

Status: 02/2018



Products need labeling

Print and apply systems



Hermes⁺
Made in Germany



cab – Product innovation Made in Germany

Since more than 40 years cab develops and manufactures solutions and a large amount of accessories for product marking. The product range includes label printers, print and apply systems, label dispensers and marking laser systems. In addition, cab provides ribbons and labels for the perfect imprint.

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Scopes of delivery, design and technical specifications correspond to the date of the printing.
 Subject to change. The data provided in the catalog do not represent any warranty or guarantee.
 For current data see www.cab.de/en/hermesplus



Print and apply systems HERMES+

Designed for demanding industrial applications

HERMES+ represents

- innovative technology
- reliable and fast printing
- precise labeling
- modular construction
- rugged metal design
- highest quality standards

Hermes+ has been designed for automatic printing and applying in production lines. Applicators allow the labels to be rolled, blown or tamped on a product or packaging.

A wide range of accessories and different floor stands are available to allow flexibility in installation. This facilitates both the integration in already existing and simplifies the project planning of new production lines.

Hermes+ systems turn out to be a safe investment for the future: If requirements should change, such as the product to be marked or the size of the label, the modular design can be individually adapted.



Information is also
available on the Internet:
www.cab.de/en/hermesplus

Sample applications:

Marking picking and transport boxes
for traceability of the goods



Marking pharmaceutical products
such as test tube carriers
even when there is only little space
to stick a label



Marking cardboard or
other product packaging
in motion or not in motion



Type overview HERMES+

The system is basically split into a print unit and the applicator. Both of them can be combined depending upon individual needs.

As for the print units, two different unwinding diameters and all systems in a left or right hand version are offered as standard.

1.1



Hermes+ 2 - the slim one

for small labels with an accurate imprint

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

In case of carrier material with a width less than 24 mm the label roll has to be guided by additional margin stops centered to the ribbon to achieve an accurate imprint. Kits are available on request.

1.2



Hermes+ 4 - the universal one

The best selling industrial device offering an accurate imprint and a wide range of accessories.

1.2	Label printer	Hermes+ 4			Hermes+ 4.3	
	Printable resolution dpi	203	300	600	203	300
	Print speed up to mm/s	250	250	100	250	250
	Print width up to mm	104	105.6	105.6	104	108.4
	Label roll outside diameter mm	205 / 305				
	Label width up to mm	114				

1.3



Hermes+ 6 - the wide one

for Odette, UCC and GS1 labels

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

Type overview **HERMES+**

Hermes+ 2



Label reel diameter 205 mm

Hermes+ 2
Hermes+ 4
Hermes+ 6

Label reel diameter 205 mm

Hermes+ 2
Hermes+ 4
Hermes+ 6

Label reel diameter 305 mm

Hermes+ L



Dispensing to the left

Hermes+ R

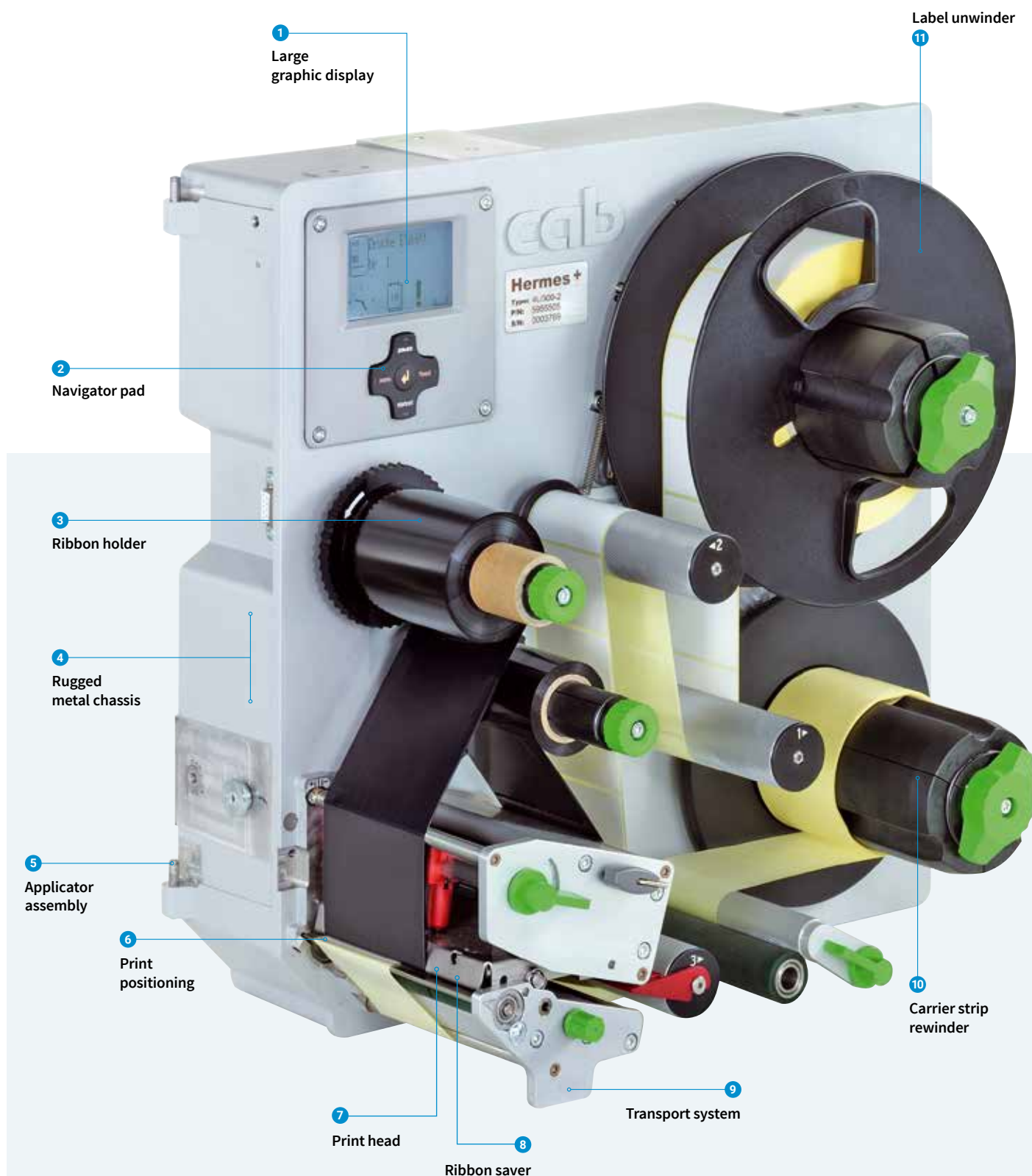


Dispensing to the right

 Hermes+ 2 } for label rolls
 Hermes+ 4 } up to 205 mm
 Hermes+ 6 }


Cover protecting from dirt

Technical details HERMES+



MARIO HISS // SALES DIRECTOR PRINT AND APPLY SYSTEMS

» Every industrial sector has specific requirements on the **quality of the label** and has different **conditions** related to the automation. «



1 Large graphic display

White backlight provides optimum readability. Depending on the mounting direction, the display can be rotated in steps of 90°.

2 Navigator pad

Simple, interactive menu control; only applicable functions are displayed by the day and night design. Along with the graphic display navigation is easy to understand.

3 Ribbon holder

The fast and simple exchange of the ribbon is enabled by three-part tightening axles.

4 Rugged metal chassis

made of cast aluminum; basis to assemble all components

5 Applicator assembly

Assembled with hinged bolts, the applicator may be easily removed for maintenance.

6 Print positioning

The print position is automatically aligned when few labels of a new label roll have been printed. The reference value is kept even when the device is switched off.

7 Print head

It can be exchanged in a few quick steps; simple adjustment and setting

8 Ribbon saver

This feature is used with partially printed labels. In case of unprinted sectors the print head is lifted and the ribbon is stopped during label feed.

9 Transport system

Accurate imprint and precise feeding are enabled by ball bearing feed rolls.

10 Carrier strip rewinder

When all labels have been peeled off, the carrier strip of the label roll is fully rewound. The removal of the label roll is simplified by the tightening axle.

11 Label unwinder

A swing lever and an integrated brake mechanism make sure that the labels are unwound with constant tension.

Direction of printing

All Hermes+ devices with applicators are available in a left and right hand version.

we identify more

Consistent **know-how**, high level **vertical integration**

All mechanical and plastic components used in cab devices and systems are manufactured in-house at the Sömmerda site. Facilities, machinery and equipment are always using the latest technology.

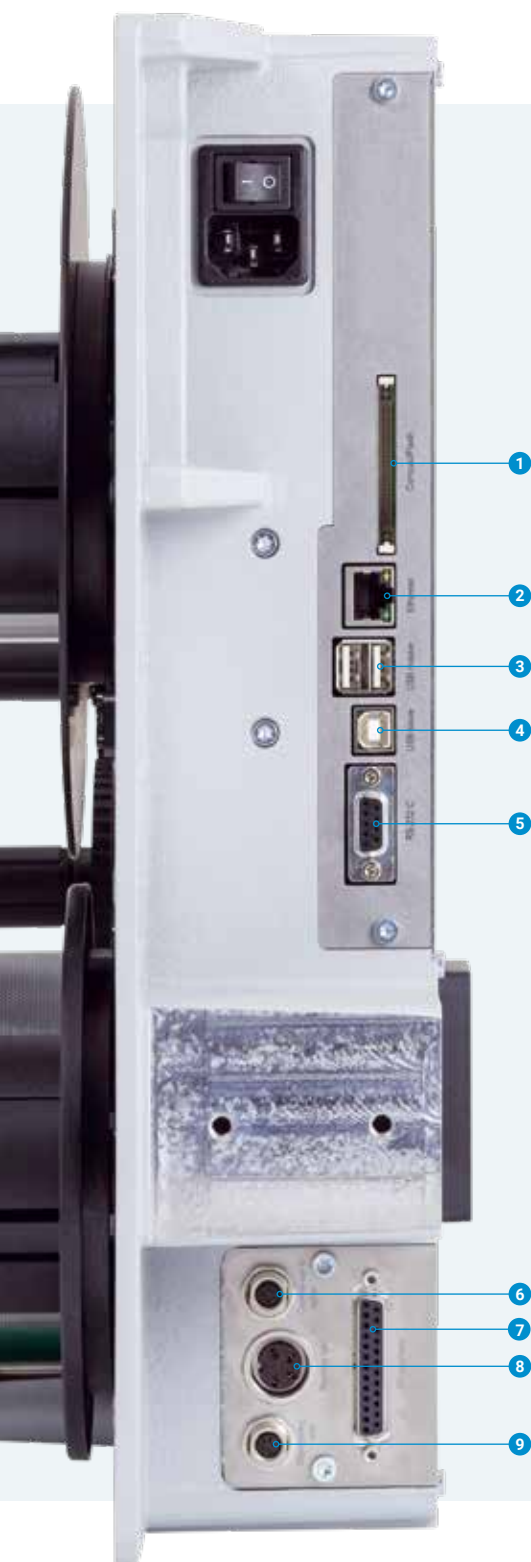
Substantial equipment provides the preconditions to economically manufacture even complex marking systems that set demanding requirements on production processes. The competencies for the whole process chain of electronics, mechanics and software are provided within cab.

cab
we identify more



For further information see
<https://we-identify-more.com/en>

Interfaces HERMES+



- 1 Slot for **memory card** CompactFlash Type I
- 2 **Ethernet 10/100 BASE-T** interface with TCP/IP
- 3 **2 x USB master** interfaces
to connect an external operation panel, a keyboard,
barcode scanner or service key
- 4 **USB 2.0 slave** interface to connect a PC
- 5 **RS232-C** interface
- 6 **Main valve for air pressure supply** connection
to centrally switch ON/OFF the compressed air supply
- 7 **Digital I/O** interface
25-pin SUB-D socket connector

Compliant with IEC/EN 61131-2, Type 1+3; all in- and outputs are galvanically isolated and protected from reverse polarity, outputs as well protected from short circuit

Inputs PNP

Start printing and applying
Reprint
Label feed
Delete print job
Pause
Label dispensed
Reset
Stop printing and applying
Print first label
Label rotation 90°
(Applicator 4214)

Outputs PNP - NPN on request

Ready
Print data available
Paper feed ON
Pre-warning end of ribbon
Pre-warning end of label web
Error end of ribbon
Error end of label web
Label in peel-off position
Initial position / upper end
Labeling position / lower end
Common alarm

- 8 **Warning light** connection
The printer status is displayed:
Green Device switched on
Yellow Pre-warning end of ribbon
Red Error printer or labeler
- 9 **External E-stop** connection
Along with the plug-in of a main valve this interface allows compressed air supply to be interrupted in case of emergency.

Options



Centronics interface
bi-directional according to IEEE 1284;
interface RS422 / RS485 1,200 to 230,400
baud/8 bit. The interfaces are connected to a PC. A USB cable connects with the printer.



Label selection - I/O box
A maximum of 16 different labels are
selected from a memory card via PLC.
It is also possible to take control of
4 in- resp. outputs via Basic Interpreter.

Technical data

● Typical ○ Possible ■ Standard □ Option

		1.1		1.2					1.3	
		Hermes+ 2		Hermes+ 4.3		Hermes+ 4			Hermes+ 6	
Label printer										
Printing method Thermal transfer		●	●	●	●	●	●	●	●	●
Thermal direct		●	-	●	●	○	○	-	●	●
Printable resolution	dpi	300	600	203	300	203	300	600	203	300
Print speed	up to mm/s	150	100	250	250	250	250	100	200	200
Print width	up to mm	54.2	57	104	108.4	104	105.6	105.6	168	162.6
Labels¹⁾										
On rolls or reels with Hermes+ 2		Paper, plastics PET, PE, PP, PI, PVC, PU, acrylate								
Thickness / Weight	mm / g/m²	0.055 - 0.35 / 60 - 160								
Width Labels	mm	4 - 58		10 - 114					50 - 174	
Carrier material ²⁾ roll	mm	24 - 62		24 - 118					54 - 178	
reel	mm	10 - 62		-					-	
Label height when dispensing	mm	4 - 200		8 - 320					25 - 320	
Roll Outside diameter	up to mm	205 / 305								
Core diameter roll, standard	mm	76		76					76	
roll / adapter, option	mm	40 / 50		40 / 50					-	
Winding		outside or inside								
Ribbon³⁾										
Ink side		outside or inside								
Roll diameter	up to mm	80		80					80	
Core diameter	mm	25		25					25	
Variable length	up to m	500		500					500	
Width	mm	60		114					165	
Ribbon saver		-		□					□	
Internal rewinder										
Outside diameter	up to mm	155 / 210								
Core diameter	mm	76								
Printer dimensions and weights										
Width	mm	207		260					320	
Height with label roll diameter 205 mm	mm	400								
305 mm	mm	538								
Depth with label roll diameter 205 mm	mm	400								
305 mm	mm	518								
Weight	kg	15		16					20	
Label sensor										
Gap sensor for		Label front edge or punch marks and end of material								
Reflective sensor from below or top for		Print marks								
Distance sensor to locating edge	mm	2 - 26		2 - 47					2 - 47	
Electronics										
Processor high-speed 32 bit clock rate	MHz	266								
Main storage RAM	MB	64								
Data storage	MB Flash	8								
Plug-in memory card CompactFlash Type I		■								
Battery for time and date, real-time clock		■								
Error signal		■								
Interfaces										
Centronics bi-directional according to IEEE 1284		□								
RS232-C 1,200 to 230,400 baud/8 bit		■								
USB 2.0 slave to connect a PC		■								
Ethernet 10/100 BASE-T, LPD, RawIP printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, SOAP, mDNS		■								
RS422 / RS485 1,200 to 230,400 baud/8 bit		□								
2x USB master to connect an external operation panel, a keyboard, barcode scanner or service key		■								
Warning light		■								
Digital I/O		■								
Applicator		■								
External E-stop		■								
Main valve for air pressure supply		■								
Operating data										
Power supply		100 - 240 VAC, 50/60 Hz, PFC								
Power consumption	up to W	300								
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⁾ Limitations may apply to small labels, thin materials or strong adhesives. Critical applications need to be tested.

²⁾ In case of carrier material with a width less than 24 mm the label roll has to be guided by additional margin stops centered to the ribbon to achieve an accurate imprint. Kits are available on request.

³⁾ The ribbon should at least correspond with the width of the carrier material.

Technical data

■ Standard □ Option

Operation panel	
Buttons / LED signals	Pause, Feed, Cancel, Menu, Enter, 4 x cursor
LCD graphic display	Width 60 mm, height 40 mm Four lines of text, approx. 20 characters per line
Settings	
	Time, date, analog and digital clock 25 languages System settings, print parameters, interfaces, safety
Display information	
	Data reception Ethernet status Used memory Print head temperature Memory card access Clock Calendar abc debug Input buffer Ribbon remaining
Monitoring	
Print stop in case of	end of ribbon end of label web print head open
Pre-warning to	end of ribbon
Test routines	
System diagnostics when	device is switched on, including print head check
Short status, status printout	Fonts list, type overview, WLAN status, label profile, test grid, monitor mode, PPP status
Status reports	- Printout of system settings, for example print lengths and running times - System status requests via software command - Display information such as network error, missing link, barcode error, etc.
Fonts	
Font types	5 bitmap fonts including OCR-A, OCR-B and 3 vector fonts Swiss 721, Swiss 721 Bold, Monospace 821 are internally provided, TrueType fonts may be stored
Character sets	Windows 1250 to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K018-R All West and East European, Latin, Cyrillic, Greek, Hebrew and Arabic characters, Chinese and Thai are supported.
Bitmap fonts	Size in width and height 1 - 3 mm Zoom factor 2 to 10 Orientation 0°, 90°, 180°, 270°
TrueType fonts	Size in width and height 0,9 - 128 mm Variable zoom Orientation 360° in steps of 1°
Font styles	Bold, italic, underlined, outline, inverse - depending on the font type
Character spacing	Variable

Graphics		
Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled and filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Barcodes		
Linear	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 routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D and stacked	Aztec Codablock F Data Matrix PDF 417 Micro PDF 417 UPS MaxiCode QR code RSS 14 truncated, limited, stacked and stacked omni-directional EAN/GS1 DataMatrix GS1 DataBar All codes are variable as regards height, modular width amd ratio; orientation 0°, 90°, 180°, 270° Optionally check digit, plain text printout and start/stop code depending on the type of code	
Software		
Programming	JScript direct programming abc Basic Compiler Database Connector	■ ■ ■
Monitoring / Administration	Printer control Network Manager	■ ■
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
WHQL certified Windows printer drivers for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 ■
Apple Mac OS X drivers	from version 10.6	■
Linux printer drivers	from CUPS 1.2	■
Stand-alone operation		■

Applicators



1 Long service life

Precise and low-wear linear guidance via a ball bearing chain

2 Variable product heights

The stroke applicator enables labeling at different heights. Applicator's lengths are 200, 300 and 400 mm as standard. Further lengths are available on request.

3 Protective cover

The cylinder and the guidance are cover-protected as standard. For application at labeling work stations protective covers adapted to the product jig are offered.

4 High process reliability

Supporting air, suction air and the stroke speed are all adjustable. Sensor control

5 Real-time labeling

Applicators are available for both small and large labels; labels heights 4 - 250 mm and label widths 4 - 174 mm can be processed.

6 Pivot applicator

In case of material exchange or maintenance the print mechanics is easily accessible.

Compressed air regulator

It reduces the contact pressure of the stroke cylinder on the product.

Overview of applicators and transfer modules

Applicator		Hermes+			Transfer module													
		2	4	6														
		Order code			11	11	12	61	21	88	31	31	41	51	—	—	90	Product marking
5.1	Swing applicator	3214			—	F	F	F	□	—	—	—	—	—	—	—	—	
5.2	Stroke applicator	4114			—	F	F	F	□	□	—	—	—	—	—	—	—	
			4116		—	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		4712		—	—	—	—	—	□	—	—	—	—	—	—	—	

5.7	Front side applicators		3014		—	□	—	—	□	—	—	□	—	—	—	—	—	Package marking
				3016	—	□	—	—	—	—	—	□	—	—	—	—	—	
5.8	Stroke applicators		4014		□	F	—	—	□	—	□	□	□	□	—	—	—	
				4016	—	□	—	—	—	—	—	□	□	—	—	—	—	
5.9	Stroke blow applicator		4614		—	—	—	—	□	—	—	—	—	—	—	—	—	
5.10	Demand module		5114		—	—	—	—	—	—	—	—	—	—	□	—	—	
5.11	Vacuum belt applicators		5314	5316	—	—	—	—	—	—	—	—	—	—	—	□	—	
			5414	5416	—	—	—	—	—	—	—	—	—	—	—	—	—	
5.12	Air jet box		6114		—	—	—	—	—	—	—	—	—	—	—	—	□	

Applicator type code

Type	441	4414L-200	
for label printer	Hermes+ 2	2	
	Hermes+ 4	4	
	Hermes+ 6	6	
Dispensing	to the left	L	
	to the right	R	
Cylinder stroke	200	200	}
	300	300	
	400	400	
	500	500	
	600	600	
	700	700	
	800	800	
	on request		

F Enables the tamp pad to immerse in the surface within the label area.

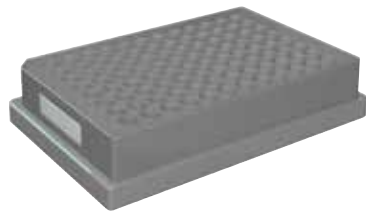
For precise immersion depths see the technical data of the applicators.

Product marking

Swing applicator 3214

to precisely apply very small to medium sized labels in real time. The labels are preferably applied from the side on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. A cylinder rotates to the labeling position. A stroke cylinder applies the label on the product. The angle of rotation and linear stroke are adjustable.



Tamp pad

Labels are applied on flat, even recessed, surfaces



Tamp pad with damping surface

to reduce noise when hard surfaces are processed. It is also recommended with rough structures and minor unevenness.

Tamp pad with label stop

In case small labels are processed, the label stop enables the label to be applied on the product very exactly.



Blow pad

in case of pressure-sensitive surfaces or when products in motion are processed. Air jet blows the label onto the product.

5 - 10 mm distance to the product surface can be adjusted at the stroke cylinder with a stop.

			Tamp pad	Tamp pad with damping surface	Tamp pad with label stop	Blow pad
Technical data			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 during labeling	not in motion				■	
	in motion		-	-	-	■
Labeling on the product	from the side				■	
Product height	steady				■	
Product distance to peel-off plate					250 - 280	
Horizontal linear guidance					5 - 30	
Swing angle					45° - 95°	
Pad immersion depth F	up to mm		30	30	30	-
Compressed air					4.5	
Cycle time ¹⁾					20	

¹⁾ Calculated with label height 40 mm, print speed 100 mm/s

5.1



Product marking

Stroke applicators 4114, 4116

to precisely apply very small to medium sized labels in real time. The labels can be applied from all sides on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. A short stroke cylinder horizontally moves the pad to the labeling position. A stroke cylinder applies the label on the product. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



5.2



Tamp pad

Labels are applied on flat, even recessed, surfaces

Tamp pad with damping surface

to reduce noise when hard surfaces are processed. It is also recommended with rough structures and minor unevenness.

Tamp pad with label stop

In case small labels are processed, the label stop enables the label to be applied on the product very exactly.

Blow pad

in case of pressure-sensitive surfaces or when products in motion are processed. Air jet blows the label onto the product.

5 - 10 mm distance to the product surface can be adjusted at the stroke cylinder with a stop.

			Tamp pad	Tamp pad with damping surface	Tamp pad with label stop	Blow pad
Technical data			4114, 4116 L/R 11 F	4114, 4116 L/R 12 F	4114, 4116 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 during labeling	not in motion			■		
	in motion		-	-	-	■
Labeling on the product	from top			■		
	from below			■		
	from the side			■		
Product height	steady		-	-	-	■
	variable		■	■	■	-
Horizontal short stroke cylinder	mm			10		
Product distance to lower edge of device						
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
Pad immersion depth F ¹⁾	up to mm		100	100	100	-
Compressed air	bar			4.5		
Cycle time ²⁾	approx. labels/min			30		

¹⁾ With applicator immersion depths higher than 25 mm the cover of Hermes+ has to be modified.

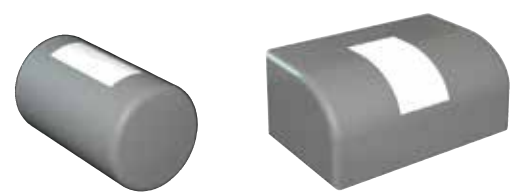
²⁾ Calculated with 100 mm stroke below the device, label height 40 mm, print speed 100 mm/s

Product marking

Stroke applicators 4114, 4116

to precisely apply very small to medium sized labels in real time. The labels can be applied from all sides on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. A short stroke cylinder horizontally moves the pad to the labeling position. A stroke cylinder applies the label on the product. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



Form pad

Labels are precisely applied on cylindric, curved or convex surfaces. To avoid blistering on very smooth and flat surfaces, convex form pads are used. In case of cylindric bodies, label wrapping is possible to a maximum of 200°.

			Form pad	
Technical data		Type	4114, 4116 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 during labeling	not in motion		■	
	in motion		-	
Labeling on the product	from top		■	
	from below		■	
	from the side		■	
Product height		variable	■	
Horizontal short stroke cylinder		mm	10	
Product distance to lower edge of device				
at cylinder stroke 200	up to mm		135	
	300	up to mm	235	
	400	up to mm	335	
Compressed air		bar	4.5	
Cycle time ¹⁾		approx. labels/min	20	

¹⁾ Calculated with 100 mm stroke below the device, label height 40 mm, print speed 100 mm/s
With form pads higher than 25 mm the cover of Hermes+ has to be modified.

Product marking

Stroke turn applicator 4214

to precisely apply very small to medium sized labels when installation is difficult. The labels can be applied from all sides on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. A cylinder horizontally rotates up to 180° to the labeling position. A stroke cylinder applies the label on the product. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



5.3



Tamp pad

Labels are applied on flat, even recessed, surfaces

Tamp pad with damping surface

to reduce noise when hard surfaces are processed. It is also recommended with rough structures and minor unevenness.

Tamp pad with label stop

In case small labels are processed, the label stop enables the label to be applied on the product very exactly.

Blow pad

in case of pressure-sensitive surfaces or when products in motion are processed. Air jet blows the label onto the product.

5 - 10 mm distance to the product surface can be adjusted at the stroke cylinder with a stop.

			Tamp pad	Tamp pad with damping surface	Tamp pad with label stop	Blow pad
Technical data			4214 L/R 11 F	4214 L/R 12 F	4214 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		
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 during labeling	not in motion				■	
	in motion		-	-	-	■
Labeling on the product	from top				■	
	from below				■	
	from the side				■	
Product height	steady		-	-	-	■
	variable		■	■	■	-
Angle of rotation		90°, 0°			■	
		180° with label heights up to 15 mm				
Product distance to lower edge of device 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
Pad immersion depth F ¹⁾	up to mm		65	65	65	-
Compressed air	bar				4.5	
Cycle time ²⁾	approx. labels/min				20	

¹⁾ With applicator immersion depths higher than 25 mm the cover of Hermes+ has to be modified.

²⁾ Calculated with 100 mm stroke below the device, label height 40 mm, print speed 100 mm/s

Product marking

Stroke applicator 4414

to precisely apply very small to medium sized labels in real time. The final position on the product is adjustable in x and y directions. The labels can be applied from all sides on the product.

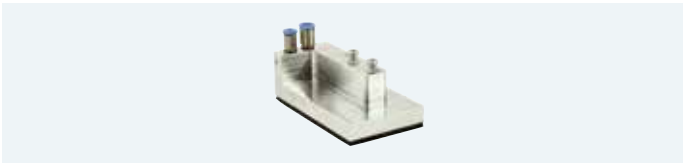
The pad's position is in front of the peel-off plate. The label is held during the printing. Two short stroke cylinders horizontally move the pad to the labeling position. A stroke cylinder applies the label on the product. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



Tamp pad

Labels are applied on flat, even recessed, surfaces

5.4



Tamp pad with damping surface

to reduce noise when hard surfaces are processed. It is also recommended with rough structures and minor unevenness.

Tamp pad with label stop

In case small labels are processed, the label stop enables the label to be applied on the product very exactly.

			Tamp pad	Tamp pad with damping surface	Tamp pad with label stop
Technical data			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	
Label height	Hermes+ 2	mm	4 - 80	8 - 80	4 - 80
	Hermes+ 4	mm		8 - 80	
Product during labeling	not in motion			■	
Labeling on the product	from top			■	
	from below			■	
	from the side			■	
Product height	variable			■	
Horizontal short stroke cylinder	x direction	mm		3 - 7	
	y direction	mm		11 - 15	
Product distance to lower edge of device at cylinder stroke	200	up to mm		135	
	300	up to mm		235	
	400	up to mm		335	
Pad immersion depth F ¹⁾		up to mm		90	
Compressed air		bar		4.5	
Cycle time ²⁾		approx. labels/min		25	

¹⁾ With applicator immersion depths higher than 25 mm the cover of Hermes+ has to be modified.

²⁾ Calculated with 100 mm stroke below the device, label height 40 mm, print speed 100 mm/s

Product marking

Swing stroke applicator 4514

to apply labels on the inside surfaces of profiles and pipes in real time. The final position on the product is adjusted at the stroke cylinder with a stop. The labels can be applied from all sides on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. A cylinder rotates to the labeling level. A stroke cylinder moves the label to the labeling position.



5.5



Blow pad

With 5 - 10 mm distance to the product surface air jet blows the labels onto the product.

Technical data			Blow pad
Type			4514 L/R 2100
Label width	Hermes+ 2	mm	10 - 58
	Hermes+ 4	mm	10 - 80
Label height		mm	10 - 60
Product during labeling	not in motion		■
Labeling on the product	from top		■
	from below		■
	from the side		■
Product height	steady		■
Vertical angle of rotation			120°
Distance from lower edge of device to top edge of label at cylinder stroke 200	up to mm		150 ²⁾
	300	up to mm	250 ²⁾
	400	up to mm	350 ²⁾
Compressed air		bar	4.5
Cycle time ¹⁾	approx. labels/min		20

¹⁾ Calculated with 100 mm stroke below the device, label height 40 mm, print speed 100 mm/s

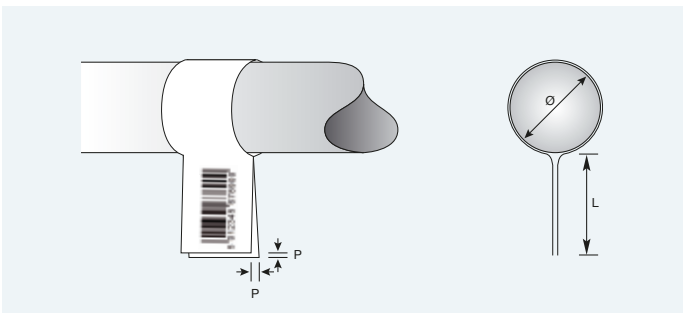
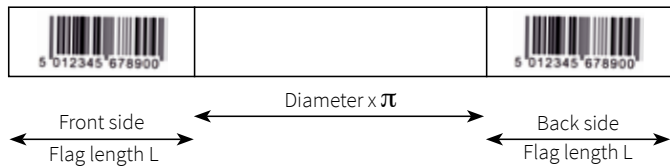
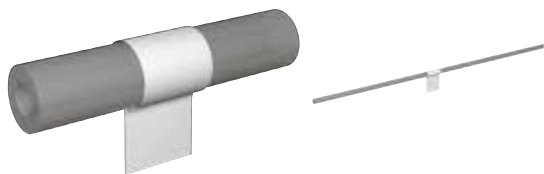
²⁾ depending from the label height

Product marking

Flag applicator 4712

to precisely apply labels on round materials such as cables, tubes, pipes, etc. The labels can be applied from all sides on the product.

The pad's position is in front of the peel-off plate. The label is held during the printing. It is moved to the labeling position with a stroke cylinder. Via cam control, the other cylinder places the label around the round material. First of all, it is stuck together at its ends. It is then pressed onto the round material. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



Technical data		Type	Tamp pad
			4712 L 300
Label width Hermes+ 4		mm	60 - 100
Label height		mm	10 - 50
Diameter		mm	3 - 16
Product during labeling	not in motion		■
Labeling on the product	from top		■
	from below		■
	vertically rotated		0 - 180° clockwise; others on request
	from the side		■
Product height	steady		■
Product distance to lower edge of device	up to mm		260
at cylinder stroke 300			
not less than 70 mm			
Tongs immersion depth	mm		55
Offset P	up to mm		1.0 ²⁾
Compressed air	bar		4.5
Cycle time ¹⁾	approx. labels/min		15

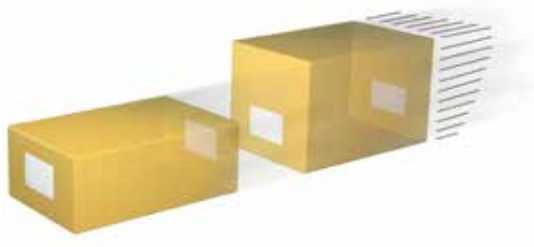
¹⁾ Calculated with print speed 100 mm/s

²⁾ depending from the label quality

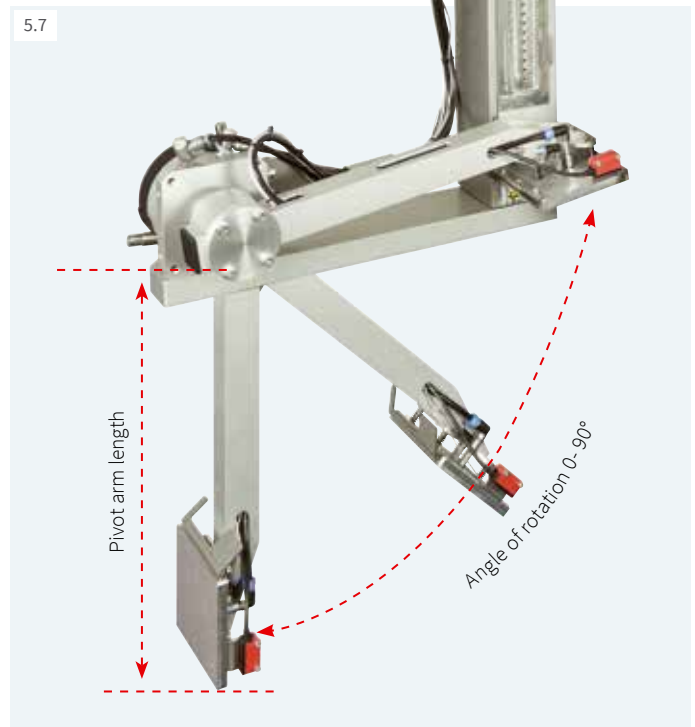
Package marking

Front side applicators 3014, 3016

to apply labels on packaging in motion in real time.
The labels are preferably applied on the front or back side.
Labeling from the top or from the side is possible.
The pad's position is in front of the peel-off plate.
The label is taken over during the printing.



The rotary cylinder applies the label on the product.
A sensor detects the packaging and directs the pivot arm and pad back to its initial position.



Tamp pad

Labels are applied on flat, even recessed, surfaces

Tamp pad spring-mounted

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

With 5- 10 mm distance to the product surface air jet blows the labels onto the product.

			Tamp pad	Tamp pad spring-mounted	Blow pad
Technical data			3014, 3016 L/R 1100	3014, 3016 L/R 3100	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 during labeling	not in motion			■	
	in motion			■	
Labeling on the product	from top			■	
	from the side			■	
	from the front			■	
	from the back			■	
Product height	variable			■	
Pivot arm length ¹⁾	mm			200 / 300 / 400	
Angle of rotation				0 - 90°	
Compressed air	bar			4.5	
Cycle time ²⁾	approx. labels/min			15	

¹⁾ Pivot arm length defines the accessible 90° labeling position (lower edge of the label) beneath the Hermes+ footprint.

²⁾ Calculated with pivot arm length 200 mm, label height 100 mm, print speed 100 mm/s

Package marking

Stroke applicators 4014, 4016

to apply labels on packaging or products in real time. Depending from the type of pad, the product is either in motion or not in motion during printing. The labels can be applied from all sides.

The pad's position is in front of the peel-off plate. The label is held during the printing. A stroke cylinder applies the label on the product. A sensor detects the product and directs the pad back to its initial position. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



5.8



Tamp pad

Labels are applied on flat, even recessed, surfaces

Universal pad

Labels are pressed onto flat surfaces. Pre-drilled holes to suck the labels are provided in distances of 5 mm and are covered by a sliding film. They are opened with a punching tool according to the label size. Two films are included in delivery as substitution.

Tamp pad spring-mounted

Labeling on surfaces with an inclination of up to 15° is enabled by a spring-mounted suction plate. Vertical deviation may be up to 10 mm within the label area.

Universal pad spring-mounted

Labeling on surfaces with an inclination of up to 15° is enabled by a spring-mounted suction plate. Vertical deviation may be up to 10 mm within the label area. Pre-drilled holes to suck the labels are provided in distances of 5 mm and are covered by a sliding film. Two films are included in delivery as substitution.

			Tamp pad	Universal pad	Tamp pad spring-mounted	Universal pad spring-mounted
Technical data			4014, 4016 L/R 11 F	4014 L/R 1100	4014, 4016 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 during labeling	not in motion				■	
Labeling on the product	from top				■	
	from below				■	
	from the side				■	
Product height	variable				■	
Product distance to lower edge of device 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
Pad immersion depth F ¹⁾	up to mm		120	-	-	-
Compressed air	bar				4.5	
Cycle time ²⁾	approx. labels/min				25	

¹⁾ With applicator immersion depths higher than 25 mm the cover of Hermes+ has to be modified.

²⁾ Calculated with 100 mm stroke below the device, label height 100 mm, print speed 100 mm/s

Package marking

Stroke applicators 4014, 4016

to apply labels on packaging or products in real time. Depending from the type of pad, the product is either in motion or not in motion during printing. The labels can be applied from all sides.

The pad's position is in front of the peel-off plate. The label is held during the printing. A stroke cylinder applies the label on the product. A sensor detects the product and directs the pad back to its initial position. The length of the stroke cylinder defines the maximum distance between the peel-off plate and the product.



5.8



Blow pad

in case of pressure-sensitive surfaces or when products in motion are processed. Air jet blows the label onto the product.

5 - 10 mm distance to the product surface can be adjusted at the stroke cylinder with a stop.

Roll-on pad

Labels are rolled on flat product surfaces in motion.

Corner-wrap pad

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

			Blow pad	Roll-on pad	Corner-wrap pad
Technical data			4014 L/R 2100	4014, 4016 L/R 4100	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 during labeling	not in motion		■	-	■
	in motion		■	■	-
Labeling on the product	from top			■	
	from below		■	■	-
	from the side		■	■	-
Product height	steady		■	-	-
	variable		-	■	■
Product distance to lower edge of device					
at cylinder stroke 200	up to mm		140	160	100
	300	up to mm	240	260	200
	400	up to mm	340	360	300
Compressed air				4.5	
Cycle time ¹⁾			approx. labels/min	25	20

¹⁾ Calculated with 100 mm stroke below the device, label height 100 mm, print speed 100 mm/s

Package marking

Stroke blow applicator 4614

to apply labels on packages of different heights in motion in real time. The labels can be applied from all sides.

The pad's position is in front of the peel-off plate. The label is held during the printing. By means of a sensor, the pad is moved to approximately 10 mm above the product by the stroke cylinder. The length of the stroke cylinder defines the maximum difference in height between the packages.



Blow pad
With 5 - 10 mm distance to the product surface air jet blows the labels onto the product.

Technical data			Blow pad
Type			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 during labeling	not in motion		■
	in motion		■
Labeling on the product	from top		■
	from below		■
	from the side		■
Product height	steady		■
	variable		■
Product distance to lower edge of device at cylinder stroke	200	up to mm	140
	300	up to mm	240
	400	up to mm	340
Compressed air		bar	4,5
Cycle time ¹⁾		approx. labels/min	25

¹⁾ Calculated with 100 mm stroke below the device, label height 100 mm, print speed 100 mm/s

Package marking

Demand module 5114

for serial labeling applications in motion. With the rewind assist roller the label position is adjusted at the dispenser tongue.

The labels can be applied from all sides. Printing and labeling is done simultaneously. The speed of the conveyor belt has to be adapted to the print speed.



5.10



		Demand module	
Technical data	Type	5114 L/R	
Label width Hermes+ 4	mm	25 - 114	
Label height	mm	25 - 250	
Distance from print line to peel-off plate	mm	400 - 600	
Product during labeling	in motion	■	
Labeling on the product	from top	■	
	from below	■	
	from the side	■	
Product height	steady	■	
Product distance to lower edge of device	mm	80	
Product speed	mm/s	needs to coincide with the print speed / 50 - 250 in steps of 25	
Cycle time ¹⁾	approx. labels/min	60	

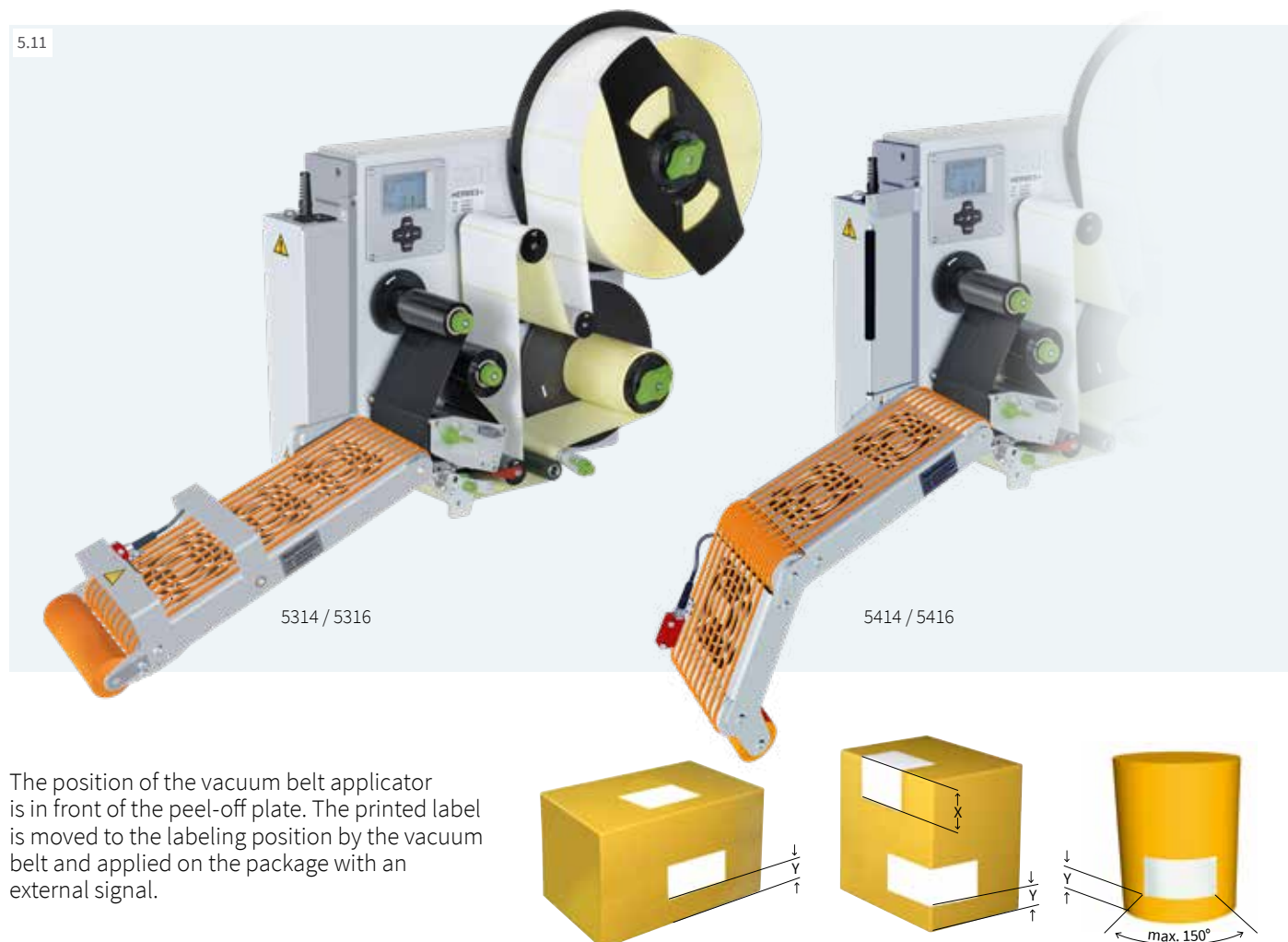
¹⁾ Calculated with label height 100 mm, print speed 100 mm/s

Package marking

Vacuum belt applicators 5314, 5316 and 5414, 5416

to apply labels on packaging or products in motion in real time.

The labels can be applied from all sides on a flat surface, a cylinder resp. corner-wrap.



			Vacuum belt applicator			
Technical data		Type	5314-3	5316-3	5414-3	5416-3
Labeling			On the surface		On the surface, a cylinder and corner-wrap	
Dispensing to			left and right			
Label width	Hermes+ 4	mm	20 - 114	-	20 - 114	-
	Hermes+ 6	mm	-	46 - 174	-	46 - 174
Label height		mm	60 - 356	60 - 356	80 - 356	80 - 356
Product during labeling	in motion					
Labeling on the product	from top					
	from below				-	-
	from the side					
Product height	steady					
	variable		-			
Product speed	up to m/s		0.5	0.5	0.3	0.3
Gap from one product to the next	not less than m		0.5			
Stability at application level			-	-	F = 30 N	F = 30 N
Corner-wrap labeling	up to mm		-	-	Parameter X = 160	Parameter X = 160
Vacuum belt speed ¹⁾	mm/s		50 - 500			
Cycle time ²⁾	up to labels/min		30	30	15	15
Label distance to conveyor belt when labeling from the side	mm		Parameter Y = 20			

¹⁾ The product speed has to be higher than the vacuum belt speed. / ²⁾ Calculated with label height 100 mm, print speed 250 mm/s

Package marking

Air jet box 6114

for quickly labeling in motion or not in motion. The labels are sucked by a fan and blown off via powerful air jet through nozzles. Depending from the label size, the maximum distance between the product and the peel-off plate is 200 mm.

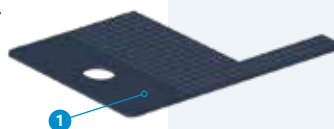
5.12



1 Template

to cover the suction and air jet holes around the label

It is pre-scored in a hole pattern of 8 x 8 mm and can be easily adapted to the label size. By sliding in between the suction block and the slide bars, the area around the label is covered. Five templates are included in the scope of delivery.



Technical data		Air jet box	
Type		6114 L/R	
Label width Hermes+ 4	mm	50 -114	smaller sizes on request
Label height	mm	50 -125	smaller sizes on request
Product during labeling	not in motion	■	
	in motion	■	
Labeling on the product	from top	■	
	from below	■	
	from the side	■	
Product height	variable	■	
Product distance to peel-off plate	up to mm	200	
Compressed air	bar	4,5 - 6	
Cycle time ¹⁾	up to labels/min	120	

¹⁾ Calculated with label height 30 mm, print speed 250 mm/s

Overview of accessories

■ Standard □ Option

Hermes+ extra equipment		Hermes+ 2	Hermes+ 4	Hermes+ 6
2.1	Cover (only with label rolls up to outside diameter 205 mm)	□	□	□
2.2	External operation panel	□	□	□
2.3	Standard keyboard DE	□	□	□
2.4	Memory card CompactFlash Type I	□	□	□
2.5	Product sensor 25 pin, to connect Hermes+	□	□	□
2.6	Product sensor 3 pin, to connect a front side applicator, vacuum belt applicator, air jet box	-	□	-
2.7	I/O interface connector	□	□	□
2.8	Warning light	□	□	□
2.9	Circular connector 3 pin M8 / 4 pin M8	□	□	□
2.10	Extended peel-off plate +10 mm	□	□	□
2.11	Margin stop	□	□	□
2.12	Antistatic brush	□	□	-
Interfaces				
3.1	Centronics bi-directional according to IEEE 1284	□	□	□
3.2	RS422 / RS485 1,200 to 230,400 baud/8 bit	□	□	□
3.3	Label selection - I/O box	□	□	□
3.4	I/O interface adapter	□	□	□
Connecting cables				
4.1	Connecting cable RS232-C, 9/9 pin, length 3 m	□	□	□
4.2	Patch cable CAT5e, length 3 m, grey	□	□	□

Applicators extra equipment		Type	30	32	40	41	42	44	45	46	61
5.13	Blow tube		□	□	□	□	□	□	□	□	□
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		-	□	□	□	□	□	-	-	-

Mounting equipment		Hermes+ 2	Hermes+ 4	Hermes+ 6
6.1	Adapter plate	□	□	□
6.2	Profile 40 / 80 / 120 mm - customized length	□	□	□
6.3	Base plate 500 x 255 mm	□	□	-
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	Floor stand 1601	□	□	□
6.9	Floor stand 1602	□	□	□
Software				
7.1	JScript direct programming	■	■	■
7.2	Replace files and integration in SAP R/3	■	■	■
7.3	abc Basic Compiler	■	■	■
7.4	Printer control in Intranet und Internet	■	■	■
7.5	Database Connector	■	■	■
7.6	Label software cablabel S3 Lite	■	■	■
	Label software cablabel S3 Pro	□	□	□
	Label software cablabel S3 Print	□	□	□
7.7	Network Manager	■	■	■
7.8	Printer drivers Windows	■	■	■
7.9	Printer drivers Apple Mac OS X, Linux	■	■	■
7.10	Programming manual	■	■	■

Extra equipment, interfaces, connecting cables

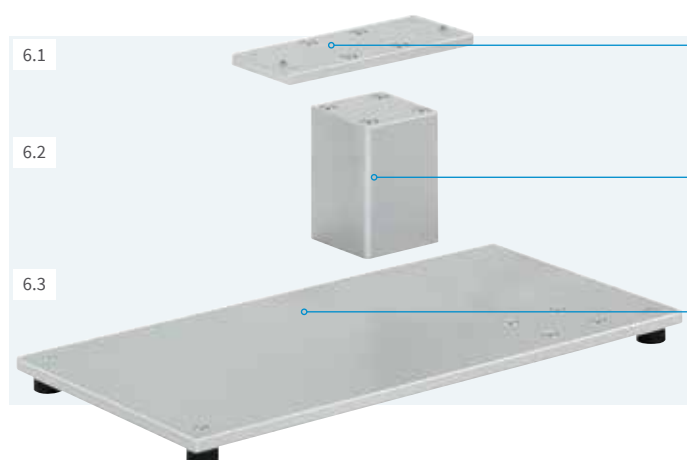
Extra equipment Hermes+	
2.1	 Cover to protect from dirt and accidental contact. With applicator immersion depths higher than 25 mm the cover has to be modified; approved for vertical installation
2.2	 External operation panel If the operation panel is not accessible after printer installation, an external one can be additionally connected. A slot to plug-in a CompactFlash Type 1 memory card and a USB host interface are also in place.
2.3	 Standard keyboard DE USB connection, 115 keys
2.4	 Memory card CompactFlash Type I to store label formats, fonts, text and graphics; readable and writable in the printer or at a PC
2.5	 Product sensor 25 pin to connect Hermes+; if a product has been detected, for example on a conveyor belt, labeling is started
2.6	 Product sensor 3 pin to connect a front side applicator, vacuum belt applicator, air jet box; if a product has been detected, for example on a conveyor belt, labeling is started
2.7	 I/O interface connector with screw terminals to connect all control signals at the Hermes+ I/O interface
2.8	 Warning light In addition to the display, the warning light indicates the printer status: Red Error printer or labeler Yellow Pre-warning end of ribbon Green Device switched on It is mounted directly at the printer, the bracket or anywhere else within the working area; connecting cable: length 1 m
2.9	 Circular connector 3 pin M8 / 4 pin M8
2.10	 Extended peel-off plate +10 mm for labels that are hard to remove; available on request
2.11	 Margin stop to guide material if narrow labels are processed
2.12	 Antistatic brush Particularly with plastic materials the electrostatic charge is discharged after printing.

Interfaces	
3.1	 Centronics bi-directional according to IEEE 1284
3.2	 RS422 / RS485 1,200 to 230,400 baud/8 bit
3.3	 Label selection - I/O box Via a master control, for example PLC, up to 16 different labels can be selected from the memory card.
3.4	 I/O interface adapter to adapt the 15 pin connector of a Hermes A system to the 25 pin connector of Hermes+
Connecting cables	
4.1	 Connecting cable RS232-C 9/9 pin, length 3 m
4.2	 Patch cable CAT5e Length 3 m, grey
Extra equipment applicators	
5.13	 Blow tube
5.14	 Air pressure regulation unit to be mounted directly at Hermes+ or the bracket; default setting 4.5 bar
5.15	 Air pressure regulation unit with main valve If the apply system is integrated in a unit, compressed air needed by the applicator can be externally switched on and off; default setting 4.5 bar only if combined with an E-stop
5.16	 Air pressure regulation unit with shut-off valve for fully venting the hose lines next to the air pressure regulation unit when the air jet box 6114 is in use
5.17	Compressed air regulator to reduce the tamp force of stroke applicators

Mounting equipment

Mounting foot

to assemble a Hermes+ on a table or within a production line. It is available in a left and right hand version. If needed, the size of the mounting foot can be tailored to the application.



1 Adapter plate

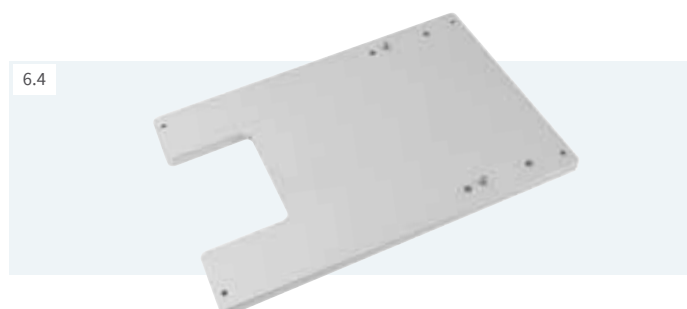
The apply system can be fixed on the adapter plate. It may also be mounted with the adapter plate and the profile directly in the production line.

2 Profile

Aluminum square profile, standard lengths 40, 80, 120 mm; customized lengths are possible on request

3 Base plate

to fix the printer holder; standard length 500 x 255 mm



Mounting plate

to fix the label printer directly in the production line

Mounting equipment

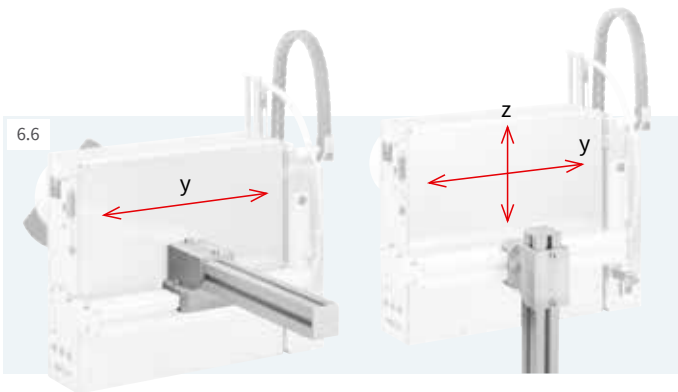
6.5



Bracket

to assemble Hermes+ at the floor stand

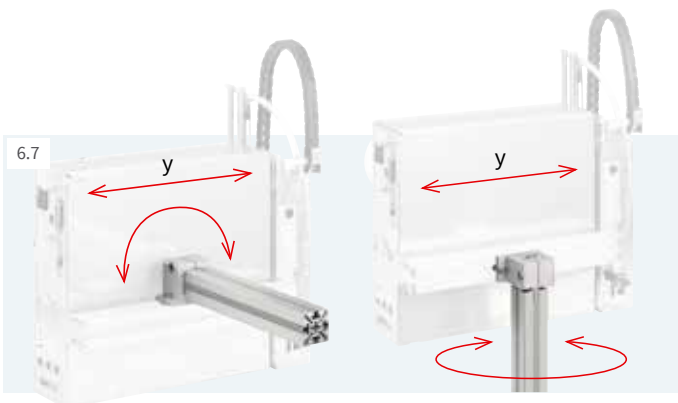
6.6



Clamped joint for profile 50 x 50 mm

to move the apply system in horizontal and vertical direction

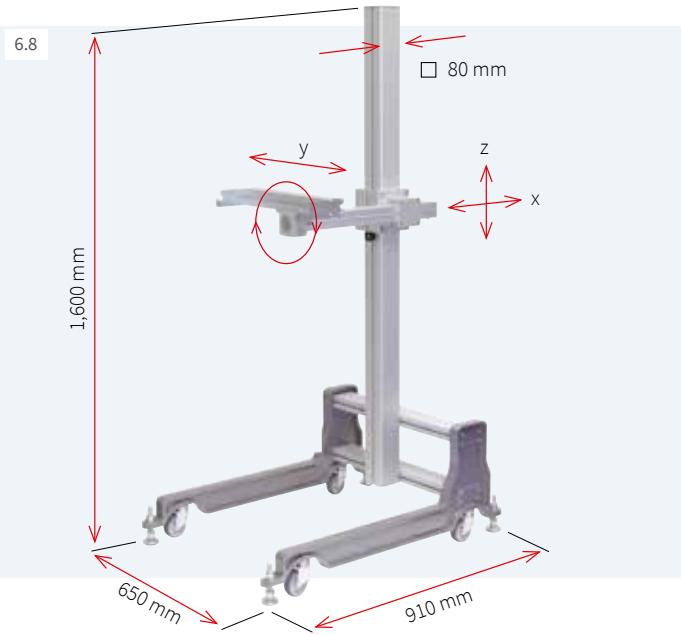
6.7



Flanged joint for profile 50 x 50 mm

to move the apply system in horizontal direction and rotate it around one axis

Floor stands

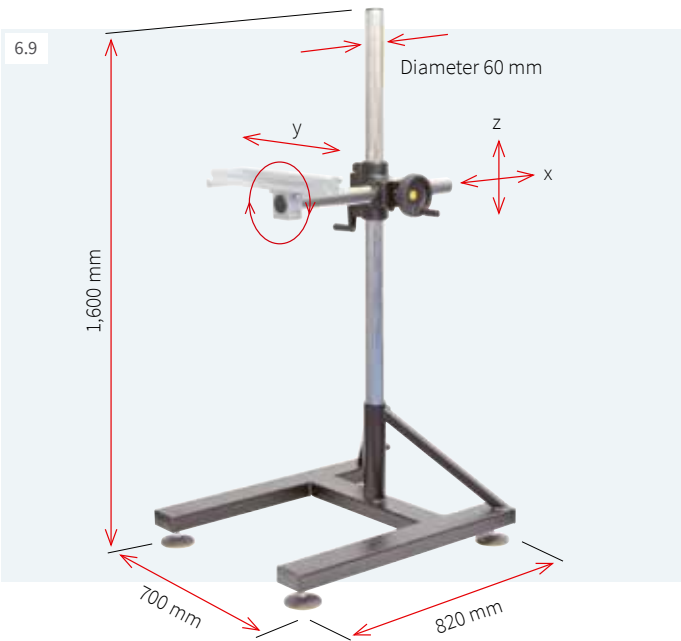


Floor stands help with installing all Hermes+ print and apply systems in a production line. By means of the adjustability the Hermes+ can be arranged in three axes to the product that has to be labeled. Rotation is also possible.

Floor stand 1601

Preferred use is with applications in different production lines. The floor stand is moveable and can be aligned with adjustable feet at the place of application.

		Floor stand	
		1601	
Technical data	Type	Guide rollers and adjustable feet	
Base frame		Screw terminals	
Adjustment of height and depth			
Load in case of offset 500 mm	up to kg	50	
Weight	kg	36	



Floor stand 1602

Preferred use is with applications in which the heights and depths of the labeling position have to be changed frequently. By means of the toothed rack construction Hermes+ can be arranged in x and z direction to the product.

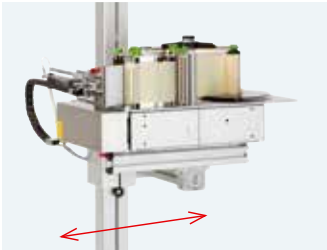
		Floor stand	
		1602	
Technical data	Type	Adjustable feet	
Base frame		Toothed rack / Crank	
Adjustment of height of depth		Toothed rack / Handwheel	
Load in case of offset 500 mm	up to kg	50	
Weight	kg	38	

Samples for printer assembly

Labeling in direction of transport

from top

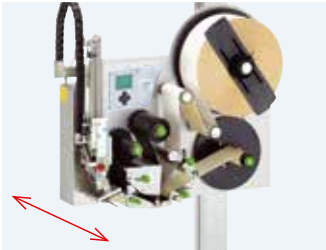
from the side



Labeling crosswise direction of transport

from top

from the side



Label software cablabel S3



The intuitive **cablabel S3** user interface provides different date formats, mathematical or logic functions.

- 1 Toolbar**
to create different label objects
- 2 Tabs**
to quickly switch from one running label design to another
- 3 Layers**
to manage different label objects
- 4 Designer**
Label display in WYSIWYG mode to simplify the design
- 5 Printer spooler**
to monitor all print jobs and printer status
- 6 Drivers**
to manage settings and the communication with devices

Designing, printing, monitoring with cablabel S3

cablabel S3 opens up the full potential of cab devices.

First of all the label must be designed. Only when it comes to printing it has to be decided whether the label shall be processed on a label printer, a print and apply or marking laser system.

cablabel S3 is of a modular design which makes it adaptable to requirements step by step. To support functions like native JScript programming elements such as the JScript Viewer are embedded as plug-ins. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be integrated.

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

Printing in stand-alone operation

This operating mode is the printer's ability to select and print labels even when it is not connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are saved or read on a memory card, a USB memory stick or in the internal IFFS storage.

Only variable data are sent to the printer via a keyboard, barcode scanner, weighing or other host systems. With the Database Connector, these data are recalled from the host and printed.

Printer drivers

To control the printer with a software other than cablabel S3, cab provides drivers in 32 / 64 bit for operating systems starting from Windows Vista, Mac OS X 10.6 and Linux with CUPS 1.2.



Windows¹⁾ drivers

cab printer drivers are certified according to WHQL. They ensure optimum stability on the Windows operating system.

Mac OS X²⁾ drivers

cab provides CUPS-based printer drivers for Mac OS X applications.

Linux drivers

Linux drivers are CUPS-based

Drivers are offered on the DVD delivered with the printer and for free download at www.cab.de/en/support

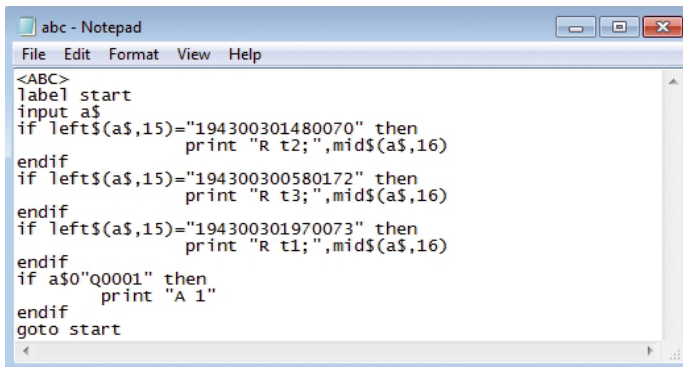
Printer programming

J	Job Start
H 100	Speed (100 mm / s)
O R	Orientation rotated by 180°
S 11;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)



JScript

To control the printer cab has developed the embedded programming language JScript. See manual for free download at www.cab.de/en/programming



abc Basic Compiler

In addition to JScript and as an integral part of the firmware it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job.

Also data from other systems such as a scale, a barcode scanner or PLC can be integrated.



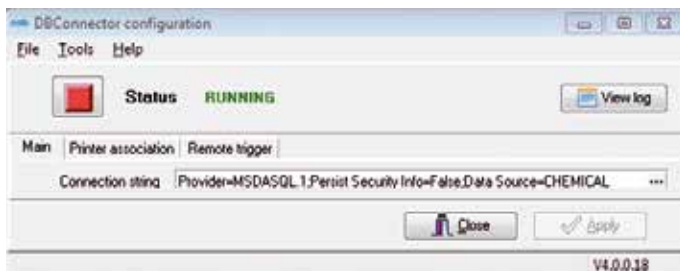
¹⁾ Windows is a registered trademark of Microsoft Corporation ²⁾ MAC OS X is a registered trademark of Apple Computer, Inc.

Printer integration



Printer Vendor Program

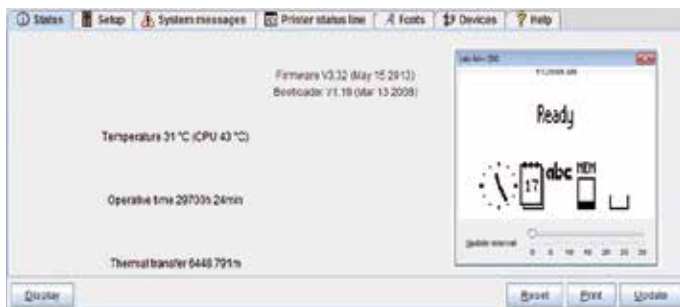
As a partner in SAP's¹⁾ Printer Vendor Program cab has developed a replace method to enable easy control of a cab printer via SAPScript from SAP R/3. Only variable data is sent to the printer by the host. Pictures and fonts that priorly had been stored in the local memory (IFFS, memory card, etc.) are merged.



Database Connector

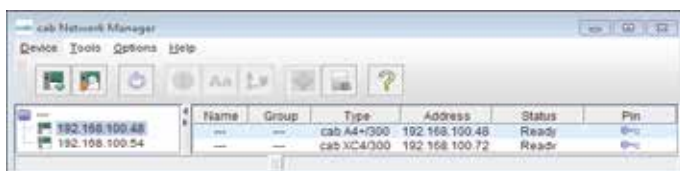
Printers connected to a network may directly access data from a central ODBC- or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.

Printer administration



Configuration in Intranet and Internet

The HTTP and FTP server integrated in the printer via standard programs like a web browser or FTP clients allows printer control and configuration, firmware updates and memory card administration. Via email or SNMP, the SNMP and SMTP client datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.



Network Manager

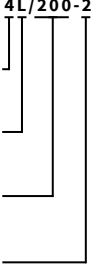
It is possible to simultaneously manage several printers within the network. Control, configuration, firmware updates, memory card administration, data synchronization and PIN administration are supported from one single location.

¹⁾ SAP and all corresponding logos are trademarks or registered trademarks of SAP SE.

Delivery program printers

Pos.	Part no.	Devices L	Part no.	Wear parts	Part no.	Wear parts	Part no.	Wear 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 4/203	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955505	Label printer Hermes+ 4L/300-2	5954072.001	Print head 4/300				
	5955506	Label printer Hermes+ 4L/600-2	5954077.001	Print head 4/600	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955507	Label printer Hermes+ 4.3L/200-2	5954085.001	Print head 4.3/203				
	5955508	Label printer Hermes+ 4.3L/300-2	5954089.001	Print head 4.3/300				
	1.3 5955509	Label printer Hermes+ 6L/200-2	5954217.001	Print head 6/203	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6
	5955510	Label printer Hermes+ 6L/300-2	5956322.001	Print head 6/300				
	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 4/203	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955512	Label printer Hermes+ 4L/300-3	5954072.001	Print head 4/300				
	5955513	Label printer Hermes+ 4L/600-3	5954077.001	Print head 4/600	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955514	Label printer Hermes+ 4.3L/200-3	5954085.001	Print head 4.3/203				
	5955515	Label printer Hermes+ 4.3L/300-3	5954089.001	Print head 4.3/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	1.3 5955516	Label printer Hermes+ 6L/200-3	5954217.001	Print head 6/203				
	5955517	Label printer Hermes+ 6L/300-3	5956322.001	Print head 6/300	5954245.001	Print roller DR6	5961220.001	Drawing roller ZR6
Pos.	Part no.	Devices R	Part no.	Wear parts	Part no.	Wear parts	Part no.	Wear 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 4/203	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955755	Label printer Hermes+ 4R/300-2	5954072.001	Print head 4/300				
	5955756	Label printer Hermes+ 4R/600-2	5954077.001	Print head 4/600	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955757	Label printer Hermes+ 4.3R/200-2	5954085.001	Print head 4.3/203				
	5955758	Label printer Hermes+ 4.3R/300-2	5954089.001	Print head 4.3/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	1.3 5955759	Label printer Hermes+ 6R/200-2	5954217.001	Print head 6/203			5961220.001	Drawing roller ZR6
	5955760	Label printer Hermes+ 6R/300-2	5956322.001	Print head 6/300	5954245.001	Print roller DR6		
	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 4/203	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955762	Label printer Hermes+ 4R/300-3	5954072.001	Print head 4/300				
	5955763	Label printer Hermes+ 4R/600-3	5954077.001	Print head 4/600	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	5955764	Label printer Hermes+ 4.3R/200-3	5954085.001	Print head 4.3/203				
	5955765	Label printer Hermes+ 4.3R/300-3	5954089.001	Print head 4.3/300	5954180.001	Print roller DR4	5961298.001	Drawing roller ZR4
	1.3 5955766	Label printer Hermes+ 6R/200-3	5954217.001	Print head 6/203			5961220.001	Drawing roller ZR6
	5955767	Label printer Hermes+ 6R/300-3	5956322.001	Print head 6/300	5954245.001	Print roller DR6		

Pos.	Part no.	Device 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	Roll core diameter 40 mm only with label printers Hermes+ 2 and Hermes+ 4
	5961406	Adapter for core diameter 50 mm
		„x“ - choose device from Pos. 1.1-1.3

Type code			
Label printer Hermes+			4L/200-2
Label width	58 mm	2	
	114 mm	4	
	174 mm	6	
Dispensing to	left	L	
	right	R	
Printable resolution	203 dpi	200	
	300 dpi	300	
	600 dpi	600	
for label roll outside diameter up to 205 mm		2	
for label roll outside diameter up to 305 mm		3	

¹⁾ Maximum label roll outside diameter 205 mm

²⁾ Only with Hermes+ 4 and Hermes+ 6

With tamp pad immersion depths higher than 25 mm, the cover of Hermes+ has to be modified.

Scope of delivery	
DVD:	Label printer Power cable Type E+F, length 1,8 m Connecting cable USB, length 1,8 m Operator's manual DE / EN Operator's manual DE / EN / FR Configuration manual DE / EN / FR Service manual DE / EN Spare parts list DE / EN Programming manual EN WHQL certified Windows printer drivers for Windows Vista Server 2008 Windows 7 Server 2008 R2 Windows 8 Server 2012 Windows 8.1 Server 2012 R2 Windows 10 Server 2016 Label software cablabel S3 Lite Label software cablabel S3 Viewer

Delivery program applicators and transfer modules

Pos.		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 surface Tamp pad with label stop Blow pad 3214L-11 F W x H 3214L-12 F W x H 3214L-61 F W x H 3214L-2100 W 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 surface Tamp pad with label stop Blow pad Form pad 4114L-11 F W x H 4114L-12 F W x H 4114L-61 F W x H 4114L-2100 W x H 4114L-8800 W 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 surface Tamp pad with label stop Form pad 4116L-11 F W x H 4116L-12 F W x H 4116L-61 F W x H 4116L-8800 W 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 surface Tamp pad with label stop Blow pad 4214L-11 F W x H 4214L-12 F W x H 4214L-61 F W x H 4214L-2100 W 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 surface Tamp pad with label stop 4414L-11 F W x H 4414L-12 F W x H 4414L-61 F W 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 W 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 Tamp pad spring-mounted Blow pad 3014L-1100 W x H 3014L-3100 W x H 3014L-2100 W x H
		5970103 5970104 5970105	Front side applicator 3016L-200 Front side applicator 3016L-300 Front side applicator 3016L-400		XXXXXXX XXXXXXX	Tamp pad Tamp pad spring-mounted 3016L-1100 W x H 3016L-3100 W 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 Universal pad spring-mounted Universal pad spring-mounted 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 Tamp pad spring-mounted Roll-on pad Corner-wrap pad 4014L-11 F W x H 4014L-2100 W x H 4014L-3100 W x H 4014L-4100 W x H 4014L-5100 W x H / H
		5966161 5966162 5966163	Stroke applicator 4016L-200 Stroke applicator 4016L-300 Stroke applicator 4016L-400		XXXXXXX XXXXXXX XXXXXXX	Tamp pad Tamp pad spring-mounted Roll-on pad 4016L-11 F W x H 4016L-3100 W x H 4016L-4100 W 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 4614L-2100 W x H
5.10		5966144	Demand module 5114L			
5.11		5972730 5972750	Vacuum belt applicator 5314L-3 Vacuum belt applicator 5316L-3			
		5972940 5972920	Vacuum belt applicator 5414L-3 Vacuum belt applicator 5416L-3			
5.12		5984810	Air jet box 6114L		5984709.001	Template 6114 L/R

XXXXXXX - user specific part no. following request

Delivery program applicators and transfer modules

Pos.		Part no.	Applicators R		Part no.	Transfer modules
5.1		5971655	Swing applicator 3214R-40		XXXXXX XXXXXX XXXXXX XXXXXX	Tamp pad Tamp pad with damping surface Tamp pad with label stop Blow pad 3214R-11 F W x H 3214R-12 F W x H 3214R-61 F W x H 3214R-2100 W x H
5.2		5966113 5966114 5966115 5972018 5972019 5972020	Stroke applicator 4114R-200 Stroke applicator 4114R-300 Stroke applicator 4114R-400 Stroke applicator 4116R-200 Stroke applicator 4116R-300 Stroke applicator 4116R-400		XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	Tamp pad Tamp pad with damping surface Tamp pad with label stop Blow pad Form pad Tamp pad Tamp pad with damping surface Tamp pad with label stop Form pad 4114R-11 F W x H 4114R-12 F W x H 4114R-61 F W x H 4114R-2100 W x H 4114R-8800 W x H 4116R-11 F W x H 4116R-12 F W x H 4116R-61 F W x H 4116R-8800 W x H
5.3		5966121 5966122 5966123	Stroke turn applicator 4214R-200 Stroke turn applicator 4214R-300 Stroke turn applicator 4214R-400		XXXXXX XXXXXX XXXXXX XXXXXX	Tamp pad Tamp pad with damping surface Tamp pad with label stop Blow pad 4214R-11 F W x H 4214R-12 F W x H 4214R-61 F W x H 4214R-2100 W x H
5.4		5966137 5966138 5966139	Stroke applicator 4414R-200 Stroke applicator 4414R-300 Stroke applicator 4414R-400		XXXXXX XXXXXX XXXXXX	Tamp pad Tamp pad with damping surface Tamp pad with label stop 4414R-11 F W x H 4414R-12 F W x H 4414R-61 F W x H
5.5		5966950 5971460 5971700	Swing stroke applicator 4514R-200 Swing stroke applicator 4514R-300 Swing stroke applicator 4514R-400		XXXXXX	Blow pad 4514R-2100 W x H
5.7		5970106 5970107 5970108 5970109 5970110 5970111	Front side applicator 3014R-200 Front side applicator 3014R-300 Front side applicator 3014R-400 Front side applicator 3016R-200 Front side applicator 3016R-300 Front side applicator 3016R-400		XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	Tamp pad Tamp pad spring-mounted Blow pad Tamp pad Tamp pad spring-mounted 3014R-1100 W x H 3014R-3100 W x H 3014R-2100 W x H 3016R-1100 W x H 3016R-3100 W x H
5.8		5966105 5966106 5966107 5966165 5966166 5966167	Stroke applicator 4014R-200 Stroke applicator 4014R-300 Stroke applicator 4014R-400 Stroke applicator 4016R-200 Stroke applicator 4016R-300 Stroke applicator 4016R-400		5966140 5966141 5966142 5966143 XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	Universal pad Universal pad Universal pad spring-mounted Universal pad spring-mounted Tamp pad Blow pad Tamp pad spring-mounted Roll-on pad Corner-wrap pad Tamp pad Tamp pad spring-mounted Roll-on pad 4014R-1100 75 x 60 4014R-1100 90 x 90 4014R-3100 116 x 102 4014R-3100 116 x 152 4014R-11 F W x H 4014R-2100 W x H 4014R-3100 W x H 4014R-4100 W x H 4014R-5100 W x H / H 4016R-11 F W x H 4016R-3100 W x H 4016R-4100 W x H
5.9		5971735 5971740 5971745	Stroke blow applicator 4614R-200 Stroke blow applicator 4614R-300 Stroke blow applicator 4614R-400		XXXXXX	Blow pad 4614R-2100 W x H
5.10		5966145	Demand module 5114R			
5.11		5972740 5972760 5972950 5972930	Vacuum belt applicator 5314R-3 Vacuum belt applicator 5316R-3 Vacuum belt applicator 5414R-3 Vacuum belt applicator 5416R-3			
5.12		5984800	Air jet box 6114R		5984709.001	Template 6114 L/R

XXXXXX - user specific part no. following request

Delivery program accessories

Pos.		Part no.	Hermes+ extra equipment	
2.1		5961000.001 5961070.001 5961193.001	Cover 2L Cover 4L Cover 6L	With tamp pad immersion depths higher than 25 mm, the cover of Hermes+ has to be modified.
		5961190.001 5961187.001 5961196.001	Cover 2R Cover 4R Cover 6R	
2.2		5954380	External operation panel	
2.3		5901626	Standard keyboard DE	
2.4		5561043	Memory card CompactFlash Type I	
2.5		5964300	Product sensor 25 pin	
2.6		5970071	Product sensor 3 pin	
2.7		5917651	I/O interface connector SUB-D, 25 pin	
2.8		5961237.001	Warning light	
2.9		5918092 5918003	Circular connector 3 pin M8 Circular connector 4 pin M8	
2.10		5961625 5961624 5961658	Extended peel-off plate Hermes+ 2 Extended peel-off plate Hermes+ 4 Extended peel-off plate Hermes+ 6	
2.11		5961650	Margin stop	
2.12		5961640 5961642 5961644 5961646	Antistatic brush Hermes+ 2L Antistatic brush Hermes+ 2R Antistatic brush Hermes+ 4L Antistatic brush Hermes+ 4R	
Pos.		Part no.	Interfaces	
3.1		5954200	Centronics	
3.2		5954201	RS422 / RS485	
3.3		5948205	Label selection - I/O-Box	
3.4		5961349	I/O interface adapter	
Pos.		Part no.	Connecting cables	
4.1		5550818	Connecting cable RS232-C 9/9 pin, length 3 m	
4.2		5918008	Patch cable CAT 5e, length 3 m, grau	
Pos.		Part no.	Applicators extra equipment	
5.13		5964277.001 5964095.001 5964614.001	Blow tube 2" Blow tube 4" Blow tube 6"	
5.14		5955735	Air pressure regulation unit L	
		5955736	Air pressure regulation unit R	

Pos.		Part no.	Applicators extra equipment	
5.15		5955737	Air pressure regulation unit L with additional main valve	
		5955738	Air pressure regulation unit R with additional main valve	
5.16		5984805	Air pressure regulation unit L 3/8" 6114L with shut-off valve	
		5984795	Air pressure regulation unit R 3/8" 6114R with shut-off valve	
5.17		596xxxx.212	Compressed air regulator	
Pos.		Part no.	Mounting equipment	
6.1		5965940	Adapter plate	
6.2		on request	Profile (customized length)	
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	Floor stand 1601	
6.9		5970112	Floor stand 1602	
Pos.		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	
		In preparation	cablabel S3 Print Server	
7.10		9008486	Programming manual EN, printed copy	

Services

Well-trained cab service engineers worldwide support in the maintenance and repair of the devices.

Send your printer to a cab service center or a cab service partner selected by us. Your device will be checked and repaired within few workdays. If requested, a loan device will be offered.

You prefer maintenance and repair on-site in your company? Then make an appointment with our Services Department:

Phone **+49 721 6626 300**, Email: **service.de@cab.de**

Trainings

Enhance your know-how on cab devices with regard to an effective use, service and repair.

In Karlsruhe we offer trainings on the handling of the devices, label design, software, printer drivers, programming, database access as well as on how to integrate in networks or superior ERP systems. We gladly send you detailed information on all our current training offers on request.

Individually we offer trainings according to your specific demands - in Karlsruhe or on-site in your company.



cab Product overview

Label printers MACH1, MACH2
in the lower price segment



Label printers MACH 4S
where little space is available



Label printers EOS1
Desktop device for label rolls
up to diameter 152 mm



Label printers EOS4
Desktop device for label rolls
up to diameter 203 mm



Label printers SQUIX 2
Industrial device for print widths
up to 57 mm



Label printers SQUIX 4
Industrial device for print widths
up to 108 mm



Label printers SQUIX 6
Industrial device for print widths
up to 168 mm



Label printers A8+
Industrial device for print widths
up to 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 labeling machines



Labels
made from more than 400 materials



Ribbons
in wax, resin and resin/wax qualities



Label software cablabel S3
Design, print, control



Label dispensers HS, VS
for horizontal or vertical dispense



Labeling heads IXOR
to be integrated in labeling machines



Marking lasers FL+
with output powers 10 to 50 Watt



Laser marking systems XENO 1
for single workpieces and series



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