

Preliminary information



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New print & apply system Hermes+

Hermes⁺



How to offer your customer added value?

Sales

Economic Solution

The goal of the development of the new Hermes⁺ line was to offer a premium print and apply system to an attractive, competitive price. By using a modular design and latest production technology cab has reached this goal! Hermes⁺ offers best technology on a fair price! Electronic and Mechanics follows the highest standards and make your acquisition a safe and appropriate investment even for the future.

Robust Industrial Design

Performance and reliability are the demand on the robustness of a machine for hard industrial use. Hermes⁺ offers a solid base in modern cast aluminium. All components are designed for continuous operation. Hermes⁺ is the right decision if there is a high demand on process reliability and long term operation. For rough environmental conditions there is a cover available.

Easy Integration

Independent to the install position – Hermes⁺ has the same dimensions with a reduced footprint. In comparison to systems of the competition Hermes⁺ print and apply systems do always need less space. This makes integration very easy and allows a space saving design as production areas are often space limited. For the economic integration a multi purpose element kit is available.

Green Technology

cab takes on the responsibility! Our systems are designed according to "Green Technology". Hermes⁺ is according to the standards of Energy Star. Compressed air is an expensive medium. Hence the air consumption of the print and apply system is optimized and the noise level reduced as much as possible. Hermes⁺ can be recycled completely!

Available for applications in food and medical industries

Equipment which has to be installed in food, pharmaceutical and medical industries needs to follow special requirements regarding corrosion, surface treatment, and behaviour to cleaning processes. Especially for this application cab offers a special version of the Hermes⁺ with stainless steel covers, a nickel coated body and aluminum parts.

Engineering

External memory drives

For all cab printers there is no need to be connected to a PC even if complex data handling has to be done. All printers are able to have direct access to the inbuilt CF card reader as well as any memory device which is connected

to the USB slave interfaces at the printer such as USB memory sticks or USB external hard drives. This features can be used to store memory intensive data on the printer side to minimize data traffic on the connection line. It is standard practice to save label layouts, databases or grafical data locally at the printer. When processing a label this data can easily be recalled and a fast operation is guaranteed.

Digital interface

We would not talk about a digital interface if it would not strictly follow the existing industrial standards! This means optically isolated digital inputs and galvo separated digital outputs. Your applications are our challenge to make this interface to an outstanding communication port. Most of the possible electronic integrations are documented in our operation manual and help you to be more efficient in wiring up.

Intelligent interfaces (USB, TCP/IP, RS 232, Keyboard)

What makes the difference in offering interfaces? The ability to use them efficiently! Hermes⁺ allows you to connect directly a barcode scanner to choose different label formats, to insert different variable information in the label layout or to verify printed labels! Even scales with complex data transmission protocols can be monitored and integrated in the printing process. What about more comfort in operating the panel? Just plug in your standard MF102 keyboard and use the whole functionality in navigating Hermes⁺.

Engineering support – design

All cab products for the product identification are designed with the latest version of Autodesk Inventor in 3D. For our authorized partners cab delivers the overview drawings in 3D and 2D to make the design integration as easy as possible. The drawing offers the possibility to do collision analysis when integrating in complex assemblies. The digital data is available in our reseller download center on our webpage. As one of the latest sales tools we offer the 3D data as E-Drawing to make customer demonstration as impressive as possible.

Engineering support – integration

All cab products are engineered and designed in house which means that our technicians and engineers are deeply involved with all issues regarding mechanics and electronics. We offer a free integration support during the start up with our products where we try to find out the most advanced and economic solution for your application in a cooperative partnership. Our engineers in the cab headquarter as well as the cab subsidiaries offer prompt telephone support or help on site.

Engineering support – software

For more than 20 years cab Germany offers customized solutions in the software integration for all our products in the field of product identification. There are a lot of standardized solutions about interfacing with databases like f.e. Microsoft SQL Server, Microsoft Access, Oracle, communication with ERP systems like f.e. SAP, Infor, Bahn or IBM AS 400. Feel free to contact our software engineers who will help you to get the most professional solution for your application.

The ABC compiler

Have you ever thought about a printing device which can take over mathematic or logic operations and even be combined with your label? Hold on – Hermes⁺ can do this! With the inbuilt ABC basic compiler Hermes⁺ offers most of the programming language features. This programming environment is one level ahead of the execution level of the printer and allows full access to all printer features and accessories. Data interfaces can be monitored and data contents be linked up to layouts as well as be combined with databases on a CF card or memory stick at the USB port. There is nearly nothing which Hermes⁺ can't handle!

Operation

Safety First

Machines and tooling which do have a potential danger to the operator have to be equipped with an E-Stop. Hermes⁺ offers an interface plug where an E-Stop can be connected or where the system can be hard wired into an E-Stop circuit. If an error occurs the system is able to cut off the compressed air supply of all actuators.

External display

In most applications Hermes⁺ will be integrated in production lines and be enclosed to avoid any danger for operators. Usual is, to do this by using some kind of safety fence in combination with an emergency stop circuit. When putting the Hermes⁺ in operation and maintaining the system it is most advisable to have any kind of operation panel outside the protected zone. Hermes⁺ offers a fully compatible external operation panel with all functions of the print engine. Furthermore, the panel is equipped with a CF card slot and an USB interface which can be used with the same functionality as at the printer itself. The display is connected by means of a USB extension cord. It is possible to use the display at Hermes⁺ and/or an additional external one for the operation.

Hermes⁺

Prewarning for end of labels and end of ribbon

Even with 100% reliability of the system, the end of consumables will cause a natural stop of the process. If you look into how many stops happen during the life time of the product and how much time is lost, you will understand that we take the pre warning of end of label and end of ribbon as a serious information. We can offer you this status as digital signal or even send it to you as an email via our inbuilt SMTP server.

Ribbon saving

When processing preprinted labels with an imprint of simple information you will come across one simple but important question: Is the ribbon consumption one to one to the feed of the label or is the print engine able to save ribbon? Hermes⁺ does offer the option to save ribbon in all different models. This function has to be ordered separately!

Hermes⁺ – process monitoring

Especially when having more than one print and apply machine in the production process it makes sense to know all about firmware release versions, set ups, processing feed-backs and the status of the device in real time. Hermes⁺ has an integrated HTTP and FTP – server which allows you to connect to the device with a standard web browser or FTP client. In this way you are able to configurate, monitor and administrate Hermes⁺. Even firmware updates can be done with this feature. Do you believe that Hermes⁺ is even able to send all kinds of messages via email or SNMP datagram to you by itself? Yes it can !

After Sales

Easy remove of print drive roller

All thermal transfer printers have two known wearing parts such as print head and print drive roller. The roller is worn off by the influence of friction between the liner material and the rubber surface due to pressure and thermal influence of the print head. Due to wearing there is a loss of friction when feeding the label material causing bad print, imprint and dispensing quality. Because of this, the roller has to be maintained and exchanged regularly. To make this operation as easy as possible the roller can be removed from outside by opening just one single screw which locks the position. Thus, cleaning and exchanging can be done in less than a minute.

Easy remove of print head

The thermal transfer print head is constantly pressed against the surface of the processed label material or used ribbon. Due to friction between the label/ribbon and the ceramics surface of the print head there is a constant mechanical abrasion leading at the end to a failure of this part influenced by the surface quality of this consumables. To make sure that the print head exchange is as easy as possible all cab print heads are delivered with an aluminum adapter carrying the print head in a pre-aligned position. The mechanical dis- and assembly can be done by loosening and tightening up just one single screw.

Easy to maintain

Maintenance is most simple if you follow the design guideline to avoid cross-sections of different mechanical and electrical components. When opening the Hermes⁺ you will realize – full access to all electronic and mechanical

parts! All components can be stripped off without complex disassembly, doesn't matter if it is a PCB, a stepper drive or a tooth belt. cab follows "KIS" – "Keep It Simple"! Most of the components are used in all of our printers like f.e. stepper drive, CPU, drive rollers or print head. This makes warehousing easy and keeps your costs for inventory down. Doesn't matter if you want to service a MACH 4, A⁺ printer, PX⁺ print engine – the print head keeps the same!

Engineering support – maintenance

Maintaining a product in a professional way means to have all information regarding wearing and recommended spare parts available. cab offers for the Hermes⁺ print engine a service manual in digital and printed version. This manual includes all kinds of service operations in form of three dimensional illustrations including appropriate part lists and spare part numbers. Error checklists make the localisation of problems easy and offers help to get the system recovered.

Global service concept based on component level

Product identification with Hermes⁺ label applicators means to take over responsibility for equipment which is essential for production with, if possible, highest reliability in operation. cab products may fail like any other product in the world. Just in this case it is good to know that the Hermes⁺ is held worldwide on stock and can be shipped depending on the failure on component level or as complete unit. The most important thing for us is to keep your customers production running.


















Technical data: apply system transfer printer Hermes+ with applicator 1000L 300

















1. Print head		Hermes+4L		
Printing method	Thermal transfer/Thermal direct			
Print resolution dpi	203	300	600	
Print speed up to mm/s	250	250	100	
Print width mm	104	105,6	105,6	
2. Material				
Label rolls	paper, synthetics like PET, PE, PP, PVC, PU, Acrylat, PI			
Material thickness mm / weight g/m ²	0,055 - 0,35 / 60 - 160			
Label width ¹⁾ mm	25 x 116			
Width of liner	27 x 120			
Label height ¹⁾ mm	25 - 250			
Media roll:	Total diameter up to mm	205		
	Core diameter mm	76		
	Winding direction	outside or inside		
3. Ribbon				
Ink	outside or inside			
Roll diameter up to mm	80			
Core diameter mm	25			
Ribbon length variable up to m	500			
Width up to mm	114			
4. Internal rewinder				
Total diameter up to mm	155			
Core diameter mm	76			
5. Dimensions of the printer				
Height x Depth x Width mm	400 x 255 x 400			
Weight kg	16			
6. Label sensor				
See-through sensor	for leading edge of the label or punching marks and end of material			
Reflective sensor from the bottom / from the top	for printing marks			
Distance to locating edge mm	2 - 47			
7. Electronics				
Processor high speed 32 Bit ColdFire/Clock rate MHz	266			
(RAM) MB	64			
Memory IFFS MB Flash	8			
Slot for CompactFlash-card Typ I	■			
Slot for Wireless LAN-card	■			
Battery cache for	Real-time clock, printout of time and date Storage of data with shut-down			
Warning signal	Acoustic signal when error			
8. Interfaces				
Centronics bi-directional acc. IEEE 1284	<input type="checkbox"/>			
RS232 C 1.200 up to 230.400 Baud/8 Bit	■			
USB 2.0 High Speed Slave for PC-connection	■			
Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■			
RS422, RS485 1.200 up to 230.400 Baud/8 Bit	<input type="checkbox"/>			
WLAN card 802.11b/g WEP/WPA PSK (TKIP)	<input type="checkbox"/>			
2 x USB Master for	ext. operation panel, keyboard, scanner, service key			
Warning light	■			
Digital I/O-interface	■			
Peripheral connection	■			
Connection for external emergency stop	■			
Adater for connection of compressed air	■			
9. Operation data				
Power supply	100 - 240 V ~ 50/60 Hz, PFC			
Power consumption	max. 300 W			
Operation temperature	10 - 35°C			
Humidity	30 - 85% not condensing			
Approvals	CE (FCC class A, CB, CCC, UL in the pipeline)			
10. Operation panel				
Buttons/LED display	Pause, Feed, Cancel, Menue, Enter, 4 x Cursor			
LCD graphic display	Text 4 lines, ca. 20 digits per line			
Width x Height mm	60 x 40			
11. Settings				
	Time, date, digital or analog clock			
	25 language settings			
	system settings, print parameters, interfaces, security			
12. Monitoring				
Warning if:	Ribbon is running out Labels are running out			
Stop printing if	End of ribbon End of labels Print head open			
On the display	Data reception Clock WLAN field intensity Date sheet Ethernet state abc Debug Used memory Input buffer Temperature print head Access to memory card Remaining quantity of ribbon			

13. Test routines		
System diagnosis	when switched on with testing of print head	
Short status, status print	font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state	
Status reports	Extensive status print with information about set ting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.	
14. Fonts		
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese) Optional Thai	
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese	
Bitmap-Fonts	Size of width and height 1 - 3 mm zoom 2-10. Orientation 0°, 90°, 180°, 270°	
Vector-/TrueType fonts	Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°	
Font formats	Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts	
Font width	Variable	
15. Graphics		
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
16. Codes		
Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar JAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident- and leader code of Deutsche Post AG MSI Plessey Postnet RSS 14 UPC A, E, E0
EAN 8, 13		
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar	
	All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code depending on code type.	
17. Software		
Programming	J-Script direct programming ■ abc-Basic Compiler ■ Database Connector <input type="checkbox"/>	
System diagnosis/administration	Printer monitoring ■ Network Manager <input type="checkbox"/>	
cab label software	cablabel R2 Lite ■ cablabel R2 Pro <input type="checkbox"/> Easylabel, Codesoft <input type="checkbox"/>	
Additional label software	Nicelabel, Bartender Label Matrix, Labelview	<input type="radio"/>
Windows driver	2000, XP 32/64 bit, 2003 32/64 bit, Vista 32/64 bit	■
Mac driver	OS X printer driver from version 10.3	■
Linux driver	Testet with Suse 9.0, CUPS based	■
Stand-alone operation		■
		Standard ■ Option <input type="checkbox"/> Authorised distribution by resellers <input type="radio"/>

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

Delivery programme print & apply system Hermes⁺

Part No.	Hardware
 5955504	Transfer printer Hermes ⁺ 4L/200-2
5955505	Transfer printer Hermes ⁺ 4L/300-2
5955506	Transfer printer Hermes ⁺ 4L/600-2
Part No.	Spare parts
 5954081.001	Print head 4/203
5954072.001	Print head 4/300
5954077.001	Print head 4/600
 5954180.001	Driver roller DR4
5954183.001	Rewind assist roller RR4
5955638.001	Traction roller ZR4
Part No.	Accessories
5955645	Cover
 5537747	Signal lamp
 5954380.001	External operation panel
 5901630	Compact keyboard USB, Cherry Classic Line G84-4100 LCM
 5901626	Standard keyboard USB, Cherry G83-6504 LAD
 5561043	Memory card CompactFlash Typ I
Part No.	Applicator with accessories
 5964075	Applicator 1000L 300
5949072	Universal tamp pad A1021 70 x 60
 5949075	Universal tamp pad A1021 90 x 90
5xxxxxx	Tamp pad A1021 B x H
5949076	Universal tamp pad A1321 116 x 102
 5949077	Universal tamp pad A1321 116 x 152
5xxxxxx	Tamp pad A1321 B x H
 5xxxxxx	Blow pad A2021 B x H
 5xxxxxx	Roll-on pad A1411 B x H
 5xxxxxx	Air pressure regulator for Applicator Hermes ⁺
 5955710	Present trigger TR1
 5955711	Foot switch applicator SPS
 5955712	Product sensor SPS

Part No.	Assembling devices
 5958400	Base plate
 5958401	Assembly frame A workpiece height 150 mm
5xxxxxx	Assembly frame A work piece height customer-specific
 5958402	Assembly frame B workpiece height 150 mm with X-Y-stopper and release switch
5xxxxxx	Assembly frame B workpiece height customer-specific with X-/Y-stopper and release switch
 5955685	Bracket profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
 8914443	Clamped joint profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
 8914444	Flange clamp profile 50 x 50 mm Supplier: Rose+Krieger Art. no. 4.08.5000
 5947400	Stand 1600
 5955713	Testbox 3 automatic operation
Part No.	Interfaces
 5954200	Centronics interface
5954201	RS422/RS485 interface
 5954191	Label selection - I/O-Box
 5561041	WLAN-card 802.11 b/g
Part No.	Connecting cables
 5901616	Cable USB length 3 m
 5550818	Cable RS232 C 9/9-pin, length 3 m
Part No.	Software
 5580212	Database Connector
 5580215	Administration Network Manager
 5580221	Label software cablabel R2 Pro Easylabel, Codesoft on request
9008486	Programming manual English, printed copy

Print & apply system Hermes⁺



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