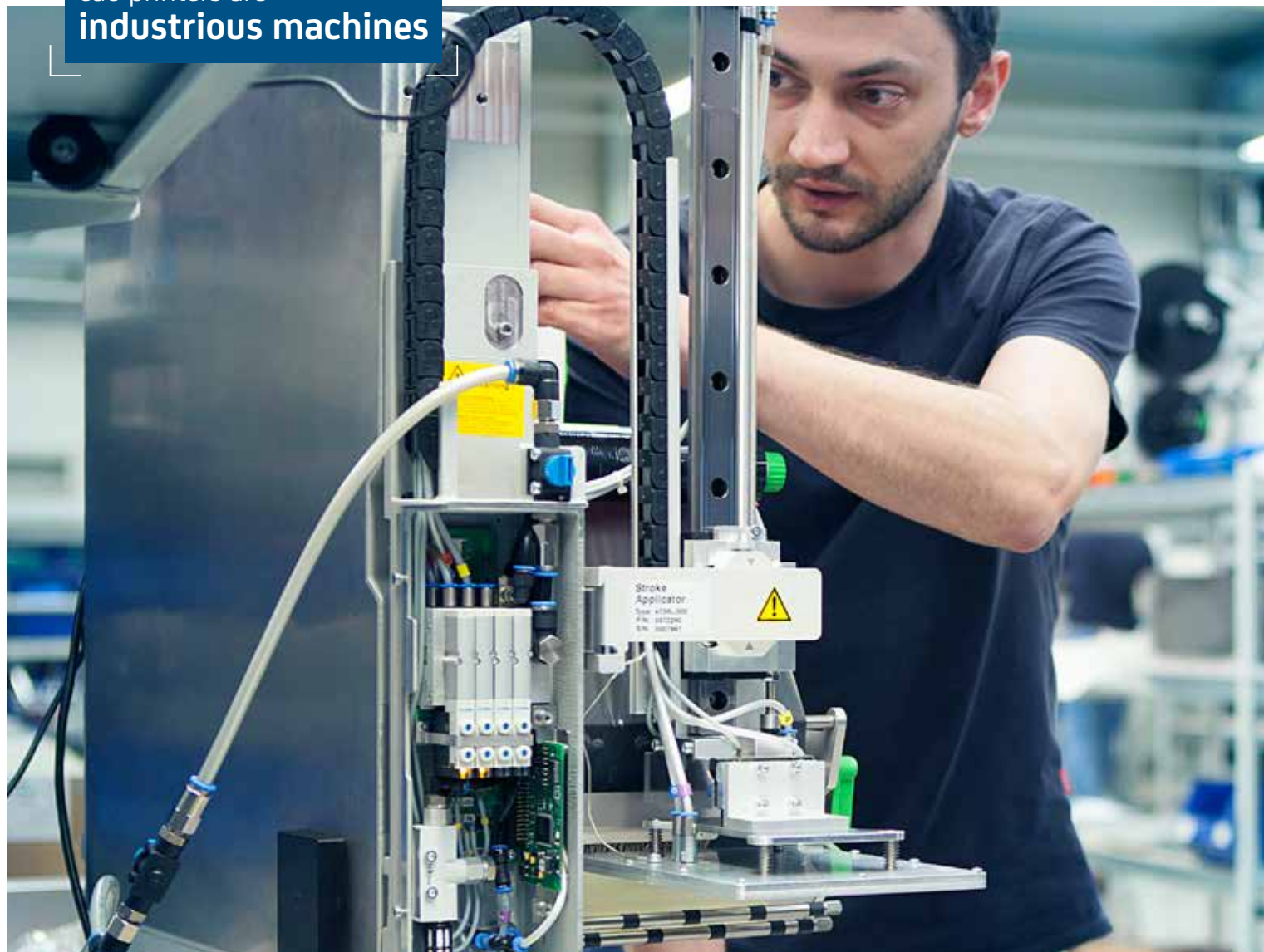
## Training

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**





**cab**  
*we identify more*

**Top Label printers**  
etikettenprinters & supplies