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Label printers for printing on both sides of a material



## XD Q label printers for printing on both sides of a material



### **Particularities**

- 300 dpi if printing as wide as 105.7 mm,
   600 dpi at widths no more than 54.1 mm with print roller DR4-M60
  - The 300 and 600 dpi printheads are not interchangeable in the device.
- 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 lifted by hand or automatically. Ribbons are removed or stopped by an electromechanical brake.
- An automated mechanics reducing the consumption of ribbon is provided on print head 1 when printing on the bottom of a material. While the material is fed, the print head is lifted and the ribbon stopped.

- Print images remain continuous when cutting or perforating at no backfeed.
- Multiple print jobs can be printed seamless and without loss of labels.
- CSQ cutters and PSQ perforation cutters are provided.
- Please find full documentation on the Internet.
   DVDs are no longer part of delivery.
- A separator is integrated to the chassis. It reliably separates a ribbon from a continuous material and improves the accuracy of feeding.

Textile operations pre-punched labels and identification strips



Cable marking shrink tubes continuous and ready for use



Labels printing only on the top of a material using print head 2



## Models



Centered guidance of materials



1.1 **XD Q providing a tear-off plate**All materials wound on rolls or reels can be printed, so can fanfold ones.

Label printer		XD Q4/300	XD Q4/600
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, textile and synthetic materials can be cut, so can shrink tubes.

Label printer		XD Q4/ 300-C2	XD Q4/ 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 long as	mm max.	100	100



### 1.3 XD Q providing a PSQ 403 perforation cutter

Continuous materials such as textiles or shrink tubes can be perforated, to separate by hand at a later stage. The materials can be cut as well.

Label printer		XD Q4/ 300-P3	XD Q4/ 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 long as	mm max.	100	100

### Technical data

typical ■ standard □ option Label printer XD Q4/300 XD Q4/600 Guidance of materials centered centered Print method Thermal transfer Print resolution 300 600 dpi Print speed mm/s max. 200 100 Print width 105.7 54.1 mm max. Automated mechanics reducing the consumption of ribbon Materials1) Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec Shrink tube ready for use continuous, pressed Textile strip Finishing Roll, fanfold Roll diameter 300 mm max. Core diameter 38 1 - 76 mm Winding outside or inside 10 - 110 Label Width mm 20 Height mm at least Thickness 0.05 - 0.6 mm Liner Width 14 - 114 mm Thickness 0.05 - 0.16 mm Continuous Width 4 - 114 mm Thickness mm 0.05 - 0.5 Weight (cardboard) g/m² max. 300 Shrink tube Width ready for use mm max. 114 continuous, pressed mm 4 - 85 Thickness mm max. 1.1 Ribbon<sup>2)</sup> Color layer outside or inside Roll diameter mm max. 80 25.4 Core diameter mm 600 Length m max. Width 114 mm max. Printer dimensions, weight 248 x 395 x 594 / 21 Width x height x depth / weight mm/kg Label sensors, position indicators labels, punch marks, materials ending, Transmissive sensor detecting print marks on translucent materials labels, materials ending, Reflective sensor from below or top detecting print marks on non-translucent materials Sensor distance centre to locating edge centered mm 0 - 55 Material passage mm max. **Interfaces** RS232-C 1,200 to 230,400 baud / 8 bit USB 2.0 Hi-Speed device to plug a PC LPD, RawIP printing, SOAP web service, OPC UA, WebDAV Ethernet 10/100 Mbit/s DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC 1 USB host on the control panel a service key, an USB stick, USB WLAN stick, USB Bluetooth adapter to plug a keyboard, barcode scanner, an USB stick, USB WLAN stick, 2 USB hosts on the back of a unit to plug USB WLAN stick with a rod antenna, USB Bluetooth adapter, external operation panel USB host, 24 VDC, to plug peripherals Digital I/O interface providing 8 inputs and 8 outputs П **Operating data** 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 -25 - 60°C / 20 - 85 %, not condensing Transport CE, FCC Class A, ICES-3, cULus, CB, CCC Approvals under examination CoC Mexico, EAC, BIS, BSMI, KC-Mark **Control panel** Color LCD 4.3 Diagonal touchscreen Resolution width x height 272 x 480 рх

<sup>1)</sup> Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

<sup>&</sup>lt;sup>2)</sup> A ribbon should be at least as wide as the liner material.

■ standard □ option

## Technical data

Setup options		
	Print Labels Ribbon Tear off Cut Interfaces Error	Region: - language - country - keyboard - time zone Time Display: - brightness - power saving mode - orientation Interpreter
Status bar		DI I II
	Data received Record datastream Pre-warning on ribbon of SD memory card plugged USB stick plugged	
Controls		
	Ribbon 1/2 - winding - pre-warning - ending End of material	Print head 1/2 - voltage - temperature - open Separator open Peripheral error
Test routines		
System diagnostics Information display, test printout, analysis	upon startup, print head Status printout Fonts list List of units WLAN status	d detection included  Test grid  Label profile  List of events  Monitor mode
Status reports	- Printout of print durati - Device status request t - Display of errors relate or peripheral device, a	by software command d to a network, barcode
Fonts		0
Integral	12 x 12 dots A 16 x 16 dots C 16 x 32 dots G OCR-A H OCR-B M	vector fonts: R Heiti Medium GB-Mono G Triumvirate Condensed Bold aruda anWangHeiLight onospace 821 wiss 721
To be stored		wiss 721 Bold
Sets of characters	EBCDIC 500 ISO 8859-1 to -10 and -1 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai	Cyrillic Greek Latin Hebrew Arabian
Bitmap	1 mm to 3 mm wide and Zoom factors 2 to 10 0°, 90°, 180°, 270° orient	
	0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1°	
Vector / TrueType		s of 1°
Vector / TrueType Styles	360° orientation in steps bold, italic, underlined,	outline, inverse
Styles	360° orientation in steps bold, italic, underlined, - depending on the font	outline, inverse type
	360° orientation in steps bold, italic, underlined,	outline, inverse type
Styles Character spacing	360° orientation in steps bold, italic, underlined, - depending on the font	outline, inverse type pace

		= 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 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D codes, stacked codes	All codes may vary in he 0°, 90°, 180°, 270° orienta Feasibility of check digit	d, stacked, omni-directional ight, modular width and ratio. ations
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 certified WHQL for	Windows 7 Se Windows 8 Se Windows 8.1 Se Windows 10 Se	erver 2008 erver 2008 R2 erver 2012 erver 2012 R2 erver 2016 erver 2019
Apple printer drivers	for Mac OS X 10.6 or any	later release
Linux printer drivers	based on CUPS 1.2 or ar	ny 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 Int	ranet 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 to interact with machines and components of different manufacturers in industrial plants. An OPC UA server is part of the firmware.





## Optional equipment

Parts or units to perform special functions can be assembled to a printer in addition to or instead of standards. If order implies equipment be assembled ex factory, the part numbers of such printers and options are added by .250. Separate deliveries are added by .001.





#### Slim print rollers

They allow for precise print images with slim materials and ribbons. DR4-M30 with liner or continuous materials no more than 30 mm wide DR4-M60 with liner or continuous materials no more than 60 mm wide DR4-M80 with liner or continuous materials no more than 80 mm wide Synthetic rubber coating for extra high print image accuracy





#### **DRS4** print roller

with materials no more than 120 mm wide

Silicone coating for extra long life cycles, accepting higher tolerances in print image accuracy





#### Adapter 40/100

to pick up label rolls with a core diameter of 100 mm One adapter is sufficient if processing material no more than 50 mm wide.





### Digital I/O interface

Print jobs are triggered via a PLC, a sensor or a hand switch. Simultaneously, status and error reports are indicated.

### Accessories

### Equipment plugged or screwed to a printer by a customer

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 to extend the range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or lifrastructure mode
2.5	USB Bluetooth adapter
2.6	I/O interface plug, SUB-D, 25 pins All control signals are connected to the I/O interface using clamping screws.

### **Further accessories:**

- CU400 cutter
- PCU400 perforation cutter



### Accessories

### Equipment plugged or screwed to a printer by a customer



### CSQ 402 cutter

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

#### PSQ 403 perforation cutter

Continuous materials such as textiles or shrink tubes can be perforated, to separate by hand at a later stage. The materials can be cut as well.

### Tray

Label heights can be set, a maximum of 50 labels be collected.



Cutter			CSQ 402	
Perforat	ion cutter			PSQ 403
Material	Width	mm max.	13	20
	Weight (cardb	ooard) gr/m² max.	30	00
	Thickness	mm max.	1.1	1.5
Perforation	n Distance betv	veen off-cuts mm	-	2.5
	Width of off-ci	uts mm / quantity	-	0.4 / 6
Cutting length mm at least		mm at least	1	0
Length of p	perforation	mm at least	-	3
Tray materials as long as mm max.		10	00	
Material passage mm max.		mm max.	2	.0
Performance cuts/min at use of material 1 mm high, no backfeed		20	00	
Controls			ter position, ff cutter	



### ST400 M stacker including a cutter

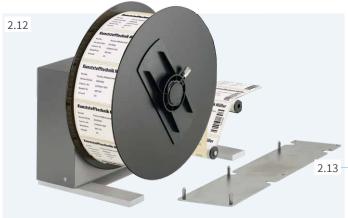
Printed materials can be cut and then collected.

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 including a cutter			ST400 M
Material	Width	mm max.	20 - 100
	Weight (cardb	oard) gr/m² max.	60 - 300
	Thickness	mm max.	0.05 - 0.8
Cutting ler	ngth	mm at least	20 - 150
Material pa	assage	mm max.	1.2
Performance cuts/min at use of material 1 mm high, no backfeed		,	100
Limit of collecting mm max.		mm max.	100
Controls			no final cutter position, paper jam, cover open, limit of collecting



## **External ER4 rewinder,** power supply installed It operates also with printers other than cab.

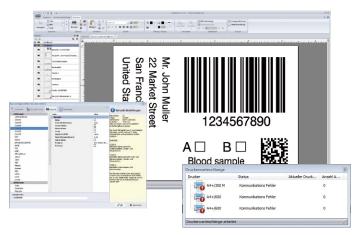
Label webs may be wound outside or inside.

<b>External rewinde</b>	r	ER4/210	ER4/300
Width of a material	mm max.	12	20
Roll diameter	mm max.	205	300
Tightening axle	core diameter mm	7	6
Winding		outside	or inside
Voltage		100 - 240 \	/, 50/60 Hz
X series kit to adapt			
ER4 to XD Q			

### 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.







### Printer control



#### **Drivers**

cab provides 32 / 64 bit drivers for controlling printers with software other than cablabel S3. Running the drivers requires operating systems Windows<sup>1)</sup> Vista, Mac OS X<sup>2)3)</sup> 10.6 and Linux<sup>3)</sup> CUPS 1.2 or any later releases.



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

### **Programming**



#### **JScript**

cab printers embed JScript language.
Download free manual on www.cab.de/en/programming

c 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 PLCs.

### Integration



cab as a member of this program developed a replace method for controlling cab printers from SAP<sup>4</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.).

## 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 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.

- 1) Windows is a registered trademark of Microsoft Corporation
- <sup>2)</sup> MAC OS X is a registered trademark of Apple Computer, Inc.
- 3) SQUIX, MACH 4S, EOS, HERMES Q, AXON, PX Q units
- <sup>4)</sup> SAP and associated logos are trademarks or registered trademarks of SAP SE.

## Delivery program

### **Label printers**

Pos.		Part no.	Designation
1.1		6011500 6011505	XD Q4/300 label printer XD Q4/600 label printer
1.2	XOO	6011502 6011507	XD Q4/300-C2 label printer with a CSQ 402 cutter XD Q4/600-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 Q4/600-P3 label printer with a PSQ 403 perforation cutter

Scope of delivery
Label printer Power cable type E+F, 1.8 m Connecting USB cable, 1.8 m Instructions DE / EN

	<b>Provided online</b>	
https://setup.cab.de/en	Instructions Configuration man Service manuals D Spare parts lists DE Programming man Windows printer di Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10  cablabel S3 Lite so cablabel S3 Viewer Database Connect	E / EN E / EN ual EN rivers certified WHQL for Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019 ftware

### **Optional equipment**

Pos.		Part no.	Designation
		5953700.xxx	DR4-M30 print roller
3.1		5953701.xxx	DR4-M60 print roller
		5953702.xxx	DR4-M80 print roller
3.2		5954985.xxx	DRS4 print roller
3.3	6	5959622.xxx	Adapter 40/100
3.4		5977767.xxx	Digital I/O interface

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

### Accessories

Pos.		Part no.	Designation	
2.1		5977370	SD memory card	
2.2		5977730	USB stick	
2.3	<b>2</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	<b>2</b>	5977732	USB Bluetooth adapter	
2.6		5917651	I/O interface plug, SUB-D, 25 pins	
	cob	6010186	External control panel	
2.7		5907718	Connecting USB cable, 1.8 m	
		5907730	Connecting USB cable, 3 m	
		5907750	Connecting USB cable, 5 m	
	1	5907760	Connecting USB cable, 11 m	
		5907765	Connecting USB cable, 16 m	
2.8		5948205	Label selection - I/O box	
2.9		5984565	CSQ 402 cutter	
2.10		5984130	PSQ 403 perforation cutter	
2.11	F	5541599	ST400 M stacker including a cutter	
	8	55xxxxx	Support table, width x height of a label	
2.12	CA.	5948100 5946090	External ER4/210 rewinder External ER4/300 rewinder	
2.13		5965712	X series adapter kit	

x - user-specific part no. according to order

### **Wear parts**

Pos.		Part no.	Designation
		5977385.001 5987089.001	Print head 2/600 Print head 4/300
		5954180.001	DR4 print roller

# Delivery program

### **Label software**

Pos.		Part no.	Designation
11.7		Bundle	cablabel S3 Lite (download on cab.de/en)
		5588001 5588100 5588101	cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS
		5588150	cablabel S3 Pro 1 additional licence
		5588151	cablabel S3 Pro 4 additional licences
		5588152	cablabel S3 Pro 9 additional licences
		5588002	cablabel S3 Print 1 WS
		5588105	cablabel S3 Print 5 WS
		5588106	cablabel S3 Print 10 WS
		5588155 5588156	cablabel S3 Print 1 additional licence 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	*Instructions	Control panel	Windows driver	Service manual
European Union		•		
Bulgarian		Х		
Danish		Χ	Χ	
German	X	Χ	Χ	Х
Estonian		Χ		
Finnish		Х	Χ	
French	Х	Χ	X	
Greek		Χ		
English	X	Х	X	X
Italian		Χ	X	
Croatian		Χ	Χ	
Latvian		Χ		
Lithuanian		Χ	Χ	
Dutch		Χ	X	
Polish		Χ	X	
Portuguese		Χ	Χ	
Romanian		Χ		
Swedish		Χ	Χ	
Slovak		Χ	Χ	
Slowenian		Χ	Χ	
Spanish	X	Χ	Χ	
Czech		Χ	Χ	
Hungarian		Χ	Χ	
Europa (Non-EU)				
Norwegian		Χ	Χ	
Russian		Χ	X	
Serbian		Χ		
Turkish		Χ	Χ	
Asia				
Chinese, simplified		Χ	X	
Chinese, traditional		Χ	Χ	
Japanese			Χ	
Korean			Χ	
Thai		Χ	Χ	
Middle East				
Persian		X		
Hebrew			Χ	

<sup>\*</sup>permanently complemented

## Range 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** 



Label printers **XD Q** - double-sided printing



Label printers **XC** - two-color printing



Print and apply systems **HERMES Q** 



Print and apply systems Hermes C - two-color labeling



Tube labeling systems **AXON** 



Print modules PX Q



Labels, ribbons



Label software cablabel S3



Label dispensers HS, VS



Labeling heads



Marking lasers



Laser marking systems



Germany

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