Status: 11/2025

Products need labeling

Label printers with highest operating comfort

EOS5/300M

for industrial operation

Types

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

1.1

eos5 for industrial operation - with metal hinged cover

with diameters up to 203 mm

Label printer		EOS 5/300M
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		100 - 240 VAC, 50/60 Hz

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 Metal-frame print module
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, WLAN, Ethernet, USB slave, Time

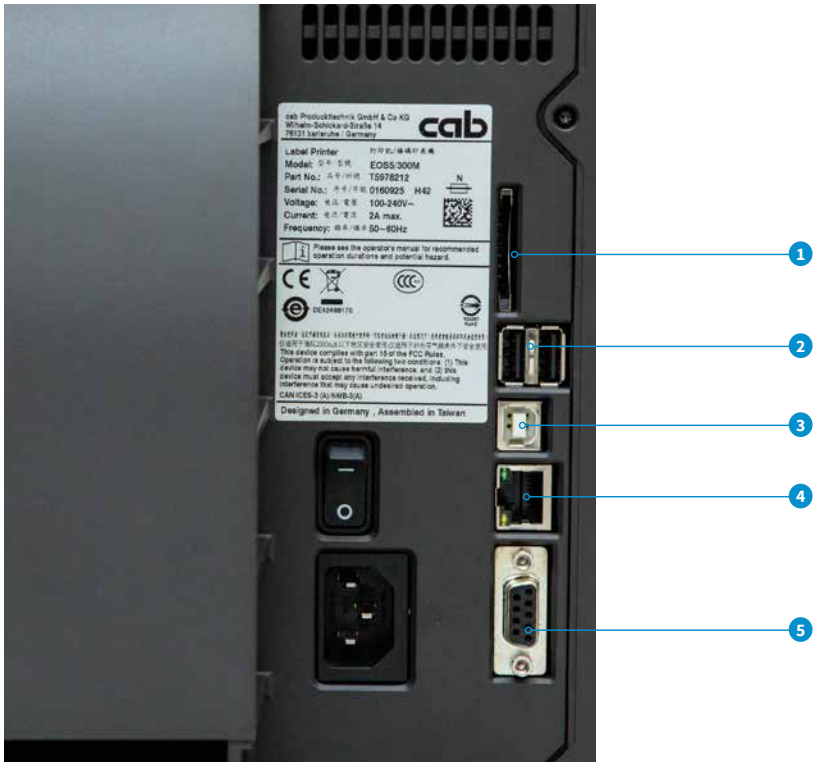
3 Printer status: Ready, Pause, Number of printed labels per print job, Label in peel-off position, Awaiting external start signal

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

5 Operation:

- Cutter / perforation cutter — cutting a material
- Tear-off mode — print a label
- Tear-off mode — label backfeed
- Jump to menu
- Reprint
- Stop and delete all print jobs
- Label feed
- Suspend and continue a print job

Interfaces on the back of the device



1. Slot for a **SD memory card**
2. **2 x USB host** to connect a Service Key, USB memory stick, keyboard, barcode scanner, USB WLAN stick, external control panel
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

Label printer	Type		1.1 EOS 5/300M
Material feed			centered
Printing method	Thermal transfer		●
	Thermal direct		●
Printable resolution		dpi	300
Print speed		up to mm/s	150
Print width		up to mm	105.7
Print length		up to mm	6,000
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	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	0.03 - 0.16
Continuous material	Width	mm	5 - 120
	Thickness	mm	0.03 - 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	264 x 247 x 412
Weight		kg	8.4
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 IPv4 and IPv6			LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC
2 x USB host on the control panel, 2 x USB host on the back of a unit			Service Key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control 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 □
Peripheral connection USB host, 24 VDC			■
Operating data			
Power supply			100 - 240 VAC, 50/60 Hz
Power consumption			Standby <5 W / typical 45 W / max. 100 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, UKCA, FCC Class A, ICES-3, cULus, CB, CCC, BIS, BSMI, KC-Mark, Mexico Reg.
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	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	
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 and stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code rMQR code GS1 QR code GS1 DataMatrix GS1 Digital Link (QR and 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 Loftware Spectrum NiceLabel BarTender	■
Stand-alone operation		■
Windows printer drivers certified WHQL for	Windows 10 Windows 11 Server 2016 Server 2019 Server 2022	■
Apple printer drivers	Mac OS X 10.6 or any later release	■
Linux printer drivers	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 in Intranet and Internet	■ ■

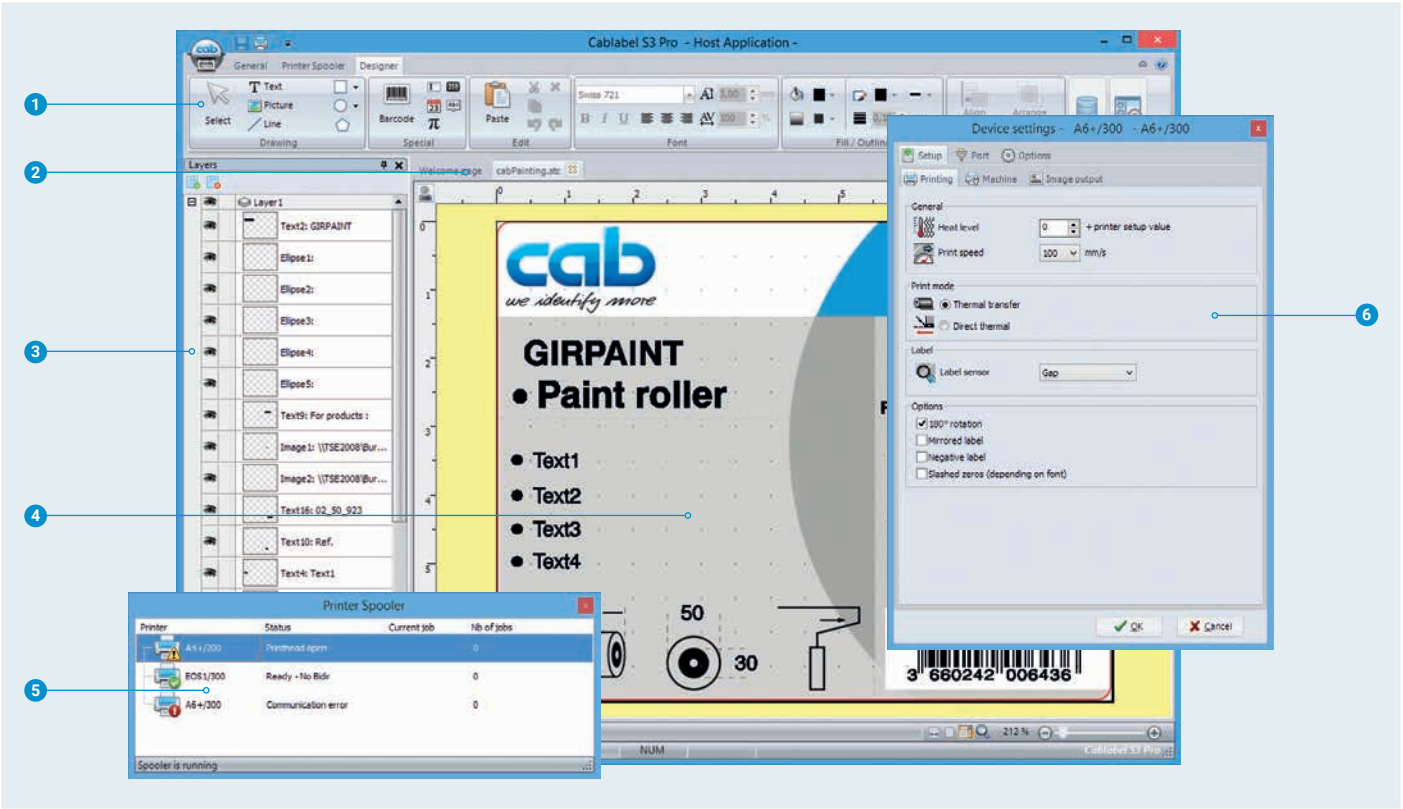
cab uses free and Open Source Software in its products.
For information see **www.cab.de/opensource**

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

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

Free download on **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.

Connecting to SAP®

Labels can be printed from SAP[1] on cab devices and systems. There are various methods:

- Printing with SAPscript
- Printing with SmartForms
- Printing with Adobe Interactive Forms

See instructions in detail on **www.cab.de/en/sap**

[1] SAP and associated logos are trademarks or registered trademarks of SAP SE.

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.

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.

Delivery program

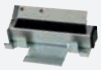
Pos.		Part no.	Printers
1.1		**T5978212**	Label printer EOS 5/300M
		Scope of delivery	
		Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Instructions DE / EN	
		Provided online	
	https://setup.cab.de/en	Instructions in 30 languages Configuration manual DE / EN / FR Service manual DE / EN Spare parts list DE / EN Programming manual EN Windows printer drivers certified WHQL for Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 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		**5965580.001**	Print head 300 dpi
2.2		**5965488.001**	Print roller DR4

Pos.		Part no.	Accessories
2.3		**5966218.001** **5966219.001**	Print roller DR4-30 Print roller DR4-60

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**	External operation panel
		5907718.850	Connecting cable USB , 1.8 m
		5907730.850	Connecting cable USB, 3 m
		5907750.850	Connecting cable USB, 5 m
		5907760.850	Connecting cable USB, 11 m
		5907765.850	Connecting cable USB, 16 m
2.5		**5977370**	SD memory card
2.6		**5977730**	USB memory stick
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
2.10		**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

Pos.		Part no.	Label software
11.7		Bundle	cablabel S3 Lite (Download at 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 add. licence
		5588151	cablabel S3 PRO 4 add. licences
		5588152	cablabel S3 PRO 9 add. licences
		5588002	cablabel S3 Print 1 WS
		5588105	cablabel S3 Print 5 WS
		5588106	cablabel S3 Print 10 WS
		5588155	cablabel S3 Print 1 add. licence
		5588156	cablabel S3 Print 4 add. licences
		5588157	cablabel S3 Print 9 add. licences
		in preparation	cablabel S3 Print Server
11.10		**9008486**	Programming manual EN, printed copy

Overview 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

Label printers
XC Q two-colored

Print and apply systems
HERMES Q

Print and apply systems
Hermes C two-colored

Tube labeling systems
AXON 1

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**

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

South Africa
cab Technology (Pty) Ltd.
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Phone +27 11 886 3580
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