Status: 07/2023





Label printers for printing on both sides of a material



XDQ label printers for printing on both sides of a material



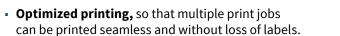
Highlights

2

- 300 dpi if printing as wide as 105.7 mm
 600 dpi if printing no more than 54.1 mm wide, using a DR4-M60 print roller
- Print heads designed for 300 dpi and such for 600 dpi are not interchangeable on the unit.
- Heating can be assigned separately to each print head.
- If printing only on the top of a material using print head 2, print head 1 is automatically lifted and the ribbon is stopped by an electromechanical brake.
- Guiding materials in centered position results in precise print images in particular with slim continuous materials are in use. The width of a material is set with the help of a spindle.
- Automated ribbon saving is provided on print head 1 when printing on the bottom of a material. The print head is lifted and the ribbon is stopped during material feed.
 - Textile tapes Cardboard labels Identification strips



Cable marking Shrink tubes continuous or ready for use



Continuous print images when cutting or perforating

CSQ cutters and PSQ perforation cutters

labels at no backfeed.

- A separator is part of the chassis. It separates continuous material reliably from a ribbon and improves the accuracy of feeding. Draw roller quality: Steel roller standard if printing on textile materials Print roller an option with shrink tubes
 - The pressure system can be pivoted if required.
- Find documentation on the Internet. DVDs are no longer part of delivery.

ER 65.007 ER 65.011 ER 65.010 ER 65.009 Labels Printing only on the top of a material using print head 2



Types of printers



XD Q providing a tear-off plate

All materials wound on a roll or a reel can be printed, so can fanfold ones.

Label printer		XD Q4/300	XD Q4.2/600
Print resolution	dpi	300	600
Print speed	mm/s max.	200	100
Print width	mm max.	105.7	54.1
Width of a material	mm max.	114	114

1.2



XD Q providing a CSQ 402 cutter

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

Label printer		XD Q4/300-C2	XD Q4.2/600-C2
Print resolution	dpi	300	600
Print speed	mm/s max.	200	100
Print width	mm max.	105.7	54.1
Width of a material	mm max.	114	114
Tray Materials as	wide as mm	100	100

1.3



XD Q providing a PSQ 403 perforation cutter

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

Label printer		XD Q4/300-P3	XD Q4.2/600-P3
Print resolution	dpi	300	600
Print speed	mm/s max.	200	100
Print width	mm max.	105.7	54.1
Width of a material	mm max.	114	114
Tray Materials as	wide as mm	100	100

Technical data

Label printer			XD Q4/300	XD Q4.2/600
Guidance of materi	als		centered	centered
Print method	Thermal transfer			
Print resolution		dpi	300	600
Print speed		mm/s max.	200	100
Print width		mm max.	105.7	54.1
Automated ribbon	saving			
Materials ¹⁾				
Paper, cardboard, sy	ynthetics PET, PE, PP, PI, PVC, P	U, acrylate, Tyvec		
Shrink tube	ready for use			
	continuous, pressed			
Textile tape				
Finishing	Roll, fanfold			
	Roll diameter	mm max.	30	00
	Core diameter	mm	38.1	- 76
	Winding		outside	or inside
Label	Width	mm	10 -	110
	Height	mm at least	2	0
	Thickness	mm max.	0	1
Liner	Width	mm	14 -	114
	Thickness	mm max.	0	.1
Continuous	Width	mm	4 -	114
	Thickness	mm max.	0.	.3
	Weight (cardboard)	g/m² max.	30	00
Shrink tube	Width ready	for use mm max.	1:	14
	continu	ous, pressed mm	4 -	85
	Thickness	mm max.	1	.1
Ribbon ²⁾	Color side		outside	or inside
	Roll diameter	mm max.	8	0
	Core diameter	mm	25	5.4
	Length	m max.	450	
	Width	mm max.	1:	14
Printer dimension	ıs, weight			
Width x Height x De	epth / Weight	mm/kg	248 x 395	x 594 / 21
Label sensors, pos	sition indicators			
Transmissive sense	or	detecting		nslucent materials
Reflective sensor	from below or top	detecting	· · · · · · · · · · · · · · · · · · ·	rials ending, ranslucent materials
Sensor distance	centre to locating edge	centered mm	0 -	55
Material passage		mm max.		2
Interfaces			1	
RS232-C 1,200 to 2				
USB 2.0 Hi-Speed d	levice to plug a PC			
Ethernet 10/100 Mb	pit/s		DHCP, HTTP/HTTPS, FTP/FTPS, TIM	reb service, OPC UA, WebDAV IE, NTP, Zeroconf, SNMP, SMTP, VNC
1 USB host on the c	control panel	for plugging		LAN stick, USB Bluetooth adapter
2 USB hosts on the		for plugging	a keyboard, barcode scanner, USB WLAN stick with a rod antenna, USB B	an USB stick, USB WLAN stick, luetooth adapter, external operation pane
	or peripheral plugging			
0 /	e providing 8 inputs and 8 out	puts	[]
Operating data				
Voltage				50/60 Hz, PFC
Consumption of po			<10 W in standby / 100	
Temperature / hum	nidity	Operation	+5 - 40°C / 10 - 85 9	%, not condensing
		Stock	0 - 60°C / 20 - 85 %	6, not condensing
		Transport	–25 - 60°C / 20 - 85	%, not condensing
Approvals			CE, FCC Class A, I	CES-3, cULus, CB
		in preparation	CCC, Mexico Reg., I	BIS, BSMI, KC-Mark
Control panel				
Color LCD	Diagonal	"	4	.3
	Resolution Width x Height	рх		< 480

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

Technical data

■ standard □ option

Setup options					Codes	
	Print Labels Ribbon Tear off Cut Interfaces Error		Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation		1D barcodes (linear)	Code Code EAN EAN/ EAN/ EAN/ FIM HIBC
Status bar			Interpreter		2D codes, stacked codes	Data Data
	Receive data Record datastream Warning to a ribbon end SD memory card plugge USB stick plugged	ding	Bluetooth WLAN Ethernet USB slave Time			QR c Micro GS1 GS1 PDF
Controls						Micr UPS
Test routines	Ribbon 1/2 - Winding - Prior warning - End of ribbon Running out of materia	ıl	Print head 1/2 - Voltage - Temperature - open Peripheral error			GS1 Azte Coda Doto RSS
System diagnostics	upon startup, detectior	n of pri	nt head included			All co 0°, 9
Information display, test printout, analysis	Status printout Fonts list List of units		Test grid Label profile List of events			Feas and
Status reports	WLAN status		Monitor mode		Software	
Status reports	 Printout of print durat Status of a unit reques Display of errors relate or peripheral device, a 	sted by ed to a	software command network, barcode		Label software	cabla cabla cabla cabla
Fonts					Running also with	COD
Integral		vector			-	Nice
			Medium GB-Mono virate Condensed Bold	-	Stand-alone operation	BarT
	16 x 32 dotsGaOCR-AHaOCR-BMoSw	aruda	gHeiLight Ice 821 1		Windows printer drivers for	Winc Winc Certi
For storing	TrueType fonts	115512.			Apple printer drivers	Мас
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, EBCDIC 500		57, 862, 864, 866, 869		Linux printer drivers	mini CUP: mini
	ISO 8859-1 to -10 and -1 WinOEM 720 UTF-8	L3 to -10	6		Programming	JScr abc ZPL
	MacRoman DEC MCS				Integration	SAP Data
	KOI8-R Western European		Cyrillic		Administration	Print Conf
	Eastern European Chinese, simplified Chinese, traditional Thai		Greek Latin Hebrew Arabian			Free www
Bitmap	1 mm to 3 mm wide and Zoom factors 2 to 10 0°, 90°, 180°, 270° orient	U		(OPC UA	
Vector / TrueType	0.9 mm to 128 mm wide Continuous zoom 360° orientation in step	e and h		v	Ill the latest cab print vith machines and co n industrial plants. Ar	mpon
Styles	bold, italic, underlined, - depending on the font	, outlin t type	e, inverse			
Character spacing	proportional or monos	pace			n-:	
Graphics						
Elements	lines, arrows, rectangle - filled or gradient		· •	ļ	See fi	
Formats	PCX, IMG, BMP, TIF, MAC	∟, GIF, F	NG			

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 Exte 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, s All codes may vary in height, 0°, 90°, 180°, 270° orientatio Feasibility of check digits, J and start/stop coding depen	tacked, omni-directional modular width and ratio. ons olain text printouts
Software		
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
Apple printer drivers	Mac OS X 10.6 or any later r minimum driver version 1.4	
Linux printer drivers	CUPS 1.2 or any later release minimum driver version 1.4	se 🗖
Programming	JScript printer language abc Basic Compiler ZPL II (datastream be teste	d in advance)
Integration	SAP Database Connector	
Administration	Printer control Configuration on the Intrar	net and Internet

ee and Open Source software in cab products: ww.cab.de/opensource

have been designed ready for interacting onents of different manufacturers PC UA server is part of the firmware.



er information on o.de/en/opcua

Accessories / optional equipment

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

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.

2.1	SD memory card	3.1 Print roller coating DR4 Synthetic rubber is standard
2.2	USB stick	for highly accurate print results. DRS4 Silicon is an option in particular when printing on textile materials.
2.3	USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode	DR4 Extra long life cycles Slim print rollers They allow for accurate print results
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 	with small materials and ribbons. Type materials as wide as DR4-M30 30 mm DD4 M60 60 mm
2.5	USB Bluetooth adapter	DR4-M80 80 mm DRS4-M35 35 mm
2.6	Adapter 40/100 for picking up label rolls with a core diameter of 100 mm One adapter is sufficient if processing materials no more than 50 mm wide.	3.2 Standard print rollers serving also for a draw roller on the separator
3.3	Digital I/O interface Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed simultaneously.	Typematerials as wide asDR4120 mmDR54120 mm
3.4	I/O interface plug SUB-D, 25 pins, for connecting all control signals to the I/O interface	

Rewinding

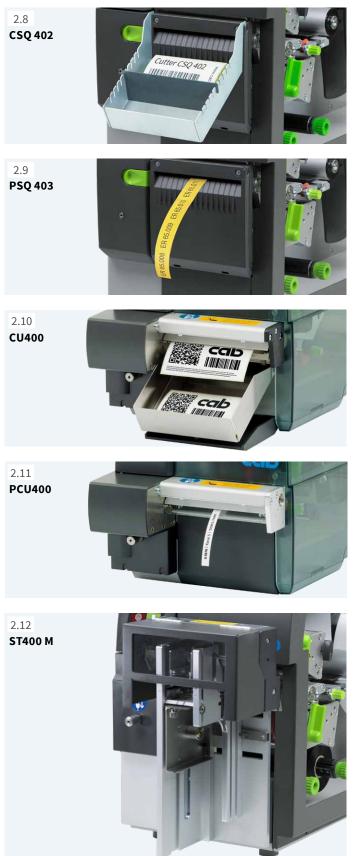


External ER4 rewinder, power supply built in

Label webs may be wound outside or inside. They are wound consistently and tight by electronic control, with a pendulum arm.

External rewinde	r	ER4/210	ER4/300
Width of a metaria	l mm max.	12	20
Roll diameter	mm max.	205	300
Tightening axle	core diameter in mm	7	6
Winding		outside	or inside
Voltage		100 - 240 \	/, 50/60 Hz
Adapter kit			

Cutting, perforating, stacking



Cutters and perforation cutters

Paper, cardboard, textile and synthetic materials can be cut resp. perforated, so can shrink tubes, continuous or ready for use.

Differences between CSQ and CU resp. PSQ and PCU cutters:

- CSQ / PSQ can be pivoted to simplify material changeover.
- CSQ / PSQ are cutting twice as fast as CU /PCU cutters.
- CU / PCU cutters are still recommended with textile operations.

If perforating with a PSQ, six off-cuts remain at the center, each at a distance of 2.5 mm. At the left and right of a perforation, the material is entirely cut. If perforating with a PCU, there is off-cutting along the entire width.

Cutter	CSQ 402		CU400	
Perforation cutter		PSQ 403		PCU400
Material:				
Passage width mm max.	12	20	1	20
Passage height mm max.	2	.0	2	2.0
Weight (cardboard) gr/m ² max.	30	00	3	00
Thickness mm max.	1	.1	1	1
Perforation: Distance between off-cuts mm	-	2.5	-	2.5
Off-cut width mm	-	0.4	-	0.5
Number of off-cuts	-	6	-	48
Cutting length mm at least	10	10	5	5
Perforation length mm at least	-	3	-	5
Tray Materials as wide as mm	100	100	100	100
Performance cuts/min at use of material 1 mm high, no backfeed	20	00	1	00
	no final cutter position			
Controls	cutter cover removed		-	

ST400 M stacker providing a cutter

Printed materials can be cut and then collected. Print jobs stop if the maximum number of labels have been collected. Limitations may occur with stiff or curved materials. cab recommends to have such operations tested.

Stacker p	providing a cutter		ST400 M
Material	Passage width	mm	20 - 100
	Passage height r	nm max.	1.2
	Weight (cardboard)	gr/m²	60 - 300
	Thickness	mm	0.05 - 0.8
Cutting ler	ngth	20 - 150	
Performar at use of m	nce aterial 1 mm high, no	100	
Limit of collecting mm max.			100
Controls:	no final cutter stacker cover c		

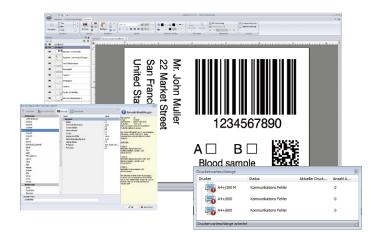
Support table - label W x H

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

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

Printer control

Drivers



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



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

Einux

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

Printer Vendor program

cab as a member of this program developed a replace method for controlling cab printers from SAP¹ 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.).

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 administration

Configuration on the Intranet / 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.



Delivery program

Label printers

Pos		ltem no.	Designation
1.1		6011500 6011505	XD Q4/300 label printer XD Q4.2/600 label printer
1.2		6011502 6011507	XD Q4/300-C2 label printer with a CSQ 402 cutter XD Q4.2/600-C2 label printer with a CSQ 402 cutter
1.3		6011501 6011506	XD Q4/300-P3 label printer with a PSQ 403 perforation cutter XD Q4.2/600-P3 label printer with a PSO 403 perforation cutter

xxx - .250 options assembled

Wear parts

Pos.	,	Item no.	Designation
			Print head 2/600 Print head 4/300
		As for print rollers, see accessories	

Scope of delivery				
	Label printer Type E+F power cable, 1,8 m Connecting USB cable, 1.8 m Instructions DE / EN			
Provided online	Instructions 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			
https://setup.cab.de/en				
Accessories				

Accessories

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

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

Pos.		ltem no.	Designation		
2.1	L.	5977370	SD memory card		
2.2		5977730	USB stick		
2.3	2	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	2	5977732	USB Bluetooth adapter		
2.7	6	5959622.xxx	Adapter 40/100		
2.8		5984565.xxx	CSQ 402 cutter tray provided		
2.9		5984130	PSQ 403 perforation cutter tray provided		
2.10		5978900	CU400 cutter tray provided		
2.11		5978901	PCU400/2,5 perforation cutter tray provided		
2.12	- Fr	5541599	ST400 M stacker providing a cutter		
	8 6	55xxxxx	Support table, label W x H Item no. specific to order		
2.13		5948100 5946090	External ER4/210 rewinder External ER4/300 rewinder		
2.14		6011757	X series adapter kit		
3.1		5953700.xxx 5953701.xxx 5953702.xxx	DR4-M30 print roller DR4-M60 print roller DR4-M80 print roller		
		5977813.xxx 5977812.xxx	DRS4-M35 print roller DRS4-M50 print roller		
3.2		5954180.xxx 5954985.xxx	DR4 print roller DRS4 print roller		
3.3		5551447.xxx	Digital I/O interface		
3.4		5917651	I/O interface plug SUB-D, 25 pins		

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

Accessories / optional equipment

Delivery program

Label software

Pos.		ltem no.	Designation
11.7		Bundle	cablabel S3 Lite (download on cab.de/en)
		5588001	cablabel S3 Pro 1 WS
		5588100	cablabel S3 Pro 5 WS
		5588101	cablabel S3 Pro 10 WS
		5588150	cablabel S3 Pro 1 additional licence
	and the second second second	5588151	cablabel S3 Pro 4 additional licences
		5588152	cablabel S3 Pro 9 additional licences
		5588002 5588105 5588106 5588155 5588156 5588157 in preparation	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 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- tions	Control panel	Windows driver	Service manual	cablabel S3			
European Union								
Bulgarian	Х	Х	Х		Х			
Danish	Х	Х	Х					
German	Х	Х	Х	Х	Х			
Estonian	Х	Х	Х					
Finnish	Х	Х	Х					
French	Х	Х	Х		Х			
Greek	Х	Х	Х					
English	Х	Х	Х	Х	Х			
Italian	Х	Х	Х		Х			
Croatian	Х	Х	Х					
Latvian	Х	Х	Х					
Lithuanian	Х	Х	Х					
Dutch	Х	Х	Х					
Polish	Х	Х	Х		Х			
Portuguese	Х	Х	Х					
Romanian	Х	Х	Х					
Swedish	Х	Х	Х					
Slovak	Х	Х	Х					
Slowenian	Х	Х	Х					
Spanish	Х	Х	Х		Х			
Czech	Х	Х	Х		Х			
Hungarian	Х	Х	Х					
Europe (Nor	ı-EU)							
Macedonian	Х	Х	Х					
Norwegian	Х	Х	Х					
Russian	Х	Х	Х		Х			
Serbian	Х	Х	Х					
Turkish	Х	Х	Х					
Asia								
Chinese (simplified)	Х	Х	Х		Х			
Chinese (traditional)	Х	Х	Х		Х			
Japanese	0	0	Х					
Korean	0	0	Х		Х			
Thai	Х	Х	Х					
Middle East								
Persian		Х						
Arabian		Х						

O in preparation

Overview of cab products



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. Chelmsford, MA Phone +1 978 250 8321 www.cab.de/us

Mexico cab Technology, Inc. Juárez Phone +52 656 682 4301 www.cab.de/es Taiwan cab Technology Co., Ltd. Taipei Phone +886 (02) 8227 3966 www.cab.de/tw

China cab (Shanghai) Trading Co., Ltd. Shanghai Phone +86 (021) 6236 3161 www.cab.de/cn Singapore cab Singapore Pte. Ltd. Singapore Phone +65 6931 9099 www.cab.de/en

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