



Barcode / Label printer

MACH4 The Business Class

Edition 2 International 2 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 to 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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MACH4 – The new generation of transfer printer

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.

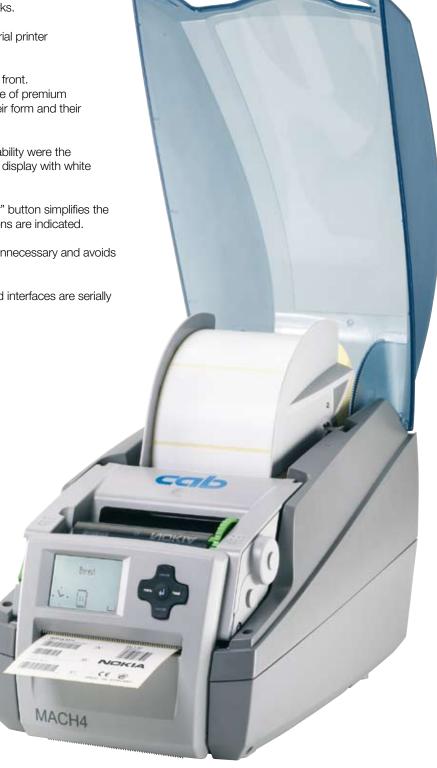
The centred label path makes adjustments unnecessary and avoids creases on the ribbon.

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

MACH4 is available in three designs.

- 1. 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

It is made of shock-resistant synthetic material. The integrated absorbability mechanism provides smooth closing. The labels, the ribbon and the printing device are protected against contamination.

2. Media hub

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

3. Ribbon re-winder and un-winder

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 comfortable.

4. Printing with 200, 300 or 600 dpi

The print heads can be exchanged easily. Automatic print head identification.

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 8 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

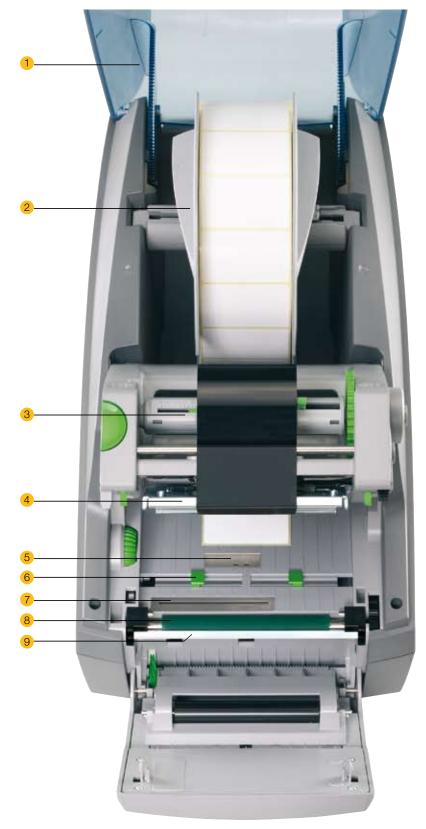
Start of label, printer's imprint and cut outs can be identified with a relocatable reflex sensor.

8. Drive roller

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

9. Peel-off-plate

The ribbon 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



PC-Connections

- 1. Serial RS232 C interface up to 230.400 Baud
- 2. USB 2.0 High Speed Slave interface

For Stand-alone operation without PC

- 3. Two USB-Master interfaces for keyboard or scanner
- 5. Slot CompactFlash-card to store fixed data
- 7. Slot for PC-Card Type II (PCMCIA)

Network connections

4. 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/CompactFlash administration.

Error messages can be sent via e-mail or SNMP. Time and date synchronisation through time server

7. Wireless LAN-connection via plug-in-card

Additional optional interfaces



7. WLAN-card IEEE 802.11 b/g





8. Parallel Centronics acc. IEEE 1284

The data from the Centronics interface are converted onto the USB 2.0 High Speed interface. PC connection: 25-pin SubD plug

Printer connection: USB Master



Serial RS422 interface for long distance communication.

Serial RS485 for networking up to 26 printers.

Serial interface: 25-pin SubD plug Printer connection: USB Master



10. Twinax-Converter for connection with IBM AS/400 Printer connection: serial RS 232 C 9-pin SubD plug

11. Coax-Converter for connection with IBM 3270 Printer connection: serial RS 232 C 9-pin SubD plug



12. Label selection box

Up to 16 different input signals for automatic loading and printing of labels from the memory card. Serial interface: 25-pin SubD plug

Printer connection: USB Master

The data for all devices

1. Printhead		■ St	andard 🗌 Option
Print resolution dpi Print speed up to mm/s Print speed up to mm/s Print speed up to mm/s Print width up to mm 2. Labels Material: labels, continuous mat. on rolls or leporello Thermal- a. Standard paper, Cardboard, Textil, plastic foils PE, PP, PVC, PA, PI Material thickness mm / Weight g/m² 0.07 - 0.35 / 60 - 250 Media roll: Total diameter up to mm 210 Core diameter mm 38 - 100 Winding direction Material width mm with a thickness 0.25 - 0.35 mm 25 - 120 with a thickness 0.25 - 0.35 mm 25 - 120 with a thickness 0.25 - 0.35 mm 25 - 120 Label width when dispensing¹¹ min. mm 25 Label height min. mm 2 - 12 Label height men. mm 2 - 2000 3. Ribbon Ink inside or outside Roll diameter up to mm 2 - 2000 3. Ribbon length variable up to m 360 Width up to mm 360 Label sensor See through for start of label and end of material middle fixed, optional 8 mm adjusted Reflex sensor from below for label start, printed marks, cut outs, adjustable from the middle 56 mm 7. Elektronics Processor high speed 32 Bit ColdFire/speed MHz 8. Operation panel Digts/LEDS iluminated while operation Pause, Feed, Cancel, Menu, Enter, 4 x Cursor LCD-Graphics Display Width x Height in mm 60 x 40 Text lines/characters 4 / ca. 20 9. Interfaces Parallel Centronics bi-direktional acc. IEEE 1284 Serial RS 232 C 1200 up to 230400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection ■ Tetterner lor/100 Base T, LPD, RawlP-Printing, DHCP, HTTP, FTP, SMMP, NTP RS 422, RS 485 1200 up to 230400 Baud/8 Bit □ Peripherical connection ■ Tetterner lor/100 Base T, LPD, RawlP-Printing, DHCP, HTTP, FTP, SMMP, SMPP, NTP RS 422, RS 485 1200 up to 230400 Baud/8 Bit □ USB Master for keyboard and Scanner 2x ■	1. Printhead	N	ИАСН4
Print resolution dpi Print speed up to mm/s Print width up to mm Print Pri	Printing method Transfer		
Print speed up to mm/s Print width up to mm 2. Labels Material: labels, continuous mat. on rolls or leporello Thermal- a. Standard paper, Cardboard, Textil, plastic foils PE, PP, PVC, PA, PI Material thickness mm / Weight g/m² 0.07 - 0.35 / 60 - 250 Media roll: Total diameter up to mm Core diameter mm 38 - 100 Winding direction inside or outside Material width mm with a thickness 0.07 - 0.35 mm 25 - 120 with a thickness 0.07 - 0.35 mm 10 - 120 Label width mm dispensing¹ min. mm 25 Label height when dispensing¹ min. mm 12 Label height when dispensing¹ min. mm 12 Label height max. mm 2.000 3. Ribbon Ink inside or outside Roll diameter up to mm 72 Core diameter mm 255 Ribbon length variable up to m 360 Width up to mm 114 5. Dimension printer Height x Depth x Width mm 290 x 425 x 240 Weight kg 6 6. Label sensor See through for start of label and end of material middle fixed, optional 8 mm adjusted Reflex sensor from below for label start, printed marks, cut outs, adjustable from the middle 56 mm 7. Elektronics Processor high speed 32 Bit ColdFire/speed MHz 266 RAM MB 64 ROM MB Flash Slot for CompactFlash card Type I up to 1 GB Slot for Cardbus / PC-Card Type II Real-time clock, Printout of date and time 8. Operation panel Digits/LEDS iluminated while operation Pause, Feed, Cancel, Menu, Enter, 4 x Cursor LCD-Graphics Display Width x Height in mm 60 x 40 Text lines/characters 4 / ca. 20 9. Interfaces Parallel Centronics bi-direktional acc. IEEE 1284 Serial RS 232 C 1200 up to 230400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection 11 Ethernet 10/100 Base T, LPD, RawlP-Printing, DHCP, HTTP, FTP, SMTP, SMMP, NTP RS 422, RS 485 1200 up to 230400 Baud/8 Bit 1 Peripherical connection 11 USB Master for keyboard and Scanner 2x 11 USB Master for keyboard and Scanner 2x 11 USB Master for keyboard and Scanner 2x 11	thermal direct		
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10. Settings	
	Country specific (Arabisch, CZ, D, DK, E, F, GB/USA, H, I, IL, N, NL, P, PL, RUS, S, SF, TR), Geräteeinstellungen, Druckparameter, Schnittstellen, Sicherheit.
11. Monitoring	
Stop printing if	End of ribbon End of labels Printhead open
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.
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, KOI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic caracters are supported. Optional chinese (simplified chinese)
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⁾Depending on label size, material and adhesive limitations are possible. Critical material or applications have to be testet and cleared.

15. Codes		
Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C HIBC Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM	Ident- and lead code of german Post AG JAN 8, 13 MSI Plessey Postnet
2D-Codes	Aztec, Codablock F, Micro PDF 417, UPS RSS 14	
	All codes variable in and ratio. Orientation Optionally with check racters and Start/Stoon code type.	n 0°, 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	98, ME, 2000, 2003, XP	
	Windows NT from version 4.0	
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. 250 W	
Operation termperat.	10 - 35°C	
Humidity	30 - 85%	
not condensing		
Safety regulations	CE, FCC class A, CB, CCC	

Accessories 7

1. Memory card



Label formats, fonts, texts and graphics can be saved. It can be acces-sed from the printer or from the PC.

Memory card	
CompactFlash Type I	256 MB

2. Numerical keyboard



For the input of numeric data in stand-alone-mode.

Numerical keyboard			
Connection	USB		
No. of keys 19			
L x W mm 120 x 76			

3. Compact keyboard



For direct input of variable data in stand-alone-mode.

Compact keyboard			
Connection	USB		
No. of keys	86		
L x W mm 282 x 132			

4. Label un-winder



For a quick supersedure of labels they can be provided in additional un-winders.

5. External re-winder



External re-winder Roll Ø max. mm	ER4 210
Material width up to mm	120
Winding speed up to mm/s	300
Power supply	100 - 240 V~ 50/60 Hz
Core Ø mm	40 -with or without cardboard c.
Adapter mm	76 - re-winding with cardboard c.
Winding of labels	inside or outside
Adapter plate	MACH4 - ER4

6. Ribbon holder



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

Optimal output through optimal input

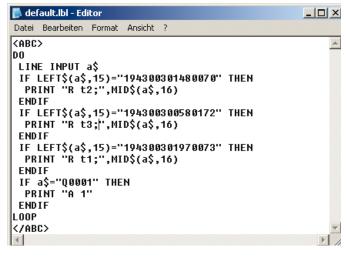
Printer Control

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 Barcode EAN 13, size SC 2 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)

cab J-Script allows easy programming of the printer by using text strings and this independently from the used label software. Labels can be designed and the status of the printer can be en-quired. The memory card allows to save complex layouts, graphics and fonts, which reduces the data transmission time.

abc - Basic Compiler



The cab Basic Compiler is always one step ahead. With an easy basic programming data is operated or logically combined before they are sent to the printer for further processing. This offers e.g. the possibility to emulate other printers or to integrate data strings from barcode readers or scales in printing processes. All data received is printed in real time.

Database Connector

The cab database connector allows to link up stand-alone printers via TCP/IP interface to central SQL databases in the network. Data can be requested, printed and written back during the printing process.

Monitoring

cab printer monitoring with Intra and Internet



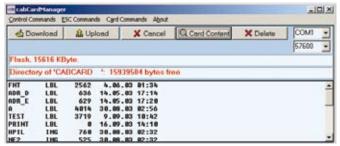
cab printers provide to be monitored and configured with standard web browsers or FTP clients. Firmware updates or data management on the memory card are easy to handle. By the use of SNMP- and SMTP clients, status, warning and error messages are sent via email or SNMP telegram to the network.

Administration

cab-Network Manager

The cab network administration enables the administrator to manage all printers connected to one network at the same time. With a single mouse click different printers can be monitored, configured or updated with firmware; furthermore PIN codes of the printers are changed and data on the memory card can be managed.

cab-Card Manager



Via RS 232 port the memory card can be administrated fast and easly. Label layouts, special text fonts, complex graphics or databases can be up- or downloaded.

cablabel software for cab printers



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 po-sitioned and arranged. Additional true type fonts can be downloaded to the memory card.

Most of the country specific codepages are supported.

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 Windows 98, ME, 2000, XP, 2003 and NT 4.0

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.

The software to create labels

Powerful functions enable the creation and printing of even complex labels within minutes.

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.

Further label Software

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

cablabel R2	l ita	Pro
32-Bit Platform compatibility		
Languages European Version:	_	
Arabisch, CZ, D, DK, E, F, FIN,		
GB/USA, H, I, IL,N, NL, P, PL,		
RUS, S, TR		
Languages Asian Version:		
Chinesisch, EST, J, LV, ROK		
Label samples		
Online documentationwith		
tutorials Multi-level Undo		
number of levels	1	40
Graphic format import		40
Color support	ī	ī
Color graphic reduction		
Text art		
True Type font		
Graphic barcodes		
numbers	9	37
Native printer barcodes Hidden (not printable)		
objects		_
Label preview		
Graphics preview		
Grid view/print		
OLE-Client		
Windows driver support		
Control of printers	1	99
Support of net printer (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		
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		
Extras UCC/EAN 128 and Maxicode		
Assistent		_
. 100.000110		

	Transfer p	rintar
	Part No.	Description
	i dit itoi	•
	5540802	Transfer printer MACH4/200
	5540803	Transfer printer MACH4/300
Con 100	5540812	Transfer printer MACH4/200P
	5540813	Transfer printer MACH4/300P
	5540816	Transfer printer MACH4/600P
	5540822	Transfer printer MACH4/200C
	5540823	Transfer printer MACH4/300C
	5540826	Transfer printer MACH4/600C
(((RFID))	55408xx.10	02 Transfer printer MACH4/XXXX with RFID read-write unit 13,56 MHz
	Content of	f delivery: Label printer, power
	supply, ope	eration manual, Windows driver, 2 Lite, Service manual on CD-ROM
	Spare par	ts
-May	5540882	
. 7	5540883	
	5540884	Print head 4/600
	5540862	Driver roller DR4
	Interfaces	5
cob	5561041	WLAN card 802.11 b/g
	5954200	Parallel Centronics
	5954201	Serial RS422/RS485
200		
0000	5551279	
	5551280	Coax-Converter
1	5954191	Label selection box
0	5550818	Connecting cable RS232 C 9/9-pole, length 3 m



5580220

5580221

Label software cablabel R2 Lite

Label software cablabel R2 Pro





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