

Status: 03/2022



Products need labeling  
Label printers  
for industrial applications



**MACH 4S**  
Made in Germany

## Key features



### MACH 4S

Label printers for industrial applications

The **MACH 4S** provide all features of an industrial printer with a wide application range.

The print mechanics and the chassis are made of high-quality materials and perfectly match in terms of shape and function.

The large, colored touchdisplay with self-explanatory symbols offers best operability.

Labels and ribbons are easy to insert from the front.

The centered material guide eliminates any need of adjustments.

The hightech electronic board integrates all the needed interfaces as standard and is ready for any connection.

- reliable and fast printing
- accurate imprint
- compact, appealing design
- easy operation
- little footprint

Sample applications:

#### PCB labels

When only little space is available  
– smallest label size 5 x 5 mm

#### Type plates

Pin sharp fonts, graphics and barcodes  
up to 600 dpi

#### Cardboard box and pallet labels

up to a passage width of 120 mm



## Types



Material guide  
centered



### 1.1 Type B with tear-off edge

for printing on all materials that are wound on rolls or reels or fanfold.

Label printer		MACH 4.3S		MACH 4S	
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	300	300	300	150
Print width	up to mm	104	108.4	105.7	105.7

### 1.2 Type P with peel-off function

for printing on all materials that are wound on rolls or reels or fanfold. In addition, the labels can be dispensed.

Label printer		MACH 4.3S		MACH 4S	
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	300	300	300	150
Print width	up to mm	104	108.4	105.7	105.7
Label height	from mm	12			

### 1.3 Type C with cutter

for printing on all materials that are wound on rolls or reels or fanfold. From 12 mm in height, the labels and continuous materials can be cut.

Label printer		MACH 4.3S		MACH 4S	
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	300	300	300	150
Print width	up to mm	104	108.4	105.7	105.7
Cutting length	from mm	12			
Gap height	up to mm	2.5			
Cuts/min, without material	up to	100			
Stop print job when		final cutter position has not been reached			

## Accessories



### 2.16 External rewriter ER4/210

Label winding is either outside or inside. An adapter kit for exact alignment of the external rewriter is included in the delivery.

External rewriter		ER4/210
Material width	up to mm	120
Roll diameter	up to mm	210
Core diameter	mm	40 in cases of a rewind axle or a cardboard core 76 in cases of a cardboard core and an adapter
Winding		outside or inside

## Details

### 1 Cover with a large panoramic window

It can be opened wide. The integrated damping mechanism provides smooth closing. Label stock is visible at any time.

### 2 Roll holder

The label roll is put onto the holder and, at this, is automatically centered. Materials of different widths can be placed within the box.

### 3 Ribbon holder

The ribbon is pushed onto the spring-mounted holder and is centered by means of a margin stop and the position indication. The insertion in the print mechanics is simple and comfortable.

### 4 Print mechanics

It opens at the push of a button and offers easy access.

### 5 Print heads

All print heads are freely interchangeable. They are automatically detected and calibrated by the CPU. Major data such as running performance, maximum operating temperature and heat energy are directly stored in the print head. The data can be read at the plant.

### 6 Gap sensor

It is arranged for labels or punch marks and end of material as well as for print marks in a centered position. In case of multi-track labels, you can switch to a sensor that is shifted 10 mm to the left.

### 7 Material guide

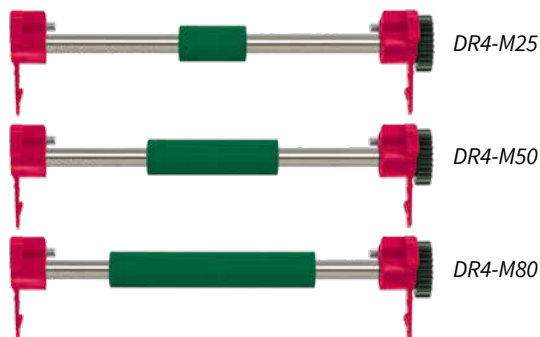
With the lateral retaining wheel the width is adjusted. At this, the labels are automatically centered.

### 8 Reflective sensor

Labels and end of material as well as print marks are identified by the slideable sensor.

### 9 Print roller DR4

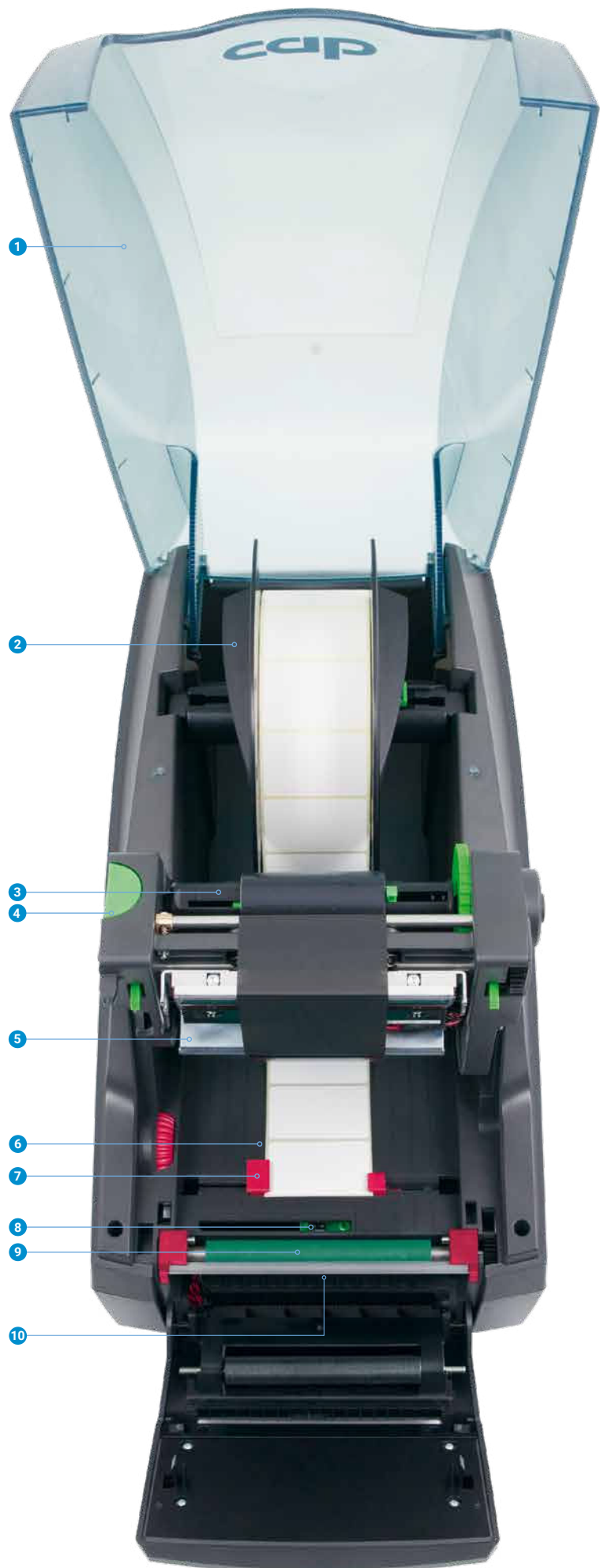
It can be quickly and easily unlocked in few steps for cleaning or replacement. Coating: synthetic rubber



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.

### 10 Peel-off function (with "P" type)







The liner tape is lead down behind the operation panel. The label separates from the liner tape on the peel-off edge. In terms of application safety, label peel-off has to be tested.

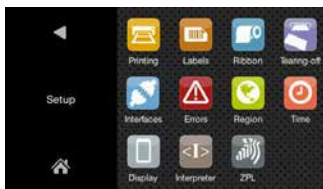




## Operation panel

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

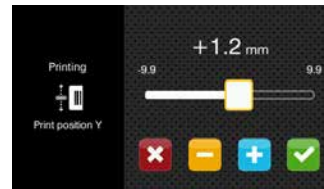
- 1 **LED signal:** Power ON
- 2 **Status bar:** Data reception, Record data stream, Ribbon pre-warning, SD memory card / USB memory stick plugged in, Bluetooth, WLAN, Ethernet, USB Slave, Time
- 3 **Printer status:** Ready, Pause, Number of printed labels per print job, Label in peel-off position, Awaiting external start signal
- 4 **Operation**
  -  Cutter: cutting  
Tear-off or peel-off mode: print label
  -  Jump to menu
  -  Reprint last label
  -  Interrupt and continue print job
  -  Stop and delete all print jobs
  -  Label feed



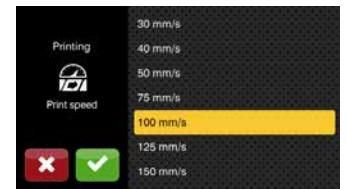
Setup options



Printing parameters



Print position Y



Print speeds

## External operation panel

If the operation panel of a printer cannot be accessed, an additional external one can be plugged.

Same functionality as on the printer  
Landscape or portrait mode  
Operability as desired on the external operation panel or on the printer

Printer connectivity: USB 2.0 Hi-Speed device

- 1 **LED:** Power ON
- 2 **USB port** to plug a service key or a memory stick, to transfer data to the IFFS memory
- 3 **Connecting USB cable** for power supply  
cab provides specified cables. Lengths are 1.8 m to 16 m.



Video tutorials



## 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 Bluetooth adapter, USB WLAN stick  
WLAN hotspot or infrastructure mode: In hotspot mode it is possible to directly connect a mobile device with the printer via WLAN.
- 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 ○ possible ■ standard □ option

Label printer		Type	MACH 4.3S		MACH 4S		
Material feed			centered				
Printing method	Thermal transfer		●	●	●	●	
	Thermal direct		●	●	○	-	
Printable resolution		dpi	203	300	300	600	
Print speed		up to mm/s	300	300	300	150	
Print width		up to mm	104	108.4	105.7	105.7	
Start of printing	Distance to locating edge	mm	centered				
<b>Material<sup>1)</sup></b>							
Paper, cardboard, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●	●	●	●	
Shrink tubes ready-for-use			●	●	●	●	
Textile tapes			●	●	●	●	
Packing on rolls, reels, fanfold			●	●	●	●	
		Roll diameter	up to mm		205		
		Core diameter	mm		38.1 - 76		
		Winding	outside or inside				
Labels	Width	mm	5 - 116				
	Height excl. label backfeed	from mm	5				
	incl. label backfeed	from mm	12				
	Peel-off, single cut	from mm	20				
	Thickness	mm	0.03 - 0.6				
Liner material	Width at core diameter 38 mm	mm	9 - 120				
	76 mm	mm	25 - 120				
	Thickness	mm	0.03 - 0.13				
Continuous material	Width at core diameter 38 mm	mm	5 - 120				
	76 mm	mm	25 - 120				
	Thickness	mm	0.05 - 0.5				
	Weight (cardboard)	up to g/m <sup>2</sup>	180				
Shrink tubes	Width ready-for-use	up to mm	120				
	Thickness	up to mm	1.1				
Ribbon <sup>2)</sup>	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				
<b>Printer sizes and weight</b>							
Width x Height x Depth		mm	240 x 317 x 435				
Weight		kg	6				
<b>Label sensor indicating the position</b>							
Gap sensor		for	labels or punch marks and end of material, print marks on transparent materials				
Reflective sensor		reflex from below	for	labels and end of material, print marks on non-transparent materials			
Distance of sensor		gap	mm	centered or shifted by 10 mm to the left			
from centre to locating edge		reflex from below	mm	adjustable from centre by 56 mm to the left or by 10 mm to the right			
Material passage		up to mm	2				
<b>Electronics</b>							
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)			■				
<b>Interfaces</b>							
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				
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			hotspot mode or infrastructure mode				
2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac, rod antenna			□				
USB Bluetooth adapter			□				
Peripheral connection for cutter or peel-off function			■				
<b>Operating data</b>							
Power supply			100 - 240 VAC, 50/60 Hz, PFC				
Power consumption			Standby <10 W / typical 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, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, EAC, BIS (4.3S/C - variations excluded), BSMI, KC-Mark				
<b>Operation panel</b>							
Colored LCD touch display		Screen diagonal	"		4.3		
		Resolution Width x Height	px		480 x 272		

<sup>1)</sup> 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, so is the peel-off function. <sup>2)</sup> The ribbon should at least correspond with the width of the liner material.

# Technical data

■ standard □ option

Setup options		
Print Labels Ribbon Tear-off Peel-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 Direction of ribbon winding 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	
Bitmap fonts	Cyrillic Greek Latin Hebrew Arabic	
Vector / TrueType fonts	Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 270°	
Font styles	Size in width and height 0,9 - 128 mm Variable zoom Orientation 360° in steps of 1°	
Character spacing	bold, italic, underlined, outline, inverse - depending from the font types	
	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, EO
2D and 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, 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 ZPL II (The datastream must 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](http://www.cab.de/opensource)

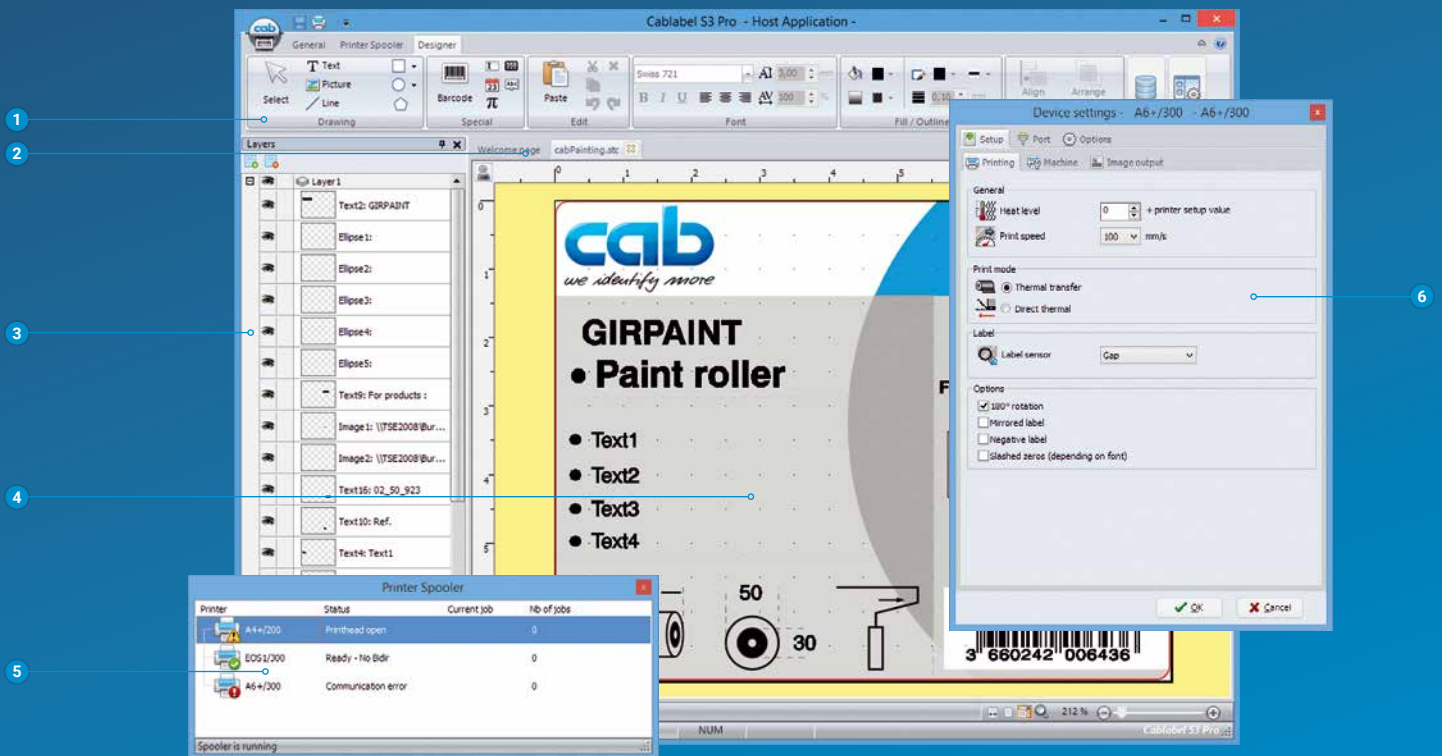
# Label software cablabel S3

## Designing, printing, administrating with cablabel S3

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 marking 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.



- 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 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.



For further information see  
[www.cab.de/en/cablabel](http://www.cab.de/en/cablabel)





# Printer control and administration

## Printer 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<sup>1)</sup> drivers

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



### Mac OS X<sup>2)</sup> drivers

cab provides CUPS-based printer drivers for Mac OS X applications.



### Linux drivers<sup>3)</sup>

Linux drivers are CUPS-based.

Free download on [www.cab.de/en/support](http://www.cab.de/en/support)

## Printer 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](http://www.cab.de/en/programming)



### abc Basic Compiler

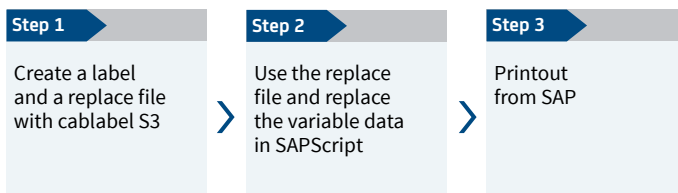
In addition to JScript and as an integral part of the firmware, it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job. Also data from other systems such as a scale, a barcode scanner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

## Printer integration



### Printer Vendor Program

As a partner in SAP's<sup>4)</sup> 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.

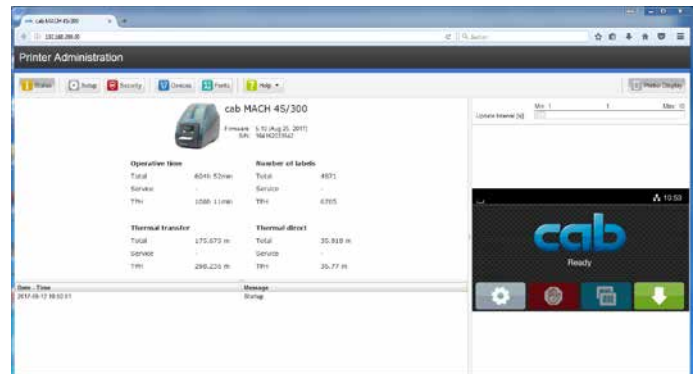


## Printer administration



### 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.












<sup>1)</sup> Windows is a registered trademark of Microsoft Corporation










<sup>2)</sup> MAC OS X is a registered trademark of Apple Computer, Inc.

<sup>3)</sup> for device series SQUIX, MACH 4S, EOS, HERMES Q, PX Q

<sup>4)</sup> SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

# Delivery program

Pos.		Part no.	Printers
1.1	 Type B with tear-off edge	<b>5984630</b> <b>5984631</b> <b>5984632</b> <b>5984633</b>	Label printer MACH 4.3S/200B Label printer MACH 4.3S/300B Label printer MACH 4S/300B Label printer MACH 4S/600B
1.2	 Type P with peel-off function	<b>5984634</b> <b>5984635</b> <b>5984636</b> <b>5984637</b>	Label printer MACH 4.3S/200P Label printer MACH 4.3S/300P Label printer MACH 4S/300P Label printer MACH 4S/600P
1.3	 Type C with cutter	<b>5984638</b> <b>5984639</b> <b>5984640</b> <b>5984641</b>	Label printer MACH 4.3S/200C Label printer MACH 4.3S/300C Label printer MACH 4S/300C Label printer MACH 4S/600C
<b>Scope of delivery</b>			
Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Instructions DE/EN			
<b>Available online</b>			
		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	
<a href="https://setup.cab.de/en">https://setup.cab.de/en</a>			
Pos.		Part no.	Wear parts
2.1		<b>5977382.001</b>	Print head 4.3/200
		<b>5977383.001</b>	Print head 4.3/300
		<b>5977444.001</b>	Print head 4/300
		<b>5977380.001</b>	Print head 4/600
2.2		<b>5984649.001</b>	Print roller DR4
Pos.		Part no.	Extra equipment
2.3		<b>5984223.001</b>	Print roller DR4-M25
2.4		<b>5984224.001</b>	Print roller DR4-M50
2.5		<b>5984228.001</b>	Print roller DR4-M80

Pos.		Part no.	Extra equipment
2.6	     	<b>6010186</b>	External operation panel
		<b>5907718.850</b>	Connecting cable USB / 1.8 m
		<b>5907730.850</b>	Connecting cable USB / 3 m
		<b>5907750.850</b>	Connecting cable USB / 5 m
		<b>5907760.850</b>	Connecting cable USB / 11 m
<b>5907765.850</b>	Connecting cable USB / 16 m		
2.7		<b>5977370</b>	SD memory card
2.8		<b>5977730</b>	USB memory stick
2.9		<b>5978912.001</b>	USB WLAN stick 2.4 GHz 802.11b/g/n
2.10		<b>5977731</b>	USB WLAN stick with rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.11		<b>5977732</b>	USB Bluetooth adapter
2.12		<b>5948205</b>	Label selection - I/O box
2.13		<b>5550818</b>	Connecting cable RS232 C 9/9 pin, length 3 m
2.14		<b>5984648.001</b>	Roll holder
2.15		<b>5984647.001</b>	Ribbon holder
2.16		<b>5540750</b>	External rewinder ER4/210
Pos.		Part no.	Label software
11.7		Bundle	cablabel S3 Lite (Download at cab.de/en)
		<b>5588001</b>	cablabel S3 Pro 1 WS
		<b>5588100</b>	cablabel S3 Pro 5 WS
		<b>5588101</b>	cablabel S3 Pro 10 WS
		<b>5588150</b>	cablabel S3 Pro 1 add. licence
		<b>5588151</b>	cablabel S3 Pro 4 add. licences
		<b>5588152</b>	cablabel S3 Pro 9 add. licence
		<b>5588002</b>	cablabel S3 Print 1 WS
		<b>5588105</b>	cablabel S3 Print 5 WS
		<b>5588106</b>	cablabel S3 Print 10 WS
<b>5588155</b>	cablabel S3 Print 1 add. licence		
<b>5588156</b>	cablabel S3 Print 4 add. licences		
<b>5588157</b>	cablabel S3 Print 9 add. licences		
		in preparation	cablabel S3 Print Server
11.10		<b>9009950</b>	Programming manual EN, printed copy

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/mach4s](http://www.cab.de/en/mach4s)

# 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 double-sided**



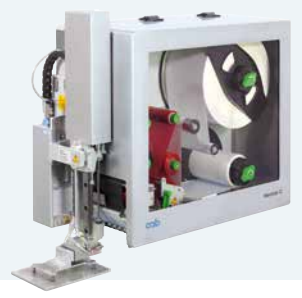
Label printers  
**XC two-colored**



Print and apply systems  
**HERMES Q**



Print and apply systems  
**Hermes C two-colored**



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





Germany  
**cab Produkttechnik GmbH & Co KG**  
Karlsruhe  
Phone +49 721 6626 0  
[www.cab.de](http://www.cab.de)

France  
**cab Technologies S.à.r.l.**  
Niedermodern  
Phone +33 388 722501  
[www.cab.de/fr](http://www.cab.de/fr)

USA  
**cab Technology, Inc.**  
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Phone +1 978 250 8321  
[www.cab.de/us](http://www.cab.de/us)

Mexico  
**cab Technology, Inc.**  
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[www.cab.de/es](http://www.cab.de/es)

Taiwan  
**cab Technology Co., Ltd.**  
Taipei  
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[www.cab.de/tw](http://www.cab.de/tw)

China  
**cab (Shanghai) Trading Co., Ltd.**  
Shanghai  
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