



Label printers for printing on both sides of a material



XDQ 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. Transport roller for textile materials as a steel roller, for shrink tubes as rubberised roller (standard), for labels both are possible

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



-	cell Produktechnik Withelm Schiekard D-78131 Karlande	Search C	CC	Ь
-	Etikettendrucke Label Printer			
	SQUIX 4/300M	IP		
1000	Artistat No.	977007	Det Code A37 Date Code A37	CE
- 10 KA	Geranitic Seriel no. (000305		
a los an sin	Sparrurg 10	0-240V		
10000	Ferrans Ferrans	V 5.00	Made in Gern	any

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 Q4.2/600
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, textile 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 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 Q4.2/600-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 long	, as mm max.	100	100

Technical data

Label printer			XD Q4/300	XD Q4.2/600
Guidance of materia	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 mechan	ics reducing the consumption	on of ribbon		
Materials ¹⁾				
Paper, cardboard, sy	ynthetics PET, PE, PP, PI, PVC	, PU, acrylate, Tyvec		
Shrink tube	ready for use			
	continuous, pressed			
Textile strip				
Finishing	Roll, fanfold			
	Roll diameter	mm max.	3	00
	Core diameter	mm	38.1	L - 76
	Winding		outside	or inside
Label	Width	mm		- 110
	Height	mm at least		20
	Thickness	mm		5 - 0.6
Liner	Width	mm		· 114
	Thickness	mm	0.05	- 0.16
Continuous	Width	mm		114
	Thickness	mm	0.05	i - 0.5
	Weight (cardboard)	g/m² max.	3	00
Shrink tube	Width re	ady for use mm max.	1	14
	con	tinuous, pressed mm	4 -	- 85
Thickness		mm max.	1	.1
	Color layer		outside	or inside
	Roll diameter	mm max.	3	30
	Core diameter	mm	2!	5.4
	Length	m max.	6	00
Width mm max. 114		14		
Printer dimension	s, weight			
Width x height x dep		mm/kg	248 x 395	x 594 / 21
Label sensors, pos	sition indicators			
Transmissive sensor	r	detecting	labels, punch marks, materials ending, print marks on translucent materials	
Reflective sensor	from below or top	detecting	print marks on non-	erials ending, translucent materials
Sensor distance	centre to locating edge	centered mm		- 55
Material passage		mm max.		2
Interfaces				
RS232-C 1,200 to 23				
USB 2.0 Hi-Speed de	evice to plug a PC			
Ethernet 10/100 Mb			DHCP, HTTP/HTTPS, FTP/FTPS, TIM	veb service, OPC UA, WebDAV IE, NTP, Zeroconf, SNMP, SMTP, VNC
1 USB host on the c	ontrol panel	to plug		VLAN stick, USB Bluetooth adapter
2 USB hosts on the l		to plug	a keyboard, barcode scanner, USB WLAN stick with a rod antenna, USB E	an USB stick, USB WLAN stick, Bluetooth adapter, external operation pane
USB host, 24 VDC, to				
	providing 8 inputs and 8 out	puts		
Operating data				
Voltage				, 50/60 Hz, PFC
Consumption of po) W in typical operation
Temperature / humi	idity	Operation		%, not condensing
		Stock		%, not condensing
		Transport		%, not condensing
Approvals				ES-3, cULus, CB, CCC
		under examination	CoC Mexico, EAC,	BIS, BSMI, KC-Mark
Control panel	Diagonal			.3

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

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	1	
	Data received Record datastream Pre-warning on ribbon e SD memory card plugge USB stick plugged	
Controls	Dibbox 1/2	Drint lage of 1 /2
	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	upon startup, print head	
Information display, test printout, analysis	Status printout Fonts list List of units WLAN status	Test grid Label profile List of events Monitor mode
Status reports	 Printout of print durati Device status request b Display of errors related or peripheral device, a 	by software command d to a network, barcode
Fonts		0
Integral	12 x 12 dots AF 16 x 16 dots CC 16 x 32 dots GG OCR-A HI OCR-B M	vector fonts: R Heiti Medium GB-Mono G Triumvirate Condensed Bold aruda anWangHeiLight onospace 821 wiss 721 wiss 721 Bold
To be stored	TrueType	
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° orienta	
Vector / TrueType	0.9 mm to 128 mm wide Continuous zoom 360° orientation in steps	and high
Styles	bold, italic, underlined,	outline, inverse
Character spacing	- depending on the font proportional or monosp	
Graphics		
Elements	lines, arrows, rectangles - filled or 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		stacked, omni-directional ht, modular width and ratio. ions plain 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 certified WHQL for	Windows 7SenWindows 8SenWindows 8.1SenWindows 10Sen	ver 2008 ver 2008 R2 ver 2012 ver 2012 R2 ver 2016 ver 2019
Apple printer drivers	for Mac OS X 10.6 or any la	
Linux printer drivers	based on CUPS 1.2 or any	later release
Programming	JScript printer language abc Basic Compiler ZPL II (datastream be test	
Integration	SAP Database Connector	
Administration	Printer control Configuration on the Intra	net 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.



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

■ standard □ option

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

Transport roller SR4

in the case of textile materials, inside the separator a transport roller made of steel must be used

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



External control panel If the control 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 to connect a printer cab provides specified connecting USE

cab provides specified connecting USB cables for power supply. Lengths are 1.8 m to 16 m

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.

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	
Perforation cutter				PSQ 403
Material	Width	mm max.	12	0
	Weight (cardb	oard) gr/m² max.	30	0
	Thickness	mm max.	1.1	1.5
Perforation	Distance betw	een off-cuts mm	-	2.5
Width of off-ci		uts mm / quantity	-	0.4 / 6
Cutting length mm at least			10	
Length of p	erforation	mm at least	-	3
Tray	materials as l	ong as mm max.	10	0
Material pas	ssage	mm max.	2.0	0
Performance cuts/min at use of material 1 mm high, no backfeed		20	0	
Controls			no final cutto cover of	

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 c	utter	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 passage mm		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.

External rewinde	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.





See further information on

www.cab.de/en/cablabel

Printer control



Drivers

cab provides 32 / 64 bit drivers for controlling printers with software other than cablabel S3. Running the drivers requires operating systems Windows¹⁾ Vista, Mac OS X²⁾³⁾ 10.6 and Linux³⁾ 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

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 PLCs.

Integration

SAP Printer Vendor program

cab as a member of this program developed a replace method for controlling cab printers from SAP⁴) 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.

XDC

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.

- $^{\scriptscriptstyle 1)}$ Windows is a registered trademark of Microsoft Corporation
- $^{\rm 2)}$ MAC OS X is a registered trademark of Apple Computer, Inc.
- ³⁾ SQUIX, MACH 4S, EOS, HERMES Q, AXON, PX Q units
- ⁴⁾ 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 Q4.2/600 label printer
1.2	ADD ADD	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 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

	Provided online		
https://setup.cab.de/en	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	E / EN	
	cablabel S3 Lite software cablabel S3 Viewer		
	Database Connector		

Optional equipment

D	n i i i i i i i i i i i i i i i i i i i				
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		5978588.xxx	Transport roller SR4		
3.4	6	5959622.xxx	Adapter 40/100		
3.5		5977767.xxx	Digital I/O interface		

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

<u>Optional equipment</u> are parts or units to perform special functions. They 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.

Accessories

Pos.		Part no.	Designation
2.1		5977370	SD memory card
2.2	1	5977730	USB stick
2.3		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
2.6		5917651	I/O interface plug, SUB-D, 25 pins
	8.	6010186	External control panel
2.7		5907718	Connecting USB cable, 1.8 m
	\frown	5907730	Connecting USB cable, 3 m
	\smile	5907750	Connecting USB cable, 5 m
	1 .5	5907760	Connecting USB cable, 11 m
		5907765	Connecting USB cable, 16 m
2.8	R	5948205	Label selection - I/O box
2.9		5984565	CSQ 402 cutter
2.10		5984130	PSQ 403 perforation cutter
2.11	-	5541599	ST400 M stacker including a cutter
	e E	55xxxxx	Support table, width x height of a label
2.12	E.	5948100 5946090	External ER4/210 rewinder
			External ER4/300 rewinder
2.13		6011757	X series adapter kit
			user-specific part no

x - user-specific part no. according to order

Wear parts

Pos.	Part no.	Designation
	 5987330.001 5987089.001	Print head 2/600 X Print head 4/300 X
	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 5588150 5588151 5588152	cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS cablabel S3 Pro 1 additional licence cablabel S3 Pro 4 additional licences cablabel S3 Pro 9 additional licences
		5588002 5588105 5588106 5588155 5588156 5588157 in	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		preparation 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		Х	Х			
German	Х	Х	Х	Х		
Estonian		Х				
Finnish		Х	Х			
French	Х	Х	Х			
Greek		Х				
English	Х	Х	Х	Х		
Italian		Х	Х			
Croatian		Х	Х			
Latvian		Х				
Lithuanian		Х	Х			
Dutch		Х	Х			
Polish		Х	Х			
Portuguese		Х	Х			
Romanian		Х				
Swedish		Х	Х			
Slovak		Х	Х			
Slowenian		Х	Х			
Spanish	Х	Х	Х			
Czech		Х	Х			
Hungarian		Х	Х			
Europa (Non-EU)						
Norwegian		Х	Х			
Russian		Х	Х			
Serbian		Х				
Turkish		Х	Х			
Asia						
Chinese, simplified		Х	Х			
Chinese, traditional		Х	Х			
Japanese			Х			
Korean			Х			
Thai		Х	Х			
Middle East						
Persian		Х				
Hebrew			Х			

*permanently complemented

Range of cab products

Label printers MACH1, MACH2



Label printers SQUIX 2



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



Tube labeling systems AXON



Label dispensers HS, VS



Label printers

Label printers

SQUIX 4

EOS 2

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



Print modules PX Q



Labeling heads



Label printers EOS 5



Label printers SQUIX 6.3



Print and apply systems HERMES Q



Labels, ribbons



Marking lasers XENO 4



Label printers **SQUIX 8.3**



Print and apply systems Hermes C - two-color labeling



Label software cablabel S3



Laser marking systems





See product information on www.cab.de/en

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