



Barcode Label printer

MACH4 The Business Class.

Edition 3.1 International

cab Produkttechnik Content

Precision - Made in Germany



For more than 30 years now cab has been developing and manufacturing label marking systems for industry, commerce and services. The constant requirements of changing markets demand innovative ideas and form tomorrow's products.

Our experience and our aim to make our printers more simple in operation have made cab a leading manufacturer worldwide.

Made in Germany with a large vertical range of manufacture, our quality system is subject to DIN ISO 9001 - from receiving inspection up to consignment.

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Primary features

The future "made by cab": MACH4, the new label printer which sets new, innovative benchmarks.

It offers all the features of a high class industrial printer with a wide application range.

Labels and ribbons can be inserted from the front. The print mechanism and the cover are made of premium materials and are perfectly harmonised in their form and their functions.

Easy and comfortable handling and high reliability were the requirements during development. The large display with white backlight offers best readability.

The navigation pad with the additional "Enter" button simplifies the operation - thereby only the operated functions are indicated.

The centred label path makes adjustments unnecessary and avoids creases on the ribbon.

On the high-tech electronic board all required interfaces are serially integrated and applicable for every adapter.

MACH4 is available in three designs.

- 1. "B" Basic device
- 2. "P" with serial dispense plate
- 3. "C" Equipped with a cutter for material up to 250 g/m²

The software is compatible with the cab devices A+ and Hermes A.





4 Technical details

Detailed Perfection Convincing product advantages

1. Cover with big window

Can be opened widely. The integrated absorbability mechanism provides smooth closing.

2. Media hub

The label roll is placed within the media hub and centred automatically. Materials varying in width can be easily fit within the box.

3. Ribbon retainer

The ribbon is slid onto a ribbon supply hub with spring mounted brackets. It can be centred with a movable flange and a positioning indicator. Inserting the ribbon into the print mechanism is now easy and convenient.

4. Printing with 203, 300 or 600 dpi

The printheads can be exchanged easily from 203 to 300 dpi. The printer automatically detects the resolution.

5. Gap sensor

To detect the beginning or end of labels the gap sensor is mounted in the centre of the label path. For two or four labels in a row it is possible to use a gap sensor which can be shifted 10 mm.

6. Label guidance

With the adjustment knob the user can adjust the width of the printing area. This is to centre the labels.

7. Reflex sensor

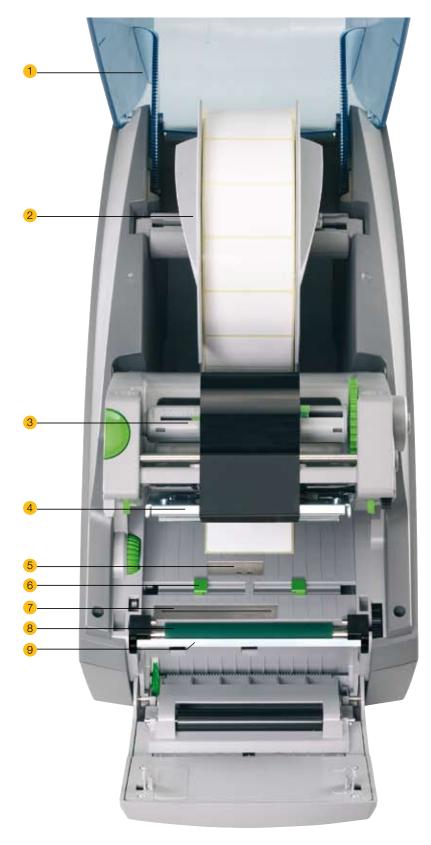
Start of label, printer's imprint and cut outs can be identified with a relocatable reflex sensor.

8. Drive roller

The drive roller can be easily removed for cleaning or replacement.

9. Peel-off-plate

The liner is guided down behind the operation panel. The label is peeled off at the peel-off-plate.



All interfaces built in

Back side of printer



■ Standard □ Option

PC/SPS interfaces

- 1. Serial RS232 C interface up to 230,400 Baud.
- 2. USB 2.0 High Speed Slave interface.
- ☐ 3. Parallel Centronics acc. IEEE 1284 The data from the Centronics interface are converted onto the USB Full Speed interface.



Network connection

- 6. Ethernet 10/100 Base T-interface with TCP/IP Protocol. Printing with LPR/LPD, Raw IP or FTP. IP adress can be set manually or obtained via DHCP. Status information and set up via internet browser. FTP for firmware updates and PC-card Type II/Compact-Flash administration. Messages can be sent via e-mail or SNMP. Time and date synchronisation through time server.
- 7. Slot for Wireless LAN-Card or **PC-Card Type II** (PCMCIA)
- ☐ 8. WLAN-card IEEE 802.11 b/g for wireles network connection, dependend on chip set. IEEE 802.11 b: 11 MBit/s, 2,4 GHz Band IEEE 802.11 g: 54 MBit/s, 2,4 GHz Band

Peripherical connection

- 9. Two **USB-Master** interfaces to connect keyboard. scanner, external operation panel
- 10. Slot for CompactFlash Type I Card

Stand-Alone operation without PC

Complete labels can be created on a PC with a labelling software program such as cablabel R2, Codesoft or Easylabel. It will be saved on a CompactFlash card in the printer.

Recall this labels from the printer with an USB keybaord. Add variable text, databases values and graphics and print out the requested labels.

Additionally data from scanners or e.g. scales can be transmitted.



6

The data for all devices

	■ St	tandard	☐ Option
1. Printhead	ľ	MACH4	1
Printing method Transfer			
thermal direct			-
Print resolution dpi	203	300	600
Print speed up to mm/s	200	200	100
Print width mm	104	105.6	105.6
2. Labels			
Material: labels, continuous mat. on rolls of	or fanfo	olded	
Thermal- Standard paper, Cardbo	ard, Te	extile,	
plastic foils PE, PP, PVC, PA, PI			
Material thickness 1) mm / Weight g/m ² 0.	07 - 0	.35 / 60	0 - 200
Media roll: Total diameter up to mm			210
Core diameter mm		38	3 - 100
Winding direction	insid	de or ou	utside
Material width mm		25	5 - 120
Label width 1) mm		20) - 116
Label height min. 1) mm			6
Label height when dispensing ¹⁾ min. mm			20
	2.000	2.000	1.000
3. Ribbon			
Ink	ins	ide or c	outside
Roll diameter up to mm		72	
Core diameter mm		25	5
Ribbon length variable up to m		36	
Width up to mm		114	4
5. Dimension printer			
Height x Depth x Width mm	312	2 x 435	x 240
Weight kg		6	
6. Label sensor			
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6. Label sensor Transmitted-light sensor for label edge, clabel end either centered or shifted 10 m	m to tl	marks ne left.	
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10. Monitoring	
Stop printing if	End of ribbon / End of labels Printhead open
11. Settings	
	Country specific (BE, BG, CN, DK, DE, GB, FI, FR, GR, IR, IT, HR, LT, MK, MX, NL, NO, PL, PT, RU, SE, CH, ES, ZA, CZ, TR, HU, US), System settings, print parameters, Interface, security.
12. Test routines	
	System diagnosis of memory and print head when switched on, short status, status print, font list, device list, profile of print head, profile of label, test grid, monitor mode.
Status reports	Extensive status print with information about instrument setting, for example print length counter, runtime counter. Request of the machine status via software command. Detailed status messages on the display, for example network error-no link, barcode error etc.
13. Fonts	
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts, Optional chinese (simplified chinese)
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported.
Bitmap fonts	Size of width and height 1 - 3 mm zoom 2 - 10 Orientation 0°, 90°, 180°, 270°
Vector-/TrueType fonts	Size of width and height 0,9 - 128 mm variable zoom, Orientation 360° in steps of 1°,
Font formats	Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts
Font width	Variable
14. Graphics	
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

¹⁾ Small label sizes, thin materials or strong glue can lead to limitations. Critical applications need to be tested and cleared.

15. Codes		
Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Ident- and lead code of german Post AG JAN 8, 13 MSI Plessey
2D-Codes	Aztec, Codablock F, I Micro PDF 417, UPS RSS 14 truncated, lin stacked omnidirectio All codes variable in and ratio. Orientatior Optionally with check racters and Start/Sto on code type.	Data Matrix, PDF 417, Maxicode, QR-Code, mited, stacked and nal, EAN-Datamatrix height, module width 10°, 90°, 180°, 270°, k digit, printed cha-

The current specifications are according to our technical knowledge. They are subject to change.

	■ Standard □ Option
16. Software	
Programming	J-Script direct programing
	abc-Basic Compiler ■
	Database Connector
System diagnosis/	cab-printer monitoring
Administration	cab-Network Manager
	cab-Card Manager
cab Label software	cablabel R2 Lite ■
	cablabel R2 Pro
More	Easylabel, Codesoft, Nicelabel,
Label software	Bartender, Label Matrix, Labelview
Windows driver	2000, XP 32/64 bit ■
	2003 32/64 bit, Vista 32/64 bit
Mac driver	OS X printer driver from version 10.3
Linux driver	Testet with Suse 9.0, ■
	CUPS based
17. Operation data	
Power supply	100 - 240 V ~ 50/60 Hz, PFC
Energy consumption	max. 300 W
Operation temperat.	10 - 35°C
Humidity	30 - 85%
not condensing	
Approvals	CE, FCC class A, CB, CCC

Accessories



Memory card			
Compact Flash Typ I	512 MB		

Speicherung von Etikettenformaten, Fonts, Texten, Grafiken. Im Drucker oder am PC les- und beschreibbar.



Keyboard	Numerical	Compact	Standard
Connection	USB	USB	USB
No. of keys	19	86	115
L x W mm	120 x 76	282 x 132	460 x 192

Zur Eingabe numerischer und alphanumerischer Daten im Stand-Alone-Betrieb.

As the implementation of the USB-standards can alter for different products, adverse effects may occur. On this account the operation and the compliance with CE-standards is only warranted by using cab-made materials or materials recommended by cab.

Media hub



For a quick replacement of labels they can be provided in additional Ribbon retainer.

Ribbon holder



For a quick replacement of ribbons they can be stored in additional trays.

Optimal output through optimal input

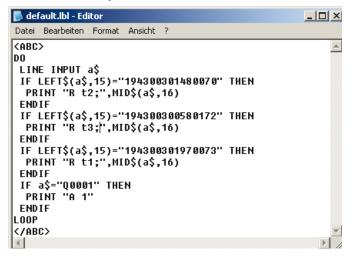
Printer Control

Direct programming with J-Script

J Job Start H 100 Speed (100 mm/s) O R Orientation rotated by 180° S I1;0,0,68,70,100 Size of label (100x68 mm, gap 2 mm) T 10,10,0,5,pt20;sample Text object/font: Swiss bold, 20 pt B 10,20,0,EAN-13,SC2;401234512345 G 8,3.5,0;R:30,9,0.3,0.3 Graphic, box 30 x 9 mm, Line strength 0.3 mm Number of labels (in this example 1)

The printer language is easy to understand and integrate into your host system. Linkage of variable data with host application. Label design, graphics and fonts are recorded on the compact flash card. The host computer sends only the variable data to the printer.

abc - Basic Compiler



As an integrated element of the firmware it enables the printer to process data via BASIC programming before being transmitted to print editing. Thereby external printer languages can be replaced or data from other systems, e.g. SPS, can be transferred to be printed on different label sizes.

Database Connector

The database connector enables stand-alone printers to link up data from a SQL-compatible database and to print. Data can be rewritten and modified simultaneously to the printing process.

Monitoring

cab printer monitoring with Intra- and Internet



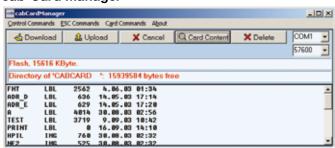
The integrated HTTP- and FTP-Server enables, with standard programs like web browser or FTP-clients, the print monitoring, configuration, the firmware-update and the administration of the memory card. Status signals, warning or error signals are sent to users or administrators either as email or SNMP-datagram via SNMP- and SMTP-clients.

Administration

cab-Network Manager

The cab network manager enables the user to govern several printers within the network at the same time. It supports monitoring, configuration, firmware updates, memory card and PIN-administration centrally.

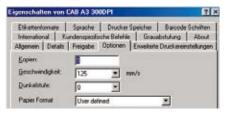
cab-Card Manager



Via RS232 the memory card can be administrated fast and easy. Label layouts, True-type text fonts, complex graphics and databases can be up- or downloaded.

cablabel software for cab printers

cab Windows driver



Create and print your label with a Windows program for ex. MS Word, Excel, Access, Works, Corel Draw etc.

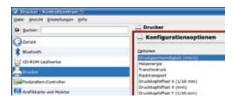
Windows printer driver are provided for 2000, XP 32/64 bit, 2003 32/64 bit, Vista 32/64 bit.

Mac OS X driver



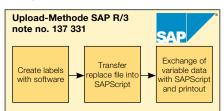
For MAC OS X cab offers a CUPS based printer driver. Please ask us.

Linux driver



For LINUX cab offers also a CUPS based printer driver.

Integration into SAP R/3



cab developed together with SAP the "replacefil" application. This is a simple way to run cab printers with SAPScript out of SAP R/3.

The software to create labels



Perfect labels need optimized text fonts. cab offers a large number of bitmap and vector fonts. Height and width of the font can be scaled and the object can be positioned and arranged. Additional true type fonts can be downloaded to the memory card. Most of the country specific codepages are supported.

Take advantage of using the multiple possibilities of cablabel R2.

cablabel R2 Lite

is equivalent to the previous Advancedversion. You get it - free of charge - with every cab printer.

cablabel R2 Pro

Assistant for UCC/EAN 128 barcode. Allows the collection of printing data from different data bases.

Wether simple texts, barcodes, graphics and the connection of databases, cablabel R2 is most flexible - all in 24 languages.

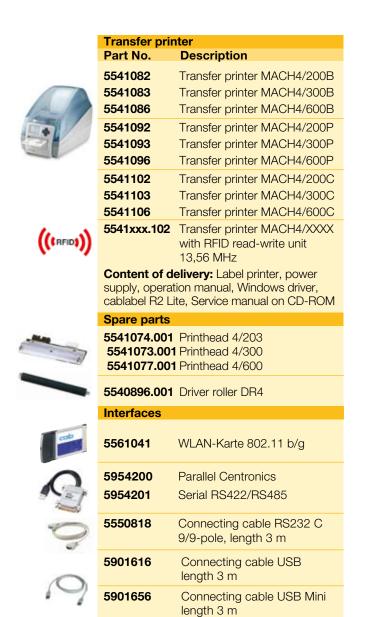
MDI (Multiple Document Interface) helps to open and handle several labels at the same time. Objects can be copied, moved and inserted into another label.

cablabel R2 provides its own drivers with individual respond to all different function of cab printers. This most effective way of communication between software and printer enables to achieve perfect results.

Additional label Software

cab offers a range of additional label software (Easylabel, Codesoft, Nice-Label) to program printers, to print and to auto-apply systems.

cablabel R2 Lite Pro 32-Bit Platform compatibility ■ Languages European Version: IR, CZ, D, DK, E, F, FIN, GB/USA, H, I, IL,N, NL, P, PL, RUS, S, TR Languages Asian Version: Chinese, EST, J, LV, ROK Label samples ■ Online documentation with 1 tutorials 40 Multi-level Undo 1 number of levels 1 Graphic format import ■ Color support ■ Color graphic reduction ■ Text art ■ TrueType font ■ Graphic barcodes ■ numbers 9 Native printer barcodes ■ Hidden (not printable) objects Label preview ■ Graphics preview ■ Grid view/print ■ OLE-Client ■ Windows driver support 0 Control of printers 1 Support of net printer ■
Languages European Version: IR, CZ, D, DK, E, F, FIN, GB/USA, H, I, IL,N, NL, P, PL, RUS, S, TR Languages Asian Version: Chinese, EST, J, LV, ROK Label samples Online documentation with tutorials Multi-level Undo number of levels 1 40 Graphic format import Color support Color graphic reduction Text art TrueType font Graphic barcodes numbers 9 37 Native printer barcodes Hidden (not printable) objects Label preview Graphics preview Graphics preview Grid view/print OLE-Client Windows driver support Control of printers 1 99
IR, CZ, D, DK, E, F, FIN, GB/USA, H, I, IL,N, NL, P, PL, RUS, S, TR Languages Asian Version: Chinese, EST, J, LV, ROK Label samples Online documentation with tutorials Multi-level Undo number of levels 1 40 Graphic format import Color support Color graphic reduction Text art TrueType font Graphic barcodes numbers 9 37 Native printer barcodes Hidden (not printable) objects Label preview Graphics preview Graphics preview Grid view/print OLE-Client Windows driver support Control of printers 1 99
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OLE-Client ■ Windows driver support ■ Control of printers 1 99
Windows driver support Control of printers Description:
Control of printers 1 99
(TCP/IP)
Bi-directional communication to
the printer
Stand-alone
Printing to file
Font Downloader
Database
Database Manager
Access, DBF ■
ASCII, ODBC, OLEDB ■
Variables
Flexible date and time stamping
Host of date and time with
Date offset Printing counter
Printing counter Host counter
Variable graphic images
Free variables
Global files
Decimal value formating
Basic formular
User Input Fields
Text alignment ■
Set input format
Minimum input length ■
Selection of default values
Automatic prompt
- 1 de l'al a
Extras









Germany

cab Produkttechnik GmbH & Co KG Postfach 1904 D-76007 Karlsruhe Wilhelm-Schickard-Str. 14 D-76131 Karlsruhe

Telefon +49 721 6626-0 Telefax +49 721 6626-249

www.cabgmbh.com info@cabgmbh.com

France

cab technologies s.a.r.l. B.P. 50020 Z.A. Nord du Val de Moder F-67350 Niedermodern Téléphone +33 388 722 501 info@cab-technologies.fr

España

cab España S.L. Josep Pla 9, 6°, 2ª E-08304 Mataró (Barcelona) Teléfono +34 937 414 605 info@cabsl.com

USA

cab Technology Inc. 90 Progress Avenue Unit #2 Tyngsboro MA, 01879 Phone +1 978 649 0293 www.cabtechn.com info@cabtechn.com

South Africa

cab Technology (Pty.) Ltd. 14, Republic Road 2125 Randburg Phone +27 11-886-3580 info@cabtech.co.za Asia 亞洲分公司 希愛比科技股份有限公司 cab Technology Co, Ltd. 台灣台北縣板橋市 民生路一段33號十九樓之一 19F-1, No. 33, Sec. 1, Min Sheng Road Panchiao 220, Taipei, Taiwan, R.O.C. 電話 Phone +886 2 2950 9185 網址 www.cabasia.net 詢問 cabasia@cabgmbh.com

Representatives in other countries on request.