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Hermes +

cab

Print and Apply System Hermes+

Made in Germany

For current data,
please refer to our website
www.cab.de/en/hermesplus

Scan the QR-code with your smartphone
to get more information about the cab
Print and Apply System Hermes+.

Contents

Overview types label printer Hermes⁺

Hermes⁺ is designed for automated print and apply processes in production lines. Different applicators allow the label to be applied via roll-on, blow-on or tamp-on to a product or packaging.

The Sleek
For small labels with high printing accuracy.

1.1 Label printer	Hermes⁺ 2	
Print resolution dpi	300	600
Print width up to mm	54.2	57
Print speed up to mm/s	150	100
Label roll Ø mm	205 / 305	
Label width up to mm	58	

The Universal
Our top-seller with high printing accuracy and an extensive range of accessories.

1.2 Label printer	Hermes⁺ 4		
Print resolution dpi	203	300	600
Print width up to mm	104	105.6	105.6
Print speed up to mm/s	250	250	100
Label roll Ø mm	205 / 305		
Label width up to mm	114		

The Wide
Ideal for Odette, UCC and GS1 labels.

1.3 Label printer	Hermes⁺ 6	
Print resolution dpi	203	300
Print width up to mm	168	162.6
Print speed up to mm/s	200	200
Label roll Ø mm	205 / 305	
Label up to mm	174	

Overview types label printer Hermes+

Hermes+ 2

Label reel Ø 205 mm

Hermes+ 2
Hermes+ 4
Hermes+ 6

Label roll Ø 205 mm

Hermes+ 2
Hermes+ 4
Hermes+ 6

Label roll Ø 305 mm

Hermes+ L

Dispensing direction to the left

Hermes+ R

Dispensing direction to the right

Hermes+ 2
Hermes+ 4   for rolls Ø
Hermes+ 6   up to 205 mm

Cover protecting the device from dirt

Technical details

1   **Large graphic display**

White backlight for optimum readability.
Depending on the installation position the display may be turned in steps of 90°.

2   **Navigator pad**

Simple, interactive menu control. The day and night design only displays applicable functions. Along with the graphic display menu navigation is made easy to understand.

3   **Ribbon holder**

Simple and centered insertion of the ribbon with the three-part tightening axles.

4   **Solid metal chassis**

Made of die-cast aluminum providing a basis for the assembly of all components.

5   **Assembly applicator**

The applicator is mounted on hinges and allows easy removal for maintenance.

6   **Print positioning**

After having exchanged the label roll the print position is automatically set after a few printed labels. The label position is kept, even if the machine is switched off.

7   **Printhead**

The printhead may be exchanged in just a few steps. And no need of doing adjustments and settings.

8   **Ribbon saver**

Is used for labels to be partially printed.
The printhead is lifted within the unprinted area and the ribbon stopped during label feeding.

9   **Transport system**

The ball bearing mounted rollers for highly accurate print and precise label feeding.

10   **Label unwinder**

Swing lever and integrated brake make sure that the labels are unwound with constant tension.
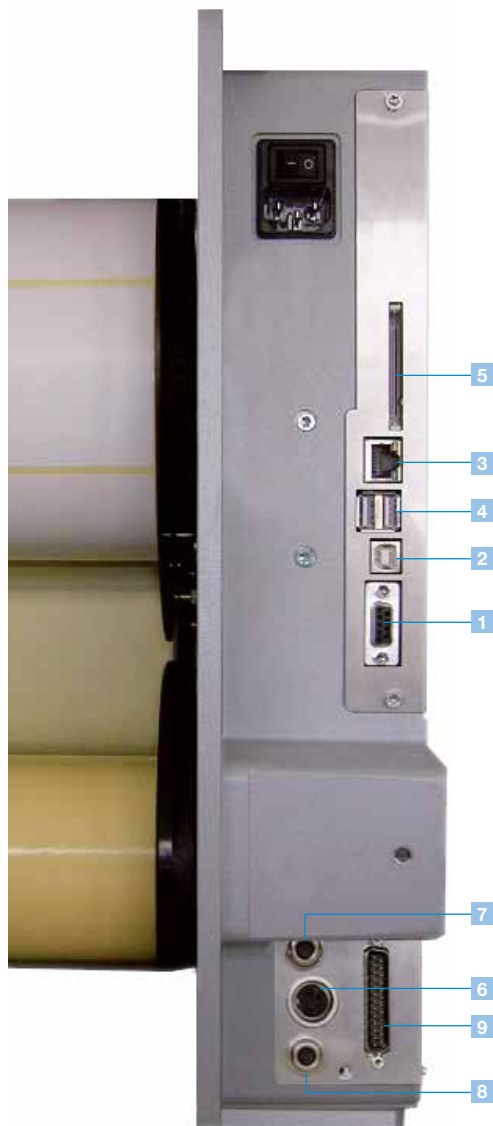
11   **Rewinder**

The liner of a label roll is completely rewound after the labels have been peeled off. The three-part tightening axis enables an easy exchange of the roll.

Print direction

All Hermes+ label printers with applicators are available with left and right print direction.

All required interfaces

1. RS232C- interface

2. USB 2.0 Slave interface

3. Ethernet 10/100 Base T-interface with TCP/IP

4. Two USB-Master-interfaces for connection of an external operation panel, keyboard, scanner or service key

5. Slot for memory card CompactFlash Type I

6. Connection warning light

   Displays the printer status
   Green   Device switched on
   Yellow   Prewarning end of label, end of ribbon
   Red   Error

7. Connection main valve for air pressure supply:
   For centrally switching the compressed air supply on/off

8. Connection external E-stop
   In connection with a main valve this interface allows to cut-off the compressed air supply in case of emergency

9. Digital I/O interface
   25-pin SUB-D connector
   All 24V in- and outputs are optically isolated

Inputs	Outputs
Start printing and applying	Ready to operate
Reprint	Print data available
Label feed	Paper feed on
Delete print job	Prewarning end of ribbon
Pause	Prewarning end of label
Label dispensed	Error end of ribbon
Reset	Error end of label
Stop printing and applying	Label in dispensing position
Print first label	Basic position / upper end position
Label rotating 90°	Applying position / lower end position
(Applicator 4214)	Common alarm

Options

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

Label selection box-I/O-box. Via PLC up to 16 different labels can be selected from the memory card. Control may also be to four in-/outputs via Basic Interpreter.

Technical data

Label printer		1.1 Hermes+ 2		1.2 Hermes+ 4			1.3 Hermes+ 6	
Print head								
Print method		Thermal transfer/thermal direct						
Print resolution	dpi	300	600	203	300	600	203	300
Print speed up to	mm/s	150	100	250	250	100	200	200
Print width up to	mm	54.2	57	104	105.6	105.6	168	162.6
Material								
Labels on rolls or reel Hermes+ 2		Paper, plastics such as PET, PE, PP, PVC, PU, acrylate, PI						
Thickness mm/weight	g/m²	0,055–0,35/60–160						
Width labels[1]	mm	4–58		10–114			50–174	
Width liner roll	mm	24–62		24–118			54–178	
reel	mm	10–62		—			—	
Label height[1] when dispensing	mm	4–200		8–320			25–320	
Media roll: Outside Ø up to mm		205/305						
Core Ø mm roll / adapter		40/50		40/50			—	
roll		76		76			76	
Winding		outside or inside						
Ribbon								
Ink		outside or inside						
Roll diameter	up to mm	80		80			80	
Core diameter	mm	25		25			25	
Ribbon length variable	up to m	500		500			500	
Width[2]	mm	60		114			165	
Ribbon saver		–		☐			☐	
Internal rewinder								
Total diameter	up to mm	155/210						
Core diameter	mm	76		76			76	
Dimensions printer								
Height mm Label roll Ø 205 mm		400						
Label roll Ø 305 mm		538						
Depth mm Label roll Ø 205 mm		400						
Label roll Ø 305 mm		518						
Width	mm	200		255			315	
Weight	kg	15		16			20	
Label sensor								
Gap sensor		for leading edge or punch marks and end of material						
Reflective sensor from the bottom or from the top		for print marks						
Distance to locating edge	mm	2–26		2–47			2–47	
Electronics								
Processor high speed 32 Bit Clock rate MHz		266						
RAM MB		64						
Memory IFFS MB Flash		8						
Slot for CompactFlash Type I memory card		■						
Battery buffer for real-time clock, printout of time and date, data storage on shut-down		■						
Warning signal: acoustic signal in case of error		■						
Interfaces								
Centronics bi-directional acc. to IEEE 1284		☐						
RS232 C 1.200 up to 230.400 baud/8 bit		■						
USB 2.0 High Speed Slave for PC-connection		■						
Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP		■						
RS422, RS485 1.200 up to 230.400 Baud/8 bit		☐						
2x USB Master for external operation panel, keyboard, scanner or service key		■						
Connection warning light		■						
Digital I/O-interface		■						
Connection cab applicator		■						
Connection external emergency stop		■						
Main valve for air-pressure supply		■						
Operating data								
Power supply		100–240 VAC ~ 50/60 Hz, PFC						
Power consumption		max. 300 W						
Temperature / Humidity: Operation:		+ 5 - 40°C / 10 - 85% not condensing						
Storage:		+ 0 - 60°C / 20 - 80% not condensing						
Transport:		− 25 - 60°C / 20 - 80% not condensing						
Approvals		CE, FCC class A, CB, CCC, UL						

[1] The label size is in addition defined through the type of the applicator.
  Limitations may apply to small labels, thin materials or strong adhesives. Critical applications need to be tested and approved.
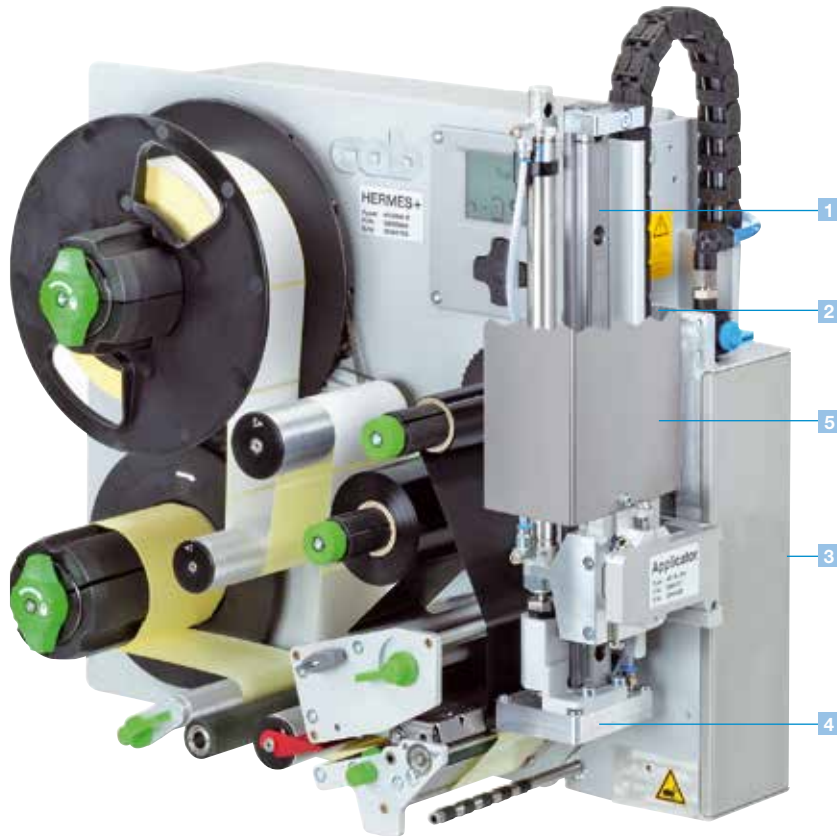[2] The ribbon should roughly be the same width as the label in order to avoid folding.

Technical data

Operation panel	
Buttons / LED-display	Pause, Feed, Cancel, Menue, Enter, 4 x Cursor
LCD-graphic display	Width 60, Height 40 mm, text 4 lines, about 20 characters per line

Settings	
	Time, date, digital or analog clock 25 language settings system settings, print parameters, interfaces, security

On the Display	
	Data reception — Clock WLAN field intensity — Date sheet Ethernet state — abc debug Use memory — Input buffer Temperature printhead — Remaining quantity of ribbon Access to memory card

Monitoring	
Stop printing if:	End of ribbon End of labels Printhead open
Warning if:	End of ribbon End of labels

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

Fonts	
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 internally available, loadable TrueType fonts. Thai and Chinese (simplified Chinese) available as option.
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic characters are supported. Thai and Chinese available as option.
Bitmap fonts	Size of width and height 1-3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°
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, inverse, depending on character fonts
Font width	Variable

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

Barcodes	
Linear barcodes	Code 39, Code 93 — Interleaved 2 / 5 Code 39 Full ASCII — Ident- and lead code of Code 128 A, B, C — Deutsche Post AG EAN 8, 13 — Codabar EAN / UCC 128 — JAN 8, 13 EAN / UPC Appendix 2 — MSI EAN / UPC Appendix 5 — Plessey FIM — Postnet HIBC — 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 und stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar
	All codes are variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on type of code.

Software		
Programming	J-Script direct programming	■
	abc-Basic Compiler	■
	Database Connector	■
System diagnosis/ administration	Printer monitoring	■
	Network Manager	□
Label software	cablabel® S3 Light	■
	cablabel® S3 Viewer	■
	cablabel® S3 Pro	□
	cablabel® S3 Print	□
Windows driver certified	32/64 bit for Windows XP — Server 2003 Windows Vista — Server 2008 Windows 7 — Server 2008 R2 Windows 8 — Server 2012 Windows 8.1 — Server 2012 R2	■
Mac driver	OS X printer driver from version 10.6	■
Linux driver	32/64 Bit from CUPS 1.2	■
Stand-alone-operation		■

Applicators

1 **Long service life**
The linear ball-bearing guides are precise and low-wearing.

2 **Variable product heights**
The lifting cylinder allows labeling at different heights. Standard stroke heights are available in 200 / 300 / 400 mm of length. Others are available on request.

3 **High process reliability**
Supporting air jet stream, suction air and lifting speed may be adjusted and are controlled via sensors.

4 **Real time labeling**
Applicators for small and big labels. Label with a height of 4–250 mm and a width of 4–174 mm can be applied.

5 **Protective cover**
As a standard, cylinder and guide are protected by a cover. For labeling work stations protective covers are available that are adapted to the product jig.

6 **Pivot applicator**
Easy and fast access to the printer's mechanics for material change or maintenance.

Compressed air regulator
Reduces the pressure force of the lifting cylinder on the product.

Overview applicators and transfer modules

No.	Applicators	Hermes+ 2	Hermes+ 4	Hermes+ 6	Universal pad (11)	Tamp pad (11)	Tamp pad with damping pad (12)	Tamp pad with label stop (61)	Blow pad (21)	Silicone form pad (88)	Spring-mounted universal pad (31)	Spring-mounted tamp pad (31)	Roll-on pad (41)	Corner-wrap pad (51)	Peel-off plate (—)	Vacuum belt (—)	Air-jet module (90)	
			Order code		11	11	12	61	21	88	31	31	41	51	—	—	90	
5.1	Swing applicator		3214		—	F	F	F	□	—	—	—	—	—	—	—	—	Product labeling
5.2	Stroke applicator		4114		—	F	F	F	□	□	—	—	—	—	—	—	—	
5.3	Stroke-turn applicator		4214		—	F	F	F	□	—	—	—	—	—	—	—	—	
5.4	Stroke applicator		4414		—	F	F	F	—	—	—	—	—	—	—	—	—	
5.5	Swing-stroke applicator		4514		—	—	—	—	□	—	—	—	—	—	—	—	—	
5.6	Flag applicator		4714		—	□	—	—	—	—	—	—	—	—	—	—	—	
5.7	Front-side applicator		3014		—	□	—	—	□	—	—	□	—	—	—	—	—	Labeling of packaging
				3016	—	□	—	—	—	—	—	□	—	—	—	—	—	
5.8	Stroke applicator		4014		□	F	—	—	□	—	□	□	□	□	—	—	—	
				4016	—	□	—	—	—	—	—	□	□	—	—	—	—	
5.9	Stroke-blow applicator		4614		—	—	—	—	□	—	—	—	—	—	—	—	—	
5.10	Demand module		5114		—	—	—	—	—	—	—	—	—	—	□	—	—	
5.11	Vacuum-belt applicator		5314	5316	—	—	—	—	—	—	—	—	—	—	—	□	—	
5.12	Air-jet box		6014		—	—	—	—	—	—	—	—	—	—	—	—	□	

Type code applicator — 4414L-200

Type		**441**
for label printer	Hermes+2	**2**
	Hermes+4	**4**
	Hermes+6	**6**
Label direction	to the left	**L**
	to the right	**R**
Cylinder stroke		**200**
		300
		400

F Immersion depth of pad in mm*

*Allows the immersion of the tamp pad into the surface of the label.

Product marking

Swing applicator 3214

5.1

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Tamp pad with damping pad
The damping pad is used to reduce noise produced by hard surfaces and is specially suitable for surfaces with rough structure or slightly uneven.

Tamp pad with label stop
For applying small labels the label stop ensures a very precise positioning onto the product.

Blow pad
For pressure-sensitive surfaces or products in motion. The labels are applied via air jet onto the product. The distance of 5-10mm to the product surface is set with a stop at the stroke cylinder.

For precise real-time labeling of very small to medium sized labels. Preferred method is to apply the labels from the side. The pad is positioned in front of the peel-off plate. The label is held by the applicator during the printing process.
A rotating cylinder turns to the labeling position.
The label is positioned onto the product via stroke cylinder.
Pivoting angle and linear stroke are adjustable.
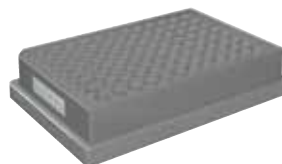
Technical data			Tamp pad	Tamp pad with damping pad	Tamp pad with label stop	Blow pad
			3214 L/R 11 F	3214 L/R 12 F	3214 L/R 61 F	3214 L/R 2100
Label width	Hermes⁺2	mm	4–58	10–58	10–58	10–58
	Hermes⁺4	mm	10–114	10–114	10–114	10–80
Label height	Hermes⁺2	mm	5–80	8–80	5–80	10–80
	Hermes⁺4	mm	8–80	8–80	8–80	10–80
Product	not in motion during labeling		■	■	■	■
	in motion during labeling		–	–	–	■
Labeling onto the product	from the side		■	■	■	■
Product height	fixed		■	■	■	■
Distance of product to peel-off plate		mm	250–280	250–280	250–280	250–280
Horizontal linear guides		mm	5–30	5–30	5–30	5–30
Pivoting angle			45°–95°	45°–95°	45°–95°	45°–95°
Immersion depth pad F	up to mm		30	30	30	–
Air pressure supply		bar	4,5	4,5	4,5	4,5
Cycle time[1]	approx. cycles/min.		20	20	20	20

[1] Calculated at label height 40 mm, print speed 100 mm/s

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Product marking

Stroke applicator 4114

5.2

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Tamp pad with damping pad
The damping pad is used to reduce noise produced by hard surfaces and is specially suitable for surfaces with rough structure or slightly uneven.

Tamp pad with label stop
For applying small labels the label stop ensures a very precise positioning onto the product.

Blow pad
For pressure-sensitive surfaces or products in motion. The labels are applied via air jet onto the product. The distance of 5-10mm to the product surface is set with a stop at the stroke cylinder.

For precise real-time labeling of very small to medium sized labels. Labels may be applied on the product from all sides.
The pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process.
A short stroke cylinder moves the label horizontally to the labeling position and places the label on the product. The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data			Tamp pad	Tamp pad with damping pad	Tamp pad with label stop	Blow pad
			4114 L/R 11 F	4114 L/R 12 F	4114 L/R 61 F	4114 L/R 2100
Label width	Hermes$^+$2	mm	4–58	10–58	10–58	10–58
	Hermes$^+$4	mm	10–114	10–114	10–114	10–114
Label height	Hermes$^+$2	mm	4–80	8–80	4–80	10–80
	Hermes$^+$4	mm	8–80	8–80	8–80	10–80
Product	not in motion during labeling		■	■	■	■
	in motion during labeling		–	–	–	■
Labeling onto the product	from top		■	■	■	■
	from below		■	■	■	■
	from the side		■	■	■	■
Product height	fixed		–	–	–	■
	variable		■	■	■	–
Horizontal short stroke cylinder		mm	10	10	10	10
Product distance to lower edge at cylinder stroke	200	up to mm	135	135	135	140
	300	up to mm	235	235	235	240
	400	up to mm	335	335	335	340
Immersion depth pad F[2]		up to mm	100	100	100	–
Air pressure supply		bar	4,5	4,5	4,5	4,5
Cycle time[1]		l approx. cycles/min.	30	30	30	30

[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] If immersion depth at applicator > 25 mm, the cover of the Hermes$^+$ has to be modified.

Product marking

Stroke applicator 4114

5.2

Silicone form pad
Labels are precisely applied on cylindrical bodies, curved and inclined surfaces. Curved silicone form pads are used to avoid blistering on very smooth and flat surfaces. Cylindrical bodies may be wrapped up to 200°.

For precise real-time labeling of very small to medium sized labels. Labels may be applied on the product from all sides.
The pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process.
A short stroke cylinder turns the tamp pad horizontally into the labeling position and places the label onto the product.
The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data			Silicone form pad
			4114 L/R 8800
Label width	Hermes$^+$2	mm	10−58
	Hermes$^+$4	mm	10−114
Label height		mm	8−80
Product	not in motion during labeling		∎
	in motion during labeling		−
Labeling onto the product	from top		∎
	from below		∎
	from the side		∎
Product height	variable		∎
Horizontal short stroke cylinder		mm	10
Product distance to lower edge			
at cylinder stroke	200	up to mm	135
	300	up to mm	235
	400	up to mm	335
Air pressure supply		bar	4,5
Cycle time[1]		approx. cycles/min.	20

[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
If height of silicone form pad > 25 mm, the cover of the Hermes$^+$ has to be modified.

Product marking

Stroke-turn applicator 4214

5.3

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Tamp pad with damping pad
The damping pad is used to reduce noise produced by hard surfaces and is specially suitable for surfaces with rough structure or slightly uneven.

Tamp pad with label stop
For applying small labels the label stop ensures a very precise positioning onto the product.

Blow pad
For pressure-sensitive surfaces or products in motion. Labels are applied via air jet onto the product. The distance of 5-10mm to the product surface is set with a stop at the stroke cylinder.

For precise real-time labeling of very small to medium sized labels in case of difficult installation positions. Labels may be applied on the product from all sides.
The pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process.
A rotating cylinder turns the label horizontally and up to 180° into the labeling position and places the label on the product.
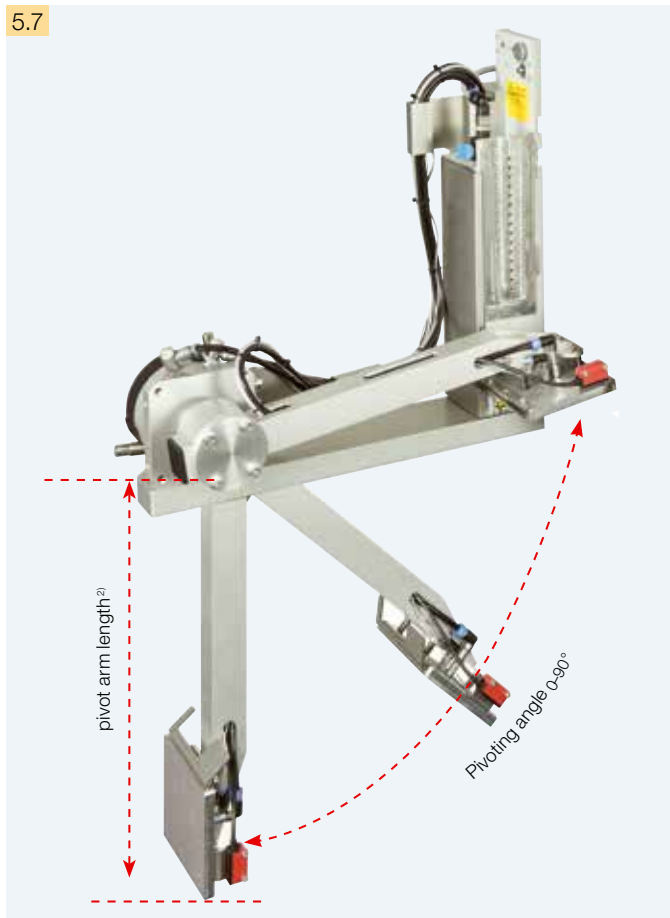The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data			Tamp pad	Tamp pad with damping pad	Tamp pad with label stop	Blow pad
			4214 L/R 11 F	4214 L/R 12 F	4212 L/R 61 F	4214 L/R 2100
Label width	Hermes$^+$2	mm	4–58	10–58	10–58	10–58
	Hermes$^+$4	mm	10–80	10–80	10–80	10–80
Label height	Hermes$^+$2	mm	4–40	8–40	4–40	10–40
	Hermes$^+$4	mm	8–40	8–40	8–40	10–40
Product	not in motion during labeling		■	■	■	■
	in motion during labeling		–	–	–	■
Labeling onto the product	from top		■	■	■	■
	from below		■	■	■	■
	from the side		■	■	■	■
Product height	fixed		–	–	–	■
	variable		■	■	■	–
Horizontal pivoting angle	90°, 180°, 0°		■	■	■	■
Product distance to lower edge						
at cylinder stroke 200		up to mm	135	135	135	140
300		up to mm	235	235	235	240
400		up to mm	335	335	335	340
Immersion depth pad F[2]		up to mm	65	65	65	–
Air pressure supply		bar	4,5	4,5	4,5	4,5
Cycle time[1]		approx. cycles/min.	20	20	20	20

[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] If immersion depth at applicator > 25 mm the cover of the Hermes$^+$ has to be modified.

Product marking

Stroke applicator 4414

5.4

For precise real-time labeling of very small to medium sized labels. Final positioning onto the product is adjustable in X- and Y direction. Labels may be applied on the product from all sides. The pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process. Two short stroke cylinders move the pad horizontally into the labeling position and place the label on the product.
The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Tamp pad with damping pad
The damping pad is used to reduce noise produced by hard surfaces and is specially suitable for surfaces with rough structure or slightly uneven.

Tamp pad with label stop
For applying small labels the label stop ensures a very precise positioning onto the product.

Technical data			Tamp pad	Tamp pad with damping pad	Tamp pad with label stop
			4414 L/R 11 F	4414 L/R 12 F	4414 L/R 61 F
Label width	Hermes+2	mm	4–58	10–58	10–58
	Hermes+4	mm	10–114	10–114	10–114
Label height	Hermes+2	mm	4–80	8–80	4–80
	Hermes+4	mm	8–80	8–80	8–80
Product	not in motion during labeling		■	■	■
Labeling onto the product	from top		■	■	■
	from below		■	■	■
	from the side		■	■	■
Product height	variable		■	■	■
Horizontal short stroke cylinder	x-direction		3–7	3–7	3–7
	y-direction		11–15	11–15	11–15
Product distance to lower edge at cylinder stroke	200	up to mm	135	135	135
	300	up to mm	235	235	235
	400	up to mm	335	335	335
Immersion depth pad F[2]		up to mm	90	90	90
Air pressure supply		bar	4,5	4,5	4,5
Cycle time[1]		approx. cycles/min.	25	25	25

[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] If immersion depth at applicator > 25 mm, the cover of the Hermes+ has to be modified

Product marking

Swing-stroke applicator 4514

5.5

Blow pad
Labels are blown onto the product via air jet with a distance of 5 – 10 mm to the product surface.

For precise real-time labeling at the inner surface of profiles and pipes. Precise position of the label is adjusted with a stop at the stroke cylinder. Labels may be applied on the product from all sides. The blow pad is positioned in front of the peel-off plate. The label is held by the applicator during the printing process. A rotating cylinder turns the pad into the labeling level. The stroke cylinder moves the label into the labeling position.

Technical data			Blow pad
			4514 L/R 2100
Label width	Hermes+2	mm	10–58
	Hermes+4	mm	10–80
Label height		mm	10–60
Product	not in motion during labeling		■
Labeling onto the product	from top		■
	from below		■
	from the side		■
Product height	fixed		■
Vertical pivoting angle			120°
Distance lower edge device to upper edge label			
at cylinder stroke	200	up to mm	150[2]
	300	up to mm	250[2]
	400	up to mm	350[2]
Air pressure supply		bar	4,5
Cycle time[1]		approx. cycles/min.	20

[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] Depending on label height

Product marking

Flag applicator 4714

front
length of flag L

diameter x π

back
length of flag L
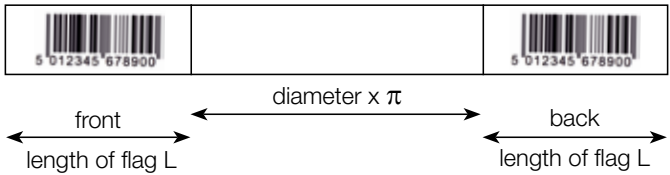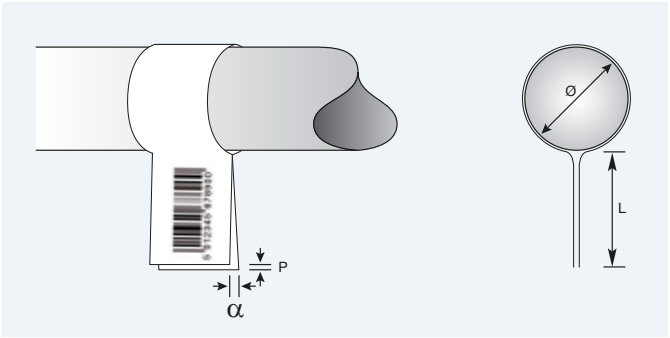
For precise real-time labeling on round materials such as cables, tubes, pipes, etc. Labels may be applied on the product from all sides. The tamp pad is positioned in front of the peel-off plate. The label is held by the applicator during the printing process. A stroke cylinder moves the label to the labeling position. Another cylinder moves the label around the round body via cam control. In doing so the label is first precisely glued together at its ends and then pressed onto the round body.
The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data		Tamp pad
		4714 L/R 1100
Label width Hermes⁺4	mm	100 – 114 (on request 60 – 100)
Label height	mm	10 – 50
Diameter	mm	3 – 20
Product not in motion during labeling		■
Labeling onto the product from top		■
from below		■
from the side		■
Product height fixed		■
Product distance to lower edge		
at cylinder stroke 200 up to mm		160
min. 70 mm 300 up to mm		260
400 up to mm		360
Immersion depth tongs	mm	55
Offset P	mm	0,5 – 1,0
Air pressure supply	bar	4,5
Cycle time[1] approx. cylces/min.		15

[1] Calculated at stroke 200 mm, print speed 100 mm/s

Packaging marking

Front-side applicator 3014 / 3016

5.7

pivot arm length[2]

Pivoting angle 0–90°

Labels are applied on the product via rotating cylinder. A sensor enables the detection of the packaging and to control the pivot arm and tamp pad moving to their initial position after labeling.

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Spring-mounted tamp pad
The spring-mounted suction plate enables labeling on inclined surfaces up to 15°. Vertical deviation can be up to 10 mm within the label area.

Blow pad
Labels are blown onto the product via air jet with a distance of 5 – 10 mm to the product surface.

For real-time labeling on packaging in motion. Preferred method is to apply the labels on the front or back of the product.
Labeling from above or from the side is possible.
The pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process.

Technical data			Tamp pad 3014/16 L/R 1100	Spring-mounted tamp pad 3014/16 L/R 3100	Blow pad 3014 L/R 2100
Label width	Hermes+4	mm	25–114	80–114	25–114
	Hermes+6	mm	25–174	80–174	–
Label height	Hermes+4	mm	8–250	80–250	10–100
	Hermes+6	mm	25–250	80–250	25–100
Product	not in motion during labeling		■	■	■
	in motion during labeling		■	■	■
Labelling onto the product	from top		■	■	■
	from the side		■	■	■
	from the front		■	■	■
	from the back		■	■	■
Product height	variable		■	■	■
Pivot arm length[1]		mm	200/300/400	200/300/400	200/300/400
Pivoting angle			0–90°	0–90°	0–90°
Air pressure supply		bar	4,5	4,5	4,5
Cycle time[1]		approx. cycles/min.	15	15	15

[1] Calculated at length pivot arm length 200 mm, label height 40 mm / print speed 100 mm/s
[2] Pivot arm length is defined as achievable label position under 90° (lower edge label format) measured from the base area of Hermes+

Packaging marking

Stroke applicator 4014 / 4016

5.8

Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

Universal pad
Labels are applied onto even surfaces. The vacuum holes providing suction to the labels are pilot holes placed in a distance of 5 mm and covered with sliding film. These are opened according to the label size using a punching tool. Two spare sliding films are included in the scope of delivery.

Spring-mounted tamp pad
The spring-mounted vacuum plate enables labeling on curved surfaces up to 15°. Vertical deviation may be up to 10 mm within the label area.

Spring-mounted universal pad
The spring-mounted vacuum plate enables labeling on curved surfaces up to 15°. Vertical deviation may be up to 10mm within the label area. The vacuum holes providing suction to the labels are pilot holes placed in a distance of 5 mm and covered with sliding film. Two spare sliding films are included in the scope of delivery.

For real-time labeling on packaging or products. According to the type of pad the product is either in or not in motion. Labels may be applied from all sides.
The pad is positioned in front of the peel-off plate. The label is held by the applicator during the printing process.
The stroke cylinder places the label onto the product. A sensor enables to detect the product and to control the tamp pad moving to its initial position after labeling. The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data			Tamp pad	Universal pad	Spring-mounted tamp pad	Spring-mounted universal pad
			4014/16 L/R 11 F	4014 L/R 1100	4014/16 L/R 3100	4014 L/R 3100
Label width	Hermes$^+$4	mm	20–114	75 / 90	80–114	116 / 116
	Hermes$^+$6	mm	50–174	–	80–174	–
Label height	Hermes$^+$4	mm	20–210	60 / 90	80–210	102 / 152
	Hermes$^+$6	mm	25–210	–	80–210	–
Product	not in motion during labeling		■	■	■	■
Labeling onto the product	from top		■	■	■	■
	from below		■	■	■	■
	from the side		■	■	■	■
Product height	variable		■	■	■	■
Product distance to lower edge at cylinder stroke	200	up to mm	135	135	130	130
	300	up to mm	235	235	230	230
	400	up to mm	335	335	330	330
Immersion depth pad F[2]		up to mm	120	–	–	–
Air pressure supply		bar	4,5	4,5	4,5	4,5
Cycle time[1]		approx. cycles/min.	25	25	25	25

[1] Calculated at stroke 100 mm below device, label height 100 mm, print speed 100 mm/s
[2] If immersion depth at applicator > 25 mm, the cover of the Hermes$^+$ has to be modified

Packaging marking

Stroke applicator 4014 / 4016

5.8

Blow pad

For pressure-sensitive surfaces or products in motion. Labels are applied via air jet onto the product. The distance of 5-10mm to the product surface is set with a stop at the stroke cylinder.

Roll-on pad

Labels are rolled on flat product surfaces during their transport.

Corner-wrap pad

Labels are applied on two adjacent product sides. The tamp pad applies the first half on top side of the product and then the second half of the label is rolled on.

For real-time labeling on packaging or products. According to the type of pad the product is either in or not in motion.
Labels may be applied from all sides.
The pad is positioned in front of the peel-off plate. The label is held by the applicator during the printing process.
The stroke cylinder places the label onto the product. A sensor enables to detect the product and to control the tamp pad moving to its initial position after labeling.
The length of the stroke cylinder defines the maximum distance from the peel-off plate to the product.

Technical data			Blow pad 4014 L/R 2100	Roll-on pad 4014/16 L/R 4100	Corner-wrap pad 4014 L/R 5100
Label width	Hermes+4	mm	20–114	25–114	20–114
	Hermes+6	mm	–	50–174	–
Label height	Hermes+4	mm	20–100	80–250	60–210
	Hermes+6	mm	–	80–250	–
Product	not in motion during labeling		■	–	■
	in motion during labeling		■	■	–
Labeling onto the product	from top		■	■	■
	from below		■	■	–
	from the side		■	■	–
Product height	fixed		■	–	–
	variable		–	■	■
Product distance to lower edge at cylinder stroke	200	up to mm	140	160	100
	300	up to mm	240	260	200
	400	up to mm	340	360	300
Air pressure supply		bar	4,5	4,5	4,5
Cycle time[1]		approx. cycles/min.	25	20	20

[1] Calculated at stroke 100 mm below device, label height 100 mm, print speed 100 mm/s

Packaging marking

Stroke-blow applicator 4614

5.9

Blow pad

Labels are blown onto the product via air jet with a distance of 5 – 10 mm to the product surface.

For real-time labeling of packaging differing in height and being in motion. Labels may be applied from all sides.
The blow pad is positioned in front of the peel-off plate.
The label is held by the applicator during the printing process.
The stroke cylinder moves the tamp pad controlled via sensor about 10 mm above the product.
The length of the stroke cylinder defines the maximum differences in height of the packaging.

Technical data			Blow pad
			4614 L/R 2100
Label width	Hermes$^+$4	mm	20 – 114
	Hermes$^+$6	mm	on request
Label height	Hermes$^+$4	mm	20 – 100
	Hermes$^+$6	mm	on request
Product	not in motion during labeling		■
	in motion during labeling		■
Labeling onto the product	from top		■
	from below		■
	from the side		■
Product height	fixed		■
	variable		■
Product distance to lower edge at cylinder stroke	200	up to mm	140
	300	up to mm	240
	400	up to mm	340
Air pressure supply		bar	4,5
Cycle time[1]		approx. cycles/min.	25

[1] Calculated at stroke 100 mm below device, label height 100 mm, print speed 100 mm/s

Packaging marking

Demand module 5114

For serial labeling of packaging
in motion. The variable guide pulley enables to adjust
the label position at the dispensing tongue.
Labels may be applied from all sides.
Printing and labeling is done simultaneously.
Speed of the conveyor belt needs to be adapted to the
print speed.
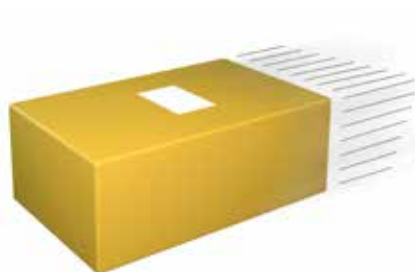
Technical data		Demand module 5114
Label width Hermes+4	mm	25–114
Label height	mm	25–250
Product in motion during labeling		∎
Labeling onto the product from top		∎
from below		∎
from the side		∎
Product height fixed		∎
Product distance to lower edge	mm	80
Product speed	mm/s	needs to correspond to the print speed / 50–250 in steps of 25
Cycle time[1] approx. cycles/min.		60

[1] Label height 100 mm, print speed 100 mm/s

Packaging marking

Vacuum belt applicator 5314 / 5316

5.11
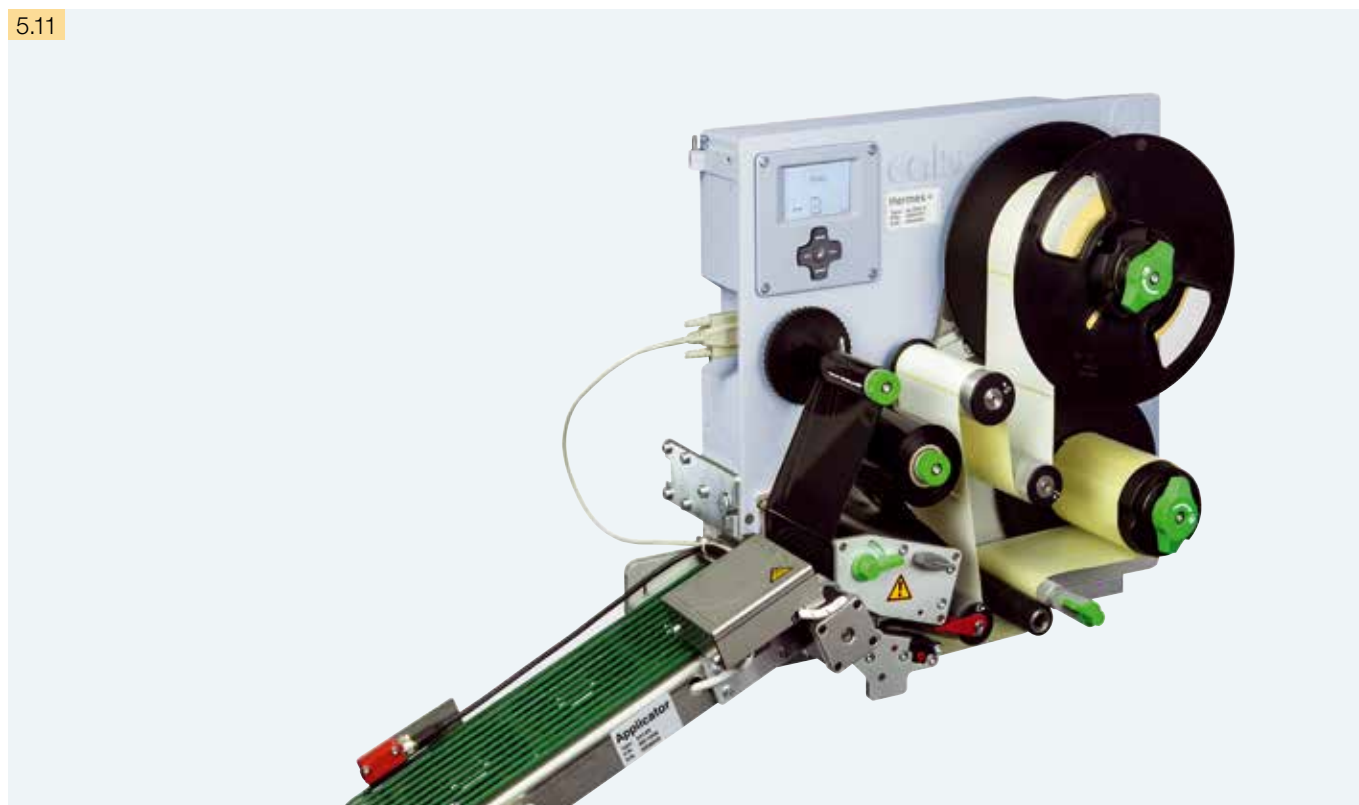
For real-time labeling
of packaging in motion.
The printed label is moved
into the labeling position via
vacuum belt and applied on the
packaging via external signal. Labels may be applied from
all sides. Printing and labeling may be done simultaneously.
The conveyor speed is not related to the print speed.

Technical data			Vacuum belt applicator 5314	Vacuum belt applicator 5316
Label width	Hermes+4	mm	20–114	–
	Hermes+6	mm	–	50–174
Label height		mm	70–320	
Product	in motion during labeling		∎	
Labeling onto the product	from top		∎	
	from below		∎	
	from the side		∎	
Product distance	fixed		∎	
Speed vacuum belt[2]		mm/s	100 / 150 / 220 / 300	
Length vacuum belt		mm	390	
Cycle time[1]	approx. cycles/min.		30	

[1] Label height 100 mm, print speed 100 mm/s

Packaging marking

Air-jet-box 6014

5.12

Air-jet module

Pre-drilled holes provide suction and blow capabilities. The blow tubes are aligned on the pad based on the label size. The outer area around the label is covered with film. The blow box pad may be easily exchanged for different label sizes.

For fast real-time labeling of packaging or products in motion. Preferred method is to apply the labels from top. Labels are sucked with a fan and blown off by nozzels via powerful air jet. Distance from lower edge of the device to the product is, according to the label size, up to 100 mm.

Technical data		Air-jet module 6014 L/R 9000
Label width Hermes$^+$4	mm	50–114
Label height	mm	50–150
Product not in motion during labeling		■
in motion during labeling		■
Labeling onto the product from top		■
from the side		■
Product height variable		■
Product distance to lower edge	mm	10–100
Air pressure	bar	4,5
Cycle time[1] approx. cycles/min.		60

[1] Calculated at label height 80 mm

Overview accessories

■ Standard □ Option

	Extras Hermes+	Hermes+2	Hermes+4	Hermes+6
2.1	Cover (only for label rolls up to 205 mm Ø)	□	□	□
2.2	External operation panel	□	□	□
2.3	Standard keyboard USB	□	□	□
2.4	Memory card CompactFlash Type I	□	□	□
2.5	Photo sensor to start 25 pole connection Hermes+	□	□	□
2.6	Photo sensor to start 3 pole connection circular connector air-jet box			
2.7	I/O Interface connector SUB-D-plug 25 pole	□	□	□
2.8	Warning light	□	□	□
2.9	Circular connector 3-pin/4-pin M8	□	□	□
	Interfaces			
3.1	Centronics bi-directional acc. to IEEE 1284	□	□	□
3.2	RS232 C 1.200 up to 230.400 baud/8 bit	□	□	□
3.3	Label selection – I/O-box	□	□	□
	Connecting cable			
4.1	Connecting cable RS232 C, 9/9-pin, length 3 m	□	□	□
4.2	Patch cable CAT 5e, length 3 m, grey	□	□	□

	Extras applicators — Type	30	32	40	41	42	44	45	46	47	60
5.13	Blow tube cpl.	□	□	□	□	□	□	□	□	□	□
5.14	Air pressure regulation unit	□	□	□	□	□	□	□	□	□	□
5.15	Air pressure regulation unit with main valve	□	□	□	□	□	□	□	□	□	□
5.16	Air pressure regulation unit with shut-off valve	□	□	□	□	□	□	□	□	□	□
5.17	Compressed air regulator	—	□	□	□	□	□	—	—	□	—

	Assembly aids	Hermes+2	Hermes+4	Hermes+6
6.1	Adapter plate	□	□	□
6.2	Profile 40 / 80 / 120 mm	□	□	□
6.3	Base plate 500 x 255	□	□	—
6.4	Mounting plate	□	□	□
6.5	Bracket	□	□	□
6.6	Clamped joint	□	□	□
6.7	Flanged joint	□	□	□
6.8	Stand 1601	□	□	□
6.9	Stand 1602	□	□	□
	Software			
7.1	J-Script direct programming	■	■	■
7.2	Replace files and integration in SAP R/3	■	■	■
7.3	abc-Basic-Compiler	■	■	■
7.4	Printer monitoring with Intra- and Internet	■	■	■
7.5	Database Connector	■	■	■
7.6	Label software cablabel® S3 Lite	■	■	■
	Label software cablabel® S3 Pro	□	□	□
	Label software cablabel® S3 Print	□	□	□
7.7	Administration Network Manager	□	□	□
7.8	Printer driver Windows	■	■	■
7.9	Printer driver Apple-MAC/Linux	■	■	■
7.10	Programmer's guide	■	■	■

Accessories

Extras Hermes+	Product
2.1	**Cover** Protecting the Hermes+ from dirt and against accidental contactoiling and contact. If the immersion depth of the applicator exceeds 25mm the cover has to be modified. The cover is approved for the vertical installation position.
2.2	**External operation panel** If the operation panel is not accessible after installation of the printer an external operation panel may additionally be connected. There is also a slot for CF Card Type 1 and USB host interface.
2.3	**Standard keyboard USB** Connection: USB, number of keys: 115
2.4	**Memory card** CompactFlash Typ I. Storing label formats, fonts, texts Graphics are read- and writeable either on the printer or on the PC
2.5	**Product sensor to start 25 pin** Connection Hermes+· Start of printing and applying after detection of a product, e.g. on a conveyor belt.
2.6	**Product sensor 3 pin** Connection applicator. Start of printing and applying after detection of a product, e.g. on a conveyor belt.
2.7	**Interface connector Sub-D plug** With screw terminals for connecting all control signals at the IO-interface Hermes+
2.8	**Warning light** Indicates the display and additionally the printer status. Red: Printing or applying error Yellow: Prewarning end of label, end of ribbon Green: Ready for operation The warning light is mounted directly at the printer, bracket or somewhere in the surrounding area. Length of connection cable 1 m.
2.9	**Circular connector** 3-pin M8 / 4-pin M8

Interfaces	Product
3.1	**Interface Centronics** bi-directional acc. to IEEE 1284
3.2	**Interface RS422/RS485** 1.200 up to 230.400 baud/8 bit
3.3	**Label selection – I/O-Box** Via PLC up to 16 different labels can be selected from the memory card.

Connecting cable	Product
4.1	**Connecting cable RS232 C** 9/9-pin, length 3 m
4.2	**Patch cable CAT 5e**, 3 m, grey

Extras Applicators	Product
5.13	**Blow tube**
5.14	**Air pressure regulation unit** It can be mounted at the Hermes+ or bracket according to angle. Presetting at 4,5 bar.
5.15	**Air pressure regulation unit** With main valve. In case of integration of the print & apply system into a production line the air-pressure for the applicator may be switched on or off externally. Presetting at 4,5 bar. Essential in combination with E-Stop switch.
5.16	**Air pressure regulation unit** Wwith additional shut-off valve to allow complete ventilation of hose lines behind the air pressure regulation unit for using the air-jet box 6014.
5.17	**Compressed air regulator** To reduce tamp force of stroke applicators.

Accessories - Assembly aids

Mounting foot

For desktop installation or integration into production lines, Available in left or right version. Size of the foot may upon request be adapted to the requirements of the application.

6.1

6.2

6.3
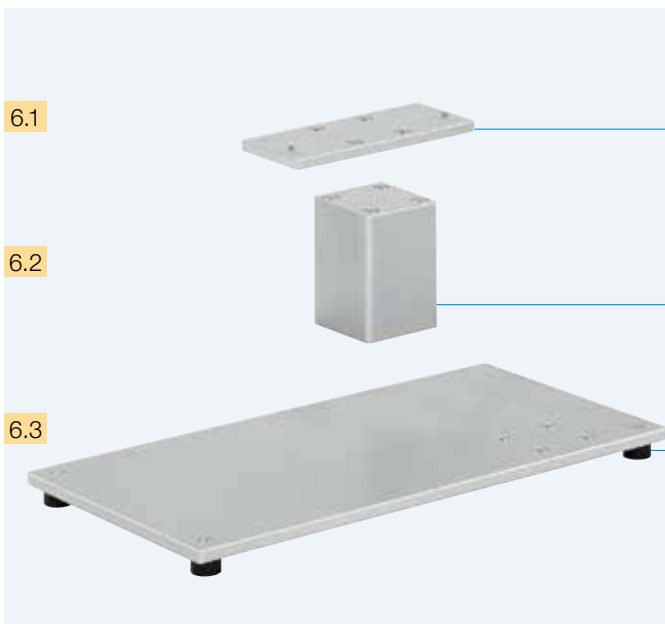
1 **Adapter plate**

The device is mounted on the adapter plate.
The printer with adapter plate may also be mounted directly at the production line by using the profile.

2 **Profile**

Standard lengths: 40, 80 and 120 mm. The aluminum square profile may also be customized in length according to the individual requirements. Other lengths on request.

3 **Base plate**

For fastening the printer holder
Standard size: 500 x 255 mm.

6.4

Mounting plate

Allows to mount the device directly at the production line.

Accessories - Mounting aid

6.5

Bracket

The Hermes+ is mounted at the stand via bracket.

6.6
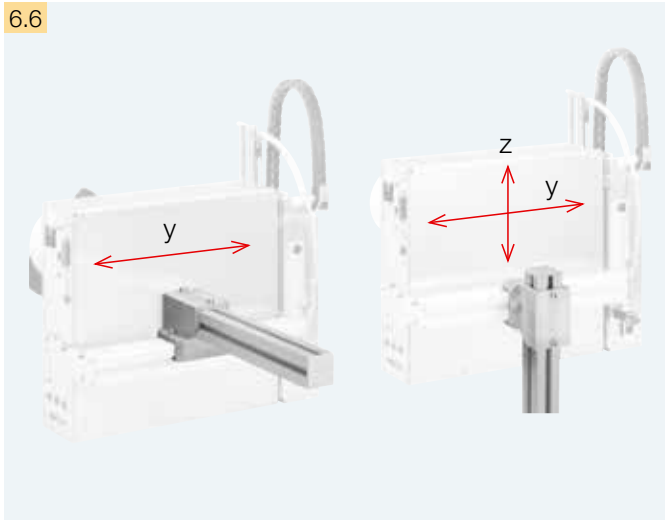
Clamped joint

Allows the device to be moved in horizontal and optionally vertical direction.

6.7
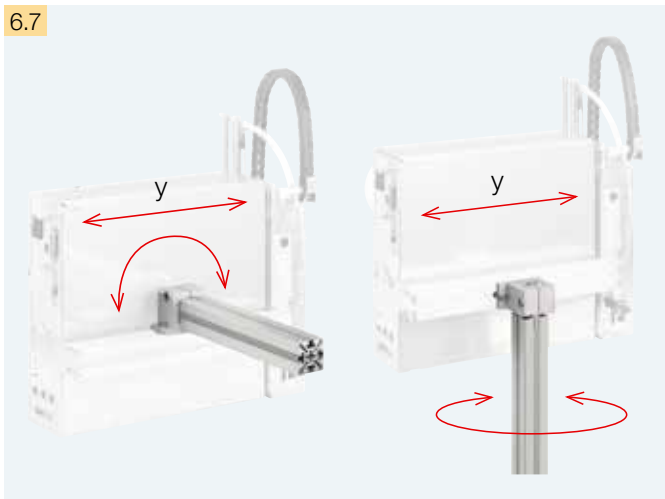
Flanged joint

Allows the device to be moved in horizontal direction or to be rotated about one axis.

Using the aluminum profile:

Profile cross-section: 50 x 50 mm
Supplier profile: Rose+Krieger
Part No.: 4.08.5000

Accessories floor stand

6.8

□ 80 mm

y

z

x

1600 mm

650 mm

910 mm
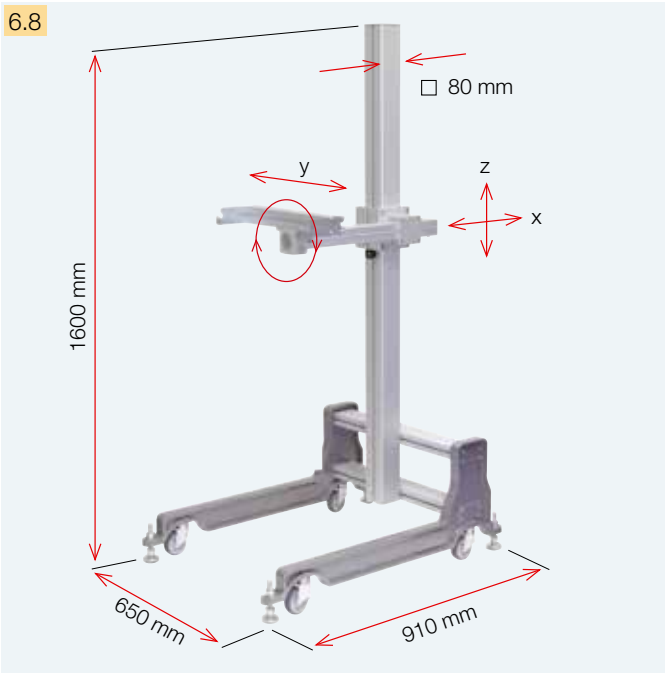
For integrating all types of labeling systems of the Hermes+ series into any manufacturing line. Due to the adjustability the Hermes+ can be positioned in 3 axes to the product to be labeled. Pivoting is also possible.

Floor stand 1601 Hermes+

Preferred for using the Hermes+ at different production lines. The floor stand is mobile and allows to be positioned and locked with adjustable feet at the place of destination.

Technical data	Floor stand 1601 Hermes+
Base frame	Guide rollers and adjustable feet
Adjustment in height Adjustment in depth	Screw clamping Screw clamping
Max. load kg at an offset of 500 mm	50
Weight kg	36

6.9

Ø 60 mm

y

z

x

1600 mm

700 mm

820 mm

Floor stand 1602 Hermes+

Preferably used if the labeling position needs to be frequently adjusted in height and depth. Due to the toothed rack adjustment the Hermes+ may be positioned in X and Y direction to the product.

Technical data	Floor stand 1602 Hermes+
Base frame	Adjustable feet
Adjustment in height Adjustment in depth	Toothed rack / crank Toothed rack / handwheel
Max. load kg at an offset of 500 mm	50
Weight kg	38

Examples printer installation

Labeling in transport direction
from top   sidewards
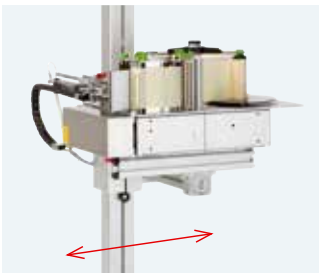
Labeling at right angles to transport direction
from top   sidewards
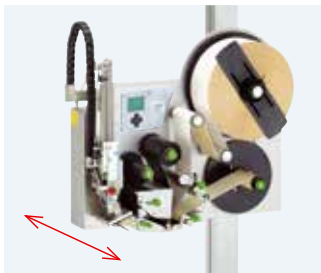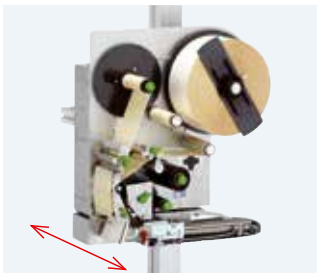
Software features of the label printer

7.1

```
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 weight 0,3 mm
A 1                            Number of labels (in this example 1)
```

Direct programming with JScript

Every cab printer can be directly programmed with the easy to understand programming language JScript. JScript is described in the programmer's guide (product range 7.10). The label software cablabel® S3 optimally supports the direct programming, but may also be generated with any other text editor.

7.2

SAP® Member
Printer Vendor Program

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

Replace files and integration in SAP R/3*

In cooperation with SAP, cab developed the replace method to control cab printers with SAPScript from SAP R/3. As a SAP partner, cab has access to the SAP development area for optimum printer support in SAP environments. With the replace method the host computer only sends data to the device that has to be changed in JScript. cablabel® S3 enables to generate all necessary replace files in combination with the label layout in one software.

SAP and all SAP logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries.

7.3

abc BASIC Compiler

As an integrated element of the firmware, the Basic Compiler enables the printer to process data via BASIC programming before it is sent for print editing. That way, you replace external printer languages or integrate data from other systems, e.g. balance or a PLC.

With cablabel® S3 you integrate the required program code easily when creating the label.

7.4

Printer monitoring with Intranet and Internet

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

7.5

Database Connector

In the stand-alone mode with additiona network connection the Database Connector allows the printer to access data directly from a central ODBC-/OLEDB compatibledatabase and to print it. At the same time, data can also be written back to the database during the printing process.
Integrating the Database Connector into cablabel® S3 allows to conveniently establish this data base connection when designing your layout.

Software tools – Label software

7.6
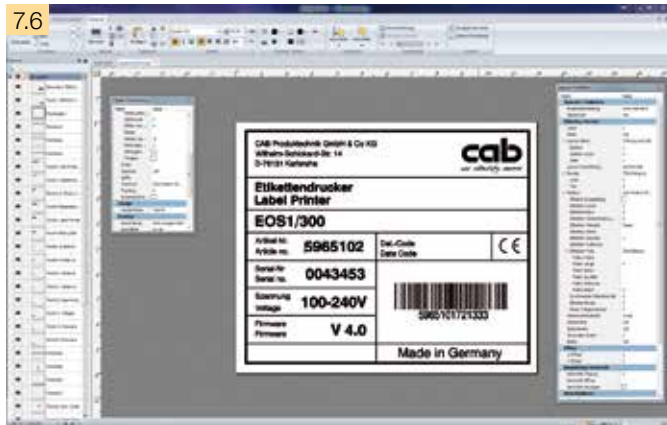
cablabel® S3 is available for the following operating systems in 32- and 64-bit version:

Windows XP Professional SP3   Windows 7 SP1
Windows Server 2003 SP2   Windows Server 2008
Windows Vista SP2   Windows 8

Terminalserver / Citrix are not supported.

cablabel® S3 is a label software that offers the following three functions:

- **Designing**
- **Printing**
- **Monitoring**

cablabel® S3 does open up the full potential of cab devices in the design of your label: An extensive instruction set is available within the intuitive user interface, e.g. different date formats, mathematic or logic functions.

In doing so, cablabel® S3 brings all cab marking systems together: First of all you design the label. You do not decide until printing whether you like the label to be dispensed on a label printer, a print and apply system or a laser marking system.

Do you like your marking system to print independently of a host system in the stand-alone mode? cablabel® S3 supports again: After having designed the label, the software supplies you with all necessary data stored within the printer for stand-alone mode.

cablabel® S3 is of modular design and can be adapted to your requirements step by step: In order to support functions like native programming with JScript, elements like JScript-Viewer are embedded as plug-in. The designer user interface and JScript code are synchronized in real time. Special functions like Database Connector or bar code tester can be easily integrated.

Software tools – Monitoring

7.7
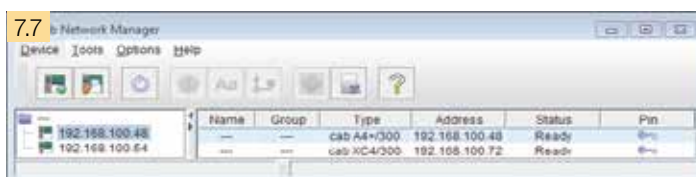
Administration Network Manager
The cab Network Manager allows the user to simultaneously control a number of printers across a network. It supports from one place monitoring, configuration, firmware updates, memory card administration, file synchronization and PIN administration.

Printer drivers

7.8 Printing Preferences
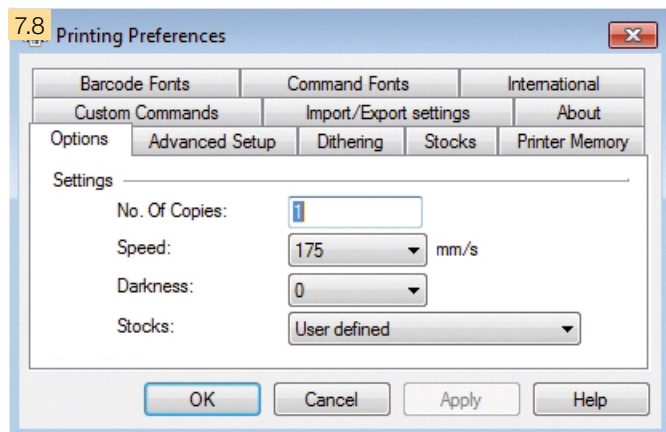
WHQL certified Windows printer drivers for

Windows XP	Windows Server 2003
Windows Vista	Windows Server 2008
Windows 7	Windows Server 2008 R2
Windows 8	Windows Server 2012
Windows 8.1	Windows Server 2012 R2

Our printer drivers are officially certified and signed by Microsoft. They ensure optimum stability on your Windows operating system. The drivers are included in the scope of delivery.

Microsoft® is a registered trademark of Microsoft Corporation.

7.9
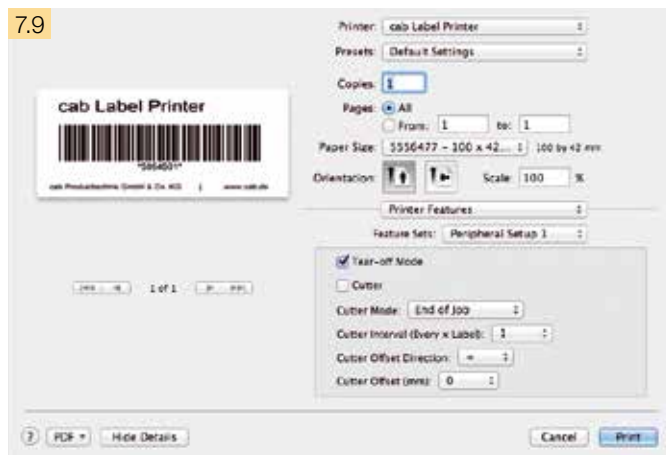
Apple-Mac OS X® driver
Alternatively, cab offers a CUPS-based printer driver for programs using Mac OS X.
The driver is available as a free download on our website www.cab.de.
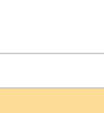
Mac OS® is a registered trademark of Apple Computer, Inc.

7.9 Print
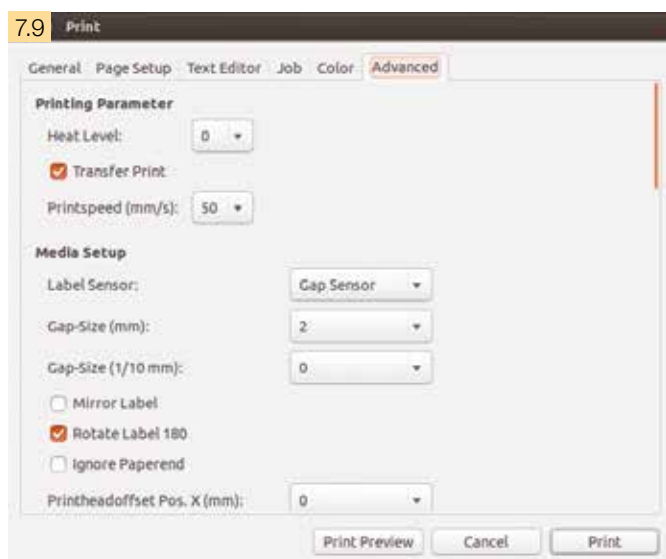
Linux driver
Alternatively, cab offers a CUPS-based printer driver for programs using Linux.
The driver is available as a free download on our website www.cab.de.

Delivery program label printer

	Part No.	Hardware L	Part No.	Spare parts	Part No.	Spare parts	Part No.	Spare parts
1.1	5955502	Label printer Hermes+ 2L/300-2	5954105.001	Print head 2/300	5954102.001	Print roller DR2	5961015.001	Drawing roller ZR2
	5955503	Label printer Hermes+ 2L/600-2	5958686.001	Print head 2/600				
1.2	5955504	Label printer Hermes+ 4L/200-2	5954081.001	Print head 4/200				
	5955505	Label printer Hermes+ 4L/300-2	5954072.001	Print head 4/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955506	Label printer Hermes+ 4L/600-2	5954077.001	Print head 4/600				
1.3	5955509	Label printer Hermes+ 6L/200-2	5954217.001	Print head 6/200				
	5955510	Label printer Hermes+ 6L/300-2	5956322.001	Print head 6/300	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6
1.1	5961410	Label printer Hermes+ 2L/300-3	5954105.001	Print head 2/300	5954102.001	Print roller DR2	5961015.001	Drawing roller ZR2
	5961411	Label printer Hermes+ 2L/600-3	5958686.001	Print head 2/600				
1.2	5955511	Label printer Hermes+ 4L/200-3	5954081.001	Print head 4/200				
	5955512	Label printer Hermes+ 4L/300-3	5954072.001	Print head 4/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955513	Label printer Hermes+ 4L/600-3	5954077.001	Print head 4/600				
1.3	5955516	Label printer Hermes+ 6L/200-3	5954217.001	Print head 6/200				
	5955517	Label printer Hermes+ 6L/300-3	5956322.001	Print head 6/300	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6

	Part No.	Hardware R	Part No.	Spare parts	Part No.	Spare parts	Part No.	Spare parts
1.1	5955752	Label printer Hermes+ 2R/300-2	5954105.001	Print head 2/300	5954102.001	Print roller DR2	5961015.001	Drawing roller ZR2
	5955753	Label printer Hermes+ 2R/600-2	5958686.001	Print head 2/600				
1.2	5955754	Label printer Hermes+ 4R/200-2	5954081.001	Print head 4/200				
	5955755	Label printer Hermes+ 4R/300-2	5954072.001	Print head 4/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955756	Label printer Hermes+ 4R/600-2	5954077.001	Print head 4/600				
1.3	5955759	Label printer Hermes+ 6R/200-2	5954217.001	Print head 6/200				
	5955760	Label printer Hermes+ 6R/300-2	5956322.001	Print head 6/300	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6
1.1	5961412	Label printer Hermes+ 2R/300-3	5954105.001	Print head 2/300	5954102.001	Print roller DR2	5961015.001	Drawing roller ZR2
	5961413	Label printer Hermes+ 2R/600-3	5958686.001	Print head 2/600				
1.2	5955761	Label printer Hermes+ 4R/200-3	5954081.001	Print head 4/200				
	5955762	Label printer Hermes+ 4R/300-3	5954072.001	Print head 4/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955763	Label printer Hermes+ 4R/600-3	5954077.001	Print head 4/600				
1.3	5955766	Label printer Hermes+ 6R/200-3	5954217.001	Print head 6/200				
	5955767	Label printer Hermes+ 6R/300-3	5956322.001	Print head 6/300	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6

Part No.	Hardware options
595xxxx.201	Label printer Hermes+ with cover[1]
595xxxx.202	Label printer Hermes+ with ribbon saver[2]
595xxxx.203	Label printer Hermes+ with cover[1] and ribbon saver[2]
on request 5961406	Label printer Hermes+ with label roll core diameter of 40 mm only for Hermes+2 and 4 adapter for core diameter 50 mm
	[1] only for label rolls up to 205 mm Ø [2] only for Hermes+4 and 6
	If the immersion depth of the applicator >25 mm, the cover of the Hermes+ has to be modified.

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: Operation manual de/en/fr,
Configuration manual de/en/fr,
Service manual de/en,
Spare part list de/en,
Programmer's guide en,
Windows printer driver 32/64 bit in 19 languages for

Windows XP	Server 2003
Windows Vista	Server 2008
Windows 7	Server 2008 R2
Windows 8	Server 2012
Windows 8.1	Server 2012 R2

Label software cablabel® S3 Lite
Label software cablabel® S3 Viewer

For current data please surf to www.cab.de

Type code

| Label printer Hermes+		4L/200-2
Label width	58 mm	**2**
	114 mm	**4**
	174 mm	**6**
Dispensing to the	left	**L**
	right	**R**
Print resolution	203 dpi	**200**
	300 dpi	**300**
	600 dpi	**600**
for print rolls Ø up to	205 mm	**2**
for print rolls Ø up to	305 mm	**3**
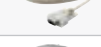
Delivery program applicators and transfer modules

		Part No.	Applicators L		Part No.	Transfer modules	
5.1		5970075	Swing applicator 3214L-40		xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping pad Tamp pad with label stop Blow pad	3214L-11 F B x H 3214L-12 F B x H 3214L-61 F B x H 3214L-2100 B x H
5.2		5966109 5966110 5966111	Stroke applicator 4114L-200 Stroke applicator 4114L-300 Stroke applicator 4114L-400		xxxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping pad Tamp pad with label stop Blow pad Silicon pad	4114L-11 F B x H 4114L-12 F B x H 4114L-61 F B x H 4114L- 2100 B x H 4114L-8800 B x H
5.3		5966117 5966118 5966119	Stroke-turn applicator 4214L-200 Stroke-turn applicator 4214L-300 Stroke-turn applicator 4214L-400		xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping pad Tamp pad with label stop Blow pad	4214L-11 F B x H 4214L-12 F B x H 4214L-61 F B x H 4214L-2100 B x H
5.4		5966133 5966134 5966135	Stroke applicator 4414L-200 Stroke applicator 4414L-300 Stroke applicator 4414L-400		xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping pad Tamp pad with label stop	4414L-11 F B x H 4414L-12 F B x H 4414L-61 F B x H
5.5		5971625 5966168 5971640	Swing-stroke applicator 4514L-200 Swing-stroke applicator 4514L-300 Swing-stroke applicator 4514L-400		xxxxxxx	Blow pad	4514L-2100 B x H
5.6		5971695	Flag applicator 4714L-300		xxxxxxx	Tamp pad	4714L-1100 B x H
5.7		5970100 5970101 5970102	Front-side applicator 3014L-200 Front-side applicator 3014L-300 Front-side applicator 3014L-400		xxxxxxx xxxxxxx xxxxxxx	Tamp pad Spring-mounted tamp pad Blow pad	3014L -1100 B x H 3014L -3100 B x H 3014L -2100 B x H
		5970103 5970104 5970105	Front-side applicator 3016L-200 Front-side applicator 3016L-300 Front-side applicator 3016L-400		xxxxxxx xxxxxxx	Tamp pad Spring-mounted tamp pad	3016L -1100 B x H 3016L -3100 B x H
5.8		5966101 5966102 5966103	Stroke applicator 4014L-200 Stroke applicator 4014L-300 Stroke applicator 4014L-400		5966147 5966148 5966149 5966150	Universal pad Universal pad Spring-mounted universal pad Spring-mounted universal pad	4014L-1100 75 x 60 4014L-1100 90 x 90 4014L-3100 116 x 102 4014L-3100 116 x 152
					xxxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Blow pad Spring-mounted tamp pad Roll-on pad Corner-wrap pad	4014L-11 F B x H 4014L-2100 B x H 4014L-3100 B x H 4014L-4100 B x H 4014L-5100 B x H / H
		5966161 5966162 5966163	Stroke applicator 4016L-200 Stroke applicator 4016L-300 Stroke applicator 4016L-400		xxxxxxx xxxxxxx xxxxxxx	Tamp pad Spring-mounted tamp pad Roll-on pad	4016L-11 F B x H 4016L-3100 B x H 4016L-4100 B x H
5.9		5971720 5971725 5971730	Stroke-blow applicator 4614L-200 Stroke-blow applicator 4614L-300 Stroke-blow applicator 4614L-400		xxxxxxx	Blow pad with height sensor	4614L-2100 B x H
5.10		5966144	Demand module 5114L				
5.11		5971650	Vacuum-belt applicator 5314L				
		5971680	Vacuum-belt applicator 5316L				
5.12		5971581	Air-jet-box 6014L		5971581 xxxxxxx	Blow module Blow module	6014 L/R universal 6014L B x H configured

Delivery program applicators and transfer modules

		Part No.	Applicators R		Part No.	Transfer modules	
5.1		5971655	Swing applicator 3214R-40		xxxxxxx	Tamp pad	3214R-11 F B x H
					xxxxxxx	Tamp pad with damping pad	3214R-12 F B x H
					xxxxxxx	Tamp pad with label stop	3214R-61 F B x H
					xxxxxxx	Blow pad	3214R-2100 B x H
5.2		5966105	Stroke applicator 4114R-200		xxxxxxx	Tamp pad	4114R-11 F B x H
		5966106	Stroke applicator 4114R-300		xxxxxxx	Tamp pad with damping pad	4114R-12 F B x H
		5966107	Stroke applicator 4114L-400		xxxxxxx	Tamp pad with label stop	4114R-61 F B x H
					xxxxxxx	Blow pad	4114R- 2100 B x H
					xxxxxxx	Silicone form pad	4114R-8800 B x H
5.3		5966121	Stroke-turn applicator 4214R-200		xxxxxxx	Tamp pad	4214R-11 F B x H
		5966122	Stroke-turn applicator 4214R-300		xxxxxxx	Tamp pad with damping pad	4214R-12 F B x H
		5966123	Stroke-turn applicator 4214R-400		xxxxxxx	Tamp pad with label stop	4214R-61 F B x H
					xxxxxxx	Blow pad	4214R-2100 B x H
5.4		5966137	Stroke applicator 4414R-200		xxxxxxx	Tamp pad	4414R-11 F B x H
		5966138	Stroke applicator 4414R-300		xxxxxxx	Tamp pad with damping pad	4414R-12 F B x H
		5966139	Stroke applicator 4414R-400		xxxxxxx	Tamp pad with label stop	4414R-61 F B x H
5.5		5966950	Swing-stroke applicator 4514R-200				
		5971460	Swing-stroke applicator 4514R-300		xxxxxxx	Blow pad	4514R-2100 B x H
		5971700	Swing-stroke applicator 4514R-400				
5.6		5971660	Flag applicator 4714R-300		xxxxxxx	Tamp pad	4714R-1100 B x H
5.7		5970106	Front-side applicator 3014R-200		xxxxxxx	Tamp pad	3014R -1100 B x H
		5970107	Front-side applicator 3014R-300		xxxxxxx	Spring-mounted tamp pad	3014R -3100 B x H
		5970108	Front-side applicator 3014R-400		xxxxxxx	Blow pad	3014R -2100 B x H
		5970109	Front-side applicator 3016R-200		xxxxxxx	Tamp pad	3016R -1100 B x H
		5970110	Front-side applicator 3016R-300		xxxxxxx	Spring-mounted tamp pad	3016R -3100 B x H
		5970111	Front-side applicator 3016R-400				
5.8					5966140	Universal pad	4014R-1100 75 x 60
					5966141	Universal pad	4014R-1100 90 x 90
					5966142	Spring-mounted universal pad	4014R-3100 116 x 102
					5966143	Spring-mounted universal pad	4014R-3100 116 x 152
		5966105	Stroke applicator 4014R-200		xxxxxxx	Tamp pad	4014R-11 F B x H
		5966106	Stroke applicator 4014R-300		xxxxxxx	Blow pad	4014R-2100 B x H
		5966107	Stroke applicator 4014R-400		xxxxxxx	Spring-mounted tamp pad	4014R-3100 B x H
					xxxxxxx	Roll-on pad	4014R-4100 B x H
					xxxxxxx	Corner-wrap pad	4014R-5100 B x H / H
		5966165	Stroke applicator 4016R-200		xxxxxxx	Tamp pad	4016R-11 F B x H
		5966166	Stroke applicator 4016R-300		xxxxxxx	Spring-mounted tamp pad	4016R-3100 B x H
		5966167	Stroke applicator 4016R-400		xxxxxxx	Roll-on pad	4016R-4100 B x H
5.9		5971735	Stroke-blow applicator 4614R-200				
		5971740	Stroke-blow applicator 4614R-300		xxxxxxx	Blow pad with height sensor	4614R-2100 B x H
		5971745	Stroke-blow applicator 4614R-400				
5.10		5966145	Demand module 5114R				
5.11		5971670	Vacuum-belt applicator 5314R				
		5971690	Vacuum-belt applicator 5316R				
5.12		5971577	Air-jet-box 6014R		5971581	Blow module	6014 L/R universal
					xxxxxxx	Blow module	6014R B x H configured

Delivery program accessories

	Part No.	Extras Hermes+	
2.1	961000.001 5961070.001 5961193.001	Cover 2L Cover 4L Cover 6L	If the immersion depth of the applicator exceeds 25mm the cover has to be modified.
	961190.001 5961187.001 5961196.001	Cover 2R Cover 4R Cover 6R	
2.2	5954380.001	External operation panel	
2.3	5901630	Standard keyboard USB German version	
2.4	5561043	Memory card CompactFlash Typ I	
2.5	5964300	Product sensor to start 25 pin Connection Hermes+	
2.6	5964300	Product sensor to start 3 pin Connection Air-jet-box	
2.7	5917651	I/O-Interface connector SUB-D-plug 25 pole Phoenix Contact No. 2761622	
2.8	5961237.001	Warning light	
2.9	5918092	Circular connector 3-pin M8	
	5918003	Circular connector 4-pin M8	

	Part No.	Interfaces
3.1	5954200	Centronics interface
3.2	5954201	RS422/RS485 interface
3.3	5954191	Label selection - I/O-Box

	Part No.	Connecting cable
4.1	5550818	Connecting cable RS232 C 9/9-pin, length 3 m
4.2	5918008	Patch cable KAT 5e, 3 m grey

	Part No.	Extras Applicators
5.13	5964277.001	Blow tube 2"
	5964095.001	Blow tube 4"
	5964614.001	Blow tube 6"
5.14	5955735	Air pressure regulation unit L
	5955736	Air pressure regulation unit R
5.15	5955737	Air pressure regulation unit L with main valve
	5955738	Air pressure regulation unit R with main valve

	Part No.	Extras Applicators
5.16	5971556	Air pressure regulation unit L with shut-off valve
	5971559	Air pressure regulation unit R with shut-off valve
5.17	596xxxx.212	Compressed air regulator valve to reduce tamp force

	Part No.	Mounting aid
6.1	5965940	Adapter plate
6.2	on request	Profile
6.3	5961203	Base plate 500 x 255 mm
6.4	5958400	Mounting plate
6.5	5955685	Bracket profile 50 x 50 mm Supplier: Rose+Krieger Part No. 4.08.5000
6.6	8914443	Clamped joint profile 50 x 50 mm Supplier: Rose+Krieger Part No. 4.08.5000
6.7	8914444	Flanged joint profile 50 x 50 mm Supplier: Rose+Krieger Part No. 4.08.5000
6.8	5970113	Stand 1601
6.9	5970112	Stand 1602

	Part No.	Software
7.6	5588000	Label software cablabel® S3 Lite
	5588001 5588100 5588101 5588150 5588151 5588152	cablabel® S3 Pro 1 WS cablabel® S3 Pro 5 WS cablabel® S3 Pro 10 WS cablabel® S3 Pro 1 additional licence cablabel® S3 Pro 4 additional licences cablabel® S3 Pro 9 additional licences
	5588002 5588105 5588106 5588155 5588156 5588157	cablabel® S3 Print 1 WS cablabel® S3 Print 5 WS cablabel® S3 Print 10 WS cablabel® S3 Print 1 additional licence cablabel® S3 Print 4 additional licences cablabel® S3 Print 9 additional licences
	from the 1st quarter 2015	cablabel® S3 Print Server
7.7	5580215	Administration Network Manager
7.10	9008486	Programmer's guide English, printed copy

cab delivery program

Label printer EOS1
The compact for
label rolls up to 155 mm Ø

Label printer EOS4
The cost-effective for
label rolls up to 210 mm Ø

Label printer EOS mobile
Both EOS sizes with battery
pack for mobile print

Label printer A+ series
The universal

Label printer A+M
with centered material guide

Label printer XD4
double-sided printing

Textile printer A4+T
For textile material

Label printer XD4T
double-sided printing of
textile material

Label printer XC4
two-color printing

Label printer XC6
two-color printing

Label dispenser HS
Precise and easy dispensing in
horizontal direction
up to a width of 180 mm

Label dispenser VS
precise and easy dispensing in
vertical direction
up to a width of 180 mm

Print & apply system Hermes+
for automation

Print module PX series
for integration into automatic
labeling systems

Labels / Transfer ribbons
precise printing with cab's labels
and transfer ribbons

Label software cablabel® S3
standard and optional software

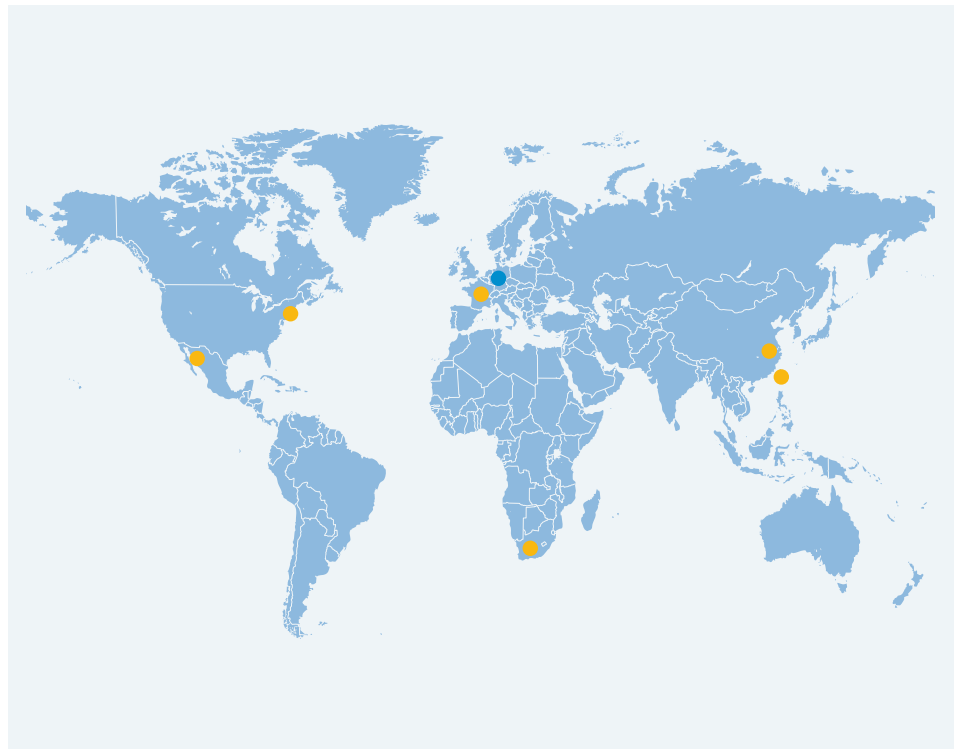**Laser marking system FL series**
Precise and fast

Laser safety housing
The industrial solution

- Headquarters in Germany
- cab offices
  520 partners
  in over 80 countries

cab maintains a presence in the
world's major economic areas.

For current data, please refer to www.cab.de/en

Germany
cab Produkttechnik
GmbH & Co KG
Postfach 1904
76007 Karlsruhe
Wilhelm-Schickard-Str. 14
76131 Karlsruhe
Phone +49 721 6626-0
Fax   +49 721 6626-249
www.cab.de
info@cab.de

**Further partners
on request**

France
cab technologies s.a.r.l.
67350 Niedermodern
Téléphone +33 388 722 501
www.cab.de/fr
info.fr@cab.de

USA
cab Technology Inc.
Tyngsboro MA, 01879
Phone +1 978 649 0293
www.cab.de/us
info.us@cab.de

South Africa
cab Technology (Pty.) Ltd.
2125 Randburg
Phone +27 11-886-3580
www.cab.de/za
info.za@cab.de

Asia 亚洲
cab Technology Co, Ltd.
希爱比科技股份有限公司
Junghe, Taipei, Taiwan
Phone +886 2 8227 3966
www.cab.de/tw
info.asia@cab.de

China 中国
cab (Shanghai) Trading Co., Ltd
铠博(上海)贸易有限公司
Phone +86 21 6236-3161
www.cab.de/cn
info.cn@cab.de