

Status: 12/2023

**cab**  
*we identify more*



Label printers  
for industrial operation

**SQUIX**  
Made in Germany

Scopes of delivery, designs and technical data correspond to the date of this publication. They are subject to change. Catalogue data do not represent any warranty or guarantee.



See current data on  
[www.cab.de/en/squix](http://www.cab.de/en/squix)

## 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

1.1, 1.2



## Slim ones

for printing small labels

Label printer		SQUIX 2	
Print resolution	dpi	300	600
Print speed	mm/s max.	250	150
Print width	mm max.	56.9	54.1

1.3, 1.4



## Universal ones

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

Label printers		SQUIX 4.3		SQUIX 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.

1.5, 1.6



## Wide ones

for printing Odette, UCC and GS1 labels in logistics operations

Label printer		SQUIX 6.3	
Print resolution	dpi	203	300
Print speed	mm/s max.	250	250
Print width	mm max.	168	162.6

1.7, 1.8



## 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



*SQUIX 4 P peel-off printer  
providing an internal rewinder*

## 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

## 4 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.

## 9 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.

# 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		SQUIX 4.3 M SQUIX 4.3 MP		SQUIX 4 M 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

## Differences to label printers 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 rewriter



# UHF RFID label printers guiding materials in centered position

1.13



Basic unit



Peel-off unit

## 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
- 3) **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		SQUIX 4 M	
		SQUIX 4.3 MP	UHF RFID	SQUIX 4 MP	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).



See further information on [www.cab.de/en/squix-rfid](http://www.cab.de/en/squix-rfid)



SQUIX 4 M UHF RFID label printer

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

1.14



Basic unit

## 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
  - 2 **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
  - 3 **Printer status:** ready, pause, number of labels printed in a print job, label peeled off, awaiting external start signal
  - 4 **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
  - 5 **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
  -  Stop and delete all print jobs
  -  Interrupt and continue print job
  -  Reprint last label
  -  Label feed



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** **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

**6** **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**

Start printing / applying label

Print first label

Reprint

Delete print job

Label removed

Stop printing /applying label

Pause

Reset

**PNP, NPN outputs**

Unit ready

Print data available

Initial / upper end position

Paper feed ON

Label peeled off

Label apply / lower end position

Ribbon ending

Collective error

# Technical data

● typical ○ possible ■ standard □ option

Materials guided aligned to the left		Type	1.1, 1.2		1.3, 1.4			1.5, 1.6		1.7, 1.8	
			SQUIX 2		SQUIX 4.3		SQUIX 4	SQUIX 6.3		SQUIX 8.3	
Print method	Thermal transfer		●	●	●	●	●	●	●	●	
	Direct thermal		○	-	●	●	○	-	●	●	
Print resolution		dpi	300	600	203	300	300	600	203	300	
Print speed		mm/s max.	250	150	300	300	300	150	250	250	
Print width		mm max.	56.9	54.1	104	108.4	105.7	105.7	168	162.6	
Initial print	Distance to locating edge	mm	2		2.8	1.2	2		0.5	3.2	
<b>Material<sup>1)</sup></b>											
Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●		●			●		●	
Direct thermal paper / cardboard			○	-	●	●	○	-	●	●	
Shrink tube	ready for use		-		○			-		-	
	continuous, pressed		○		○			-		-	
Textile tape			○		○			-		-	
Finishing	Roll, fanfold		●		●			●		●	
	Roll diameter	mm max.	205								
	Core diameter	mm	38.1 - 76								
	Winding		outside or inside								
Label	Width	mm	4 - 63		20 - 116			46 - 176		46 - 220	
	Height no label backfeed <sup>2)</sup>	mm at least	4		4			6		25	
	label backfeed <sup>2)</sup>	mm at least	4		6			12		25	
	label backfeed, peel-off	mm at least	6		6			12		25	
Liner	Thickness	mm	0.03 - 0.6								
	Width	mm	24 - 67		24 - 120			50 - 180		50 - 235	
Continuous	Thickness	mm	0.03 - 0.16								
	Width	mm	24 - 67		24 - 120			50 - 180		50 - 235	
Shrink tube	Thickness	mm	0.03 - 0.5								
	Weight (cardboard)	g/m <sup>2</sup> max.	300								
	Width ready for use	mm max.	-		120			-		-	
Ribbon <sup>3)</sup>	continuous, pressed	mm	24 - 67		24 - 85			-		-	
	Thickness	mm max.	1.1		1.1			-		-	
Internal rewinder provided on peel-off units	Color layer		outside or inside								
	Roll diameter	mm max.	80								
	Core diameter	mm	25.4								
	Length	m max.	600							360	
	Width	mm	25 - 67		25 - 114			50 - 170		220	
Outside diameter	mm max.	142									
Core diameter	mm	40									
Winding		outside									
<b>Printer dimensions, weights</b>											
Width x Height x Depth	mm	200 x 288 x 460			252 x 288 x 460			312 x 288 x 460		352 x 288 x 460	
Weight	kg	9			10			14		15	
<b>Label sensors, position indicators</b>											
Transmissive sensor	detecting	labels, punch marks, materials ending, print marks on translucent materials									
Reflective sensor	from below or top	detecting	labels, materials ending, print marks on non-translucent materials								
Sensor distance	to locating edge	aligned to the left	5 - 26		5 - 60			5 - 60		5 - 60	
Material passage		mm max.	2 (5 are an option)								
<b>Interfaces</b>											
RS232-C	1,200 to 230,400 baud / 8 bit		■								
USB 2.0 Hi-Speed device for plugging a PC			■								
Ethernet	10/100 Mbit/s		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV, DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC								
1 USB host on the control panel	for plugging		a service key, an USB stick, USB WLAN stick, USB Bluetooth adapter								
2 USB hosts on the back of a unit	for plugging		a keyboard, barcode scanner, an USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, USB Bluetooth adapter, external control panel								
USB host, 24 VDC, for peripheral plugging			■								
Digital I/O interface providing 8 inputs and 8 outputs			□								
<b>Operating data</b>											
Voltage			100 - 240 VAC, 50/60 Hz, PFC								
Consumption of power			<10 W in standby / 100 W in typical operation / max. 200 W								
Temperature / humidity	Operation		+5 - 40°C / 10 - 85 %, not condensing								
	Stock		0 - 60°C / 20 - 85 %, not condensing								
	Transport		-25 - 60°C / 20 - 85 %, not condensing								
Approvals			CE, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, BSMI, BIS, KC-Mark BIS, KC-Mark not available for SQUIX 8.3								
<b>Control panel</b>											
Color LCD touchscreen	Diagonal	"	4.3								
	Resolution Width x Height	px	272 x 480								

<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.

# Technical data

● typical ○ possible ■ standard □ option

Materials guided in centered position		Type	1.11, 1.12				1.13, 1.14				1.15				
			SQIUX 4.3 M		SQIUX 4 M		SQIUX 4.3 M UHF RFID		SQIUX 4 M UHF RFID		SQIUX 4.3 MT		SQIUX 4 MT		
Print method	Thermal transfer Direct thermal		●	●	●	●	●	●	●	●	●	●	●		
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	105.7		
Initial print	Distance to locating edge	mm	centered												
<b>Material<sup>1)</sup></b>															
Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec															
Direct thermal paper / cardboard															
RFID labels according to separate specification															
Shrink tube	ready for use		●	●	○	-	●	●	○	-	●	○	-		
	continuous, pressed		●	●	○	-	●	●	○	-	●	○	-		
Textile tape			○	○	○	-	○	○	○	-	○	○	-		
Finishing	Roll, fanfold		●	●	○	-	●	●	○	-	●	○	-		
	Roll diameter	mm max.	205												
	Core diameter	mm	38.1 - 76												
	Winding		outside or inside												
Label	Width	mm	4 - 110				4 - 110				4 - 110				
	Height no label backfeed <sup>2)</sup>	mm at least	3				3				4				
	label backfeed <sup>2)</sup>	mm at least	4				4				6				
	label backfeed, peel-off	mm at least	6				6				-				
	Thickness	mm					0.03 - 0.6								
Liner	Width	mm	9 - 114				9 - 114				9 - 114				
	Thickness	mm					0.03 - 0.16								
Continuous	Width	mm	9 - 114				-				9 - 114				
	Thickness	mm	0.03 - 0.5				-				0.03 - 0.5				
	Weight (cardboard)	g/m <sup>2</sup> max.	300				-				300				
Shrink tube	Width ready for use	mm max.	114				-				114				
	continuous, pressed	mm	4 - 85				-				4 - 85				
	Thickness	mm max.	1.1				-				1.1				
Hose	continuous, round or oval	max. height mm	5				-				-				
Ribbon <sup>3)</sup>	Color layer		outside or inside												
	Roll diameter	mm max.	80												
	Core diameter	mm	25.4												
	Length	m max.	600												
	Width	mm	25 - 114												
<b>Internal rewinder provided on peel-off units</b>															
Outside diameter	mm max.						142				-				
Core diameter	mm						40				-				
Winding							outside				-				
<b>Printer dimensions, weights</b>															
Width x Height x Depth	mm						252 x 288 x 460				252 x 288 x 460				
Weight	kg						10				10				
<b>Label sensors, position indicators</b>															
Transmissive sensor	detecting		labels, punch marks, materials ending, print marks on translucent materials												
Reflective sensor	from below or top	detecting	labels, materials ending, print marks on non-translucent materials												
Sensor distance	to locating edge	centered position mm	0 - 55												
Material passage	mm max.		2 (5 are an option)												
<b>Interfaces</b>															
RS232-C	1,200 to 230,400 baud / 8 bit		■												
USB 2.0	Hi-Speed device for plugging a PC		■												
Ethernet	10/100 Mbit/s		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC												
1 USB host	on the control panel	for plugging	a service key, an USB stick, USB WLAN stick, USB Bluetooth adapter												
2 USB hosts	on the back of a unit	for plugging	a keyboard, barcode scanner, an USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, USB Bluetooth adapter, external control panel												
USB host	24 VDC, for peripheral plugging		■												
Digital I/O	interface providing 8 inputs and 8 outputs		□												
<b>Operating data</b>															
Voltage			100 - 240 VAC, 50/60 Hz, PFC												
Consumption of power			<10 W in standby / 100 W in typical operation / max. 200 W												
Temperature / humidity	Operation		+5 - 40°C / 10 - 85 %, not condensing												
	Stock		0 - 60°C / 20 - 85 %, not condensing												
	Transport		-25 - 60°C / 20 - 85 %, not condensing												
Approvals			CE, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, BSMI, BIS, KC-Mark												
<b>Control panel</b>															
Color LCD touchscreen	Diagonal	"	4.3												
	Resolution Width x Height	px	272 x 480												

<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.

# Technical data

■ standard □ option

Electronics		
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 time and date, real-time clock		■
Data kept in memory (e.g. serial numbers) when power 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 mode - Orientation Interpreter
Status bar		
	Receive data Record data stream Prior warning to a ribbon ending SD memory card plugged USB stick plugged	Bluetooth WLAN Ethernet USB slave Time
Controls		
	Ribbon winding Prior warning to a ribbon ending Ribbon ending Running out of material	Print head voltage Print head temperature Print head open Pinch roller open (peel-off unit, separator) Peripheral error
Test routines		
System diagnostics	upon startup, detection of print head included	
Information display, test printout, analysis	Status printout Fonts list List of units WLAN status	Test grid Label profile List of events Monitor mode
Status reports	- Printout of print durations, running hours, etc. - Status of a unit requested by software command - Display of errors related to a network, barcode or peripheral device, as well as links missing	
Fonts		
Integral	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Cond. Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
For storing	TrueType fonts	
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai	
Bitmap	1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations	
Vector / TrueType	0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1°	
Styles	bold, italic, underlined, outline, inverse - depending on the font type	
Character spacing	proportional or monospace	

Graphics		
Elements	lines, arrows, rectangles, circles, ellipses - filled and gradient	
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Codes		
1D barcodes (linear)	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128 / GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM 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, stacked codes	DataMatrix DataMatrix Rectangle Extension 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, stacked, omni-directional  All codes may vary in height, modular width and ratio. 0°, 90°, 180°, 270° orientations  Feasibility of check digits, plain text printouts and start/stop coding depends on the type of code.	
Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
Running also with	CODESOFT Software Spectrum NiceLabel BarTender	
Stand-alone operation		■
Windows printer drivers for	Windows 10 Windows 11  Certification WHQL in preparation	Server 2016 Server 2019 Server 2022 ■
Apple printer drivers	Mac OS X 10.6 or any later release	
Linux printer drivers	CUPS 1.2 or any later release	
Programming	JScript printer language abc Basic Compiler ZPL II (Datastream be tested in advance)	■ ■ □
Integration	SAP Database Connector	■ ■
Administration	Printer control Configuration on the Intranet and Internet	■ ■

Free and Open Source software in cab products:  
[www.cab.de/opensource](http://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.

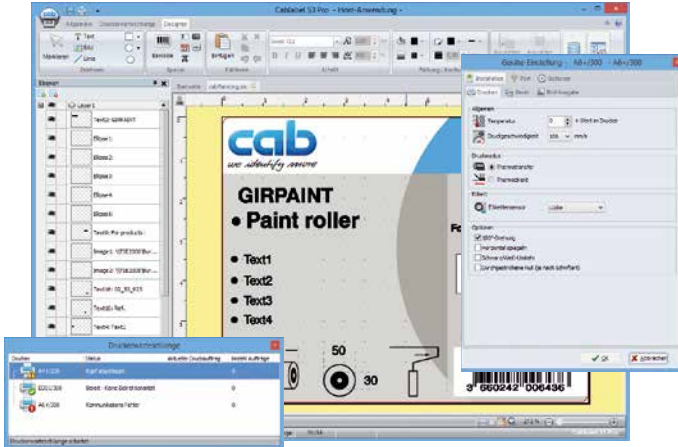


See further information on  
[www.cab.de/en/opcu](http://www.cab.de/en/opcu)

# cablabel S3 software

## Design, print, administrate

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



See further information on [www.cab.de/en/cablabel](http://www.cab.de/en/cablabel)

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



Free download on [www.cab.de/en/support](http://www.cab.de/en/support)



## Programming



### JScript

cab printers embed JScript language.

Download free manual on [www.cab.de/en/programming](http://www.cab.de/en/programming)



### abc Basic Compiler

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

## Integration



### Printer Vendor Program

cab as a member of this program developed a replace method for controlling cab printers from SAP<sup>1)</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.

<sup>1)</sup> SAP and associated logos are trademarks or registered trademarks of SAP SE.

# Overview of accessories

● typical ○ possible ■ standard □ option

Pos.		Basic unit	Peel-off unit	1.1, 1.2	1.3, 1.4	1.5, 1.6	1.7, 1.8	1.11, 1.12	1.13	1.14
				SQUIX 2	SQUIX 4.3 SQUIX 4	SQUIX 6.3	SQUIX 8.3	SQUIX 4.3 M SQUIX 4 M	SQUIX 4.3 M UHF RFID	SQUIX 4.3 MT SQUIX 4 MT 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	●	-	○	○	○	○	□	-	-
2.10	Downscale print head pressing system	●	●	○	○	○	○	○	○	○
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	●	●	□	□	□	□	□	□	□
<b>Peeling off</b>										
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	-	●	□	□	□	□	□	□	-
<b>Interfaces, switches</b>										
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	●	●	□	□	□	□	□	□	□
<b>Connecting cable</b>										
4.1	RS232-C cable	●	●	□	□	□	□	□	□	□
<b>Cutting, perforating</b>										
5.1	CSQ 401 / CSQ 402 cutters	●	○	-	■ or □	-	-	■ or □	■ or □	-
5.2	PSQ 403 perforation cutter	●	○	-	-	-	-	□	□	-
5.3	CU200, CU400, CU600, CU800 cutters	●	○	□	□	□	□	□	□	□
5.4	PCU400/2,5, PCU400/10 perforation cutters	●	○	-	□	-	-	□	□	□
<b>Stacking, verifying</b>										
5.5	ST400 M stacker providing a cutter and a base frame	●	○	-	-	-	-	□	□	□
5.6	CC200-SQ scanner	●	●	□	□	□	□	□	□	-
<b>Rewinding, unwinding</b>										
6.1	RG200, RG400 guide plates	-	●	□	□	-	-	□	□	-
6.2	External ER1/210, ER2/210 <sup>1)</sup> , ER3/210 rewinders	●	○	-	□	□	□	○	○	-
6.3	External ER4/300, ER6/300 rewinders	●	○	-	□	□	-	○	○	-
6.4	External EU4/300, EU6/300 unwinders	●	○	-	□	□	-	□	□	□
6.5	Kit to adapt a rewriter or an unwinder	●	○	-	□	□	□	□	□	□
<b>Tube labeling</b>										
7.1	AXON 2 tube applicator	-	●	-	-	-	-	□	-	-
<b>Wrap-around labeling</b>										
7.2	WICON wrap-around applicator	-	●	-	-	-	-	□	-	-
<b>Applicators, demand modules</b>										
7.3	S1000-220, -300, -400 applicators	-	●	□	□	□	-	□	□	-
7.8	S3200 applicator	-	●	□	□	-	-	□	□	-
7.11	S5104, S5104M, S5106 demand modules	-	●	-	□	□	-	□	-	-
7.12	All-around labeler	-	●	□	□	-	-	□	□	-
<b>Assembly assistants</b>										
8.1	Assembly plate	-	●	□	□	-	-	□	□	-
8.2	Profiles 40 mm, 80 mm, 120 mm	-	●	□	□	-	-	□	□	-
8.3	Base plate 500 mm x 255 mm	-	●	□	□	-	-	□	□	-
8.4	Floor stand	-	●	□	□	□	□	□	□	-
8.5	Jig for retaining a printer unit	-	●	□	□	□	□	□	□	-
<b>Special covers, protective chassis</b>										
9.1	ESD surface	●	●	□	□	□	-	□	□	□
9.2	Food applications	●	●	-	□	□	-	□	□	□
9.3	Stainless steel chassis for food applications	●	●	-	□	□	-	□	□	-
9.4	Chassis protecting from dust	●	●	-	□	□	-	□	□	-
	Chassis for cleanroom operation	●	●	-	□	□	-	□	□	-

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

# Accessories

<p>2.6</p> 	<p><b>DR4-M30 print roller</b> Liner and continuous materials as wide as 30 mm</p> <p><b>DR4-M60 print roller</b> Liner and continuous materials as wide as 60 mm</p> <p><b>DR4-M80 print roller</b> Liner and continuous materials as wide as 80 mm</p> <p>Synthetic rubber coating enables highly accurate print images.</p>	<p>2.18</p> 	<p><b>PS800 present sensor</b> for use with materials guided aligned to the left</p> <p>Labels are detected in peel-off position. As soon as a label has been removed, the next one is automatically printed.</p> <p>The minimum width of a label in use is 16 mm, its minimum height 6 mm.</p> <p>Distant 7 mm to the locating edge</p>
<p>2.7</p> 	<p><b>DRS4 print roller</b> Materials as wide as 120 mm</p> <p>Silicone coating enables extra long life cycles, accepting higher tolerances in print image accuracy.</p>	<p>2.19</p> 	<p><b>PS900 present sensor</b> for use with materials guided aligned to the left or in centered position</p> <p>The moveable sensor qualifies for small or customized labels. As soon as a label has been removed, the next one is automatically printed.</p> <p>The minimum width of a label in use is 4 mm, its minimum height 6 mm.</p> <p>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</p>
<p>2.8</p> 	<p><b>External control panel</b> If the control panel of a printer cannot be accessed, an additional external one can be plugged.</p> <p>Same functionality as on a printer</p> <p>Landscape mode or portrait mode</p> <p>Operability as targeted, either on an external panel or on a printer</p> <p>USB 2.0 Hi-Speed device for plugging a printer cab provides specified <b>USB cables</b> for power supply. Lengths are 1.8 m to 16 m.</p>	<p>2.20</p> 	<p><b>PS1000 MP present sensor</b> for use with materials guided in centered position</p> <p>Labels are detected in peel-off position. As soon as a label has been removed, the next one is automatically printed.</p> <p>The minimum width of a label in use is 4 mm, its minimum height 6 mm. Centered position</p>
<p>2.9</p> 	<p><b>Label sensor 4.5</b> Only for operation on a SQUIX 4/4.3 M printer guiding materials in centered position. Maximum material passage 5 mm</p>	<p>2.21</p> 	<p><b>Extended DP210, DP410, DP610 peel-off plates</b> 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 signal. A present sensor cannot be used.</p>
<p>2.10</p> 	<p><b>Downscale print head pressing system</b> Direct thermal printing requires less pressure exerted to a print head, resulting in a longer life cycle of the latter.</p>	<p>2.22</p> 	<p><b>Reflective product sensor</b> Detecting products automatically on a conveyor</p>
<p>2.11</p> 	<p><b>Antistatic brush</b> It dissipates electrostatic charge after printing, in particular if synthetic materials are in use.</p>	<p>3.1</p> 	<p><b>Digital I/O interface</b> Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.</p>
<p>2.12</p> 	<p><b>Adapter 100</b> if operating label rolls with a core diameter of 100 mm and outside diameter succeeds 180 mm</p>	<p>3.2</p> 	<p><b>I/O interface plug, SUB-D, 25 pins</b> All control signals connect to the I/O interface using clamping screws.</p>
<p>2.13</p> 	<p><b>SD memory card</b></p>	<p>3.3</p> 	<p><b>Label selection - I/O box</b> A maximum of 16 labels per box can be selected from a memory card 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 PLC processes via abc programming.</p>
<p>2.14</p> 	<p><b>USB stick</b></p>	<p>3.4</p> 	<p><b>TR2 hand switch</b> For plugging to a digital I/O interface</p>
<p>2.15</p> 	<p><b>USB WLAN stick</b> 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode</p>	<p>3.5</p> 	<p><b>Foot switch</b> For plugging to a digital I/O interface</p>
<p>2.16</p> 	<p><b>USB WLAN stick with a rod antenna</b> to extend the range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode</p>	<p>4.1</p> 	<p><b>RS232-C cable</b> 9/9 pins, 3 m</p>
<p>2.17</p> 	<p><b>USB Bluetooth adapter</b></p>		



# Cutting, perforating

5.1



CSQ cutter

5.2



PSQ perforation cutter

5.3



CU cutter

5.4



PCU perforation cutter

**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	PSQ 403
<b>Perforation cutter</b>				
Operated with		SQUIX 4.3, SQUIX 4 SQUIX 4.3 M, SQUIX 4 M		SQUIX 4.3 M, SQUIX 4 M
Perforation 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/m <sup>2</sup> max.	200	300	300
Thickness	mm	0.7	1.1	1.5
Cutting length	mm at least	10		
Material passage	mm max.	2.0	2.0	2.0
Performance*	cuts/min	120	200	200
Controls		no final cutter position, cover off cutter		
<b>Tray</b>				
Label height	mm max.	100		

\* 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	CU400	PCU400	CU600	CU800
<b>Perforation cutter</b>				2.5 10		
Operated with		SQUIX 2	SQUIX 4.3, SQUIX 4 SQUIX 4.3 M, SQUIX 4 M SQUIX 4.3 MT, SQUIX 4 MT		SQUIX 6.3	SQUIX 8.3
Perforation Distance between off-cuts	mm	-	-	2.5 10	-	-
Width of off-cuts	mm	-	-	0.5	-	-
Material Width	mm max.	67	120	114	85	180
Weight (cardboard)	gr/m <sup>2</sup>	60 - 300				
Thickness	mm	0.05 - 1.1			0.05 - 0.5	
Cutting length	mm at least	5				
Material passage	mm max.	2.5				
Performance*	cuts/min	100				
Printing stops if		no final cutter position				
<b>Tray</b>						
Label height	mm max.	-	100	-	-	-

\* 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

5.5



### ST400 M stacker providing a cutter

- 1 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		<b>SQUIX 4.3 M, SQUIX 4 M SQUIX 4.3 MT, SQUIX 4 MT</b>
Material	Width	mm
	Weight (cardboard)	gr/m <sup>2</sup>
	Thickness	mm
Cutting length	mm	20 - 150
Material passage	mm max.	1.2
Performance*	cuts/min	100
Printing stops if		no final cutter position, paper jam, cover open, limit of collecting
Limit of collecting	mm max.	100

\* 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

5.6



### 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		<b>all SQUIX units</b>
Scan distance	mm	45 - 150
Scan angle	°	-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](http://www.cab.de/en/cc200) for more information.

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

6.1



**RG guide plates** enable labels be rewound internally on peel-off units. A guide plate therefore replaces the peel-off plate.

Guide plate		RG200	RG400	
	Operated with	<b>SQUIX 2 P</b>	<b>SQUIX 4.3 P</b>	<b>SQUIX 4.3 MP</b>
	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	

6.2



**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 rewriter		ER1/210	ER2/210	ER3/210
Operated with		<b>SQUIX 4.3, SQUIX 4</b> <b>SQUIX 4.3 M, SQUIX 4 M</b>	<b>SQUIX 6.3</b>	<b>SQUIX 8.3</b>
Material width	mm max.	120	180	235
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		

6.3



**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 rewriter		ER4/300	ER6/300
Operated with		<b>SQUIX 4.3, SQUIX 4</b> <b>SQUIX 4.3 M, SQUIX 4 M</b>	<b>SQUIX 6.3</b>
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 use 76 if a cardboard core is in use with an adapter	
Winding		outside or inside	
	<b>Adapter kit</b>	<input type="checkbox"/>	<input type="checkbox"/>

6.4



**External EU unwinders**

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

External unwinder		EU4/300		EU6/300
Operated with		<b>SQUIX 4.3</b> <b>SQUIX 4</b>	<b>SQUIX 4.3 M</b> <b>SQUIX 4 M</b> <b>SQUIX 4.3 MT</b> <b>SQUIX 4 MT</b>	<b>SQUIX 6.3</b>
Material width	mm max.	120	114	180
Roll diameter	mm max.	300		
Core diameter	mm	38.1		
	mm if an adapter is in use	76		
Winding		outside or inside		
	<b>Adapter kit</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 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
Operated with			<b>SQUIX 4.3 MP, SQUIX 4 MP</b>
Tube	Diameter	mm	10 - 22
	Length, closure cap included	mm	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
Controls			applicator pivoted, tube missing, incorrect tube diameter



For more information  
on AXON 2 see  
[www.cab.de/en/axon2](http://www.cab.de/en/axon2)



For more information  
on AXON 1 see  
[www.cab.de/en/axon1](http://www.cab.de/en/axon1)

## Cable labeling



### WICON wrap-around applicator

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

Transparent laminate covers data blocks and protects them persistently from dust and wear.

Items are inserted in horizontal orientation and centered by panels. 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 via a data interface or an I/O interface. A label is printed and then picked up by the applicator. The diameter of an item is identified on the wrapper head. The size of a label determines how many times it will be wrapped around the item.

Wrap-around applicator			WICON
Operated with			<b>SQUIX 4.3 MP, SQUIX 4 MP</b>
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 stop	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
Applicator	Cycle time printing and applying or applying and printing	s	1.8 - 6
	Number of wrap-arounds		2 - 10
	Speed of wrapping	u/sec	3.0
	Initial roll-on to speed of wrapping	%	10 to 100
	Wrapper position	mm	-2



See for more information on WICON  
and labels.  
[www.cab.de/en/wicon](http://www.cab.de/en/wicon)

# 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.

- 1 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.
- 4 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.
- 5 A wide range of sizes**  
Labels 25 mm to 176 mm wide and 25 mm to 200 mm high can be applied.
- 6 Supporting air**  
It enables labels be blown onto a pad.
- 7 Pad**  
Labels are transferred to a pad and held there by vacuum. A stroke cylinder moves the pad with the labels to an item.

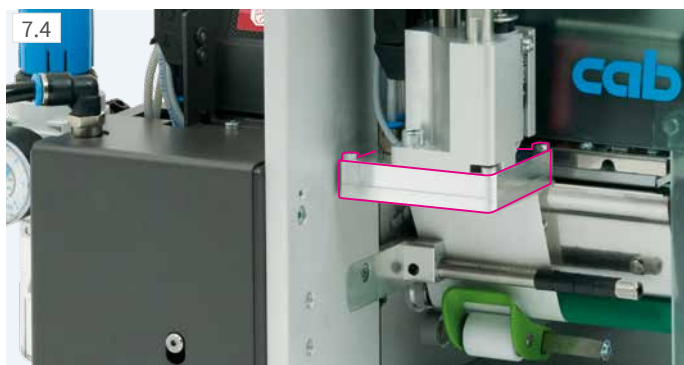
## Pre-dispense

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 SQUIX 4.3 M, SQUIX 4 M, SQUIX 6.3			
Cylinder stroke	mm	220	300	400
Weight	packaging excluded kg	4.5	5	5
Consumption of power	W max.	15		
Stroke of a pad	mm	64	144	244
as calculated below a unit				
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

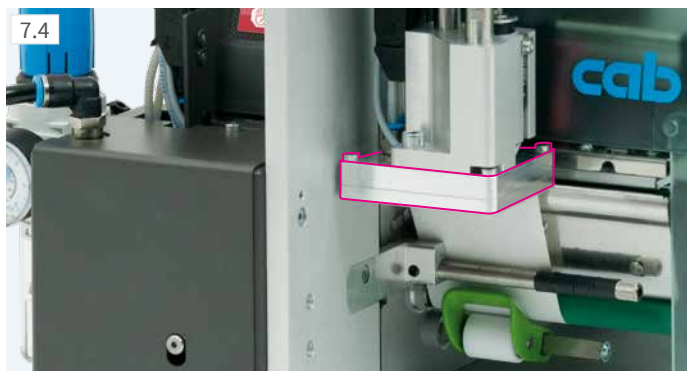


## Universal pads

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

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

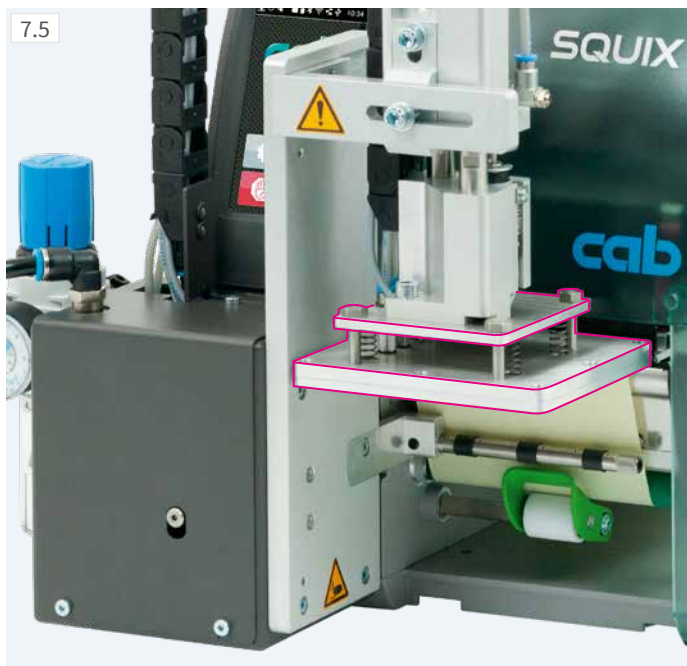
# S1000 applicator accessories



### Tamp-on pads

They are manufactured according to the size of a label.

Tamp-on pad	A1021			
		SQUIX 2	SQUIX 4.3 SQUIX 4	SQUIX 6.3
Operated with				
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

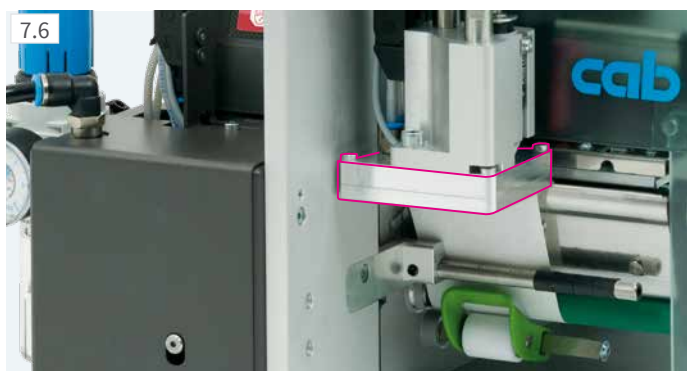
Pitch of spring enables labels be applied even to inclined surfaces. Drilled intake holes arranged in a grid are covered by foil. Piercing according to the size of a label

Universal pad	A1321		
	SQUIX 4.3, 4	SQUIX 4.3, 4	
Operated with			
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.

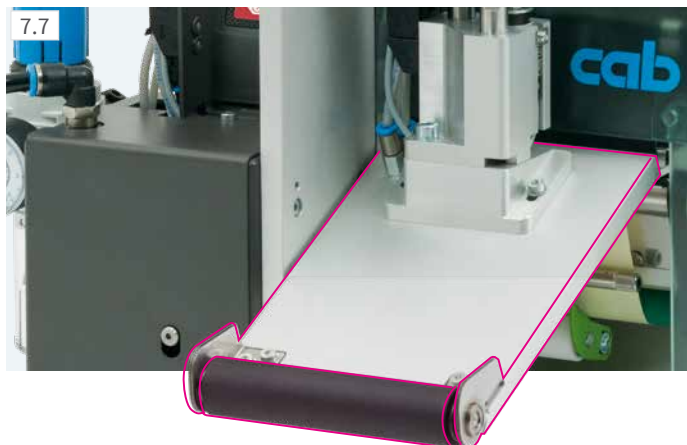
Tamp pad	A1321		
	SQUIX 4.3, 4	SQUIX 6.3	
Operated with			
Label width	mm	25 - 116	50 - 176
Label height	mm	25 - 200	
Surface of an item		flat	
Height of an item		flexible	
State of an item at the moment a label is applied		at rest	



### Blow-on pads

They suit for items sensitive to pressure. The pad locates approx. 10 mm ahead of an item.

Blow-on pad	A2021		
	SQUIX 2	SQUIX 4.3, 4	SQUIX 6.3
Operated with			
Label width	mm	25 - 63	25 - 116
Label height	mm	25 - 100	
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	



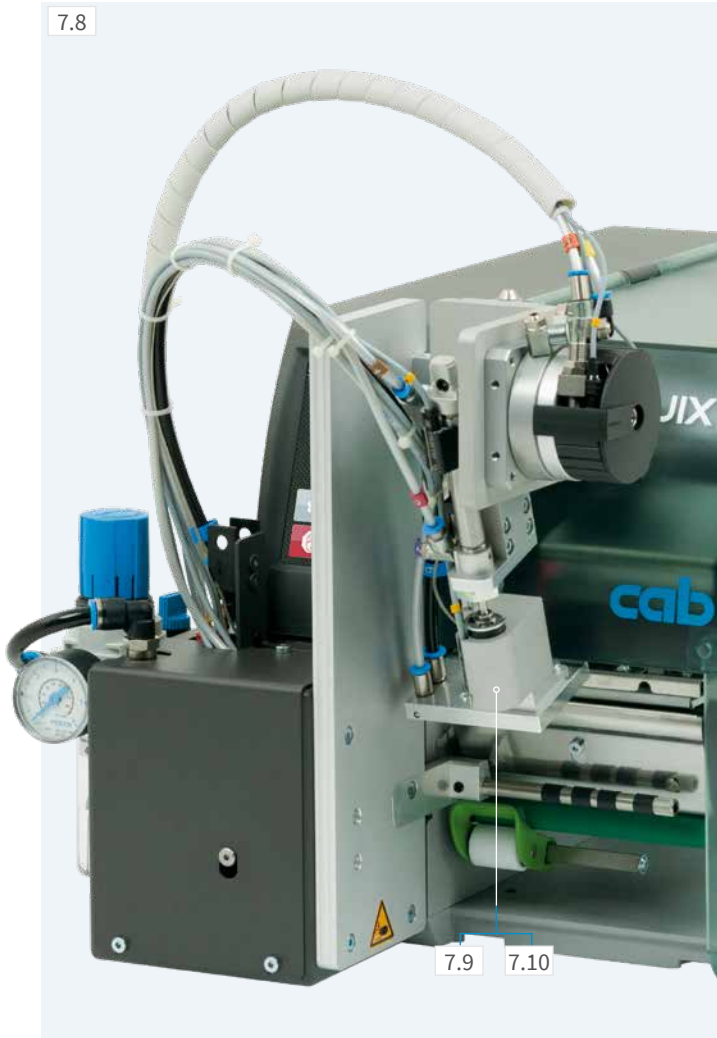
### Roll-on pads

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		
	SQUIX 4.3, 4	SQUIX 6.3	
Operated with			
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

7.8



## 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	S3200
Operated with	<b>SQUIX 2, SQUIX 4.3, SQUIX 4, SQUIX 4.3 M, SQUIX 4 M</b>
Rotary cylinder	45° - 95°
Stroke cylinder	30
Depth F of a pad immersing	5
Weight packaging excluded kg	4.5
Consumption of power W max.	15
Compressed air bar	4.5
Performance labels/min approx. <sup>1)</sup>	20

<sup>1)</sup> 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	<b>SQUIX 2</b>	<b>SQUIX 4.3, 4</b>
Label width mm	4 - 63	10 - 116
Label height mm	6 - 80	
Surface of an item	flat	
State of an item at the moment a label is applied	at rest	
Blow-on pad	A3200-2100	
Operated with	<b>SQUIX 2</b>	<b>SQUIX 4.3, 4</b>
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

7.11



## S5104, S5104 M, S5106 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	<b>SQUIX 4.3</b> <b>SQUIX 4</b>	<b>SQUIX 4.3 M</b> <b>SQUIX 4 M</b>	<b>SQUIX 6.3</b>
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	336 - 518		
Surface of an item	flat		
Height of an item	fixed		
State of an item at the moment a label is applied	in motion (speed adapted to printing)		
Weight packaging excluded kg	2.5	2.5	3.5
Consumption of power W max.	not specified		
Performance labels/min approx. <sup>1)</sup>	60		

<sup>1)</sup> 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	<b>SQUIX 2</b>	<b>SQUIX 4.3, SQUIX 4</b>
Label width mm	25 - 63	25 - 116
Label height mm	25 - 140	
Diameter of an item mm	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.

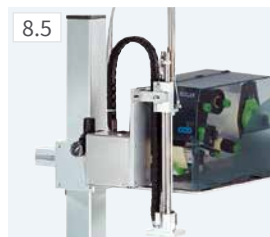
- 1 **Assembly plate**  
to assemble a label printer system
- 2 **Profile, aluminum square**  
40 mm, 80 mm, 120 mm  
Further lengths may be provided upon request.
- 3 **Base plate**  
to assemble a jig for retaining an item  
Standard size 500 mm x 255 mm



## 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	mm	1600
Height to apply a label mm max.	mm max.	1400
Offset to the centre of a label mm	mm	230 - 500
Carriage W x H x D mm	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

9.1



## 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

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

9.2



## 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

9.3



## 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

9.4



## 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](mailto: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 5977031	SQUIX 2/300 label printer SQUIX 2/600 label printer
1.2	 5977032 5977033	SQUIX 2/300P label printer SQUIX 2/600P label printer
1.3	 5977014 5977015 5977001 5977002 xxxxxxx.648 xxxxxxx.649	SQUIX 4.3/200 label printer SQUIX 4.3/300 label printer SQUIX 4/300 label printer SQUIX 4/600 label printer incl. CSQ401 cutter incl. CSQ402 cutter
1.4	 5977016 5977017 5977004 5977005	SQUIX 4.3/200P label printer SQUIX 4.3/300P label printer SQUIX 4/300P label printer SQUIX 4/600P label printer
1.5	 5977034 5977035	SQUIX 6.3/200 label printer SQUIX 6.3/300 label printer
1.6	 5977036 5977037	SQUIX 6.3/200P label printer SQUIX 6.3/300P label printer
1.7	 5977067	SQUIX 8.3/300 label printer
1.8	 5977068	SQUIX 8.3/300P label printer
Pos.	Item no.	Materials in centered position
1.11	 5977018 5977019 5977010 5977011 xxxxxxx.648 xxxxxxx.649 xxxxxxx.659	SQUIX 4.3/200M label printer SQUIX 4.3/300M label printer SQUIX 4/300M label printer SQUIX 4/600M label printer incl. CSQ401 cutter incl. CSQ402 cutter incl. PSQ403 perforation cutter
1.12	 5977022 5977023 5977007 5977008	SQUIX 4.3/200MP label printer SQUIX 4.3/300MP label printer SQUIX 4/300MP label printer SQUIX 4/600MP label printer
Pos.	Item no.	UHF RFID module provided
1.13	 xxxxxxx.406 xxxxxxx.407 xxxxxxx.408 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 5977012 5977025	SQUIX 4.3/300MT label printer SQUIX 4/300MT label printer SQUIX 4/600MT label printer

Pos.	Item no.	Options provided
1.15	 xxxxxxx.124 xxxxxxx.124 xxxxxxx.124	ESD surface Label printer SQUIX 2/xxx-ESD Label printer SQUIX 4/xxx-ESD Label printer SQUIX 6/xxx-ESD
1.16	 xxxxxxx.122 xxxxxxx.122	Food applications Label printer SQUIX 4/xxx-FOOD Label printer SQUIX 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	
<a href="https://setup.cab.de/en">https://setup.cab.de/en</a>	Instructions in 30 languages Configuration manuals DE / EN / FR Service manuals DE / EN Spare parts lists DE / EN Programming manual EN Windows printer drivers for Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 Certification WHQL in preparation 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

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

# Delivery program

## Accessories

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

Pos.	Item no.	Switches
3.4	 <b>5955710</b>	TR2 hand switch
3.5	 <b>5955711</b>	Foot switch
Pos.	Item no.	Connecting cable
4.1	 <b>5550818</b>	RS232-C cable 9/9 pins, 3 m
Pos.	Item no.	Cutting, perforating
5.1	 <b>5984550</b>	CSQ 401 cutter incl. a tray
	 <b>5984565</b>	CSQ 402 cutter incl. a tray
5.2	 <b>5984130</b>	PSQ 403 perforation cutter
5.3	 <b>5979032</b>	CU200 cutter
	 <b>5978900</b>	CU400 cutter incl. a tray
	 <b>5979033</b>	CU600 cutter
	 <b>5984100</b>	CU800 cutter
5.4	 <b>5978901</b>	PCU400/2,5 perforation cutter
	 <b>5978920</b>	PCU400/10 perforation cutter
Pos.	Item no.	Stacking, verifying
5.5	 <b>5978902</b>	ST400 M stacker providing a cutter and a base frame
	 <b>xxxxxxx</b>	Support table, label W x H
5.6	 <b>5977840</b>	CC200-SQ scanner
Pos.	Item no.	Rewinding, unwinding
6.1	 <b>5979031</b>	RG200 guide plate
	 <b>5978903</b>	RG400 guide plate
6.2	 <b>5948102.597</b>	External ER1/210 rewinder
	 <b>5943251.597</b>	External ER2/210 rewinder
	 <b>5945802.597</b>	External ER3/210 rewinder
6.3	 <b>5946090</b>	External ER4/300 rewinder
	 <b>5946420</b>	External ER6/300 rewinder
6.4	 <b>5946091</b>	External EU4/300 unwinder
	 <b>5946421</b>	External EU6/300 unwinder
6.5	 <b>5978943</b>	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	<b>5987150.xxx</b>	AXON 2 tube applicator providing a type 56.1 peel-off plate (Ø 14 mm), a TRV 14 transport roller, a tray
7.2	<b>5988000</b>	WICON wrap-around applicator Included in the accessory pack are - DR4-M30, DR4-M60 print rollers - WICON peel-off plate
7.3	<b>5976086</b> <b>5976087</b> <b>5976088</b>	S1000-220 applicator S1000-300 applicator S1000-400 applicator
7.4	<b>5949072</b>	Universal A1021 pad max. 70 mm x 60 mm
	<b>5949075</b>	Universal A1021 pad max. 90 mm x 90 mm
	<b>xxxxxxx</b>	A1021 tamp-on pad according to label W x H
7.5	<b>5949076</b>	Universal A1321 pad max. 116 mm x 102 mm
	<b>5949077</b>	Universal A1321 pad max. 116 mm x 152 mm
	<b>xxxxxxx</b>	A1321 tamp-on pad according to label W x H
7.6	<b>xxxxxxx</b>	A2021 blow-on pad according to label W x H
7.7	<b>xxxxxxx</b>	A1411 roll-on pad according to label W x H
7.8	<b>5976085</b>	S3200 applicator
7.9	<b>xxxxxxx</b>	A3200-1100 tamp-on pad according to label W x H
7.10	<b>xxxxxxx</b>	A3200-2100 blow-on pad according to label W x H
7.11	<b>5976083</b> <b>5976083.242</b> <b>5987120</b> <b>5979035</b> <b>5979035.242</b>	S5104 demand module incl. label sensor S5104 demand module, no label sensor S5104 M demand module S5106 demand module incl. label sensor S5106 demand module, no label sensor
7.12	<b>5976084</b> <b>5979089</b> <b>5550999</b> <b>8930933.001</b>	All-around labeler Mount Cable for plugging a SQUIX printer Foot switch

x - part no. specific to order

## Assembly assistants

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

## Special covers

Pos.	Item no.	Designation
9.1	<b>5977771.001</b> <b>5977763.001</b> <b>5977772.001</b>	Hinged cover SQUIX 2-ESD Hinged cover SQUIX 4-ESD Hinged cover SQUIX 6-ESD
9.2	<b>5977764.001</b> <b>5977774.001</b>	Hinged cover SQUIX 4-FOOD Hinged cover SQUIX 6-FOOD

## Protective chassis

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

## Label software

Pos.	Item no.	Designation	
11.7	Bundle	cclabel S3 Lite (download on cab.de/en)	
	<b>5588001</b> <b>5588100</b> <b>5588101</b> <b>5588150</b> <b>5588151</b> <b>5588152</b>	cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS cablabel S3 Pro 1 additional licence cablabel S3 Pro 4 additional licences cablabel S3 Pro 9 additional licences	
	<b>5588002</b> <b>5588105</b> <b>5588106</b> <b>5588155</b> <b>5588156</b> <b>5588157</b>	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	
	in preparation	cablabel S3 Print Server	
	11.10	<b>9009950</b>	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 Q 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  
**IXOR**



Marking lasers  
**XENO 4**



Laser marking systems



Germany  
**cab Produkttechnik GmbH & Co KG**  
Karlsruhe  
Phone +49 721 6626 0  
[www.cab.de](http://www.cab.de)

France  
**cab Technologies S.à.r.l.**  
Niedermodern  
Phone +33 388 722501  
[www.cab.de/fr](http://www.cab.de/fr)

USA  
**cab Technology, Inc.**  
Chelmsford, MA  
Phone +1 978 250 8321  
[www.cab.de/us](http://www.cab.de/us)

Mexico  
**cab Technology, Inc.**  
Juárez  
Phone +52 656 682 4301  
[www.cab.de/es](http://www.cab.de/es)

Taiwan  
**cab Technology Co., Ltd.**  
Taipei  
Phone +886 (02) 8227 3966  
[www.cab.de/tw](http://www.cab.de/tw)

China  
**cab (Shanghai) Trading Co., Ltd.**  
Shanghai  
Phone +86 (021) 6236 3161  
[www.cab.de/cn](http://www.cab.de/cn)

Singapore  
**cab Singapore Pte. Ltd.**  
Singapore  
Phone +65 6931 9099  
[www.cab.de/en](http://www.cab.de/en)

South Africa  
**cab Technology (Pty) Ltd.**  
Randburg  
Phone +27 11 886 3580  
[www.cab.de/za](http://www.cab.de/za)

**cab // 820** distribution and service partners in more than **80** countries

