cab
we identify more

XDQ

cab

Label printers
for printing on both sides
of a material

XDQ
Made in Germany

Kreski

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl

Kreski

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. 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

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

● typical ■ standard □ option

Label printer			XD Q4/300	XD Q4.2/600
Guidance of materials			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 mechanics reducing the consumption of ribbon			●	●
Materials[1]				
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	mm max.	300	
	Core diameter	mm	38.1 - 76	
	Winding		outside or inside	
Label	Width	mm	10 - 110	
	Height	mm at least	20	
	Thickness	mm	0.05 - 0.6	
Liner	Width	mm	14 - 114	
	Thickness	mm	0.05 - 0.16	
Continuous	Width	mm	4 - 114	
	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[2]	Color layer		outside or inside	
	Roll diameter	mm max.	80	
	Core diameter	mm	25.4	
	Length	m max.	600	
	Width	mm max.	114	
Printer dimensions, weight				
Width x height x depth / weight		mm/kg	248 x 395 x 594 / 21	
Label sensors, position indicators				
Transmissive sensor		detecting	labels, punch marks, materials ending, print marks on translucent materials	
Reflective sensor	from below or top	detecting	labels, materials ending, print marks on non-translucent materials	
Sensor distance	centre to locating edge	centered mm	0 - 55	
Material passage		mm max.	2	
Interfaces				
RS232-C 1,200 to 230,400 baud / 8 bit			■	
USB 2.0 Hi-Speed device to plug a PC			■	
Ethernet 10/100 Mbit/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 control panel		to plug	a service key, an USB stick, USB WLAN stick, USB Bluetooth adapter	
2 USB hosts on the back of a unit		to plug	a keyboard, barcode scanner, an USB stick, USB WLAN stick, 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			□	
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			CE, FCC Class A, ICES-3, cULus, CB, CCC	
	under examination		CoC Mexico, EAC, BIS, BSMI, KC-Mark	
Control panel				
Color LCD	Diagonal	"	4.3	
touchscreen	Resolution width x height	px	272 x 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

	Print	Region:
	Labels	- language
	Ribbon	- country
	Tear off	- keyboard
	Cut	- time zone
	Interfaces	Time
	Error	Display:
		- brightness
		- power saving mode
		- orientation
		Interpreter

Status bar

	Data received	Bluetooth
	Record datastream	WLAN
	Pre-warning on ribbon ending	Ethernet
	SD memory card plugged	USB slave
	USB stick plugged	Time

Controls

	Ribbon 1/2	Print head 1/2
	- winding	- voltage
	- pre-warning	- temperature
	- ending	- open
	End of material	Separator open
		Peripheral error

Test routines

System diagnostics	upon startup, print head detection included	
Information display, test printout, analysis	Status printout	Test grid
	Fonts list	Label profile
	List of units	List of events
	WLAN status	Monitor mode
Status reports	- Printout of print durations, running hours, etc.	
	- Device status request by software command	
	- Display of errors related to a network, barcode or peripheral device, as well as links missing	

Fonts

Integral	5 bitmap fonts:	7 vector fonts:
	12 x 12 dots	AR Heiti Medium GB-Mono
	16 x 16 dots	CG Triumvirate Condensed Bold
	16 x 32 dots	Garuda
	OCR-A	HanWangHeiLight
	OCR-B	Monospace 821
		Swiss 721
		Swiss 721 Bold
To be stored	TrueType	
Sets of characters	Windows-1250 to -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	Cyrillic
	Eastern European	Greek
	Chinese, simplified	Latin
	Chinese, traditional	Hebrew
	Thai	Arabian
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 or gradient
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

Codes

1D barcodes (linear)	Code 39, Code 93	Interleaved 2/5
	Code 39 Full ASCII	Ident and routing code
	Code 128 A, B, C	of Deutsche Post
	EAN 8, 13	Codabar
	EAN/UCC 128/GS1-128	JAN 8, 13
	EAN/UPC Appendix 2	MSI
	EAN/UPC Appendix 5	Plessey
	FIM	Postnet
	HIBC	RSS 14
		UPC A, E, E0
2D codes, 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, 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	
	NiceLabel	
	BarTender	
Stand-alone operation		■
Windows printer drivers certified WHQL for	Windows Vista Server 2008	
	Windows 7 Server 2008 R2	
	Windows 8 Server 2012	■
	Windows 8.1 Server 2012 R2	
	Windows 10 Server 2016	
	Server 2019	
Apple printer drivers	for Mac OS X 10.6 or any later release	■
Linux printer drivers	based on 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	■

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

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 Iifrastructure 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.

2.7		**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 USB cables for power supply. Lengths are 1.8 m to 16 m
2.8		**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.

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	
Perforation cutter			**PSQ 403**
Material	Width mm max.	120	
	Weight (cardboard) gr/m² max.	300	
	Thickness mm max.	1.1	1.5
Perforation	Distance between off-cuts mm	-	2.5
	Width of off-cuts mm / quantity	-	0.4 / 6
Cutting length mm at least		10	
Length of perforation mm at least		-	3
Tray materials as long as mm max.		100	
Material passage mm max.		2.0	
Performance cuts/min at use of material 1 mm high, no backfeed		200	
Controls		no final cutter position, cover off 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 (cardboard) gr/m² max.	60 - 300
	Thickness mm max.	0.05 - 0.8
Cutting length mm at least		20 - 150
Material passage mm max.		1.2
Performance cuts/min at use of material 1 mm high, no backfeed		100
Limit of collecting mm max.		100
Controls		no final cutter position, paper jam, cover open, limit of collecting
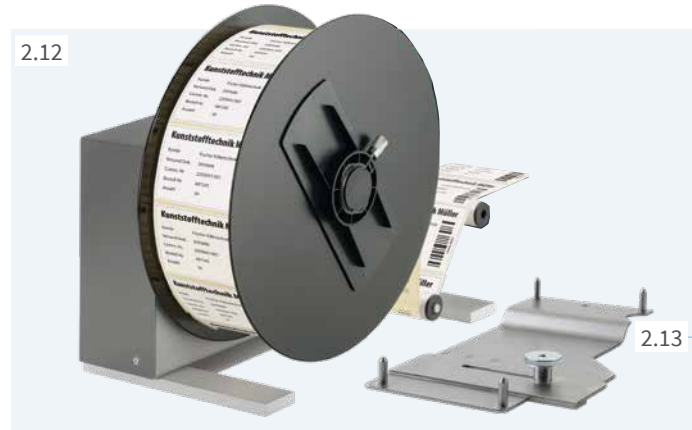
External ER4 rewinder, power supply installed
It operates also with printers other than cab.
Label webs may be wound outside or inside.

External rewinder		ER4/210	ER4/300
Width of a material mm max.		120	
Roll diameter mm max.		205	300
Tightening axle core diameter mm		76	
Winding		outside or inside	
Voltage		100 - 240 V, 50/60 Hz	
X series kit to adapt			
ER4 to XD Q			

2.13

Kreski

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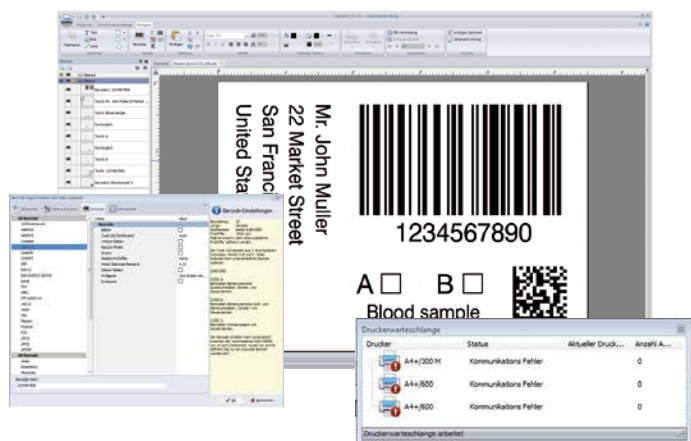
See further information on
www.cab.de/en/cablabel

Printer control

Drivers

cab provides 32 / 64 bit drivers for controlling
printers with software other than cablabel S3.
Running the drivers requires operating systems
Windows[1] Vista, Mac OS X[2)3] 10.6 and Linux[3] 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

Printer Vendor program
cab as a member of this program developed a replace
method for controlling cab printers from SAP[4] 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
[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	XD Q4/300 label printer
		6011505	XD Q4.2/600 label printer
1.2		6011502	XD Q4/300-C2 label printer with a CSQ 402 cutter
		6011507	XD Q4.2/600-C2 label printer with a CSQ 402 cutter
1.3		6011501	XD Q4/300-P3 label printer with a PSQ 403 perforation cutter
		6011506	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
Instructions
Configuration manuals DE / EN / FR
Service manuals DE / EN
Spare parts lists DE / EN
Programming manual EN
Windows printer drivers certified WHQL for

Windows Vista	Server 2008
Windows 7	Server 2008 R2
Windows 8	Server 2012
Windows 8.1	Server 2012 R2
Windows 10	Server 2016
	Server 2019

cablabel S3 Lite software
cablabel S3 Viewer
Database Connector

https://setup.cab.de/en

Optional equipment

Pos.		Part no.	Designation
3.1		5953700.xxx	DR4-M30 print roller
		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		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

Optional equipment 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		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		5977732	USB Bluetooth adapter
2.6		5917651	I/O interface plug, SUB-D, 25 pins
2.7		6010186	External control panel
		5907718	Connecting USB cable, 1.8 m
		5907730	Connecting USB cable, 3 m
		5907750	Connecting USB cable, 5 m
		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		5541599	ST400 M stacker including a cutter
		55xxxxx	Support table, width x height of a label
2.12		5948100	External ER4/210 rewinder
		5946090	External ER4/300 rewinder
2.13		6011757	X series adapter kit

x - user-specific part no. according to order

Wear parts

Pos.		Part no.	Designation
		5987330.001	Print head 2/600 X
		5987089.001	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	cablabel S3 Pro 1 WS
		5588100	cablabel S3 Pro 5 WS
		5588101	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	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	*Instructions	Control panel	Windows driver	Service manual
European Union				
Bulgarian		X		
Danish		X	X	
German	X	X	X	X
Estonian		X		
Finnish		X	X	
French	X	X	X	
Greek		X		
English	X	X	X	X
Italian		X	X	
Croatian		X	X	
Latvian		X		
Lithuanian		X	X	
Dutch		X	X	
Polish		X	X	
Portuguese		X	X	
Romanian		X		
Swedish		X	X	
Slovak		X	X	
Slowenian		X	X	
Spanish	X	X	X	
Czech		X	X	
Hungarian		X	X	
Europa (Non-EU)				
Norwegian		X	X	
Russian		X	X	
Serbian		X		
Turkish		X	X	
Asia				
Chinese, simplified		X	X	
Chinese, traditional		X	X	
Japanese			X	
Korean			X	
Thai		X	X	
Middle East				
Persian		X		
Hebrew			X	

*permanently complemented

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl

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 8.3**
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 **IXOR**	Marking lasers **XENO 4**	Laser marking systems
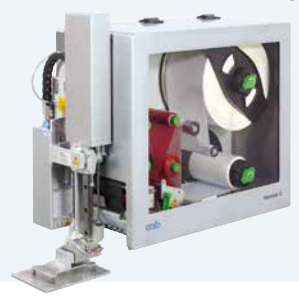
Germany
cab Produkttechnik GmbH & Co KG
Karlsruhe
Phone +49 721 6626 0
www.cab.de

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

Taiwan
cab Technology Co., Ltd.
Taipei
Phone +886 (02) 8227 3966
www.cab.de/tw

Singapore
cab Singapore Pte. Ltd.
Singapore
Phone +65 6931 9099
www.cab.de/en

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

Mexico
cab Technology, Inc.
Juárez
Phone +52 656 682 4301
www.cab.de/es

China
cab (Shanghai) Trading Co., Ltd.
Shanghai
Phone +86 (021) 6236 3161
www.cab.de/cn

South Africa
cab Technology (Pty) Ltd.
Randburg
Phone +27 11 886 3580
www.cab.de/za

cab // **820** distribution partners in more than **80** countries

cab
we identify more

© cab