Status: 07/2026

Label printers

SQUIX
LINERLESS

SQUIX linerless label printers

1.9, 1.10

SQUIX 4.3 L

SQUIX 6.3 L

60 percent more labels per roll

compared to self-adhesive labels providing a liner

No disposal of liner materials

Variable label sizes by programmable material-saving function

Labels are automatically cut following the final print line and an offset.

Entirely compatible with standard SQUIX label printers in terms of functionality and dimensions

Basic devices and peel-off devices can both be retrofit linerless material processing.

Label printers		SQUIX 4.3 L		SQUIX 6.3 L	
Print resolution	dpi	203	300	203	300
Print speed	mm/s max.	250	250	250	250
Print width	mm max.	104	108.4	168	162.6

1 Hinged cover
Material stock can be checked and entire print processes be followed through a large panoramic window.

2 Print head pressing system
Direct thermal printing requires less printhead pressure, resulting in a longer life cycle of the latter.

3 Prind head 4.3 / 6.3
Durable and suited best for linerless printing

4 Rugged metal chassis
It is the base for component assembly. Made of cast aluminum

5 DRL print roller
Specifically designed for linerless materials

6 Cutter
Printed labels are separated even to different heights.

Material sensor
It detects a material and whether it is running out on the printer.

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

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

SQUIX 4.3 L label printer

Cutter

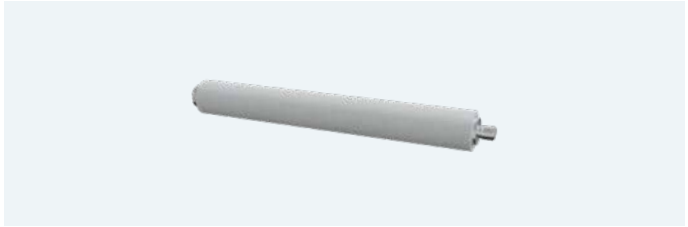
It is included upon delivery. An additional demand sensor monitors the removal of cut labels.

Hardened and titanium-coated blades ensure a long service life. Their surfaces resist to adhesive.

Print head

They have been designed for harsh environments and direct thermal print method. Print resolutions are 203 dpi and 300 dpi.

Major data such as operational performance, maximum operation temperature and heating are kept in the memory. The data can be read at the premise.



Linerless print rollers

DRL4 / DRL6 for continuous linerless materials, anti-stick-coating

Interfaces

1. Port for plugging a **SD memory card**
2. **2 USB hosts** for plugging a service key, an USB stick, a keyboard, a barcode scanner, an USB WLAN stick, an external operation 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**

   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	Unit ready
Print first label	Print data available
Reprint	
Delete print job	Paper feed ON
Label removed	Label in pickup position
Stop printing	Collective error
Pause	
Reset	

Operation panel

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

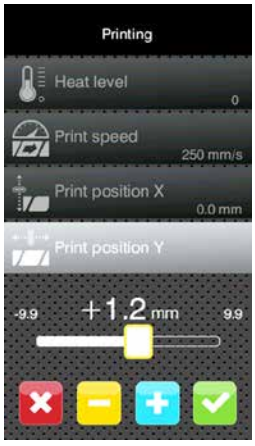
1. **LED:** Power ON
2. **Status bar:** receive data, record data stream, SD memory card / USB stick plugged, WLAN, Ethernet, USB slave, time
3. **Printer status:** ready, pause, number of labels printed in a print job, label in pickup position, awaiting external start signal
4. **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
5. **Operation**

Cutter for separating a material

Jump to menu
Stop and delete all print jobs
Reprint
Label feed
Suspend and continue a print job

Setup

Print parameters



Print position Y

Print speed

Video tutorials

External operation panel

If the operation 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 connecting to 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

Accessories

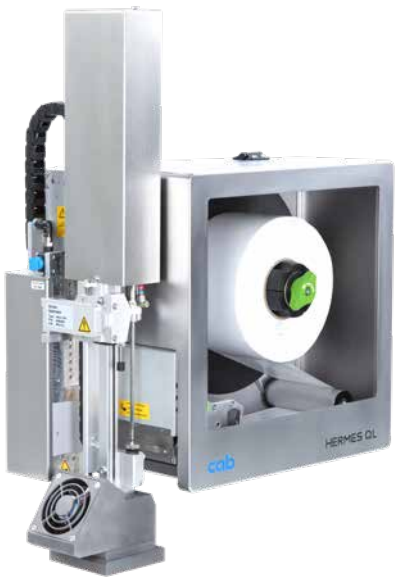
2.8		**External operation panel** If the operation panel of a printer cannot be accessed, an additional external one can be plugged. Same functionality as on a printer Landscape mode or portrait mode Operability as targeted, either on an external panel or on a printer
		USB 2.0 Hi-Speed device for connecting to a printer cab provides specified **USB cables** for power supply. Lengths are 1.8 m to 16 m
2.13		**SD memory card**
2.14		**USB stick**
2.15		**USB WLAN stick** 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode
2.16		**USB WLAN stick with a rod antenna** for extended range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode

3.1		**Digital I/O interface** Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.
3.2		**I/O interface plug,** SUB-D, 25 pins All control signals connect to the I/O interface using clamping screws
3.3		**Label selection - I/O box** 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.
4.1		**Connecting RS232-C cable** 9/9 pins, 3 m

Retrofit kit for SQUIX standard printers

Both basic printers and peel-off printers can be retrofit for linerless materials.

A kit consists of
a cover plate above the transport assembly,
a guide plate next to the print roller,
a protective tube above the internal rewinder,
a cutter,
a linerless print roller.



HERMES QL Linerless/ InNoLiner print and apply systems

see www.cab.de/en/linerless

Technical data

■ standard ☐ option

Label printer		**Type**	**SQUIX Linerless 4.3** providing a CSQL cutter		**SQUIX Linerless 6.3** providing a CU600L cutter	
Print method			Direct thermal			
Print resolution		dpi	200	300	200	300
Print speed		mm/s max.	250	250	250	250
Print width		mm max.	104	108.4	168	162.6
Print length		mm max.	13,500	6,000	9,000	4,000
Initial print	Distance to locating edge	mm	2.8	1.2	0.5	3.2
Material						
Continuous linerless material wound onto a roll			Direct thermal paper			
Label	Width	mm	20 - 120		46 - 180	
	Height	mm at least	30			
	Thickness	µm max.	110			
Unwinder	Roll outside diameter	mm max.	205			
	Core diameter	mm	38.1 - 76			
	Winding		outside			
Printer dimensions, weight						
Width x Height x Depth		mm	252 x 288 x 460		312 x 288 x 460	
Weight		kg approx.	10		14	
Material detection						
Sensor			Material provided, material ending			
Electronics						
Processor, 32 bit clock rate		MHz	800			
RAM		MB	256			
IFFS		MB	50			
Port for plugging a SD memory card (SDHC, SDXC)			■			
Battery for indicating time and date, real-time clock			■			
Data kept in memory (e.g. serial numbers) when power turns off			■			
Interfaces						
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			IPv4 / IPv6 static IP / DHCP · IEEE 802.1X			
2 USB hosts on the operation panel, 2 USB hosts on the back of a unit			Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external operation panel			
Digital I/O interface providing 10 inputs and 11 outputs			☐			
Operating data						
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, UKCA, FCC Class A, ICES-3, cULus, CB, CCC, CoC, BIS, BSMI, KC-Mark, Mexico Reg.			
Operation panel						
Color LCD touchscreen		Diagonal "	4.3			
	Resolution Width x Height px		272 x 480			

Scopes of delivery, design and technical specifications
correspond to the date of the printing. Subject to change.
The data provided in the catalog do not represent any warranty or guarantee.

■ standard ☐ option

Setup options		
	Print Label pickup Interfaces Errors	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter
Status bar		
	Receive data Record data stream SD memory card plugged USB stick plugged	WLAN Ethernet USB slave Time
Controls		
	Material provided, material ending Print head voltage Print head temperature Print head open No final cutter position Cover off cutter Label removed	
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 Print data recorded on memory card	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, links missing, etc.	
Fonts		
Integral For memory	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721, Bold
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 DEC MCS Western European Eastern European Chinese, simplified Chinese, traditional Thai	MacRoman KOI8-R Cyrillic Greek Latin Hebrew Arabian
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	

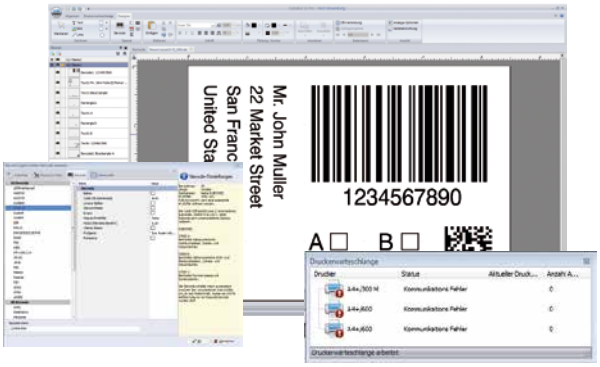
Codes		
1D barcodes, linear	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D codes, stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code rMQR code GS1 QR code GS1 DataMatrix GS1 Digital Link (QR and DataMatrix) PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, 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 depending on the type of code	
Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ ☐ ☐
Running also with	CODESOFT Loftware Spectrum NiceLabel BarTender	in preparation
Stand-alone operation		■
Windows printer drivers certified WHQL for	Windows 10 Windows 11 Server 2016 Server 2019 Server 2022 Server 2025	■
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

Printer control and administration

Label software

cablabel S3
It opens up the full potential of cab devices.
Modular design allows adaptation in steps to individual demands. See further information on 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 external memory media or a printer's internal IFFS memory. Variable data are sent via a keyboard, a barcode scanner, a weighing system or any other host to a printer, and / or recalled from a host using the Database Connector and printed.

Printer drivers

cab provides drivers to control a printer with software other than cablabel S3.
Free download on www.cab.de/en/support

Programming

JScript
cab has developed the embedded JScript programming language to control a printer.
Manual on www.cab.de/en/programming

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

Connecting to SAP®

Labels can be printed from SAP[1] on cab devices and systems. There are various methods:

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

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

Database

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] SAP and associated logos are trademarks or registered trademarks of SAP SE.
[2] SQUIX only

Network integration

Protocol / service	Feature / possibilities
RawIP	Direct print job submission via TCP (configurable port, 9100 default); easy integration with spoolers and host systems
LPD / LPR	Classic Unix / Windows print queue service for submitting and checking print job status
FTP / FTPS	Automatic print job transfer and execution, as well as access to memory (labels, images, fonts, firmware updates)
HTTP / HTTPS	Web-based configuration, status monitoring, firmware updates
WebDAV	Inclusion of central WebDAV server directories (containing stored print data) using the integral WebDAV client
SOAP web service	API for printer control and status queries via a standardized WSDL description
SNMP v2	Monitoring via standard printer MIB OIDs and traps for events (paper ending, error, maintenance)
SMTP	Emails as notification on events (errors, maintenance, status)
PJL	Printer Job Language: status and control commands within a print data stream
OPC-UA / OPC-UA DI	Industrial API for printer control and monitoring, device information companion specification included
SOTI Connect[2]	Cloud-based, thus centralized management of printer fleets
VPSX (LRS)	Integration with LRS VPSX output management for enterprise-wide print spooling
VNC	Remote access to a printer's operation panel for viewing and controlling per network
Avahi / mDNS / Zeroconf	Automatic service discovery (Bonjour-compatible) for driverless detection in a local network

Continuous linerless materials

RL540 linerless

Packaging of all kinds in industry and logistics;
2 mm adhesive-free area along margins

P98 linerless

Packaging of all kinds in industry and logistics;
full-area adhesive

All materials are free from bisphenols
and suit for use in food business.

Material	RL540 linerless	P98 linerless
Type	Direct thermal paper, white	Direct thermal paper, white
Thickness	approx. 94 µm	approx. 94 µm
Adhesive	self-adhesive acrylic	self-adhesive acrylic
Food recommendation	not specified	BfR XIV or FDA 21 CFR 175.105
Application temperature	from 5°C	from 5°C
Service temperature	–10°C - 100°C	–20°C - 80°C
Shelf life - Temperature - humidity, not condensing	12 months 23°C ± 5°C 50 % ± 10 %	24 months 20°C ± 5°C 45 % ± 5 %
Application	indoor	indoor
Print speed mm/s max.	200	250
Material length m	280	300
Roll diameter mm	205	205
Core diameter mm	76	76
Winding	outside	outside

Designation	Item no.	Material		Minimum order per roll	PU1	PU2	PU3*
		Width mm	Length m		Rolls / cardboard	Rolls / pallet	Rolls / container
RL540 continuous linerless material / 58 mm x 280 m	**5780200**	58	280	12	6	294	-
RL540 continuous linerless material / 80 mm x 280 m	**5780201**	80	280	8	4	196	-
RL540 continuous linerless material / 105 mm x 280 m	**5780202**	105	280	8	4	144	-
RL540 continuous linerless material / 148 mm x 280 m	**5780203**	148	280	8	4	112	-
P98 continuous linerless material / 60 mm x 300 m	**5780220**	60	300	8	4	120	192
P98 continuous linerless material / 80 mm x 300 m	**5780221**	80	300	8	4	120	180
P98 continuous linerless material / 100 mm x 300 m	**5780222**	100	300	8	4	96	120
P98 continuous linerless material / 148 mm x 300 m	**5780223**	148	300	8	4	80	90

Further widths upon request

PU1: rolls in cardboard boxes
PU2: rolls in cardboard boxes on pallets
PU3: rolls on containers (pallets, no cardboard)
***** item no. added by .130

Delivery program

Label printers

Pos.		Item no.	Designation
1.9		**5977080** **5977081**	SQUIX 4.3/200 L label printer SQUIX 4.3/300 L label printer
1.10		**5977082** **5977083**	SQUIX 6.3/200 L label printer SQUIX 6.3/300 L label printer

	Scope of delivery
	Label printer Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Service manuals DE / EN Continuous linerless material, 105 mm wide, 100 m long
	Provided 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 10 Server 2016 Windows 11 Server 2019 Server 2022 Server 2025 Apple Mac OS X printer drivers DE / EN / FR Linux printer drivers DE/EN/FR cablabel S3 Lite software cablabel S3 Viewer Database Connector

Accessories

Pos.		Item no.	Designation
2.8		**6010186**	External operation panel
		**5907718.001**	Connecting USB cable, 1.8 m
		5907730.001	Connecting USB cable, 3 m
		5907750.001	Connecting USB cable, 5 m
		5907760.001	Connecting USB cable, 11 m
		5907765.001	Connecting USB cable, 16 m
2.13		**5977370**	SD memory card
2.14		**5977730**	USB stick
2.15		**5978912.001**	USB WLAN stick 2.4 GHz 802.11b/g/n
2.16		**5977731**	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
Pos.		**Item no.**	**Interfaces**
3.1		**5977767**	Digital I/O interface
3.2		**5917651**	I/O interface plug SUB-D, 25 pins
3.3		**5948205**	Label selection - I/O box
Pos.		**Item no.**	**Connecting cable**
4.1		**5550818**	Connecting RS232-C cable 9/9 pins, 3 m

Wear parts

Pos.		Item no.	Designation
2.1		**5977382.001** **5977383.001**	Print head 4.3/200 Print head 4.3/300
		5977386.001 **5977387.001**	Print head 6.3/200 Print head 6.3/300
2.4		**6012025.001** **5987876.001**	DRL4 print roller DRL6 print roller
1.17		**5984573.001** **5978541.001**	CSQL cutter blade CSQL cutter bar
1.18		**5948329.001** **5948327.001**	CU600L circular blade CU600L linear blade

Retrofit kit for SQUIX standard printers

Pos.		Item no.	
1.19		**5987880**	Retrofit kit SQUIX 4L
		5987885	Retrofit kit SQUIX 6L

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

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

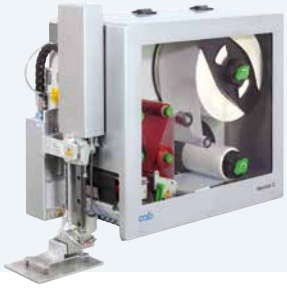
Label printers
SQUIX 8.3

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
IXOR

Marking lasers
XENO 4

Laser marking systems

See product information on **www.cab.de/en**

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