



# Label Printer **A<sup>+</sup>** Series

The Premium Class.

## 2 Application

### The professional printer for industrial demands



Our professional printers can be used within a broad application range. Our ambition was to create easy handling and high reliability. The print mechanism

and the chassis are made of first-class material, perfectly harmonized in form and function. Any specific customer requirement can be realized with the exten-

sive amount of periphery and software. Stand-alone operation, PC-application or network operation: A+ is the solution - any time.

### Small and large labels precise and fast – examples

PCB identification label



Smallest label size 4 x 5 mm, if there is only little space.

Labels for cardboards



Labels up to DIN A4 / 8.5" size wide.

Type plates



Pin sharp fonts, graphics and barcodes with 600 dpi.

One concept – four widths  
Printing to measure

The small sized  
material width up to 65 mm

|                        |                                   |  |  |
|------------------------|-----------------------------------|--|--|
| Printing method        | Thermal transfer / Thermal direct |  |  |
| Print resolution dpi   | 300                               |  |  |
| Print speed up to mm/s | 150                               |  |  |
| Print width up to mm   | 54.2                              |  |  |



a2+

The fast allrounder  
material width up to 120 mm

|                        |                                   |       |       |
|------------------------|-----------------------------------|-------|-------|
| Printing 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 |



a4+  
203/300/600 dpi

The broad  
material width up to 180 mm

|                        |                                   |  |  |
|------------------------|-----------------------------------|--|--|
| Printing method        | Thermal transfer / Thermal direct |  |  |
| Print resolution dpi   | 300                               |  |  |
| Print speed up to mm/s | 200                               |  |  |
| Print width up to mm   | 162.6                             |  |  |



a6+

The extra broad  
material width up to 235 mm

|                        |                                   |  |  |
|------------------------|-----------------------------------|--|--|
| Printing method        | Thermal transfer / Thermal direct |  |  |
| Print resolution dpi   | 300                               |  |  |
| Print speed up to mm/s | 150                               |  |  |
| Print width up to mm   | 216                               |  |  |



a8+

## 4 Technical details

### Precise printing Elaborate - easy made

#### 1. Big graphic display

White backlight guarantees clearness of display.

#### 2. Ribbon retainer

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

#### 3. Easy 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 via peel-off-plate. A high printing and applying accuracy can be achieved through the additionally powered rewind assistant roller and the pinch roller.

#### 5. Peripheral connection

Add-on modules like cutter, external re-winder, present sensor, peel-off adapter and applicators can be easily connected via USB peripheral interface.

#### 6. Solid, buckling resistant chassis

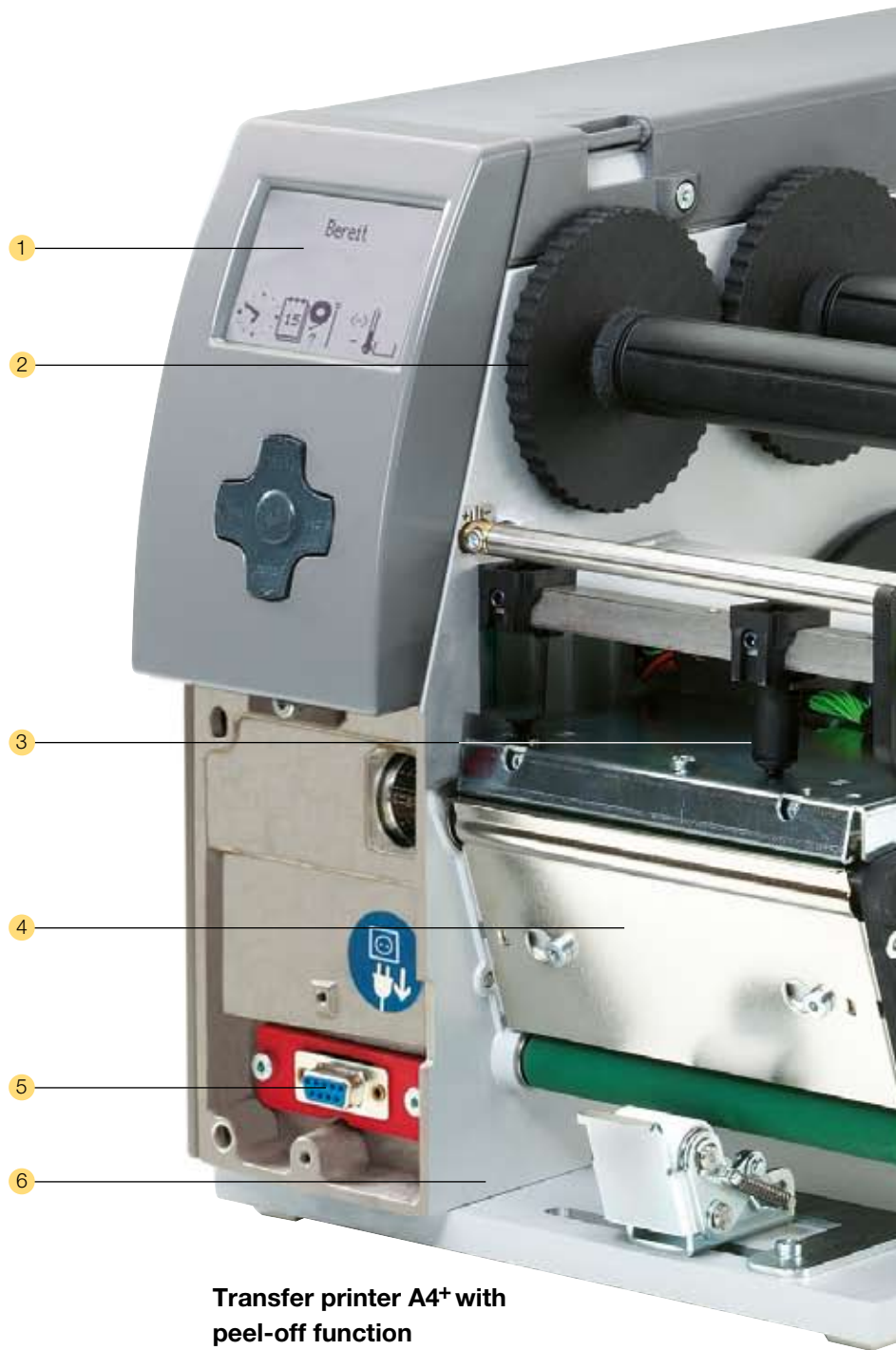
It is made of dye-cast aluminium. All devices are assembled to it.

#### 7. Roll holder

Designed to accommodate rolls 38 - 76 mm. Adaptors for rolls up to 76 and 100 mm and rotating roll holders are also available. With the clamp small rolls are also held securely.

#### 8. Label re-winder

The threepart tension axles allow labels or backing paper to be rewound with or without the use of a core. Removal of the roll is easy.

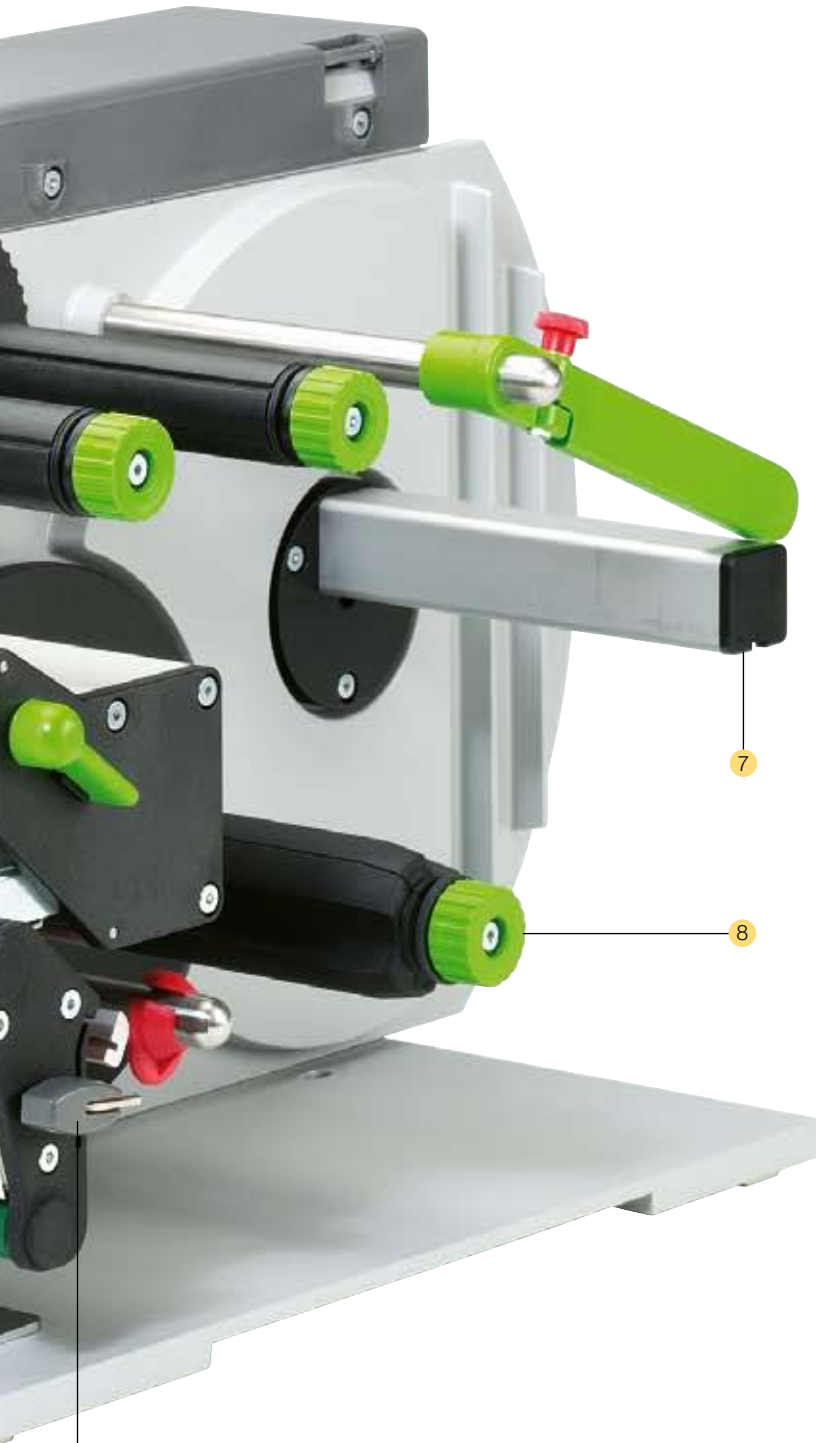


**Transfer printer A4+ with  
peel-off function**



**Innovative technology for a better  
climate protection, energy-saving,  
environmentally conscious.**

## Easy servicing and removing of consumables



### Label sensor



The label sensor can be unlocked with only one finger and can be removed for cleaning.

### Printhead



The printhead can be exchanged in only a few steps. Adjustments and settings are not necessary.

### Print roller



For cleaning or replacement the print roller can be easily removed by loosening only three screws.

### 9. One tool for all maintenance tasks

Only one tool for all service requirements. It is readily available in the machine.

9



## 6 Models

### Four steps to the optimal appliance

#### 1. Transfer printing



For printing on standard paper, cardboard, textiles, plastic foil (PE, PP, PVC, PA or PI). Wax, resin or wax/resin ribbons can be used.

#### Thermal direct printing



All transfer printers can be operated in thermal direct printing-mode without ribbon.

#### 2. Basic version



For printing on labels and continuous material. After printing it can be torn off with the ridged tear-off plate. It can be cut or rewound externally.

#### Dispense version „P”



For printing and dispensing labels. During the printing the label is removed from the liner. It can be taken off manually or by an applicator. 1 The present sensor has to be ordered separately.

#### 3. Compact cover



The 2-part cover of impact resistant plastic folds when opened. Therefore, the printer needs the smallest footprint in its class.

#### Metal cover



The transfer printers A4+ and A6+ are available with a full metal cover (standard with the A8+) on request.

#### 4. RFID ( additional option )



The cab RFID option for the printers of the A+-series reads and rewrites transponders in smart-labels with 13.56 MHz before the printing process.

## All required interfaces are factory installed

### PC/SPS interfaces

- **1. Serial RS232 C** interface from 6600 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.
- 4. Serial RS422** for long distance communication  
**Serial RS485** for networking up to 25 printers.
- 5. Label selection box**  
Up to 16 different input signals for automatic loading and printing of labels from the memory card.



### 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/CompactFlash administration. Error messages can be sent via e-mail or SNMP. Time and date synchronization through time server.
  - **7. Slot for Wireless LAN-Card** or **PC-Card Type II (PCMCIA)**
  - 8. WLAN-card IEEE 802.11 b/g** for wireless network connection, dependent 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
- Standard  Option



### Peripheral connection

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

## Stand-alone operation without PC

The layout of the labels is created either with the label software or directly on the PC.

Label formats, fonts and graphic data, serial data and data base contents are saved on the USB memory, the CF memory card or on the internal IFFS printer memory.

Only the 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.



## 8 Technical data

| 1. Printhead   | A2+   | A4+   |       | A6+      | A8+       |
|--|---|---|-------|----------|-----------|
| Printing method  | Thermal transfer / Thermal direct   |   |       |          |           |
| Print resolution dpi   | 300   | 203   | 300   | 600      | 300       |
| Print speed up to mm/s   | 150   | 250   | 250   | 100      | 200       |
| Print width mm   | 54.2  | 104   | 105.6 | 105.6    | 162.6     |
| <b>2. Material</b>   |   |   |       |          |           |
| Labels, continuous rolls or fan-folded   | thermal and standard paper, cardboard, textile, plastic foils PE, PP, PVC, PA, PI |   |       |          |           |
| Material thickness mm / weight g/m <sup>2</sup>  | 0.055 - 1.2 / 60 - 250  |   |       |          |           |
| Label width <sup>1)</sup> mm   | 4 - 61  | 4 - 116   |       | 50 - 176 | 50 - 220  |
| Width of carrier or of continuous material mm  | 25 - 65   | 25 - 120  |       | 50 - 180 | 50 - 235  |
| Label height <sup>1)</sup> min. mm   |   | 4 - 1000  |       | 6 - 1000 | 10 - 1000 |
| Label height when dispensing <sup>1)</sup> min. mm   |   | 12 - 200  |       | 25 - 200 | -         |
| Media roll: Total diameter up to mm  |   | 210   |       |          |           |
| Core diameter mm   |   | 38 - 100  |       |          |           |
| Winding direction  |   | inside our outside  |       |          |           |
| <b>3. Ribbon</b>   |   |   |       |          |           |
| Ink  |   | inside or outside   |       |          |           |
| Roll diameter up to mm   |   | 80  |       |          |           |
| Core diameter mm   |   | 25  |       |          |           |
| Ribbon length variable up to m   |   | 500   |       |          |           |
| Width up to mm   | 56  | 114   |       | 165      | 220       |
| <b>4. Internal re-winder (only peel-off version)</b>   |   |   |       |          |           |
| Total diameter up to mm  |   | 142   |       |          | -         |
| Core diameter mm   |   | 38.1  |       |          | -         |
| Winding direction  |   | only outside  |       |          | -         |
| <b>5. Dimensions of the printer</b>  |   |   |       |          |           |
| Height x Depth mm  |   | 274 x 446   |       |          |           |
| Width mm   | 190   | 242   |       | 302      | 352       |
| Weight kg  | 8,5   | 9   |       | 13       | 15        |
| <b>6. Label sensor</b>   |   |   |       |          |           |
| See-through 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   | 5 - 26  | 5 - 53  |       |          |           |
| <b>7. Electronics</b>  |   |   |       |          |           |
| Processor high speed 32 Bit ColdFire/Taktrate MHz  |   | 266   |       |          |           |
| (RAM) MB   |   | 64  |       |          |           |
| Memory IFFS MB Flash   |   | 8   |       |          |           |
| Slot for memory CompactFlash-card Type I up to 1 GB  |   | ■   |       |          |           |
| Slot for memory card Cardbus / PC-Card Type II   |   | ■   |       |          |           |
| Real time clock, print-ad out of time and date   |   | ■   |       |          |           |
| <b>8. Operation panel</b>  |   |   |       |          |           |
| Buttons illuminated, depending on mode of operation  |   | Pause, Feed, Cancel, Menu, Enter, 4 x Cursor                        |       |          |           |
| LCD graphic display Width x Height in mm   |   | 60 x 40   |       |          |           |
| lines/characters   |   | 4 / about 20  |       |          |           |
| <b>9. Interfaces</b>   |   |   |       |          |           |
| Parallel Centronics bi-directional acc. IEEE 1284  |   | □   |       |          |           |
| Serial RS 232 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 |   | ■   |       |          |           |
| RS 422, RS 485 1,200 up to 230,400 Baud/8 Bit  |   | □   |       |          |           |
| Peripheral connection  |   | ■   |       |          |           |
| WLAN card 802.11b/g  |   | □   |       |          |           |
| USB Master for keyboard and scanner  |   | 2x ■  |       |          |           |

<sup>1)</sup> Depending on label size, material and adhesive limitations are possible.  
Critical material or applications have to be tested and cleared.

■ Standard □ Option



| 10. Monitoring         |  |
|------------------------|--|
| Stop printing if       | End of ribbon<br>End of labels<br>Printhead open   |
| On the Display         | Data reception      Clock<br>WLAN field intensity      Date sheet<br>Ethernet state      abc Debug<br>Used memory      Input buffer<br>Temperature printhead<br>Access to memory card<br>Remaining quantity of ribbon  |
| 11. Settings           |  |
|                        | Time, date, digital or analog clock.<br>Country and language settings<br>BE, BG, CH, CN, CZ, DE, DK, ES, FI, FR,<br>GR, HR, HU, IR, IT, LT, MK, MX, NL,<br>NO, PL, PT, RU, RS, SE, SI, TH, TR,<br>UK, US, ZA<br>system settings, print parameters,<br>Interfaces, security                                       |
| 12. Test routines      |  |
|                        | System diagnosis of memory and print head when switched on, Short Status, Status Print, font list, device list, WLAN state, profile of print head, profile of label, test grid, monitor mode, PPP state  |
| Status reports         | Extensive status print with information about instrument setting, for example print length counter, runtime counter etc. 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.<br>Optional Chinese (simplified Chinese)<br>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, KOI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese |
| Bitmap fonts           | Size of width and height 1 - 3 mm<br>zoom 2-10. Orientation 0°, 90°, 180°, 270°  |
| Vector-/TrueType fonts | Size of width and height 0.9 - 128 mm<br>variable zoom,<br>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  |
| 15. Codes                           |  |
| Linear Barcodes                     | Code 39, Code 93      Interleaved 2/5<br>Code 39 Full ASCII      Ident- and lead<br>Code 128 A, B, C      code of german<br>Codabar      Post AG<br>EAN 8, 13      JAN 8, 13<br>EAN/UCC 128      MSI<br>EAN/UPC Appendix 2      Plessey<br>EAN/UPC Appendix 5      Postnet<br>FIM      RSS 14<br>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<br>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. |
| 16. Software                        |  |
| Programming                         | J-Script direct programming      ■<br>abc-Basic Compiler      ■<br>Database Connector      □   |
| System diagnosis/<br>Administration | printer monitoring      ■<br>Network Manager      □  |
| cab Label software                  | cablabel R2 Lite      ■<br>cablabel R2 Pro      □  |
| More<br>Label software              | Easylab, Codesoft, Nicelabel,      □<br>Bartender, Label Matrix, Labelview   |
| Windows driver                      | 2000, XP32/64 bit,      ■<br>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,      ■<br>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, UL   |
| ■ Standard    □ Option              |  |

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

# 10 Accessories

## Peripheral devices - optimal accessories at full benefit

| For the printer                                       | Page | Basic d. | Dispense d. | A2+                      | A4+                      | A6+                      | A8+                      |
|---|------|----------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Cutter CU  | 10   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Perforation cutter PCU4                            | 10   | •        | •           | -                        | <input type="checkbox"/> | -                        | -                        |
| 3. Barcode tester                                     | 11   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Guide plate for internal rewinding                 | 11   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | -                        | -                        |
| 5. External re-winder for direct printer connection   | 11   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. External re-winder with built-in power supply      | 11   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. External un-winding of rolls up to 300 mm Ø        | 11   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Peel-off plate PS5 for automatic operation         | 12   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -                        |
| 9. Present sensor PS6 for manual /automatic operation | 12   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -                        |
| 10. Pause adapter PS7 – pause of print job            | 12   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Present sensor PS8 for manual operation           | 12   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -                        |
| 12. Present sensor PS9 custom specific                | 12   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -                        |
| 13. Extended peel-off plate                           | 12   | -        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -                        |
| 14. Adapter 76 mm Ø                                   | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | ■                        | ■                        |
| 15. Adapter 100 mm Ø                                  | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Rotating label un-winder IUX 76 mm Ø              | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. External operation panel                          | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Numerical keyboard                                | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Compact keyboard                                  | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Standard keyboard                                 | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21. Media   | 13   | •        | •           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

● Models ■ Standard □ Option

### Cutting labels and continuous material

#### 1. Cutter CU



The cutter is used to cut labels, cardboards, textiles or heat shrinkable tubing separately, either in multiple cuts or at the end of the print job.

#### 2. Perforation cutter PCU4



The perforation cutter is used to cut labels, cardboards, textiles or heat shrinkable tubing separately, either in multiple cuts or at the end of the print job.

| Cutter                                 | CU2                                  | CU4                      | CU6 | CU8 |
|--|--------------------------------------|--------------------------|-----|-----|
| For printer                            | A2+                                  | A4+                      | A6+ | A8+ |
| Material weight up to g/m <sup>2</sup> | 500                                  |                          |     |     |
| Material width up to mm                | 65                                   | 120                      | 180 | 232 |
| Material height from mm                | 2 - Depending on material limitation |                          |     |     |
| Cutter tray                            | -                                    | <input type="checkbox"/> | -   | -   |

| Perforation cutter                     | PCU4                     |
|--|--------------------------|
| For printer                            | A4+                      |
| Material weight up to g/m <sup>2</sup> | 500                      |
| Material width up to mm                | 120                      |
| Material height from mm                | 12                       |
| Perforation gap mm                     | 2.5 / 10                 |
| More gaps on request                   |                          |
| Cutter tray                            | <input type="checkbox"/> |

## Testing of barcodes

## Winding and unwinding of labels

### 3. Barcode tester



Testing barcodes directly after printing. Can be used together with the external re-winder ER4 - ER8.

**For 2D-Codes on request.**

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.

### 4. Rewind guide for internal rewinding



The internal rewinding is operated by the dispense printer. The peel-off-plate is replaced by the rewind guide plate (for devices A2+ and A4+).

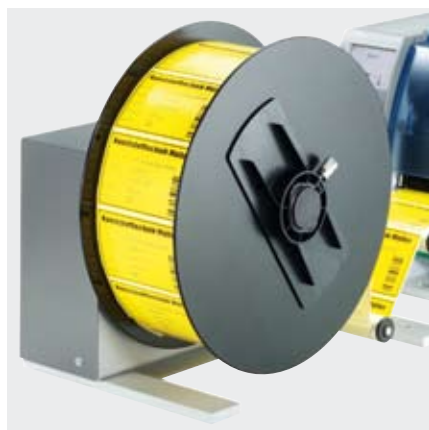
### 5. External rewriter



#### Direct connection onto the printer

The rewriter is screwed directly onto the printer. The label winding is optional inside or outside. A smooth and tight winding is due to the electronic control of the swing arm.

### 6. External rewriter



#### With built-in power supply

The rewriter can be attached to almost every other printer. All other technical data are according to the rewriter (see section 5).

### 7. External unwinder



#### For label rolls up to 300 mm Ø

It enables a smooth feeding of labels for heavy rolls. The unwinder works both with inside and outside wound labels.

| External rewriter        | ER1   | ER2 | ER3 | ER4   | ER4 | ER6 | ER8 |
|--------------------------|---|-----|-----|---|-----|-----|-----|
| Roll Ø max. mm           | 210   | 210 | 210 | 210   | 300 | 300 | 300 |
| For printer              | all A <sup>+</sup> -Series devices            |     |     | all A <sup>+</sup> -Series-devices & other manufac. |     |     |     |
| Material width up to mm  | 120   | 180 | 235 | 120   | 120 | 180 | 235 |
| Winding speed up to mm/s | 250   | 200 | 150 | 300   | 300 | 250 | 200 |
| Power supply             | 24 VDC  |     |     | 100 - 240 V~ 50/60 Hz                               |     |     |     |
| Core Ø mm                | 40 - rewinding with or without cardboard core |     |     |   |     |     |     |
| Adapter mm               | 76 - rewinding with cardboard core            |     |     |   |     |     |     |
| Winding of labels        | inside or outside                             |     |     |   |     |     |     |

| External unwinder       | EU4   | EU6 | EU8 |
|-------------------------|---|-----|-----|
| Roll Ø max. mm          | 300   | 300 | 300 |
| For Printer             | A <sup>+</sup> -Series & other manufactures |     |     |
| Material width up to mm | 120   | 180 | 235 |
| Core Ø mm               | 40  |     |     |
| Adapter mm              | 76  |     |     |
| Winding of labels       | inside or outside                           |     |     |

## 12 Accessories

### Specific solutions for different requirements.

#### 8. Peel-off adapter PS5



##### For automatic operation

Printing and dispensing of the label is started via an external signal. The discharging can be made by a robot, applicator or manually. With six additional input and output signals like "label taken" or "print of label is started" the labelling process can be controlled.

#### 9. Present sensor PS6



##### For manual and automatic operation

There are two options:

1. Dispensing after removal (manual) without connection to the external peripheral connector.
2. Dispensing on demand (semi-automatic) with present trigger, foot switch and external control system.

#### 10. Pause adapter PS7



##### Interruption of print job

The printing can be paused by an external signal by using a label loop.

#### 11. Present sensor PS8



##### For manual operation

The photo cell detects the label in peel position and pauses the labelling process. After removing the label the next one is printed instantly.

#### 12. Present sensor PS9



For dispensing labels where the outer edges are not detected by the present sensor PS6. The extension is made on customer specification.

#### 13. Extended peel-off plate



If labels are difficult to peel off we recommend a 10 mm extended peel-off plate.

## 14. Adapter 76 mm Ø



Recommended for heavy rolls with a core diameter of 76 mm.

## 15. Adapter 100 mm Ø



Both for very sensitive or small labels we recommend a core diameter of 100 mm.

## 16. Loose un-winder IUX 76 mm Ø



Recommended for dust-sensitive areas. The roll is fixed tightly onto the un-winder. (No abrasion due to the cardboard core.)

## 17. External panel



## 18. Numerical keyboard



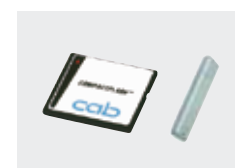
## 19. Compact keyboard



## 20. Standard keyboard



## 21. Media



|  |                    |                                  |                     |  |
|--|--------------------|----------------------------------|---------------------|--|
| Connection: USB                                      | Connection: USB    | Connection: USB                  | Connection: USB     | CompactFlash Type I  |
| Button: Pause, Feed, Cancel, Menu, Enter, 4 x Cursor | No. of keys: 19    | No. of keys: 86                  | No. of keys: 115    | USB storage  |
| Display: 60 x 40 mm                                  | L x W mm: 120 x 76 | L x W mm: 282 x 132              | L x W mm: 460 x 192 | Label formats, fonts, texts and graphics can be saved. It can be accessed from the printer or from the PC. |
| Slot for: CF-card Type I                             |                    | Cherry Classic Line G84-4100 LCM | Cherry G83-6504 LAD |  |
| Interface: USB Master                                |                    |                                  |                     |  |

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

## 22. Present trigger



For semi-automatic applications the printing, and peel-off-function can be activated via manual control switch.

## 23. Foot switch



For semi-automatic applications the printing, and peel-off-function can be activated via foot switch.

## 24. Photo cell



For automatic product identification on the conveyor belt.

## 25. Sub-D plug



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

| Supplies for           | Peel-off adapter PS5     | Present sensor PS6/9     | Pause adapter PS7        | Applicator A 1000        |
|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 22. Present trigger    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23. Foot switch        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24. Photo cell         | -                        | -                        | -                        | <input type="checkbox"/> |
| 25. Sub-D plug 15 pole | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 pole                | -                        | -                        | -                        | <input type="checkbox"/> |

# 14 Applicator A 1000

## Print and apply in real-time

### 1. Long operation lines

The guides have ball bearings which avoid abrasion.

### 2. Variable product heights

With the pneumatic cylinder it is possible to compensate differences in product heights. It is available in different heights of stroke.

### 3. Simple adjustment

Four screws are needed to adjust the tamp pad to the dispensing edge. The processing can be optimized at the operator panel during the testing.

### 4. Pre-dispense key

Tests the labelling function. At the first operation the label is printed and then transferred via the applicator. By pushing the button again the label is applied.

### 5. Air service unit

The mounting takes place directly on the printer. The micro strainer prevents contamination, the compressed air regulator guarantees the labeling quality.

### 6. High process reliability

The supporting air jet streaming, the vacuum and the speed of the cylinder are adjustable. For highly sensitive products and packaging the pressure to apply labels can be reduced to less than 1 kg. Consequently there is no risk of injury. To avoid contamination within the vacuum channels are cleaned by an air pressure impulse at the end of each application.

### 7. Real-time labelling

Labels with a height of 25 - 200 mm and with a width of 25 - 176 mm can be applied.

### 8. Quick assembly

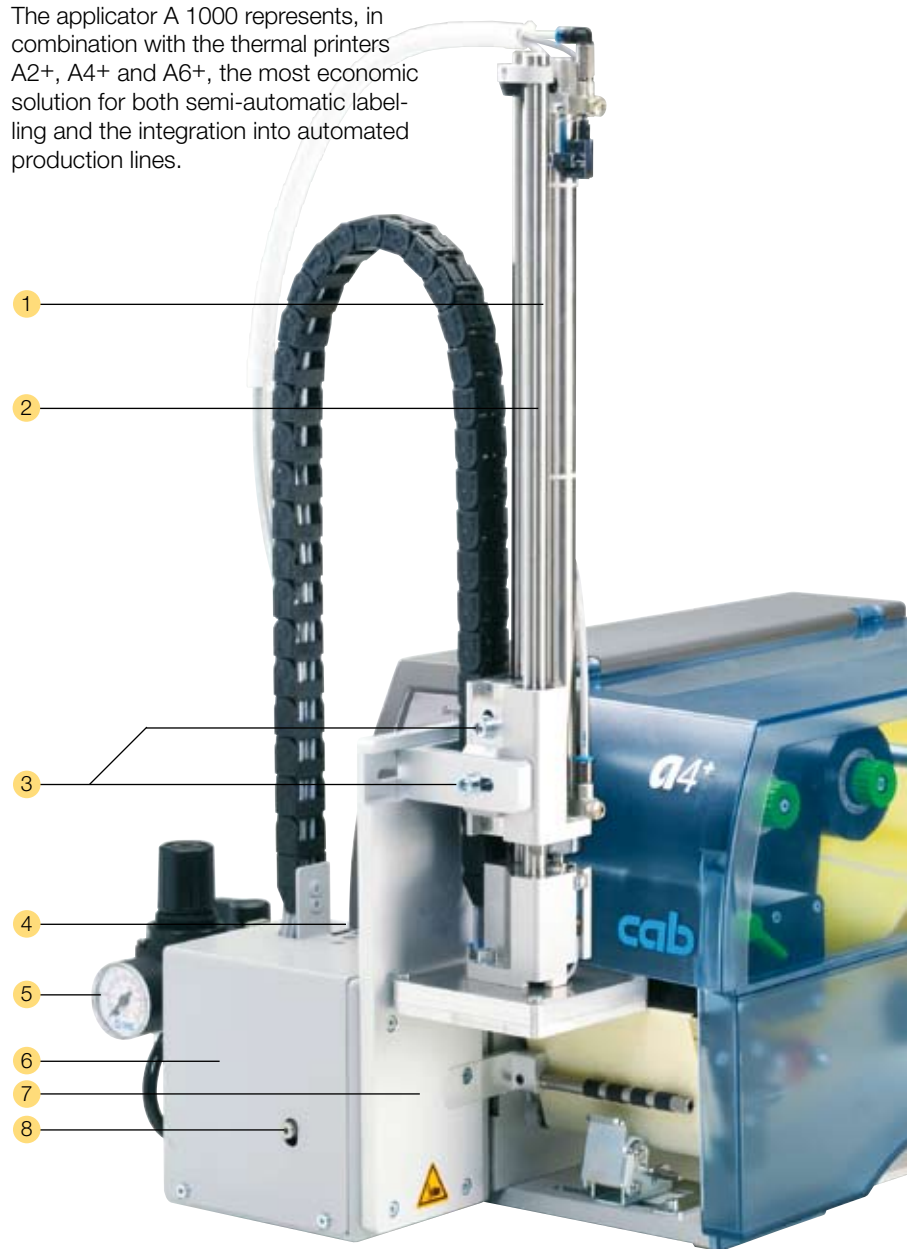
Like any other accessory, the applicator is plugged into the printer with two stoppers and can be attached with only one screw.

### Digital I/O-Interface

The master (e.g. PLC) starts or stops the labelling process. The status and error messages are issued at the same time.

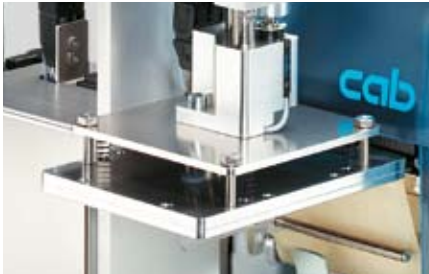


The applicator A 1000 represents, in combination with the thermal printers A2+, A4+ and A6+, the most economic solution for both semi-automatic labelling and the integration into automated production lines.



| Label transfer method           | Tamp     | Roll on   | Blow     |
|---------------------------------|----------|-----------|----------|
| Label width mm                  | 25 - 176 | 25 - 176  | 25 - 176 |
| Label height mm                 | 25 - 200 | 80 - 200  | 25 - 100 |
| Cylinder stroke mm              |          | 220 / 300 |          |
| Stroke of tamp below printer mm |          | 70 / 150  |          |
| Compressed air bar              |          | 4 - 8     |          |
| Product surface                 |          | flat      |          |
| Product height variable         | ■        | ■         | -        |
| fixed                           | -        | -         | ■        |
| Product fixed                   | ■        | -         | ■        |
| linear movement                 | -        | ■         | ■        |

## Tamp pad



During the print and apply cycle the product remains fixed. The universal tamp is covered by a foil. According to the size of the label the holes can be pierced. The tamp pads are customized to the dimensions of the label sizes on request.

## Blow pad



For applying pressure to sensitive products the label can be blown onto the product with the supporting air jet stream. The print and apply cycle performs in a fixed position or in a linear movement of the product. The blow pad moves to a pre-adjusted position approx. 10 mm away from the product.

## Roll-on pad



Using the roll-on pad the label is dispensed until it touches the roller. The tamp pad moves on top of the product. The label is then rolled on and applied by the movement of the product.

## Printer on lower frame



### Lower frame



The lower frame can be customized according to the special requirements regarding width and height. The print and apply system is positioned by adjusting two bolts. The exact position of the system can be adjusted on a guide rail.

## The stand for flexible printer mounting



The stand enables the fast and flexible application of the printer in every manufacturing line. The labelling position is easy to adjust in height and width. Four guide rollers at the undercarriage provide for mobility. It is adjusted with bases at the place of installation.

The print and apply system is mounted on a base plate with a thickness of 10 mm and can be fixed with only one clamp.

## Stand



**Printer holder  
for A4+ and A6+,  
A2+ on request**

| Stand                         |                 |
|-------------------------------|-----------------|
| Total height mm               | 1,600           |
| Labeling height up to mm      | 1,400           |
| Projection mm                 | 230 - 500       |
| Undercarriage (base distance) |                 |
| Width x Depth x Height mm     | 600 x 860 x 140 |

# 16 Software tools

## Printer Control

### Direct programming with J-Script

|                                   |   |
|-----------------------------------|---|
| J                                 | <b>Job Start</b>                            |
| H 100                             | <b>Speed (100 mm/s)</b>                     |
| O R                               | <b>Orientation rotated by 180°</b>          |
| S 11;0,0,68,70,100                | <b>Size of label (100x68 mm, gap 2 mm)</b>  |
| T 10,10,0,5,pt20;sample           | <b>Text object/font: Swiss bold, 20 pt</b>  |
| B 10,20,0,EAN-13,SC2;401234512345 | <b>Barcode EAN 13, size SC 2</b>            |
| G 8,3.5,0;R:30,9,0.3,0.3          | <b>Graphic, box 30 x 9 mm,</b>              |
| A 1                               | <b>Line strength 0.3 mm</b>                 |
|                                   | <b>Number of labels (in this example 1)</b> |

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

```

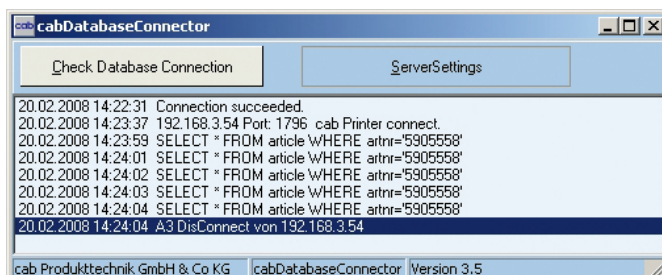
default.lbl - Editor
Datei Bearbeiten Format Ansicht ?

<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
</ABC>
  
```

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

### Printer monitoring with Intra- and Internet

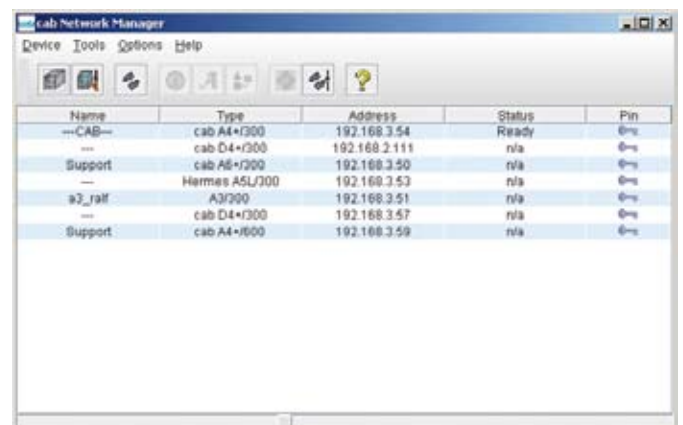


The integrated HTTP- and FTP-Server enables, with standard programs like web browser or FTP-clients, the print monitoring, configuration, the firmware-update and the administration of the memory card. Status signals, warning or error signals are sent to users or administrators either as email or SNMP-datagram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

## Administration

### 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**



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-Treiber**



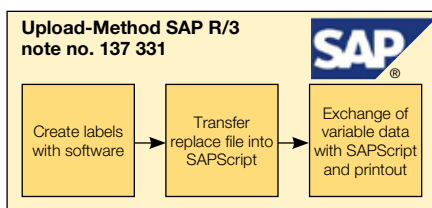
For MAC OS X cab offers a CUPS based printer driver.

**Linux-Treiber**



For LINUX cab offers also a CUPS based printer driver.

**Integration into SAP R/3**



cab developed together with SAP the "replacefile" 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 bit-map 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 code-pages are supported.

● **cablabel R2 Lite**

Extensive standard label software. You get it - free of charge - with every cab printer.

● **cablabel R2 Pro**

Allows of the embedding of diverse data bases into a label. An assistant supports the creation of UCC/EAN 128 barcodes.

Whether 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 greater response to all different functions of cab printers.

Take advantage of using the multiple possibilities of cablabel R2.

**Additional label Software**

The transfer printers and print and apply systems can be easily controlled with Codesoft, Bartender or NiceLabel.

| cablabel R2  | Lite | Pro |
|--|------|-----|
| 32-Bit Platform-compatibility  |      |     |
| Windows 2000 SP4, XP Professionnel SP2   | ■    | ■   |
| Server 2003 SP2 and Vista 32 bit   |      |     |
| Country specific   |      |     |
| BE, BG, CH, CN, CZ, DE, DK, ES, EE, FR, FI, GB, GR, HU, HR, IT, IL, JP, KR, LT, LV, MK, MX, NO, NL, PT, PL, RU, SE, SI, RS, TR, US, ZA | ■    | ■   |
| Label samples  | ■    | ■   |
| Online document. 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   | ■    | ■   |
| 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  |      | ■   |
| <b>Stand-alone</b>   |      |     |
| Printing to file   | ■    | ■   |
| Font Downloader  | ■    | ■   |
| <b>Database</b>  |      |     |
| Database Manager   |      |     |
| Access, DBF  |      | ■   |
| ASCII, ODBC, OLEDB   |      | ■   |
| <b>Variables</b>   |      |     |
| 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 forming  |      | ■   |
| Basic formula  |      | ■   |
| <b>User input fields</b>   |      |     |
| Text alignment   |      | ■   |
| Definition input format  |      | ■   |
| Minimum input length   |      | ■   |
| Selection of default values  |      | ■   |
| Automatic input  |      | ■   |
| <b>Extras</b>  |      |     |
| UCC/EAN 128 and Maxicode Assistant   |      | ■   |

## 18 Delivery program


















| Part No.                         | Hardware  | dpi | Part No.   | Expendable Parts | Part No.                                 | Expendable Parts                      |
|----------------------------------|---|-----|--|------------------|--|---------------------------------------|
| <b>5954511</b><br><b>5954512</b> | Transfer printer A2+/ 300<br>Transfer printer A2+/ 300P   |     | <b>5954105.001</b>   | Printhead 2/300  | <b>5954102.001</b><br><b>5954104.001</b> | Print roll DR2<br>Rewind assist r.RR2 |
| <b>5954500</b><br><b>5954505</b> | Transfer printer A4+/ 200<br>Transfer printer A4+/ 200P   |     | <b>5954081.001</b>   | Printhead 4/203  | <b>5954180.001</b><br><b>5954183.001</b> | Print roll DR4<br>Rewind assist r.RR4 |
| <b>5954501</b><br><b>5954506</b> | Transfer printer A4+/ 300<br>Transfer printer A4+/ 300P   |     | <b>5954072.001</b>   | Printhead 4/300  |  |                                       |
| <b>5954502</b><br><b>5954507</b> | Transfer printer A4+/ 600<br>Transfer printer A4+/ 600P   |     | <b>5954077.001</b>   | Printhead 4/600  |  |                                       |
| <b>5954513</b><br><b>5954514</b> | Transfer printer A6+/ 300<br>Transfer printer A6+/ 300P   |     | <b>5954106.001</b>   | Printhead 6/300  | <b>5954245.001</b><br><b>5954246.001</b> | Print roll DR6<br>Rewind assist r.RR6 |
| <b>5954517.101</b>               | Transfer printer A8+/ 300<br>with metal cover   |     | <b>5954107.001</b>   | Printhead 8/300  | <b>5954103.001</b>                       | Print roll DR8                        |
| <b>59545xx.102</b>               | Printer with RFID Read-Write unit 13,56 MHz   |     |  |                  |  |                                       |
| <b>59545xx.101</b>               | Printer with metal cover  |     |  |                  |  |                                       |
| <b>59545xx.103</b>               | Printer with metal cover and RFID Read-Write unit 13,56 MHz   |     |  |                  |  |                                       |
| <b>Content of delivery:</b>      | Transfer printer,<br>Power cable Type E+F, length 1,8 m<br>Operating manual German/English  |     | Programming manual English,<br>Windows printer driver 32/64 bit in 19 languages<br>for Windows 2000 / XP / 2003 and Vista,<br>MAC OS X driver German/English and French<br>Database Connector English<br>cablabel R2 lite in 24 languages,<br>operating manual English, French,<br>Spanish, Italian and German |                  |  |                                       |
|                                  | <b>CD-ROM:</b><br>Brief instruction Quick Start in 17 languages,<br>Operating manual German/English,<br>Set-up German/English,<br>Service manual German/English,<br>Spare part list German/English, |     |  |                  |  |                                       |
















| Part No.                         | Interfaces                                 |
|----------------------------------|--|
| <b>5561041</b>                   | WLAN-card 802.11 b/g                       |
| <b>5954200</b><br><b>5954201</b> | Parallel Centronics<br>Seriell RS422/RS485 |
| <b>5954191</b>                   | Label selection box                        |
| <b>5550818</b>                   | Cable RS232 C<br>9/9-pin, length 3 m       |
| <b>5901616</b>                   | Cable USB<br>length 3 m                    |



| Part No.   | Accessories  |
|--|--|
| <b>5954012.001</b><br><b>5954013.001</b>                             | Metal cover A4+<br>Metal cover A6+   |
| <b>5948382</b><br><b>5948000</b><br><b>5948001</b><br><b>5948002</b> | Cutter CU2<br>Cutter CU4<br>Cutter CU6<br>Cutter CU8                                     |
| <b>5960050.351</b><br><b>5960050.352</b>                             | Perforation cutter PCU4/2,5<br>Perforation cutter PCU4/10                                |
| <b>5946995.001</b>   | Cutter tray 4  |
| <b>5948650.001</b><br><b>5946244.001</b><br><b>5946414.001</b>       | Tear-off plate TP2<br>Tear-off plate TP4<br>Tear-off plate TP6                           |
| <b>5954108.001</b><br><b>5954190.001</b>                             | Rewind guide RG2<br>for internal rewinding<br>Rewind guide RG4<br>for internal rewinding |
| on request<br><b>5570820</b><br><b>5570825</b>                       | Barcode tester hl40-2<br>Barcode tester hl40-4<br>Barcode tester hl40-6                  |

| Part No.   | Accessories   |
|--|---|
|  <b>5948102</b>       | External rewinder ER1/210                                     |
|  <b>5943251</b>       | External rewinder ER2/210                                     |
|  <b>5945802</b>       | External rewinder ER3/210                                     |
|  <b>5948100</b>       | External rewinder ER4/210                                     |
|  <b>5946090</b>       | External rewinder ER4/300                                     |
|  <b>5946420</b>      | External rewinder ER6/300                                     |
|  <b>5945804</b>     | External rewinder ER8/300                                     |
|  <b>5946091</b>     | External unwinder EU4/300                                     |
|  <b>5946421</b>     | External unwinder EU6/300                                     |
|  <b>5945806</b>     | External unwinder EU8/300                                     |
| <b>5948170</b>   | Interconnection set for ER/EU                                 |
|  <b>5946120.001</b> | Peel-off adapter PS5 automatic operation                      |
|  <b>5946900.001</b> | Present sensor PS8 manual operation                           |
|  <b>5942353.001</b> | Present sensor PS6 manual/automatic operation                 |
|  <b>5946146.001</b> | Pause adapter PS7   |
| on request   | Present sensor PS9  |
| <b>5948830</b>   | Extended peel-off plate                                       |
|  <b>5954374.001</b> | Adapter 76 mm Ø   |
|  <b>5954375.001</b> | Adapter 100 mm Ø  |
|  <b>5954371.001</b> | Rotati. label unwinder IU4 76 mm Ø                            |
|  <b>5954372.001</b> | Rotati. label unwinder IU6 76 mm Ø                            |
|  <b>5954373.001</b> | Rotati. label unwinder IU8 76 mm Ø                            |
|  <b>5954380.001</b> | External operation panel                                      |
|  <b>5917909</b>     | Numerical keyboard USB  |
| on request   | Compact keyboard USB, Cherry Classic Line G84-4100 LCM        |
| on request   | Standard keyboard USB Cherry G83-6504 LAD                     |
|  <b>5561043</b>     | Memory card CompactFlash Type I                               |
|  <b>5561045</b>     | USB storage   |
|  <b>5942345</b>     | Present trigger TR1   |
|  <b>5535901</b>     | Foot switch SPS   |
|  <b>5941526</b>     | Photo cell to start SPS                                       |
|  <b>5917652</b>     | Interface connector SUB-D-plug 15 pole Phönix Contact 2761606 |
|  <b>5917651</b>     | Interface connector SUB-D-plug 25 pole Phönix Contact 2761622 |

| Part No.   | Applicators                              |
|--|--|
|  <b>5949002</b>   | Applicator A 1000-300                    |
|  <b>5949072</b>   | Universal tamp pad A1021 70 x 60         |
|  <b>5949075</b>   | Universal tamp pad A1021 90 x 90         |
| <b>5xxxxxx</b>   | Tamp pad A1021 B x H                     |
|  <b>5949076</b>   | Universal tamp pad A1321 116 x 102       |
|  <b>5949077</b>   | Universal tamp pad A1321 116 x 152       |
| <b>5xxxxxx</b>   | Tamp pad A1321 B x H                     |
|  <b>5xxxxxx</b>  | Blow pad A2021 B x H                     |
| <b>5xxxxxx</b>   | Roll on pad                              |
|  <b>5533240</b> | Testbox 2 Automatic operation            |
| Part No.   | Fit-up aid                               |
|  <b>5949093</b> | Lower frame 340 x 160                    |
| <b>5xxxxxx</b>   | Lower frame W x H                        |
|  <b>5947400</b> | Stand 1600                               |
|  <b>8913693</b> | Printer holder                           |
| Part No.   | Software                                 |
|  <b>5580212</b> | Database Connector                       |
|  <b>5580215</b> | Network Manager                          |
|  <b>5580221</b> | Label software cablabel R2 Pro           |
| <b>9008486</b>   | Programming manual english, printed copy |

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

# Product marking



## The cab Delivery program

Transfer printer  
MACH4



Transfer printer  
A+ Series



Print and Apply  
Hermes A



Print engine PX-Series



Transfer printer e4



Labels



Ribbons



Label software



Label dispenser  
HS150



Scanner and MDE



Laser Marking System  
FL-Series



Safety housing  
with Accessories



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