cab
product marking

Hermes +

cab

Print and Apply
Hermes+

Edition 7.1

Leadership in innovation since 1975

Since 1975 cab has been setting new technological benchmarks in developing and manufacturing devices and systems for product labelling. Customers from the manufacturing and service industries and trade all benefit directly from our expertise as the innovation leader in the market.
Sophisticated customer demands, customer specific solutions and growth with our partners shape tomorrow´s products.

Development and manufacturing with maximum vertical integration – made in Germany

In order to strengthen and to enlarge our technological leading position we develop and manufacture – according to ISO 9001 – in Germany. As we manufacture the majority of mechanics ourselves with state-of-the-art manufacturing equipment we ensure our high quality standard and, at the same time, remain flexible.

The people – our capital

As an independent family-run enterprise we encourage an innovative atmosphere together with an up-to-date corporate culture for our 250 employees in Germany and our seven cab subsidiaries all over the world. 350 professional and highly skilled distribution partners in more than 80 countries ensure our worldwide appearance.

Acting on our commitment to sustainability and ecological awareness – partner of ENERGY STAR for 11 years

In terms of their energy efficiency our products are optimized. The significance of our commitment to sustainability and ecological awareness is reflected in the distinction of our entire product range with the ENERGY STAR-seal. In addition to the positive effects on the electricity costs the reduced standby-mode saves – totalized for the entire product range- one tonne CO_2 / day.

**Innovative technology for a better climate protection.
Energy-saving.
Environmentally conscious.**

*With an average CO_2 – emission of 550g/kWh in Germany 2007, source: E.ON

Perfection to the detail

1 Big graphic display

White backlight guarantees darity of display.
Depending on the fitting position the display can be turned in steps of 90°.

2 Navigator pad

Simple, interactive menue control. Applicable functions are illuminated. Menue handling is easy to comprehend.

3 Ribbon retainer

The threepart tightening axles allow a fast and easy ribbon exchange.

4 Solid, buckling resistant metal chassis

It is made of dye-cast aluminium.
All devices are assembled to it.

5 Mounting of the applicator

The applicator is mounted on hinges and can be exchanged easily.

6 Printing offset

After exchanging the label roll the printing position is set up automatically after a few printed labels. The label position is stored, even if the machine is turned off.

7 Printhead

The printhead can be exchanged easily. Adjustments and setups are not necessary.

8 Ribbon saver

It is used for labels which are to be only partially printed. The printhead is lifted off in the plain area and the ribbon is stopped during label feed.

9 Transport system

The ball bearing transport rollers ensure a highly accurate printing and the precise feeding of labels.

10 Label unwinder

The swing lever and the integrated brake make sure that the labels are unwound with constant tension.

11 Rewinder

The liner of a label roll is rewound after the labels have been peeled off. The clamping shafts enable an easy exchange of the roll.

All required interfaces
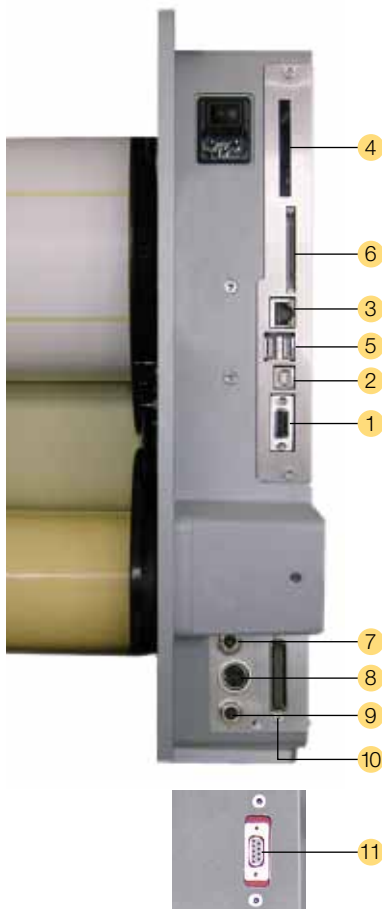
1. RS232C interface
2. USB 2.0 Slave interface
3. Ethernet 10/100 Base T-interface with TCP/IP
4. Slot for Wireless LAN-card
5. Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or Service Key
6. Slot for memory card CompactFlash Type I
7. Central cut-in valve
8. Warning light
9. Emergency stop
10. I/O interface
11. cab applicator connection (in the front)

Options

Interface Centronics bi-directional acc. IEEE 1284.
Interface RS422/RS485 1.200 up to 230.400 Baud/8 Bit.
The interfaces are connected to the PC.
Connection to the printer via mini USB-connection cable.

Label selection box-I/O-box. Via SPS up to 16 different labels can be loaded from a memory card.
Operation of four in-/outputs via Basic Interpreter.

cab WLAN card 802.11 b/g.

Stand-alone operation
Printing with a cab printer without PC.

The layout of the labels is created either with the label software or direct programming via text editor directly on the PC. Label formats, fonts and graphic data, serial data and data base contents are saved or imported on the CF memory card or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data of a barcode scanner or a scale can be fed additionally.

Accessories for the stand-alone operation

Memory card
CompactFlash Type I

Compact keyboard
Connection: USB
Number of keys: 86
L x W mm: 282 x 132, Cherry Classic Line G84-4100 LCM

Standard keyboard
Connection: USB
Number of keys: 115
L x W mm: 460 x 192, Cherry G83-6504 LAD

The functions of the devices and conformity to CE-standards are only warranted by using the accessories made by cab or recommended by cab.

1. Printhead	Hermes⁺4L		
Print method	Thermal transfer/Thermal direct		
Print resolution dpi	203	300	600
Print speed up to mm/s	250	250	100
Print width up to mm	104	105,6	105,6
2. Material			
Labels on rolls	Papers, Synthetics like PET, PE, PP, PVC, PU, Acrylat, Pl		
Material thickness mm / weight g/m²	0,055 - 0,35 / 60 - 160		
Label width[1] mm	20 - 116		
Width of liner	25 - 118		
Label height[1] when dispensing mm	25 - 250		
Media roll: Total diameter up to mm	205 / 305		
Core diameter mm	76		
Winding direction	outside or inside		
3. Ribbon			
Ink	outside or inside		
Roll diamter up to mm	80		
Core diameter mm	25		
Ribbon length variable up to m	500		
Width mm	25 - 114		
Ribbbon saver	☐		
4. Internal rewinder			
Total diamter up to mm	155		
Core diameter mm	76		
5. Dimensions of the printer			
When media roll total diameter mm	205	305	
Height x Depth x Width mm	400 x 400 x 255	538 x 518 x 255	
Weight kg	16	17	
6. Label sensor			
See-through sensor	for leading edge of the label or punching marks and end of material		
Reflective sensor from the botton / from the top	for printing marks		
Distance to locating edge mm	2 - 47		
7. Electronics			
Processor high speed 32 Bit ColdFire/Taktrate MHz	266		
(RAM) MB	64		
Memory IFFS MB Flash	8		
Slot for CompactFlash-card Type I	■		
Slot for für Wireless LAN-card	■		
Battery cache for	Real-time clock, printout of time and date Storage of data with shut-down		
Warning signal	Acoustic signal when error		
8. Interfaces			
Centronics bi-directional acc. IEEE 1284	☐		
RS232 C 1.200 up to 230.400 Baud/8 Bit	■		
USB 2.0 High Speed Slave for PC-connection	■		
Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■		
RS422, RS485 1.200 up to 230.400 Baud/8 Bit	☐		
WLAN card 802.11b/g WEP/WPA PSK (TKIP)	☐		
2 x USB Master for	external operation panel, keyboard, scanner, service key		
Connection for warning light	■		
Digital I/O interface	■		
cab applicator connection	■		
Connection for external emergency stop	■		
Connection for compressed air	■		
9. Operation data			
Power supply	100 - 240 V ~ 50/60 Hz, PFC		
Power consumption	max. 300 W		
Temperature / Humidity	5 - 40°C / 20 - 85% not condensing		
Approvals	CE, FCC class A, CB, CCC, UL		

[1] The label size is additionally defined through the type of the applicator.
Depending on label size, material and adhesive limitations are possible. Critical material or applications have to be testet and cleared.

10. Operation panel

Tasten / LED-Anzeigen	Pause, Feed, Cancel, Menue, Enter, 4 x Cursor
LCD graphic display	Text 4 lines, ca. 20 digits per line
Width x Heigh mm	60 x 40

11. Settings

	digital or analog clock	time
	system settings	date
	print parameters	interfaces
	25 language settings	security

12. Monitoring

Warning if:	Run out of ribbon	■
	Run out of labels	■
Stop printing if:	End of ribbon	■
	End of labels	■
	Printhead open	■
On the display:	Data reception	Clock
	WLAN field intensity	Date sheet
	Ethernet state	abc Debug
	Used memory	Input buffer
	Temperat. printhead	Remaining of ribbon
	Access to memory card	

13. Test routines

System diagnosis	When switched on with testing of printhead
Short Status, Status print	font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state
Status reports	Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.

14. 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) Optional Thai
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, K0l8-R. All West and East European latin, cyrillic, greek, hebrew and arabic caracters are supported. Optional Thai and 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

15. Graphics

Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

16. Codes

Linear Barcodes	Code 39, Code 93	Interleaved 2/5
	Code 39 Full ASCII	Ident- and leader
	Code 128 A, B, C	code of Deut-
	Codabar	sche Post AG
	EAN 8, 13	JAN 8, 13
	EAN/UCC 128	MSI
	EAN/UPC Appendix 2	Plessey
	EAN/UPC Appendix 5	Postnet
	FIM	RSS 14
	HIBC	UPC A, E, E0
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar	

All codes variable in height, module width and ratio.
Orientation 0°, 90°, 180°, 270°.
Optionally with check digit, printed characters and Start/Stop code depending on code type.

17. Software

Programming	J-Script direct programming	■
	abc-Basic Compiler	■
	Database Connector	☐
System diagnosis/ Administration	printer monitoring	■
	Network Manager	☐
cab Label software	cablabel R2 Lite	■
	cablabel R2 Pro	☐
	Easylabel, Codesoft	☐
Additional Label software	Nicelabel, Bartender Label Matrix, Labelview	○
Windows driver	32/64 bit for Windows 2000 Windows 7 XP Server 2003 Vista Server 2008	■
Stand-alone operation		■

Standard ■
Option ☐
Authorised distribution by resellers ○

Please recall current data from www.cab.de

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

Cover
Protection from pollution and for safety during labelling.

Base plate
Solid stands are mounted to the chassis for standing applications.

Warning light
Indicates the printer's status and is installed directly on the printer, the mounting bracket or stand.

External operation panel
Connection USB, Keys: Menue, Pause, Feed, Cancel, 4 x Cursor, graphic display 120 x 32 dots, Slot for CF-card Typ I

Present trigger
In semi-automatic operation the present trigger is used to start a complete print and apply cycle.

Foot switch
In semi-automatic operation the printing and applying of a label is started by actuating the foot switch.

Photo cell
To start the print and apply operation by identifying the product on a conveyor belt.

Sub-D plug
For easy connection the sub-D plug is equipped with a screwed clamp.

The operation and the compliance with CE-standards is only warranted by using cab-made materials or materials recommended by cab.

1 **Compressed Air Supply Unit**

Assembled to the printer, frame or stand. The micro filter avoids contamination, the pressure regulator ensures the print and apply quality.

2 **Long operating life**

All guides have ball bearings and are therefore resistant to wear.

3 **Variable product heights**

The lift cylinder allows labelling in different heights. It is standard available in 200/300/400 mm length. More lengths on request.

4 **High process reliability**

The supporting air jet streaming and the induction air as well as the lifting speed are adjustable and controlled via sensors.

5 **Real time application**

Applicators for small and big labels permit the application of labels with a height of 25 - 250 mm and a width of 20 - 116 mm.

6 **Protective cover** (not shown)

Used in the semi-automatic operation mode
Standard size 1 for labels W x H up to 70 x 80 mm
            2 for labels W x H up to 116 x 80 mm
Further sizes on request.

7 **Retractable applicator**

Easy and fast access to the printers 'mechanics for material change or for maintenance work.
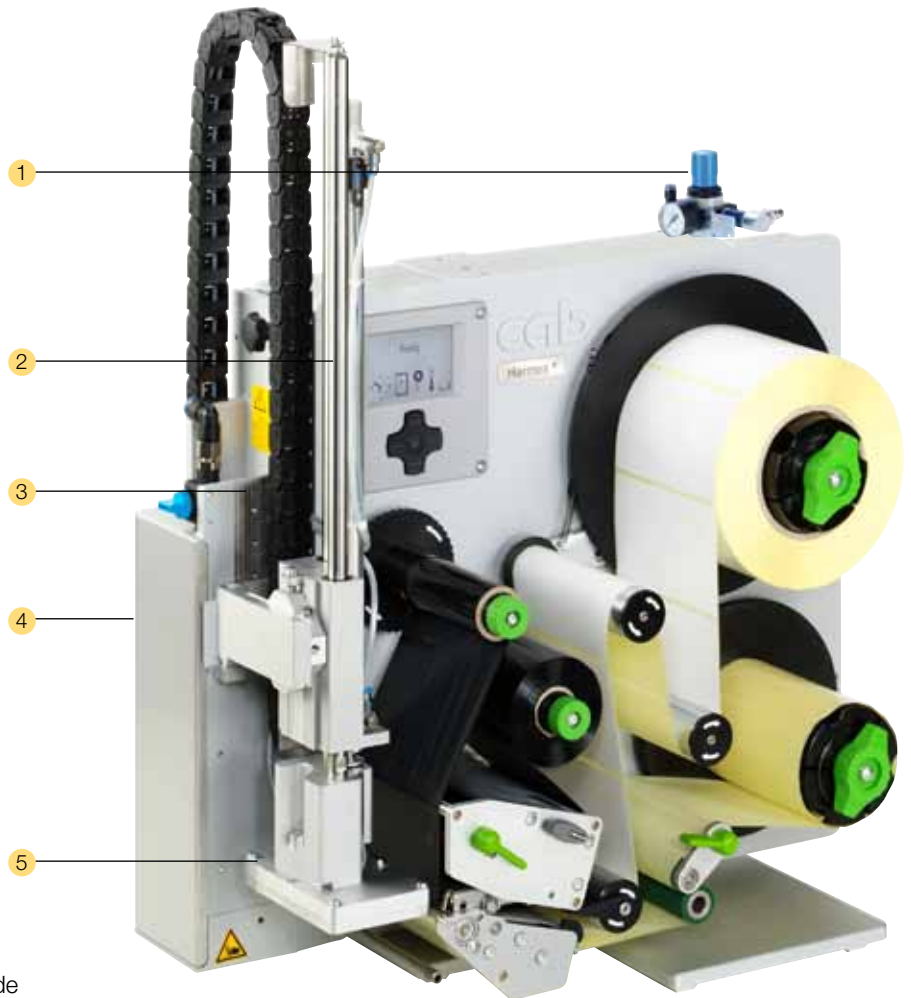
Label transfer		Tamp	Roll-on	Blow
Label width	mm	20 - 116	25 - 116	25 - 116
Label height	mm	25 - 200	80 - 250	25 - 100
Cylinder stroke	mm	200 / 300 / 400		
Tamp stroke below the device	mm	136 / 236 / 336	136 / 236 / 336	120 / 220 / 320
Compressed air bar		4 - 4,5		
Product surface		flat		
Product height variable		■	■	–
fixed		–	–	■
Product in rest		■	–	■
in motion		–	■	■

The Hermes stand

The Hermes stand enables the
user to operate the printer fast
and flexible in any production
line. The labelling position is
adjustable to the product in height
and width with just a few turns.
Four guide rollers on the chassis
ensure mobility.
On site, the stand is adjustable
by foot-rests.
Maximum labelling height is
about 1400 mm.

**Bracket and clamp joint
mounted to the stand**

**Bracket and flange joint
mounted to the stand**

Print and Apply System hanging

Bracket
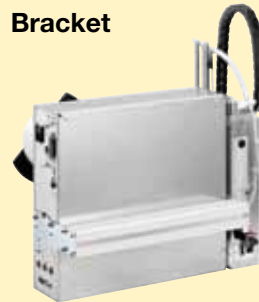
Profile dim.: 50 x 50 mm
Supplier: Rose+Krieger
Article-no.: 4.08.5000

The bracket enables the mounting of the printer in a
hanging position.

Clamped joint
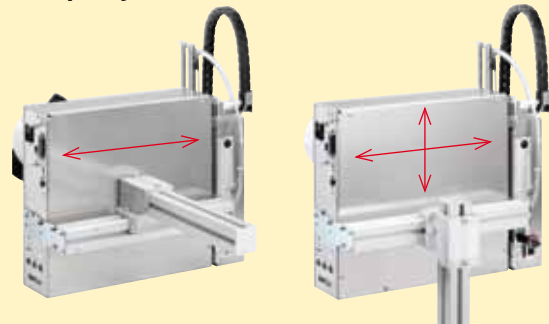
The clamped joint permits the mounting of the printer
vertically, horizontally and rotated by 90°. By moving the
profiles in the universal joint the label is positioned onto
the product.

Flanged joint
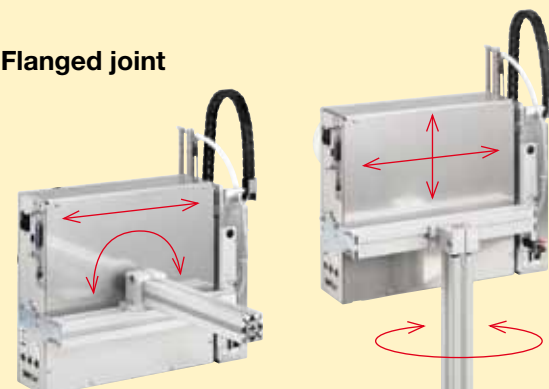
The flanged joint permits the rototation of the printer
around the extruding axis and compensates angular
tolerances.

```
J                               Job Start
H 100                           Speed (100 mm/s)
O R                             Orientation rotated by 180°
S l1;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
A 1                             Number of labels (in this example 1)
```

Direct programming with J-Script

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.

SAP® Printer Vendor Program

Create labels with software → Transfer replace file into SAP-Script → Exchange of variable data with SAPScript and printout

Upload-Method SAP R/3 note no. 137431
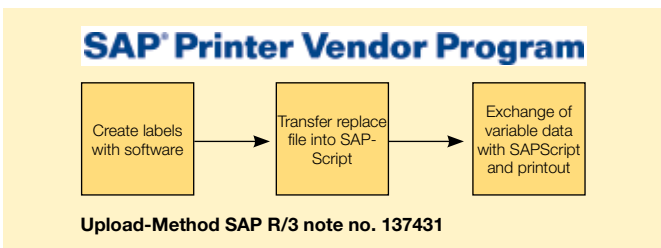
Integration into SAP R/3

In collaboration with SAP cab developed the so-called "Replace method" in order to control the cab printers with SAPScript from SAP/R3.
As Silver Level-partner in SAP's Printer Vendor Program cab has access to the SAP development area for optimal printer support in an SAP environment.

SAP and R/3 are registered trademarks of SAP AG.

```
DEFAULT.LBL - Editor
Datei  Bearbeiten  Format  Ansicht  ?

<ABC>
DO
 LINE INPUT a$
 IF LEFT$(a$,15)="194300301480070" THEN
  PRINT "R t2;",MID$(a$,16)
 ENDIF
 IF LEFT$(a$,15)="194300300580172" THEN
  PRINT "R t3;",MID$(a$,16)
 ENDIF
 IF LEFT$(a$,15)="194300301970073" THEN
  PRINT "R t1;",MID$(a$,16)
 ENDIF
LOOP
</ABC>
```

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 or a scale, can be transferred to be printed on different label sizes.

Example of use:
Connection to a scale
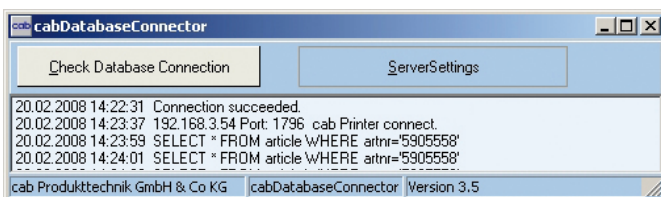
Database Connector

In the stand-alone mode with additional network connection 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 with the printing process.

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. Synchronization of time and date with a time server.

Administration 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, datasynchronization and PIN-administration centrally.

Windows® driver

Our drivers are officially certified by Microsoft and ensure the direct creation and printing of labels from Windows-based programs like Word, Excel, Access, Works, Corel Draw etc.

Microsoft® is a registered trademark of Microsoft Corporation.
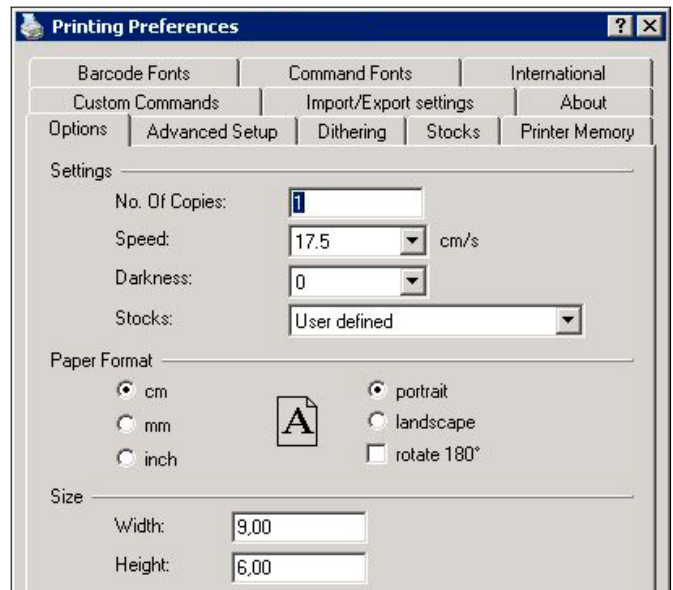
Label software

The ideal design of a label is realizable by using different fonts, heights, widths and arrangements. cab offers a large number of internal bitmap and vector fonts. Most of the country-specific codepages are supported, which means that country-specific special characters can be printed – in 25 languages.

● cablabel R2 Lite

Extensive standard label software. You get it - free of charge - included in delivery.

● cablabel R2 Pro

Maximum flexibility – whether simple texts, barcodes, graphics or the connection of databases. A wizard supports the creation of a UCC/EAN 128 barcode. It helps to open and handle several labels at the same time. Objects can be copied, moved and inserted into another label. It provides its own internal printer drivers which can communicate with the printer functions individually via J-Script.

Additional label software

Optimum variability – the label printers and the print & apply systems from cab can be easily controlled with other merchantable software like Codesoft, Easylabel, Bartender, NiceLabel or Labelview.

cablabel R2	Lite	Pro
Windows 2000 SP4, XP Prof. SP2, Server 2003 SP2, Vista / 32 bit	■	■
Languages	25	19
Label samples	■	■
Undo-function	■	■
Import of graphics	■	■
Graphic barcodes	9	37
Native printer barcodes	■	■
Support Windows driver		■
Number of printers	1	99
Database Manager (Access, DBF, ASCII, OLEDB, ODBC)		■
cab Database Connector		■
Stand-alone operation	■	■
Support printer real-time clock	■	■
Internal printer counter	■	■
Text alignment		■
User input (formular)	■	■
Formula editor		■
UCC/EAN 128 and Maxicode wizard		■

Part No.	Hardware
5955504	Label printer Hermes+ 4L/200-2
5955505	Label printer Hermes+ 4L/300-2
5955506	Label printer Hermes+ 4L/600-2
5955511	Label printer Hermes+ 4L/200-3
5955512	Label printer Hermes+ 4L/300-3
595xxxx.202	Label printer Hermes+ with automatic ribbon saver

Content of delivery Hardware

Label printer,
Power cable Type E+F, length 1,8 m
Connecting cables USB, length 1,8 m

Content of delivery CD-ROM

Operating manual in de/en/fr,
Configuration manual de/en/fr
Service manual de/en, in the making
Spare part list de/en, in the making

Programming manual en,
Windows printer driver 32/64 bit in 19 languages
Windows 2000   Windows 7
XP   Server 2003
Vista   Server 2008
Database Connector en
cablabel R2 lite in 25 languages,

Part No.	Spare parts
5954081.001	Printhead 4/203
5954072.001	Printhead 4/300
5954077.001	Printhead 4/600
5954180.001	Print roll DR4
5955638.001	Traction roller ZR4

Part No.	Accessories
5961070	Cover L
5955642	Base plate
5537747.001	Warning light
5954380.001	External operation panel
5901630	Compact keyboard USB, Cherry Classic Line G84-4100 LCM
5901626	Standard keyboard USB Cherry G83-6504 LAD
5561043	Memory card CompactFlash Typ I

Part No.	Applicators with accessories
5964139	Applicator 1000L-200
5964075	Applicator 1000L-300
5964140	Applicator 1000L-400
5949072	Universal tamp pad A1021 70 x 60
5949075	Universal tamp pad A1021 90 x 90
59xxxxx	Tamp pad A1021 B x H
5949076	Universal tamp pad A1321 116 x 102
5949077	Universal tamp pad A1321 116 x 152
59xxxxx	Tamp pad A1321 B x H
59xxxxx	Blow pad A2021 B x H
59xxxxx	Roll-on pad A1411 B x H
5955735	Air pressure regulator L for applicator Hermes+
5955737	Air pressure regulator L for applicator Hermes+ with additional cut-in valve
5955710	Present trigger TR1
5955711	Foot switch applicator SPS
5955712	Product sensor SPS
5917651	Interface connector SUB-D-plug 25 pole Phoenix Contact No. 2761622
5964116	Cover tamp pad 1L
5964117	Cover tamp pad 2L

Part No.	Assembling aids
5955685	Bracket profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
5905824	Joint KV 50
8914443	Clamped joint profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
8914444	Flange clamp profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
5947400	Stand 1600
5955713	Testbox 3 automatic operation

Part No.	Interfaces
5954200 **5954201**	Centronics interface RS422/RS485 interface
5954191	Label selection - I/O-Box
5561041	WLAN-card 802.11 b/g

Part No.	Connecting cable
5550818	Cable RS232 C 9/9-pin, length 3 m
5918008	Patch cable KAT 5e, 3 m grey

Part No.	Software
DL 40100	Database Connector Licence
5580215	Administration Network Manager
5580221 on request	Label software cablabel R2 Pro Easylabel, Codesoft
9008486	Programming manual English, printed copy

The cab delivery program

cab product marking

Label printer A⁺-series

Label printer XD4

Label printer MACH4

Label printer e4

Print and Apply Hermes

Print module PX-series

Label dispenser HS150
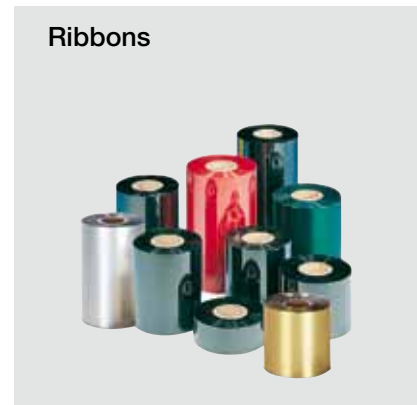
Labels

Ribbons

Label software

Laser marking systems FL-series

Laser safety housing

cab

® product marking

cab is represented in every active commercial centre - worldwide.

Four your efficient process: you can count on us in your day-to-day operations.

Welcome to our website – www.cab.de

Customer proximity worldwide with perfect service and short reaction time.

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