

Status: 05/2026



PX QS

**Print modules for
labeling head expansion**

Made in Germany

PX QS print modules

Perfect in function, highly reliable, convenient to operate and a minimum of downtimes when replacing materials.

PX QS print modules have been specifically designed for expanding labeling heads such as ROXI and IXOR.

Printed labels are led through a deflection roller to a loop.

An integral control system monitors a loop fill level regardless of a speed in which labels are dispensed. Loop lengths can be set according to a specific application.

- Minimum loop length

When printing with continuous speed, provided that a cycle for applying a label is longer than the printing. Little label waste at batch change-overs

- Maximum loop length

When items are labeled intermittently at frequent intervals. The filled buffer enables fast labeling. There are further possibilities of refilling the buffer between labeling cycles.

The control system continuously monitors the fill level and provides early notification if the loop buffer is full or empty. This ensures nondisruptive dispensing.

Labels can be printed in thermal transfer or direct thermal method.

The print head can be lifted during label feed.

Ribbon consumption is reduced in thermal transfer printing. In direct thermal printing, the print head benefits from an extended service life.

In addition, labels are prevented from compression between the sensor and the print head.



1.1

1.2

The universal ones

Print module		PX QS 4.3		PX QS 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

The wide ones

Print module		PX QS 6.3	
Print resolution	dpi	203	300
Print speed	mm/s max.	250	250
Print width	mm max.	168	162.6

Direction to which labels are provided

All print modules can be designed for providing labels either to the left or to the right. Print resolutions are 203 dpi, 300 dpi and 600 dpi.

PX QS "L"

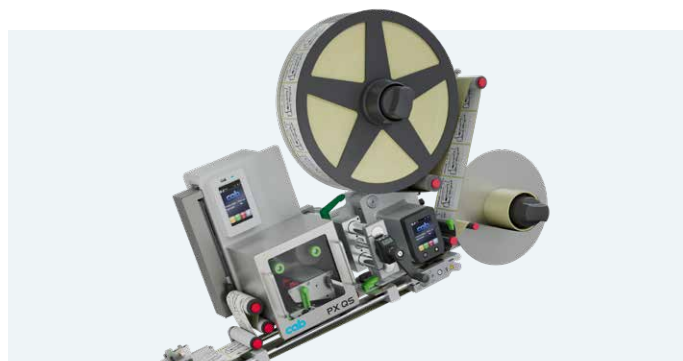


to the left

PX QS "R"



to the right



Labeling heads expanded by PX QS

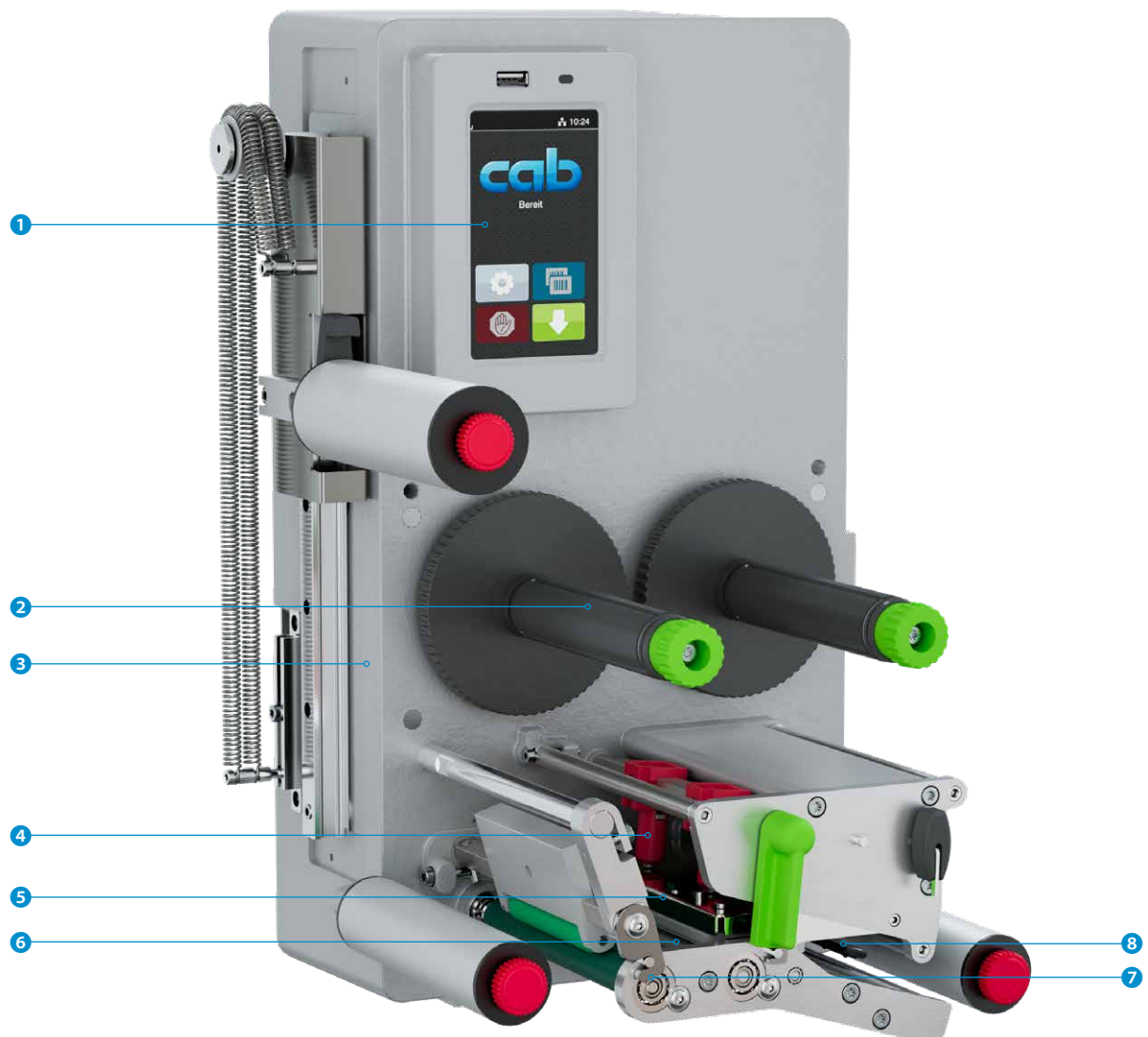
Suitable for ROXI, IXOR and IXOR+ labeling heads

Installation depth is 110 mm behind the locating edge of a material. Power supply and interfaces are located lateral on the printer chassis, as they are on ROXI and IXOR.

The print module is assembled on mounting rods, a carrier or a plate.

Labels without additional printing are fed directly to the dispensing tongue below the print module.

Details



1 Operation panel

Operating the device is intuitive and simple with the help of self-explanatory symbols to configure settings

2 Ribbon holder

Three-part tightening axles enable the ribbon to be replaced quickly and easily.

3 Rugged metal chassis

made of cast aluminum; basis to assemble all units

4 Plungers

One plunger is fixed on the inner side. A second one is moved that far to the label margin, until a good print image evokes.

5 Print head

All print heads are freely interchangeable at equal width.
Easy replacement

6 Print roller replacement

In cases of cleaning or replacement due to wear, both pressure and tension rollers are easy to remove and reinstall.

7 Simple replacement of materials

Label materials are inserted until lateral stop.
Print head and deflection roller locked by levers

8 Label sensor







A gap sensor or a reflective sensor position the imprint precisely on the label and detect the end of the material.
An external label sensor (e.g. CEON) can be installed when processing transparent labels.

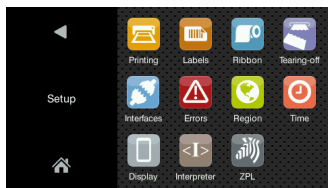
Operation panel

Operating the device is intuitive and simple with the help of self-explanatory symbols to configure settings

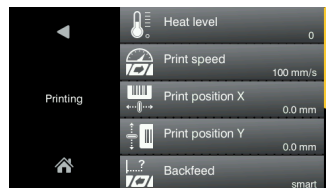
- 1 **LED signal:** Power ON
- 2 **Status bar:** data reception, record data stream, prior ribbon warning, SD memory card / USB stick plugged, WLAN, Ethernet, USB slave, time
- 3 **Printer status:** Ready, Pause, number of labels printed in a print job, label ready for removal, awaiting external start signal
- 4 **USB slot** to connect the Service Key or a memory stick, in order to transfer data to the IFFS memory

5 Operation

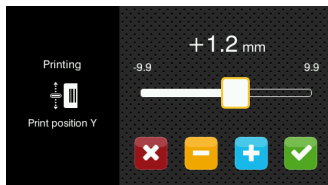
-  Print label
-  Jump to menu
-  Reprint last label
-  Interrupt and continue print job
-  Stop and delete all print jobs
-  Label feed



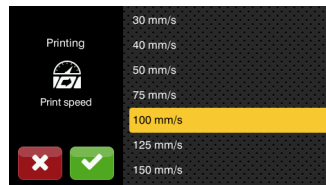
Setup options



Print parameters



Print position Y



Print speeds

Depending from the orientation of assembly, display is either in landscape or portrait mode.



Video tutorials

Print heads



All print heads are freely interchangeable at equal width. They are automatically detected and calibrated by the CPU. The print distance to the locating edge can be adjusted.

Major data such as running performance, maximum operating temperature and heat energy are directly stored in the print head. The data can be read at the plant.

Print heads for PX QS 4 module - 300, 600 dpi

providing sharp-edged print images
suitable for small fonts and graphics on typeplates
suitable for markings on materials with high energy needs

Print heads for PX QS 4.3 and PX QS 6.3 modules - 203, 300 dpi
durable; suitable for rough surroundings and direct thermal printing

Print rollers



Two types of material:

DR print rollers

Coating: synthetic rubber
They suit for highly accurate imprint and are provided as standard.

DRS print rollers

Coating: silicone
They have an extra long service life at a higher imprint tolerance.

Interfaces



1 Slot to connect a **SD memory card**

2 **2 USB hosts** to connect a Service Key, an USB stick, a keyboard, barcode scanner, an USB WLAN stick, external operation panel

3 **USB 2.0 Hi-speed device** to connect a PC

4 **Ethernet 10/100 Mbit/s**

5 **RS232C 1,200 to 230,400 baud/8 bit**

6 **I/O slot**

- Digital I/O interface 24 VDC
- Digital I/O interface 5 VDC
- 2 port Ethernet Switch 10/100 Mbit/s
- External label sensor

Options



DRS print roller

providing a silicone coating. Extra long service life, taken a higher print offset into account on a label



Digital I/O interface 24 VDC

25 pin SUB-D socket connector

compliant with IEC/EN 61131-2, type 1+3;

All inputs and outputs are galvanically isolated and protect from reverse polarity. In addition, outputs are short circuit protected.

PNP inputs

Start printing
Reprint
Delete print job
Label removed
Stop printing
Label feed
Pause
Reset

PNP, NPN outputs

Device ready
Print data available
Label ready for removal
Paper feed ON
Prior warning to a ribbon ending
End of ribbon and / or label web
Collective error
Printing started



Digital I/O interface 5 VDC

15 pin SUB-D socket connector

PNP inputs

Label feed
Reprint
Start printing
Pause
Delete print job

PNP, NPN outputs

Prior warning to a ribbon ending
End of ribbon error
End of label web error
Print data available
Printing finished
Printer error



2 port Ethernet Switch 10/100 Mbit/s

to connect a printer and labeler in a joint network. Signals are looped through.

Scope of delivery includes a **RJ45 Ethernet cable, 0.2 m**

M12 Ethernet cable, 4 pins, d-coded on RJ45, 0.5 m

IXOR+ to 2 port Ethernet Switch

RJ45 Ethernet cable, 0.5 m

ROXI to 2 port Ethernet Switch

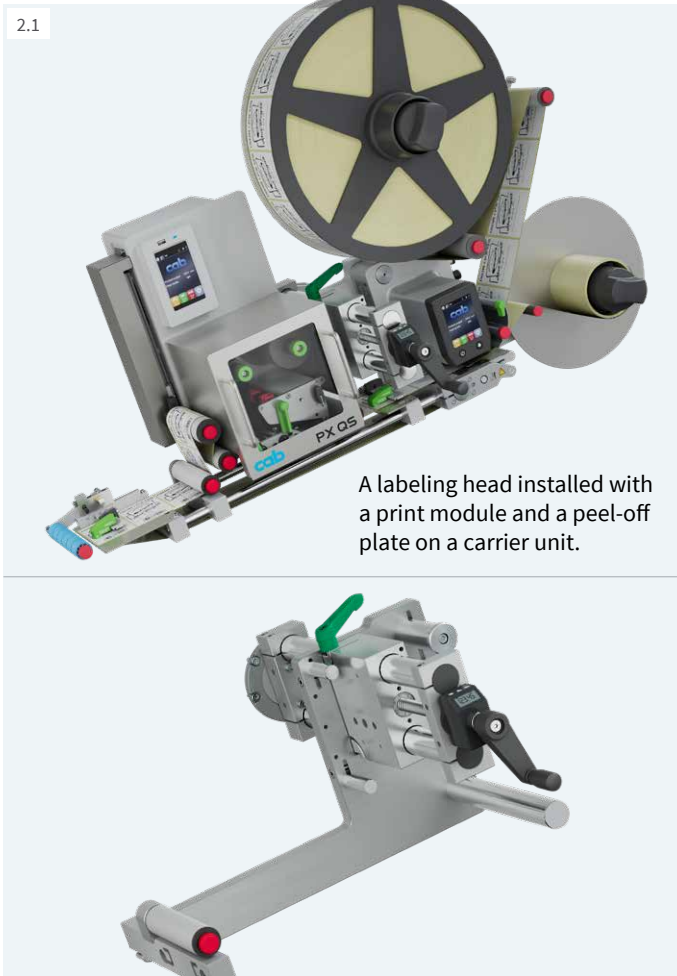


Interface for plugging an external label sensor

M12 plug, 5 pins, a-coded

Plug-compatible with CEON and other sensors based on PNP and 24 V

Accessories












A labeling head installed with a print module and a peel-off plate on a carrier unit.

Carrier units provided for PX QS print modules

- The print module is slid onto guides on the carrier unit and locked by screw.
- The labeling head is attached to a retainer.
- SST 400 or SST 600 column stands enable adjustment transverse the direction of transport.
- When processing slim labels, the print module can be shifted by 7 mm transverse the direction of transport to ensure the ribbon is running smoothly free of wrinkles. At this, the ribbon rests on both sides of the print roller. The material passage (i.e. material width) is reduced accordingly.
- The carrier's design allows labels been provided either to the left or right. Mounting rods are required 400 mm long.

Types	Material width mm max.
PX QS 120 L carrier unit	120
PX QS 180 L carrier unit	180
PX QS 120 R carrier unit	120
PX QS 180 R carrier unit	180

2.1		SD memory card
2.2		USB stick
2.3		USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot or infrastructure mode
2.4		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 or infrastructure mode
2.6		I/O interface plug SUB-D, 25 pins All control signals can be attached to the I/O interface using clamping screws.
2.7		I/O interface plug SUB-D, 15 pins Cable connection via clamping screws
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 or portrait mode Operability as desired on the external operation panel or on the printer Printer connectivity: USB 2.0 Hi-speed device 1 LED: Power ON 2 USB slot to connect the Service Key or a memory stick, in order to transfer data to the IFFS memory 3 Connecting USB cable for power supply cab provides specified cables. Lengths are 1.8 m to 16 m
2.9		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.
2.10		Connecting RS232 C cable 9/9 pins, 3 m

Technical data

● typical ■ standard □ option

Print module		Type	PX QS 4.3		PX QS 4		PX QS 6.3 (upon request)		
Print method	Thermal transfer		●	●	●	●	●	●	
	Direct thermal		●	●	-	-	●	●	
Print resolution	dpi		203	300	300	600	203	300	
Print speed	mm/s max.		300	300	300	150	250	250	
Print width	mm max.		104	108.4	105.7	105.7	168	162.6	
Direction to which labels are provided			L = to the left, R = to the right						
Print distance to locating edge	mm valid for L and R		3.2 / 2.6	1 / 0.4	2 / 2	2 / 2	1.2 / 1.2	3.9 / 3.9	
Materials									
Labels			paper, synthetics such as PET, PE, PP, PI, PVC, PU, acrylate, Tyvec						
Label ¹⁾	Width	mm	10 - 116		10 - 116		50 - 174		
	Height	mm	6 - 250		6 - 250		12 - 250		
	Thickness	mm max.	0.60		0.60		0.60		
Liner	Width	mm	16 - 120		16 - 120		50 - 178		
	Thickness	mm	0.03 - 0.16						
Ribbon ²⁾	Color layer		outside or inside						
	Roll diameter	mm max.	90						
	Core diameter	mm	25.4						
	Length	m max.	600						
	Width	mm	25 - 114		25 - 114		50 - 170		
Automatic saving			□		□		□		
Print module dimensions, weights									
Width x Height x Depth		mm	245 x 300 x 333				245 x 300 x 393		
Weight		kg	11.5				12		
Label sensors, position indicators									
Transmissive sensor	detecting		label margins, punch marks or print marks, materials ending						
Reflective sensor from below	detecting		print marks on non-translucent liner materials						
Sensor distance to locating edge	mm		4 - 60		4 - 60		4 - 60		
Material passage	mm		2						
Electronics									
32 bit processor	MHz		800						
RAM	MB		256						
IFFS memory	MB		50						
Slot to insert a memory card (SDHC, SDXC)			■						
Battery to display time and date; real time clock			■						
Data (e.g. serial numbering) preserved if power turns off			■						
Interfaces									
RS232C 1,200 to 230,400 baud / 8 bit			■						
USB 2.0 Hi-Speed to connect a PC			■						
Ethernet 10/100 Mbit/s IPv4 and IPv6			LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC						
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 24 VDC, 8 inputs / 9 outputs			□						
Digital I/O interface 5 VDC, 5 inputs / 6 outputs			□						
2 port Ethernet switch 10/100 Mbit/s			□						
Operating data									
Voltage			100-240 VAC, 50/60 Hz, PFC						
Power consumption			<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, RCM						

¹⁾ Limitations can occur when processing small labels, thin materials or materials using a strong adhesive. Critical applications need testing.

²⁾ A ribbon should be at least as wide as the liner material.

Technical data

■ standard □ option

Operation panel			
Color LCD touchscreen	Diagonal	"	4,3
		Resolution Width x Height px	480 x 272
Setup options			
Print Labels Ribbon Dispense Apply Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter		
Status bar			
Receive data Record data stream Ribbon warning SD memory card plugged USB stick plugged	WLAN Ethernet USB slave Time		
Controls			
Ribbon	Winding Prior warning Ending	Pinch roller (backfeed purpose) open	
Label	Ending		
Print head	Voltage Temperature open		
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 on memory card	Test grid Label profile List of events Monitor mode	
Status reports	- Printout of device settings, e.g. durations of printing and hours in operation - Device status request triggered by software command - Display of network errors, missing links, barcode errors, peripheral errors, etc.		
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 Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold	
For storing Zeichensätze	TrueType fonts Windows-1250 bis -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		
		Cyrillic Greek Latin Hebrew Arabian	

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

Fonts		
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 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 Loftware Spectrum NiceLabel BarTender	
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	■ ■

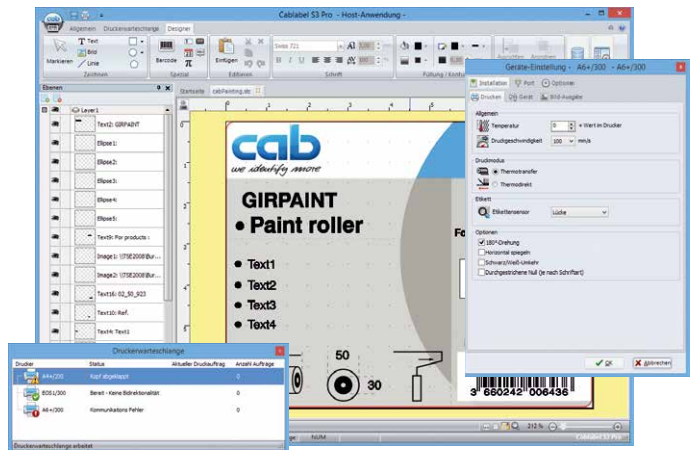
cablabel S3 software

Design, print, administrate

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



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



Stand-alone operation

This operating mode enables a printer select and print labels while not connected to a host system.

Labels can be designed using software such as cablabel S3 or a text editor on a PC. Label formats, texts, graphics and data of a database can be stored on a memory card, a USB stick or a printer's IFFS memory.

Only variable data are sent by a keyboard, a barcode scanner, a scale or any other host system to a printer, or be recalled by the Database Connector from a host and printed.



OPC UA

The latest cab printers are ready to interact with machines and components of different manufacturers in industrial plants.

An OPC UA server and a client are part of the firmware.

The server enables a printer be configured and controlled. Dynamic print data can be edited using a defined programming interface.

The integral client enables reading data fields from other machines ready for OPC UA, as well as transferring data to a label. No additional software is needed.



Printer control

Drivers



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



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



Programming



JScript

cab printers embed JScript language.

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



abc Basic Compiler

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

Connecting to SAP®

Labels can be printed from SAP¹⁾ on cab devices and systems. There are various methods:

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

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

¹⁾ SAP and associated logos are trademarks or registered trademarks of SAP SE.

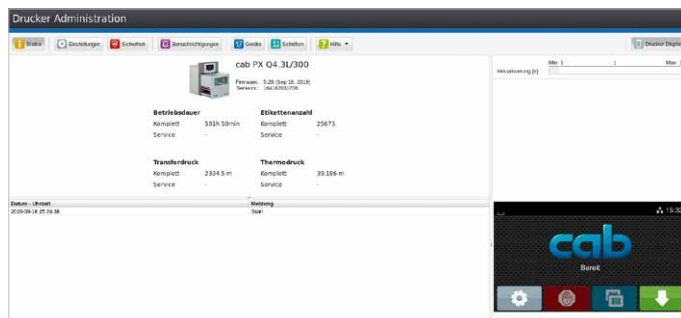
Printer administration



Configuration on the Intranet and Internet

Integral HTTP / FTP servers enable a printer be controlled or configured, firmware be updated and memory cards be administrated using standard applications such as a web browser or a FTP client.

Administrators and operators on behalf of SNMP / SMTP are notified of states, alerts and errors by email or SNMP datagrams. 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.






PX QS delivery program


If order implies options been assembled ex factory, item numbers of a print module and relevant options are added by .250. In cases of separate delivery, .001 is added.

Print modules L

Pos.	Item no.	Designation
1.1		6131050.xxx PX QS 4.3L/200 print module
		6131051.xxx PX QS 4.3L/300 print module
		6131052.xxx PX QS 4L/300 print module
		6131053.xxx PX QS 4L/600 print module
1.2		6131054.xxx PX QS 6.3L/200 print module
		6131055.xxx PX QS 6.3L/300 print module






Print modules R

Pos.	Item no.	Designation
1.1		6131060.xxx PX QS 4.3R/200 print module
		6131061.xxx PX QS 4.3R/300 print module
		6131062.xxx PX QS 4R/300 print module
		6131063.xxx PX QS 4R/600 print module
1.2		6131064.xxx PX QS 6.3R/200 print module
		6131065.xxx PX QS 6.3R/300 print module

	Scope of delivery
	PX QS print module Type E+F power cable, 1.8 m Knowledge Base
	Provided online
 https://setup.cab.de/en	Assembly instructions DE / EN / FR 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 and Viewer Database Connector (no activation)

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.

Options

Pos.	Item no.	Designation
3.2		5954985.xxx DRS4 print roller
	5954979.xxx DRS6 print roller	
3.3		5551447.xxx Digital I/O interface 24 VDC
3.4		5551453.xxx Digital I/O interface 5 VDC
3.5		6010520.xxx 2 port Ethernet switch 10/100 Mbit/s
3.6		5591816.xxx Interface for plugging an external label sensor






See current data also on the Internet:
www.cab.de/en/PXQS

PX QS delivery program


Accessories

Pos.		Item no.	Designation
2.1		6131332	PX QS 120 L carrier unit
		6131347	PX QS 180 L carrier unit
2.2		6131348	PX QS 120 R carrier unit
		6131349	PX QS 180 R carrier unit
2.2		5977370	SD memory card
2.3		5977730	USB stick
2.4		5978912	USB WLAN stick 2.4 GHz 802.11b/g/n
2.5		5977731	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.6		5917651	I/O interface plug SUB-D, 25 pins
2.7		5917652	I/O interface plug SUB-D, 15 pins
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
2.9		5907765.001	Connecting USB cable, 16 m
		5948205	Label selection - I/O box
2.10		5550818	Connecting RS232 C cable 9/9 pins, 3 m

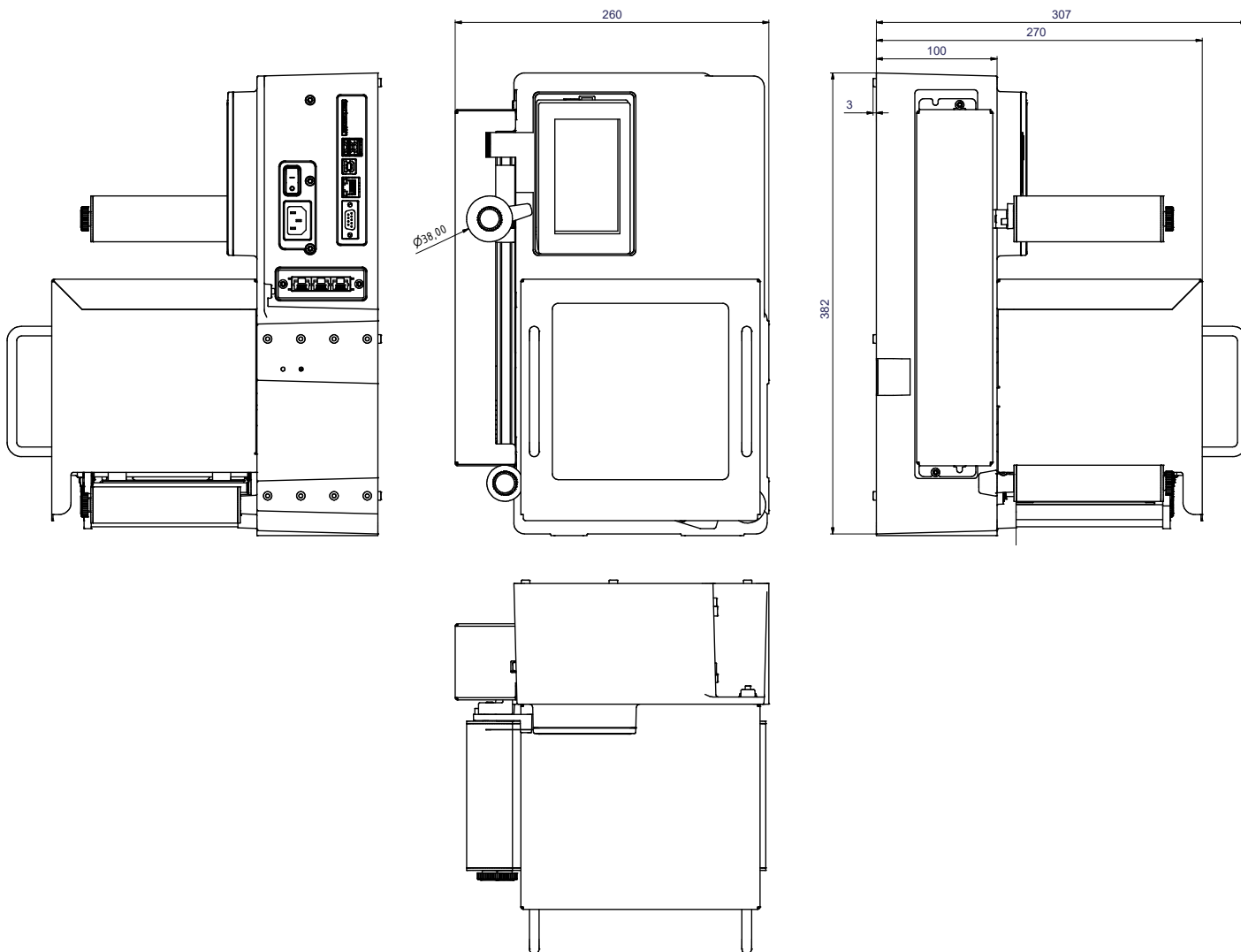
Wear parts

Pos.		Item no.	Designation	dpi
		5977382.001	Print head 4.3	200
		5977383.001	Print head 4.3	300
		5977444.001	Print head 4	300
		5987070.001	Print head 4	600
		5977386.001	Print head 6.3	200
		5977387.001	Print head 6.3	300
		5954180.001	DR4 print roller	
		5954245.001	DR6 print roller	

Label software

Pos.		Item no.	Designation
11.9			cablabel S3 Lite (download on cab.de/en)
		Bundle	
		5588001	cablabel S3 Pro, 1 WS
		5588100	cablabel S3 Pro, 5 WS
		5588101	cablabel S3 Pro, 10 WS
		5588150	cablabel S3 Pro, 1 add. licence
		5588151	cablabel S3 Pro, 4 add. licences
		5588152	cablabel S3 Pro, 9 add. licences
		5588002	cablabel S3 Print, 1 WS
		5588105	cablabel S3 Print, 5 WS
		5588106	cablabel S3 Print, 10 WS
		5588155	cablabel S3 Print, 1 add. licence
		5588156	cablabel S3 Print, 4 add. licences
5588157	cablabel S3 Print, 9 add. licences		
		inpreparation	cablabel S3 Print Server
11.10		9008486	Programming manual EN, printed copy

PX QS dimensions



Print module weight	PX QS 4.3	PX QS 4	PX QS 6.3
in kg	11.5	11.5	12

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



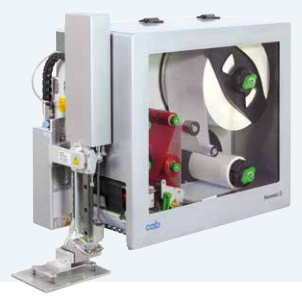
Label printers
XC Q two-colored



Print and apply systems
HERMES Q



Print and apply systems
Hermes C two-colored



Tube labeling systems
AXON 1



Print modules
PX QS



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

France
cab Technologies S.à.r.l.
Niedermodern
Phone +33 388 722501
www.cab.de/fr

USA
cab Technology, Inc.
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