

Product marking

Units, systems, software, consumables





Products require labeling

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

PERFECT SOLUTIONS FOR ANY REQUIREMENT

cab for more than 50 years has been developing and manufacturing solutions and a wide range of accessories for marking tasks. Products include label printers, systems for printing and applying labels in one operation, label dispensers and laser marking systems. In addition, ribbons and labels are provided.

EASE OF OPERATION

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

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



Technologies for smart processes

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



Innovation built together

MADE IN GERMANY

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

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

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

CORPORATE FACTS AND FIGURES

- Founded in 1975
- Located in eight countries
- Approx. 100 million Euros group turnover in fiscal year 2025
- A leader in automated and highly precise label applications
- Major European manufacturer of label printing systems



See further information on
www.cab.de/en





KLAUS BARDUTZKY
Company Founder

ALEXANDER BARDUTZKY
CEO



EOS label printers



EOS 2 if roll diameters are no more than 152 mm



EOS 5 for roll diameters as wide as 203 mm

EOS printers unite the features known of solid label printers with highest ease of operation.

■ standard □ option

| Label printer | | EOS 2 | | EOS 5 | |
|----------------------|---------------------------------|---|-------|----------------------|-------|
| Print head | Print method | Thermal transfer, direct thermal | | | |
| | Print resolution dpi | 203 | 300 | 203 | 300 |
| | Print speed mm/s max. | 150 | | | |
| | Print width mm max. | 108 | 105.7 | 108 | 105.7 |
| Label | Roll, reel | ■ | | ■ | |
| | Fanfold | □ | | □ | |
| | Roll / core diameters mm | max. 152 / 38.1 - 76 | | max. 203 / 38.1 - 76 | |
| | Width mm | single-lane 10 - 116, multi-lane 5 - 116 | | | |
| Ribbon | Height, no backfeed mm at least | 5 | | | |
| | Color layer | outside or inside | | | |
| | Length m max. | 360 | | | |
| Dimensions of a unit | Width x Height x Depth mm | 253 x 191 x 322 | | 264 x 247 x 412 | |
| | Weight kg | 4 | | 5 | |
| Interfaces | RS232-C | | | ■ | |
| | USB for PC | | | ■ | |
| | Ethernet | | | ■ | |
| | Periphery | | | ■ | |
| | USB host | | | ■ | |



See further information on
www.cab.de/en/eos

Accessories



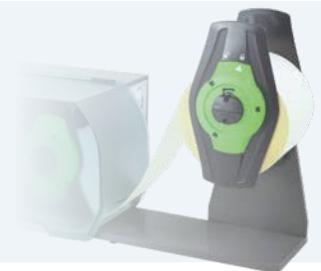
EOS mobile, battery pack included



Cutters



Perforation cutters



External unrollers (EOS 2 only)

MACH 4S label printers



MACH 4S for inserting labels and ribbons from the front.

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

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

■ standard

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



See further information on
www.cab.de/en/mach4s

Types



Tear-off mode



Peel-off mode



Cutter mode

Accessory



External rewinders

SQUIX label printers guiding materials aligned to the left



SQUIX 2 - slim ones for printing small labels



SQUIX 4 - industrial devices providing a wide range of accessories

They find use in various operations. Their development has been focused consistently on intuitive usability and high reliability. Extensive peripherals and software enable custom-designed solutions. The rugged printers suit for any requirement, whether operated stand-alone, with a PC or in a network.

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

■ standard □ option

| Label printer | | SQUIX 2 | | SQUIX 4 | | |
|----------------------|--|----------------------|-----|-----------------|-------|-------|
| Print head | Thermal transfer | | | ■ | | |
| | Direct thermal | □ | - | ■ | ■ | - |
| | Print resolution dpi | 300 | 600 | 203 | 300 | 600 |
| | Print speed mm/s max. | 250 | 150 | 300 | 300 | 150 |
| | Print width mm max. | 56.9 | | 104 | 108.4 | 105.7 |
| Label | Roll, fanfold | | | | | |
| | Roll / core diameters mm | max. 205 / 38.1 - 76 | | | | |
| | Width mm | 4 - 63 | | 20 - 116 | | |
| | Height, no backfeed mm at least | 4 | | 4 | | |
| Ribbon | Color layer | outside or inside | | | | |
| | Length m max. | 600 | | | | |
| Dimensions of a unit | Width x Height x Depth mm | 200 x 288 x 460 | | 252 x 288 x 460 | | |
| | Weight kg | 9 | | 10 | | |
| Interfaces | RS232-C, USB for PC, Ethernet, Periphery, USB host, WLAN | ■ | | | | |
| | Digital I/O interface | □ | | | | |

Accessories



Cutters and perforators



Internal rewinders



External rewinders



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



SQUIX 8 for printing pallet and drum labels

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



See further information on
www.cab.de/en/squix

Accessories



Barcode scanners



Demand modules for marking packages in motion



Applicators

SQUIX label printers guiding materials in centered position



SQUIX 4 M, the precise and flexible ones

SQUIX 4 MT for textile operations

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

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

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

■ standard □ option

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



See further information on www.cab.de/en/squix

Accessories



AXON 2 applicator for labeling tubes or vials

WICON applicator for wrapping labels around cylindrical items

SQUIX UHF RFID label printers



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

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

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

Read / write antennas

On a print head

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

On a feeding unit

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

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

On a print head and on a feeding unit

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

■ standard □ option

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

* in planning



See further information on www.cab.de/en/squix-rfid

Accessories



Cutters and perforation cutters



Stackers providing a cutter



Applicators

XD Q label printers



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

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

Heating can be assigned separately
to each print head.

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

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

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

XD Q label printers integrating an UHF RFID
module are available upon request.

■ standard □ option

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



See further information on
www.cab.de/en/xdq

Accessories



CSQ cutters



PSQ perforation cutters



Stackers providing a cutter

XC Q label printers



XC Q for printing with two colors

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

Heating can be assigned separately to each print head.

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

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

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

■ standard □ option

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



See further information on www.cab.de/en/xcq



Accessories



CSQ cutters



CU cutters (XC Q6 only)

MACH1, MACH2 label printers



MACH1 providing control buttons and LED



MACH2 providing a color LCD display and a navigator pad

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

- Reliable 4" desktop printers in proven technology

- For small to medium print volumes

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

■ standard

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



See further information on
www.cab.de/en/mach1-2

AXON 1 tube labeling system



AXON 1 for reliable tube and vial labeling

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

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

Labeling takes less than two seconds.

Options: warning on a label web ending, barcode verification

■ standard □ option

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



See further information on www.cab.de/en/axon1

Tubes

Vials



HERMES Q print and apply systems



HERMES Q for printing and applying labels automatically in manufacture plants

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

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

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

HERMES Q4 and Q6 integrating an UHF RFID module are options.

■ standard □ option

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

* calculated with a roll diameter 305 mm



See further information on www.cab.de/en/hermesq

Types

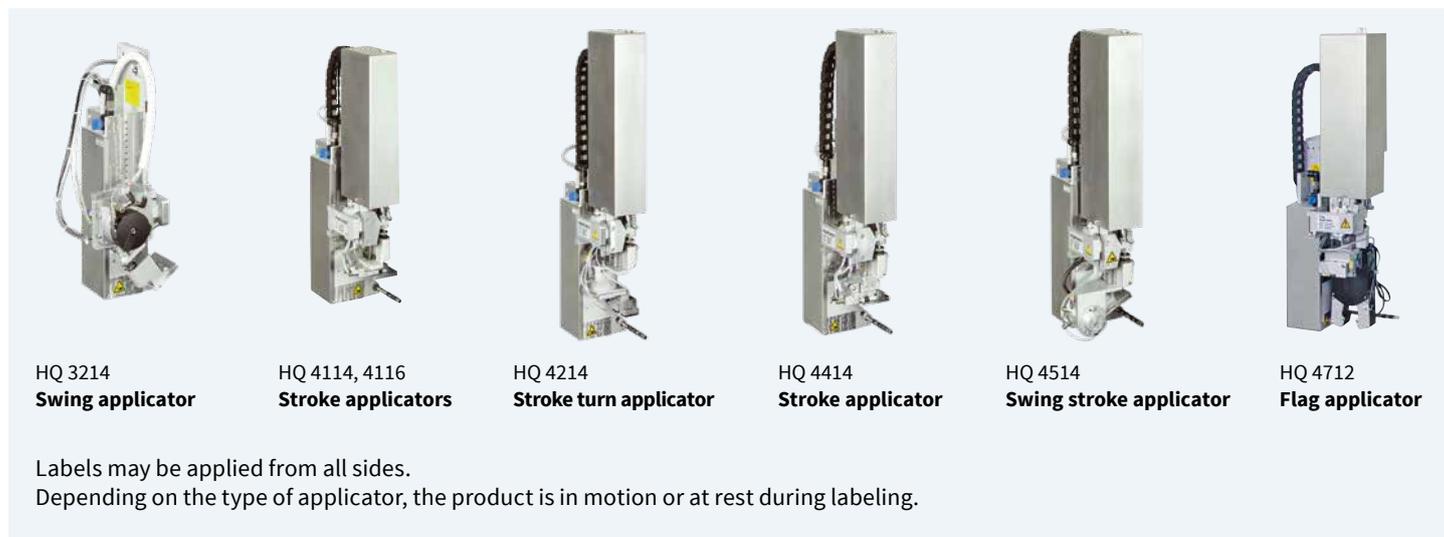


Labels being provided to the left or to the right

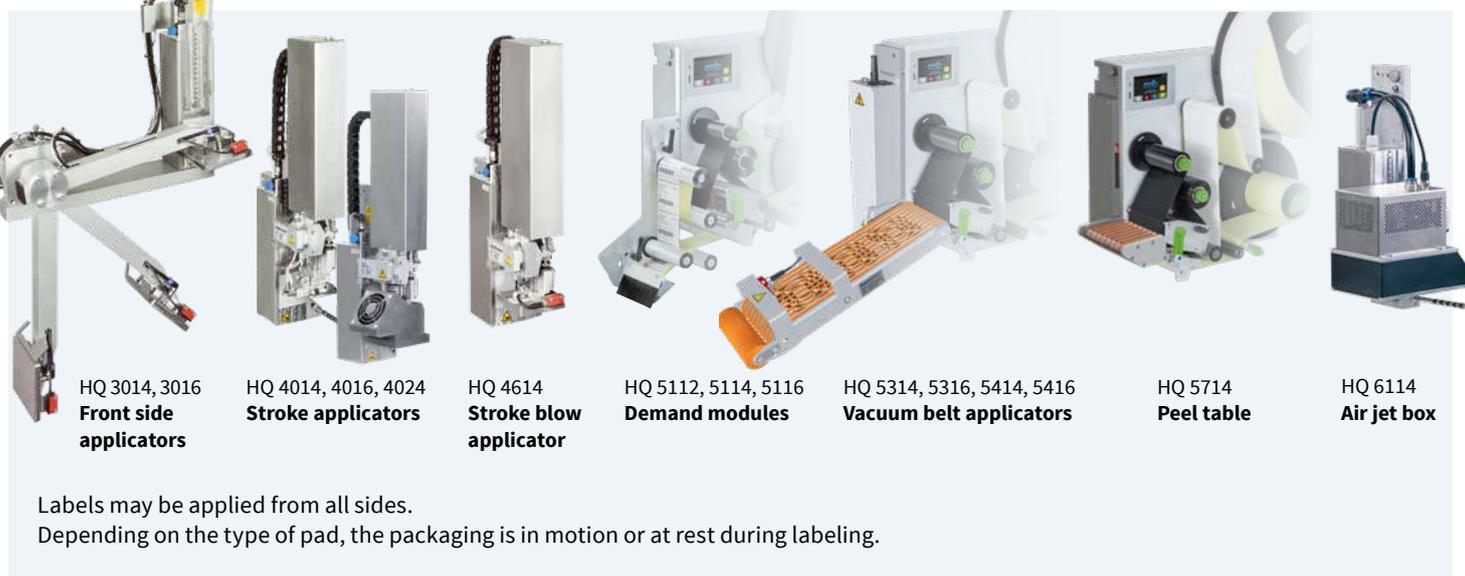


A unit unwinding roll diameters as wide as 305 mm

Applicators for labeling products with HERMES Q

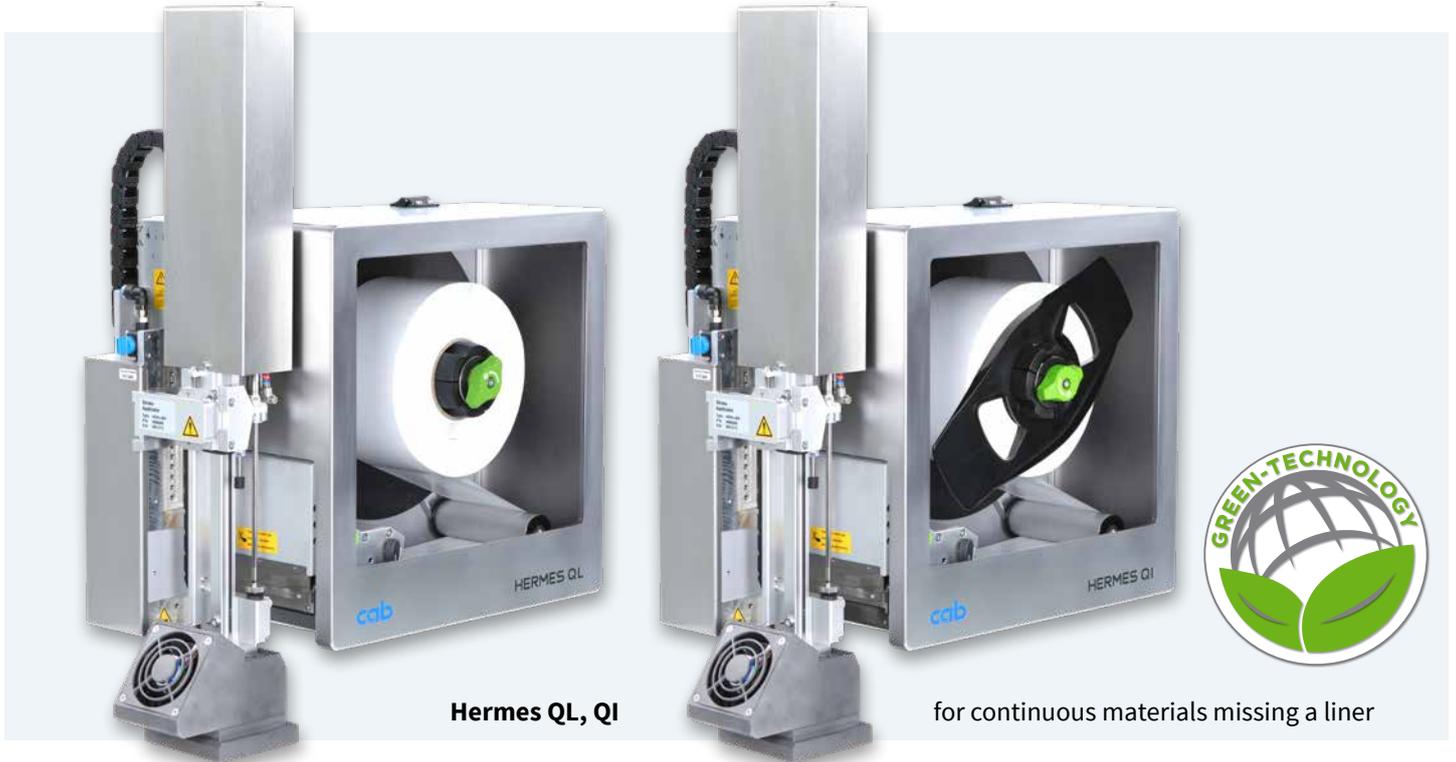


Applicators for labeling packaging with HERMES Q



See further information on
www.cab.de/en/hermesq-applicators

HERMES QL, QI print and apply systems



Hermes QL, QI

for continuous materials missing a liner

Various linerless materials can be processed with a base unit, print rollers and applicators be selected according to an application:

- Linerless (QL) for any kind of application onto packaging in industry and logistics; permanent adhesive
- InNo-Liner (QI) for application onto absorbent cardboard and paper surfaces, in particular shipping labels in logistics; adhesive triggered by water in micro-vaporisation

Disposal of liner materials and associated costs are eliminated.

■ standard □ option

| Print and apply system | | HERMES QL4, QI4 | |
|-----------------------------|-----------------------------------|--|-------|
| Print head | Print method | Direct thermal | |
| | Print resolution | 200 dpi | 300 |
| | Print speed | 250 mm/s max. | 250 |
| | Print width | 104 mm max. | 108.4 |
| Label | Outside roll diameter | 300 mm max. | |
| | Width | 50 - 105 mm | |
| | Height | 30 - 456 mm | |
| Dimensions of a unit | Width x Height x Depth | 260 x 400 x 400 mm | |
| | Weight | 13 / 15.5 cover excluded / included kg | |
| Interfaces | RS232-C | ■ | |
| | USB for PC | ■ | |
| | Ethernet / 2 port Ethernet switch | ■ / □ | |
| | USB host | ■ | |
| | Digital I/O interface | ■ | |
| | Periphery | ■ | |
| | Warning light | via USB host | |



See further information on www.cab.de/en/hermesql

Applicators

- As much as 90 percent savings of compressed air
- Labels of variable heights applied using one tamp-on pad

Labels are sucked by an electrically driven fan. Only the stroke cylinder requires compressed air.



Linerless (QL):
HQ 4024
Stroke applicator
Added by further HQ applicators



InNo-Liner (QI):
HQI 4034
Stroke applicator

Hermes C print and apply systems



GLUTARALDEHYDE SOLUTION 50%

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

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., Glutaraldehyde, CAS 111-98-8

CLASS 8 E2

DANGER: Hazardous Substances Very toxic to aquatic life. May cause respiratory irritation. May cause dizziness or other symptoms on breathing difficulties if inhaled. May cause an allergic skin reaction. Causes severe skin burns and eye damage. Toxic if swallowed or if inhaled. Harmful to aquatic life with long lasting effects. **Prevention:** Avoid breathing dust / fume / gas / mist / vapors / spray. Wear protective gloves / protective clothing / eye protection / face protection. In case of inadequate ventilation wear respiratory protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower. IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician. If experiencing respiratory symptoms call a POISON CENTER or doctor / physician. Store in a well-ventilated place. Keep container tightly closed. Contains 1,5 pentanediol

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Hermes C for printing and applying labels with two colors

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

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



See further information on www.cab.de/en/hermes-c

■ standard

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

* calculated with a roll diameter 305 mm

Applicators

4126C, 4136C
Stroke applicators

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

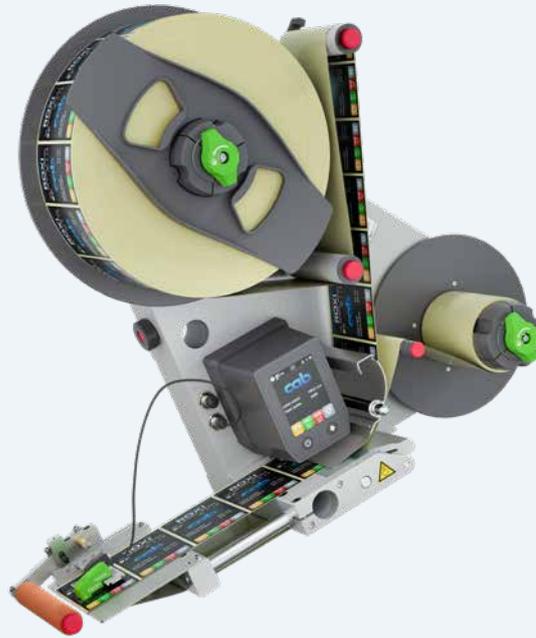


5326C, 5426C
Vacuum belt applicators

Labeling packages or products in motion



ROXI labeling heads



ROXI for label webs running as fast as 30 m/min

One unit for any application

Vertical and horizontal installation, as requested

Protection class IP 40

Cold device socket for power

Ethernet: RJ45

Common features with IXOR+:
Installation dimensions, firmware, user interface, demand modules, wipe-down rollers, sensors, interfaces, accessories, assembly assistance

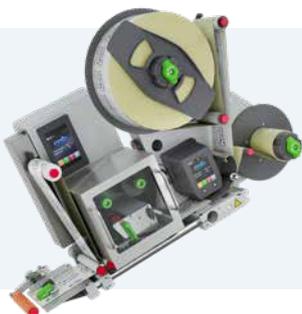
| Width of a roll on ROXI | | mm max. | 60 | 120 | 180 |
|-------------------------|-------------------|-------------|---|----------|----------|
| Label web speed | | m/min max. | 30 | 30 | 30* |
| Label | | on a roll | Paper, synthetics PET, PE, PP, PVC / booklets upon request | | |
| | Width | mm | 10 - 56 | 10 - 116 | 10 - 176 |
| | Length at feeding | mm | 10 - 6,000 | | |
| | Gap | mm at least | 2 | | |
| | Thickness | mm | 0.055 - 1.0 | | |
| Weight of a roll | | kg max. | 12 | | |
| Unwinder | Outside diameter | mm | 310 | | |
| | Core diameter | mm | 76 | | |
| | Winding | | outside or inside | | |
| Rewinder | Outside diameter | mm | 210 | | |
| | Core diameter | mm | 76 | | |
| Interfaces | | | Power plug, cold device socket, USB host, Ethernet, I/O START, SYNC, PRINT & APPLY, STOP | | |

* Calculated using a roll as wide as 180 mm and labels 98 mm long; other dimensions require testing



See further information on
www.cab.de/en/roxi

Peripherals

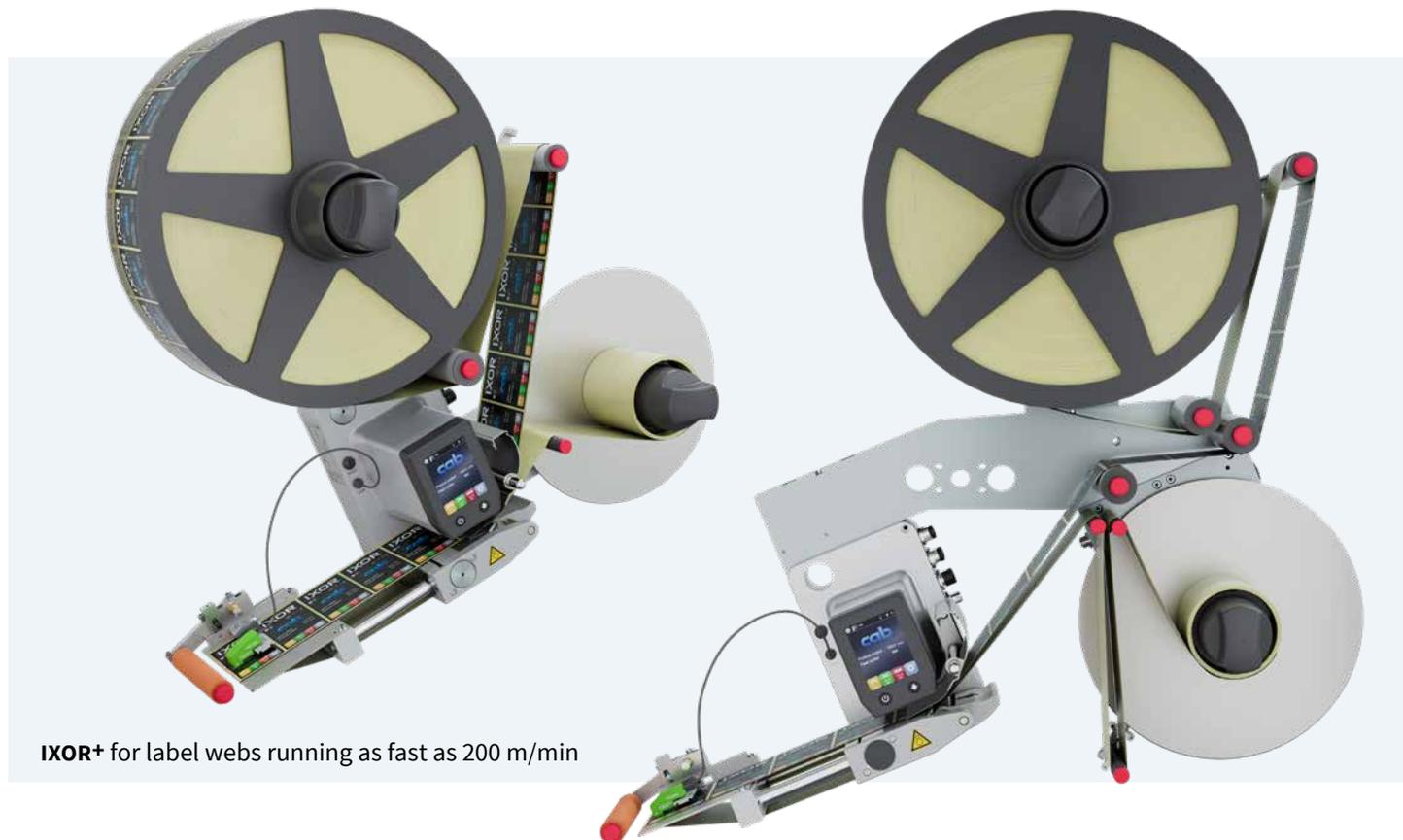


Print module and loop control



HERMES HQ applicators for labeling items at rest

IXOR+ labeling heads



IXOR+ for label webs running as fast as 200 m/min

Modular design; unwinders / rewinders can be assembled independent from a base unit

Vertical installation, taking an extended sleeve retainer into consideration for margin stop

Protection class IP 66

M12 circular connector for power

Ethernet: M12 circular connector

Common features with ROXI:

Installation dimensions, firmware, user interface, demand modules, wipe-down rollers, sensors, interfaces, accessories, assembly assistance

| Width of a roll | | mm max. | 62 | 124 | 186 |
|---------------------------------------|--|---------------------|--|----------|----------|
| Label web speed when operating | | | | | |
| mechanical unwinder, rewriter | | m/min max. | 50 | | |
| mech. unwinder, motoric rewriter | | m/min max. | 75 | | |
| motoric unwinder, rewriter | | m/min max. | 120 (200 upon request) | | |
| Label | | on a roll | Paper, synthetics PET, PE, PP, PVC / booklets upon request | | |
| Width | | mm | 10 - 58 | 10 - 120 | 10 - 182 |
| Length at feeding | | mm | 10 - 6,000 | | |
| Gap | | mm at least | 2 | | |
| Thickness | | mm | 0.055 - 1.0 | | |
| Weight of a roll | | kg max. | 15 | | |
| Unwinder | | Outside diameter mm | mechanical 310, 410 / motoric 410 (510 upon request) | | |
| | | Core diameter mm | 76 | | |
| | | Winding | outside or inside | | |
| Rewriter | | Outside diameter mm | mechanical 210, 290 / motoric 310 (410 upon request) | | |
| | | Core diameter mm | 92 | | |
| Interfaces | | | END/DIM, Ethernet, I/O, START, APPLY, SYNC, POWER IN, WLAN, PRINT & APPLY, STOP Motoric unwinder, rewriter: PowerBus IN, PowerBus OUT | | |



See further information on www.cab.de/en/ixor

Peripherals



Print module and loop control

PX Q print modules



PX Q4 - the universal ones for precise print images

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

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

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

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

■ standard □ option

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



See further information on www.cab.de/en/pxq

Types



Labels being provided to the left or to the right

HS, VS label dispensers



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

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

- Horizontal (**HS**): Labels are peeled off at their bottom edge in upward direction from a liner, to be stuck to a product.

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

“+” models provide a control panel

■ standard

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

* liner material included



See further information on www.cab.de/en/hsvs

Labels, ribbons



Labels as standard or manufactured as required

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



See further information on www.cab.de/en/labels

Reasons for cab label selection

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



cab ribbons, suitable for any application

Reasons for cab ribbon selection

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

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



See further information on www.cab.de/en/ribbons

cablabel S3 software

Design, print, administrate

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



See further information on www.cab.de/en/cablabe

Stand-alone operation

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



Control a printer



Drivers

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



Free download on www.cab.de/en/support



Programming



JScript

cab printers embed JScript language.

Download free manual on www.cab.de/en/programming



abc Basic Compiler

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

Connecting to SAP®

Labels can be printed from SAP* on cab devices and systems. There are various methods:

- Printing with SAPscript
- Printing with SmartForms
- Printing with Adobe Interactive Forms

See instructions in detail on www.cab.de/en/sap

Administrate a printer



Configure on the Intranet and Internet

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



Database Connector

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

* SAP and associated logos are trademarks or registered trademarks of SAP SE.

XENO 4, XENO 4+ marking lasers



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

■ standard □ option

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

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

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

| Marking laser | | XENO 4, XENO 4+, XENO 4S, XENO 4S+ | | | |
|---|-----------------------------|------------------------------------|------------------------|--------------------------|----------|
| Beam source | cw output power | W max. | 20 | 30 | 50 |
| | Pulse energy | mJ | 1 | | |
| | Wave length | nm | 1,064 | | |
| | Beam quality M ² | | <1,8 | | |
| | Pulse width | ns | <120 | | |
| | Pulse repetition frequency | kHz | 20 - 60 | 30 - 60 | 50 - 100 |
| Scan head | Assembly | | horizontal / vertical | | |
| | Speed of marking | mm/s | >5,000 | | |
| Pilot laser | Wave length | nm | 650 | | |
| | cw output power | mW | <1 | | |
| Laser protection class EN60825-1 | Beam source | | Class 4 | | |
| | Pilot laser | | Class 2 | | |
| Interfaces | RS232-C | | ■ | | |
| | Ethernet | | ■ | | |
| | Digital I/O interface | | ■ | | |
| | Remote | | ■ | | |
| | Interlock / E-stop | | ■ | | |
| | Marking on the fly (MOTF) | | □ | | |
| | | | | □ | |
| Rack of 4 height units, 19" | | | | | |
| | | | XENO 4, XENO 4+ | XENO 4S, XENO 4S+ | |
| Dimensions of a unit | Control unit | mm | 420 x 178 x 420 | | |
| | Width x Height x Depth | | | | |
| | Control unit weight | kg | 16 | | |
| | Scan head | mm | 99 x 135 x 205 | 99 x 155 x 265 | |
| | Width x Height x Depth | | | | |
| | Scan head weight | kg | 3 | 4 | |



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



XENO 1, XENO 1+ laser marking systems



XENO 1 - laser marking “out of the box”

XENO 1 is a compact desktop system, demanding little footprint and offering a large work area. It completes the range of cab laser marking systems in the lower price segment. Processing the system complies with high industrial standards.

Marking can be simulated with the pilot laser. Interior LED lighting allows observing a workpiece when the operation door is closed. Jigs can be mounted onto the groove plate. A rotary axis helps with cylindrical objects. The door opens or closes automatically within seconds. Material can be inserted manually or by a handling system from three sides.

| Laser marking system | | | XENO 1, XENO 1+ | |
|----------------------------------|-----------------------------|------------|---|---------|
| Beam source | Beam source | | | |
| | cw output power | W max. | 20 | 30 |
| | Pulse repetition frequency | | | |
| | XENO 1 (RAYCUS) | kHz | 20 - 60 | 30 - 60 |
| | XENO 1+ (IPG) | kHz | 2 - 500 | |
| | Pulse energy | mJ | 1 | |
| | Wave length | nm | 1,064 | |
| Pilot laser / focus finder | Beam quality M ² | | < 1,8 | |
| | Pulse width | ns | < 120 | |
| | Wave length | nm | 650 | |
| | cw output power | mW | < 0.4 | |
| Work area | Height | mm | 100 / 200 | |
| | Z axis | | | |
| Z axis | Traversing speed | mm/s | 20 | |
| | Position accuracy | mm | ±0.1 | |
| Laser protection class EN60825-1 | | | Class 1 | |
| Interfaces | Work area | | Rotary axis | |
| | Back of a unit | | Digital I/O interface Ethernet TCP/IP 24 V for digital I/O interface Extraction and filter system External start External e-stop | |
| Dimensions of a unit | Width x Height x Depth | mm | 580 x 660 x 700 | |
| | Weight | kg approx. | 65 | |



See further information on
www.cab.de/en/laser

XENO 3, XENO 3+ laser marking systems



XENO 3 collects plates by stacking as high as 50 mm.

XENO 3 is an integrated laser system for marking metal and plastic plates permanently. Due to compact design and a small footprint, XENO 3 fits with desktop operations.

Markings applied by a XENO 3 remain clearly legible even in the long term in rough surroundings. Hydraulic cylinders, engines, pumps, gears, vehicle chassis oder system components are typical items to be marked. Replace magazines enable to process different plate sizes. XENO 3 in particular suits for metal engravings and ablation of top layers.

| Laser marking system | | | XENO 3, XENO 3+ | |
|----------------------------------|-----------------------------|------------|------------------------------|---------|
| Beam source | cw output power | W max. | 20 | 30 |
| | Pulse repetition frequency | | | |
| | XENO 3 (RAYCUS) | kHz | 20 - 60 | 30 - 60 |
| | XENO 3+ (IPG) | kHz | 2 - 500 | |
| | Pulse energy | mJ | 1 | |
| | Wave length | nm | 1,064 | |
| | Beam quality M ² | | < 1,8 | |
| Pilot laser / fokus finder | Pulse width | ns | < 120 | |
| | Wave length | nm | 650 | |
| Plate | cw output power | mW | < 0,4 | |
| | Width x Height | mm | from 40 x 20 to 120 x 100 | |
| Laser protection class EN60825-1 | | | Class 1 | |
| Interfaces | Back of a unit | | Ethernet TCP/IP | |
| | | | Extraction and filter system | |
| Dimensions of a unit | | | External start | |
| | | | External e-stop | |
| | Width x Height x Depth | mm | 420 x 480 x 480 | |
| | Weight | kg approx. | < 35 | |



Marking can be observed through the protection window and with the help of the lit interior. Fold-out carry handles simplify the installation of the system.

LSG+100E laser safety housings



LSG+100E laser safety housing

■ standard

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

| Laser safety housing | | LSG+100E 230 V | LSG+100E 120 V |
|----------------------|----------------------------------|--------------------------|----------------|
| | Work area | 980 x 460 x 980 | |
| | Width x Height x Depth | mm | |
| | Traversing speed | mm/s max. 60 | |
| Dimensions of a unit | Position accuracy | mm 0.02 | |
| | Width x Height x Depth | mm 1,000 x 2,280 x 1,120 | |
| | Weight | kg 395 | |
| Interfaces | Digital I/O XENO 4 | ■ | |
| | Remote XENO 4 | ■ | |
| | E-stop XENO 4 | ■ | |
| | Stepper motor, axes Z, X, rotary | ■ | |
| | Extraction and filter system | ■ | |



See further information on www.cab.de/en/laser



A large setup door allows easy access. Jigs may be assembled comfortably to the grooved plate in the well-lit work area.

LM+ laser label marker



LM+ laser label marker

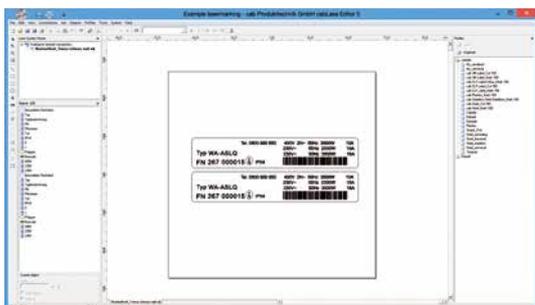
Labels of different sizes, made of laser-markable film, can be precisely marked directly from a roll with a LM+. They can be cut without the need of additional tools, be separated by a cutter or rewound by an external device after marking.

■ standard

| Laser label marker | | LM+160.2 | LM+254.2 |
|----------------------|------------------------|-------------------------------|----------|
| Label | Work area | 160 x 5 x 190 | |
| | Width x Height x Depth | mm | |
| | Traversing speed | 200 | |
| | Position accuracy | 0.2 | |
| Label | Outside roll diameter | 300 | |
| | Roll winding | outside (inside upon request) | |
| | Width | 25 - 120 | |
| | Height | 180 | |
| Dimensions of a unit | Width x Height x Depth | 440 x 520 x 802 | |
| | Weight | 22 | |
| Interfaces | RS232-C XENO 4 CON5 | ■ | |
| | E-stop XENO 4 | ■ | |
| | External e-stop | ■ | |
| | Cutter | ■ | |



See further information on
www.cab.de/en/laser



cabLase marking software

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



See further information on
www.cab.de/en/cablase

At home in any industry

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



Operations

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

Customers

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



“We set milestones in the development and manufacturing of units and systems for product marking.”
Roman Schneider
Head of Software Development



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