

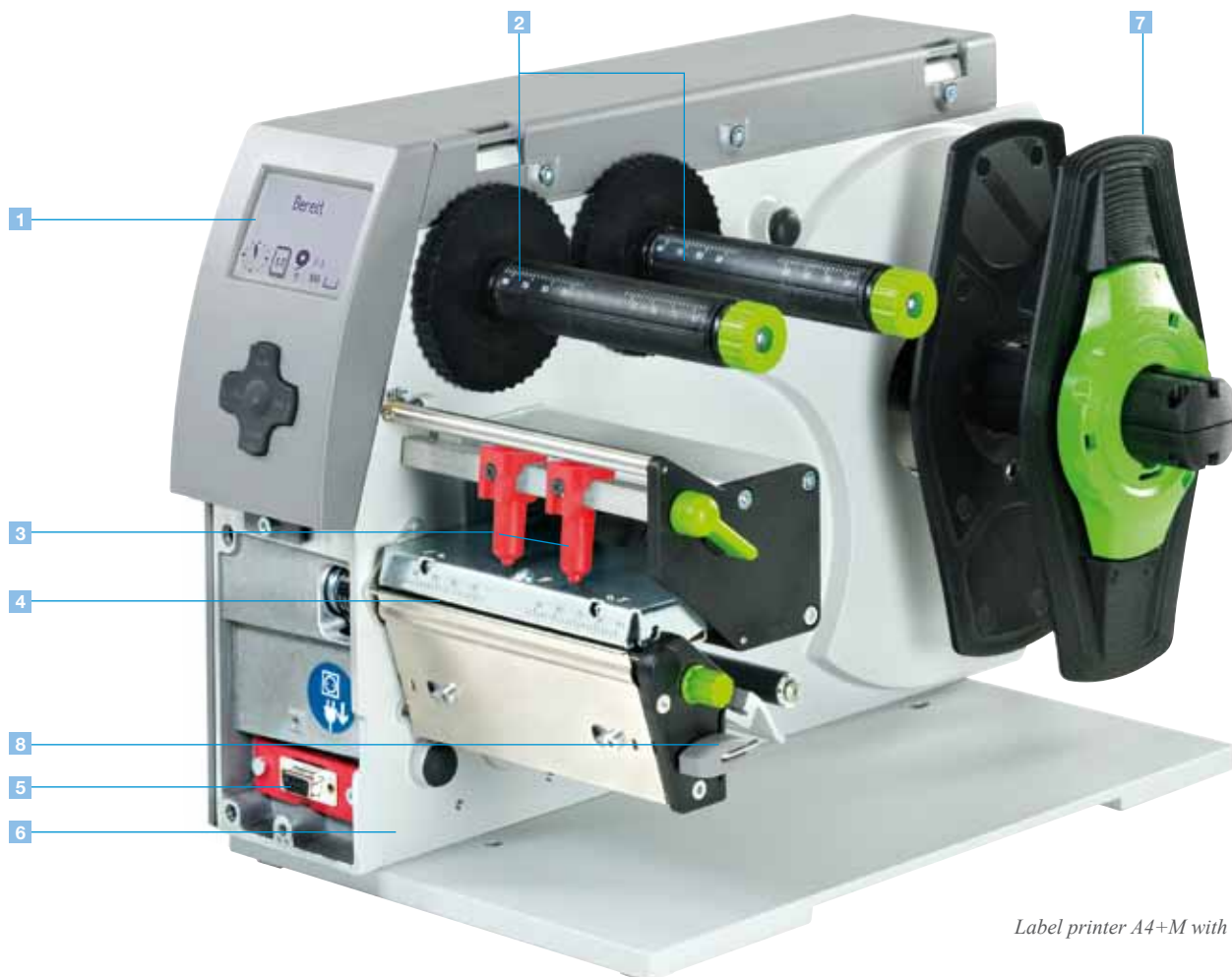


a4+M Label Printer With Centered Material Guide.

Made in Germany.

Technical details.

- › No adjustment of the print head for different widths of material.
- › Printing on very narrow or very thick continuous materials.
- › The gap height at the material sensor for flat tubes and synthetic tapes is up to 4 mm.
- › The print speed for difficult printable materials is reduced to 30 – 125 mm/sec.
- › Operation and software are compatible with the A+ series.



Label printer A4+M with centred material guide

1 Big graphic display

White backlight for optimum readability.

2 Ribbon holder

Three-part tightening axles enable quick and easy ribbon exchange.

3 Straightforward adjustment

The printhead is pressed down with two sliding toggles. One is mounted to the left label margin, the other one is pushed to the right label margin.

4 Peel-off option

The label is removed from its liner via a peel-off plate. A high printing and dispensing accuracy can be achieved with the additionally powered rewind assist roller and the pinch roller.

5 Peripheral connection

Add-on modules such as cutters, external rewinders, present sensors and applicators are easy to connect via the USB peripheral interface. All peripherals are connected to the printer in seconds using two pins and fixed in place with a screw.

6 Solid metal housing

Made of die-cast aluminum.
All components are mounted on it.

7 Roll holder

Available for core diameters from 38 mm. (We provide adapters for core diameters wider than 76 mm for improved label winding). The spring-mounted margin stop

ensures constant tension during feeding, thus ensuring a highly precise imprint.

8 Internal rewinder

The three-part tightening axles ensure the easy rewinding and removing of labels or liners with or without paper core.

9 Only one tool for all maintenance tasks




For exchanging wear parts and connecting peripherals, the Allen key is located ready to hand at the printer.



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 for connecting an external operation panel, keyboard, scanner or service key.
- 6 Slot for CompactFlash Type I memory card.

Options

-  > Centronics bi-directional interface acc. to IEEE 1284.
RS422/RS485 interface 1,200 up to 230,400 Baud/8 Bit.
The interfaces are plugged into the PC.
Connection to the printer via mini USB connection cable.
-  > Label selection – I/O box.
Up to 16 different labels can be loaded via PLC from a memory card. Operation of four inputs/outputs via Basic Interpreter.
-  > cab WLAN card 802.11 b/g.



Stand-alone operation.

Printing with a cab printer without a PC.

The layout of the labels is created either using label software or through direct programming via a text editor on the PC. Label formats, fonts and graphic data, serial data and database contents are saved or imported on the CF memory card, USB flash drive or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data from a barcode scanner or a balance can also be received by the printer.

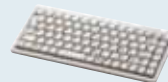


Accessories for stand-alone operation



Memory card

CompactFlash Type I



Compact keyboard

Connection: USB, number of keys: 86
L x W mm: 282 x 132
Cherry G84-4100

Device functionality and compliance with CE standards are only warranted by using the accessories provided or recommended by cab.

Software tools.

Direct programming with J-Script

The printer language is easy to understand and simple to integrate into your host system. Variable data is linked with host applications. Label design, graphic data and fonts are recorded on the CompactFlash card. The host computer sends only variable data to the printer.

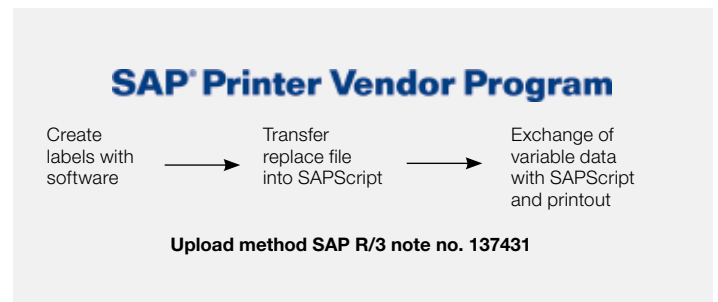
```
J
H 100
O R
S I1;0,0,68,70,100
T 10, 10,0,5,pt20;sample
B 10,20,0,EAN-13,SC2,401234512345
G 8,3.5;0;R:30,9,0,3;0:3
A 1
```

Job start
Speed (100 mm/s)
Orientation rotated by 180°
Size of label (100x68 mm, gap 2 mm)
Text object/font: Swiss bold, 20 pt
Barcode EAN 13, size SC 2
Graphic, box 30 x 9 mm,
Line strength 0.3 mm
Number of labels (in this example 1)

Integration into SAP R/3*

In cooperation with SAP, cab developed the "replace method" for controlling cab printers quickly and easily from SAP R/3 using SAPScript. As a Silver Level partner in SAP's Printer Vendor Program, cab has access to the SAP development area for optimum printer support in SAP environments.

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



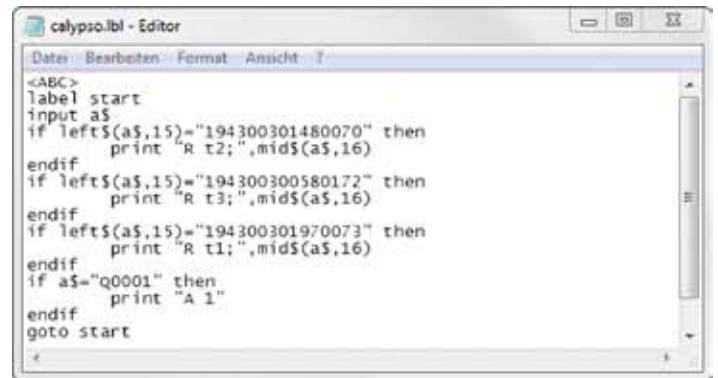
abc – Basic Compiler

As an integrated element of the firmware, the Basic Compiler enables the printer to process data via BASIC programming before it is sent for print editing. This makes it possible for external printer languages to be replaced or data from other systems, e.g. a PLC or balance, to be transferred so information can be printed in different label formats.



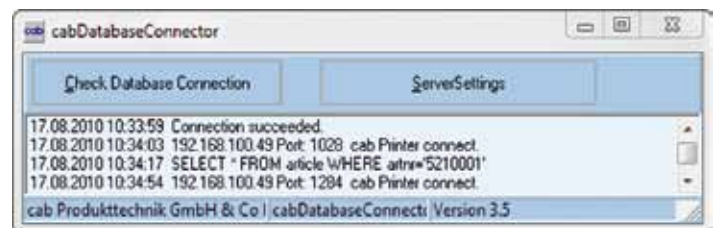
Example of use:

Connection to a balance



Database Connector

In stand-alone mode with additional network connection, the Database Connector enables stand-alone printers to access data directly from a central SQL-compatible database and to print it as a label. Data can also be written back to the database or changed during the printing process.



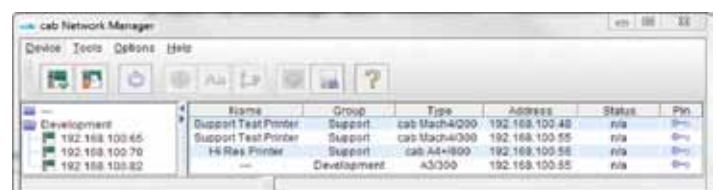
Printer monitoring with Intranet and Internet

Using standard programs such as the web browser or FTP clients, the integrated HTTP and FTP server enables print monitoring, configuration, firmware updates and memory card administration. Status, warning and error messages are sent to administrators or users as e-mails or SNMP datagrams via SNMP and SMTP clients. A time server is used to synchronize the time and date.



Administration Network Manager

The cab Network Manager enables the user to control multiple printers across a network simultaneously. It supports monitoring, configuration, firmware updates, memory card administration, file synchronization and PIN administration centrally.





WHQL-certified Windows printer driver for

Windows 2000 Windows Server 2003 Windows 7
 Windows XP Windows Server 2008
 Windows Vista Windows Server 2008 R2

Our printer drivers are officially certified and signed by Microsoft. They ensure optimum stability on your Windows operating system. The programs Word, Excel, Access, Corel Draw, etc. can be used to design and print labels.



Apple-Mac OS X® driver

Alternatively, cab offers a CUPS-based printer driver for Mac OS X.



Linux driver

Alternatively, cab offers a CUPS-based printer driver for Linux.

*Microsoft® is a registered trademark of Microsoft Corporation.
 Mac OS® is a registered trademark of Apple Computer, Inc*

Label software.

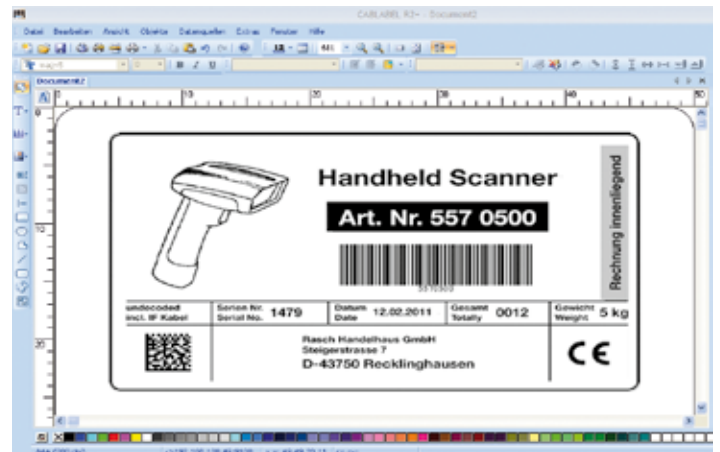
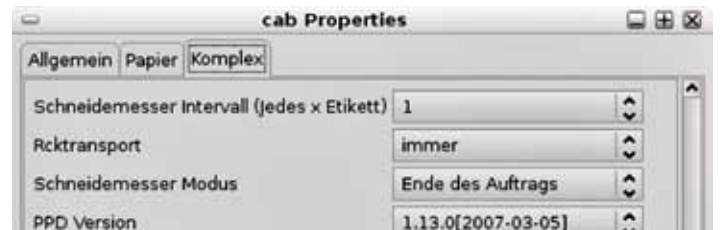
cablabel R2+

A powerful label software that is available free of charge and specially designed for cab printers and print & apply systems.

Different fonts, barcodes and graphics in variable heights, widths and printing directions can be used to produce the best possible label design.

In addition to the loadable TrueType fonts available with MS Windows, cab printers also offer a large number of internal bitmap and vector fonts. Thanks to the support of the most commonly used codepages, country-specific special characters can also be printed.

High-performance functions make it possible to design and print even complex labels in just a few minutes. cablabel R2+ supports special functions of the cab printers, such as real-time clock, printer counter, stand-alone operation without PC, circular fonts or the printout of the printer data stream in a file. The MDI technology makes it possible to open several labels at the same time and to move objects from one label to another.



cablabel R2+ is available in 24 different languages for the following operating systems:

- Windows XP Windows Server 2003*
- Windows Vista Windows Server 2008*
- Windows 7 * Terminalserver / Citrix are not supported.

Additional label software

Highest possible variability – other commercially available label software solutions, such as Codesoft, Nicelabel, Easylab, Bartender, Label Matrix or Labelview, support the cab label printers and labeling systems. More information is available on our website.

Technical data.

■ Standard □ Option

| Label printer | | A4+M | | |
|---------------------------|--|---|--------------------------------------|--|
| Printhead | Print method Thermal transfer | ■ | ■ | |
| | Thermal direct | ■ | – | |
| | Print resolution dpi | 300 | 600 | |
| | Print speed up to mm/s | 30, 40, 50, 75, 100, 125 | 30, 40, 50, 75, 100 | |
| | Print width mm | 105.6 | 105.6 | |
| Material | Labels, continuous rolls or fan-folded | Paper, cardboard, textiles, plastics such as PET, PE, PP, PVC, PU, acrylate, PI | | |
| | Thickness mm / weight g/m ² | 0.05 – 0.8 / 60 – 300 | | |
| | Label width ¹⁾ mm | 4 – 106 | | |
| | Width of liner or continuous material mm | 10 – 110 | | |
| | Heat shrink tube mm | 3.5 – 110 | | |
| | Label height ¹⁾ without back-feed from mm | 5 | 5 | |
| | up to mm | 4000 | 1000 | |
| | Media roll | Total diameter up to mm | 205 | |
| | | Core diameter mm | 38 – 100 | |
| Winding direction | | Outside or inside | | |
| Ribbon | Ink | Outside or inside | | |
| | Roll diameter up to mm | 80 | | |
| | Core diameter mm | 25 | | |
| | Ribbon length variable up to m | 500 | | |
| | Width ²⁾ up to mm | 50 – 114 | | |
| Printer dimensions | Height x Depth mm | 274 x 446 | | |
| | Width mm | 242 | | |
| | Weight kg | 9 | | |
| Label sensor | Gap sensor | For leading edge of the label or punching marks and end of material | | |
| | Reflective sensor from the bottom / from the top | For printing marks | | |
| | Distance to locating edge mm | 0 – 53 | | |
| Electronics | Processor high speed 32 Bit ColdFire / clock rate MHz | 266 | | |
| | RAM MB | 64 | | |
| | Memory IFFS MB Flash | 8 | | |
| | Slot for CompactFlash Type I memory card | ■ | | |
| | Slot for wireless LAN card | ■ | | |
| | Battery buffer for | Real-time clock, printout of time and date, data storage on shut-down | | |
| | Warning signal | Acoustic signal in case of error | | |
| Interfaces | Centronics bi-directional acc. to 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 | □ | | |
| | Peripheral connection | ■ | | |
| | WLAN card 802.11 b/g WEP / WPA PSK (TKIP) | □ | | |
| | 2x USB master for | External operation panel, keyboard, scanner, service key, USB flash drive | | |
| | Operation data | Power supply | 100 – 240 V ~ 50 / 60 Hz, PFC | |
| Power consumption | | Max. 300 W | | |
| Temperature / humidity: | | Operation | +5 – 40°C / 10 – 85% not condensing | |
| | | Storage | +0 – 60°C / 20 – 85% not condensing | |
| | | Transport | -25 – 60°C / 20 – 85% not condensing | |
| Approvals | CE, FCC class A, CB, CCC, UL | | | |

¹⁾ Limitations may apply to small labels, thin materials or strong adhesives. Critical materials or applications must be tested and approved.

²⁾ The ribbon should be roughly the same width as the label in order to avoid folding.



With innovative technology for better climate protection
Energy saving – Environmentally friendly

| Label printer | | A4+M | |
|------------------------|-----------------------------------|---|--|
| Operation panel | Buttons / LED display | Pause, Feed, Cancel, Menu, Enter, 4 x Cursor | |
| | LCD graphic display | Width 60 mm, height 40 mm, text 4 lines, ca. 20 characters per line | |
| Settings | | Time, date, digital or analog clock 25 language settings System settings, print parameters, interfaces, security | |
| Monitoring | Stop printing if: | End of ribbon End of labels Printhead open | |
| | On the display | Data reception Clock WLAN field intensity Date sheet Ethernet status abc Debug | Used memory Input buffer Temperature of printhead Remaining quantity of ribbon Access to memory card |
| Test routines | System diagnosis | When switched on, incl. printhead testing | |
| | Short status, status print | Font list, device list, WLAN status, label profile, test grid, monitor mode, PPP status | |
| | Status reports | Extensive status printout with information about settings, e.g. print length counter, runtime counter, etc. Request of machine status via software commands. Detailed status messages on the display, e.g. network error – no link, barcode error, etc. | |
| 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. Thai and Chinese (simplified Chinese) available as options. | |
| | Character sets | Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 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 characters are supported. Thai and Chinese available as options. | |
| | 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, gray, vertical, depending on character fonts | |
| | Font width | Variable | |
| Graphics | Graphic elements | Line, arrow, box, circle, ellipse, filled and filled with fading | |
| | Graphic formats | PCX, IMG, BMP, TIF, MAC, GIF, PNG | |
| Barcodes | Linear barcodes | Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC | Interleaved 2 / 5 Ident- and lead code of Deutsche Post AG Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 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. | |
| Software | Programming | J-Script direct programming abc – Basic Compiler Database Connector | ■ ■ □ |
| | System diagnosis / administration | Printer monitoring Network Manager | ■ □ |
| | Label software | cablabel R2+ Codesoft, NiceLabel, Easylabel Bartender, Label Matrix, Labelview | ■ ○□ ○ |
| | Windows driver certified | 32/64 bit for Windows 2000 Server 2003 Windows XP Server 2008 Windows Vista Server 2008 R2 Windows 7 | ■ |
| | Mac driver | OS X printer driver from version 10.4 | ■ |
| | Linux driver | Tested with Suse 9.0, CUPS-based | ■ |
| | Stand-alone operation | | ■ |

For current data, please go to www.cab.de

Accessories for basic devices.

Cutter

The cutter is used to cut paper, pressure sensitive labels, cardboard, textiles, synthetics or heat shrink tubes.

Perforation cutter and cutter

The perforation cutter also permits the perforation of the material in order to separate it manually.

Cutter tray

The cutter tray can pile up up to 50 labels.

Stacker with cutter

The printed materials are cut and piled up with the stacker. The print job stops when the height of the pile is reached. There might be restrictions at the use of stiff or curved materials. We recommend the testing of such materials at cab.



Adapter 100 mm Ø

To keep the bending of the material during piling as small as possible cab recommends a broad core diameter.



Storage table label width x height

The storage table and the protective cover are adjusted to the label size and have to be ordered separately.



Base frame A4+M

With the base frame the devices can be arranged on the table in any order.



| | Cutter CU4 | Perforation cutter and cutter PCU4 | Stacker with cutter ST4 / M |
|--|---|--|--|
| Material width up to mm | 110 | 110 | 20 – 100 |
| Weight of material gr/m ² / cardboard | 60 – 500 | 60 – 300 | 60 – 300 |
| Material thickness mm | 0.05 – 0.8 | 0.05 – 0.8 | 0.05 – 0.8 |
| Cutting length mm | > 5 | > 5 | 20 – 150 |
| Gap height up to mm | 2.5 | 4.5 | 1.2 |
| Cuts/min. | 120 | Cutting 120 / Perforating 150 | 120 |
| Stop print job if: | Final position not reached | Final position not reached | Final position not reached, cover open, height of pile is reached |
| | Cutter tray 4 □ | Perforating | Piling up reached |
| | For material width up to mm 120 material height up to mm 100 | Web width mm 0.5 Web distances mm 2.5 or 10 | Height of pile up to mm 140 |

Accessories for basic devices.

External rewinder ER 4/6/8 with built-in power supply

The rewinder can be attached to almost every other printer. All other technical data are according to the rewinder.











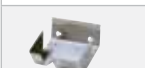

Tesster for linear barcodes














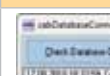


The built-in scanner tests the barcodes directly after printing. If the barcode is not readable the printing process can be stopped at once so the faulty labels can be removed. It is primarily intended to be used with the external rewinder ER4 – ER8.



| | External rewinder | |
|-------------------------|-------------------------|-----------|
| | ER4 / 210 | ER4 / 300 |
| Material width up to mm | 120 | 120 |
| Roll Ø max. mm | 205 | 205 |
| Core Ø mm | 40 / 76 | 40 / 76 |
| Operating voltage | 100 – 240 V~ 50 / 60 Hz | |
| Label winding | Outside or inside | |

Delivery program for accessories.

| | Part No. | Hardware | dpi | Core |
|--|--|--|-----|------|
|  | 5954552 5954554 | Label printer A4+M | 300 | 38 |
|  | 59545xx.101 | Printer with metal cover for A4+M | | |
|  | 595xxxx | Label printer for thermal direct printing on request | | |
| Scope of delivery: | | | | |
| | | Label printer, Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Operation manual de/en | | |
| DVD: | | Operating manual in 21 languages, Configuration manual de/en/fr, Service manual de/en, Spare part list de/en, Programming manual en, Windows printer driver 32/64 bit in 19 languages for Windows 2000 Server 2003 Windows XP Server 2008 Windows Vista Server 2008 R2 Windows 7 MAC OS X driver de/en/fr, Linux driver de/en/fr, Label software cablabel R2+ in 24 languages, Database Connector en | | |
| | Part No. | Consumables | | |
|  | 5954072.001 | Printhead 4 / 300 | | |
|  | 5954180.001 5954183.001 | Print roller DR4 Rewind assist roller RR4 | | |
| | Part No. | Zubehör | | |
|  | 5954018.001 | Metal cover for A4+M | | |
|  | 5948000 | Cutter CU4 | | |
|  | 5960050.351 5960050.352 | Perforation cutter PCU 4/2,5 Perforation cutter PCU 4/10 | | |
|  | 5946995.001 | Cutter tray 4 | | |
|  | 5541313 | Stacker with cutter ST4/M | | |

| | Part No. | Accessories |
|---|------------------------------------|--|
|  | 5959622 | Adapter 100 |
|  | 55xxxxx | Storage table ST4/M, label W x H |
|  | 5958932 | Base frame A4 |
|  | 5570820 | Barcode tester hl40-4 |
|  | 5948100 5946090 | External rewinder ER4 / 210 External rewinder ER4 / 300 |
|  | 5954380.001 | External operation panel |
|  | 5901630 | Compact keyboard USB Cherry G84-4100 |
|  | 5561043 | Memory card CompactFlash Type I |
| | 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 gray |
| | Part No. | Software |
|  | DL 40100 | Database Connector license |
|  | 5580215 | Administration Network Manager |
|  | In Scope of delivery on request | Label software cablabel R2+ Codesoft, Nice Label, Easylabel |
| | 9008486 | Programming manual English, printed copy |

The cab delivery program.

EOS 1/4 label printer



MACH4 label printer



A+ series label printers



XD4 label printer



XC series label printer



Hermes+ Print and Apply



PX series print module



FL series laser marking systems



Laser safety housing



Label software



VS 120 label dispenser

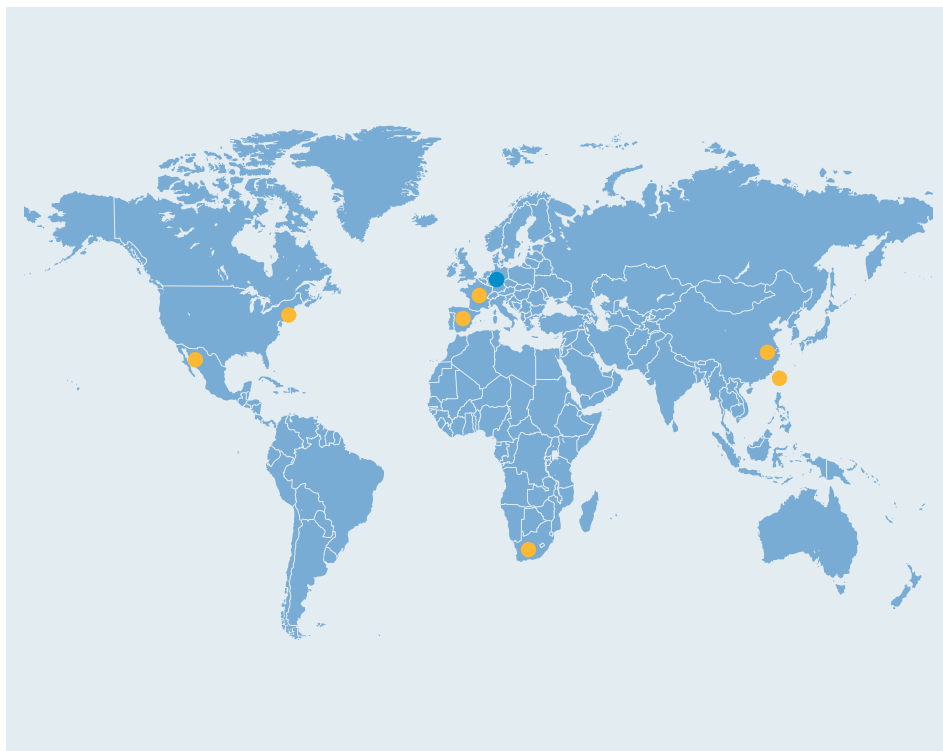


Labels / ribbons



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- *cab subsidiaries*
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in more than 80 countries.

cab is represented in every active commercial center - worldwide.



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