cab
we identify more

Products need labeling

Print and apply systems

Hermes⁺
Made in Germany

cab

Hermes +

Hermes+
for automatic printing and labeling in production lines

1.1

The slim one
for small labels

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 liner 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

The universal one
The best-selling industrial device with a wide range of accessories.

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

The wide one
for Odette, UCC and GS1 labels in applications in logistics

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	

Label reels and rolls

Hermes⁺ 2

Label reel diameter 205 mm

Hermes⁺ 2, 4, 6

Label roll diameter 205 mm

Hermes⁺ 2, 4, 6

Label roll diameter 305 mm

Directions of label demand

Hermes⁺ L

to the left

Hermes⁺ R

to the right

Protective cover

Hermes⁺ 2, 4, 6

For roll diameters up to 205 mm

Sample applications

PCB labeling

Package labeling

Container labeling

Details

1 Large graphic display
White backlight provides optimum readability. Depending on the orientation of assembly, the display can be rotated in steps of 90°.

2 Navigator pad
allows simple, interactive menu control. Only applicable functions are displayed by the day and night design. In conjunction with the graphic display, navigation is made easy to understand.

3 Ribbon holder
Three-part tightening axles allows the ribbon to be exchanged quickly and easily.

4 Rugged metal chassis made of cast aluminum
Basis to assemble all components

5 Applicator assembly
The applicator is attached to hinge pins and can be easily removed for maintenance.

6 Print positioning
After inserting a new label roll, print positioning occurs automatically after few labels. The reference value remains even when the device is switched off.

7 Print head
To be exchanged in few steps. Adjustments and settings are easy to make.

8 Automatic ribbon saving
in case labels are printed only partially. Along blank areas, the print head is lifted and ribbon feed interrupts while label feed continues.

9 Label unwinder
The swing lever and the integral brake enable labels to be unwound with constant tension.

10 Liner rewinder
After all labels have been demanded, the liner of the label roll is fully rewound. The tightening axle allows the roll to be removed easily.
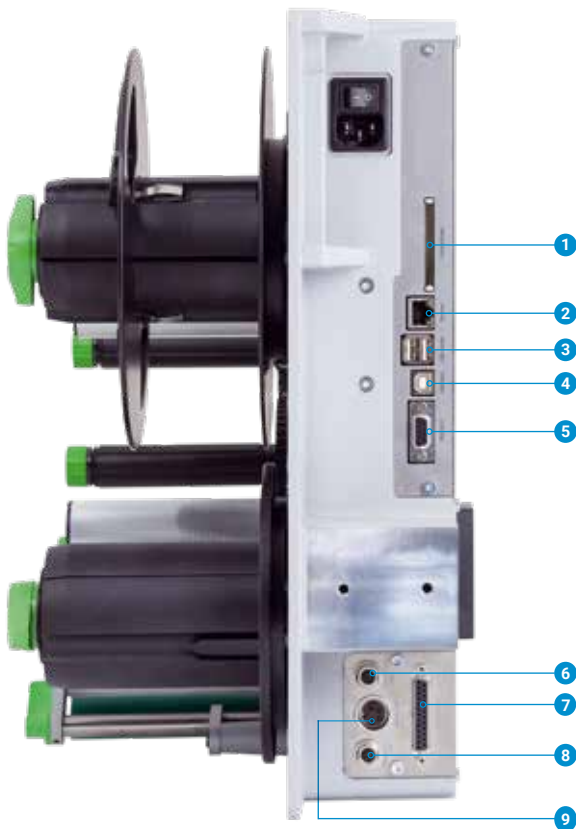
11 Feed system
The ball bearing transport rollers ensure highly accurate printing and a precise feed.

Direction of label demand
All Hermes+ devices with applicators are provided as left hand or right hand version.

Interfaces on the back of the device

1 for a **CompactFlash Type I memory card**

2 **Ethernet 10/100 BASE-T**

3 **2 x USB Master** to connect a Service Key, keyboard, barcode scanner, external operation panel

4 **USB 2.0 Slave** to connect a PC

5 **RS232C** 1,200 to 230,400 baud/8 bit

6 for the **ON/OFF valve of the compressed air regulation unit** to switch on or off compressed air supply

7 **Digital I/O;** 25 pin SUB-D socket connector
Compliant with IEC/EN 61131-2, type 1+3
all inputs and outputs are galvanically isolated and protected from reverse polarity. In addition, outputs are short circuit protected.

Inputs PNP	Outputs PNP; NPN on request
Start printing or applying	Ready status
Reprint	Print data available
Label feed	Paper feed ON
Delete print job	Pre-warning to end of ribbon
Pause	Pre-warning to end of label roll
Label removed	Error signal end of ribbon
Reset	Error signal end of label roll
Stop printing or applying	Label in demand position
Print first label	Initial position / upper end
Label rotation 90°	Labeling position / lower end
(Applicator 4214)	Common alarm

8 for an **external e-stop**
In conjunction with an ON/OFF valve plugged in, it allows compressed air supply to be interrupted in the event of danger.

9 for **warning light**

Examples of warning light assembly

Warning light

In addition to the display, it indicates the printer status.

Red — Printer or applicator error
Yellow — Pre-warning to end of ribbon
Green — Device switched ON

Delivery includes a connecting cable and material to assemble to the chassis or the bracket.

Length of connecting cable 1 m

Assembly to the chassis

Assembly to the bracket

Technical data

● Typical   ○ Possible   ■ Standard   □ Option

Label printer		unit	1.1 Hermes+ 2		1.2 Hermes+ 4.3		1.2 Hermes+ 4			1.3 Hermes+ 6	
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
Labels[1]											
Paper, PET, PE, PP, PI, PVC, PU, acrylate, Tyvec	on roll		●		●		●			●	
	on reel		○		-		-			-	
Thickness		mm	0.055 - 0.35								
Weight		g/m²	60 - 160								
Width		mm	4 - 58		10 - 114					50 - 174	
Height		mm	4 - 200		8 - 320					25 - 320	
Liner material[2] width	Roll	mm	24 - 62		24 - 118					54 - 178	
	Reel	mm	10 - 62		-					-	
Roll	Outside diameter up to	mm	205 / 305								
	Core diameter standard	mm	76		76					76	
	adapter, option	mm	40 / 50		40 / 50					-	
	Winding		outside or inside								
Ribbon[3]											
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	
Automatic saving			-		□					□	
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 with position indication											
Gap sensor for			labels, punch marks or print marks in transparent materials and end of material								
Reflective sensor from below or top for			print marks in not transparent materials and end of material								
Distance sensor to locating edge		mm	2 - 26		2 - 47					2 - 47	
Electronics											
Processor 32 bit clock rate		MHz	266								
Main storage (RAM)		MB	64								
Data storage (IFFS)		MB Flash	8								
Slot for CompactFlash Type I memory card			■								
Battery for time and date, real-time clock			■								
Error signal			■								
Interfaces											
Centronics			□								
RS232C 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 web service, mDNS								
RS422/RS485 1,200 to 230,400 baud/8 bit			□								
2x USB Master for			external operation panel, keyboard, barcode scanner, Service Key								
Warning light			■								
Digital I/O			■								
Applicator			■								
External e-stop			■								
ON/OFF valve of compressed air regulation unit			■								

[1] Limitations may apply to small labels, thin materials or strong adhesives. Critical applications need to be tested.   [2] In case of liner 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 liner material.

Technical data

■ Standard   □ Option

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 - 85 % not condensing
	Transport	–25 - 60°C / 20 - 85 % not condensing
Approvals		CE, FCC class A, CB, CCC, c UL

Setup options

	Time Date Analog and digital clock 25 languages System settings Print parameters Interfaces Safety

Display information

	Data reception Ethernet Memory in use Print head temperature Memory card access	Time Calendar abc debug Input buffer Ribbon supply

Monitoring

	End of ribbon End of label roll Print head open

Test routines

System diagnostics when	device is switched on; print head detection included
Information display, status printout, analysis	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 request via software command - Information display of, for example, 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 provided internally, 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, K0I8-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°
Vector / 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/GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident- and Leitcode of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D und Stacked	DataMatrix QR code PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F RSS 14 truncated, limited, stacked, stacked omni-directional EAN/GS1 DataMatrix	
	All codes are variable as regards height, modular width and ratio; orientations 0°, 90°, 180°, 270° optional check digit, plain text printout and start / stop code depending on the type of code	

Software

Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		■ ■ □ □
Running also with	CODESOFT NiceLabel EASYLABEL BarTender		
Stand-alone operation			■
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 printer drivers	from version 10.6		■
Linux printer drivers	from CUPS 1.2		■
Programming	Printer language JScript abc Basic Compiler		■ ■
Integration	SAP Database Connector		■ ■
Administration	Printer control Configuration in Intranet and Internet Network Manager		■ ■ ■

Label software cablabel S3

Designing, printing, administrating

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 marker 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**
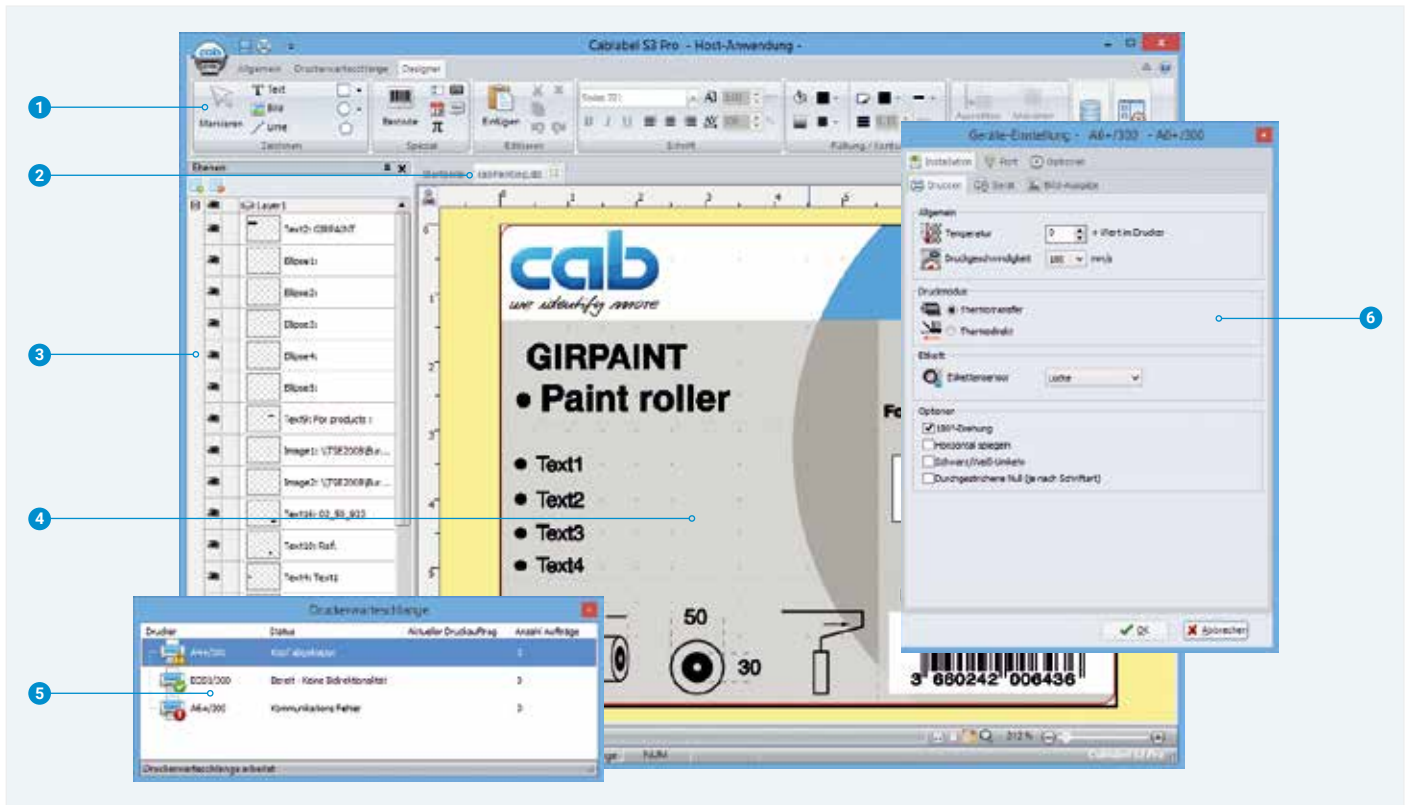
1 Toolbar
to create different label objects

2 Tabs
to quickly switch from one running label design to another

3 Layers
to administrate different label objects

4 Designer
simplifies the design and displays the label WYSIWYG

5 Printer spooler
to monitor all print jobs and the state of the printer

6 Drivers
for setting and the communication with devices

Printing in stand-alone operation

This operating mode is the printer's ability to select and print labels even when it is not connected 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 stored on a memory card, a USB memory stick or in the internal IFFS memory.

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

Printer control

Drivers

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

Windows[1] drivers
cab printer drivers are certified according to WHQL. They ensure optimum stability on the Windows operating system.

Mac OS X[2][3] drivers
cab provides CUPS-based printer drivers for Mac OS X applications.

Linux drivers[3]
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**

Programming

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.

Integration

Printer Vendor Program
As a partner in SAP's[4] 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 are sent to the printer by the host. Pictures and fonts that had priorly been stored in the local memory (IFFS, memory card, etc.) are merged.

Step 1
Create a label and a replace file with cablabel S3

Step 2
Use the replace file and replace the variable data in SAPScript

Step 3
Printout from SAP
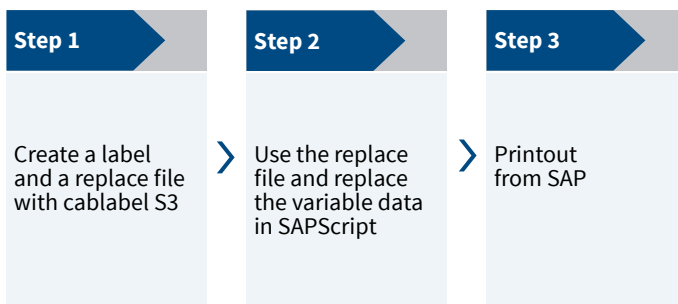
Printer administration

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.

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.

[1] Windows is a registered trademark of Microsoft Corporation
[2] MAC OS X is a registered trademark of Apple Computer, Inc.
[3] Only for device series SQUIX (except of SQUIX MT), MACH 4S, EOS, Hermes+ and PX
[4] SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

Applicators

The Hermes+ have been designed for automatic printing and labeling in production lines. Various applicators are provided to roll, blow or tamp labels on products or packaging.
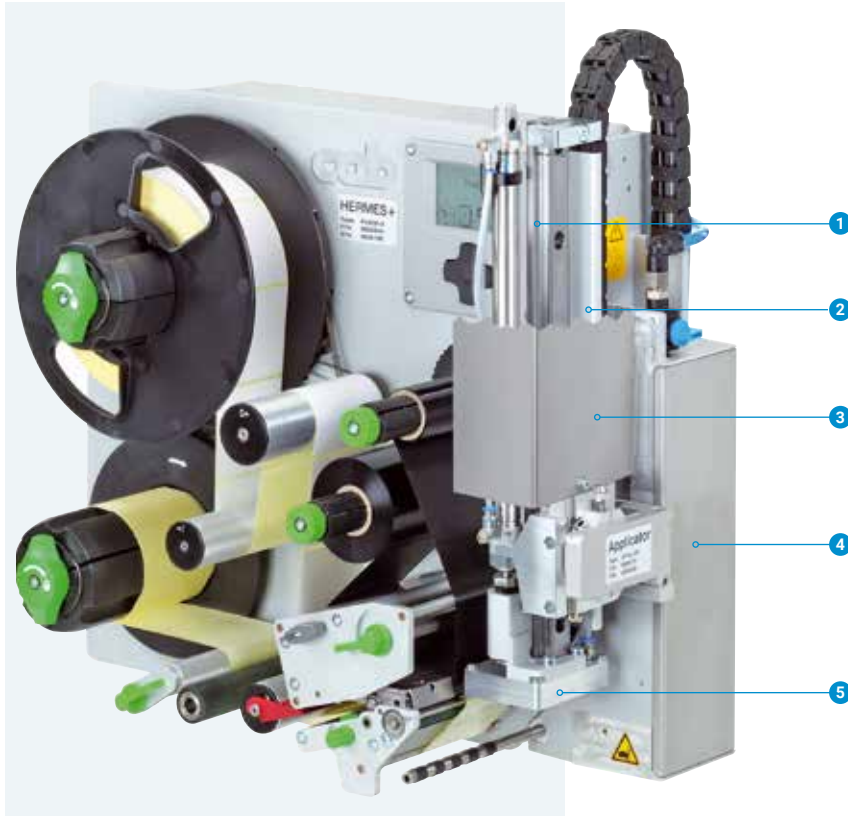
1 Long service life

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

2 Variable product heights

The stroke cylinder allows labeling at different heights. It is available in lengths of 200, 300 and 400 mm as standard. Further lengths on request

3 Protective cover

The cylinder and the guide are protected by a cover as standard. Protective covers adapted to the product jig are offered for labeling workstations.

4 High process reliability

Supporting air, intake air and stroke speed are all adjustable. Monitoring is via sensors.

5 Real-time labeling

Applicators for small and large labels; Label heights from 4 to 250 mm and label widths from 4 to 174 mm can be processed.

6 Pivoting applicator

Access to the print mechanics in case of material exchange or maintenance is quick and easy.

Pressure reducing valve

By its installation, the pressure of the stroke cylinder contacting the product is reduced.

Overview of applicators and transfer modules

#	Applicator	Hermes+ 2	Hermes+ 4	Hermes+ 6	Universal pad (11)	Tamp pad (11)	Tamp pad with damping layer (12)	Tamp pad with label stop (61)	Blow pad (21)	Form pad (88)	Universal pad spring-mounted (31)	Tamp pad spring-mounted (31)	Roll-on pad (41)	Corner-wrap pad (51)	Peel-off plate (—)	Vacuum belt (—)	Template (90)
5.1	Swing applicator		3214		—	F	F	F	☐	—	—	—	—	—	—	—	—
5.2	Stroke applicator		4114		—	F	F	F	☐	☐	—	—	—	—	—	—	—
5.2	Stroke applicator			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			—	—	—	—	—	☐	—	—	—	—	—	—	—

Product marking

#	Applicator	Hermes+ 2	Hermes+ 4	Hermes+ 6	Universal pad (11)	Tamp pad (11)	Tamp pad with damping layer (12)	Tamp pad with label stop (61)	Blow pad (21)	Form pad (88)	Universal pad spring-mounted (31)	Tamp pad spring-mounted (31)	Roll-on pad (41)	Corner-wrap pad (51)	Peel-off plate (—)	Vacuum belt (—)	Template (90)
5.7	Front side applicator		3014		—	☐	—	—	☐	—	☐	—	—	—	—	—	—
5.7	Front side applicator			3016	—	☐	—	—	—	—	☐	—	—	—	—	—	—
5.8	Stroke applicator		4014		☐	F	—	—	☐	—	☐	☐	☐	☐	—	—	—
5.8	Stroke applicator			4016	—	☐	—	—	—	—	—	☐	☐	—	—	—	—
5.9	Stroke blow applicator		4614		—	—	—	—	☐	—	—	—	—	—	—	—	—
5.10	Demand module		5114		—	—	—	—	—	—	—	—	—	—	☐	—	—
5.11	Vacuum belt applicator		5314	5316	—	—	—	—	—	—	—	—	—	—	—	☐	—
5.11	Vacuum belt applicator		5414	5416	—	—	—	—	—	—	—	—	—	—	—	☐	—
5.12	Air jet box		6114		—	—	—	—	—	—	—	—	—	—	—	—	☐

Package marking

Applicator type code — 4414L-200

Type	441
For label printer — Hermes+ 2	2
For label printer — Hermes+ 4	4
For label printer — Hermes+ 6	6
Direction of label demand — left	L
Direction of label demand — right	R
Cylinder stroke	200
	300
	400
	500 ⎫
	600 ⎬ on request
	700 ⎪
	800 ⎭
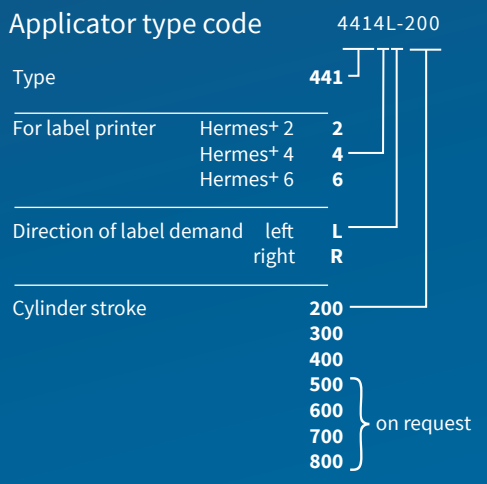
F Allows the tamp pad to immerse into the surface within the area of the label.

For detailed immersion depths see the applicator's technical data.

Product marking

Swing applicator 3214

for precise real-time labeling of very small to mid-sized labels.
The labels are preferably applied on the side of the product.

The pad is positioned in front of the peel-off plate. The label
is held during printing. A rotary cylinder swings in labeling position.
The stroke cylinder applies the label on the product. Rotary angle
and linear stroke are adjustable.

5.1

Accessories

5.13 **Blow tube**

5.14 **Compressed air regulation unit**

5.15 **Compressed air regulation unit with ON/OFF valve**

Tamp pad
Labels are precisely tamped
on plain surfaces, even recessed.

Tamp pad with damping layer
With hard surfaces, the layer contributes
to noise damping. The use gives also
advantage with rough structures
or minor unevenness.

Tamp pad with label stop
In case of small labels, the stop provides
precise positioning on the product.

Blow pad
for pressure sensitive surfaces
or when products are in motion. Air jet
blows the labels onto the product.

5 to 10 mm distance to the product surface
are set with a stop on the stroke cylinder.

			Tamp pad	Tamp pad with damping layer	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	-	-	-	■	
Product labeling	from the side		■			
Product height	fixed		■			
Product distance to peel-off plate		mm	250 - 280			
Horizontal linear guidance		mm	5 - 30			
Pivot angle			45° - 95°			
Immersion depth pad F	up to mm		30	30	30	-
Compressed air		bar	4.5			
Cycle time[1]	approx. labels/min		20			

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

Product marking

Stroke applicators 4114, 4116

for precise real-time labeling of very small to mid-sized labels where installation is difficult. Labeling is possible from all sides.

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

5.2

Accessories

5.13 **Blow tube**

5.14 **Compressed air regulation unit**

5.15 **Compressed air regulation unit with ON/OFF valve**

5.17 **Pressure reducing valve**

Tamp pad
Labels are precisely tamped on plain surfaces, even recessed.

Tamp pad with damping layer
With hard surfaces, the layer contributes to noise damping. The use gives also advantage with rough structures or minor unevenness.

Tamp pad with label stop
In case of small labels, the stop provides precise positioning on the product.

Blow pad
for pressure sensitive surfaces or when products are in motion. Air jet blows the labels onto the product.

5 to 10 mm distance to the product surface are set with a stop on the stroke cylinder.

			Tamp pad	Tamp pad with damping layer	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		-	-	-	■
Product labeling	from top				■	
	from below				■	
	from the side				■	
Product height	fixed		-	-	-	■
	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
Immersion depth pad F[1]		up to mm	100	100	100	-
Compressed air		bar		4.5		
Cycle time[2]		approx. labels/min		30		

[1] In case the applicator's immersion depth is more than 25 mm, the cover of Hermes+ has to be adapted.
[2] Calculated with stroke 100 mm below device, label height 40 mm, print speed 100 mm/s

Product marking

Stroke applicators 4114, 4116

for precise real-time labeling of very small to mid-sized labels where installation is difficult. Labeling is possible from all sides.

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

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF**
5.17	**Pressure reducing valve**

5.2

Form pad
Labels are applied precisely to cylindric objects, oblique or curved surfaces. Curved form pads prevent from bubbling on very smooth and flat surfaces. With cylindric objects, 200° maximum label wrapping is possible.

Technical data			Form pad
			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		∎
Product labeling	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

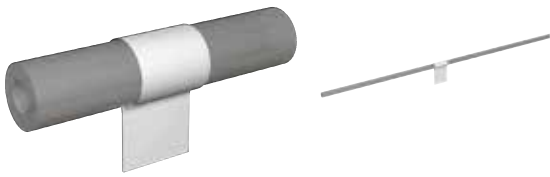[1] Calculated with stroke 100 mm below the device, label height 40 mm, print speed 100 mm/s
In case the height of the form pad is more than 25 mm, the cover of Hermes+ has to be adapted.

Product marking

Stroke turn applicator 4214

for precise real-time labeling of very small to mid-sized labels where installation is difficult. Labeling is possible from all sides.

The pad is positioned in front of the peel-off plate. The label is held during printing. A rotary cylinder swings the pad horizontally up to 180° in labeling position. The stroke cylinder applies the label on the product. The length of the stroke cylinder defines the maximum product distance to the peel-off plate.
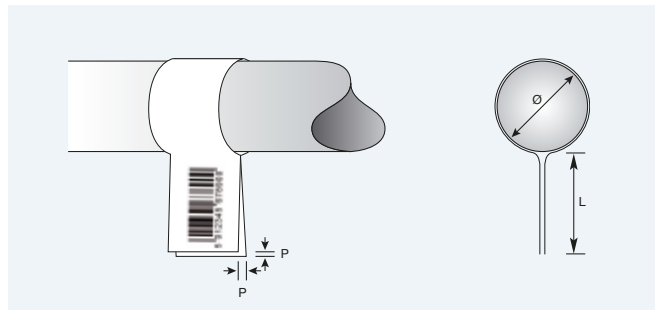
5.3

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**
5.17	**Pressure reducing valve**

Tamp pad
Labels are precisely tamped
on plain surfaces, even recessed.

Tamp pad with damping layer
With hard surfaces, the layer contributes to noise damping. The use gives also advantage with rough structures or minor unevenness.

Tamp pad with label stop
In case of small labels, the stop provides precise positioning on the product.

Blow pad
for pressure sensitive surfaces or when products are in motion. Air jet blows the labels onto the product.

5 to 10 mm distance to the product surface are set with a stop on the stroke cylinder.

Technical data			Tamp pad	Tamp pad with damping layer	Tamp pad with label stop	Blow pad
			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		-	-	-	■
Product labeling	from top		■			
	from below		■			
	from the side		■			
Product height	fixed		-	-	-	■
	variable		■	■	■	-
Horizontal rotary angle	90°, 0° 180° with label height 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
Immersion depth pad F[1]		up to mm	65	65	65	-
Compressed air		bar	4.5			
Cycle time[2]		approx. labels/min	20			

[1] In case the applicator's immersion depth is more than 25 mm, the cover of Hermes+ has to be adapted.
[2] Calculated with stroke 100 mm below device, label height 40 mm, print speed 100 mm/s

Product marking

Stroke applicator 4414

for very precise real-time labeling of very small to mid-sized labels.
Adjustability in x and y directions provides exact positioning
on the product. Labeling is possible from all sides.

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

5.4

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**
5.17	**Pressure reducing valve**

Tamp pad
Labels are precisely tamped on plain surfaces, even recessed.

Tamp pad with damping layer
With hard surfaces, the layer contributes to noise damping.
The use gives also advantage with rough structures
or minor unevenness.

Tamp pad with label stop
In case of small labels, the stop provides
precise positioning on the product.

Technical data			Tamp pad	Tamp pad with damping layer	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	
Label height	Hermes⁺ 2	mm	4 - 80	8 - 80	4 - 80
	Hermes⁺ 4	mm		8 - 80	
Product during labeling	not in motion			■	
Product labeling	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	
Immersion depth pad F[1]	up to mm			90	
Compressed air	bar			4.5	
Cycle time[2]	approx. labels/min			25	

[1] In case the applicator's immersion depth is more than 25 mm, the cover of Hermes⁺ has to be adapted.
[2] Calculated with stroke 100 mm below device, label height 40 mm, print speed 100 mm/s

Product marking

Swing stroke applicator 4514

for real-time labeling on inner surfaces of profiles and pipes.
The exact position on the product is set with a stop
on the stroke cylinder. Labeling is possible from all sides.

The pad is positioned in front of the peel-off plate. The label is held
during printing. A rotary cylinder swings the pad to the labeling plane.
The stroke cylinder moves the label to the demand position.

5.5

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**

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

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 during labeling	not in motion		■
Product labeling	from top		■
	from below		■
	from the side		■
Product height	fixed		■
Vertical pivot angle			120°
Distance lower edge of device to upper 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 stroke 100 mm below device, label height 40 mm, print speed 100 mm/s
[2] depending on the label height

Product marking

Flag applicator 4712

for precise real-time labeling on round materials such as cables, hoses, pipes, etc. Labeling is possible from all sides.

The pad is positioned in front of the peel-off plate. The label is held during printing. It is moved by a stroke cylinder to the demand position. With the other cylinder, the label is guided around the round material via cam control. At first, it is precisely stuck at the ends and only then pressed to the round material. The length of the stroke cylinder defines the maximum product distance to the peel-off plate.

5.6

Accessories

5.13 **Blow tube**

5.14 **Compressed air regulation unit**

5.15 **Compressed air regulation unit with ON/OFF valve**

Front side
Flag length L

Diameter x π

Back side
Flag length L
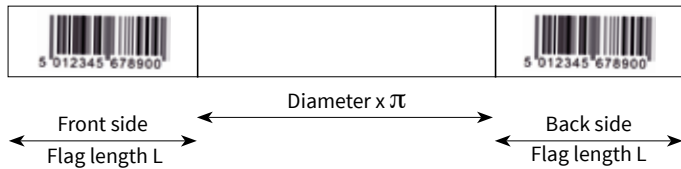
	Form pad
Technical data	**4712 L 300**
Label width Hermes+ 4 mm	60 - 100
Label height mm	10 - 50
Diameter mm	3 - 16
Product during labeling not in motion	■
Product labeling from top	■
from below	■
vertically rotated	0 - 180° clockwise; others on request
from the side	■
Product height fixed	■
Product distance to lower edge of device min. mm	70
at cylinder stroke 300 up to mm	260
Immersion depth tongs 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 on the label quality

Package marking

Front side applicators 3014, 3016

5.7

for real-time labeling on packaging in motion.
The labels are preferably applied to the front or back.
Labeling from top or from the side is possible.

The pad is positioned in front of the peel-off plate. The label is held
during printing. The rotary cylinder applies the label on the packaging.
A sensor detects the packaging and, when labeling has finished,
moves back the pivot arm and pad to their initial position.
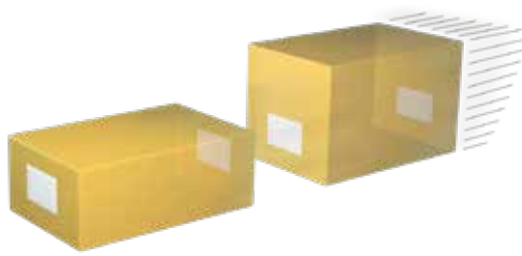
Pivot arm length

Pivot angle 0 - 90°

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**
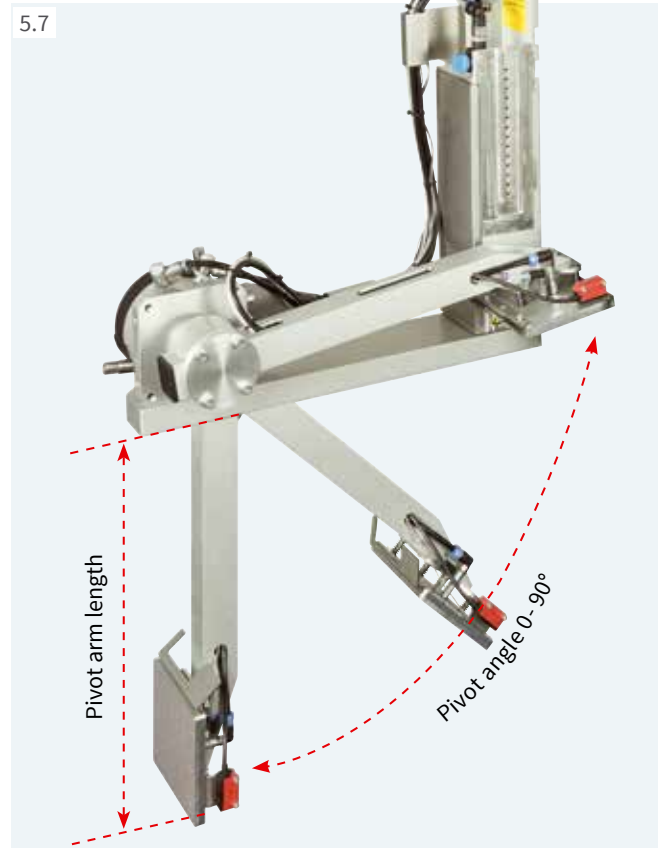
Tamp pad
Labels are precisely tamped
on plain surfaces, even recessed.
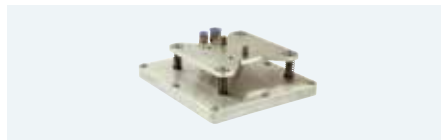
Tamp pad spring-mounted
The spring-mounted suction plate allows
labeling on inclined surfaces up to 15°.
Deviation in height in the area of the label
may not exceed 10 mm.

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

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

[1] Pivot arm length is defined as the accessible 90° label position (lower edge of the label) below the footprint of Hermes⁺.
[2] Calculated with pivot arm length 200 mm, label height 100 mm, print speed 100 mm/s

Package marking

Stroke applicators 4014, 4016

for real-time labeling on packaging or products. Depending on the type of pad, the product is either in motion or not in motion during labeling. Labeling is possible from all sides.

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

5.8

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**
5.17	**Pressure reducing valve**

Tamp pad
Labels are precisely tamped on plain surfaces, even recessed.

Universal pad
Labels are tamped on plain surfaces. Holes to suck the labels are pre-drilled in gaps of 5 mm and are covered by a sliding foil. They are opened with a punching tool, according to the label size. Delivery includes two foils for substitution.

Tamp pad spring-mounted
The spring-mounted suction plate allows labeling on inclined surfaces up to 15°. Deviation in height in the area of the label may not exceed 10 mm.

Universal pad spring-mounted
The spring-mounted suction plate allows labeling on inclined surfaces up to 15°. Deviation in height in the area of the label may not exceed 10 mm. Holes to suck the labels are pre-drilled in gaps of 5 mm and are covered by a sliding foil. Delivery includes two foils for substitution.

			Tamp pad	Universal pad	Tam 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		■			
Product labeling	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
Immersion depth pad F[1]	up to mm		120	–	–	–
Compressd air	bar		4.5			
Cycle time[2]	approx. labels/min		25			

[1] In case the applicator's immersion depth is more than 25 mm, the cover of Hermes⁺ has to be adapted.
[2] Calculated with stroke 100 mm below device, label height 100 mm, print speed 100 mm/s

Package marking

Stroke applicators 4014, 4016

for real-time labeling on packaging or products. Depending on the type of pad, the product is either in motion or not in motion during labeling. Labeling is possible from all sides.

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

5.8

Accessories

5.13	**Blow tube**
5.14	**Compressed air regulation unit**
5.15	**Compressed air regulation unit with ON/OFF valve**
5.17	**Pressure reducing valve**

Blow pad
for pressure sensitive surfaces or when products are in motion. Air jet blows the labels onto the product.

5 to 10 mm distance to the product surface are set with a stop on the stroke cylinder.

Roll-on pad
Labels are rolled on plain surfaces of the product during transport.

Corner-wrap pad
Labels are attached on two adjacent sides of the product. Half of the label is applied by the pad on the top side. Then the second half of the label is rolled on.
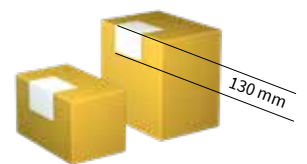
			Blow pad	Roll-on pad	Corner-wrap pad
Technical data			**4014 L/R 2100**	**4014, 4016 L/R 4100**	**4014 L/R 5100**
Label width	Hermes+ 4	mm	20 - 114	25 - 114	20 - 114
	Hermes+ 6	mm	-	50 - 174	-
Label height	Hermes+ 4	mm	20 - 100	80 - 250	60 - 210
	Hermes+ 6	mm	-	80 - 250	-
Product during labeling	not in motion		■	-	■
	in motion		■	■	-
Product labeling	from top			■	
	from below		■	■	-
	from the side		■	■	-
Product height	fixed		■	-	-
	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	bar			4.5	
Cycle time[1]	approx. labels/min		25	20	20

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

Package marking

Stroke blow applicator 4614

for real-time labeling of packaging of different heights in motion. Labeling is possible from all sides.

The pad is positioned in front of the peel-off plate. The label is held during printing. Sensor controlled, the stroke cylinder moves the pad to a position approximately 10 mm above the packaging. The length of the stroke cylinder defines the maximum differences in height of the packages.

5.9

Accessories

5.13 **Blow tube**

5.14 **Compressed air regulation unit**

5.15 **Compressed air regulation unit with ON/OFF valve**

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

	Blow pad		
Technical data	**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		■
Product labeling	from top		■
	from below		■
	from the side		■
Product height	fixed		■
	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 cylinder stroke 100 mm below device, label height 100 mm, print speed 100 mm/s

Package marking

Demand module 5114

for serial labeling of packaging in motion. The label position on the peel-off tongue is adjusted with the adjustable rewind assist roller. Labeling is possible from all sides.

During labeling, the next label is printed simultaneously. The conveyor belt speed has to be adapted to the print speed.

5.10

Technical data		Demand module
		5114 L/R
Label width Hermes+ 4	mm	25 - 114
Label height	mm	25 - 250
Print line distance to peel-off plate	mm	400 - 600
Product during labeling	in motion	∎
Product labeling	from top	∎
	from below	∎
	from the side	∎
Product height	fixed	∎
Product distance to lower edge of device	mm	80
Product speed	mm/s	must correspond to 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, 5414, 5416

for real-time labeling on packaging or products in motion. Labeling is possible from all sides on plain surfaces, cylinders resp. corner-wrap.

The vacuum belt applicator is positioned in front of the peel-off plate. The printed label is transferred by the vacuum conveyor belt to the demand position and labeled on the packaging by an external signal.

5.11

5314, 5316

5414, 5416

max. 150°
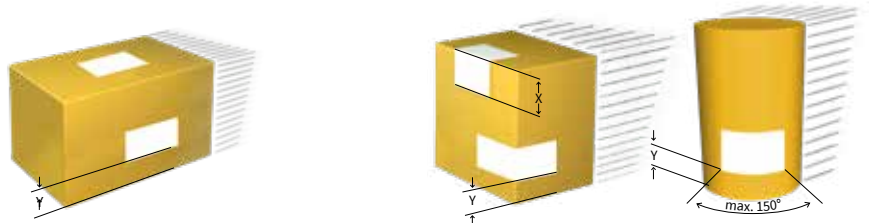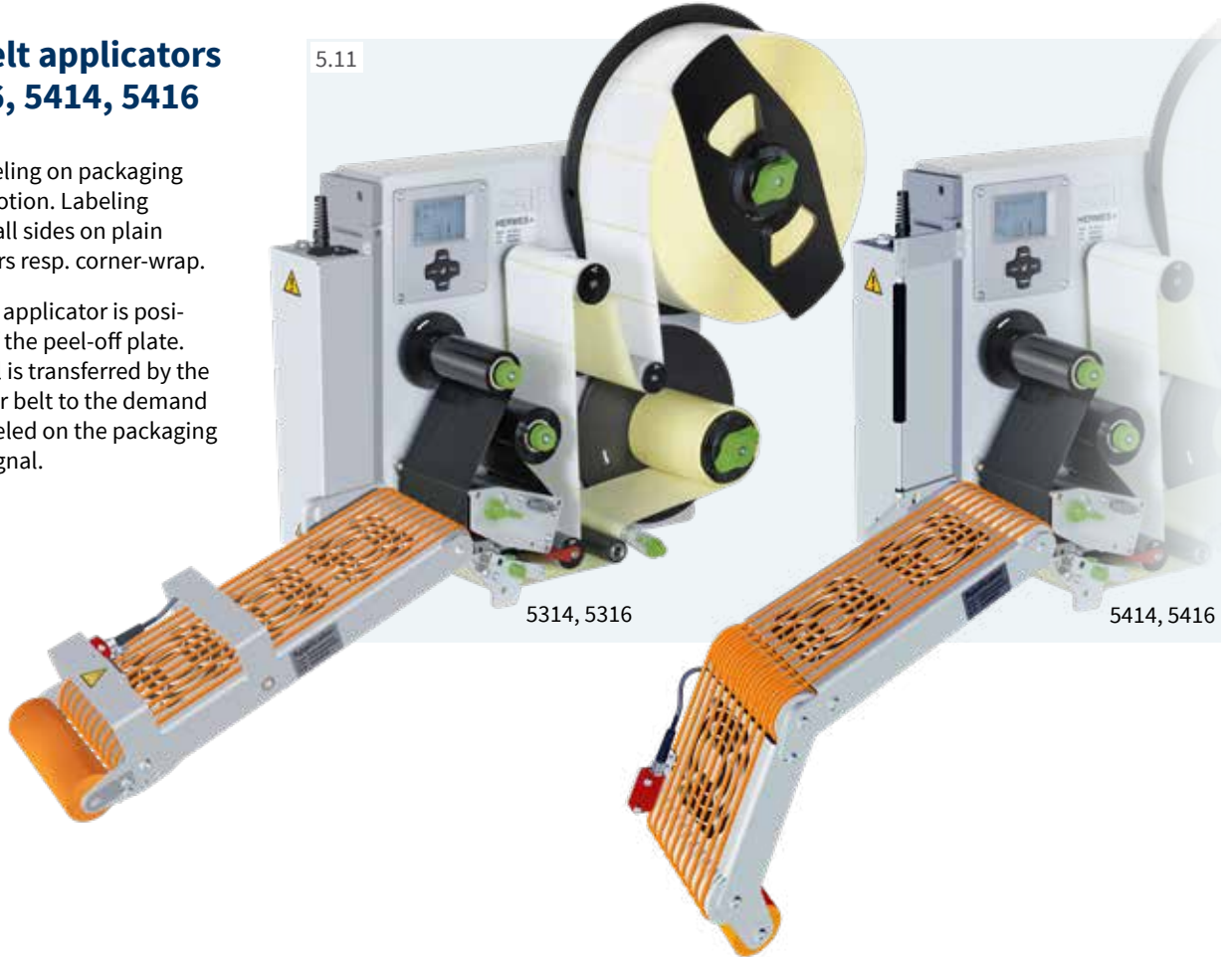
	Vacuum belt applicator			
Technical data	**5314-3**	**5316-3**	**5414-3**	**5416-3**
Labeling	on the surface		on the surface, a cylinder or corner-wrap	
Direction of label demand	left and right			
Label width Hermes+ 4 mm	20 - 114	-	20 - 114	-
Hermes+ 6 mm	-	46 - 174	-	46 - 174
Label height mm	60 - 356	60 - 356	80 - 356	80 - 356
Product during labeling in motion		■		
Product labeling from top		■		
from below	■	■	-	-
from the side		■		
Product height fixed		■		■
variable	-			■
Product speed up to m/s	0.5	0.5	0.3	0.3
Gap between products min. m	0.5			
Stability on application level	-	-	F = 30 N	F = 30 N
Corner-wrap labeling up to mm	-	-	dimension X = 160	dimension X = 160
Vacuum conveyor 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	dimension Y = 20			

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

Package marking

Air jet box 6114

for fast labeling in motion or not in motion. The labels are sucked by a fan and blown off by a powerful blast of air through aligned nozzles. The maximum distance from the packaging to the peel-off plate is 200 mm, depending on the label size.

5.12

Accessories

5.13 **Blow tube**

5.16 **Compressed air regulation unit with shut-off valve**
for fully venting the hose lines after the compressed air regulation unit; provided as left hand or right hand version

❶ **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.
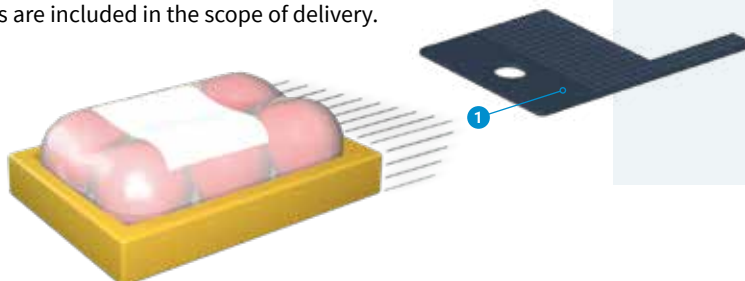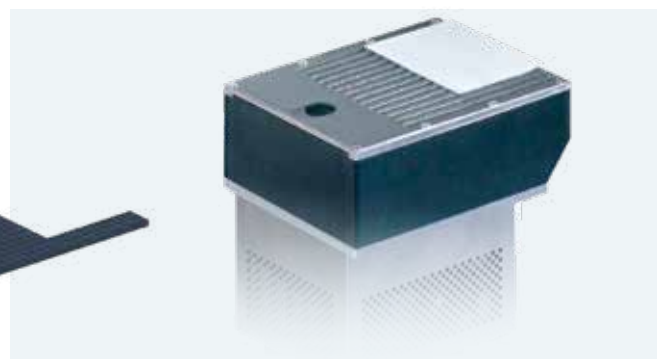
		Air jet box
Technical data		**6114 L/R**
Label width Hermes⁺ 4	mm	50 - 114 smaller sizes on request
Label height	mm	50 - 125 smaller sizes on request
Product during labeling	not in motion	■
	in motion	■
Product labeling	from top	■
	from below	■
	from the side	■
Product height	variable	■
Product distance to peel-off plate	up to mm	200
Compressed air	bar	4.5 - 6
Cycle time[1]	up to labels/min	100

[1] Calculated with label height 50 mm, print speed 250 mm/s, blowing time 100 ms and a distance of 100 mm from the product to the peel-off plate

Overview of accessories

■ Standard   □ Option

	Hermes⁺ accessories	1.1 Hermes⁺ 2	1.2 Hermes⁺ 4	1.3 Hermes⁺ 6
Pos.	**Extra equipment**			
2.1	Cover	□	□	□
2.2	External operation panel	□	□	□
2.3	Standard keyboard DE	□	□	□
2.4	CompactFlash Type I memory card	□	□	□
2.5	Product sensor 25 pin to connect to Hermes⁺	□	□	□
2.6	Product sensor 3 pin to connect to a front side applicator, vacuum belt applicator, air jet box	-	□	-
2.7	I/O interface connector	□	□	□
2.8	Warning light	□	□	□
2.9	Circular connector	□	□	□
2.10	Extended peel-off plate +10 mm	□	□	□
2.11	Margin stop	□	□	□
2.12	Antistatic brush	□	□	-
	Interfaces			
3.1	Centronics	□	□	□
3.2	RS422/RS485	□	□	□
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	□	□	□
	Mounting equipment			
6.1	Adapter plate	□	□	□
6.2	Profiles 40, 80, 120 mm	□	□	□
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	□	□	□

	Applicator accessories	5.1 3214	5.2 4114 4116	5.3 4214	5.4 4414	5.5 4514	5.6 4712	5.7 3014 3016	5.8 4014 4016	5.9 4614	5.12 6114
Pos.	**Extra equipment**										
5.13	Blow tube	■	■	■	■	■	■	■	■	■	■
5.14	Compressed air regulation unit	□	□	□	□	□	□	□	□	□	□
5.15	Compressed air regulation unit with ON/OFF valve	□	□	□	□	□	□	□	□	□	-
5.16	Compressed air regulation unit with shut-off valve	-	-	-	-	-	-	-	-	-	■
5.17	Pressure reducing valve	-	□	□	□	-	-	-	□	-	-

Hermes⁺ accessories

Extra equipment	
2.1	**Cover** for label roll diameters up to 205 mm. To protect from dirt and contact. In case the applicators's immersion depth is more than 25 mm, the cover has to be adapted. Approved for vertical assembly
2.2	**External operation panel** If the operation panel is not accessible after printer installation, an external one can be additionally connected. A port to insert a CompactFlash Type I memory card as well as a USB host interface are also in place.
2.3	**Standard keyboard DE** USB connected, 115 keys
2.4	**CompactFlash Type I memory card** to store label formats, fonts, text and graphics. Readable and writable in the printer or on a PC
2.5	**Product sensor 25 pin** to connect to Hermes⁺. In case a product has been detached, e.g. on a conveyor belt, labeling is started.
2.6	**Product sensor 3 pin** to connect to a front side applicator, vacuum belt applicator or air jet box. In case a product has been detached, e.g. on a conveyor belt, labeling is started.
2.7	**I/O interface connector** with clamping screws to connect all control signals to the I/O interface of Hermes⁺

Extra equipment	
2.8	**Warning light** In addition to the display, it indicates the printer status. Delivery includes a connecting cable and material to assemble to the chassis or the bracket.
2.9	**Circular connector** in case wiring is provided by the customer; 3 pin M8 for the ON/OFF valve of the compressed air regulation unit 4 pin M8 for an external e-stop
2.10	**Extended peel-off plate +10 mm** in case labels are hard to remove; on request
2.11	**Margin stop** to guide small label materials
2.12	**Antistatic brush** Particularly with plastic materials the electro-static charge is discharged after printing.

Interfaces	
3.1	**Centronics** bidirectional according to IEEE 1284
3.2	**RS422/RS485** 1,200 to 230,400 baud/8 bit
3.3	**Label selection - I/O box** Up to 16 different labels per box can be selected from the memory card.
3.4	**I/O interface adapter** to adapt the 15 pin plug of Hermes A to the 25 pin plug 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

Hermes+ mounting equipment

6.1
6.2
6.3

6.4

6.5

6.6

6.7
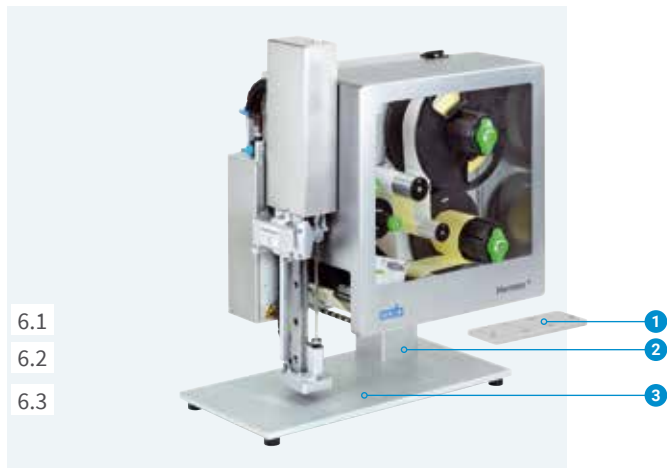
Mounting foot
to install Hermes+ on a desk or in a production line;
provided as left hand and right hand versions

The size of the mounting foot can be adapted to the application.

❶ Adapter plate
The labeling system is assembled to the adapter plate.
It may also be assembled with the adapter plate to the profile
directly in the production line.

❷ Profile
Aluminum square profile, standard lengths are 40, 80, 120 mm;
customized lengths are possible

❸ Base plate
to assemble the product holder; standard size is 500 x 255 mm
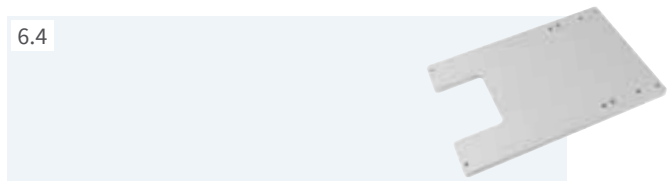
Mounting plate
to assemble Hermes+ directly in the production line

Bracket
to assemble Hermes+ to the floor stand
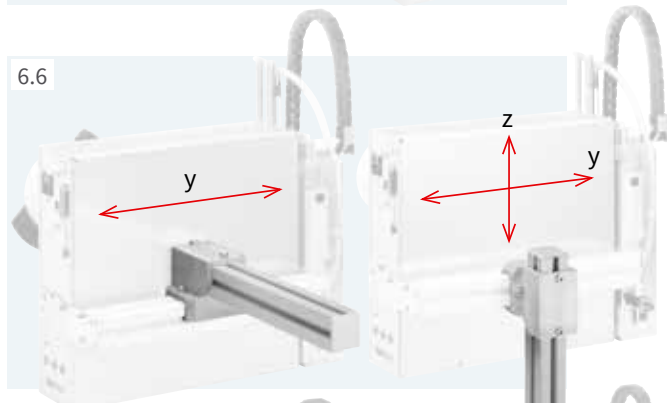
Clamped joint for profile 50 x 50 mm
to move the labeling system horizontally and vertically
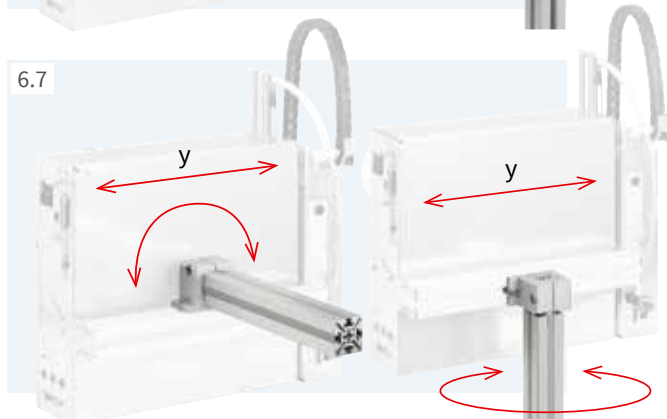
Flanged joint for profile 50 x 50 mm
to move the labeling system horizontally
and rotate it around an axis

Hermes+ floor stands

6.8

□ 80 mm

y

z

x

1,600 mm

650 mm

910 mm

They help to install Hermes+ in a production line. Thanks to the adjustment options, Hermes+ can be positioned in three axes to the product to be labeled. Pivoting is also possible.

Floor stand 1601
Preferred use is with applications in different production lines. The mobile floor stand can be aligned with adjustable feet at the place of application.
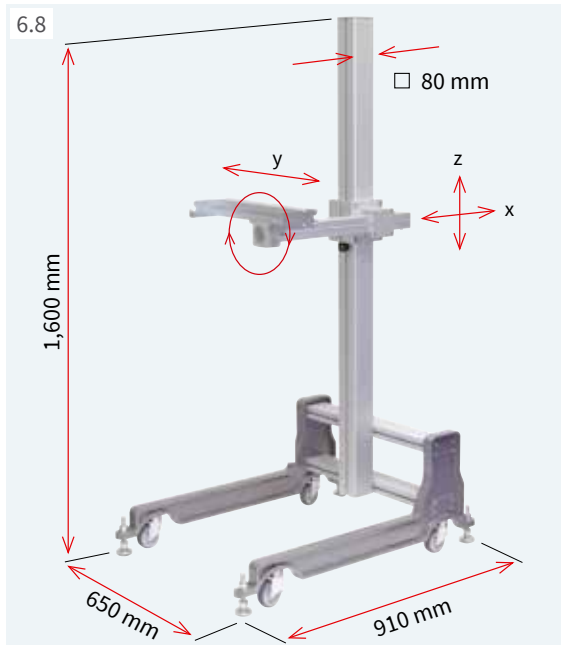
	Floor stand
Technical data	**1601**
Base frame	Castors, adjustable feet
Height and depth adjustment	Screw clamping
Load in case of offset 500 mm up to kg	50
Weight kg	36

6.9

Diameter 60 mm

y

z

x

1,600 mm

700 mm

820 mm

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.
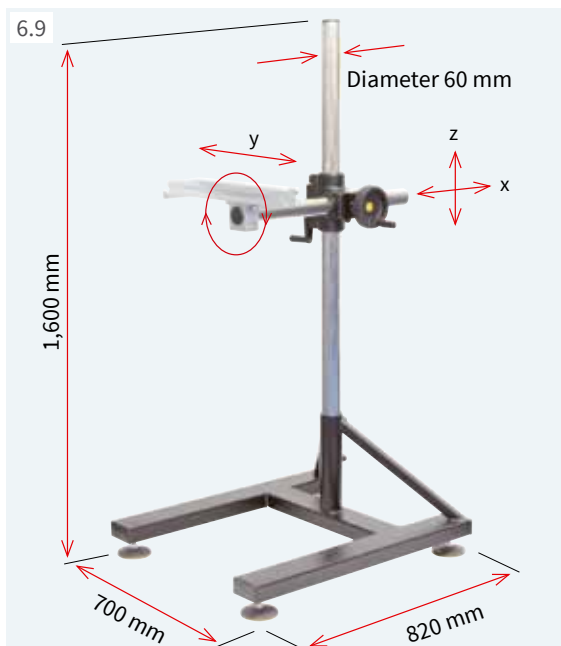
	Floor stand
Technical data	**1602**
Base frame	Adjustable feet
Height adjustment Depth adjustment	Toothed rack / crank Toothed rack / handwheel
Load in case of offset 500 mm up to kg	50
Weight kg	38

Examples of stand assembly

Labeling in direction of transport
from top   from the side
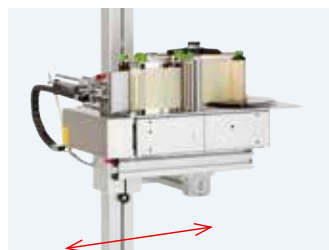
Labeling crosswise to the direction of transport
from top   from the side
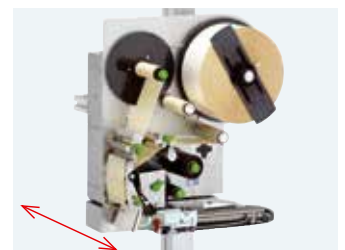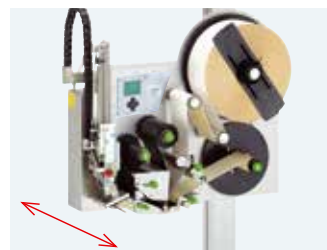
Applicator accessories

Blow tube
supporting with air. To assist the label transfer,
the label is blown from below to the pad.

Provided for 2", 4" or 6" label applications

5.13

Compressed air regulation unit
for compressed air preparation; default setting 4.5 bar

Provided as left hand or right hand version

Delivery includes a fine filter, pressure control valve, pressure display,
a hose to be connected to the applicator's compressed air input
and material to assemble to the chassis or bracket.

5.14

Compressed air regulation unit with ON/OFF valve
In case the labeling system is part of a plant, compressed air
supplying the applicator can be switched on or off.
Only if combined with an e-stop. Default setting 4.5 bar

Provided as left hand or right hand version

Delivery as 5.14, added by an ON/OFF valve
and a mating plug to be connected to an external e-stop

5.15

Pressure reducing valve
to reduce the pressure of the stroke cylinder contacting the product

For applicators 4014/4016, 4114/4116, 4214, 4414

5.17

Examples of compressed air regulation unit assembly
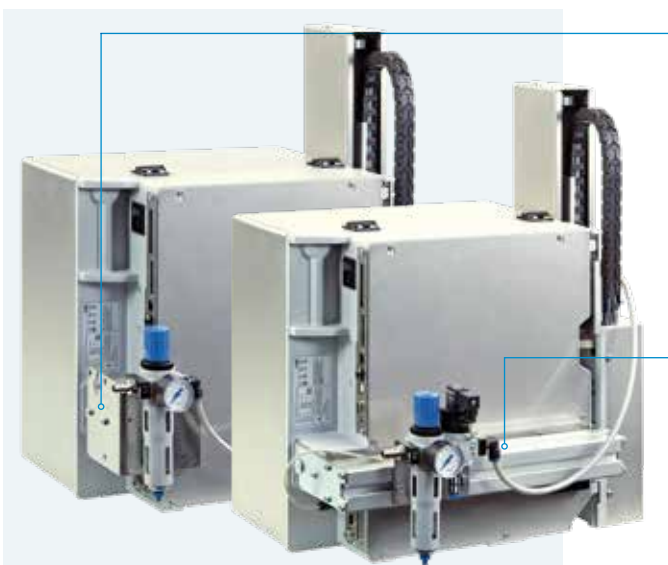
Regulation unit assembly
with material to attach to the chassis

Regulation unit with ON/OFF valve assembly
with material to attach to the bracket

Delivery program label printers

Pos.		Part no.	Printers L	Part no.	Print heads	dpi	Part no.	Print rollers	Part no.	Draw rollers
1.1		5955502 5955503	Label printer Hermes⁺ 2L/300-2 Label printer Hermes⁺ 2L/600-2	5954105.001 5958686.001	Print head 2 Print head 2	300 600	5954102.001	Print roller DR2	5961015.001	Draw roller ZR2
1.2		5955504 5955505 5955506 5955507 5955508	Label printer Hermes⁺ 4L/200-2 Label printer Hermes⁺ 4L/300-2 Label printer Hermes⁺ 4L/600-2 Label printer Hermes⁺ 4.3L/200-2 Label printer Hermes⁺ 4.3L/300-2	5954081.001 5954072.001 5954077.001 5954085.001 5954089.001	Print head 4 Print head 4 Print head 4 Print head 4.3 Print head 4.3	203 300 600 203 300	5954180.001	Print roller DR4	5961298.001	Draw roller ZR4
1.3		5955509 5955510	Label printer Hermes⁺ 6L/200-2 Label printer Hermes⁺ 6L/300-2	5954217.001 5956322.001	Print head 6 Print head 6	203 300	5954245.001	Print roller DR6	5961220.001	Draw roller ZR6
1.1		5961410 5961411	Label printer Hermes⁺ 2L/300-3 Label printer Hermes⁺ 2L/600-3	5954105.001 5958686.001	Print head 2 Print head 2	300 600	5954102.001	Print roller DR2	5961015.001	Draw roller ZR2
1.2		5955511 5955512 5955513 5955514 5955515	Label printer Hermes⁺ 4L/200-3 Label printer Hermes⁺ 4L/300-3 Label printer Hermes⁺ 4L/600-3 Label printer Hermes⁺ 4.3L/200-3 Label printer Hermes⁺ 4.3L/300-3	5954081.001 5954072.001 5954077.001 5954085.001 5954089.001	Print head 4 Print head 4 Print head 4 Print head 4.3 Print head 4.3	203 300 600 203 300	5954180.001	Print roller DR4	5961298.001	Draw roller ZR4
1.3		5955516 5955517	Label printer Hermes⁺ 6L/200-3 Label printer Hermes⁺ 6L/300-3	5954217.001 5956322.001	Print head 6 Print head 6	203 300	5954245.001	Print roller DR6	5961220.001	Draw roller ZR6

Pos.		Part no.	Printers R	Part no.	Print heads	dpi	Part no.	Print rollers	Part no.	Draw rollers
1.1		5955752 5955753	Label printer Hermes⁺ 2R/300-2 Label printer Hermes⁺ 2R/600-2	5954105.001 5958686.001	Print head 2 Print head 2	300 600	5954102.001	Print roller DR2	5961015.001	Draw roller ZR2
1.2		5955754 5955755 5955756 5955757 5955758	Label printer Hermes⁺ 4R/200-2 Label printer Hermes⁺ 4R/300-2 Label printer Hermes⁺ 4R/600-2 Label printer Hermes⁺ 4.3R/200-2 Label printer Hermes⁺ 4.3R/300-2	5954081.001 5954072.001 5954077.001 5954085.001 5954089.001	Print head 4 Print head 4 Druckkopf 4 Print head 4.3 Print head 4.3	203 300 600 203 300	5954180.001	Print roller DR4	5961298.001	Draw roller ZR4
1.3		5955759 5955760	Label printer Hermes⁺ 6R/200-2 Label printer Hermes⁺ 6R/300-2	5954217.001 5956322.001	Print head 6 Print head 6	203 300	5954245.001	Print roller DR6	5961220.001	Draw roller ZR6
1.1		5961412 5961413	Label printer Hermes⁺ 2R/300-3 Label printer Hermes⁺ 2R/600-3	5954105.001 5958686.001	Print head 2 Print head 2	300 600	5954102.001	Print roller DR2	5961015.001	Draw roller ZR2
1.2		5955761 5955762 5955763 5955764 5955765	Label printer Hermes⁺ 4R/200-3 Label printer Hermes⁺ 4R/300-3 Label printer Hermes⁺ 4R/600-3 Label printer Hermes⁺ 4.3R/200-3 Label printer Hermes⁺ 4.3R/300-3	5954081.001 5954072.001 5954077.001 5954085.001 5954089.001	Print head 4 Print head 4 Print head 4 Print head 4.3 Print head 4.3	203 300 600 203 300	5954180.001	Print roller DR4	5961298.001	Draw roller ZR4
1.3		5955766 5955767	Label printer Hermes⁺ 6R/200-3 Label printer Hermes⁺ 6R/300-3	5954217.001 5956322.001	Print head 6 Print head 6	203 300	5954245.001	Print roller DR6	5961220.001	Draw roller ZR6

Part no.	Printer options
595xxxx.201	Printer with cover[1] "x" - choose device from Pos. 1.1-1.3
595xxxx.202	Printer with automatic ribbon saving[2] "x" - choose device from Pos. 1.1-1.3
595xxxx.203	Printer with cover[1] and automatic ribbon saving[2] "x" - choose device from Pos. 1.1-1.3
auf Anfrage	Printer supporting rolls with core diameter 40 mm[3]
5961406	Adapter for core diamater 50 mm

[1] only with label roll outside diameters up to 205 mm
[2] only for Hermes⁺ 4 and Hermes⁺ 6
[3] only for Hermes⁺ 2 and Hermes⁺ 4

In case the applicator's immersion depth is more than 25 mm,
the cover has to be adapted.

Scope of delivery	
	Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Operator's manual DE/EN
DVD:	Operator's manual in more than 20 languages Configuration manual DE/EN/FR Service manual DE/EN Spare parts list DE/EN Programming manual EN WHQL certified Windows printer drivers for

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

Apple Mac OS X printer drivers DE/EN/FR
Linux printer drivers DE/EN/FR
Label software cablabel S3 Lite
cablabel S3 Viewer
Database Connector

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.

Type code

Type code			
Label printer Hermes⁺			4L/200-2
Label width	58 mm	2	
	114 mm	4	
	174 mm	6	
Direction of label demand	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	

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

Delivery program applicators L 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 layer 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 Stroke applicator Stroke applicator	4114L-200 4114L-300 4114L-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Stroke applicator Stroke applicator	4116L-200 4116L-300 4116L-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Stroke turn applicator Stroke turn applicator	4214L-200 4214L-300 4214L-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Stroke applicator Stroke applicator	4414L-200 4414L-300 4414L-400	xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Swing stroke applicator Swing stroke applicator	4514L-200 4514L-300 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 Front side applicator Front side applicator	3014L-200 3014L-300 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 Front side applicator Front side applicator	3016L-200 3016L-300 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 Stroke applicator Stroke applicator	4014L-200 4014L-300 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 Stroke applicator Stroke applicator	4016L-200 4016L-300 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 Stroke blow applicator Stroke blow applicator	4614L-200 4614L-300 4614L-400	xxxxxxx	Blow pad	4614L-2100 W x H
5.10		5966144	Demand module	5114L			
5.11		5972730 5972750	Vacuum belt applicator Vacuum belt applicator	5314L-3 5316L-3			
		5972940 5972920	Vacuum belt applicator Vacuum belt applicator	5414L-3 5416L-3			
5.12		5984810	Air jet box 5 templates included	6114L	5984709.001	Template (5 included in pack unit)	6114 L/R

x - user specific part no. following request

Delivery program applicators R and transfer modules

Pos.	Part no.	Applicators R		Part no.	Transfer modules	
5.1	5971655	Swing applicator	3214R-40	xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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	Stroke applicator Stroke applicator Stroke applicator	4114R-200 4114R-300 4114R-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer Tamp pad with label stop Blow pad 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
	5972018 5972019 5972020	Stroke applicator Stroke applicator Stroke applicator	4116R-200 4116R-300 4116R-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer Tamp pad with label stop Form pad	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 Stroke turn applicator Stroke turn applicator	4214R-200 4214R-300 4214R-400	xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Stroke applicator Stroke applicator	4414R-200 4414R-300 4414R-400	xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad with damping layer 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 Swing stroke applicator Swing stroke applicator	4514R-200 4514R-300 4514R-400	xxxxxxx	Blow pad	4514R-2100 W x H
5.7	5970106 5970107 5970108	Front side applicator Front side applicator Front side applicator	3014R-200 3014R-300 3014R-400	xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad spring-mounted Blow pad	3014R-1100 W x H 3014R-3100 W x H 3014R-2100 W x H
	5970109 5970110 5970111	Front side applicator Front side applicator Front side applicator	3016R-200 3016R-300 3016R-400	xxxxxxx xxxxxxx	Tamp pad Tamp pad spring-mounted	3016R-1100 W x H 3016R-3100 W x H
5.8	5966105 5966106 5966107	Stroke applicator Stroke applicator Stroke applicator	4014R-200 4014R-300 4014R-400	5966140 5966141 5966142 5966143	Universal pad Universal pad Universal pad spring-mounted Universal pad spring-mounted	4014R-1100 75 x 60 4014R-1100 90 x 90 4014R-3100 116 x 102 4014R-3100 116 x 152
				xxxxxxx xxxxxxx xxxxxxx xxxxxxx xxxxxxx	Tamp pad Blow pad Tamp pad spring-mounted Roll-on pad Corner-wrap pad	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
	5966165 5966166 5966167	Stroke applicator Stroke applicator Stroke applicator	4016R-200 4016R-300 4016R-400	xxxxxxx xxxxxxx xxxxxxx	Tamp pad Tamp pad spring-mounted Roll-on pad	4016R-11 F W x H 4016R-3100 W x H 4016R-4100 W x H
5.9	5971735 5971740 5971745	Stroke blow applicator Stroke blow applicator Stroke blow applicator	4614R-200 4614R-300 4614R-400	xxxxxxx	Blow pad	4614R-2100 W x H
5.10	5966145	Demand module	5114R			
5.11	5972740 5972760	Vacuum belt applicator Vacuum belt applicator	5314R-3 5316R-3			
	5972950 5972930	Vacuum belt applicator Vacuum belt applicator	5414R-3 5416R-3			
5.12	5984800	Air jet box 5 templates included	6114R	5984709.001	Template (5 included in pack unit)	6114 L/R

x - user specific part no. following request

Delivery program Hermes+

Pos.		Part no.	Extra equipment
2.1		5961000.001	Cover 2L
		5961070.001	Cover 4L
		5961193.001	Cover 6L
		5961190.001	Cover 2R
		5961187.001	Cover 4R
		5961196.001	Cover 6R
2.2		5954380	External operation panel
2.3		5901626	Standard keyboard DE
2.4		5561043	CompactFlash Type I memory card
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	Circular connector 3 pin M8
		5918003	Circular connector 4 pin M8
2.10		5961625	Extended peel-off plate Hermes+ 2
		5961624	Extended peel-off plate Hermes+ 4
		5961658	Extended peel-off plate Hermes+ 6
2.11		5961650	Margin stop
2.12		5961640	Antistatic brush Hermes+ 2L
		5961642	Antistatic brush Hermes+ 2R
		5961644	Antistatic brush Hermes+ 4L
		5961646	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, grey

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.	Label software
7.6		5588000	cablabel S3 Lite
		5588001	cablabel S3 Pro 1 WS
		5588100	cablabel S3 Pro 5 WS
		5588101	cablabel S3 Pro 10 WS
		5588150	cablabel S3 Pro 1 additional licence
		5588151	cablabel S3 Pro 4 additional licences
		5588152	cablabel S3 Pro 9 additional licences
		5588002	cablabel S3 Print 1 WS
		5588105	cablabel S3 Print 5 WS
		5588106	cablabel S3 Print 10 WS
		5588155	cablabel S3 Print 1 additional licence
		5588156	cablabel S3 Print 4 additional licences
		5588157	cablabel S3 Print 9 additional licences
		in preparation	cablabel S3 Print Server
7.10		9008486	Programming manual EN, printed copy

Delivery program applicators

Pos.		Part no.	Extra equipment
5.13		5964277.001	Blow tube 2"
		5964095.001	Blow tube 4"
		5964614.001	Blow tube 6"
5.14		5955735	Compressed air regulation unit L
		5955736	Compressed air regulation unit R
5.15		5955737	Compressed air regulation unit L with ON/OFF valve
		5955738	Compressed air regulation unit R with ON/OFF valve

Pos.		Part no.	Extra equipment
5.16		5984805	Compressed air regulation unit L with shut-off valve for air jet box 6114L
		5984795	Compressed air regulation unit R with shut-off valve for air jet box 6114R
5.17		596xxxx.212	Pressure reducing valve

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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