Edition 9.6

Print and Apply System Hermes+

Made in Germany

All information on scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change.

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

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	300	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

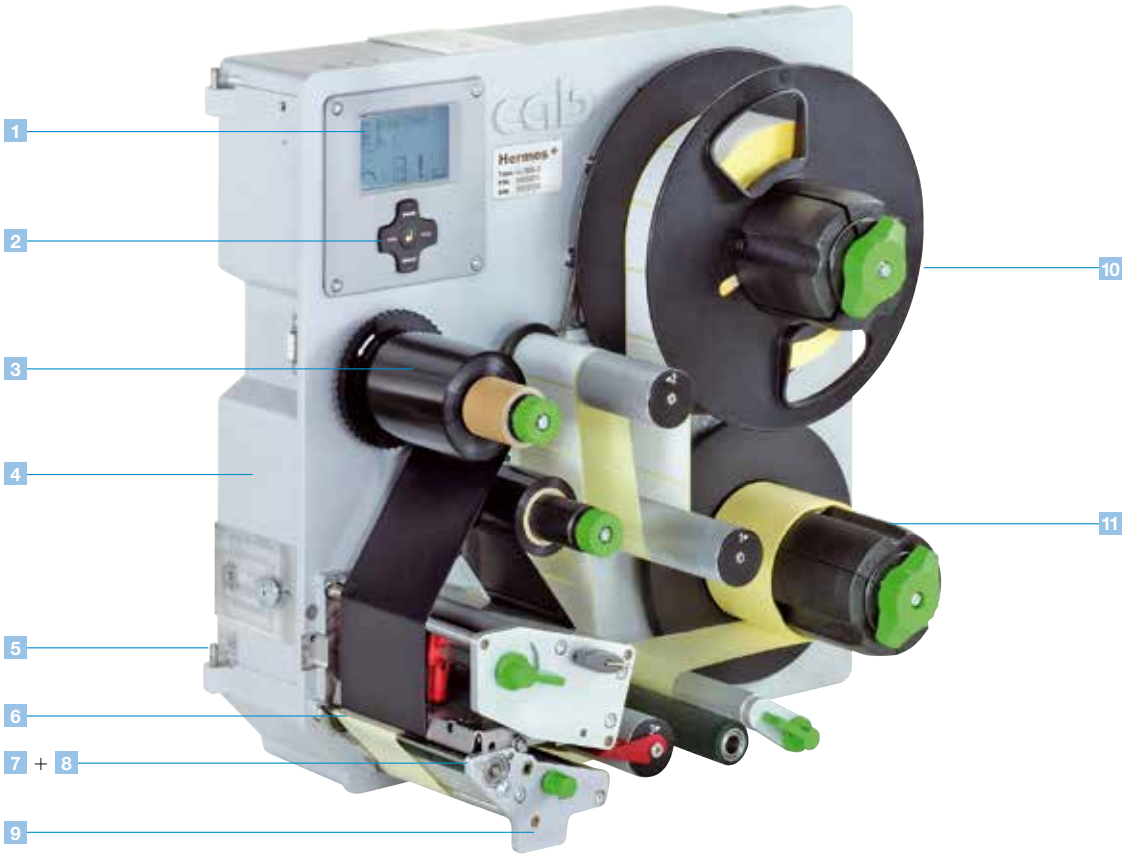
Dispensing direction to the right

Hermes+ 2
Hermes+ 4
Hermes+ 6

} for rolls Ø 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

Compliant with IEC/EN 61131-2, type 1+3; all in- and outputs with galvanic isolation and reverse polarity protection, outputs in addition short circuit protected

Inputs PNP	**Outputs PNP, NPN on request**
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° (Applicator 4214)	Applying position / lower end position
	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

			1.1		1.2			1.3	
Label printer			**Hermes+ 2**		**Hermes+ 4**			**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	300	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	207		260			320	
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.

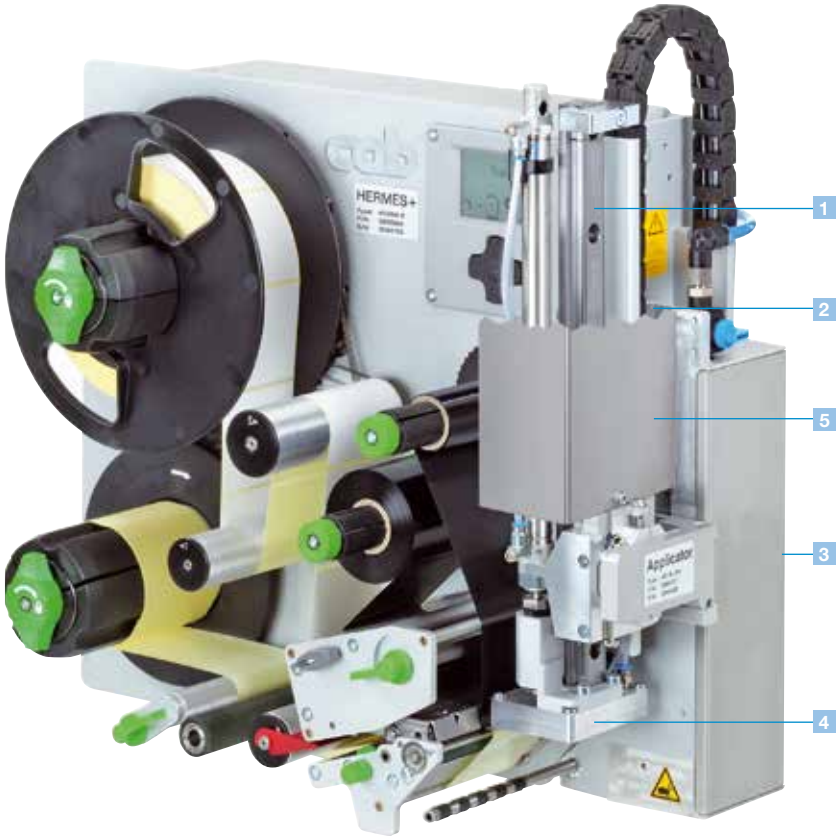
Technical data

■ Standard ☐ Option

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 WLAN field intensity Ethernet state Use memory Temperature printhead Access to memory card Clock Date sheet abc debug Input buffer Remaining quantity of ribbon
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 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC Interleaved 2 / 5 Ident- and lead code of Deutsche Post AG Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked 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 Vista Windows 7 Windows 8 Windows 8.1 Windows 10 Server 2003 Server 2008 Server 2008 R2 Server 2012 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

	Applicators	Hermes+ 2	Hermes+ 4	Hermes+ 6	Transfer modules: Universal pad	Tamp pad	Tamp pad with damping pad	Tamp pad with label stop	Blow pad	Silicone form pad	Spring-mounted universal pad	Spring-mounted tamp pad	Roll-on pad	Corner-wrap pad	Peel-off plate	Vacuum belt	Air-jet module	
		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	☐	☐	—	—	—	—	—	—	—	Product labeling
				4116	—	F	F	F	—	☐	—	—	—	—	—	—	—	Product labeling
5.3	Stroke-turn applicator	4214			—	F	F	F	☐	—	—	—	—	—	—	—	—	Product labeling
5.4	Stroke applicator	4414			—	F	F	F	—	—	—	—	—	—	—	—	—	Product labeling
5.5	Swing-stroke applicator	4514			—	—	—	—	☐	—	—	—	—	—	—	—	—	Product labeling
5.6	Flag applicator		4712		—	☐	—	—	—	—	—	—	—	—	—	—	—	Product labeling
5.7	Front-side applicator		3014		—	☐	—	—	☐	—	—	☐	—	—	—	—	—	Labeling of packaging
				3016	—	☐	—	—	—	—	—	☐	—	—	—	—	—	Labeling of packaging
5.8	Stroke applicator		4014		☐	F	—	—	☐	—	☐	☐	☐	☐	—	—	—	Labeling of packaging
				4016	—	☐	—	—	—	—	—	☐	☐	—	—	—	—	Labeling of packaging
5.9	Stroke-blow applicator		4614		—	—	—	—	☐	—	—	—	—	—	—	—	—	Labeling of packaging
5.10	Demand module		5114		—	—	—	—	—	—	—	—	—	—	☐	—	—	Labeling of packaging
5.11	Vacuum-belt applicator		5314	5316	—	—	—	—	—	—	—	—	—	—	—	☐	—	Labeling of packaging
5.12	Air-jet box		6014		—	—	—	—	—	—	—	—	—	—	—	—	☐	Labeling of packaging

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

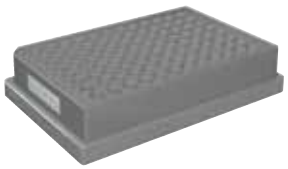
Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

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

Product marking

Stroke applicator 4114 / 4116

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 pad 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
			4114/16 L/R 11 F	4114/16 L/R 12 F	4114/16 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
	Hermes+6	mm	50–174	50–174	50–174	–
Label height	Hermes+2	mm	4–80	8–80	4–80	10–80
	Hermes+4	mm	8–80	8–80	8–80	10–80
	Hermes+6	mm	8–80	8–80	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	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]		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.

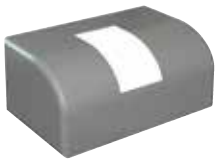
Product marking

Stroke applicator 4114 / 4116

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 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 4114/16 L/R 8800
Label width	Hermes+2	mm	10–58
	Hermes+4	mm	10–114
	Hermes+6	mm	50–174
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

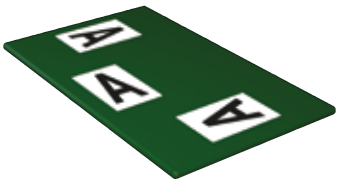
Tamp pad
Labels are precisely applied on flat, even recessed surfaces.

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 pad 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

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.

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.

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 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.

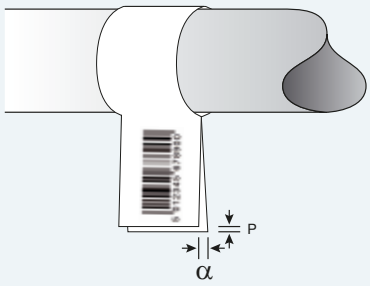
Technical data			Blow pad 4514 L/R 2100
Label width	Hermes+2	mm	10 – 58
	Hermes+4	mm	10 – 80
Label height		mm	10 – 60
Product	not in motion during labeling		■
Labeling onto the product		from top	■
		from below	■
		from the side	■
Product height		fixed	■
Vertical pivoting angle			120°
Distance lower edge 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

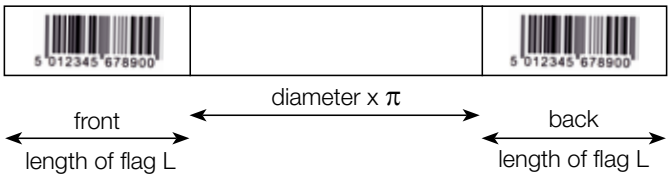
[1] Calculated at stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] Depending on label height

Product marking

Flag applicator 4712

5.6





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.

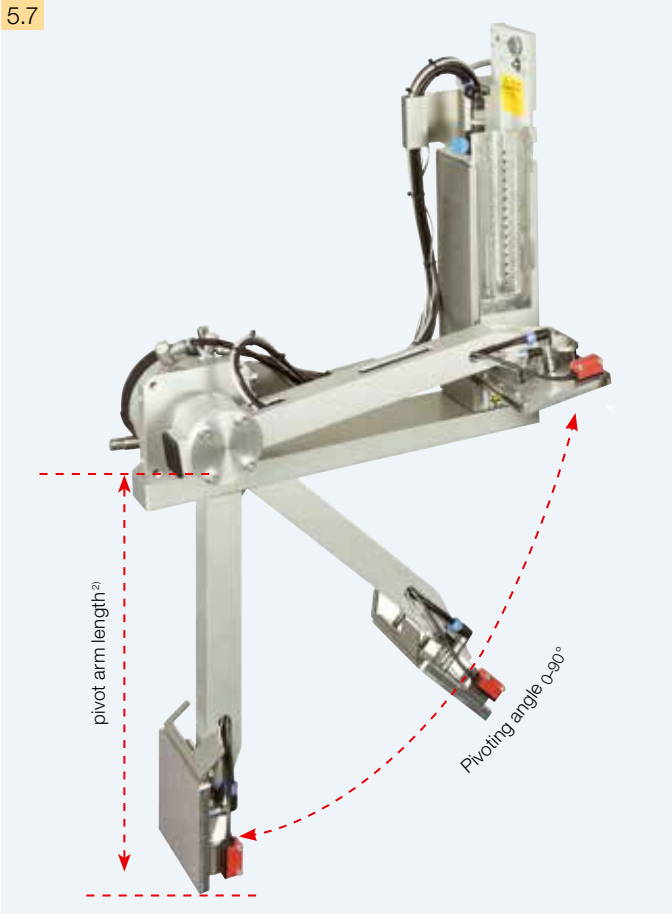
Technical data		Tamp pad 4712 L 300
Label width Hermes+4	mm	60–100
Label height	mm	10–50
Diameter	mm	3–18
Product not in motion during labeling		■
Labeling onto the product	from top	■
	from below	■
	from the side	■
Product height	fixed	■
Product distance to lower edge at cylinder stroke 300 min. 70 mm	up to mm	260
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 print speed 100 mm/s

Packaging marking

Front-side applicator 3014 / 3016

5.7



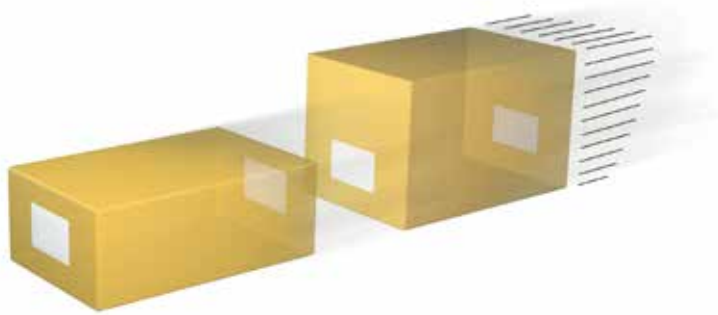
Labels are applied on the product via rotating cylinder. A sensor enables the detection of the packaging and to control the pivot arm and pad moving to their initial position after labeling.

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[2]		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

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 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.

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.

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 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 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 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

5.10

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

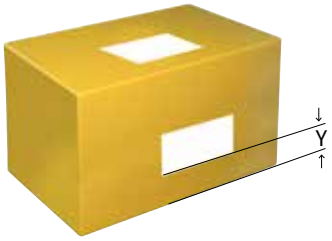
[1)] Label height 100 mm, print speed 100 mm/s

Packaging marking

Vacuum belt applicator 5314 / 5316

5.11

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



Technical data		Vacuum belt applicator	
		5314-3	5316-3
Labeling		on the surface	on the surface
Label width	mm	20-114	46-174
Label height	mm	60-356	60-356
Product during labeling	in motion	■	■
Labeling on the product	from top	■	■
	from below	■	■
	from the side	■	■
Product distance	steady	■	■
Product height		steady	steady
Product speed	max. m/s	0,5	0,5
Distance between one product and the next	min. m	1,0	1,0
Vacuum belt speed[1]	mm/s	100-500	100-500
Length	mm	390	390
Cycle time[2]	max. labels/min	30	30
Label distance to conveyor belt when labeling from the side	Y min. mm	20	20

[1] The product speed must be higher than the vacuum belt speed.
[2] Calculated at label height 100 mm / print speed 250 mm/s

Packaging marking

Air-jet-box 6014

5.12

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.

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.

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	RS422/RS485 1.200 up to 230.400 baud/8 bit	☐	☐	☐
3.3	Label selection – I/O-box	☐	☐	☐
3.4	I/O interface adapter	☐	☐	☐
	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	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 for profile 50 x 50 mm	☐	☐	☐
6.7	Flanged joint for profile 50 x 50 mm	☐	☐	☐
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.
3.4 	**I/O interface adapter** It adapts the 15 pin connector of a Hermes A labeling system to the 25 pin connector of Hermes+.
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** With 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.

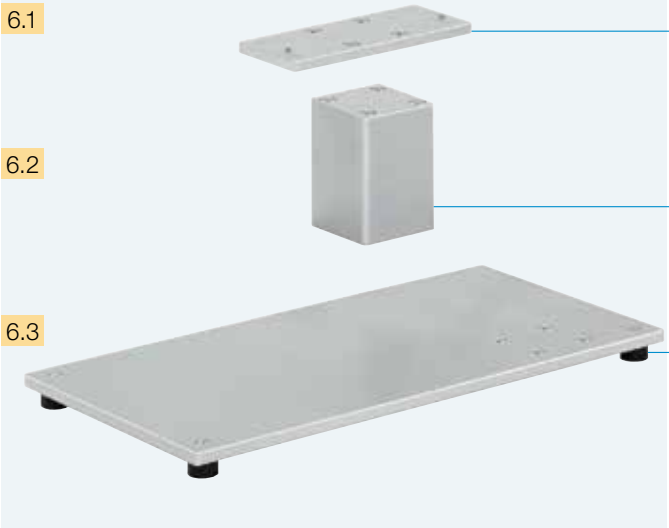
Accessories - Assembly aids

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.

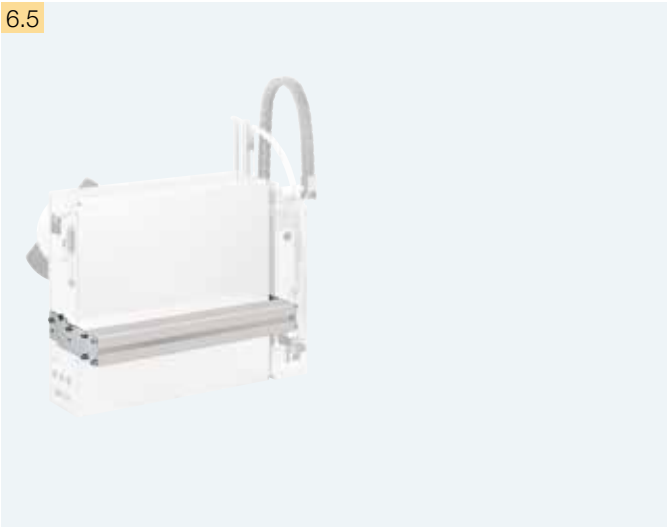
3 **Base plate**
For fastening the printer holder
Standard size: 500 x 255 mm.

6.4

Mounting plate
Allows to mount the device directly at the production line.

Accessories - Mounting aid

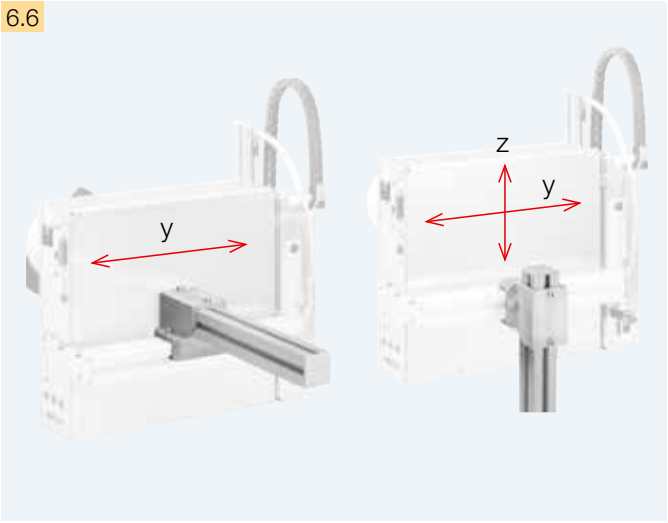
6.5



Bracket

The Hermes+ is mounted at the stand via bracket.

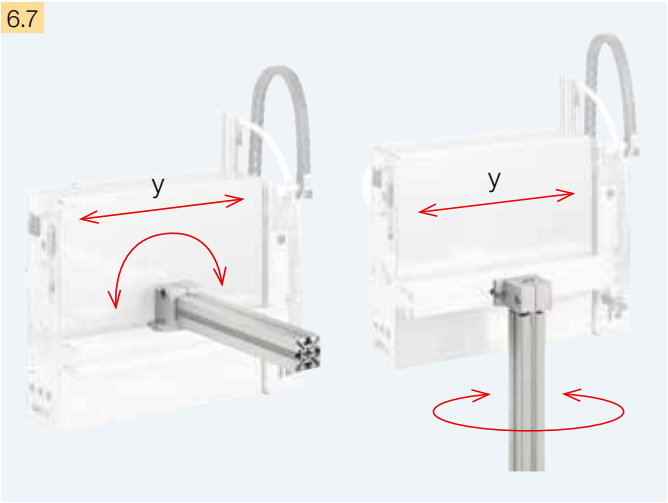
6.6



Clamped joint for profile 50 x 50 mm

With this clamped joint the labeling system can be moved horizontally and vertically.

6.7

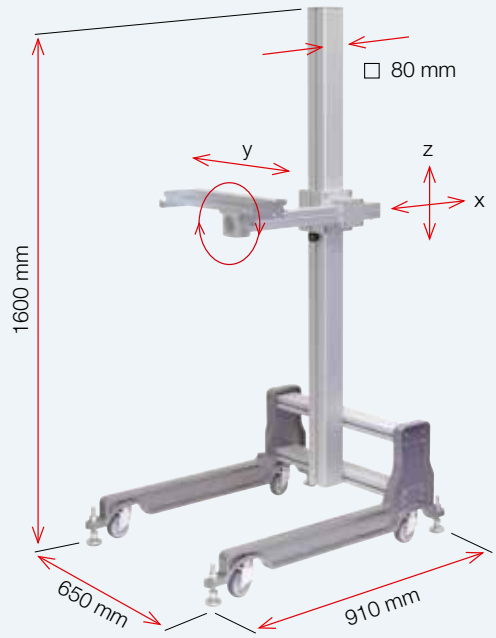


Flanged joint for profile 50 x 50 mm

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

Accessories floor stand

6.8

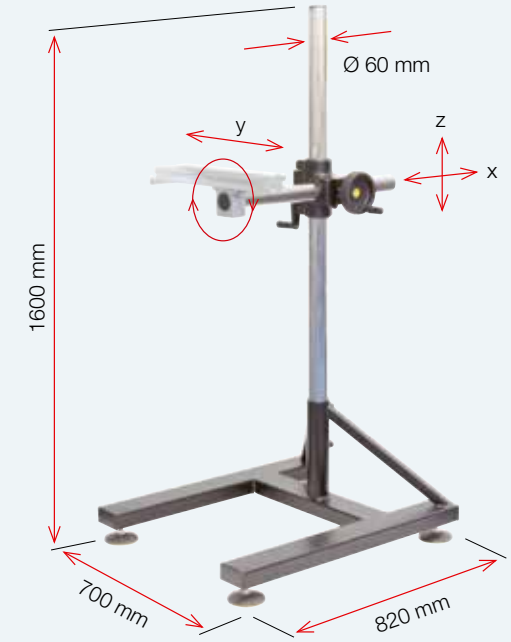


For integrating all types of labeling systems of the Hermes+ series into any manufacturing line. Due to the adjustability the Hermes+ can be positioned in 3 axes to the product to be labeled. Pivoting is also possible.

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

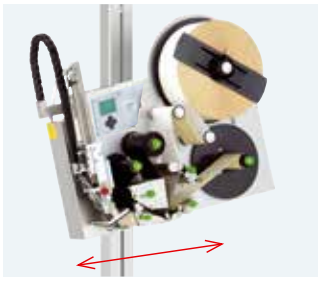


Floor stand 1602 Hermes+
Preferably used if the labeling position needs to be frequently adjusted in height and depth. Due to the toothed rack adjustment the Hermes+ may be positioned in X and Y direction to the product.

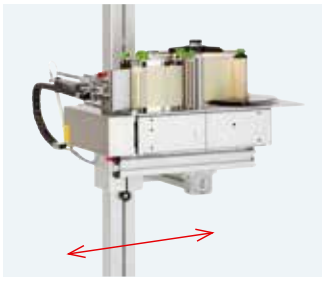
Technical data	Floor stand 1602 Hermes+
Base frame	Adjustable feet
Adjustment in height Adjustment in depth	Toothed rack / crank Toothed rack / handwheel
Max. load kg at an offset of 500 mm	50
Weight kg	38

Examples printer installation

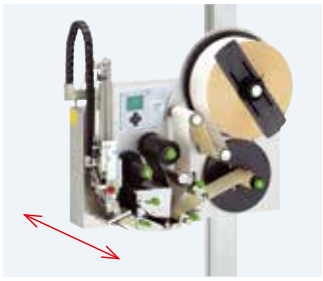
Labeling in transport direction from top



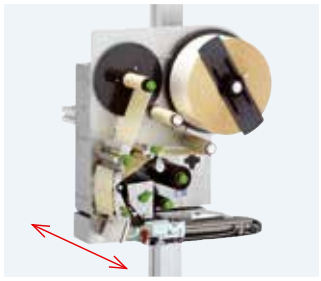
sidewards



Labeling at right angles to transport direction from top



sidewards



Software features of the label printer

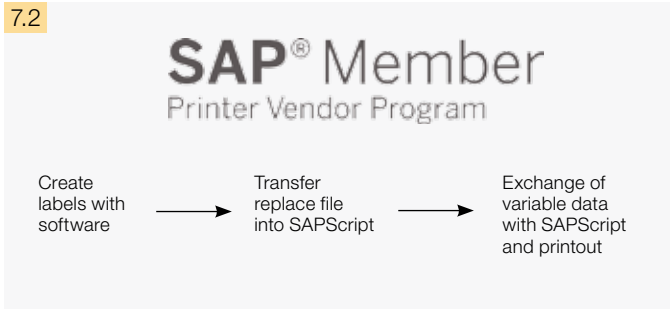
7.1

```
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

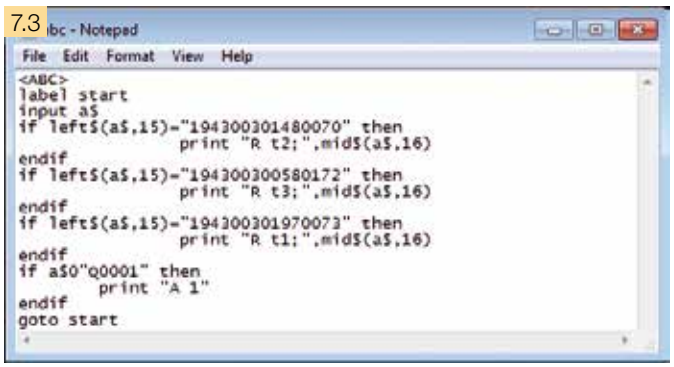


Replace files and integration in SAP R/3*

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 SE in Germany and in several other countries.*

7.3

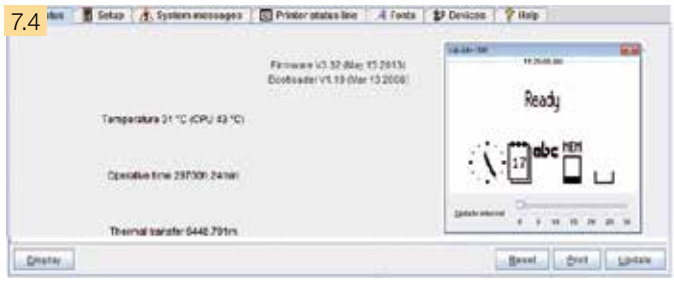


abc BASIC Compiler

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.

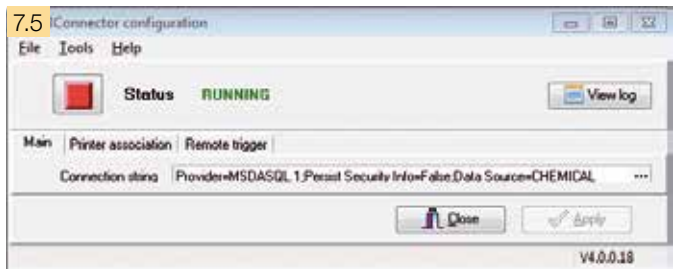
7.4



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 Label software cablabel S3

It includes three functions:

• **design** • **print** • **monitoring**

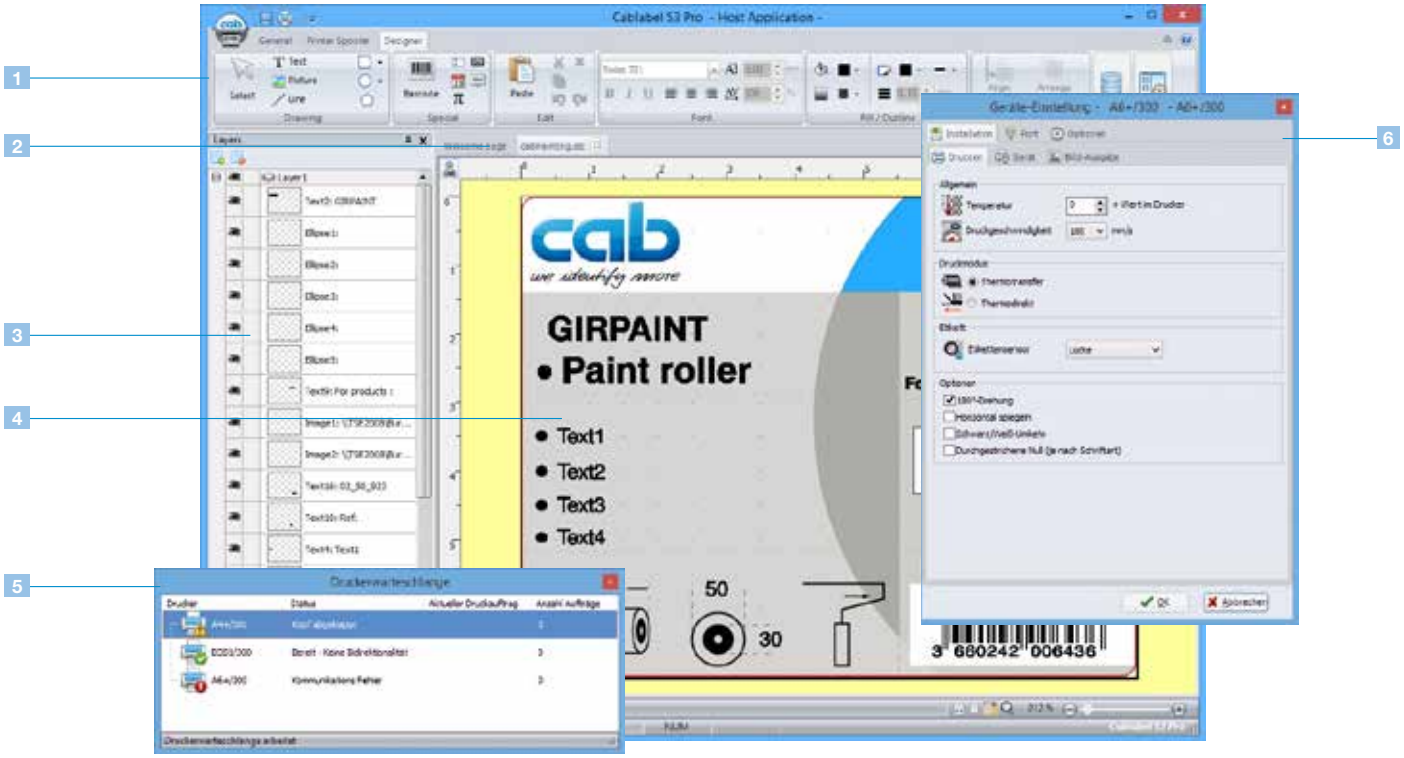
As regards design, cablabel S3 opens up the full potential of the cab devices. The intuitive user interface provides an extensive instruction set, for example different date formats, mathematical or logic functions.

At this, cablabel S3 connects all cab marking systems. First of all you design your label. Only when it comes to printing you have to decide whether the label shall be dispensed on a label printer, a print and apply system or a marking laser system.

Do you want your marking system to print labels in stand-alone mode? cablabel S3 supports again. After the label has been designed the program supplies all necessary data to be stored within the printer for stand-alone mode.

cablabel S3 is of modular design and can be adapted to your requirements step by step. To support functions like, for example, native programming with JScript, elements like the JScript viewer are embedded as plug-in. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be comfortably integrated.

For further information see www.cab.de/en/cablabel



1 Toolbar
Here you can create different objects for your labels.

2 Tabs
For fast navigation between several opened label layouts.

3 Layers
Help to manage different label objects.

4 Designer
Streamlined design by WYSIWYG display of the label.

5 Printer spooler
Monitors all print jobs and shows status of printers.

6 Drivers
With integrated hardware drivers you can manage settings and communication with devices.

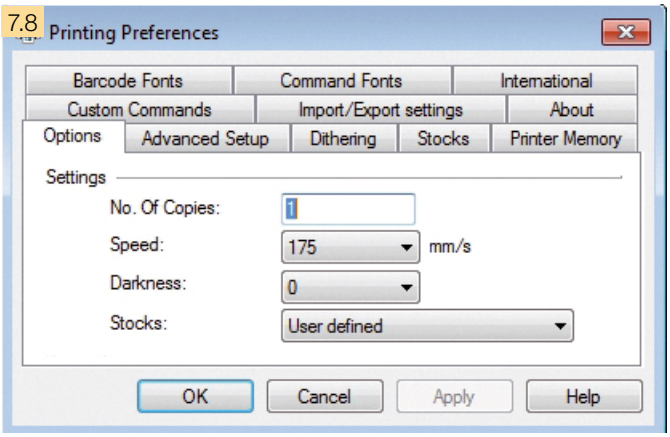
Software tools – Monitoring

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



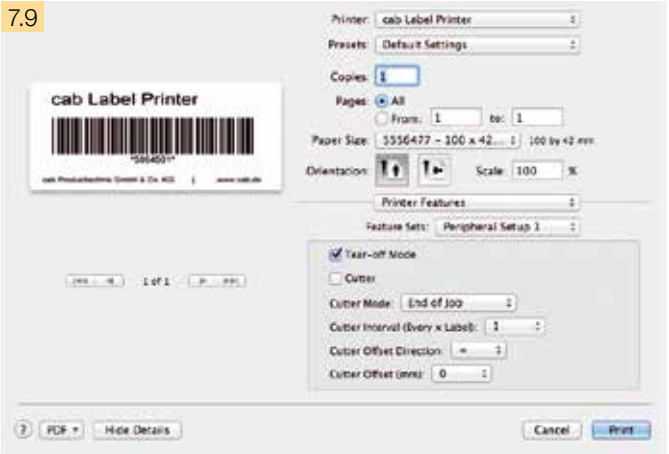
WHQL certified Windows printer drivers for

Windows Vista	Windows Server 2003
Windows 7	Windows Server 2008
Windows 8	Windows Server 2008 R2
Windows 8.1	Windows Server 2012
Windows 10	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.

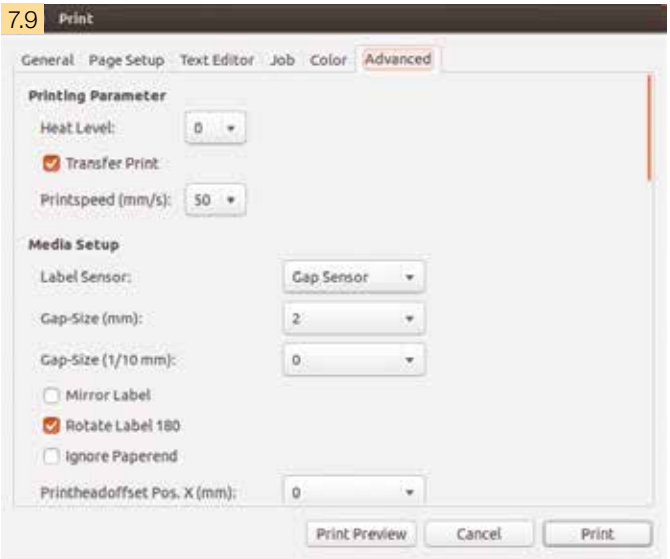
7.9



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



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				
	5961411	Label printer Hermes+ 2L/600-3	**5958686.001**	Print head 2/600	**5954102.001**	Print roller DR2	**5961015.001**	Drawing roller ZR2
	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				
	5961413	Label printer Hermes+ 2R/600-3	**5958686.001**	Print head 2/600	**5954102.001**	Print roller DR2	**5961015.001**	Drawing roller ZR2
	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) 2)]
	595xxxx.202	Label printer Hermes+ with ribbon saver[3)]
	595xxxx.203	Label printer Hermes+ with cover[1) 2)] and ribbon saver[3)]
	on request	Label printer Hermes+ with label roll core diameter of 40 mm only for Hermes+2 and 4
	5961406	adapter for core diameter 50 mm
		[1)] only for label rolls up to 205 mm Ø [2)] not to be combined with vacuum belt applicator [3)] only for Hermes+4 and 6
		If the immersion depth of the tamp pad exceeds >25 mm, the cover 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 Vista	Server 2003
Windows 7	Server 2008
Windows 8	Server 2008 R2
Windows 8.1	Server 2012
Windows 10	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**	4L/200-2
	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
		5971795 **5972016** **5972017**	Stroke applicator 4116L-200 Stroke applicator 4116L-300 Stroke applicator 4116L-400		**xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad Tamp pad with damping pad Tamp pad with label stop Silicon pad	4116L-11 F B x H 4116L-12 F B x H 4116L-61 F B x H 4116L-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		**5971815**	Flag applicator 4712L-300				
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		**5972730**	Vacuum belt applicator 5314L-3				
		5972750	Vacuum belt applicator 5316L-3				
5.12		**5971582**	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** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 3214R-11 F B x H Tamp pad with damping pad 3214R-12 F B x H Tamp pad with label stop 3214R-61 F B x H Blow pad 3214R-2100 B x H
5.2		**5966113** **5966114** **5966115**	Stroke applicator 4114R-200 Stroke applicator 4114R-300 Stroke applicator 4114R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4114R-11 F B x H Tamp pad with damping pad 4114R-12 F B x H Tamp pad with label stop 4114R-61 F B x H Blow pad 4114R- 2100 B x H Silicon pad 4114R-8800 B x H
		5972018 **5972019** **5972020**	Stroke applicator 4116R-200 Stroke applicator 4116R-300 Stroke applicator 4116R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4116R-11 F B x H Tamp pad with damping pad 4116R-12 F B x H Tamp pad with label stop 4116R-61 F B x H Silicon pad 4116R-8800 B x H
5.3		**5966121** **5966122** **5966123**	Stroke-turn applicator 4214R-200 Stroke-turn applicator 4214R-300 Stroke-turn applicator 4214R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4214R-11 F B x H Tamp pad with damping pad 4214R-12 F B x H Tamp pad with label stop 4214R-61 F B x H Blow pad 4214R-2100 B x H
5.4		**5966137** **5966138** **5966139**	Stroke applicator 4414R-200 Stroke applicator 4414R-300 Stroke applicator 4414R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4414R-11 F B x H Tamp pad with damping pad 4414R-12 F B x H Tamp pad with label stop 4414R-61 F B x H
5.5		**5966950** **5971460** **5971700**	Swing-stroke applicator 4514R-200 Swing-stroke applicator 4514R-300 Swing-stroke applicator 4514R-400		**xxxxxxx**	Blow pad 4514R-2100 B x H
5.7		**5970106** **5970107** **5970108**	Front-side applicator 3014R-200 Front-side applicator 3014R-300 Front-side applicator 3014R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 3014R-1100 B x H Spring-mounted tamp pad 3014R-3100 B x H Blow pad 3014R-2100 B x H
		5970109 **5970110** **5970111**	Front-side applicator 3016R-200 Front-side applicator 3016R-300 Front-side applicator 3016R-400		**xxxxxxx** **xxxxxxx**	Tamp pad 3016R-1100 B x H Spring-mounted tamp pad 3016R-3100 B x H
5.8		**5966105** **5966106** **5966107**	Stroke applicator 4014R-200 Stroke applicator 4014R-300 Stroke applicator 4014R-400		**5966140** **5966141** **5966142** **5966143**	Universal pad 4014R-1100 75 x 60 Universal pad 4014R-1100 90 x 90 Spring-mounted universal pad 4014R-3100 116 x 102 Spring-mounted universal pad 4014R-3100 116 x 152
					xxxxxxx **xxxxxxx** **xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4014R-11 F B x H Blow pad 4014R-2100 B x H Spring-mounted tamp pad 4014R-3100 B x H Roll-on pad 4014R-4100 B x H Corner-wrap pad 4014R-5100 B x H / H
		5966165 **5966166** **5966167**	Stroke applicator 4016R-200 Stroke applicator 4016R-300 Stroke applicator 4016R-400		**xxxxxxx** **xxxxxxx** **xxxxxxx**	Tamp pad 4016R-11 F B x H Spring-mounted tamp pad 4016R-3100 B x H Roll-on pad 4016R-4100 B x H
5.9		**5971735** **5971740** **5971745**	Stroke-blow applicator 4614R-200 Stroke-blow applicator 4614R-300 Stroke-blow applicator 4614R-400		**xxxxxxx**	Blow pad with height sensor 4614R-2100 B x H
5.10		**5966145**	Demand module 5114R			
5.11		**5972740**	Vacuum belt applicator 5314R-3			
		5972760	Vacuum belt applicator 5316R-3			
5.12		**5971577**	Air-jet-box 6014R		**5971581** **xxxxxxx**	Blow module 6014 L/R universal 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 tamp pad exceeds 25 mm, the cover has to be modified. Cover not to be combined with vacuum-belt applicator
		**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		**5970071**	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 3.2		**5954200** **5954201**	Centronics interface RS422/RS485 interface	
3.3		**5954191**	Label selection - I/O-Box	
3.4		**5961349**	I/O interface adapter	
		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
6.6		**8914443**	Clamped joint for profile 50 x 50 mm
6.7		**8914444**	Flanged joint for profile 50 x 50 mm
6.8		**5970113**	Stand 1601
6.9		**5970112**	Stand 1602
		Part No.	**Software**
7.6		**5588000** **5588001** **5588100** **5588101** **5588150** **5588151** **5588152** **5588002** **5588105** **5588106** **5588155** **5588156** **5588157** In preparation	Label software cablabel® S3 Lite 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 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 cablabel® S3 Print Server
7.10		**9008486**	Programmer's guide English, printed copy

Product overview

Label printers MACH1/2
in the lower price segment

Label printers MACH4
where little space is available

Label printers EOS1
desktop device for label rolls
up to diameter 155 mm

Label printers EOS4
desktop device for label rolls
up to diameter 210 mm

Label printers A2+
industrial device
up to print width 57 mm

Label printers SQUIX
industrial device
up to print width 108 mm

Label printers A6+
industrial device
up to print width 168 mm

Label printers A8+
industrial device
up to print width 216 mm

Label printers XD4T
for double-sided printing

Label printers XC
for two-color printing

Print and apply systems Hermes+
for automation

Print and apply systems Hermes C
for two-color printing and applying

Print modules PX
to be integrated
in automatic labeling systems

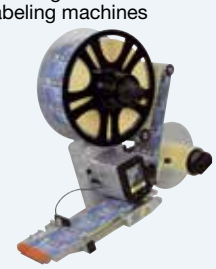
Labels
of more than 400 materials

Ribbons
in wax, resin and resin/wax qualities

Label software cablabel S3
Design, print, monitoring

Label dispensers HS/VS
for horizontal or
vertical dispensing

Labeling heads IXOR
to be integrated
in labeling machines



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