Status: 03/2023





Label printers for printing with two colors



# XCQ label printers for printing with two colors



## Highlights

- **300 dpi,** printable as wide as 105.7 mm or 162.6 mm
- **Heating** can be assigned separately to each print head.
- If printing only with print head 2, print head 1 is lifted by menu control.
- Automated ribbon saving is provided on print head 1.
   The print head is lifted and the ribbon is stopped during material feed.
- Continuous print images when cutting at no backfeed
- Optimized printing, so that multiple print jobs can be printed seamless

- CSQ 402 cutters are provided for XC Q4 printers,
   CU600 cutters for XC Q6.3.
- **Find documentation** on the Internet. DVDs are no longer part of delivery.



# Types of printers



### XC Q4 providing a tear-off plate

All materials wound on a roll can be printed.

Label printer		XC Q4
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	105.7
Width of a material	mm max.	114



XC Q4 providing a CSQ 402 cutter
Paper labels and self-adhesive labels, cardboard and synthetic materials can be cut.

Label printer		XC Q4-C2
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	105.7
Width of a material	mm max.	114
Tray Material	s as wide as mm	100



### XC Q6.3 providing a tear-off plate

All materials wound on a roll can be printed.

Label printer		XC Q6.3
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	162.6
Width of a material	mm max.	180

# Technical data

Label printer			VC 04	VC 06 3
Label printer	alc		XC Q4	XC Q6.3
Guidance of materi Print method	dis	Thormal transfer	aligned t	to the left
		Thermal transfer	200	200
Print resolution dpi		300	300	
Print speed mm/s max.		150	150	
Print width mm max.		105.7	162.6	
Automated ribbon saving		•	•	
Material <sup>1)</sup>				
•	ynthetics PET, PE, PP, PI, PVC,	PU, acrylate, Tyvec		
Textile tape			<u> </u>	-
Finishing	Roll			<u>)</u>
	Roll diameter	mm max.		
	Core diameter	mm	·	6
	Winding			or inside
Label	Width	mm	20 - 116	46 - 176
	Height	mm at least	2	
	Thickness	mm max.		.1
Liner	Width	mm	24 - 120	50 - 180
	Thickness	mm max.		.1
Continuous	Width	mm	24 - 120	50 - 180
	Thickness	mm max.		.3
	Weight (cardboard)	g/m² max.		00
Ribbon <sup>2)</sup> Color side Roll diameter Core diameter Length			outside	or inside
		mm max.	8	0
		mm	25.4	
		m max.	4!	50
	Width	mm max.	114	170
Printer dimension	s, weights			
Width x Height x De	pth	mm	248 x 395 x 554	358 x 395 x 554
Weight		kg	22	24
Label sensors, pos	sition indicators			
Transmissive senso	or	detecting	print marks on tra	s, materials ending, nslucent materials
Reflective sensor	from below or top	detecting	print marks on non-t	rials ending, ranslucent materials
Sensor distance	to locating edge	mm		60
Material passage		mm max.		2
Interfaces				
RS232-C 1,200 to 2				
USB 2.0 Hi-Speed d	levice to plug a PC			
Ethernet 10/100 Mb	pit/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 c	ontrol panel	for plugging		
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 operation p	
USB host, 24 VDC, f	or peripheral plugging			
Digital I/O interface	e providing 8 inputs and 8 ou	tputs		
Operating data				
Voltage			100 - 240 VAC,	50/60 Hz, PFC
Consumption of power		<10 W in standby / 100 W in typical operation		
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				S-3, cULus, CB, CCC
	U	nder examination		BIS, BSMI, KC-Mark
Control panel			, ,	
Color LCD	Diagonal	II.	4.	.3

<sup>&</sup>lt;sup>1)</sup> Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels. <sup>2)</sup> A ribbon should be at least as wide as the liner material.

## Technical data

Setup options			
- stup optivils	Print	Region:	
		- Languag	10
	Labels Dilatara	- Languag	,e
		- Country	
		- Keyboar	
		- Time zoi	ne
	Interfaces	Time	
	Error	Display:	
		- Brightne	ess .
		- Power sa	aving mode
		- Orientat	
		Interprete	er
Status bar			
	Receive data		Bluetooth
	Record datastream		WLAN
	Warning to a ribbon 6	ending	Ethernet
	SD memory card plu		USB slave
	USB stick plugged	99ca	Time
Controls	oob otten pragged		
	Ribbon 1/2		Print head 1/2
	- Winding		- Voltage
	- Prior warning		- Temperature
	- End of ribbon		- open
		rial	
T	Running out of mater	ııaı	Peripheral error
Test routines			
System diagnostics	upon startup, detect		nt head included
Information display,		Test grid	
test printout,	Fonts list	Label pro	file
analysis	List of units	List of eve	ents
-	WLAN status	Monitor n	node
Status reports	- Printout of print du		
otatao.epo.to	- Status of a unit requ		
	- Display of errors rel		
	or peripheral device		
Faceta	or periprieral device	e, as well a	is tillssills
Fonts	=11.		
Integral		7 vector f	
			Iedium GB-Mono
	16 x 16 dots	CG Trium	rirate Condensed Bold
		Garuda	
	OCR-A	HanWang	HeiLight
		Monospa	
		Swiss 721	
		Swiss 721	
For storing	TrueType fonts		
Sets of characters	Windows-1250 to -1257		
	DOS 437, 737, 775, 85	0,852,85	7, 862, 864, 866, 869
	EBCDIC 500		
	ISO 8859-1 to -10 and	l -13 to -16	
	WinOEM 720		
	UTF-8		
	UTF-8 MacRoman		
	MacRoman		
	MacRoman DEC MCS		
	MacRoman		
	MacRoman DEC MCS KOI8-R		Cyrillic
	MacRoman DEC MCS KOI8-R Western European		Cyrillic Greek
	MacRoman DEC MCS KOI8-R Western European Eastern European		Greek
	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified		Greek Latin
	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional		Greek Latin Hebrew
	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai		Greek Latin
Bitmap	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai 1 mm to 3 mm wide a	and high	Greek Latin Hebrew
Bitmap	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10	ŭ	Greek Latin Hebrew
Bitmap	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai 1 mm to 3 mm wide a	ŭ	Greek Latin Hebrew
Bitmap  Vector / TrueType	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10	entations	Greek Latin Hebrew Arabian
· 	MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai 1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie	entations	Greek Latin Hebrew Arabian
· 	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w	entations ide and hi	Greek Latin Hebrew Arabian
Vector / TrueType	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st	entations ide and hi ceps of 1°	Greek Latin Hebrew Arabian gh
· 	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom	entations ide and hi eps of 1°	Greek Latin Hebrew Arabian gh
Vector / TrueType Styles	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st bold, italic, underline - depending on the for	entations ide and hi eps of 1° ed, outline ont type	Greek Latin Hebrew Arabian gh
Vector / TrueType Styles Character spacing	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st bold, italic, underline	entations ide and hi eps of 1° ed, outline ont type	Greek Latin Hebrew Arabian gh
Vector / TrueType Styles Character spacing Graphics	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st bold, italic, underline depending on the fo	entations ide and hi eeps of 1° ed, outline ont type ospace	Greek Latin Hebrew Arabian gh
Vector / TrueType Styles Character spacing	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st bold, italic, underline depending on the for proportional or mon	entations ide and hi eeps of 1° ed, outline ont type ospace	Greek Latin Hebrew Arabian gh
Vector / TrueType Styles Character spacing Graphics	MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese, simplified Chinese, traditional Thai  1 mm to 3 mm wide a Zoom factors 2 to 10 0°, 90°, 180°, 270° orie 0.9 mm to 128 mm w Continuous zoom 360° orientation in st bold, italic, underline depending on the fo	entations ide and hi teps of 1° ed, outline ont type ospace gles, circle	Greek Latin Hebrew Arabian  gh e, inverse es, ellipses

		■ standard	☐ option
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, Ident and rou of Deutsche F Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	ting code
2D code, 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, 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		
Software	and start/stop coding depe	inds on the typ	c or couc.
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		
Running also with	CODESOFT NiceLabel BarTender		
Stand-alone operation			
Windows printer drivers for	Windows 11 S	erver 2016 erver 2019 erver 2022 aration	-
Apple printer drivers	7 1 1		
Linux printer drivers	CUPS 1.2 or any later release minimum driver version 1.46		
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

## 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.





# Accessories / optional equipment

2.1	SD memory card
2.2	USB stick
2.3	USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot mode 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 mode or infrastructure mode
2.5	USB Bluetooth adapter

2.7	<b>Digital I/O interface</b> Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed simultaneously.
2.8	I/O interface plug SUB-D, 25 pins, for connecting all control signals to the I/O interface





Paper, cardboard, textile and synthetic materials can be cut.

A CSQ can be pivoted to simplify material changeover. A tray allows collecting a maximum of 50 labels. Label heights can be adjusted.

A CU400 is still recommended with textile operations.



Cutter	CSQ 402	CU400	CU600
Operated with	XC Q4	XC Q4	XC Q6.3
Material: Passage width mm max.	120	120	180
Passage height mm max.	2.0	2.0	2.0
Weight (cardboard) gr/m² max.	300	300	300
Thickness mm max.	1.1	1.1	1.1
Cutting length mm at least	10	5	5
Tray Materials as wide as mm	100	100	-
Performance cuts/min at use of material 1 mm high, no backfeed	200	100	100
Controls	no final cutter position		
Controls	cutter cover removed	-	-



External ER4, ER6 rewinders, power supply built in Label webs may be wound outside or inside. They are wound consistently and tight by electronic control, with a pendulum arm.

<b>External rewinder</b>		ER4/300	ER6/300
Operated with		XC Q4	XC Q6.3
Width of a material	mm max.	120	180
Roll diameter	mm max.	30	00
Core diameter	mm		ore are in use rd core is in use
Winding		outside or inside	
Adapter kit			

### cablabel S3 software

#### Design, print, administrate

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







### Stand-alone operation

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



### Printer control

#### **Drivers**



cab provides 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 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**



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 on the Intranet und 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.

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

## Delivery program

#### **Label printers**

Pos.	Item no.	Designation
1.1	6011520	XC Q4 label printer
1.2	6011522	XC Q4-C2 label printer with a CSQ 402 cutter
1.3	6011525	XC Q6.3 label printer

xxxxxxx.250 options assembled

#### Wear parts

Pos.	Item no.	Designation
	5987089.001 5987097.001	Print head 4/300 X Print head 6.3/300 X
	5954180.001 5954245.001	DR4 print roller DR6 print roller

#### Scope of delivery

Label printer Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Instructions DE / EN

#### **Provided online**



https://setup.cab.de/en

Instructions
Configuration manuals DE / EN / FR
Service manuals DE / EN in preparation
Spare parts lists DE / EN
Programming manual EN
Windows printer drivers for
Windows 10 Server 2016

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

#### **Accessories**

Accessorial products are plugged or screwed to a printer by a customer.





See further accessories on www.cab.de/en/xcq-accessories

#### Optional equipment

Options are parts or units to perform special functions. They are assembled to a printer in addition to or instead of standards. If order implies options be assembled ex factory, corresponding item numbers are added by .250. Options delivered separately are added by .001.

#### Accessories / optional equipment

Pos.		Item no.	Designation
2.1		5977370	SD memory card
2.2		5977730	USB stick
2.3	<b>3</b>	5978912	USB WLAN stick 2.4 GHz 802.11b/g/n
2.4		5977731	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.5		5977732	USB Bluetooth adapter
5.1		5978900	CU400 cutter tray provided
		5979033	CU600 cutter
6.1	CA.	5946090 5946420	External ER4/300 rewinder External ER6/300 rewinder
6.2		6011796 6011797	XC Q4 adapter kit XC Q6.3 adapter kit
3.1		5984565.xxx	CSQ 402 cutter
2.7		5551447.xxx	Digital I/O interface
2.8		5917651.xxx	I/O interface plug SUB-D, 25 pins

xxx - .250 assembled to a printer .001 separate delivery resp. spare part

# Delivery program

#### Label software

Pos.		Item no.	Designation		
		Bundle	cablabel S3 Lite (download on cab.de/en)		
		5588001	cablabel S3 Pro 1 WS		
		5588100 5588101	cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS		
		5588150	cablabel S3 Pro 1 additional licence		
		5588151	cablabel S3 Pro 4 additional licences		
11.7		5588152	cablabel S3 Pro 9 additional licences		
		5588002	cablabel S3 Print 1 WS		
		5588105	cablabel S3 Print 5 WS		
		5588106 5588155	cablabel S3 Print 10 WS cablabel S3 Print 1 additional licence		
		5588156	cablabel S3 Print 4 additional licences		
		5588157	cablabel S3 Print 9 additional licences		
		in preparation	cablabel S3 Print Server		
11.10		9008486	Programming manual EN, printed copy		

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

### User languages

Language	Instruc-	Control	Windows	Service	cablabel				
	tions	panel	driver	manual	<b>S</b> 3				
European Union									
Bulgarian	0	Χ	Х		Χ				
Danish	0	Χ	Χ						
German	Χ	Χ	Χ	0	Χ				
Estonian	0	Χ	Χ						
Finnish	0	Χ	Χ						
French	Χ	Χ	Χ		Χ				
Greek	0	Χ	Χ						
English	Χ	Χ	Χ	0	Χ				
Italian	0	Χ	Χ		Χ				
Croatian	0	X	Χ		Χ				
Latvian	0	Χ	Χ						
Lithuanian	0	Χ	Χ						
Dutch	0	Χ	Χ						
Polish	0	Χ	Χ		Χ				
Portuguese	0	Х	Χ						
Romanian	0	Χ	Χ						
Swedish	0	Χ	Χ						
Slovak	0	Х	Χ						
Slowenian	0	Χ	Χ						
Spanish	0	Χ	Χ		Χ				
Czech	0	Χ	Χ		Χ				
Hungarian	0	Х	Χ						
Europe (Non	ı-EU)								
Macedonian	0	Χ	Χ						
Norwegian	0	Χ	Χ						
Russian	0	Χ	Χ		Χ				
Serbian	0	Χ	Χ						
Turkish	0	Χ	Χ						
Asia									
Chinese (simplified)	0	Х	Х		Х				
Chinese (traditional)	0	Х	Х		Х				
Japanese	0	0	Х						
Korean	0	0	X		X				
Thai	0	X	X		Λ				
Middle East									
Persian X									
Arabian		X							
Maniali		^							

O in preparation

# 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



Tube labeling systems AXON 1



Print modules PX Q



Labels and ribbons



Label software cablabel S3



Label dispensers HS, VS



Labeling heads





Laser marking systems



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