

## Key features



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**



## 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	14.35	MAC	H 4S
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	250	250	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	14.35	MAC	H 4S
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	250	250	300	150
Print width	up to mm	104	108.4	105.7	105.7
Label height	from mm		1	2	



## 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	14.3S	MAC	H 4S
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	250	250	300	150
Print width	up to mm	104	108.4	105.7	105.7
Cutting length	from mm		1	2	
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



## 2.15 External rewinder ER4/210

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

External rewinder		ER4/210
Material width	up to mm	120
Roll diameter	up to mm	210
Tightening axle for core diameter	mm	76
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 suchas 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.

## Material guide

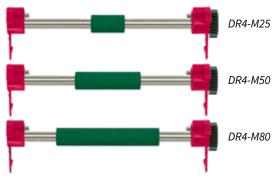
With the lateral retaining wheel the width is adjusted. At this, the labels are automatically centered.

## **1** 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.

#### 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
- 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







**Printing parameters** 



**Print position Y** 



**Print speeds** 

## External operation panel

providing the same functionality as on the printer

Landscape or portrait mode display

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

- 1 LED: Power ON
- 2 USB slot to connect the Service Key or a memory stick, to load data in the IFFS storage
- 3 Connecting cable USB, lengths 1.8 to 16 m Use only specified cables if length succeeds 3 m; for dimensions see assembly instructions

# Video tutorials 3

MACH 4S

## Interfaces on the back of the device



- 1 for a SD memory card
- 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

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

Label printer  Material feed  Printing	Туре	MACH	4.35	М	ACH 4S
					1011 43
Printing			cent	ered	
	Thermal transfer	•	•	•	•
method	Thermal direct	•	•	0	-
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	250	250	300	150
Print width	up to mm	104	108.4	105.7	105.7
Start of printing	Distance to locating edge mm		cent	ered	
Material <sup>1)</sup>					
Paper, cardboard,	PI, PVC, PU, acrylate, Tyvec	•	•	•	•
Shrink tubes	ready-for-use	•		•	•
Textile tapes	ready for use	•	•	•	•
Packing	on rolls, reels, fanfold	•	•	•	•
	Roll diameter up to mm	n 205			
	Core diameter mm		38.1	- 76	
	Winding		outside (	or inside	
Labels	Width mm		5 - 3	116	
	Height excl. label backfeed from mm			j	
	incl. label backfeed from mm		1		
	Peel-off, single cut from mm		1		
	Thickness mm		0.03		
Liner material	Width at core diameter 38 mm mm		9 - :		
	76 mm mm		25 - 1		
Cambina	Thickness mm		0.03 -		
Continuous material	Width at core diameter 38 mm mm		5-1		
	76 mm mm Thickness mm		25 - 1		
		0.05 - 0.5 180			
Shrink tubes	Weight (cardboard) up to g/m <sup>2</sup> Width ready-for-use up to mm				
Shrink tubes Width ready-for-use up to mm Thickness up to mm		120			
Ribbon <sup>2)</sup>	Ink side	1.1 outside or inside			
KIDDOII	Roll diameter up to mm				
	Core diameter mm				
	Variable length up to m				
	Width mm	25 - 114			
Printer sizes and we					
Width x Height x Dept			240 x 31	.7 x 435	
Weight	kg		6	ì	
Label sensor indicat	ing the position				
Gap sensor	for	labels or punch marks a	and end of material, print m	arks on transparant mat	erials
Reflective sensor	reflex from below for	labels and end of mater	rial, print marks on non-tra	nsparent materials	
Distance of sensor	gap mm	centered or shifted by 1			
from centre to locatir	ng edge reflex from below mm	adjustable from centre	by 56 mm to the left or by 1	0 mm to the right	
Material passage	up to mm		2		
Electronics					
Processor 32 bit clock			80		
Main memory (RAM)	MB	256			
Data memory (IFFS)	MB	50			
	memory card (SDHC, SDXC) up to GB	512 ■			
Battery for time and o	•				
Data memory when p <b>Interfaces</b>	power is switched off (e.g. serial numbering)				
RS232C 1,200 to 230,	400 haud/8 hit				
USB 2.0 Hi-speed dev					
Ethernet 10/100 BASE		LPD, IPv4, RawIP printing, DHCP, HTTP/HTTPS, FTP/FTPS, SMTP, SNMP, TIME, NTP, Zeroconf, SOAP web service, VNC			
2 x USB host on the b	ack 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 G	Hz 802.11b/g/n			]	
USB WLAN stick 2.4 G Hotspot or Infrastruc	Hz 802.11b/g/n + 5 GHz 802.11a/n/ac, ture Mode		С		
USB Bluetooth adapt					
Peripheral connectio Operating data	n for cutter or peel-off function				
Power supply		100 - 240 VAC, 50/60 Hz	, PFC		
Power consumption		Standby < 10 W / typica			
Temperature / humid	lity Operation	+5 - 40°C / 10 - 85 %, no	ot condensing		
	Stock	0 - 60°C / 20 - 85 %, no			
	Transport	–25 - 60°C / 20 - 85 %, no			
Approvals		CE, FCC Class A, ICES-3,	cULus, CB, CoC Mexico, CC	C, EAC, BIS, BSMI, KC-Ma	rk, RCM
Operation panel					
			4.	2	
Colored LCD touch di	splay Screen diagonal "  Resolution Width x Height px		480>		

<sup>&</sup>lt;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.

 $\blacksquare$  standard  $\square$  option

# Technical data

Setup options		
	Print	Region:
	Labels	- Language
	Ribbon	- Country
	Tear-off	- Keyboard
	Peel-off	- Time zone
	Cut	Time
	Interfaces	
	Error	Display:
	EIIOI	- Brightness
		- Power saving mode
		- Orientation
		Interpreter
Status bar		
	Data reception	Bluetooth
	Record data stream	WLAN
	Ribbon pre-warning	Ethernet
	SD memory card plugged	USB slave
	USB memory stick plugged	Time
Monitoring		
Monitoring	Dibboo are marine	Davishanaan
	Ribbon pre-warning	Periphery error
	End of ribbon	Print head voltage
	Direction of ribbon winding	
	End of material	Print head open
Test routines		
System diagnostics	on start-up, including print h	nead detection
Information display,	Status printout	Test grid
test printout,	Fonts list	Label profile
analysis	List of devices	List of events
•	WLAN status	Monitor mode
Status reports	- Printout of device settings,	
Status reports		
	e.g. print lengths and service	
	- Device status request by so	
	- Display of, e.g., network err	
	barcode errors, periphery e	rrors, etc.
Fonts		
Font types	5 bitmap fonts:	7 vector fonts:
internally provided	12 x 12 dots	AR Heiti Medium GB-Mono
provided		
	16 x 16 dots	CG Triumvirate Condensed Bol
	16 x 32 dots	Garuda
	16 x 32 dots OCR-A	Garuda HanWangHeiLight
	16 x 32 dots	HanWangHeiLight Monospace 821
	16 x 32 dots OCR-A	Garuda HanWangHeiLight Monospace 821 Swiss 721
to be stored	16 x 32 dots OCR-A OCR-B	Garuda HanWangHeiLight Monospace 821
to be stored	16 x 32 dots OCR-A OCR-B TrueType fonts	Garuda HanWangHeiLight Monospace 821 Swiss 721
	16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
to be stored	16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852,	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to -10	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to - WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew
to be stored Character sets	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored Character sets	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored Character sets Bitmap fonts	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored Character sets	16 x 32 dots OCR-A OCR-B  TrueType fonts  Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27 Size in width and height 0,9	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored Character sets Bitmap fonts	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27 Size in width and height 0,9- Variable zoom	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic
to be stored Character sets  Bitmap fonts  Vector / TrueType fonts	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27 Size in width and height 0,9 Variable zoom Orientation 360° in steps of 1	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic  0° -128 mm
to be stored Character sets Bitmap fonts	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27 Size in width and height 0,9 Variable zoom Orientation 360° in steps of 1 bold, italic, underlined, outli	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic  0° -128 mm  1° ne, inverse
to be stored Character sets  Bitmap fonts  Vector / TrueType fonts	16 x 32 dots OCR-A OCR-B  TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500 ISO 8859-1 to -10 and -13 to WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional Thai Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 27 Size in width and height 0,9 Variable zoom Orientation 360° in steps of 1	Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold  857, 862, 864, 866, 869 -16  Cyrillic Greek Latin Hebrew Arabic  0° -128 mm  1° ne, inverse

Graphics			
Graphic elements	Lines, arrows, rectangles, c - filled or filled with fading	ircles, ellipses	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GI	F, 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-directior 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	n CODESOFT NiceLabel BarTender		
Stand-alone operation	1		
Windows printer drivers	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 test	ed 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 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.



- 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

- 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.





## 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.



#### Windows1) drivers

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



#### Mac OS X<sup>2)3)</sup> drivers

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



#### Linux drivers3)

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

## 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

## **ABC** 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.

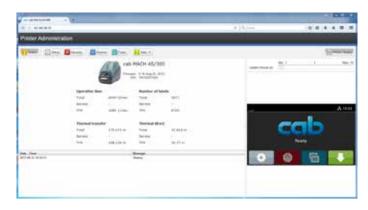


- 1) Windows is a registered trademark of Microsoft Corporation
- <sup>2)</sup> MAC OS X is a registered trademark of Apple Computer, Inc.
- 3) Only for device series SQUIX (except of SQUIX MT), MACH 4S, EOS. Hermes+ and PX
- <sup>4)</sup> SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

### Printer administration

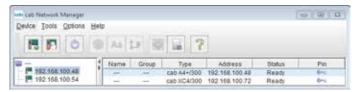
## Configuration in Intranet and Internet

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.



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.



# Delivery program

Pos.		Part no.	Printers	
1.1	Type B with tear-off edge	5984630 5984631 5984632 5984633	Label printer MAC Label printer MAC Label printer MAC Label printer MAC	CH 4.3S/300B CH 4S/300B
1.2	Type P with peel-off function	5984634 5984635 5984636 5984637	Label printer MAC Label printer MAC Label printer MAC Label printer MAC	CH 4.3S/300P CH 4S/300P
1.3	Type C with cutter	5984638 5984639 5984640 5984641	Label printer MAC Label printer MAC Label printer MAC Label printer MAC	CH 4.3S/300C CH 4S/300C
		Scope of de	livery:	
		Label printe Power cable	r Type E+F, length 1 cable USB, length 1	
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 Windows 8 Server 2012 Windows 10 Server 2015 Server 2015 Apple Mac OS X printer drivers DE/EN/FR Linux printer drivers DE/EN/FR		er drivers for Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019 DE/EN/FR		
		cablabel S3 \ Database Co		

Pos.		Part no.	Wear parts	
	2.1		5977382.001	Print head 4.3/200
2.1		5977383.001	Print head 4.3/300	
2.1		5977444.001	Print head 4/300	
		5977380.001	Print head 4/600	
2.2	7	5984649.001	Print roller DR4	
Pos.		Part no.	Extra equipment	
2.3		Part no. 5984223.001	Extra equipment Print roller DR4-M25	
			• •	

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.

Pos.		Part no.	Extra equipment
	Marrie .	6010186	External operation panel
		5907718	Connecting cable USB / 1.8 m
2.6		5907730	Connecting cable USB / 3 m
		5907750	Connecting cable USB / 5 m
		5907760	Connecting cable USB / 11 m
		5907765	Connecting cable USB / 16 m
2.7		5977370	SD memory card 8 GB
2.8		5977730	USB memory stick 8 GB
2.9		5978912.001	USB WLAN stick 2.4 GHz 802.11b/g/n
2.10		5977731	USB WLAN stick with rod antenna 2.4 GHz 802.11b/g/n+5 GHz a/n/ac
2.11	7	5977732	USB Bluetooth adapter
2.12		5948205	Label selection - I/O box
2.13		5550818	Connecting cable RS232 C 9/9 pin, length 3 m
2.14	#	5984648.001	Roll holder
2.15		5984647.001	Ribbon holder
2.16		5540750	External rewinder ER4/210
Pos.		Part no.	Label software
		Bundle	cablabel S3 Lite (Download at cab.de/en)
11.7		5588001 5588100 5588101 5588150 5588151 5588152 5588002 5588105 5588106	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. licence cablabel S3 Print 1 WS cablabel S3 Print 5 WS cablabel S3 Print 10 WS
	5588155 5588156	5588155 5588156 5588157	cablabel S3 Print 1 add. licence cablabel S3 Print 4 add. licences cablabel S3 Print 9 add. licences
		in preparation	cablabel S3 Print Server
11.10		9009950	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



Marking lasers



Laser marking systems



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