



Label printer **A⁺** and **XD**

Flexible application for optimum user benefit.



Trained employees and specialists see to perfect quality.



Our labelling systems can be fit in seamlessly: for your process to run smoothly.



We offer a high level of individualization We do not only deliver devices, but also parts of your processes.

Quality in the first place

With our progressive, first-class product labelling systems and devices we have established ourselves as a constant on the global market. Since 1975 our customers rely on high quality "Made in Germany".

cab goes global

Today we hold the position as an innovation leader. Like many of our customers we are based in Germany but act global. Seven subsidiaries and 350 professional distribution partners in more than 80 countries all over the world ensure cab to be close to her customers.

In-house production

In order to achieve highest quality we manufacture on our own production line in Sömmerda. We are accredited according to ISO 9001 and try to constantly strengthen our leading position.

Devices with system

Labelling technology is characterised in that it is needed almost everywhere, in changing environments, with other standards, with various process integrations. For this reason we consequently pursue our fundamental idea of a system solution: all our devices go with the individual software as well as the labels, the ribbons, the connection to and the integration into your superior processes

respectively – a one-stop solution. You see: we have much going for! For 11 years now our entire product range is awarded 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 CO₂/day.



Innovative technology for better climate protection, energy-saving. Environmentally conscious.

One concept – 6 designs



a2+

The slender

The lean solution for preciseness and accuracy. For exceptionally narrow labels from 4 – 60 mm width with a print resolution of 300 and 600 dpi.



a4+

Our top-seller, with optimal accessories

The fast solution for every industrial application. For labels and continuous materials from 4 - 120 mm width with a print resolution of 200, 300 and 600 dpi and a print speed up to 250 mm/sec.



a4+M

The special one with centred material guide

The solution for thick continuous materials like tubes and tapes or if it is necessary to change labels with different widths often. For materials from 4 - 110 mm width with a print resolution of 300 and 600 dpi.



a6+

The broad

The adequate solution for labels up to 176 mm width. Perfect for the application with Odette and UCC/EAN 128 labels.



a8+

The extra broad

The major solution for a label width up to 220 mm. Typical application areas for the A8+ are the packaging industry, the chemical industry, pallet labelling, barrel labelling and the colour and lacquer application.



XD4M

The double sided with centred material guide

The formidable solution for simultaneous printing of front and back of continuous or prefabricated materials up to 110 mm width. Whether textiles, paper, card board or flat compressed heat shrink tubes: the materials are printed double sided with a print resolution of 300 dpi.

The printers for industrial demands



Our professional printers are applied within a broad application range. Our ambition during development was to create an easy and intuitive handling and high reliability. The print mechanism

and the chassis are made of first-class material, perfectly harmonised in their form and function. Extensive periphery and software ensure customer-specific solutions – any time.

Stand-alone operation, PC-application or network operation: the A+ printer is always up to the mark! The high speed processor provides a fast processing of a print job and a quick first- label output.

Small and large labels precise and fast

PCB label



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

Serial tags



Pin sharp fonts, graphics and barcodes with 600 dpi.

Shipping and pallets labels



Labels up to DIN standard A4.

Just a few steps to optimum appliance

Thermal transfer



For printing on standard paper, card board, textiles, synthetic materials PE, PP, PVC, PA or PI. This print method requires wax, resin or wax/resin ribbons.

Thermal direct



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

RFID (optional)



With the cab RFID option the transponders within the Smart-labels are read and rewritten before printing.

Basic version



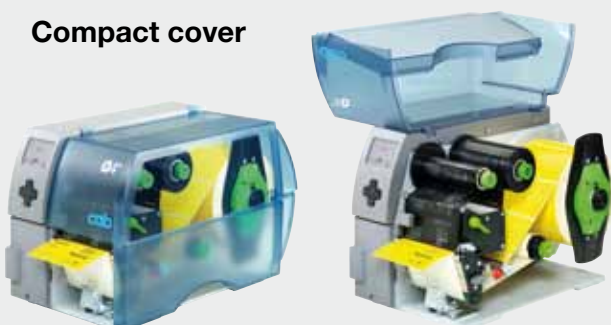
For printing on labels and continuous material. The material is torn off at the jagged tear-off edge. Optionally it can be cut off or rewound externally.

Dispense version „P“



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

Compact cover



The 2-part cover made of impact resistant ABS synthetics folds when opened. On that account this printer has the smallest footprint in its class.

Metal cover



The transfer printers A4+ and A6+ are also available with metal cover on request. (Standard with the A8+.)

Precise printing: elaborate – made easy

Label printer A4⁺ with dispense function



1 Big graphic display

White backlight guarantees optimal legibility.

2 Ribbon retainer

The threepart tightening 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 with the additionally powered rewind assistant roller and the pinch roller.

5 Peripheral connection

Add-on modules like cutter, external rewinder, present sensor, peel-off adapter and applicators can be easily connected via USB peripheral interface. All peripheral devices are put onto the printer with two gudgeons and fixed with a bolt.

6 Solid, buckling resistant metal chassis

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

7 Roll holder

Applicable for core diameters as of 38 mm. (we include adapters for core diameters from 76 mm for a better winding of the labels). The spring mounted margin stop

ensures constant tension while feeding and therefore a highly precise imprint.

8 Internal rewinder

The threepart tightening axles allow the easy rewinding and removing of labels or backing paper with or without paper core.

9 Only one tool for all maintenance tasks

The Allen key is located ready to hand directly at the printer.



Do-it-yourself servicing of consumables

Do it yourself.
You don't need a service technician anymore for this duties.

Label sensor



The label sensor can be unlocked with finger pressure and 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.

With centred material guide

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

1 Material guide

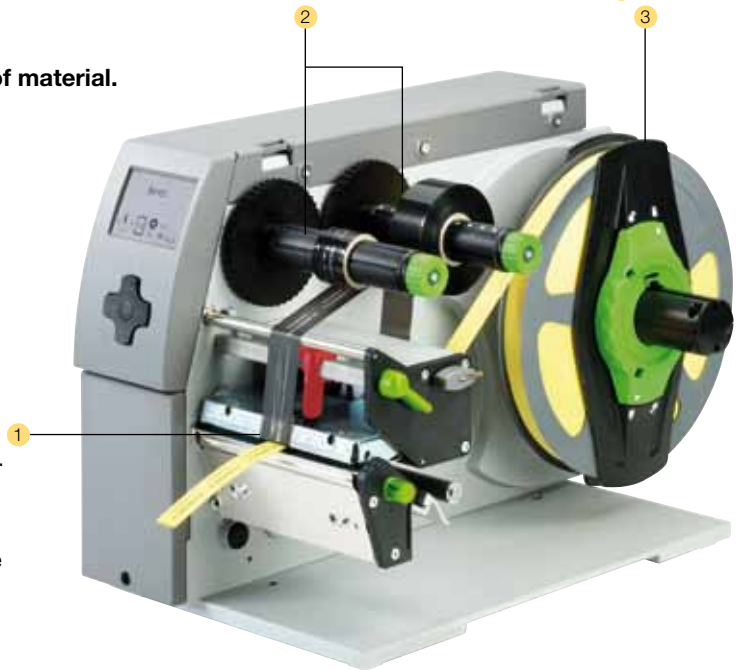
Precise printing due to the material guide located directly behind the print roller. The width is adjusted with a spindle.

2 Ribbon retainer

Easy and centred insertion of the ribbon with the threepart tightening axes. Due to the imprinted spacer the positioning of the ribbon is facilitated.

3 Label retainer

The labels are inserted into the label retainer and adjusted automatically by fitting the margin stops.



Technical details XD4M

For double sided printing with centred material guide

- Two stacked print engines for simultaneous printing of front and back.
- No adjustment of the printhead for different widths of material.
- For continuous or prefabricated materials like paper, card board, textiles and synthetics.
- The media channel height at the material sensor for flat tubes and synthetic tapes is up to 4 mm.
- The print speed for difficult printable materials is specified to 30-125 mm/sec.
- Operation and software are compatible with the A⁺-series.

1 Material guide

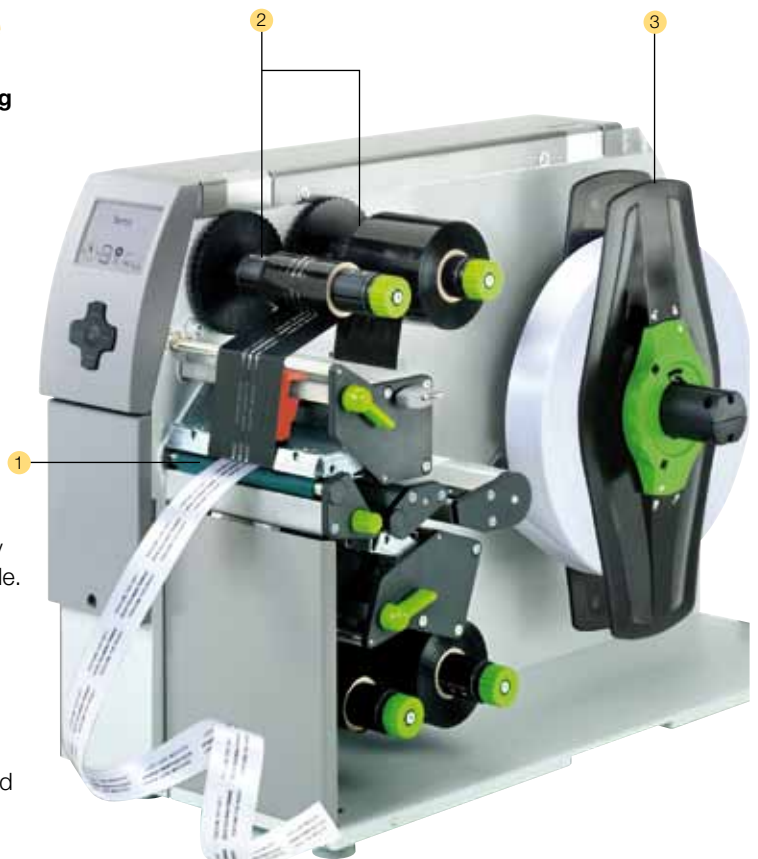
Precise printing due to the material guide located directly behind the print roller. The width is adjusted with a spindle.

2 Ribbon retainer

Easy and centred insertion of the ribbon with the threepart tightening axes. Due to the imprinted spacer the positioning of the ribbon is facilitated.

3 Label retainer

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All required interfaces



- 1 RS232C interface *not for XD4M*.
- 2 USB 2.0 Slave interface.
- 3 Ethernet 10/100 Base T-interface with TCP/IP.
- 4 Slot for Wireless LAN-Wifi-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.

Options



Centronics interface bi-directional acc. IEEE 1284. Interface RS422/RS485 1.200 up to 230.400 Baud/8 Bit *not for XD4M*.

The interfaces are plugged onto the PC. Connection to the printer via mini USB connection cable.



Label selection box – I/O box *not for XD4M*.

Up to 16 different labels can be loaded via SPS from a memory card. Operation of four in-/outputs via Basic Interpreter.



cab WLAN card 802.11 b/g.

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 G84-4100



Standard keyboard

Connection: USB
 Number of keys: 115
 L x W mm: 460 x 192
 Cherry G83-6105

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

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.

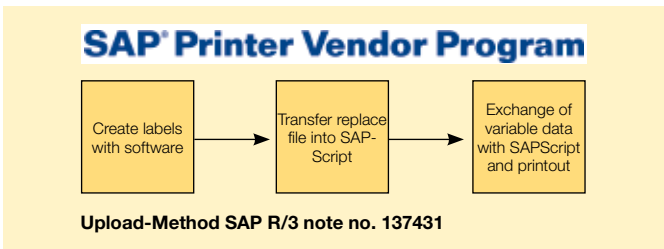
Only variable data is sent to the printer via keyboard or host computer before being printed out. Data of a barcode scanner or a scale can be additionally received by the printer.



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.



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 a Silver Level-partner in SAP's Printer Vendor Program cab has access to the SAP development area for optimal printer support in a SAP environment.

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

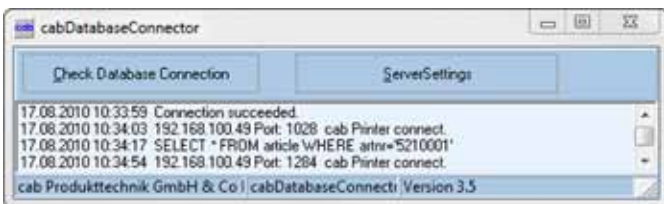
```

calypso.lbl - Editor
Datei Bearbeiten Format Ansicht ?
<ABC>
label start
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
if a$="00001" then
  print "A 1"
endif
goto start
  
```

abc - Basic Compiler

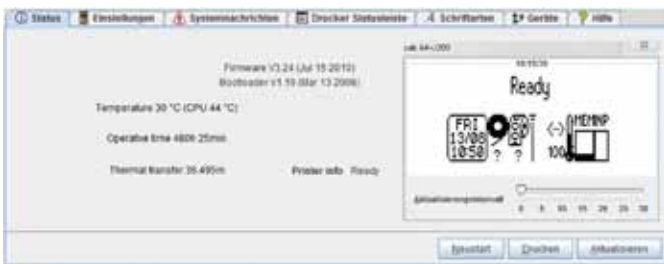
As an integrated element of the firmware it enables the printer to process data via BASIC programming before being transmitted to print editing. Thereby external printer languages can be replaced or data from other systems, e.g. SPS or a scale, can be transferred to be printed on different label sizes.

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.

cab Network Manager

Names	Gruppe	Typ	Adresse	Status	PRI
Support Text Printer	Support	cab-Mach4C005	192.168.100.48	Ready	0
Support Text Printer	Support	cab-Mach4C005	192.168.100.55	off	0
Hi Res Printer	Support	cab-44+000	192.168.100.58	off	0
	Development	A3/300	192.168.100.65	off	0

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, datasynchronization and PIN-administration centrally.



WHQL-accredited Windows printer driver for

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

Our printer drivers are officially accredited and signed by Microsoft. They offer highest stability on your Windows operating system. The programs Word, Excel, Access, Corel Draw etc. permit the design and printing of labels.



Apple-Mac OS X® driver*

Alternatively cab offers a CUPS-based printer driver for MAC OS.

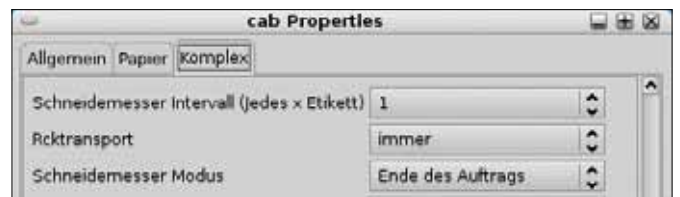


Linux driver*

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

*not for XD4M

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 for free, specially designed for cab printers and print & apply systems.

The ideal design of a label is realizable by using different fonts, barcodes and graphics in variable heights, widths and printing directions.

The cab printers offer, besides the loadable MS Windows-available TrueType Fonts, a large number of internal bitmap and vector fonts. Due to the support of the most commonly used codepages country-specific special characters are also printable.

Highly productive functions permit the design and printing of complex labels within 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 display of the data stream into a data file. The MDI-technology permits the synchronous tensioning of several labels and the switching of different objects.



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

- Windows XP
- Windows Vista
- Windows 7
- Windows Server 2003*
- Windows Server 2008*

*Terminalserver / Citrix are not supported.

Additional label software...

...such as Codesoft, Nicelabel, Easylabel, Bartender, Label Matrix or Labelview support cab's transfer printers and print & apply systems.

More information is available on our homepage.

1. Printhead		A2+		A4+			A4+M		A6+		A8+	XD4M
Printing method: Thermal transfer		■	■	■	■	■	■	■	■	■	■	
Thermal direct		■	–	■	■	–	■	–	■	■	■	–
Print resolution dpi		300	600	203	300	600	300	600	203	300	300	300
Print speed up to mm/s		150	100	250	250	100	125	100	200	200	150	125
Print width mm		54.2	57	104	105.6	105.6	105.6	105.6	168	162.6	216	105.6
2. Material												
Labels, continuous rolls or fan-folded		Paper, cardboard, textiles, synthetics like PET, PE, PP, PVC, PU, Acrylat, PI										
Material thickness mm / weight g/m ²		0.05 - 0.8 / 60 - 300										
Label width ¹⁾ mm		4 - 63		20 - 116			4 - 106		50 - 176		50 - 220	–
Width of liner or of continuous material mm		25 - 67		25 - 120			10 - 110		50 - 180		50 - 235	10 - 110
Heat shrink tube mm		10 - 67		25 - 110			3.5 - 110		–		–	3.5-110
Label height ¹⁾ without back-feed up to mm when dispensing ¹⁾ up to mm up to mm		4	4	4	4	4	5	5	6	6	10	–
		12	12	12	12	12	–		25	25	–	–
		5000	2000	5000	4000	1000	4000	1000	4000	3000	2000	2000
Media roll: Total diameter up to mm Core diameter mm Winding direction		205			205			205			300	
		38 - 100										
		outside or inside										
3. Ribbon												
Ink		outside or inside										
Roll diameter up to mm		80						72		72		
Core diameter mm		25						25		25		
Ribbon length variable up to m		500						360		360		
Width ²⁾ up to mm		56		114				165		220		114
4. Internal rewinder (only peel-off version)												
Total diameter up to mm		142						–		–		
Core diameter mm		38.1						–		–		
Winding direction		only outside						–		–		
5. Dimensions of the printer												
Height x Depth mm		274 x 446										395x554
Width mm		190		242				302		352	248	
Weight kg		8.5		9				13		15	21	
6. Label sensor												
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			–		5 - 53		–	
Distance from the center to the left		–		–			0 - 53		–		0 - 53	
7. Electronics												
Processor high speed 32 Bit ColdFire/Clock rate MHz		266										
(RAM) MB		64										
Memory IFFS MB Flash		8										
Slot for memory CompactFlash-card Type I		■										
Slot for 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		<input type="checkbox"/>										
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		<input type="checkbox"/>										
Peripheral connection		■										
WLAN card 802.11b/g WEP/WPA PSK (TKIP)		<input type="checkbox"/>										
2 x USB Master for		external operation panel, keyboard, scanner, service key										
9. Operating data												
Power supply		100 - 240 V ~ 50/60 Hz, PFC										
Power consumption		max. 300 W										
Operation temperature / Humidity		10 - 35°C / 30 - 85% not condensing										
Approvals		CE, FCC class A, CB, CCC, UL										

■ Standard □ Option

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

²⁾ The ribbon should approximate the width of the labels in order to avoid drapery.

10. Operation panel	
Buttons/LED display	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor
LCD graphic display	Text 4 lines, ca. 20 characters per line
Width x Height mm	60 x 40
11. Settings	
	digital or analog clock time system settings date print parameters interfaces 25 language settings security
12. Monitoring	
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 Temperature printhead Access to memory card Remaining quantity of ribbon
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, 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 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. Barcodes		
Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident- and leader code of Deutsche Post AG 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°. Optional with check digit, printed characters and Start/Stop code depending on code type.	
17. Software		
Programming	J-Script direct programming <input checked="" type="checkbox"/>	
	abc-Basic Compiler <input checked="" type="checkbox"/>	
	Database Connector <input type="checkbox"/>	
System diagnosis/administration	Printer monitoring <input checked="" type="checkbox"/>	
	Network Manager <input type="checkbox"/>	
Label software	cablabel R2+ <input checked="" type="checkbox"/>	
	Codesoft, Nicelabel, Easylabel <input type="checkbox"/>	
	Bartender, Label Matrix, Labelview <input type="checkbox"/>	
Windows driver certified	32/64 bit for Windows 2000 Server 2003 Windows XP Server 2008 <input checked="" type="checkbox"/> Windows Vista Server 2008 R2 Windows 7	
Mac driver*	OS X printer driver from version 10.4 <input checked="" type="checkbox"/>	
Linux driver*	Testet with Suse 9.0, CUPS based <input checked="" type="checkbox"/>	
Stand-alone operation		<input checked="" type="checkbox"/>
*not for XD4M		
		Standard <input checked="" type="checkbox"/>
		Option <input type="checkbox"/>
		Authorized distribution by resellers <input type="checkbox"/>

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

Please recall current data from www.cab.de

Cut. Perforate. Stack.



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 / XD



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

	Cutter					Perforation cutter and cutter PCU4 A4+ / A4+M / XD4M	Stacker with cutter	
	CU2	CU4	CU6	CU8	ST4/L		ST4/M	
Application	A2+	A4+	A4+M XD4M	A6+	A8+	A4+ / A4+M / XD4M	A4+	A4+M XD4M
Material width up to mm	67	120	110	180	232	85	20 - 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	
Media channel height up to mm	2.5					4.5	1.2	
Cuts/min.	130	120	110	100	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 for A4+ and A4+M For material width up to mm 120 material height up to mm 100					Perforating Web width mm 0.5 Web distances mm 2.5 or 10	Piling Height of pile up to mm 140	

Wind and unwind material / Barcode control

Rewind guide plate 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+).



External rewinder ER1/2/3 for direct connection of the printer

The rewinder 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.



External rewinder ER4/6/8 with built-in power supply

The rewinder can be attached to almost every other printer.
All other technical data are according to the rewinder ER1/2/3.



External unwinder EU4/6/8

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



Tester 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 or with dispense mode.

Present trigger or foot switch for printing on demand
description on page 16



	External rewinder										External unwinder			
	ER1/210		ER2/210	ER3/210	ER4/210		ER4/300		ER6/300	ER8/300	EU4/300		EU6/300	EU8/300
Application	A2+	A4+	A6+	A8+	A2+	A4+	A2+	A4+	A6+	A8+	A2+	A4+	A6+	A8+
Material width up to mm	67	120	180	235	67	120	67	120	180	235	67	120	180	235
Roll Ø max. mm	205	205	205	205	205	205	300	300	300	300	300	300	300	300
Core Ø mm	40 / 76				40 / 76				76					
Operating voltage	from label printer				100 - 240 V~ 50/60 Hz				-					
Label winding	outside or inside													

For dispensing labels – automatically or on demand



1 Present sensor or pause adapter

Dispensing labels requires an additional present sensor or peel-off adapter. cab offers devices both for manual and automatic operation.

Extended present sensor

only for present adapter PS5

If labels are difficult to remove from the liner a peel-off plate with rewind guide plate, extended by 10 mm, is used.



Present sensor PS8 for manual operation

The photo sensor detects the label in dispensing position and pauses the labelling process. After removing the label manually the next one is printed automatically.



Present adapter PS5 for automatic operation

Printing and dispensing of the label is started with an external signal. The label removal is made by a robot or an applicator.

Inputs: Start, label removed, external error
Outputs: No print job, printer not ready, print started, label in dispensing position.



Present sensor PS6 for manual or automatic operation

1. As with PS8 after removing the label the next one is printed automatically.
2. Dispensing on demand with present trigger, foot switch or an external signal (according PS5).



Extended present sensor PS9 for manual operation

For dispensing labels where the front edge is not detected by the present sensor PS8. The extension is made on customer-specific.



Pause adapter PS7 for basic and dispense devices

The print job is stopped with the pause signal. The active label is finished, e.g. by using a label loop.
Inputs: Pause, external error
Outputs: No print job, printer not ready, print job active

Printing and dispensing on demand

The user can attach a present trigger or foot switch onto the present sensor PS6 to start the print job.



Present trigger

Starts printing and dispensing.



Foot switch

Starts printing and dispensing.



Sub-D plug

for PS5, PS6 and PS7
Connection of the external control signals for automatic operation. Sub D plug 15-pole with screw clamps.



External panel

If the panel is not accessible anymore, e.g. after installation within a facility, it is possible to install an external panel. Additionally there is a slot for a CF memory card Type I and a USB Master interface.

Real-time application

The applicator A1000 represents, in combination with the thermal printers A2+, A4+ and A6+, a moderately-priced solution for both semi-automatic labelling and the integration into automated production lines.

1 Long economic life-time

The ball-bearing guide bars are low-wear.

2 Variable product heights

The lift cylinder allows labelling in different heights. It is available in different stroke-lengths.

3 Easy adjustment

The tamp pad is adjustable to the peel-off plate with four screws. The processing control is optimized during testing with the operation panel.

4 Pre-dispense button

Tests the labelling function. By pushing the button the first time the label is printed and held by the pad. By pushing the button again, the application is started.

5 Air-pressure regulation unit

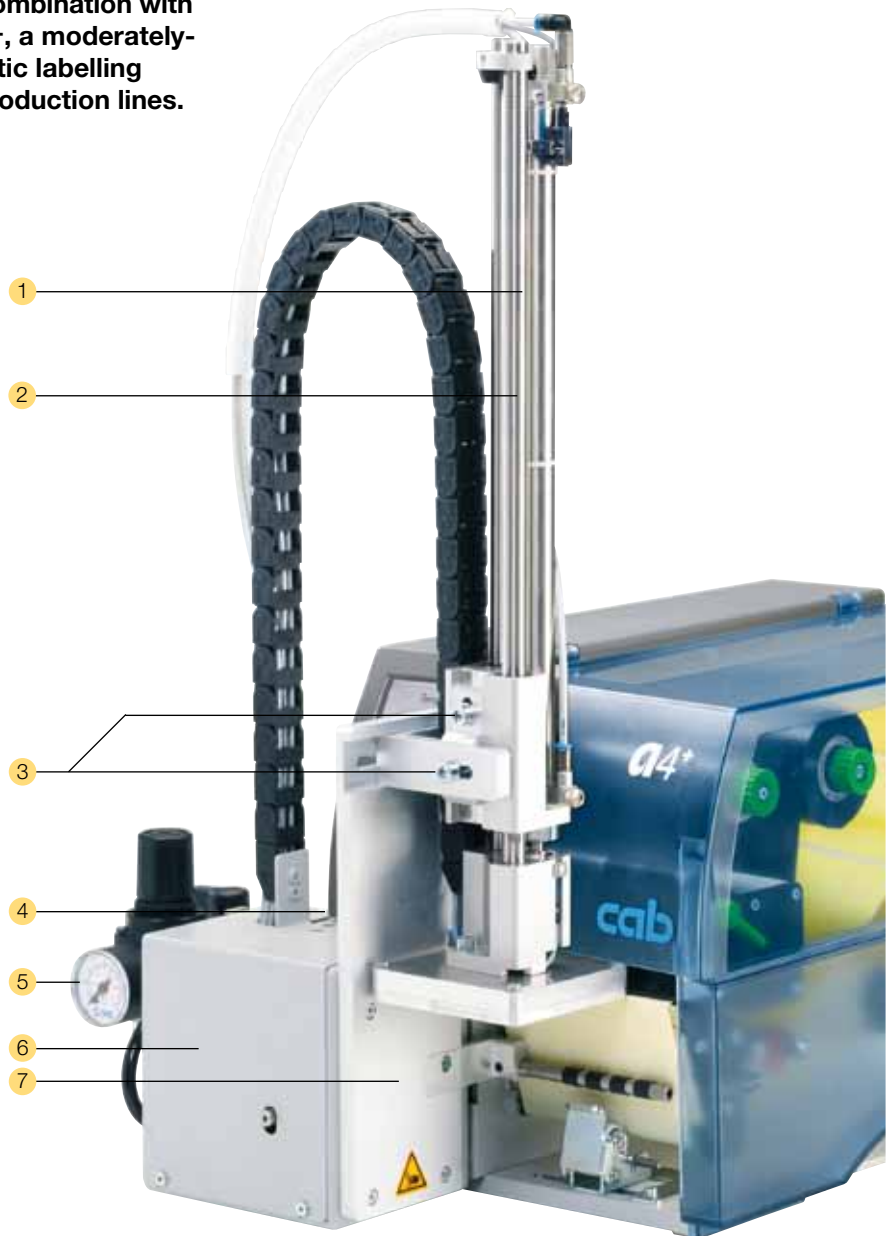
The microfilters prevent contamination and the compressed air regulator ensures the labelling quality.

6 High process reliability

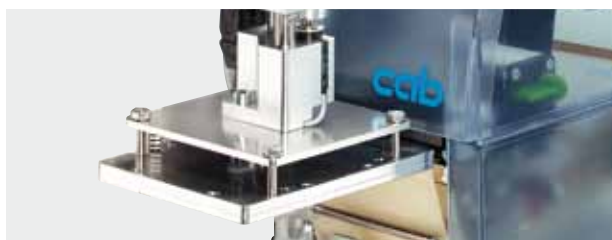
The supporting air jet streaming, the induction air and the lifting speed are adjustable. The pressure can be reduced down to less than 1 kg for highly sensitive products and packaging. To avoid contamination of the vacuum holes they are cleaned with air pressure after each application.

7 Real-time application

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



Label transfer	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	
Tamp stroke below the device mm		70 / 150	
Compressed air bar		4 - 5	
Product surface		flat	
Product height variable	■	■	-
fixed	-	-	■
Product in rest	■	-	■
in motion	-	■	■



Tamp pad

The product remains fixed during application. The vacuum holes of the universal tamp pads are covered by a foil which is pierced according to the label size. The tamp pads are adjusted to the external dimensions of the labels.



Blow pad

The label can be blown on for pressure-sensitive products. The labels can be applied optionally onto the fixed or moving product. The blow pad moves up to a fixed height approx. 10 mm above the product.



Roll-on pad

The label is moved under the roll of the pad during application. The pad moves onto the product. During transport the label is rolled on.

Digital I/O-Interface at the applicator

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



Input / Output

- Start
- Stop
- Print first label
- Printer not ready
- No print job
- Combined alarm
- Basic position reached
- Labelling position reached
- Labelling error

Printing and dispensing on demand

The user can attach a present trigger, a foot switch or a product sensor at the digital I/O interface of the applicator to start the print job.



Present trigger

Starts printing and dispensing.



Foot switch

Starts printing and dispensing.



Product sensor

For automatic product detection on the conveyor belt.



Sub-D plug

Connection of the external control signals at the applicator. Sub D plug 15-pole with screw clamps.



External panel

If the external panel is not accessible anymore, e.g. after installation within a facility, it is possible to install an external panel. Additionally there is a slot for a CF memory card Type I and a USB Master interface.

Base frame



The base frame is customized according to the special requirements regarding width and height. The print and apply system is fixed with two pins. The exact position is adjusted on the crossbar.

Roll-on application for cylindrical products



Application of round products up to 40 mm diameter. The product is pushed onto the rolls. The application is started via present trigger or foot switch.

Demand module for roll-on application



Application of packaging on the conveyor belt. The conveyor speed has to be synchronized to the print speed. Labels with a width up to 116 mm and a length up to 200 mm can be processed. Further technical details on request.











Stand



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 chassis provide its mobility. The stand is adjusted at the place of installation with adjustable feet.










Stand	
Total height mm	1.600
Height of appliance mm	1.400
Projection until middle of label mm	230 - 500
Chassis W x D x H mm	600 x 860 x 140














	Part No.	Hardware	dpi	Part No.	Consumables	Part No.	Consumables		
	5954511	Label printer A2+ /	300	5954105.001	Printhead 2/300	5954102.001	Print roller DR2		
	5954512	Label printer A2+ /	300P						
	5954575	Label printer A2+ /	600	5958686.001	Printhead 2/600			5954104.001	Rewind assist roller RR2
	5954578	Label printer A2+ /	600P						
	5954500	Label printer A4+ /	200	5954081.001	Printhead 4/203	5954180.001	Print roller DR4		
	5954505	Label printer A4+ /	200P						
	5954501	Label printer A4+ /	300	5954072.001	Printhead 4/300				
	5954506	Label printer A4+ /	300P						
	5954502	Label printer A4+ /	600	5954077.001	Printhead 4/600			5954183.001	Rewind assist roller RR4
	5954507	Label printer A4+ /	600P						
	5954552	Label printer A4+M /	300	5954072.001	Printhead 4/300				
	5954554	Label printer A4+M /	600	5954077.001	Printhead 4/600				
	5954587	Label printer A6+ /	200	5954217.001	Printhead 6/200	5954245.001	Print roller DR6		
	5954588	Label printer A6+ /	200P						
	5954513	Label printer A6+ /	300	5954106.001	Printhead 6/300			5954246.001	Rewind assist roller RR6
	5954514	Label printer A6+ /	300P						
	5954517.101	Label printer A8+ / with metal cover	300	5954107.001	Printhead 8/300	5954103.001	Print roller DR8		
	5959640	Label printer XD4M /	300	5954072.001	Printhead 4/300	5954180.001	Print roller DR4		
	59545xx.102	Printer with RFID Read/Write unit 13,56 MHz		Content 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 (only A+-Series), Operating manual de/en (XD4M), 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 (only A+-Series), Linux driver de/en/fr (only A+-Series), Label software cablabel R2+ in 24 languages, Database Connector en		
	59545xx.101	Printer with metal cover for A4+ / A4+M / or A6+							
	59545xx.103	Printer with metal cover and RFID Read/Write unit 13,56 MHz for A4+ / A4+M / or A6+							
	595xxxxx	Thermal direct printer on request							



Overview	Basic device	Dispensing	A2+	A4+	A4+M	A6+	A8+	XD4M
1. Metal cover	●	●	-	□	□	□	■	■
2. Cutter CU	●	●	□	□	□	□	□	□
3. Perforation cutter PCU4	●	●	-	□	□	-	-	□
4. Cutter tray	●	●	-	□	□	-	-	-
5. Stacker with cutter ST4/M	●	●	-	-	□	-	-	□
6. Stacker with cutter ST4/L	●	●	-	□	-	-	-	-
7. Adapter 100 mm Ø	●	●	□	□	□	□	□	-
8. Tear-off plate	●	●	□	□	□	□	-	-
9. Rewind guide plate for internal rewinding	-	●	□	□	-	-	-	-
10. Tester for linear Barcodes	●	●	□	□	□	□	-	-
11. External rewinder for direct connection to the printer	●	●	□	□	-	□	□	-
12. External rewinder with own power supply	●	●	□	□	□	□	□	-
13. External unwinder for rolls up to 300 mm Ø	●	●	□	□	-	□	□	-
14. Peel-off adapter PS5 for automatic operation	-	●	□	□	-	□	-	-
15. Present sensor PS6 for manual/automatic operation	-	●	□	□	-	□	-	-
16. Pause adapter PS7 - interrupt print job	●	●	□	□	□	□	□	-
17. Present sensor PS8 for manual operation	-	●	□	□	-	□	-	-
18. Present sensor PS9 - customer specific	-	●	□	□	-	□	-	-
19. Extended peel-off plate	-	●	□	□	-	□	-	-
20. External operation panel	●	●	□	□	□	□	□	-
21. Compact keyboard	●	●	□	□	□	□	□	□
22. Standard keyboard	●	●	□	□	□	□	□	□
23. Memory card	●	●	□	□	□	□	□	□
24. Applicator A1000-300	-	●	□	□	-	□	-	-
25. Roll-on application for cylindrical products	-	●	□	□	-	-	-	-
26. Demand module for roll-on application	-	●	□	□	-	-	-	-

● Models ■ Standard □ Option

Part No.	Accessories
 1.	5954012.001 Metal cover A4+ 5954013.001 Metal cover A6+
 2.	5948382 Cutter CU2 5948000 Cutter CU4 5948001 Cutter CU6 5948002 Cutter CU8
 3.	5960050.351 Perforation cutter PCU4/2.5 5960050.352 Perforation cutter PCU4/10
 4.	5946995 Cutter tray 4
 5.	5541311 Stacker with cutter ST4/L
 6.	5541313 Stacker with cutter ST4/M
 7.	5959622 Adapter 100
 7.	55xxxxx Storage table ST4/L, label B x H 55xxxxx Storage table ST4/M, label B x H
 8.	5958932 Base frame A4 5959920 Base frame XD
8.	5954296.001 Tear-off plate TP2 5946244.001 Tear-off plate TP4 5946414.001 Tear-off plate TP6

Part No.	Accessories
 9.	5954108.001 Rewind guide plate RG2 for internal rewinding 5954190.001 Rewind guide plate RG4 for internal rewinding
 10.	on request 5570820 Barcode tester hI40-2 5570825 Barcode tester hI40-4 5570825 Barcode tester hI40-6
 11.	5948102 External rewinder ER1/210 5943251 External rewinder ER2/210 5945802 External rewinder ER3/210
 12.	5948100 External rewinder ER4/210 5946090 External rewinder ER4/300 5946420 External rewinder ER6/300 5945804 External rewinder ER8/300
 13.	5946091 External unwinder EU4/300 5946421 External unwinder EU6/300 5945806 External unwinder EU8/300
	5948170 Connection set for ER/EU
 14.	5946120 Peel-off adapter PS5 automatic operation
 15.	5942353 Present sensor PS6 manual/automatic operation

	Part No.	Accessories
	16. 5946146	Pause adapter PS7
	17. 5946900	Present sensor PS8 manual operation
	18. on request	Present sensor PS9
	19. 5948830	Extended peel-off plate
	20. 5954380.001	External operation panel
	21. 5901630	Compact keyboard USB, Cherry G84-4100
	22. 5901626	Standard keyboard USB, Cherry G83-6105
	23. 5561043	Memory card CompactFlash Typ I
	Part No.	Applicators with accessories
	24. 5949001 5949002 5949003	Applicator A1000-220 Applicator A1000-300 Applicator A1000-400
	5949072	Universal tamp pad A1021 70 x 60
	5949075	Universal tamp pad A1021 90 x 90
	5xxxxxx	Tamp pad A1021 B x H
	5949076	Universal tamp pad A1321 116 x 102
	5949077	Universal tamp pad A1321 116 x 152
	5xxxxxx	Tamp pad A1321 B x H
	5xxxxxx	Blow pad A2021 B x H
	5xxxxxx	Roll-on pad
	25. on request	Roll-on application for cylindrical products
	26. on request	Demand module

	Part No.	Accessories applicators
	5533240	Testbox 2 Automatic operation
	5942345	Present trigger TR1
	5535901	Foot switch
	5941526	Photo sensor to start
	5917652	Interface connector SUB-D-plug 15 pole Phoenix Contact 2761606
	5949093 5xxxxxx	Base frame 340 x 160 Base frame B x H
	5947400	Stand1600
	8913693	Printer holder
	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
	Content of delivery	Label software cablabel R2+
	on request	Codesoft, NiceLabel, Easylabel
	9008486	Programming manual English, printed copy

The cab delivery program

Label printer A+ series



Label printer XD4 for double sided printing



Label printer XC6 for two-tone printing



Label printer e4



Label printer MACH4



Labels / Ribbons



Label dispenser HS150



Print and Apply Hermes+



Print module PX-series



Label software



Laser marking systems FL-series



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- cab subsidiaries
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