Status: 05/2020

Products need labeling

Label printers with highest operating comfort

eos

Made in Germany

Types

One concept, two sizes

The EOS series combines all functions of a solid label printer with highest operating comfort.

1.1

EOS 2, the compact one

for label roll diameters up to 152 mm

Label printer		EOS 2	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	152	152
Power supply		100 - 240 VAC, 50/60 Hz	

1.2

EOS 5 for large label rolls

with diameters up to 203 mm

Label printer		EOS 5	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	203	203
Power supply		100 - 240 VAC, 50/60 Hz	

Mobile printing

in production, warehousing or agriculture, wherever labels are required and access to electricity is missing. 24 V input voltage enable the printer to be power supplied by any powerful battery. For technical battery data see accessories

1.3

EOS 2 mobile

for label roll diameters up to 152 mm

Label printer		EOS 2 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	152
Power supply		16.5 - 25 VDC

1.4

EOS 5 mobile

for label roll diameters up to 203 mm

Label printer		EOS 5 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	203
Power supply		16.5 - 25 VDC

*203 dpi on request

Details

To achieve accurate imprint with slim materials and ribbons, slim print rollers are needed. These prevent from print roller wear, print head contamination and errors during material feed.

1 Roll holder
The label roll is inserted and automatically centered when closing.

2 Ribbon holder
The stop can be adjusted according to the ribbon width.

3 Print head 203 / 300 dpi
In case of cleaning or wear, the print head can be replaced easily by hand without tools.

4 Label sensor - gap or reflective
The sensor position can be adjusted via a spindle using the red rotary knob. The chosen position is indicated by a LED.

5 Print roller DR4
In case of cleaning or wear, the print roller can be replaced without tools.

6 Material guide
Using the rotary knob, the guides can be adjusted to the material width

7 Tear-off plate
made of thin sheet steel;
jagged, so labels are cleanly separated

Operation panel

Intuitive and easy operation with self-explanatory symbols to configure the device setups

1 LED signal: Power ON

2 Status bar: Data reception, Record data stream, Ribbon pre-warning, SD memory card / USB memory stick, Bluetooth, WLAN, Ethernet, USB slave, Time

3 Printer status: Ready, Pause, Number of printed labels per print job, Label in peel-off position, Awaiting external start signal

4 USB slot for the Service Key or a memory stick, to load data in the IFFS storage

5 Operation: Cutter / perforation cutter: cutting
Tear-off mode: print label

- Jump to menu
- Reprint last label
- Interrupt and continue print job
- Stop and delete all print jobs
- Label feed

Interfaces on the back of the device

1 for a **SD memory card**

2 **2 x USB host** to connect a Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick

3 **USB 2.0 Hi-speed Device** to connect a PC

4 **Ethernet 10/100 Mbit/s**

5 **RS232C** 1,200 to 230,400 baud/8 bit

Technical data

● typical ■ standard □ option

			1.1		1.2		1.3	1.4
Label printer		**Type**	**EOS 2**		**EOS 5**		**EOS 2 mobile**	**EOS 5 mobile**
Material feed			centered					
Printing method	Thermal transfer		●		●		●	●
	Thermal direct		●		●		●	●
Printable resolution		dpi	203	300	203	300	300	300
Print speed		up to mm/s	150	150	150	150	150	150
Print width		up to mm	108	105.7	108	105.7	105.7	105.7
Start of printing	Distance to locating edge	mm	centered					
Material[1]								
Paper, cardboard, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●		●		●	●
Shrink tubes	ready-for-use		●		●		–	–
	continuous, pressed		●		●		–	–
Textile tapes			●		●		●	●
Packing	on rolls, reels		●		●		●	●
	Fanfold		□		□		–	–
	Roll diameter	up to mm	152		203		152	203
	Core diameter	mm	38.1 - 76					
	Winding		outside or inside					
Labels	Width single-lane	mm	10 - 116					
	multi-lane	mm	5 - 116					
	Height excl. label backfeed	from mm	5					
	incl. label backfeed	from mm	12					
	Thickness	mm	0.05 - 0.6					
Liner material	Width	mm	25 - 120					
	Thickness	mm	0.05 - 0.16					
Continuous material	Width	mm	5 - 120					
	Thickness	mm	0.05 - 0.5					
	Weight (cardboard)	up to g/m²	180					
Shrink tubes	Width ready-for-use	up to mm	120					
	continuous, pressed	mm	5 - 85					
	Thickness	up to mm	1.1					
Ribbon[2]	Ink side		outside or inside					
	Roll diameter	up to mm	72					
	Core diameter	mm	25.4					
	Variable length	up to m	360					
	Width	mm	25 - 114					
Printer sizes and weights								
Width x Height x Depth		mm	253 x 191 x 322		264 x 247 x 412		253 x 191 x 322	264 x 247 x 412
Weight		kg	4		5		4	5
Label sensor indicating the position								
Gap sensor		for	labels or punch marks and end of material, print marks on transparant materials					
Reflective sensor	reflex from below or top	for	labels and end of material, print marks on non-transparent materials					
Distance of sensor	from centre to locating edge	centered mm	0 - 58					
Material passage		up to mm	4					
Electronics								
Processor 32 bit clock rate		MHz	800					
Main memory (RAM)		MB	256					
Data memory (IFFS)		MB	50					
Slot to connect a SD memory card (SDHC, SDXC)		up to GB	512					
Battery for time and date, real-time clock			■					
Data memory when power is switched off (e.g. serial numbering)			■					
Interfaces								
RS232C 1,200 to 230,400 baud/8 bit			■					
USB 2.0 Hi-speed device to connect a PC			■					
Ethernet 10/100 Mbit/s			LPD, RawIP printing, SOAP webservice, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC					
1 x USB host on the operation panel		for	Service Key or USB memory stick					
2 x USB host on the back of the device		for	Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick, external operation panel					
USB WLAN stick 2.4 GHz 802.11b/g/n 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac, rod antenna			hotspot mode or infrastructure mode □					
USB Bluetooth adapter			□					
Peripheral connection USB host, 24 VDC			■					
Operating data								
Power supply			100 - 240 VAC, 50/60 Hz, PFC				24 VDC	
Power consumption			Standby 1,8 W / typical 45 W					
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, CoC Mexico, CCC, EAC, BIS, BSMI, KC-Mark					
Operation panel								
Colored LCD touch display	Screen diagonal	"	4.3					
	Resolution Width x Height	px	272 x 480					

[1] The material specifications are standard values. Applications with small labels, thin, slim, thick and stiff materials as well as strongly adherent labels have to be tested.
[2] The ribbon should at least correspond with the width of the liner material.

Technical data

■ standard ☐ option

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		
	Data reception Record data stream Ribbon pre-warning SD memory card plugged USB memory stick plugged	Bluetooth WLAN Ethernet USB slave Time
Monitoring		
	Ribbon pre-warning End of ribbon End of material	Periphery error Print head voltage Print head temperature Print head open
Test routines		
System diagnostics	on start-up, including print head detection	
Information display, test printout, analysis	Status printout Fonts list List of devices WLAN status	Test grid Label profile List of events Monitor mode
Status reports	- Printout of device settings, e.g. print lengths and service hours - Device status request by software command - Display of, e.g., network errors, no links, barcode errors, periphery errors, etc.	
Fonts		
Font types internally provided	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
to be stored	TrueType fonts	
Character sets	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 Eastern European Chinese simplified Chinese traditional Thai	Cyrillic Greek Latin Hebrew Arabic
Bitmap fonts	Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 270°	
Vector / TrueType fonts	Size in width and height 0,9 - 128 mm Variable zoom Orientation 360° in steps of 1°	
Font styles	bold, italic, underlined, outline, inverse - depending from the font types	
Character spacing	variable or monospace	

Graphics		
Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled or filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
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 and stacked	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 are variable in terms of height, modular width and ratio; orientations 0°, 90°, 180°, 270° check digit, plain text printout and start / stop code are options depending from the type of code	

Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ ☐ ☐
Also running with	CODESOFT NiceLabel BarTender	
Stand-alone operation		■
Windows printer drivers WHQL certified for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10 Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019	■
Apple Mac OS X printer drivers	from version 10.6	■
Linux printer drivers	from CUPS 1.2	■
Programming	JScript printer language abc Basic Compiler	■ ■
Integration	SAP Database Connector	■ ■
Emulation	ZPL (Datastream to be tested in advance)	☐
Administration	Printer control Configuration in Intranet and Internet Network Manager (in preparation)	■ ■ ■

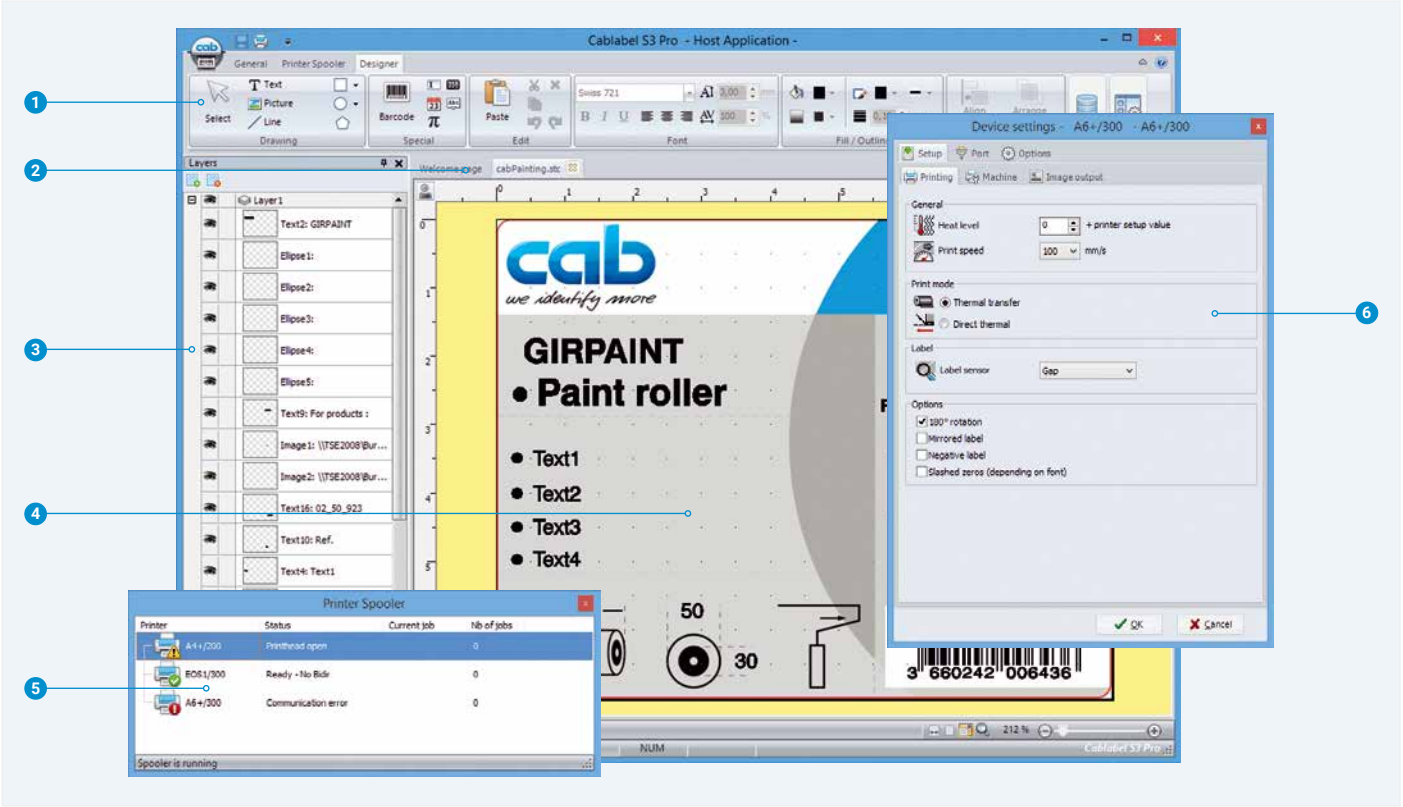
cab uses free and Open Source Software in its products.
For information see **www.cab.de/opensource**

Label software cablabel S3

Designing, printing, administrating

cablabel S3 opens up the full potential of cab devices.

First of all, the label must be designed. Only when it comes to printing it has to be decided whether the label shall be processed on a label printer, a print and apply or marker laser system. cablabel S3 is of a modular design which makes it adaptable to requirements step by step. To support functions like native JScript programming, elements such as the JScript Viewer are embedded as plug-ins. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be integrated. For further information see **www.cab.de/en/cablabel**



1. **Toolbar**
   to create different label objects
2. **Tabs**
   to quickly switch from one running label design to another
3. **Layers**
   to administrate different label objects
4. **Designer**
   simplifies the design and displays the label WYSIWYG
5. **Printer spooler**
   to monitor all print jobs and the state of the printer
6. **Drivers**
   for setting and the communication with devices

Printing in stand-alone operation

This operating mode is the printer's ability to select and print labels even when it is not connected connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are stored on a memory card, a USB memory stick or in the internal IFFS memory.

Only variable data are sent to the printer via a keyboard, a barcode scanner, scales or other host systems and/or recalled by the Database Connector from the host and printed.

Printer control

Drivers

To control the printer with a software other than cablabel S3, cab provides drivers in 32 / 64 bit for operating systems starting from Windows Vista, Mac OS 10.6 and Linux with CUPS 1.2.

Windows[1] drivers
cab printer drivers are certified according to WHQL. They ensure optimum stability on the Windows operating system.

Mac OS X[2][3] drivers
cab provides CUPS-based printer drivers for Mac OS X applications.

Linux drivers[3]
Linux drivers are CUPS-based.

Drivers are offered on the DVD delivered with the printer and for free download at **www.cab.de/en/support**

Programming

JScript
To control the printer, cab has developed the embedded programming language JScript. See manual for free download at **www.cab.de/en/programming**

abc Basic Compiler
In addition to JScript and as an integral part of the firmware, it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job. Also data from other systems such as a scale, a barcode scanner or PLC can be integrated.

Integration

Printer Vendor Program
As a partner in SAP's[4] Printer Vendor Program, cab has developed a replace method to enable easy control of a cab printer via SAPScript from SAP R/3. Only variable data are sent to the printer by the host. Pictures and fonts that had priorly been stored in the local memory (IFFS, memory card, etc.) are merged.

Step 1	Step 2	Step 3
Create a label and a replace file with cablabel S3	Use the replace file and replace the variable data in SAPScript	Printout from SAP

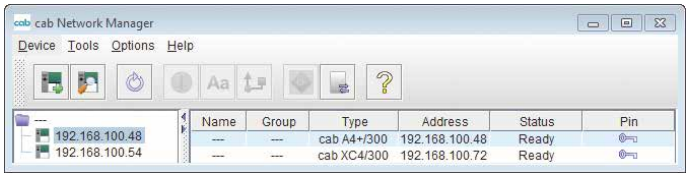
Printer administration

Configuration in Intranet and Internet

The HTTP and FTP server integrated in the printer via standard programs like a web browser or FTP clients allows printer control and configuration, firmware updates and memory card administration. Via email or SNMP, the SNMP and SMTP client datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.

Network Manager in preparation

It is possible to simultaneously manage several printers within the network. Control, configuration, firmware updates, memory card administration, data synchronization and PIN administration are supported from one single location.



Database Connector

Printers connected to a network may directly access data from a central ODBC or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.

[1] Windows is a registered trademark of Microsoft Corporation
[2] MAC OS X is a registered trademark of Apple Computer, Inc.
[3] for device series SQUIX, MACH 4S, EOS, HERMES Q, PX, PX Q
[4] SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

Accessories for all types of devices

2.3		**Print roller DR4-25** Material width up to 25 mm; synthetic rubber coating for accurate imprint
		**Print roller DR4-50** Material width up to 50 mm; synthetic rubber coating for accurate imprint
2.4		**External operation panel** providing the same functionality as on the printer Users are free to choose whether to operate the printer on the external panel or on the one integrated in the device. Printer connection: USB 2.0 Hi-speed device
		**Connecting cables USB** Lengths 1.8 to 16 m
2.5		**SD memory card** 8 GB

2.6		**USB memory stick** 8 GB
2.7		**USB WLAN stick** 2.4 GHz 802.11b/g/n
2.8		**USB WLAN stick** 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac in infrastructure mode with rod antenna for extended reach
2.9		**USB Bluetooth adapter**
2.10		**Label selection - I/O box** Up to 16 different labels per box can be selected from the memory card by a master control, e.g. PLC. Two boxes can be connected. The I/O box allows simple PLC control processes with four inputs and outputs each via abc programming.
3.1		**Connecting cable RS232 C** 9/9 pin, length 3 m

4.1

Cutter
All printable materials can be cut.
The cutter can be pivoted to exchange the material.

Technical data		Cutter for EOS 2, EOS 5
Material Width	mm	120
Weight cardboard	gr/m²	60 - 240
Thickness	mm	0.05 - 1.1
Cutting length	from mm	10
Gap height	up to mm	2.5
Cuts/min	up to	200
Label winding		preferably outside
Monitoring		Cutter pivoted, final cutter position has not been reached

4.2

Cutter and perforation cutter
Continuous materials such as textiles or shrink tubes
are perforated before they are manually separated.
In addition, the materials can also be cut.
The cutter can be pivoted to exchange the material.

Technical data		Cutter and perforation cutter for EOS 2, EOS 5
Perforating Web distance	mm	2.5
Web width	mm	0.8
Material Width	mm	45
Weight cardboard	gr/m²	60 - 240
Thickness	mm	0.05 - 1.1
Cutting length	from mm	10
Gap height	up to mm	2.5
Cuts/min	up to	200
Label winding		preferably outside
Monitoring		Cutter pivoted, final cutter position has not been reached

Accessories

5.1

External unwinder

When inserted, the material rolls are automatically centered.
The unwinder cannot be installed with EOS mobile.

Technical data		External unwinder for EOS 2, EOS 5
Roll diameter	up to mm	390
Core diameter	from mm	38
Winding		outside or inside
Roll weight	up to kg	4

5.2

Brake for fanfold labels

for EOS 2 and EOS 5. The fanfold material
is tightly fed in the printer and printed precisely.
The brake cannot be installed with EOS mobile.

6.1

Battery pack

with a charger unit already included for mobile operation.
It is installed under EOS mobile. Per battery capacity,
a maximum of 500 print jobs with a label size of 100 x 68 mm
and 15 per cent density may be processed.

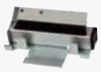
Technical data		Battery pack 2 for EOS 2, EOS 5
Nominal voltage	V	18
Capacity	Ah	2.1
Power	Wh	36
Charging time	approx. h	2
Charging voltage		100 - 240 VAC, 50/60 Hz
Dimensions W x H x D	mm	221 x 58 x 270
Weight	kg	2.5

Delivery program

Pos.		Part no.	Printers
1.1		**5978201** **5978202**	Label printer EOS 2/200 Label printer EOS 2/300
1.2		**5978211** **5978212**	Label printer EOS 5/200 Label printer EOS 5/300
1.3		**5978202.600**	Label printer EOS 2 mobile/300
1.4		**5978212.600**	Label printer EOS 5 mobile/300
		Scope of delivery	
DVD		Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Instructions DE / EN Instructions in 30 languages Configuration manual DE / EN / FR Service manual DE / EN Spare parts list DE / EN Programming manual EN WHQL certified Windows printer drivers 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 Mac OS X printer drivers DE / EN / FR Linux printer drivers DE / EN / FR Label software cablabel S3 Lite cablabel S3 Viewer Database Connector	
Pos.		**Part no.**	**Wear parts**
2.1		**5966096.001** **5965580.001**	Print head 200 dpi Print head 300 dpi
2.2		**5965488.001**	Print roller DR4
Pos.		**Part no.**	**Accessories**
2.3		**5966218.001** **5966219.001**	Print roller DR4-25 Print roller DR4-50

Scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change. The data provided in the catalog do not represent any warranty or guarantee.

Information is also available on the Internet:
www.cab.de/en/eos

Pos.		Part no.	Accessories
2.4		**6010186** **5907718** **5907730** **5907750** **5907760** **5907765**	External operation panel Connecting cable USB , 1.8 m Connecting cable USB, 3 m Connecting cable USB, 5 m Connecting cable USB, 11 m Connecting cable USB, 16 m
2.5		**5977370**	SD memory card 8 GB
2.6		**5977730**	USB memory stick 8 GB
2.7		**5978912.001**	USB WLAN stick 2.4 GHz 802.11b/g/n
2.8		**5977731**	USB WLAN stick with rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.9		**5977732**	USB Bluetooth adapter
2.10		**5948205**	Label selection - I/O box
3.1		**5550818**	Connecting cable RS232 C 9/9 pin, length 3 m
4.1		**5965520** **5966730**	Cutter EOS 2 Cutter EOS 5
4.2		**5965910** **5969891**	Cutter and perforation cutter EOS 2 Cutter and perforation cutter EOS 5
5.1		**5965586**	External unwinder EOS
5.2		**5953753**	Brake for fanfold labels EOS
6.1		**5542640** **5542660**	Battery pack 2 EOS 2 Battery pack 2 EOS 5
Pos.		**Part no.**	**Label software**
11.7		Bundle **5588001** **5588100** **5588101** **5588150** **5588151** **5588152** **5588002** **5588105** **5588106** **5588155** **5588156** **5588157** in preparation	cablabel S3 Lite (Download at cab.de/en) cablabel S3 PRO 1 WS cablabel S3 PRO 5 WS cablabel S3 PRO 10 WS cablabel S3 PRO 1 add. licence cablabel S3 PRO 4 add. licences cablabel S3 PRO 9 add. licences cablabel S3 Print 1 WS cablabel S3 Print 5 WS cablabel S3 Print 10 WS cablabel S3 Print 1 add. licence cablabel S3 Print 4 add. licences cablabel S3 Print 9 add. licences cablabel S3 Print Server
11.10		**9008486**	Programming manual EN, printed copy

cab product overview

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

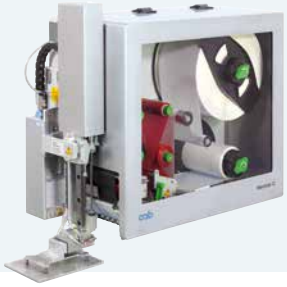
Label printer
A8+

Label printer
XD4T

Label printers
XC

Print and apply systems
HERMES Q

Print and apply systems
Hermes C



Tube labeling systems
AXON

Print modules
PX Q

Labels and ribbons

Label software
cablabel S3

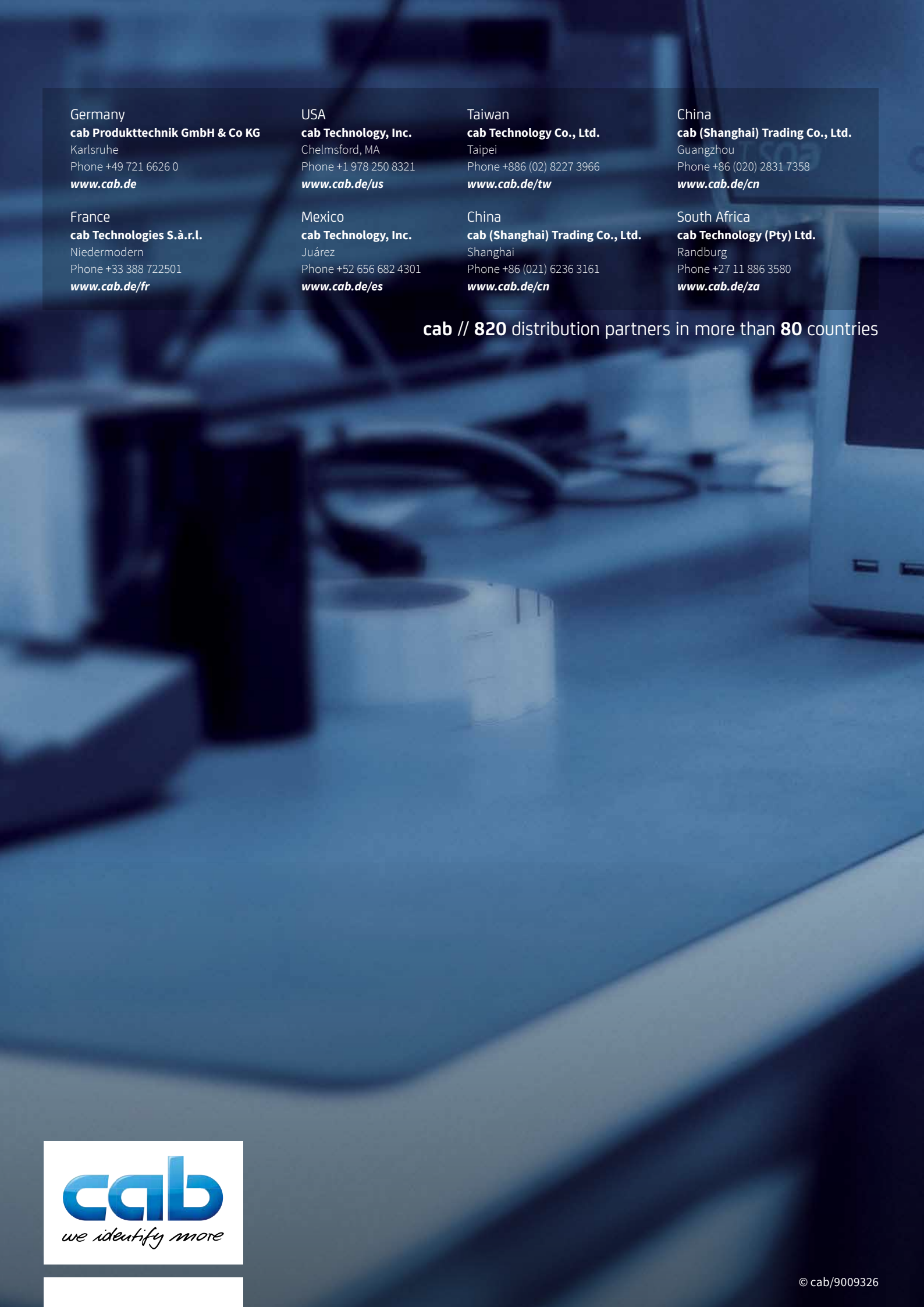
Label dispensers
HS, VS

Labeling heads
IXOR

Marking lasers
XENO 4

Laser marking systems

For product information see **www.cab.de/en**



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