

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 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		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



2.16 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
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.

6 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

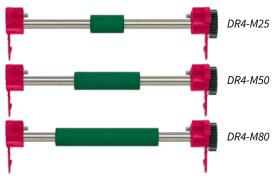
With the lateral retaining wheel the width is adjusted. At this, the labels are automatically centered.

13 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



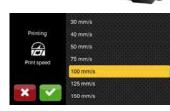




Printing parameters



Print position Y



Print speeds

External operation panel

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
- USB port to plug a service key or a memory stick, to transfer data to the IFFS memory
- Connecting USB cable for power supply cab provides specified cables. Lengths are 1.8 m to 16 m.

Video tutorials 3 3

MACH 4S

Interfaces on the back of the device



- Slot 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 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 Type			MA	CH 4.3S	МА	CH 4S
Material feed				cent	ered	
Printing	Thermal transfer		•	•	•	•
method	Thermal direct		•	•	0	-
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		cent	ered	
Material ¹⁾						
Paper, cardboard,	DI DVC DII samilata	T	•	•	•	•
	PI, PVC, PU, acrylate,	Tyvec				
Shrink tubes	ready-for-use		•	•	•	•
Textile tapes	11 1 6 6	1.1		•		•
Packing	on rolls, reels, fanfo		•	20	<u> </u>	•
	Roll diameter	up to mm		205		
	Core diameter	mm		38.1		
	Winding			outside o		
_abels	Width	mm		5-1		
	Height excl. label ba			5		
	incl. label ba			1		
	Peel-off, single cut	from mm		2		
	Thickness	mm		0.03		
iner material_	Width at core diame			9 - 1		
	-1.1	76 mm mm		25 - 1		
	Thickness	mm		0.03 -		
Continuous material	Width at core diame			5 - 1		
		76 mm mm		25 - 1		
	Thickness	mm		0.05		
	Weight (cardboard)	up to g/m²		18		
Shrink tubes	Width ready-for-use	· ·		12		
	Thickness	up to mm		1.		
Ribbon ²⁾	Ink side		outside or inside			
	Roll diameter	up to mm		7:		
	Core diameter	mm		25		
	Variable length	up to m		36	0	
	Width	mm		25 -	114	
Printer sizes and w	eight					
Width x Height x Dep	th	mm		240 x 31	.7 x 435	
Weight		kg		6		
Label sensor indica	ting the position					
Gap sensor		for	labels or punch mark	s and end of material, print m	arks on transparant mate	rials
Reflective sensor	reflex fro	m below for		erial, print marks on non-tra	nsparent materials	
Distance of sensor	gap	mm	centered or shifted by	10 mm to the left		
from centre to locati	ng edge reflex fro	m below mm		re by 56 mm to the left or by 10	0 mm to the right	
Material passage		up to mm		2		
Electronics						
Processor 32 bit cloc	k rate	MHz		80	0	
Main memory (RAM)		MB		25	66	
Data memory (IFFS)		MB		5	0	
-	memory card (SDHC,			51	2	
	date, real-time clock	·				
	•	(e.g. serial numbering)				
Interfaces		2,				
RS232C 1,200 to 230	,400 baud/8 bit					
USB 2.0 Hi-speed de	vice to connect a PC					
Ethernet 10/100 Mbi			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 b	oack 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 GH 2.4 GH	, 0,	02.11a/n/ac, rod antenna	hotspot mode or infr	astructure mode		
USB Bluetooth adap	ter					
Peripheral connection	on for cutter or peel-o	ff function				
Operating data						
Power supply			100 - 240 VAC, 50/60 F	Iz, PFC		
Power consumption			Standby < 10 W / typic	al 100 W		
Temperature / humi		n	+5 - 40°C / 10 - 85 %,			
	Stock		0 - 60°C / 20 - 85 %,	•		
	Transpor	t	-25 - 60°C / 20 - 85 %,	•		
Approvals				3, cULus, CB, CoC Mexico, CC	C, EAC,	
AUGULUVAIS			BIS (4.3S/C – variatio	ns excluded), BSMI, KC-Mark		
•••						
Operation panel Colored LCD touch d	isplay Screen di			4.		

lacktriangle typical \bigcirc possible \blacksquare standard \square option

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

 \blacksquare standard \Box option

Technical data

Setup options		
	Print	Pagion:
	Labels	Region: - Language
	Ribbon	- Country
	Tear-off	- Keyboard
	Peel-off	- Time zone
	Cut	Time
	Interfaces	Display:
	Error	- 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		
	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	
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,	
	e.g. print lengths and servi	ce hours
	- Device status request by so	ftware command
	- Display of, e.g., network en	
	barcode errors, periphery e	errors, etc.
Fonts		
Font types	5 bitmap fonts:	7 vector fonts:
	12 x 12 dots	AR Heiti Medium GB-Mono
Font types	12 x 12 dots 16 x 16 dots	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold
Font types	12 x 12 dots 16 x 16 dots 16 x 32 dots	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda
Font types	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight
Font types	12 x 12 dots 16 x 16 dots 16 x 32 dots	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821
Font types	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721
Font types	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821
Font types internally provided	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852,	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType fonts Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, EBCDIC 500	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic
Font types internally provided to be stored Character sets Bitmap fonts Vector / TrueType fonts	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic 10° -128 mm
Font types internally provided to be stored Character sets	12 x 12 dots 16 x 16 dots 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 bold, italic, underlined, outl	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic 0° - 128 mm 1° ine, inverse
Font types internally provided to be stored Character sets Bitmap fonts Vector / TrueType fonts	12 x 12 dots 16 x 16 dots 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	AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold 857, 862, 864, 866, 869 -16 Cyrillic Greek Latin Hebrew Arabic 0° - 128 mm 1° ine, inverse

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 GS1 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 w	th CODESOFT NiceLabel BarTender			
Stand-alone operati	on			
Windows printer drivers	Windows Vista Windows 7 or 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	e must be tested in advance.)		
Integration	SAP Database Connector			
Administration	Printer control Configuration in Intrane	et and Internet		

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

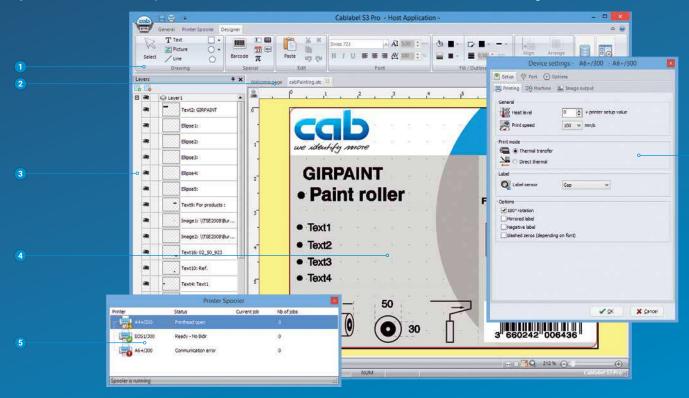
Label software cablabel S3

Designing, printing, administrating 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 X²⁾³⁾ drivers

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



Linux drivers3)

Linux drivers are CUPS-based.

Free download on 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's⁴⁾ 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

- ²⁾ MAC OS X is a registered trademark of Apple Computer, Inc.
- $^{\scriptscriptstyle{(3)}}$ for device series SQUIX, MACH 4S, EOS, HERMES Q, PX Q
- ⁴⁾ 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.



Database Connector

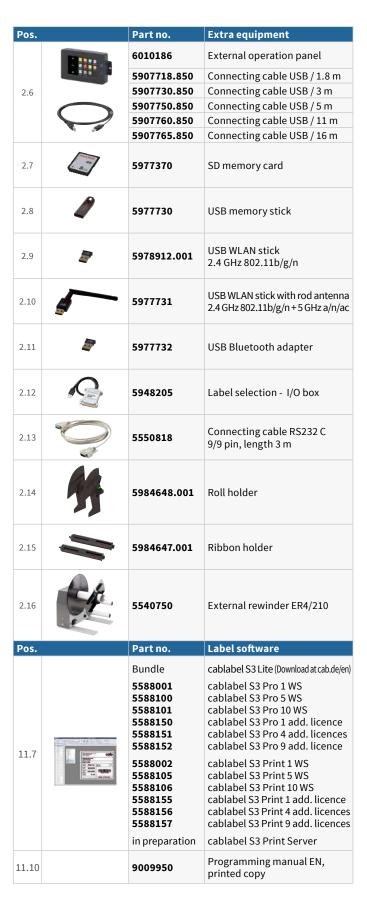
Printers connected to a network may directly access data from a central ODBC or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.



Delivery program

Pos.		Part no.	Printers	
1.1	Type B with tear-off edge	5984630 5984631 5984632 5984633	Label printer 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	5984634 5984635 5984636 5984637	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	5984638 5984639 5984640 5984641	Label printer MACH 4.3S/200C Label printer MACH 4.3S/300C Label printer MACH 4S/300C Label printer MACH 4S/600C	
		Scope of de	livery	
			Type E+F, length 1.8 m cable USB, length 1.8 m	
		Available on	ıline	
https	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 F Windows 7 Server 2008 F Windows 8 Server 2012 F Windows 8.1 Server 2016 F 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	
		5977382.00	,	
2.1	10 10 10 10	5977383.00		
		5977444.003 5977380.003	,	
2.2		5984649.00	·	
Pos.		Part no.	Extra equipment	
2.3		5984223.00		
2.4		5984224.00	1 Print roller DR4-M50	
2.5		5984228.00	1 Print roller DR4-M80	

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.







cab product overview

Label printers MACH1, MACH2



Label printers

SQUIX 2



Label printer **XD4T** double-sided



Tube labeling systems **AXON**



Label dispensers HS, VS



Label printers EOS 2



Label printers **SQUIX 4**



Label printers XC two-colored



Print modules PX Q



Labeling heads



Label printers EOS 5



Label printers SQUIX 6.3



Print and apply systems HERMES Q



Labels and ribbons



Marking lasers



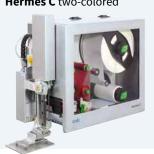
Label printers MACH 4S



Label printer A8+



Print and apply systems Hermes C two-colored



Label software cablabel S3



Laser marking systems



