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# Label printers for industrial operation





# Key features



**SQUIX** label printers for industrial operation

They find use in various areas of use.

They have been developed with consistent focus on intuitive usability and highly reliable processing.

Print mechanics and chassis are made of high-quality materials and match perfectly in design and function.

A wide range of peripherals and software enable user-specific solutions.

The rugged printers stand up to any demand, whether operated stand-alone, with a PC or in a network.

Print jobs are performed quickly and labels are provided straight away thanks to a high-speed processor.

- Reliable and quick printing
- Accurate print images
- Easy to operate
- Compact design
- Maximum quality standards

# Sample applications

PCB Type plates Cardboard and pallets







# Label printers guiding materials aligned to the left

Optimum printing in matters of different widths and materials



#### Slim ones

for printing small labels

| Label printer    | squ       | IIX 2 |      |
|------------------|-----------|-------|------|
| Print resolution | dpi       | 300   | 600  |
| Print speed      | mm/s max. | 250   | 150  |
| Print width      | mm max.   | 56.9  | 54.1 |



#### **Universal ones**

Best-selling industrial units, providing a wide range of accessories

| Label printers   | SQUI      | X 4.3 | SQU   | IIX 4 |       |
|------------------|-----------|-------|-------|-------|-------|
| Print resolution | dpi       | 203   | 300   | 300   | 600   |
| Print speed      | mm/s max. | 300   | 300   | 300   | 150   |
| Print width      | mm max.   | 104   | 108.4 | 105.7 | 105.7 |

A cutter can be provided integral to a basic unit.



#### **Wide ones**

for printing Odette, UCC and GS1 labels in logistics operations

| Label printer    | squi      | X 6.3 |       |
|------------------|-----------|-------|-------|
| Print resolution | dpi       | 203   | 300   |
| Print speed      | mm/s max. | 250   | 250   |
| Print width      | mm max.   | 168   | 162.6 |



# Extra wide ones

for printing pallet and drum labels

| Label printer    |           | SQUIX 8.3 |
|------------------|-----------|-----------|
| Print resolution | dpi       | 300       |
| Print speed      | mm/s max. | 150       |
| Print width      | mm max.   | 216       |



# Basic units provide a tear-off plate

Printed labels or continuous materials, wound on a roll or fanfold, can be torn off on a jagged plate. Cutting a material is another option, so is external rewinding.



# Peel-off units provide an internal rewinder

Dispense adds to the features of a basic unit. Printed labels are peeled off their liner and can be removed by hand or by an applicator.

# Label printers guiding materials aligned to the left



# 1 Hinged cover

Material stock can be checked and printer processes be followed through a large panoramic window.

#### 2 Plungers

One is fixed next to the chassis inside. The other can be aligned to the outside margin of a label for optimum print images.

#### 3 Metal chassis

It is the base to assemble components. Made of cast aluminum

#### Print roller coating

Synthetic rubber is standard, enabling highly accurate print images. Silicone is an option if aiming for extra long life cycles.

#### **5** Label dispense

Labels are separated on a peel-off plate from their liner. A powered guide roller and a pinch roller enable highly accurate processes when printing and applying labels.

### **6** Peripheral port

Additional modules can be plugged easily and quickly to a unit and fixed with a screw.

# 7 Ribbon retainer

Replacing a ribbon is no big deal thanks to three-part clamping axles.

#### 8 Roll retainer

The spring-mounted margin stop provides a screw cap and enables constant tension while materials are fed.

#### Internal rewinder

Labels or liners with or without a cardboard core can be wound on peel-off units. Handling a material is simplified by a three-part clamping axle.

#### 10 Rocker

Spring mounting and guide rollers made of Teflon reduce traction and improve the accuracy of print images.

#### 11 Material guide

It is assembled to the rocker. By turning the rotary knob, the stop can be aligned to the margin of a label.

# Print image accuracy

The smaller a label, the higher are the demands. Print offset can be reduced by  $\pm 0.2$  mm using slip correction.

# Direct thermal printers guiding materials aligned to the left

# 1.9, 1.10

Basic unit



Peel-off unit

# Designed for long life cycles

# SQUIX 4.3 TD - Basic unit providing a tear-off plate

Printed labels or continuous materials, wound on a roll or fanfold, can be torn off on a jagged plate. Cutting a material is another option, so is external rewinding.

# SQUIX 4.3 PTD - Peel-off unit providing an internal rewinder

Dispense adds to the features of a basic unit. Printed labels are peeled off their liner and can be removed by hand or by an applicator.

| Direct thermal printer | ect thermal printer |     |       |  |
|------------------------|---------------------|-----|-------|--|
| Print resolution       | dpi                 | 203 | 300   |  |
| Print speed            | mm/s max.           | 250 | 250   |  |
| Print width            | mm max.             | 104 | 108.4 |  |

# Differences to other label printers guiding materials aligned to the left

#### Plungers

Pressing force has been reduced to extend the life cycle of a print head. Other than standard, these plungers are black.

#### 2 Print head 4.3

Highly durable for direct thermal operation

# 3 DRS print rollers

Silicone coating for extra long life cycles, accepting higher tolerances in print image accuracy



SQUIX 4.3/300PTD direct thermal printer, peel-off unit providing an internal rewinder

# Label printers guiding materials in centered position

# 1.11, 1.12

Basic unit

#### . . ..

Peel-off unit

#### The precise and flexible ones

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 sensor allows round or oval hoses as high as 5 mm be labeled.

| Label printer    |           | _   | 4.3 M<br>4.3 MP | SQUIX 4 M<br>SQUIX 4 MP |       |  |
|------------------|-----------|-----|-----------------|-------------------------|-------|--|
| Print resolution | dpi       | 203 | 300             | 300                     | 600   |  |
| Print speed      | mm/s max. | 300 | 300             | 300                     | 150   |  |
| Print width      | mm max.   | 104 | 108.4           | 105.7                   | 105.7 |  |



guiding materials aligned to the left

#### 1 Ribbon retainer

A ruler helps ribbons be set.

#### 2 Plungers

Both have been assembled firmly for all widths of material. There is no need of aligning the print head.

#### 3 Roll retainer

By applying the margin stop, rolls are automatically centered.

# 4 Material guide

Its position next to the print roller supports print images be accurate. Widths are set with the help of a spindle.

#### 5 Slim print rollers

If small materials and ribbons are in use, adapted print rollers are required to achieve accurate print results. They prevent rollers from wear, print heads from contamination and avoid errors while materials are fed.

Synthetic rubber coating



SQUIX 4 MP peel-off printer providing an internal rewinder



# UHF RFID label printers guiding materials in centered position



# Label printers providing an integral UHF RFID module

An antenna is assembled to the print head. RFID tags are written and read immediately before the labels are printed. In the event of errors, labels are indicated as invalid.

Optimized antennas add to the different RFID tags:

- 1) Standard for regular RFID tags
- 2) On metal for RFID tags applied to metal surfaces
- High sensitivity for small RFID tags demanding high signal requirements

The RFID modules already qualify for various RFID tags. Further will be added as required. cab as well supports user-specific applications.

A wide range of peripherals and software enable with a SQUIX printer optimum solutions.

| Label printer    |           | squix | 4.3 M<br>4.3 MP<br>RFID | SQUIX 4 M<br>SQUIX 4 MP<br>UHF RFID |       |  |
|------------------|-----------|-------|-------------------------|-------------------------------------|-------|--|
| Print resolution | dpi       | 203   | 300                     | 300                                 | 600   |  |
| Print speed      | mm/s max. | 300   | 300                     | 300                                 | 150   |  |
| Print width      | mm max.   | 104   | 108.4                   | 105.7                               | 105.7 |  |

# Tag calibration

A special calibration feature identifies for many regular RFID tags optimum read/write positions and performances.

Characteristic calibration graphs can be printed in accordance with a label profile.

# Tag contents read on-the-fly

Contents such as TID, EPC and user memory can be read **on the fly** on a RFID printer and displayed by the GUI.

# Further features are

statistics,

numbers of permitted read/write errors, void labels (i.e. labels indicated as invalid).







SQUIX 4 M UHF RFID label printer

# Label printers guiding materials in centered position and providing a separator



#### For textile operations

If operations require high heating, a ribbon may stick with the textile tape after printing. A draw roller separates the ribbon reliably from a material.

Labels and continuous materials wound on rolls or reels may be as well printed.
Plungers do not have to be aligned for setting the width of a label.
Adapted print rollers are provided for slim materials.

| Label printers   |           | SQUIX 4.3 MT | SQUIX | ( 4 MT |
|------------------|-----------|--------------|-------|--------|
| Print resolution | dpi       | 300          | 300   | 600    |
| Print speed      | mm/s max. | 300          | 300   | 150    |
| Print width      | mm max.   | 108.4        | 105.7 | 105.7  |

# Differences to other label printers guiding materials in centered position 1 Antistatic brush It dissipates electrostatic charge after printing, in particular if synthetic materials are in use. 2 Separator If operations require high heating, a ribbon may stick with the textile tape after printing. A draw roller separates the ribbon reliably from a material.

SQUIX 4 MT label printer providing a separator built in

# Control panel

Self-explanatory symbols simplify settings and enable printers be operated intuitive and easily.

- 1 LED: Power ON
- Status bar: receive data, record data stream, prior warning to a ribbon ending, SD memory card / USB stick plugged, Bluetooth, WLAN, Ethernet, USB slave, time
- Printer status: ready, pause, number of labels printed in a print job, label peeled off, awaiting external start signal
- USB port for plugging a service key or a memory stick, to transfer data to the IFFS memory
- Operation

Cutter / perforation cutter: cutting

> External rewinder: outside or inside winding

Tear-off mode / peel-off mode: printing a label

Applicator: printing and applying a label in individual steps

Jump to menu

Reprint last label

Stop and delete all print jobs

Label feed

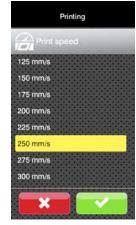
Interrupt and continue print job













Setup **Print parameters** 

**Print position Y** 

**Print speed** 

Video tutorials

# External control panel

If the control panel of a printer cannot be accessed, an additional external one can be plugged.

Same functionality as on a printer

Landscape mode or portrait mode

Operability as targeted, either on an external panel or on a printer

USB 2.0 Hi-Speed device for plugging a printer

- 1 LED: Power ON
- 2 USB port for plugging a service key or a memory stick, to transfer data to the IFFS memory
- 3 cab provides specified **USB cables** for power supply. Lengths are 1.8 m to 16 m



# Print heads



# A print head can be replaced by any other one, provided they are of equal width. They are detected by the CPU and calibrated.

Major data such as operational performances, maximum operational temperatures and heating are kept in memory by the print head. The data can be read at the premise.

#### Print heads provided for SQUIX 2, SQUIX 4 - 300, 600 dpi

sharp-edged print images small fonts, graphics on typeplates printing on materials that imply high energy needs

# Print heads provided for SQUIX 4.3, SQUIX 6.3 - 203, 300 dpi Print heads provided for SQUIX 8.3 - 300 dpi

durable, printing in harsh environments, direct thermal printing

# Print rollers



#### Types of material:

#### DR print rollers

Synthetic rubber coating highly accurate print images standard

#### **DRS print rollers**

Silicone coating extra long life cycles, accepting higher tolerances in print image accuracy

# **Interfaces**



- 1 Port for plugging a SD memory card
- 2 USB hosts for plugging a service key, an USB stick, a keyboard, barcode scanner, an USB Bluetooth adapter, USB WLAN stick, external control panel
- 3 USB 2.0 Hi-Speed device for plugging a PC
- 4 Ethernet 10/100 Mbit/s
- **5 RS232-C** 1,200 to 230,400 baud / 8 bit

Option

**o** Digital I/O interface

Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.

Compliant to IEC/EN 61131-2, type 1+3
The inputs and outputs are galvanically isolated and protect from reverse polarity.
The outputs are also short-circuit-proof.

PNP inputs PNP, NPN outputs

Start printing / applying label Unit ready

Print first label Print data available
Reprint Initial / upper end position

Delete print job Paper feed ON Label removed Label peeled off

Stop printing /applying label Label apply / lower end position

Pause Ribbon ending Reset Collective error

# Technical data

|   |   |                        |                   |        |                |                   |            |             |                      | ypical C                 |         |                    | ·                        |
|---|---|------------------------|-------------------|--------|----------------|-------------------|------------|-------------|----------------------|--------------------------|---------|--------------------|--------------------------|
| Materials guid  | ed aligned to the left                                      | Туре                   | 1.1,<br><b>SQ</b> |        |                | 1.3,<br>UIX<br>.3 | SQI        |             | SQ                   | UIX<br>B TD              | sQ      | , 1.6<br>UIX<br>.3 | 1.7, 1.8<br>SQUIX<br>8.3 |
| Print method  | Thermal transfer<br>Direct thermal                          |                        | 0                 | -      | •              | •                 | 0          | •           | -                    | -                        | •       | •                  | •                        |
| Print resolution  |   | dpi                    | 300               | 600    | 203            | 300               | 300        | 600         | 203                  | 300                      | 203     | 300                | 300                      |
| Print speed   |   | mm/s max.              | 250               | 150    | 300            | 300               | 300        | 150         | 250                  | 250                      | 250     | 250                | 150                      |
| Print width   |   | mm max.                | 56.9              | 54.1   | 104            | 108.4             | 105.7      | 105.7       | 104                  | 108.4                    | 168     | 162.6              | 216                      |
| Initial print   | Distance to locating edge                                   | mm                     |                   | 2      | 2.8            | 1.2               | 2          | 2           | 2.8                  | 1.2                      | 0.5     | 3.2                | 2                        |
| Material <sup>1)</sup>                                      |   |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| Paper, cardboard,   | PP, PI, PVC, PU, acrylate, Tyvec                            |                        |                   |        |                |                   |            |             |                      | -                        | (       |                    | •                        |
| Direct thermal pape   |   |                        | 0                 | _      |                |                   | 0          | _           | •                    | •                        | •       |                    | •                        |
| Shrink tube   | ready for use   |                        |                   | _      |                |                   |            |             |                      | -                        |         | -                  |                          |
|   | continuous, pressed   |                        |                   | )      |                |                   | )          |             |                      | -                        |         | -                  | -                        |
| Textile tape  |   |                        | (                 | )      |                |                   | )          |             |                      | -                        |         | -                  | _                        |
| Finishing   | Roll, fanfold   |                        |                   |        |                |                   |            |             |                      | •                        | (       | •                  | •                        |
|   | Roll diameter   | mm max.                |                   |        |                |                   |            | 20          |                      |                          |         |                    |                          |
|   | Core diameter   | mm                     |                   |        |                |                   |            | 38.1        |                      |                          |         |                    |                          |
| Label   | Winding<br>Width  | mm                     | 4 -               | 63     |                |                   | 20 -       | outside     | or inside            |                          | 16      | 176                | 46 - 220                 |
| Lauei   | Migth<br>Height no label backfeed <sup>2)</sup>             | mm<br>mm at least      |                   |        |                |                   | 20 -<br>1  | 110         | 1                    | LO                       |         | 6                  | 46 - 220<br>25           |
|   | label backfeed <sup>2)</sup>                                | mm at least            | 4                 |        |                |                   | 5          |             |                      | 10                       |         | .2                 | 25                       |
|   | label backfeed, peel-off                                    |                        |                   | ·<br>5 |                |                   | 5          |             |                      | 20                       |         | .2                 | 25                       |
|   | Thickness   | mm                     |                   |        | 0.03           | 3 - 0.6           |            |             | 0.05                 | 5 - 0.1                  | 0.03    | - 0.6              | 0.05 - 0.6               |
| Liner   | Width   | mm                     | 24 -              | - 67   |                |                   | 120        |             | 24 -                 | - 120                    | 50 -    | 180                | 50 - 235                 |
|   | Thickness   | mm                     |                   |        | 0.03           | - 0.16            |            |             |                      | 5 - 0.1                  |         | - 0.16             | 0.05 - 0.16              |
| Continuous  | Width   | mm                     | 24 -              | - 67   |                | 24 -              | 120        |             |                      | - 120                    | 50 -    | 180                | 50 - 235                 |
|   | Thickness   | mm                     |                   |        |                |                   |            | 0.05 - 0.5  |                      |                          |         |                    |                          |
| Shrink tube   | Weight (cardboard) Width ready for use                      | g/m² max.<br>mm max.   | _                 |        |                | 11                | 20         | 30          |                      | _                        |         | _                  |                          |
| Sillink tube  | continuous, pressed   |                        | 24                |        | 120<br>24 - 85 |                   |            |             | _                    |                          |         |                    |                          |
|   | Thickness   | mm<br>mm max.          | 1                 |        |                | 1                 |            |             |                      | _                        |         | _                  | _                        |
| Ribbon <sup>3)</sup>  | Color layer   |                        |                   |        | outside        | or inside         |            |             |                      | -                        | outside |                    | or inside                |
|   | Roll diameter mm ma   |                        | 80                |        |                |                   |            |             |                      |                          |         |                    |                          |
|   | Core diameter   | mm                     |                   | 25.4   |                |                   |            |             | -                    |                          | 25      |                    |                          |
|   | Length  | m max.                 |                   |        | 6              | 00                |            |             |                      | -                        |         | 00                 | 360                      |
| Internal rewinder   | Width   | mm                     | 25                | -67    |                | 25 -              | 114        |             |                      | _                        | 50 -    | 170                | 220                      |
| Outside diameter  | provided on peel-off units                                  | mm max.                |                   |        |                |                   |            | 14          | 12                   |                          |         |                    |                          |
| Core diameter   |   | mm                     |                   |        |                |                   |            | 4           |                      |                          |         |                    |                          |
| Winding   |   |                        |                   |        |                |                   |            | out         | side                 |                          |         |                    |                          |
| <b>Printer dimension</b>                                    | s, weights  |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| Width x Height x De   | pth   | mm                     | 200 x 28          |        |                |                   | 252 x 28   | 38 x 460    |                      |                          | 312 x 2 | 88 x 460           | 352 x 288 x 46           |
| Weight  |   | kg                     | Ś                 | 9      |                | 1                 | 0          |             | 9                    | 0.8                      | 1       | .4                 | 15                       |
| Label sensors, pos  |   | datastina              |                   | la     | hala nun       | ch marks          | matarial   | c andina    | nrint m              |                          | nalusan | t material         | c 4)                     |
| Transmissive senso<br>Reflective sensor                     | from below or top   | detecting<br>detecting |                   | la     |                |                   |            |             |                      | on-translı               |         |                    | 5 7                      |
| Sensor distance   | · · · · · · · · · · · · · · · · · · ·                       | the left mm            | 5 -               | 26     | labets         |                   | 60         | , print inc |                      | - 60                     |         | 60                 | 5 - 60                   |
| Material passage  | 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -                     | mm max.                |                   |        |                |                   |            | 2 (5 are a  |                      |                          |         |                    |                          |
| Interfaces  |   |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| RS232-C 1,200 to 23   | 30,400 baud / 8 bit   |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| USB 2.0 Hi-Speed d  | evice for plugging a PC                                     |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| Ethernet 10/100 Mb  | nit/s   |                        |                   |        |                |                   |            |             |                      | ce, OPC U<br>Zeroconf, : |         |                    |                          |
| 1 USB host on the c   | •   | for plugging           |                   |        |                |                   |            |             |                      | k, USB Blu<br>tick, USB  |         |                    |                          |
| 2 USB hosts on the  |   | for plugging           |                   | USB    |                |                   |            | ına, USB I  | Bluetoot             |                          |         | l control p        | anel                     |
|   | or peripheral plugging<br>eproviding 8 inputs and 8 outputs |                        |                   |        |                |                   |            |             |                      |                          |         |                    |                          |
| Operating data  |   |                        |                   |        |                |                   |            | 0.45        | 50/51                | DE-2                     |         |                    |                          |
| Voltago   | wor   |                        |                   |        |                | .40               |            | 240 VAC,    |                      | •                        | tion    |                    |                          |
|   |   |                        |                   |        |                |                   |            |             |                      | ical opera<br>Indensing  |         |                    |                          |
| Consumption of po   |   |                        |                   |        |                |                   |            |             |                      | ndensing<br>Indensing    |         |                    |                          |
| Consumption of po<br>Temperature /                          | Operation<br>Stock  |                        |                   |        |                |                   | 0 00 0     | , 20 00     | ,                    |                          |         |                    |                          |
| Voltage<br>Consumption of po<br>Temperature /<br>humidity   | Stock   |                        |                   |        |                |                   | -25 - 60°C | 20-85       | %, not co            | ondensing                |         |                    |                          |
| Consumption of po<br>Temperature /<br>humidity              |   |                        |                   |        |                |                   |            | •           |                      | ondensing<br>B, CoC Me   |         |                    |                          |
| Consumption of po<br>Temperature /<br>humidity<br>Approvals | Stock   |                        |                   |        |                |                   | CC Class   | •           | cULus, C             | B, CoC Me                |         |                    |                          |
| Consumption of po<br>Temperature /                          | Stock<br>Transport  | 11                     |                   |        |                |                   | CC Class   | A, ICES-3,  | cULus, C<br>BSMI, KC | B, CoC Me                |         |                    |                          |

Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.
 if labels are torn off, cut, rewound
 A ribbon should be at least as wide as the liner material.
 Print marks on translucent materials are not possible if operating a SQUIX 4.3 TD

# Technical data

| Materials gui   |  |                   |        | 1 11       | 1.12      |           |                         | 1.13                      | 1 14                              |                         |                 | 15                |           |
|---|--|-------------------|--------|------------|-----------|-----------|-------------------------|---------------------------|-----------------------------------|-------------------------|-----------------|-------------------|-----------|
|   | Materials guided in centered position Type |                   |        | UIX<br>3 M | SQ        | UIX<br>M  | _                       | X 4.3 M<br>RFID           | SQUI                              | X 4 M<br>RFID           | SQUIX<br>4.3 MT | SQ                | UIX<br>MT |
| Print method  | Thermal transfer                           |                   | •      | •          | •         | •         | •                       | •                         | •                                 | •                       | •               | •                 | •         |
|   | Direct thermal                             |                   | •      | •          | 0         | -         | •                       | •                         | 0                                 | -                       | •               | 0                 | -         |
| Print resolution  |  | dpi               | 203    | 300        | 300       | 600       | 203                     | 300                       | 300                               | 600                     | 300             | 300               | 600       |
| Print speed   |  | mm/s max.         | 300    | 300        | 300       | 150       | 300                     | 300                       | 300                               | 150                     | 300             | 300               | 150       |
| Print width   |  | mm max.           | 104    | 108.4      | 105.7     | 105.7     | 104                     | 108.4                     | 105.7                             | 105.7                   | 108.4           | 105.7             | 105.      |
| nitial print  | Distance to locating edge                  | mm                |        |            |           |           |                         | cent                      | ered                              |                         |                 |                   |           |
| Material <sup>1)</sup>  |  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Paper, cardboard,<br>synthetics PET, PE                                   | ,<br>E, PP, PI, PVC, PU, acrylate, Tyvec   |                   |        |            |           |           |                         | •                         |                                   |                         |                 | •                 |           |
| Direct thermal pap  | per / cardboard                            |                   | •      | •          | 0         | -         | •                       | •                         | 0                                 | -                       | •               | 0                 | -         |
| RFID labels accord  | ling to separate specification             |                   | -      | -          | -         | _         | •                       | •                         | •                                 | •                       | _               | _                 | -         |
| Shrink tube   | ready for use                              |                   |        |            |           |           |                         |                           |                                   |                         |                 | 0                 |           |
|   | continuous, pressed                        |                   |        |            |           |           |                         |                           |                                   |                         |                 | 0                 |           |
| Textile tape  | •  |                   |        |            | )         |           |                         |                           | )                                 |                         |                 | •                 |           |
| Finishing   | Roll, fanfold                              |                   |        |            |           |           |                         |                           |                                   |                         |                 | •                 |           |
|   | Roll diameter                              | mm max.           |        |            | -         |           |                         | 20                        | )5                                |                         |                 |                   |           |
|   | Core diameter                              | mm                |        |            |           |           |                         | 38.1                      |                                   |                         |                 |                   |           |
|   | Winding                                    | 111111            |        |            |           |           |                         | outside                   |                                   |                         |                 |                   |           |
| Lahal   |  | mm                |        | 4          | 110       |           |                         |                           |                                   |                         |                 | 110               |           |
| Label   | Width                                      | mm<br>mm at least |        | 4 -        |           |           |                         | 4 -                       |                                   |                         | 4               | - 110             |           |
|   |  | mm at least       |        |            | 3         |           |                         |                           | 3                                 |                         |                 | 4                 |           |
|   |  | mm at least       |        |            | 1         |           |                         | 4                         |                                   |                         |                 | 6                 |           |
|   | label backfeed, peel-off                   | mm at least       |        | (          | 5         |           |                         | (                         | 5                                 |                         |                 | -                 |           |
|   | Thickness                                  | mm                |        |            |           |           |                         | 0.03                      | - 0.6                             |                         |                 |                   |           |
| Liner   | Width                                      | mm                |        | 9 -        | 114       |           |                         | 9 -                       | 114                               |                         | 9               | - 114             |           |
|   | Thickness                                  | mm                |        |            |           |           |                         |                           | 0.16                              |                         |                 |                   |           |
| Continuous  | Width                                      | mm                |        | 9 -        | 114       |           |                         | 9 -                       |                                   |                         | Q.              | - 114             |           |
|   | Thickness                                  | mm                |        | 3          |           |           |                         | 0.05                      |                                   |                         | 3               |                   |           |
|   |  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Cl  | Weight (cardboard)                         | g/m² max.         |        |            |           |           |                         | 30                        |                                   |                         |                 |                   |           |
| Shrink tube   | Width ready for use                        |                   |        |            | 14        |           |                         | 1:                        |                                   |                         |                 | 114               |           |
|   | continuous, pressed                        | mm                | 4 - 85 |            |           | 4 - 85    |                         |                           |                                   | 4 - 85                  |                 |                   |           |
|   | Thickness                                  | mm max.           |        | 1          | .1        |           |                         | 1                         | .1                                |                         |                 | 1.1               |           |
| Hose  | continuous, round or oval max.             | . height mm       |        | į          | 5         |           |                         |                           |                                   |                         |                 | -                 |           |
| Ribbon³)  | Color layer                                |                   |        |            |           |           |                         | outside                   | or inside                         |                         |                 |                   |           |
|   | Roll diameter                              | mm max.           | . 80   |            |           |           |                         |                           |                                   |                         |                 |                   |           |
|   | Core diameter                              | mm                |        |            |           |           |                         | 25                        | 5.4                               |                         |                 |                   |           |
|   | Length                                     | m max.            |        |            |           |           |                         | 60                        | 00                                |                         |                 |                   |           |
|   | Width                                      | mm                |        |            |           |           |                         | 25 -                      |                                   |                         |                 |                   |           |
| Internal rewinde  | er provided on peel-off units              |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Outside diameter  |  | mm max.           |        |            |           | 1         | 42                      |                           |                                   |                         |                 | _                 |           |
|   |  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Core diameter   |  | mm                |        |            |           |           | 10                      |                           |                                   |                         |                 | -                 |           |
| Winding   |  |                   |        |            |           | out       | side                    |                           |                                   |                         |                 | -                 |           |
| Printer dimensio  | ns, weights                                |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Width x Height x D  | )epth                                      | mm                |        |            |           | 252 x 2   | 88 x 460                |                           |                                   |                         | 252 x 2         | 288 x 460         |           |
| Weight  |  | kg                |        |            |           | 1         | 10                      |                           |                                   |                         |                 | 10                |           |
|   | osition indicators                         | 3                 |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Transmissive sens   |  | detecting         |        | lal        | oels, nun | ch marks  | . materia               | ls ending                 | print ma                          | arks on tra             | nslucent materi | als <sup>4)</sup> |           |
| Reflective sensor   |  | detecting         |        |            |           |           |                         |                           |                                   |                         | cent materials  |                   |           |
| Sensor distance   |  | osition mm        |        |            |           | ,         |                         |                           | 55                                |                         |                 |                   |           |
| Material passage  |  | mm max.           |        |            |           |           |                         | 2 (5 are a                |                                   |                         |                 |                   |           |
|   |  | IIIIII IIIaX.     |        |            |           |           |                         | 2 (3 ale a                | η ορτίσει,                        |                         |                 |                   |           |
| Interfaces  | 220 400 h                                  |                   |        |            |           |           |                         |                           | _                                 |                         |                 |                   |           |
|   | 230,400 baud / 8 bit                       |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| USB 2.0 Hi-Speed  | device for plugging a PC                   |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Ethernet 10/100 M   | /bit/s                                     |                   |        |            |           |           |                         |                           |                                   | e, OPC UA               |                 |                   |           |
| ·   | <u>'</u>                                   |                   |        |            |           |           |                         |                           |                                   |                         | NMP, SMTP, VNC  |                   |           |
| 1 USB host on the   | control panel f                            | for plugging      |        |            |           |           |                         |                           |                                   |                         | etooth adapter  |                   |           |
| 2 USB hosts on the  | e back of a unit                           | for plugging      |        |            | a k       | eyboard,  | , barcode               | scanner,                  | an USB s                          | tick, USB V             | VLAN stick,     |                   |           |
|   |  | - Prugging        |        | USB        | NLAN sti  | ck with a | rod ante                | nna, USB                  | Bluetoot                          | h adapter,              | external contro | panel             |           |
| USB host, 24 VDC,   | , for peripheral plugging                  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| 21 11 11/61   | ce providing 8 inputs and 8 outputs        |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Digital I/O interfac  |  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| • ,   |  |                   |        |            |           |           | 100                     | - 240 VAC,                | 50/60 Hz                          | PFC                     |                 |                   |           |
| Operating data  | nower                                      |                   |        |            |           | -10       |                         |                           |                                   | •                       | ion             |                   |           |
| <b>Operating data</b> Voltage   |  |                   |        |            |           | <10       |                         |                           |                                   | ical operat             | .1011           |                   |           |
| <b>Operating data</b> Voltage Consumption of p                            |  |                   |        |            |           |           |                         |                           |                                   | ndensing                |                 |                   |           |
| Operating data Voltage Consumption of p Temperature /                     | Operation                                  |                   |        |            |           |           |                         |                           |                                   |                         |                 |                   |           |
| Operating data Voltage Consumption of p Temperature /                     | Operation<br>Stock                         |                   |        |            |           |           |                         |                           |                                   | ndensing                |                 |                   |           |
| Operating data Voltage Consumption of p Temperature /                     | Operation                                  |                   |        |            |           |           |                         |                           |                                   | ndensing<br>ondensing   |                 |                   |           |
| Operating data Voltage Consumption of p Temperature / humidity            | Operation<br>Stock                         |                   |        |            |           |           | –25 - 60°0<br>FCC Class | C / 20 - 85<br>A, ICES-3, | %, not co<br>cULus, C             | ondensing<br>B, CoC Mex | ico,            |                   |           |
| Operating data Voltage Consumption of p Temperature / humidity            | Operation<br>Stock                         |                   |        |            |           |           | –25 - 60°0<br>FCC Class | C / 20 - 85               | %, not co<br>cULus, C             | ondensing<br>B, CoC Mex | ico,            |                   |           |
| Operating data Voltage Consumption of p Temperature / humidity  Approvals | Operation<br>Stock                         |                   |        |            |           |           | –25 - 60°0<br>FCC Class | C / 20 - 85<br>A, ICES-3, | %, not co<br>cULus, C             | ondensing<br>B, CoC Mex | ico,            |                   |           |
| Operating data Voltage  | Operation<br>Stock<br>Transport            | n                 |        |            |           |           | –25 - 60°0<br>FCC Class | C / 20 - 85<br>A, ICES-3, | %, not co<br>cULus, C<br>BSMI, KC | ondensing<br>B, CoC Mex | ico,            |                   |           |

 <sup>&</sup>lt;sup>1)</sup> Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.
 <sup>2)</sup> if labels are torn off, cut, rewound
 <sup>3)</sup> A ribbon should be at least as wide as the liner material.
 <sup>4)</sup> Print marks on translucent materials are not possible if operating a SQUIX 4.3 TD

# Technical data

| D                                      |  |  |            |
|--|--|--|------------|
| Processor, 32 bit clock                | rate   | MHz  | 800        |
| RAM                                    |  | MB   | 256        |
| IFFS                                   |  | MB   | 50         |
| Port for plugging a SD                 | memory card (SDHC, SDXC)   | GB max.  | 512        |
| Battery for indicating t               | ime and date, real-time clock  |  |            |
| Data kept in memory (                  | e.g. serial numbers) when pov  | ver turns off  |            |
| Setup options                          |  |  |            |
|  | Print Labels Ribbon Tear off Peal off Cut Apply Interfaces Error   | Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving r - Orientation  | mode       |
|  |  | Interpreter  |            |
| Status bar                             |  |  |            |
| Controls                               | Receive data<br>Record data stream<br>Prior warning to a ribbon ending<br>SD memory card plugged<br>USB stick plugged                  | Bluetooth<br>WLAN<br>Ethernet<br>USB slave<br>Time   |            |
| Controts                               | Pihhon winding   | Print head volta   | σo         |
|  | Ribbon winding<br>Prior warning to a ribbon ending<br>Ribbon ending  |  | erature    |
|  | Running out of material  | Pinch roller oper<br>(peel-off unit, se  |            |
| T                                      |  | Peripheral error   |            |
| Test routines                          |  | to the code of the term  | .1         |
| System diagnostics                     | upon startup, detection of pr  |  | u          |
| Information display,<br>test printout, | Status printout<br>Fonts list  | Test grid<br>Label profile   |            |
| analysis                               | List of units  | List of events   |            |
| •                                      | WLAN status  | Monitor mode   |            |
| Status reports                         | Printout of print durations,     Status of a unit requested b     Display of errors related to a     or peripheral device, as wel      | y software comm<br>a network, barco  | nand<br>de |
| Fonts                                  |  |  |            |
| Integral                               | 5 bitmap fonts:  | 7 vector fonts:  |            |
| For storing                            | 12 x 12 dots<br>16 x 16 dots<br>16 x 32 dots<br>OCR-A<br>OCR-B   | AR Heiti Medium<br>CG Triumvirate (<br>Garuda<br>HanWangHeiLig<br>Monospace 821<br>Swiss 721<br>Swiss 721 Bold | Cond. Bold |
| Sets of characters                     | Windows-1250 to -1257  |  |            |
| octs of characters                     | DOS 437, 737, 775, 850, 852, 8<br>EBCDIC 500<br>ISO 8859-1 to -10 and -13 to -<br>WinOEM 720<br>UTF-8<br>MacRoman<br>DEC MCS<br>KOI8-R | 16   | 5, 869     |
|  | Western European<br>Eastern European<br>Chinese, simplified<br>Chinese, traditional<br>Thai  | Cyrillic<br>Greek<br>Latin<br>Hebrew<br>Arabian  |            |
| Bitmap                                 | 1 mm to 3 mm wide and high<br>Zoom factors 2 to 10<br>0°, 90°, 180°, 270° orientation  |  |            |
| Vector / TrueType                      | 0.9 mm to 128 mm wide and<br>Continuous zoom<br>360° orientation in steps of 1   | high   |            |
| Ct. I                                  | bold, italic, underlined, outli  |  |            |
| Styles                                 | - depending on the font type   |  |            |

| Graphics   |  |   |   |  |  |  |  |
|--|--|---|---|--|--|--|--|
| Elements   | lines, arrows, rectangles, cir   | cles, ellipses  |   |  |  |  |  |
|  | - filled and gradient  |   |   |  |  |  |  |
| Formats PCX, IMG, BMP, TIF, MAC, GIF, PNG        |  |   |   |  |  |  |  |
| Codes  | T  |   |   |  |  |  |  |
| 1D barcodes<br>(linear)                          | Code 39, Code 93<br>Code 39 Full ASCII<br>Code 128 A, B, C<br>EAN 8, 13<br>EAN/UCC 128 / GS1-128<br>EAN/UPC Appendix 2<br>EAN/UPC Appendix 5<br>FIM<br>HIBC  | Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0 |   |  |  |  |  |
| 2D codes,<br>stacked codes                       | DataMatrix DataMatrix Rectangle Extended Code Micro QR code Micro QR code GS1 QR code GS1 DataMatrix PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, st All codes may vary in height 0°, 90°, 180°, 270° orientatio Feasibility of check digits, p and start/stop coding dependence. | tacked, omni-directional<br>i, modular width and ratio<br>ns<br>lain text printouts                               |   |  |  |  |  |
| Software   |  |   |   |  |  |  |  |
| Label software                                   | cablabel S3 Lite<br>cablabel S3 Viewer<br>cablabel S3 Pro<br>cablabel S3 Print   |   |   |  |  |  |  |
| Running also with                                | CODESOFT<br>NiceLabel<br>BarTender   |   |   |  |  |  |  |
| Stand-alone operation                            |  |   |   |  |  |  |  |
| Windows<br>printer drivers<br>certified WHQL for | Windows Vista<br>Windows 7<br>Windows 8<br>Windows 8.1<br>Windows 10   | Server 2008<br>Server 2008 R2<br>Server 2012<br>Server 2012 R2<br>Server 2016<br>Server 2019                      | • |  |  |  |  |
| Apple printer drivers                            | for Mac OS X 10.6 or any late  | er release  | • |  |  |  |  |
| Linux printer drivers                            | based on CUPS 1.2 or any la  | ater release  |   |  |  |  |  |
| Programming                                      | JScript printer language<br>abc Basic Compiler<br>ZPL II (datastream be tested   | ł in advance)   |   |  |  |  |  |
| Integration                                      | SAP<br>Database Connector  |   |   |  |  |  |  |
| Administration                                   | Printer control<br>Configuration on the Intrar   | net and Internet  |   |  |  |  |  |

 $\blacksquare$  standard  $\Box$  option

Free and Open Source software in cab products: www.cab.de/opensource

# OPC UA

All the latest cab printers have been designed ready for interacting with machines and components of different manufacturers in industrial plants. An OPC UA server is part of the firmware.





# 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.







# 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.



# Printer control

#### **Drivers**

cab provides 32 / 64 bit drivers for controlling printers with software other than cablabel S3.
Running the drivers requires operating systems
Windows<sup>1)</sup> Vista, Mac OS X<sup>2)3)</sup> 10.6 and Linux<sup>3)</sup> CUPS 1.2 or any later releases.



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

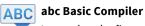
# **Programming**



# **JScript**

cab printers embed JScript language.

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



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

# **Integration**



cab as a member of this program developed a replace method for controlling cab printers from SAP<sup>4)</sup> R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

# Printer administration

# Configuration in 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.

- 1) Windows is a registered trademark of Microsoft Corporation.
- <sup>2)</sup> MAC OS X is a registered trademark of Apple Computer, Inc.
- 3) SQUIX, MACH 4S, EOS, HERMES Q, PX Q, AXON 1 units
- <sup>4)</sup> SAP and associated logos are trademarks or registered trademarks of SAP SE.

# Overview of accessories

|  |   |               |                  |                     |                                  |                           |                       | ● typi                | cal O possib                           | le ■ standa                                  | rd 🗆 option                                      |
|--|---|---------------|------------------|---------------------|----------------------------------|---------------------------|-----------------------|-----------------------|--|--|--|
| Pos.   |   | Basic<br>unit | Peel-off<br>unit | 1.1, 1.2<br>SQUIX 2 | 1.3, 1.4<br>SQUIX 4.3<br>SQUIX 4 | 1.9, 1.10<br>SQUIX 4.3 TD | 1.5, 1.6<br>SQUIX 6.3 | 1.7, 1.8<br>SQUIX 8.3 | 1.11, 1.12<br>SQUIX 4.3 M<br>SQUIX 4 M | 1.13<br>SQUIX 4.3 M<br>SQUIX 4 M<br>UHF RFID | 1.14<br>SQUIX 4.3 MT<br>SQUIX 4 MT<br>Basic unit |
| 2.6  | DR4-M30, -M60, -M80 print rollers   | •             | •                | -                   | -                                | -                         | -                     | -                     |  |  |  |
| 2.7  | DRS print roller  | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.8  | External control panel, USB cable   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.9  | Label sensor 4.5  | •             | -                | 0                   | 0                                | 0                         | 0                     | 0                     |  | _  | _  |
| 2.10   | Downscale print head pressing system  | •             | •                | 0                   | 0                                |                           | 0                     | 0                     | 0                                      | 0  | 0  |
| 2.11   | Antistatic brush  | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.12   | Adapter 100   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.13   | SD memory card  | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.14   | USB stick   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.15   | USB WLAN stick  | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.16   | USB WLAN stick with a rod antenna   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 2.17   | USB Bluetooth adapter   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| Peelir   | ng off  |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 2.18   | PS800 present sensor  | -             | •                |                     |                                  |                           |                       |                       | -                                      | -  | -  |
| 2.19   | PS900 present sensor  | -             | •                |                     |                                  |                           |                       |                       |  |  | -  |
| 2.20   | PS1000 MP present sensor  | -             | •                | -                   | -                                | -                         | -                     | -                     |  |  | -  |
| 2.21   | Extended DP210, DP410, DP610 peel-off plates  | -             | •                |                     |                                  |                           |                       | -                     |  |  | -  |
| 2.22   | Reflective product sensor   | -             | •                |                     |                                  |                           |                       |                       |  |  | -  |
| Interf   | aces, switches  |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 3.1  | Digital I/O interface   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 3.2  | I/O interface plug, SUB-D, 25 pins  | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 3.3  | Label selection - I/O box   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 3.4  | TR2 hand switch   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 3.5  | Foot switch   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| Conne  | ecting cable  |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 4.1  | RS232-C cable   | •             | •                |                     |                                  |                           |                       |                       |  |  |  |
| Cuttir   | ng, perforating   |               |                  |                     |                                  |                           |                       |                       |  | ,  |  |
| 5.1  | CSQ 401 / CSQ 402 cutters   | •             | 0                | -                   | ■ or □                           | ■ or □                    | -                     | -                     | ■ or □                                 | ■ or □                                       | _  |
| 5.2  | PSQ 403 perforation cutter  | •             | 0                | -                   | _                                | _                         | _                     | -                     |  |  | _  |
| 5.3  | CU200, CU400, CU600, CU800 cutters  | •             | 0                |                     |                                  |                           |                       |                       |  |  |  |
| 5.4  | PCU400/2,5, PCU400/10 perforation cutters   | •             | 0                | _                   |                                  |                           | _                     | _                     |  |  |  |
| Stack  | ing, verifying  |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 5.5  | ST400 M stacker   |               | 0                | _                   | _                                | _                         |                       | _                     |  |  |  |
| 5.5  | providing a cutter and a base frame   |               | 0                |                     |                                  |                           | _                     |                       |  |  |  |
| 5.6  | CC200-SQ scanner  | •             |                  |                     |                                  |                           |                       |                       |  |  | -  |
| Rewin  | ding, unwinding   |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 6.1  | RG200, RG400 guide plates   | -             | •                |                     |                                  |                           | -                     | -                     |  |  | -  |
| 6.2  | External ER1/210, ER2/2101, ER3/210 rewinders   | •             | 0                | -                   |                                  |                           |                       |                       | 0                                      | 0  | -  |
| 6.3  | External ER4/300, ER6/300 rewinders   | •             | 0                | -                   |                                  |                           |                       | -                     | 0                                      | 0  | -  |
| 6.4  | External EU4/300, EU6/300 unwinders   | •             | 0                | -                   |                                  |                           |                       | -                     |  |  |  |
| 6.5  | Kit to adapt a rewinder or an unwinder  | •             | 0                | _                   |                                  |                           |                       |                       |  |  |  |
| Tube l   | abeling   |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 7.1  | AXON 2 tube applicator  | -             | •                | -                   | -                                | -                         | -                     | -                     |  | -  | -  |
| Wrap-  | around labeling   |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 7.2  | WICON wrap-around applicator cators, demand modules   | -             | •                | _                   | -                                | -                         | -                     | -                     |  | -  | -  |
| 7.3  | S1000-220, -300, -400 applicators   | -             | •                |                     |                                  |                           |                       | -                     |  |  | -  |
| 7.8  | S3200 applicator  | -             | •                |                     |                                  |                           | -                     | -                     |  |  | -  |
| 7.11   | S5104, S5104M, S5106 demand modules   | -             | •                | -                   |                                  |                           |                       | -                     |  | _  | -  |
| 7.12   | All-around labeler  | -             | •                |                     |                                  |                           | -                     | _                     |  |  | _  |
| Assen  | nbly assistants   |               |                  |                     |                                  |                           |                       |                       |  |  |  |
| 8.1  | Assembly plate  | -             | •                |                     |                                  |                           | -                     | -                     |  |  | _  |
|  | 2 1   | _             | •                |                     |                                  |                           | _                     | -                     |  |  | -  |
| 8.2  | Profiles 40 mm, 80 mm, 120 mm   |               | _                |                     |                                  |                           | _                     | _                     |  |  | -  |
|  | Profiles 40 mm, 80 mm, 120 mm  Base plate 500 mm x 255 mm   | _             |                  |                     |                                  |                           |                       |                       |  |  |  |
| 8.2<br>8.3<br>8.4                                | Profiles 40 mm, 80 mm, 120 mm  Base plate 500 mm x 255 mm  Floor stand  | -             | •                |                     |                                  |                           |                       |                       |  |  | _  |
| 8.3<br>8.4                                       | Base plate 500 mm x 255 mm<br>Floor stand   |               | •                |                     |                                  |                           |                       |                       |  |  | -  |
| 8.3<br>8.4<br>8.5                                | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit   | -             | •                |                     |                                  |                           |                       |                       |  |  |  |
| 8.3<br>8.4<br>8.5<br><b>Specia</b>               | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit al covers, protective chassis   | -             | •                |                     |                                  |                           |                       |                       |  |  | -  |
| 8.3<br>8.4<br>8.5<br><b>Specia</b><br>9.1        | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit al covers, protective chassis ESD surface   | -             | •                |                     |                                  |                           |                       | -                     |  |  | -  |
| 8.3<br>8.4<br>8.5<br><b>Specia</b><br>9.1<br>9.2 | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit al covers, protective chassis ESD surface Food applications                         | -             | •                |                     |                                  |                           |                       | -<br>-                |  |  | -  |
| 8.3<br>8.4<br>8.5<br><b>Specia</b><br>9.1        | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit al covers, protective chassis ESD surface   | -             | •                |                     |                                  |                           |                       | -                     |  |  | -  |
| 8.3<br>8.4<br>8.5<br><b>Specia</b><br>9.1<br>9.2 | Base plate 500 mm x 255 mm Floor stand Jig for retaining a printer unit al covers, protective chassis ESD surface Food applications Stainless steel chassis | -             | •                |                     |                                  |                           |                       | -<br>-                |  |  | -  |

 $<sup>^{1)}</sup>$  designed for the A+ printer series, adapted to SQUIX; supplied until external rewinders ER20x will be available

# Accessories

| 2.6  | DR4-M30 print roller Liner and continuous materials as wide as 30 mm DR4-M60 print roller Liner and continuous materials as wide as 60 mm DR4-M80 print roller Liner and continuous materials as wide as 80 mm Synthetic rubber coating enables highly accurate print images. | 2.18 | PS800 present sensor for use with materials guided aligned to the left Labels are detected in peel-off position. As soon as a label has been removed, the next one is automatically printed. The minimum width of a label in use is 16 mm, its minimum height 6 mm. Distant 7 mm to the locating edge |
|------|---|------|---|
| 2.7  | DRS4 print roller Materials as wide as 120 mm Silicone coating enables extra long life cycles, accepting higher tolerances in print image accuracy.   | 2.19 | PS900 present sensor<br>for use with materials guided aligned to the left<br>or in centered position<br>The moveable sensor qualifies for small or<br>customized labels. As soon as a label has been<br>removed, the next one is automatically printed.   |
| 2.8  | External control panel If the control panel of a printer cannot be accessed, an additional external one can be plugged.  Same functionality as on a printer   |      | The minimum width of a label in use is 4 mm, its minimum height 6 mm.  If materials are in use aligned to the left, they must be 12 cm to 60 mm distant to the locating edge. Materials in centered position: ibid  |
|      | Landscape mode or portrait mode Operability as targeted, either on an external panel or on a printer  USB 2.0 Hi-Speed device for plugging a printer  | 2.20 | PS1000 MP present sensor for use with materials guided in centered position. Labels are detected in peel-off position. As soon as a label has been removed, the next one is automatically printed.  |
|      | cab provides specified <b>USB cables</b> for power supply. Lengths are 1.8 m to 16 m.   |      | The minimum width of a label in use is 4 mm, its minimum height 6 mm. Centered position   |
| 2.9  | Label sensor 4.5 Only for operation on a SQUIX 4/4.3 M printer guiding materials in centered position. Maximum material passage 5 mm  | 2.21 | Extended DP210, DP410, DP610 peel-off plate for use with labels that hardly separate due to strong adhesive or thick liner material. Use only if printing has been triggered by the touch of a button on the display or by a control  |
| 2.10 | Downscale print head pressing system Direct thermal printing requires less pressure exterted to a print head, resulting in a longer life cycle of the latter.   | 2.22 | signal. A present sensor cannot be used.  Reflective product sensor Detecting products automatically on a conveyor  |
| 2.11 | Antistatic brush It dissipates electrostatic charge after printing, in particular if synthetic materials are in use.  | 3.1  | Digital I/O interface Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.  |
| 2.12 | Adapter 100 if operating label rolls with a core diameter of 100 mm and outside diameter succeeds 180 mm  | 3.2  | I/O interface plug, SUB-D, 25 pins<br>All control signals connect to the<br>I/O interface using clamping screws.  |
| 2.13 | SD memory card  | 3.3  | Label selection - I/O box A maximum of 16 labels per box can be selected from a memory card   |
| 2.14 | USB stick   |      | by a superior control unit, such as a PLC. Two boxes may be plugged. Making use of an I/O box, four inputs and four outputs suffice for implementing  |
| 2.15 | USB WLAN stick<br>2.4 GHz 802.11b/g/n<br>Hotspot mode or infrastructure mode  | 3.4  | PLC processes via abc programming.  TR2 hand switch For plugging to a digital I/O interface   |
| 2.16 | USB WLAN stick with a rod antenna to extend the range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode   | 3.5  | Foot switch For plugging to a digital I/O interface   |
| 2.17 | USB Bluetooth adapter   | 7.1  | <b>RS232-C cable</b> 9/9 pins, 3 m  |

# Cutting, perforating



**CSQ 401 / CSQ 402 cutters** are provided assembled to a printer ex factory or accessorial on delivery for all SQUIX 4 units.

Paper labels and self-adhesive labels, cardboard and synthetic materials can be cut, so can shrink tubes. By pivoting the cutter, materials can be accessed for removal.

The CSQ 402 provides a more powerful engine and titanium-coating, enabling highly performant cutting even with thick materials such as cardboard and shrink tubes, as well as with self-adhesive materials. The number of cuts performed are kept in memory, allowing wear control.

**PSQ 403 perforation cutters** are provided for all SQUIX 4M units Continuous materials such as shrink tubes can be perforated, to simplify separation by hand at a later stage.

The design and technical data correspond to the CSQ 402.

| Cutter       |                        |  | CSQ 401                  | CSQ 402                   |                        |  |
|--------------|------------------------|--|--------------------------|---------------------------|------------------------|--|
| Perfora      | Perforation cutter     |  |                          |                           | PSQ 403                |  |
| Operated     | with                   |  | SQUIX 4.3<br>SQUIX 4.3 M | , SQUIX 4<br>I, SQUIX 4 M | SQUIX 4.3 M, SQUIX 4 M |  |
| Perforation  | n Distance between off | -cuts mm                                   | -                        | -                         | 2.5                    |  |
|              | Width of off-cuts      | mm   | -                        | -                         | 0.4                    |  |
|              | Quantity of off-cuts   |  | -                        | -                         | 6                      |  |
| Material     | Width                  | mm max.                                    | 120                      | 120                       | 114                    |  |
|              | Weight (cardboard)     | gr/m² max.                                 | 200                      | 300                       | 300                    |  |
|              | Thickness              | mm   | 0.7                      | 1.1                       | 1.5                    |  |
| Cutting le   | ength                  | mm at least                                | 10                       |                           |                        |  |
| Material p   | oassage                | mm max.                                    | 2.0                      | 2.0                       | 2.0                    |  |
| Performance* |                        | cuts/min                                   | 120                      | 200                       | 200                    |  |
| Controls     |                        | no final cutter position, cover off cutter |                          |                           |                        |  |
| Tray         |                        |  |                          |                           |                        |  |
| Label heig   | ght                    | mm max.                                    |                          | 10                        | 0                      |  |

<sup>\*</sup> at use of material 1 mm high, no backfeed



#### **CU** cutters

Paper labels and self-adhesive labels, cardboard, textile and synthetic materials can be cut, so can shrink tubes.

Tray for collecting a maximum of approximately 50 labels

# **PCU400** perforation cutter

Continuous materials such as textiles or shrink tubes can be perforated, to simplify separation by hand at a later stage.
Cutting a material is as well possible.

| Cutter                |                     |                          | CU200   | CU         | 400                            | PCL   | J400  | CU600      | CU800     |  |
|-----------------------|---------------------|--------------------------|---------|------------|--------------------------------|-------|-------|------------|-----------|--|
| Perforat              | ion cutter          |                          |         |            |                                | 2.5   | 10    |            |           |  |
| Operated v            | vith                |                          | SQUIX 2 | squi       | UIX 4.3<br>X 4.3 M<br>(4.3 MT, | , squ | X 4 M | SQUIX 6.3  | SQUIX 8.3 |  |
| Perforation           | Distance between of | f-cuts mm                | -       | -          | -                              | 2.5   | 10    | -          | -         |  |
|                       | Width of off-cuts   | mm                       | -       | -          | -                              | 0.5   |       | -          | -         |  |
| Material              | Width               | mm max.                  | 67      | 120        | 114                            | 85    |       | 180        | 232       |  |
|                       | Weight (cardboard)  | gr/m²                    |         | 60 - 300   |                                |       |       |            |           |  |
|                       | Thickness           | mm                       |         | 0.05 - 1.1 |                                |       |       | 0.05 - 0.5 |           |  |
| Cutting len           | gth                 | mm at least              | 5       |            |                                |       |       |            |           |  |
| Material pa           | issage              | mm max.                  | 2.5     |            |                                |       |       |            |           |  |
| Performance* cuts/min |                     | 100                      |         |            |                                |       |       |            |           |  |
| Printing stops if     |                     | no final cutter position |         |            |                                |       |       |            |           |  |
| Tray                  |                     |                          |         |            |                                |       |       |            |           |  |
| Label heigh           | nt                  | mm max.                  | -       | 1          | 00                             |       | -     | -          | -         |  |

<sup>\*</sup> at use of material 1 mm high, no backfeed

The CU400 will be replaced by the CSQ cutter series, the PCU400 by the PSQ403 perforation cutter.

# Stacking



# ST400 M stacker providing a cutter

- Printed materials can be cut and then collected. Print jobs stop if the maximum number of labels have been collected. Limitations may occur with stiff or curved materials. cab recommends to have such operations tested.
- 2 A unit can be set anywhere on a table with the help of a base frame.

| Stacker providing a cutter |                |            | ST400 M  |  |  |
|----------------------------|----------------|------------|--|--|--|
| Operated with              |                |            | SQUIX 4.3 M, SQUIX 4 M<br>SQUIX 4.3 MT, SQUIX 4 MT                   |  |  |
| Material Width             |                | mm         | 20 - 100   |  |  |
|                            | Weight (cardbo | ard) gr/m² | 60 - 300   |  |  |
|                            | Thickness      | mm         | 0.05 - 0.8   |  |  |
| Cutting le                 | ength          | mm         | 20 - 150   |  |  |
| Material p                 | oassage        | mm max.    | 1.2  |  |  |
| Performa                   | nce*           | cuts/min   | 100  |  |  |
| Printing stops if          |                |            | no final cutter position, paper jam, cover open, limit of collecting |  |  |
| Limit of c                 | ollecting      | mm max.    | 100  |  |  |

<sup>\*</sup> at use of material 1 mm high, no backfeed



#### Support table - label W x H

The table and the protective cover are adapted to the size of a label. Please request individually.

# Verifying



**CC200-SQ scanner** for detecting linear 1D barcodes, 2D and stacked codes A camera checks a code printed on a label in horizontal or vertical direction in terms of legibility or content. In the case of a bad coding, printing stops and the label can be removed by hand. Retracting such labels after stopping and blackening them is another printer option.

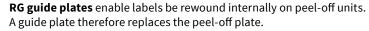
The scanner can be operated in tear-off mode and in peel-off mode.

| Scanner                    |         | CC200-SQ   |  |  |
|----------------------------|---------|--|--|--|
| Operated with              |         | all SQUIX units  |  |  |
| Scan distance              | mm      | 45 - 150   |  |  |
| Scan angle                 | 0       | -15 to +15   |  |  |
| Number of codes on a label |         | 1  |  |  |
| Controls                   | GOODBAD | check of legibility  |  |  |
|                            | VERIFY  | check of legibility and results compared with initial data |  |  |

See www.cab.de/en/cc200 for more information.

# Rewinding, unwinding with or without the use of a cardboard core





| Guide plate |   |         | RG200     | G200 RG400               |                            |  |  |
|-------------|---|---------|-----------|--------------------------|----------------------------|--|--|
|             | Operated with                                   |         | SQUIX 2 P | SQUIX 4.3 P<br>SQUIX 4 P | SQUIX 4.3 MP<br>SQUIX 4 MP |  |  |
|             | Material width                                  | mm max. | 67        | 120                      | 114                        |  |  |
| -           | Roll diameter                                   | mm max. | 142       |                          |                            |  |  |
|             | Clamping axle provided for core diameters of mm |         | 38.1 - 40 |                          |                            |  |  |
|             | Winding   |         | outside   |                          |                            |  |  |



**External ER1, ER2, ER3 rewinders** for printer assembly using screws Label webs wound outside or inside are wound consistently and tight by electronic control, with the help of a pendulum arm.

| External rewinder |         | ER1/210   | ER2/210 | ER3/210   |  |  |
|-------------------|---------|---|---------|-----------|--|--|
| Operated with     |         | SQUIX 4.3, SQUIX 4<br>SQUIX 4.3 M, SQUIX 4 M  |         | SQUIX 8.3 |  |  |
| Material width    | mm max. | 120 180 23  |         |           |  |  |
| Roll diameter     | mm max. | 205   |         |           |  |  |
| Core diameter     | mm      | 40 if a winder axle or a cardboard core are in use 76 if a cardboard core is in use with an adapter |         |           |  |  |
| Winding           |         | outside or inside   |         |           |  |  |



# External ER4, ER6 rewinders, power supply built in

Label webs wound outside or inside are wound consistently and tight by electronic control, with the help of a pendulum arm. They operate also with printers other than cab.

| External rewinder |         | ER4/300   | ER6/300   |  |
|-------------------|---------|---|-----------|--|
| Operated with     |         | SQUIX 4.3, SQUIX 4<br>SQUIX 4.3 M, SQUIX 4 M  | SQUIX 6.3 |  |
| Material width    | mm max. | 120   | 180       |  |
| Roll diameter     | mm max. | 300   |           |  |
| Core diameter     | mm      | 40 if a winder axle or a cardboard core are in us 76 if a cardboard core is in use with an adapte |           |  |
| Winding           |         | outside or inside   |           |  |
| Adapter kit       |         |   |           |  |



#### **External EU unwinders**

Even heavy rolls are fed consistently. Label webs wound outside or inside can be operated.

| External un    | winder                                      | EU4                  | EU6/300  |           |  |  |  |
|----------------|---|----------------------|--|-----------|--|--|--|
| Operated with  |   | SQUIX 4.3<br>SQUIX 4 | SQUIX 4.3 M<br>SQUIX 4 M<br>SQUIX 4.3 MT<br>SQUIX 4 MT | SQUIX 6.3 |  |  |  |
| Material width | mm max.                                     | 120                  | 114  | 180       |  |  |  |
| Roll diameter  | mm max.                                     | 300                  |  |           |  |  |  |
| Core diameter  | Core diameter mm mm if an adapter is in use |                      | 38.1   |           |  |  |  |
|                |   |                      | 76   |           |  |  |  |
| Winding        | Winding                                     |                      | outside or inside                                      |           |  |  |  |
| Adapter kit    |   |                      |  |           |  |  |  |

# Tube labeling



# **AXON 2 tube applicator**

Tubes and vials of diameters 10 mm to 22 mm can be labeled (7 mm to 16 mm if options are provided). See AXON catalogue
The tubes and vials can be inserted and removed by hand or automated by a handling system. They may be ejected also to a tray.

| Tube    | applicator  |             | AXON 2  |
|---------|---|-------------|---|
| Operate | ed with   |             | SQUIX 4.3 MP, SQUIX 4 MP                                  |
| Tube    | Tube Diameter mm  Length, closure cap included mm |             | 10 - 22   |
|         |   |             | 25 - 120  |
|         | Conicity  | % max.      | 0.8   |
| Label   | Materials   |             | paper, synthetics such as PET, PP                         |
|         | Width   | mm          | 5 - 56  |
|         | Height  | mm at least | 12  |
| Liner   | Width   | mm max.     | 60  |
| Control | S   |             | applicator pivoted, tube missing, incorrect tube diameter |

See www.cab.de/en/axon2 and www.cab.de/en/axon1 for more information.

# Cable labeling



#### WICON wrap-around applicator

Cylindric items of diameters 2 mm to 16 mm can be labeled, such as single wires, strands, cables, hoses, tubes or round rods.

Transparent laminate protects data blocks on a label persistently from environmental impacts.

Items are inserted in horizontal orientation. They can be aligned 25 mm to 100 mm (1" to 4") distant to the margin of a label using a stop.

Printing a label and wrapping it around an item takes 1.8 to six seconds, depending on the number of wrap-arounds.

Operation starts as soon as an item has been inserted. It may be triggered also by a foot switch, a data interface or an I/O interface.

Pivoting the applicator allows label rolls or ribbons been replaced easily.

| Wrap-    | around applicator                           | WICON       |                          |
|----------|---|-------------|--------------------------|
| Operate  | d with                                      |             | SQUIX 4.3 MP, SQUIX 4 MP |
| Item     | Diameter                                    | mm          | 2.0 - 16.0               |
|          | Length                                      | mm at least | 132                      |
|          | Centering panel distant to left and right   | mm          | 124                      |
|          | Label margin distant to centering panel     | mm          | 12.7                     |
|          | Label margin distant to edge of item by sto | op mm       | 25 - 100                 |
|          | Deflection related to a length of 124 mm    | mm max.     | 1                        |
| Label    | Width                                       | mm          | 12.7 - 50.8              |
|          | Height                                      | mm          | 19.1 - 70.0              |
|          | Material                                    |             | PVC                      |
| Applicat | or Cycle time printing and applying         | S           | 1.8 - 6                  |
|          | Number of wrap-arounds                      |             | 2 - 10                   |

See www.cab.de/en/wicon for more information on WICON and labels.

# S1000 applicator



#### Apply labels in real time

S1000 attached to a SQUIX peel-off printer is economic, whether operated semi-automated or integrated in vertical orientation to a manufacture plant.

Labels are applied to an item by a stroke cylinder.

# Long life cycles

The ball bearing guide bars are low wear.

# 2 Different levels of application

By providing different lengths of stroke for the cylinder, labels can be applied on various heights to an item.

# 3 Compressed air regulation

Micro filters prevent from contamination. Decompression keeps the quality of label applications consistently high.

#### Reliable processes

Supporting air, intake air and stroke speeds can all be set. The pressing force can be reduced to less than 10N (1kg) in sensitive operations. Purging the intake ducts subsequent to every label application prevents from contamination.

#### 6 A wide range of sizes

Labels 25 mm to 176 mm wide and 25 mm to 200 mm high can be applied.

# Supporting air

It enables labels be blown onto a pad.

#### Pad

Labels are transferred to a pad and held there by vacuum. A stroke cylinder moves the pad with the labels to an item.

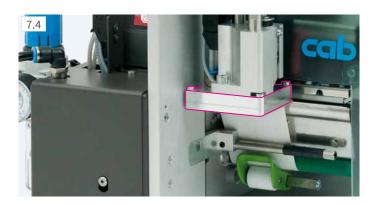
#### Pre-dispense

Label applications can be verified by the touch of a button. Printing is triggered on a first touch and the printed label is transferred to the applicator. The label is applied on a second touch.

| Applicator                                    | S1000-220  | S1000-300 | S1000-400 |
|---|--|-----------|-----------|
| Operated with                                 | SQUIX 2, SQUIX 4.3, SQUIX 4<br>SQUIX 4.3 M, SQUIX 4 M, SQUIX 6.3 |           |           |
| Cylinder stroke mm                            | 220  | 300       | 400       |
| Stroke of a pad mm as calculated below a unit | 64   | 144       | 244       |
| Compressed air bar                            |  | 4.5       |           |
| Performance labels/min approx <sup>1)</sup>   |  | 25        |           |

<sup>1)</sup> calculated at a stroke of 100 mm below a unit, using labels 100 mm high and a print speed of 100 mm/s

# Accessories

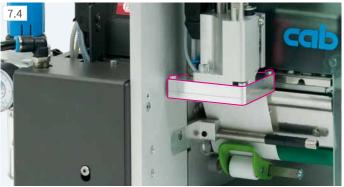


# **Universal pads**

Drilled intake holes arranged in a grid are covered by foil. Piercing according to the size of a label

| Universal pad                                     | A10      | 021                  | A1021                |
|---|----------|----------------------|----------------------|
| Operated with                                     | SQUIX 2  | SQUIX 4.3<br>SQUIX 4 | SQUIX 4.3<br>SQUIX 4 |
| Label width mm                                    | 25 - 63  | 25 - 70              | 25 - 90              |
| Label height mm                                   | 25       | - 60                 | 25 - 90              |
| Surface of an item                                | flat     |                      |                      |
| Height of an item                                 | flexible |                      |                      |
| State of an item at the moment a label is applied | at rest  |                      |                      |

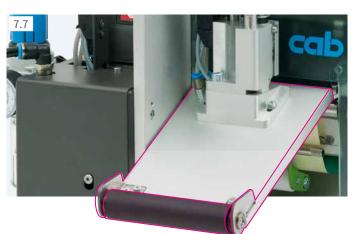
# S1000 applicator accessories





# 7.5





# Tamp-on pads

They are manufactured according to the size of a label.

| Tamp-on pad                                       | A1021    |                      |           |
|---|----------|----------------------|-----------|
| Operated with                                     | SQUIX 2  | SQUIX 4.3<br>SQUIX 4 | SQUIX 6.3 |
| Label width mm                                    | 25 - 63  | 25 - 116             | 50 - 176  |
| Label height mm                                   | 25 - 200 |                      |           |
| Surface of an item                                | flat     |                      |           |
| Height of an item                                 | flexible |                      |           |
| State of an item at the moment a label is applied | at rest  |                      |           |

# Universal pads, spring-mounted

Pitch of spring enables labels be applied even to inclined surfaces. Drilled intake holes arranged in a grid are covered by foil. Piercing according to the size of a label

| Universal pad A1321                       |         | 321          |              |  |
|---|---------|--------------|--------------|--|
| Operated with                             |         | SQUIX 4.3, 4 | SQUIX 4.3, 4 |  |
| Label width                               | mm      | 25 - 116     | 25 - 116     |  |
| Label height                              | mm      | 25 - 102     | 25 - 152     |  |
| Surface of an item                        |         | flat         |              |  |
| Height of an item                         |         | flexible     |              |  |
| State of an item at the moment a label is | applied | at rest      |              |  |

# Tamp-on pads, spring-mounted

Pitch of spring enables labels be applied even to inclined surfaces. They are manufactured according to the size of a label.

| Tamp pad                               |            | A1321        |           |  |
|--|------------|--------------|-----------|--|
| Operated with                          |            | SQUIX 4.3, 4 | SQUIX 6.3 |  |
| Label width                            | mm         | 25 - 116     | 50 - 176  |  |
| Label height                           | mm         | 25 - 200     |           |  |
| Surface of an item                     |            | flat         |           |  |
| Height of an item                      |            | flexible     |           |  |
| State of an item at the moment a label | is applied | at rest      |           |  |

#### Blow-on pads

They suit for items sensitive to pressure.

The pad locates approx. 10 mm ahead of an item.

| Blow-on pad                            |            | A2021                          |          |              |
|--|------------|--------------------------------|----------|--------------|
| Operated with                          |            | SQUIX 2 SQUIX 4.3, 4 SQUIX 6.3 |          | SQUIX 6.3    |
| Label width                            | mm         | 25 - 63                        | 25 - 116 |              |
| Label height                           | mm         | 25 - 100 upor                  |          | upon request |
| Surface of an item                     |            | flat                           |          |              |
| Height of an item                      |            | fixed                          |          |              |
| State of an item at the moment a label | is applied | at rest or in motion           |          |              |

# **Roll-on pads**

Labels are fed to below a roller subsequent to printing. The pad moves onto an item.

Labels are carried along by the item and rolled on.

| Roll-on pad                            |            | A1411        |           |
|--|------------|--------------|-----------|
| Operated with                          |            | SQUIX 4.3, 4 | SQUIX 6.3 |
| Label width                            | mm         | 25 - 116     | 50 - 176  |
| Label height                           | mm         | 80 - 200     |           |
| Surface of an item                     |            | flat         |           |
| Height of an item                      |            | flexible     |           |
| State of an item at the moment a label | is applied | in motion    |           |

# S3200 applicator



# Apply labels in real time

S3200 attached to a SQUIX peel-off printer is economic, whether operated semi-automated or integrated to a manufacture plant. Printed labels are set 45° to 95° to the horizontal by a rotary cylinder and applied automatically to an item by a short stroke cylinder.

Life cycles, pre-dispense, compressed air regulation, reliable processes and supporting air correspond to S1000 (see page 22).

| Applicator                    |               | \$3200   |
|-------------------------------|---------------|--|
| Operated with                 |               | SQUIX 2, SQUIX 4.3, SQUIX 4,<br>SQUIX 4.3 M, SQUIX 4 M |
| Rotary cylinder               |               | 45° - 95°  |
| Stroke cylinder               | mm max.       | 30   |
| Depth F<br>of a pad immersing | mm max.       | 5  |
| Compressed air                | bar           | 4.5  |
| Performance labels/n          | nin approx.1) | 20   |

1) calculated using labels 40 mm high and a print speed of 100 mm/s

# Tamp-on pads, blow-on pads

They are manufactured according to the size of a label.

| Tamp-on pad                                       |         | A3200-1100 |              |  |
|---|---------|------------|--------------|--|
| Operated with                                     |         | SQUIX 2    | SQUIX 4.3, 4 |  |
| Label width                                       | mm      | 4 - 63     | 10 - 116     |  |
| Label height                                      | mm      | 6 -        | 80           |  |
| Surface of an item                                |         | fla        | at           |  |
| State of an item at the moment a label is applied |         | at r       | est          |  |
| Blow-on pad                                       |         | A3200      | -2100        |  |
| Operated with                                     |         | SQUIX 2    | SQUIX 4.3, 4 |  |
| Label width                                       | mm      | 10 - 63    | 10 - 116     |  |
| Label height                                      | mm      | 10 - 80    |              |  |
| Surface of an item                                |         | flat       |              |  |
| State of an item at the moment a label is         | applied | at rest or | in motion    |  |

# Demand modules



# \$5104, \$5104 M, \$5106 demand modules

Items can be labeled in motion on a conveyor.

A product sensor detects the target position of a label.

While a label is peeled off, the next one is printed.

The speed of transport has to match with the speed of printing.

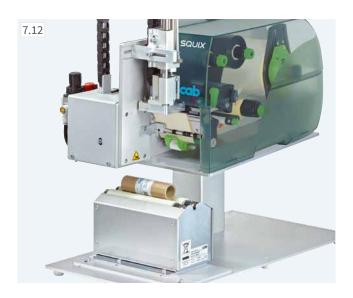
A reflective sensor monitors positioning.

A label sensor can be included or not.

| Demand module  |   | S5104                | S5104 M                  | S5106     |
|--|---|----------------------|--------------------------|-----------|
| Operated with  |   | SQUIX 4.3<br>SQUIX 4 | SQUIX 4.3 M<br>SQUIX 4 M | SQUIX 6.3 |
| Label width  | mm  | 25 - 116             | 4 - 110                  | 50 - 176  |
| Label height   | mm  | 25 - 210             | 10 - 210                 | 25 - 210  |
| Distance of initial print line to the peel-off plate | mm  | m 336 - 518          |                          |           |
| Surface of an item                                   |   | flat                 |                          |           |
| Height of an item                                    |   | fixed                |                          |           |
| State of an item at the moment a label is app        | in motion applied (speed adapted to printing) |                      | nting)                   |           |
| Performance labels/min approx.1)                     |   | 60                   |                          |           |

 $^{1)}$  calculated using labels 100 mm high and a print speed of 100 mm/s

# All-around labeler



#### All-around labeler

Cylindric items can be labeled on a 360° circumference. They are placed onto rollers. Label applications are triggered by a hand switch or a foot switch.

A mount and a cable for plugging a SQUIX printer are included on delivery, so is a foot switch.

| Tamp-on pad                                       |    | A1021            | M1021              |
|---|----|------------------|--------------------|
| Operated with                                     |    | SQUIX 2          | SQUIX 4.3, SQUIX 4 |
| Label width                                       | mm | 25 - 63          | 25 - 116           |
| Label height                                      | mm | n 25 - 140       |                    |
| Diameter of an item                               | mm | n 12 - 40        |                    |
| Surface of an item                                |    | cylindric        |                    |
| State of an item at the moment a label is applied |    | in rotary motion |                    |

# **Assistants** for assembling SQUIX label printers



#### Mount

A label printer system and a jig for retaining an item can be assembled.

# Assembly plate

to assemble a label printer system

# **─**② Profile, aluminum square

40 mm, 80 mm, 120 mm Further lengths may be provided upon request.

#### **─**③ Base plate

to assemble a jig for retaining an item Standard size 500 mm x 255 mm



#### Floor stand

It enables a printer system be ready quickly and flexibly in any manufacture plant. Target positions (i.e. heights, widths) to apply a label can be set in few steps. Four guide rollers provide mobility. At the place of operation, the floor stand can be aligned with the help of feet to adjust.

| Floor stand                     |         | 1600            |
|---------------------------------|---------|-----------------|
| Total height                    | mm      | 1600            |
| Height to apply a label         | mm max. | 1400            |
| Offset to the centre of a label | mm      | 230 - 500       |
| Carriage                        | WxHxDmm | 600 x 140 x 860 |



# **Jig to retain a printer unit**A printer can be fixed to the assembly plate and quick-locked.

# Label printers to feature a special cover or a protective chassis



#### **Conductive ESD surface**

provided for SQUIX 2, SQUIX 4, SQUIX 6

Manufactured according to DIN EN 61340-5-1:2016 to protect from electrostatic charge

Surface resistance according to DIN IEC  $60093 \le 10^4$  ohm. Charge reduces from 1,000 V to 100 V in less than two seconds.

The hinged cover, top plate included, is also a spare part.



# Food application design

provided for SQUIX 4, SQUIX 6

By means of a magnetic cover, splints can be detected by metal detectors or x-ray inspection systems.

Blue color optically differentiates from food.

The entire casing can be manufactured detectable upon request.

Materials comply with food directives such as EU Nr. 10/2011 and FDA CFR 21 177.2600



# Stainless steel chassis for food applications

provided for SQUIX 4, SQUIX 6

Labels are removed through an aperture on the front.

The front cover must be opened and the printer pulled out on telescopic rails for material replacement. Steam jet cleaning only if the entire unit is closed.

Protection class IP69K according to EN 60529



#### Chassis protecting from dust

provided for SQUIX 4, SQUIX 6

Labels are removed through an aperture on the front.

A filtered fan provides excess pressure and prevents from dust entering the chassis.

Protection class IP52 according to EN 60529

**Chassis for cleanroom operation** feature a suction nozzle provided for SQUIX 4, SQUIX 6

# Maintenance



#### **Label sensors**

They can be unlocked by touch and pulled out for cleaning.



#### **Print heads**

They are easy to replace in few steps. In general, no adjustments are required.



#### **Print rollers**

They are quick and easy to loosen for cleaning or removal using a screw.

#### All-purpose tool

It is provided close at hand on a unit for replacing components and assembling periphery.



# Service

Trained cab technicians support worldwide in maintenance and repair.

Send your unit to a cab service point or a selected service partner. Check and repair require just few workdays.

Loan units are provided to bridge gaps.

You prefer performance in your company? Then contact our Service Department: phone +49 721 6626 300, email service.de@cab.de

# **Trainings**

Refresh your know-how of cab devices with regard to efficient operation, service and repair.

In Karlsruhe, training sessions deal with how to operate a unit, design a label, make use of software or printer drivers, program, access a database and integrate in a network or a superior ERP system. Just ask for our current timetable.

We offer trainings adapted to individual demands, either in Karlsruhe or on site in your company.



# Delivery program

# Label printers

| Pos. |       | Item no.   | Materials aligned to the left   |
|------|-------|--|---|
| 1.1  |       | 5977030<br>5977031   | SQUIX 2/300 label printer<br>SQUIX 2/600 label printer  |
| 1.2  |       | 5977032<br>5977033   | SQUIX 2/300P label printer<br>SQUIX 2/600P label printer  |
| 1.3  | :     | 5977014<br>5977015<br>5977001<br>5977002<br>xxxxxxxx.648<br>xxxxxxxx.649                 | SQUIX 4.3/200 label printer<br>SQUIX 4.3/300 label printer<br>SQUIX 4/300 label printer<br>SQUIX 4/600 label printer<br>incl. C1 cutter<br>incl. C2 cutter                                    |
| 1.4  |       | 5977016<br>5977017<br>5977004<br>5977005<br>xxxxxxxx.648<br>xxxxxxx.649                  | SQUIX 4.3/200P label printer<br>SQUIX 4.3/300P label printer<br>SQUIX 4/300P label printer<br>SQUIX 4/600P label printer<br>incl. C1 cutter<br>incl. C2 cutter                                |
| 1.5  |       | 5977034<br>5977035   | SQUIX 6.3/200 label printer<br>SQUIX 6.3/300 label printer  |
| 1.6  | a cop | 5977036<br>5977037   | SQUIX 6.3/200P label printer<br>SQUIX 6.3/300P label printer  |
| 1.7  |       | 5977067  | SQUIX 8.3/300 label printer   |
| 1.8  |       | 5977068  | SQUIX 8.3/300P label printer  |
| 1.9  |       | 5977052<br>5977053<br>xxxxxxxx.648<br>xxxxxxxx.649                                       | SQUIX 4.3/200TD label printer<br>SQUIX 4.3/300TD label printer<br>incl. C1 cutter<br>incl. C2 cutter  |
| 1.10 |       | 5977054<br>5977055<br>xxxxxxxx.648<br>xxxxxxxx.649                                       | SQUIX 4.3/200PTD label printer<br>SQUIX 4.3/300PTD label printer<br>incl. C1 cutter<br>incl. C2 cutter  |
| Pos  | •     | Item no.   | Materials in centered position  |
| 1.11 | :     | 5977018<br>5977019<br>5977010<br>5977011<br>xxxxxxxx.648<br>xxxxxxxx.649<br>xxxxxxxx.659 | SQUIX 4.3/200M label printer<br>SQUIX 4.3/300M label printer<br>SQUIX 4/300M label printer<br>SQUIX 4/600M label printer<br>incl. C1 cutter<br>incl. C2 cutter<br>incl. P3 perforation cutter |
| 1.12 |       | 5977022<br>5977023<br>5977007<br>5977008<br>xxxxxxxx.648<br>xxxxxxxx.649<br>xxxxxxxx.659 | SQUIX 4.3/200MP label printer SQUIX 4.3/300MP label printer SQUIX 4/300MP label printer SQUIX 4/600MP label printer incl. C1 cutter incl. C2 cutter incl. P3 perforation cutter               |
| Pos  | •     | Item no.   | UHF RFID module provided  |
| 1.13 |       | XXXXXXX.406<br>XXXXXXX.407<br>XXXXXXX.408<br>XXXXXXX.409                                 | Standard UHF RFID module On metal UHF RFID module High sensitivity UHF RFID module Dual UHF RFID module (standard and on metal)   |
| Pos  | •     | Item no.   | Separator provided (textiles)   |
| 1.14 |       | 5977024<br>5977012<br>5977025  | SQUIX 4.3/300MT label printer<br>SQUIX 4/300MT label printer<br>SQUIX 4/600MT label printer   |

| Pos. |        | Item no.    | Options provide | d   |
|------|--------|-------------|-----------------|---|
| 1.15 | O Boar | ххххххх.124 | SQUI            | X 2/xxx-ESD<br>X 4/xxx-ESD<br>X 6/xxx-ESD |
| 1.16 |        | ххххххх.122 |                 | X 4/xxx-FOOD<br>X 6/xxx-FOOD              |

|                         | Scope of delivery  |
|-------------------------|--|
|                         | Label printer Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Instructions DE / EN   |
|                         | Available online   |
| https://setup.cab.de/en | Instructions in 30 languages Configuration manuals DE / EN / FR Service manuals DE / EN Spare parts lists DE / EN Programming manual EN Windows printer drivers certified WHQL for Windows Vista Server 2008 Windows 7 Server 2008 R2 Windows 8 Server 2012 Windows 8.1 Server 2012 R2 Windows 10 Server 2016 Server 2019 Apple Mac OS X printer drivers DE / EN / FR Linux printer drivers DE / EN / FR cablabel S3 Lite software cablabel S3 Viewer Database Connector |

# Wear parts

| we   | wear parts  |  |  |  |  |
|------|-------------|--|--|--|--|
| Pos. |             | Item no.   | Designation  |  |  |
|      |             | 5977384.001<br>5977385.001                               | Print head 2/300<br>Print head 2/600   |  |  |
|      |             | 5977382.001<br>5977383.001                               | Print head 4.3/200<br>Print head 4.3/300   |  |  |
| 2.1  | A 2 1 32 14 | 5977444.001<br>5977380.001                               | Print head 4/300<br>Print head 4/600   |  |  |
|      |             | 5977386.001<br>5977387.001                               | Print head 6.3/200<br>Print head 6.3/300   |  |  |
|      |             | 5987351.001  | Print head 8.3/300   |  |  |
| 2.2  |             | 5954102.001<br>5954180.001<br>5954245.001<br>5954103.001 | DR2 print roller<br>DR4 print roller<br>DR6 print roller<br>DR8 print roller                     |  |  |
| 2.3  |             | 5954985.001  | DRS4 print roller  |  |  |
| 2.4  |             | 5954104.001<br>5954183.001<br>5954246.001<br>5981495.001 | RR2 deflection roller<br>RR4 deflection roller<br>RR6 deflection roller<br>RR8 deflection roller |  |  |
| Pos. |             | Item no.   | On metal operation,<br>RFID antenna assembled  |  |  |
| 2.5  | 0 1 2 15    | 5987177.001<br>5987178.001<br>5987179.001<br>5987180.001 | Print head 4.3/200<br>Print head 4.3/300<br>Print head 4/300<br>Print head 4/600                 |  |  |

# Delivery program

# **Accessories**

| Pos. | Item no.                                  | Designation   |
|------|---|---|
|      | 5953700.001                               | DR4-M30 print roller  |
| 2.6  | 5953701.001                               | DR4-M60 print roller  |
|      | 5953702.001                               | DR4-M80 print roller  |
| 2.7  | 5954978.001<br>5954985.001<br>5954979.001 | DRS2 print roller<br>DRS4 print roller<br>DRS6 print roller                                     |
| cob  | 6010186                                   | External control panel  |
| 2.8  | 5907718.850                               | USB cable, 1.8 m  |
|      | 5907730.850                               | USB cable, 3 m  |
|      | 5907750.850                               | USB cable, 5 m  |
| 4 .5 | 5907760.850                               | USB cable, 11 m   |
|      | 5907765.850                               | USB cable, 16 m   |
| 2.9  | 5977530.001                               | Label sensor 4,5  |
| 2.10 | 6010840<br>6010841<br>6010842             | Print head pressing system 2L<br>Print head pressing system 4L<br>Print head pressing system 6L |
| 2.11 | 5977797<br>5977339                        | Antistatic brush 2"<br>Antistatic brush 4" / 6"   |
| 2.12 | 5959622                                   | Adapter 100   |
| 2.13 | 5977370                                   | SD memory card  |
| 2.14 | 5977730                                   | USB stick   |
| 2.15 | 5978912.001                               | USB WLAN stick<br>2.4 GHz 802.11b/g/n   |
| 2.16 | 5977731                                   | USB WLAN stick with a rod antenna<br>2.4 GHz 802.11b/g/n + 5 GHz a/n/ac                         |
| 2.17 | 5977732                                   | USB Bluetooth adapter   |
| Pos. | Item no.                                  | Peeling off   |
| 2.18 | 5977585                                   | PS800 present sensor  |
| 2.19 | 5984482<br>5977538                        | PS 2/900 present sensor<br>PS 4/900 present sensor  |
| 2.20 | 5977735                                   | PS1000 MP present sensor  |
| 2.21 | 5977798<br>5978908<br>5977799             | Extended DP210 peel-off plate<br>Extended DP410 peel-off plate<br>Extended DP610 peel-off plate |
| 2.22 | 5978909                                   | Reflective product sensor   |
| Pos. | Item no.                                  | Interfaces  |
| 3.1  | 5977767                                   | Digital I/O interface   |
| 3.2  | 5917651                                   | I/O interface plug,<br>SUB-D, 25 pins   |
| 3.3  | 5948205                                   | Label selection - I/O box   |

| Pos.  |     | Item no.                                  | Switches  |
|-------|-----|---|---|
| 3.4   |     | 5955710                                   | TR2 hand switch   |
| 3.5   | P   | 5955711                                   | Foot switch   |
| Pos.  |     | Item no.                                  | Connecting cable  |
| 4.1   |     | 5550818                                   | RS232-C cable<br>9/9 pins, 3 m  |
| Pos.  |     | Item no.                                  | Cutting, perforating  |
| 5.1   |     | 5984550<br>5984565                        | CSQ 401 cutter incl. a tray<br>CSQ 402 cutter incl. a tray                          |
| 5.2   |     | 5984130                                   | PSQ 403 perforation cutter  |
| 5.3   |     | 5979032<br>5978900<br>5979033<br>5984100  | CU200 cutter<br>CU400 cutter incl. a tray<br>CU600 cutter<br>CU800 cutter           |
| 5.4   |     | 5978901<br>5978920                        | PCU400/2,5 perforation cutter<br>PCU400/10 perforation cutter                       |
| Pos.  |     | Item no.                                  | Stacking, verifying   |
| 5.5 — | 1   | 5978902                                   | ST400 M stacker providing a cutter and a base frame                                 |
| 3.3   |     | ххххххх                                   | Base frame according to label W x H   |
| 5.6   |     | 5977840                                   | CC200-SQ scanner  |
| Pos.  |     | Item no.                                  | Rewinding, unwinding  |
| 6.1   |     | 5979031<br>5978903                        | RG200 guide plate<br>RG400 guide plate  |
| 6.2   | SA. | 5948102.597<br>5943251.597<br>5945802.597 | External ER1/210 rewinder<br>External ER2/210 rewinder<br>External ER3/210 rewinder |
| 6.3   | SA. | 5946090<br>5946420                        | External ER4/300 rewinder<br>External ER6/300 rewinder                              |
| 6.4   |     | 5946091<br>5946421                        | External EU4/300 unwinder<br>External EU6/300 unwinder                              |
| 6.5   |     | 5978943                                   | Kit to adapt ER4, ER6 and EU4, EU6  |

**x** - part no. specific to order

# Delivery program

# Applicators, demand modules

| Pos  |         | Item no.  | Designation   |
|------|---------|---|---|
| 7.1  | Axona   | 5987150.xxx   | AXON 2 tube applicator providing<br>a type 56.1 peel-off plate (Ø 14 mm),<br>a TRV 14 transport roller,<br>a tray   |
| 7.2  | Acces 1 | 5988000   | WICON wrap-around applicator<br>Included in an accessorial kit are<br>a DR4-M60 print roller,<br>a WICON peel-off plate.  |
| 7.3  |         | 5976086<br>5976087<br>5976088                               | S1000-220 applicator<br>S1000-300 applicator<br>S1000-400 applicator  |
|      |         | 5949072   | Universal A1021 pad<br>max. 70 mm x 60 mm   |
| 7.4  | A       | 5949075   | Universal A1021 pad<br>max. 90 mm x 90 mm   |
|      |         | ххххххх   | A1021 tamp-on pad<br>according to label W x H   |
|      |         | 5949076   | Universal A1321 pad<br>max. 116 mm x 102 mm   |
| 7.5  |         | 5949077   | Universal A1321 pad<br>max. 116 mm x 152 mm   |
|      |         | ххххххх   | A1321 tamp-on pad according to label W x H  |
| 7.6  | di      | ххххххх   | A2021 blow-on pad according to label W x H  |
| 7.7  |         | хххххх  | A1411 roll-on pad according to label W x H  |
| 7.8  |         | 5976085   | S3200 applicator  |
| 7.9  |         | хххххх  | A3200-1100 tamp-on pad according to label W x H   |
| 7.10 | Ai      | хххххх  | A3200-2100 blow-on pad according to label W x H   |
| 7.11 |         | 5976083<br>5976083.242<br>5987120<br>5979035<br>5979035.242 | S5104 demand module incl. label sensor<br>S5104 demand module, no label sensor<br>S5104 M demand module<br>S5106 demand module incl. label sensor<br>S5106 demand module, no label sensor |
| 7.12 |         | 5976084<br>5979089<br>5550999<br>8930933.001                | All-around labeler  Mount Cable for plugging a SQUIX printer Foot switch  |

# **Assembly assistants**

| Pos. |   | Item no.                      | Designation  |
|------|---|-------------------------------|--|
| 8.1  | 1 | 5979036<br>5978910<br>5978923 | Assembly plate SQUIX 2<br>Assembly plate SQUIX 4<br>Assembly plate SQUIX 6   |
| 8.2  | Ī | 5958365<br>5965929<br>5971136 | Profile 40 mm Profile 80 mm Profile 120 mm further lengths may be provided upon request  |
| 8.3  |   | 5961203                       | Base plate<br>500 mm x 255 mm  |
| 8.4  |   | 5947400                       | Floor stand 1600 mm  |
| 8.5  | 3 | 5979037<br>5978922<br>5979038 | Jig for retaining a SQUIX 2 printer unit<br>Jig for retaining a SQUIX 4 printer unit<br>Jig for retaining a SQUIX 6 printer unit |

# **Special covers**

| Pos | •        | Item no.                                  | Designation  |
|-----|----------|---|--|
| 9.1 | © should | 5977771.001<br>5977763.001<br>5977772.001 | Hinged cover SQUIX 2-ESD<br>Hinged cover SQUIX 4-ESD<br>Hinged cover SQUIX 6-ESD |
| 9.2 | and and  | 5977764.001<br>5977774.001                | Hinged cover SQUIX 4-FOOD<br>Hinged cover SQUIX 6-FOOD                           |

# **Protective chassis**

| Pos. |  | Item no.   | Designation  |
|------|--|--|--|
| 9.3  |  | 5979071<br>5979305                               | Stainless steel chassis SQUIX 4<br>Stainless steel chassis SQUIX 6   |
| 9.4  |  | 5979080<br>5979300<br>5979080.126<br>5979300.126 | Chassis SQUIX 4 220 V protecting from dust<br>Chassis SQUIX 6 220 V protecting from dust<br>Chassis SQUIX 4 for cleanroom operation<br>Chassis SQUIX 6 for cleanroom operation |

# Label software

| Pos.  | Item no.   | Designation   |
|-------|--|---|
|       | Bundle   | ccablabel S3 Lite<br>(download on cab.de/en)  |
| 11.7  | 5588001<br>5588100<br>5588101<br>5588150<br>5588151<br>5588152 | cablabel S3 Pro 1 WS<br>cablabel S3 Pro 5 WS<br>cablabel S3 Pro 10 WS<br>cablabel S3 Pro 1 additional licence<br>cablabel S3 Pro 4 additional licences<br>cablabel S3 Pro 9 additional licences |
|       | 5588002<br>5588105<br>5588106<br>5588155<br>5588156<br>5588157 | cablabel S3 Print 1 WS cablabel S3 Print 5 WS cablabel S3 Print 10 WS cablabel S3 Print 1 additional licence cablabel S3 Print 4 additional licences cablabel S3 Print 9 additional licences    |
| 11.10 | in preparation   | cablabel S3 Print Server  Programming manual EN, printed copy   |

# Overview of cab products

Label printers MACH1, MACH2



Label printers EOS 2



Label printers EOS 5



Label printers MACH 4S



Label printers **SQUIX 2** 



Label printers **SQUIX 4** 



Label printers SQUIX 6.3



Label printers **SQUIX 8.3** 



Label printers **XD Q** double-sided



Label printers **XC** two-colored



Print and apply systems HERMES Q



Print and apply systems Hermes C two-colored



Tube labeling systems AXON 1



Print modules PX Q



Labels and ribbons



Label software cablabel S3



Label dispensers HS, VS



Labeling heads



Marking lasers



Laser marking systems



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