

WORLDWIDE SHOWPIECE IN IDENTIFICATION TECHNOLOGY

LABEL PRINTERS



QUALITY. TRADITION. INNOVATION.

» INNOVATIVE LABELLING TECHNOLOGY

For a world spinning round faster and faster.
For commodity flows becoming more and more complex.



As a company which has been built steadily on firm foundations, we have gained an unassailable market presence all over the world: with unsurpassed product variety and a constantly rising success curve - for more than 90 years.

We develop, manufacture and market multifunctional label printing and labelling systems as stand-alone modules, built-in modules, direct printing units offering special solutions in bar code and plain text labelling in all conceivable designs by the thermal direct or thermal transfer process – carefully supplemented by convenient label creation software, a mass of practical accessories and matching consumables.

And there is a lot more we can do – by means of our RFID modules, Smart Labels may be inscribed or read out at standardised frequencies.

From a technical point of view some of our systems lead the world. Our Spectra printers are among the fastest label printers on the market. Bespoke clients from nearly all branches of industry appreciate us as competent partners, capable of thinking holistically towards total solutions right through all phases of a project - from planning through manufacture, right up to servicing and customer service. Customer proximity, knowledge and innovative strength have been a tradition with us for generations, and day in, day out they create the foundation for the development and production of our high-performance machines.

» Labels: Detection in the worldwide flow of commodities.

Whether it be in industry, commerce, logistics or service provision, labels from Carl Valentin GmbH are indispensable all over the world for getting the message across. Thanks to clear labelling, their code can be securely decoded and the identity of commodities/products uniquely established.

Our printing systems thus guarantee optimised value-creation processes right along the entire supply chain. And that is no accident - the uncompromising high quality of all our systems has been our highest priority since time immemorial. Right up to point at which a product leaves our premises, our quality management system, based on DIN EN ISO 9001:2008, monitors all working processes in accordance with strict test guidelines.

» Maintenance, Service and Support: Easy to get hold of and obtainable in a flash.

Night and day our systems are working at high-performance level. Regular servicing tasks and preventive measures rule out the possibility of loss of production and guarantee long life for your machines.

The factors that have become our machines' trademark also apply to the quality of our customer service. What you can confidently expect from us is speed, total commitment and high quality.

In case of any software update you might wish or for preparing a service contract tailored to your needs, our helpful team is always ready to lend its support.



» MICRA SERIES

» Appealing design and compact overall size

- Low-cost starter model for smaller printing volumes
- Thermal direct or thermal transfer print
- Print width up to 106.6 mm
- Serial, parallel and USB port
- Optional Ethernet/LAN interface



The Micra series prints alternatively in thermal direct or thermal transfer mode. The pleasing design inserts itself into different environments. Owing to the amply measured cover label roll and ribbon can be changed simply and fast.

Despite the small size of housing the printer can be equipped with label rolls up to 127 mm (5") and ribbons with 300 m length. Idle times caused by replacing the expandable material will be reduced and productivity will be increased.



» Cutter Unit ›Rotation‹

With the rotary cutter label materials up to a weight of approx. 200 g/m² can be cut. The refit cutter permits single cut and interval cut.



» Cutter Unit ›Guillotine‹

The guillotine cutter permits cutting of materials up to a weight of 170 g/m² without any problems. The cutter can be refit without any technical effort. Single cut, interval and final cut are available as operating modes. Activation of a cut can be effected by an external impulse or automatically.



» Label Dispenser Unit

The photocell recognises the label in dispensing position and interrupts the print job. After removing the label manually the next label is printed automatically.



» External Label Rewinder Unit

The rewinder can be used for label rolls up to a diameter of 250 mm. The label winding is optionally inside or outside.



» Interfaces

Moreover the Micra series is equipped with standard serial, parallel and USB connection. In order to integrate the printer into a network an internal Ethernet card is available optionally. Therewith the Micra can be connected to almost all computer systems.

» PICA II SERIES

» High Reliability in Second Generation

- Faster data transmission
- Stable metal housing for industrial applications
- Small footprint for applications with limited space conditions
- Connection for an external USB keyboard and USB memory stick
- Serial, parallel and USB port
- Optional LAN and WLAN interface
- Display for comfortable operation
- Cover with viewing window

Pica II is the professional version of an economical printer which is often used as workplace printer and for larger label volumes.

Reliability, universal usability and an attractive cost/performance ratio made the Pica series the top-selling product of the last years. With the new Pica II series the typical success story from development and production of Carl Valentin GmbH is continued.

Thermal direct printing or thermal transfer printing, paper or plastic labels for the Pica II series – no problem.

» Cutter Unit

The new developed cutter unit (guillotine) replaces the rotation cutter used previously. Advantages result regarding the accessibility for cleaning and maintenance as well as for thickness of paper to be cut which was increased to 220 g/m².

» Label Dispenser Unit

The dispenser unit separates the label from backing paper and provides it for further processing. After removing the label another print order is activated by dispensing photocell or an external impulse. The backing paper again is rolled up with the external rewinder unit PR 28.



Available from
summer 2010



» **Rewinder Unit PR 28 for Labels and Backing Paper**

The optional and retrofit external rewinder unit can be used either to rewind labels (in front) or for backing paper in dispensing mode (behind).

» **Interfaces**

Interfaces such as RS-232, Centronics and USB 2.0 are integrated as fixed standards in the bar code printer. LAN and WLAN are available optionally.

» VITA II SERIES

» More flexibility. More efficiency. More reliability.

- Print speed up to 200 mm/s
- Large graphic display (favourable for indication of international character sets as well as special characters) with 132 x 64 pixels and white background lighting
- Interfaces by default: Serial, parallel, USB, LAN 802.3 10/100
- Optional WLAN 802.11 b/g interface
- Print resolutions of 200 dpi, 300 dpi and 600 dpi
- New developed cutter unit
- USB Host for connection of USB keyboard and memory stick as well as a slot for Compact Flash card

The Vita II series combines flexibility, efficiency and reliability to a compact technology on smallest space. Thanks to its up-to-date technique the Vita II is best-prepared for future requirements. It goes without saying that all printers of this series are equipped by default with LAN 802.3 10/100 interface and an USB host to connect USB keyboard and memory stick. Beyond that the Vita II series is suitable for working in stand-alone mode owing to the large graphic display. Beside the current printheads for thermal transfer printing we provide long-living printheads particularly for thermal direct printing. For applications with extreme fine graphics or small fonts a high-resolution printhead with 24 dot/mm (600 dpi) is offered.



» Cutter Unit

The new developed cutter unit (guillotine) replaces the rotation cutter used previously. Advantages result regarding the accessibility for cleaning and maintenance as well as for thickness of paper to be cut which was increased to 220 g/m².



» Label Dispenser Unit

The dispenser unit separates the label from backing paper and provides it for further processing. After removing the label another print order is activated by dispensing photocell or an external impulse. The backing paper again is rolled up with the external rewinder PR 49.



» Stand-Alone Mode

Owing to standard equipment with a twofold USB host for connection of an USB keyboard and a memory stick as well as a drive for Compact Flash cards this printing system is best to use in stand-alone mode. With the large graphic display now keyboard entries as well as international character sets and special characters can be displayed comfortably.



» Powerful Ports

The printers of Vita II series are equipped with four efficient internal standard interfaces. In addition to a serial, parallel and USB interface an internal LAN 802.3 10/100 interface for network connection was added. For wireless data transmission the printer can be equipped with a WLAN 802.11 b/g interface optionally. Moreover an USB host for connection of an USB keyboard and a memory stick is integrated.



» External Rewinder Units

With the external rewriter PR 48 label rolls up to a diameter of 180 mm can be rolled up. The rewriter is connected directly to the printer and needs no own mains supply. The rewriter unit PR 49 serves to roll up backing paper in dispensing mode of printer.



» Thermal Transfer or Thermal Direct Printing

For thermal transfer printing the Vita II series provides different print resolutions (200 dpi, 300 dpi and 600 dpi). In thermal direct printing mode the customer can decide between print resolutions of 200 dpi and 300 dpi. Special printheads with high lifetime are used in thermal direct printing mode.

» COMPA II SERIES

» Modular structure for high versatility

- Internal rewinding of labels as standard equipment
- Large label rolls up to a diameter of 200 mm
- Print speed up to 200 mm/s
- Simplest operating and maintenance ability



The optimal matching of transfer ribbon, label and pressure power enable the Compa II to print onto type plates, adhesive labels, paper, cardboard, textile and plastic. Fast and easily suitable labels with an abrasion, weather and chemical resistant printout can be obtained. A lifelong identification of your product and traceability with the aid of serial numbers is guaranteed. Requirements of a reliable labelling e.g. for the automobile industry are guaranteed. The ultimate ambition with the development was the simple and comfortable handling as well as high reliability – also in harsh environments. Housing and print mechanics are perfectly coordinated and manufactured from high-quality materials. Each specific customer requirement is realised with the extensive periphery and software.



» Label Dispenser Unit

For dispensing of labels an additional dispenser photocell or dispenser inputs are needed. After removing the label the print order is activated by the dispenser photocell or by an external signal on the dispenser input. The backing paper is rolled up with the internal standard rewriter.



» Cutter Unit

The half-rotary cutter of Compa II series permits fast cutting of different label materials up to a weight of 220 g/mm². The refit cutter permits single, interval and final cut. The cutter can be mounted easily and fast with two pins to the printer and fixed with a screw.



» External Label Rewinders

With the rewriter units PR 10 and PR 15 it is possible to process label rolls up to a diameter of 210 mm. The rewriters are bolted directly to the printer. With the rewinding units PR 12 and PR 17 the maximum diameter of label rolls is 300 mm. Due to the internal power supply unit they are equally suitable for all printer types. An electronic control via swing arm enables smooth and tight winding.

» APPLICATOR APL 100

The applicator APL 100 can be attached fast and easily by Plug & Play to the printers of this series. The connection can also be effected later at any time. Simple labelling applications/ product labelling can be solved reliably and economically. The applicator applies label with a size starting from 25 x 25 mm automatically onto the product by rolling on, blowing on or stamping on.



	STAMP ON	BLOW ON	ROLL ON
Label width	25–176 mm	25–176 mm	25–176 mm
Label height	25–200 mm	80–200 mm	25–100 mm
Cylinder stroke		300 mm	
Stamp stroke below printer		180 mm	
Compressed-air		4-8 bar	
Product surface		flat	

1. Long Lifetime

The guide bars have ball bearings which avoid abrasion.

2. Variable Product Heights

With the pneumatic cylinder it is possible to compensate differences in product heights. It is available in different stroke lengths.

3. Simple Adjustment

Four screws are needed to adjust the stamp pad to the dispensing edge. The processing can be optimised at the operator panel during testing.

4. Pre-Dispense Key

Testing the labelling function. After the first push of this key the label is printed and transferred to the applicator. By pushing the key again the label is applied.

5. Compressed-Air Service Unit

The mounting is effectuated to the printer and to the frame or to the stand if desired. The micro filter prevents contamination; the compressed air regulator guarantees the labelling quality.

6. High Process Reliability

The support and intake air as well as lifting speed are adjustable. To avoid contamination within the vacuum channels they will be cleaned by an air pressure impulse at the end of each application.

7. Real-Time Labelling

Labels with a height of 25–200 mm and width of 25–176 mm can be applied.

8. Quick Assembly

Like any other accessory, the applicator is plugged to the printer with two stoppers and can be attached with only one screw.

» VARIO II SERIES

» Proven and versatile printer from Valentin product range

- Internal label rewinder as standard
- Large label rolls up to a diameter of 200 mm
- With different printheads for various applications available
- Foil keyboard and memory card slot make the printer to a stand-alone system, usable completely independent of a computer connection
- Option RFID
- With the bar code scanner option the system itself can check the printed bar code in real-time

The label printers of Vario II series are practical and very sturdy printers that can be used in almost every application. The excellent print quality with 200 dpi and 300 dpi and a large number of accessories are important characteristics of the printer. Moreover all printers of Vario II series can be used in stand-alone mode, i.e. labels can be designed without PC but by means of keyboard directly at printer and afterwards saved onto a PCMCIA or Compact Flash card. With the 2-line backlight LC display all parameters can be set either by foil keyboard at printer or by an external keyboard.



» Cutter Unit

The guillotine cutter permits cutting of materials up to a weight of 220 g/m² without any problems. The cutter can be refit without any technical effort. Single cut, interval and final cut are available as operating modes. Activation of a cut can be effected by an external impulse or the dispenser photocell.



» Label Dispenser Unit

The dispenser unit removes the label from backing paper and provides it for further processing. After removing the label, the following print order is activated by the dispenser photocell or automatically. The backing paper can be rolled up with the internal standard rewinder.



» External Label Rewinders PR 45 and PR 45s

Labels can be rolled up after printing up to a maximum outside diameter of 270 mm. The rewinders PR 45 and PR 45s will be synchronised by the feed of printer so that an automatic adjustment of rewinding speed can be achieved.



» Interfaces

Interfaces such as RS-232, Centronics and USB are integrated as fixed standards in the bar code printer. A LAN interface is available optionally.

» SPECTRA SERIES

» Economy paired with maximum power

- Rewinding of large label rolls up to a diameter of 200 mm
- Automatic ribbon saving
- Print width up to 216 mm
- Print speed up to 300 mm/s
- Option RFID
- With the bar code scanner option the system itself can check the printed bar code in real-time

Maximum performance in print quality and speed is the identifying feature apart from the economical variant with the ribbon save option.

By the use of a new 32 bit RISC processor the Spectra is one of the fastest label printers on the market. In a split seconds a label is generated with text, bar code or graphics and printed with print speed of 300 mm/s.

The system has versatile equipment variants and print widths up to 216 mm. The bar code verification by means of scanner is one of the multiple options.



» Label Dispenser Unit

The retrofit dispensing unit removes the label from backing paper and provides it for further processing. After removing the label, the following print order is activated by the dispenser photocell or an external impulse to the dispenser inputs. The backing paper can be rolled up again with the internal rewriter.



» Cutter Unit

The half-rotary cutter permits fast cutting of different label materials up to a weight of 220 g/mm². Beside single cut, double and interval cut the first cut also is no problem and therefore guarantees the necessary flexibility expected from a modern printing system.



» Internal Label Rewinder

The rewinder unit is able to rewind printed labels with inner or outer winding up to a maximum roll diameter of 160 mm. This option easily to refit can also be used excellently in dispensing mode for rewinding backing paper.



» External Label Rewinders PR 45 and PR 45s

Labels can be rolled up after printing up to a maximum outside diameter of 270 mm. The rewinders PR 45 and PR 45s will be synchronised by the feed of printer so that an automatic adjustment of rewinding speed can be achieved.



» Interfaces

Interfaces such as RS-232, Centronics and USB are integrated as fixed standards in the bar code printer. A LAN interface is available optionally.

» SPX SERIES

» Compact print module with integrated control unit

- Date / Time
- Compact Flash drive
- Ethernet / LAN interface
- Port for external rewinder
- Option RFID

The models of Valentin SPX series are thermal transfer print modules to be installed in applicators and automatic labelling machines. The series consists of 4 models and due to the robust metal housing they are suitable for rough industrial environments.



» Right and left hand versions

The SPX is a pure print unit to be integrated into existing labelling lines. The module prints and dispenses in every installation direction and was developed particularly for labelling round-the-clock. The models of SPX series are available in both versions: right hand and left hand.



» Stainless steel housing

The sturdy housings of the systems are manufactured optionally in compliance with hygienic regulations thus the strict regulations in food industry can be easily fulfilled.

» SPE SERIES

» Print module as universal device

- Print width up to 162 mm
- Available with different printheads for various applications
- Print speed up to 300 mm/s
- Slot for PCMCIA or Compact Flash card
- Port for external rewinder



Sturdy and solid construction is one of the advantages of this print module. Due to its modular construction it is possible to use this print module in almost every labelling application. The print module can be used as additional module mounted on a label applicator as well as stand-alone system in combination with a pneumatically controlled label applicator. This is realised by means of the internal dispenser unit as well as the optional label unwinder and ribbon rewinder.

External inputs and outputs permit a full automatic operation in machine construction. High resolution of 300 dpi, print speed up to 300 mm/s as well as easy handling e.g. labels and transfer ribbon can be loaded from outside, make this print module to a popular universal device in label printing and dispensing sector.



» Right and left hand versions

Right and left hand versions permit installation into different labelling systems.



» LABELSTAR PLUS

Label Creation Software

With us you are fit for the requirements of tomorrow. For almost 20 years Carl Valentin GmbH develops and sells professional software for graphic label creation. These experiences form the firm components of our worldwide successful label creation software Labelstar PLUS. Therefore you can also profit from this unique advantage to get label printing systems and label creation software from one hand – made by Valentin.



» Efficiency and Functionality

Labelstar PLUS is the optimal extension to your Valentin label printer. By the precise WYSIWYG presentation you can comfortably create your labels on the screen. The look & feel surface guarantees a short training period. Due to its modular construction Labelstar PLUS can be individually adapted to your needs. Already the base version provides all possibilities for designing labels. Labelstar PLUS supports Windows TrueType fonts as well as printer build-in fonts. Import possibilities for all common raster and vector graphic formats are available.

» Languages

Czech, Danish, Dutch, English, Finnish, French, German, Italian, Polish, Portuguese, Russian, Spanish, Turkish

» System Requirements

» HARDWARE

Pentium PC
32 MB RAM
60 MB free hard disc space

» SOFTWARE

Windows 2000
Windows XP
Windows Vista
Windows 7
Windows 2003/Server



» NETSTAR PLUS

Printing Process and Control System

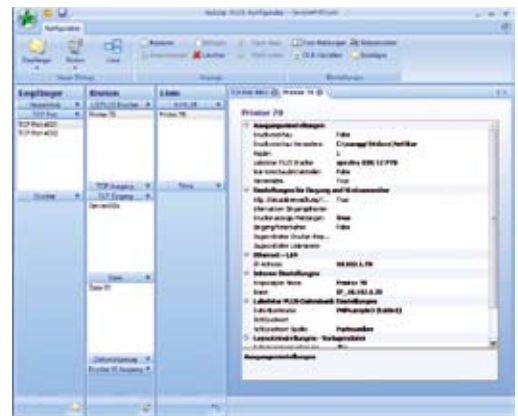
» Netstar PLUS is the innovative link between production control and printing process.

The flexible structure of Netstar PLUS enables to adapt the system particularly to the needs of customers. Netstar PLUS contains both the print control system as well as print process control.

As print control system Netstar PLUS communicates directly with superordinated production control systems or receives control data from external system components. Manual entries are possible, too. The received control data is prepared from the print control system and if necessary supplemented with further data and then passed on to the print process control.

The print process control loads the required layouts of the printers and if necessary supplements the data that was handed over from the printing control system. Apart from printing systems further system components can be activated or control files created. Thereby also other vendors' systems or external test systems can be merged into the printing process.

Due to the possibility of printer supervision and the associated direct input of data at the printer, a PC at the input place is not necessary. This reduces acquisition and maintenance costs and solves problems arising under difficult environmental conditions.



At the print control centre changes due to flow such as rerouting of orders can be performed to other printing systems. Complete production lines can be switched on or off.



Current status messages of the printers can also be displayed. In this way it is possible to react quickly to disturbances in the printing system.

» LABELS

» Printed or Blank Labels

We supply our labels onto rolls, printed or blank, with inside or outside winding and different core diameters. The type of used adhesive can be selected by yourself: either permanent or removable. We have also a large range available: paper, plastic and cardboard labels and with regard to formats we are variable for all materials.

» Paper Labels

- Transfer eco permanent (surface-glued SC paper, without cellulose)
- Transfer eco removable (surface-glued SC paper, without cellulose)
- Transfer special permanent (white paper, without cellulose, machine-painted, half gloss)
- Transfer special removable (white paper, without cellulose, machine-painted, half gloss)
- Transfer premium permanent (matt painted, paper without cellulose with optimal printability)

» Thermal Labels

- Thermal eco permanent (chemo thermal paper, without topcoat, not rubbing resistant)
- Thermal TC removable (white paper, without cellulose with thermal sensitive coating)
- Thermal SY removable (chemo thermal PP foil, with topcoat, rubbing resistant)



» Plastic Labels

- Polyester silver matt (super)
- Polyester silver matt (extreme)
- Polyester white bright (super)
- Polypropylene PP 60-A
- Polypropylene white bright
- Polyethylene PE white matt

» TRANSFER RIBBONS

Transfer ribbons are available for each thermal transfer printer and for each label material. Per transfer ribbon type different widths of 35 mm up to 220 mm are available.



» Standard (wax)

These transfer ribbons were developed especially for printing bar codes, text and graphics with exact contours. They are versatile usable, from paper to foil. They have an acceptable rubbing resistance.

- Valentin 1700 Standard/ Flat Type and Corner Edge

» Premium (wax/resin)

These transfer ribbons were developed especially for printing bar codes, text and graphics with high resolution. Even with high print speeds ribbons of wax/resin mixture offer very good print quality no matter using paper or foil. They have an excellent rubbing and scratching resistance.


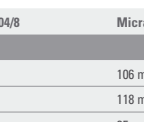





- Valentin 1701 Premium / Flat Type
- Valentin 1731 Premium / Flat Type
- Valentin 1706 Premium / Corner Edge
- Valentin 1708 Premium / Corner Edge

» Special (resin)


These resin ribbons were developed especially for printing type plates with excellent rubbing and scratching resistance. They are used when excellent rubbing and scratching resistance is needed. These ribbons are partially heat resistant up to approx. 250°C.




- Valentin 1702 Special / Flat Type
- Valentin 1732 Special / Flat Type
- Valentin 1707 Special / Corner Edge

» TECHNICAL DATA



	MICRA SERIES		PICA II SERIES		VITA II SERIES		
							
	Micra 104/8	Micra 106/12	Pica II 104/8	Pica II 106/12	Vita II 104/8	Vita II 106/12	Vita II 106/24
PRINT							
Print Width	104 mm	106 mm	104 mm	105.7 mm	104 mm	105.7 mm	105.7 mm
Max. Label Width	118 mm	118 mm	110 mm	110 mm	116 mm	116 mm	116 mm
Min. Label Width	25 mm	25 mm	15 mm	15 mm	12 mm	12 mm	12 mm
Max. Print Height	850 mm / 800 mm**	600 mm / 550 mm**	750 mm / 650 mm** (higher on demand)	650 mm / 450 mm** (higher on demand)	6,000 mm (higher on demand)	3,000 mm (higher on demand)	1,000 mm (higher on demand)
Min. Label Height	12 mm	12 mm	6 mm / 15 mm***	6 mm / 21 mm***	5 mm / 15 mm***	5 mm / 15 mm***	5 mm / 15 mm***
Resolution	203 dpi	300 dpi	200 dpi	300 dpi	203 dpi	300 dpi	600 dpi
Max. Print Speed	100 mm/s	100 mm/s	100 mm/s	100 mm/s	200 mm/s	150 mm/s	100 mm/s
Printhead	Flat Type	Flat Type	Flat Type	Flat Type	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal transfer
FONTS							
Vector Fonts	–		–		Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace		
Bitmap Fonts	6		6		6		
Proportional Fonts	6		6		6		
BAR CODE							
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		
2D Bar Codes	CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		
INTERFACES							
Serial	RS-232C (max. 57,600 baud)		RS-232C (max. 115,200 baud)		RS-232C (max. 115,200 baud)		
Parallel	Centronics		Centronics		Centronics		
USB	1.1		2.0 High Speed Slave + 2 x USB Master connection for an external USB keyboard and USB memory stick		2.0 High Speed Slave + 2 x USB Master connection for an external USB keyboard and USB memory stick		
Ethernet / LAN	10/100 Base-T*		10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP		10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP		
LABEL							
Core Diameter	25.4 mm / 38.1 mm / 76.2 mm		40 mm / 75 mm*		40 mm / 75 mm*		
Max. Roll Diameter	127 mm		180 mm		180 mm		
Internal Unwinding	–		–		–		
Internal Rewinding	–		–		–		
TRANSFER RIBBON							
Core Diameter	25.4 mm / 1"		25.4 mm / 1"		25.4 mm / 1"		
Max. Length	300 m		300 m		300 m		
Max. Roll Diameter	68 mm		70 mm		80 mm		
Coating	outside		outside or inside*		inside or outside		
DIMENSIONS							
Width x Height x Depth	226 mm x 171 mm x 285 mm		230 mm x 230 mm x 350 mm		236 mm x 238 mm x 374 mm		
WEIGHT							
	approx. 3 kg		approx. 9 kg		approx. 11 kg		
CONNECTION VALUES							
Nominal Voltage	24 VDC / 2 A Separate power supply: 110–230 V / 50–60 Hz		100–120 VAC / 50–60 Hz 200–240 VAC / 50–60 Hz Voltage adjustment by an internal voltage selector Pre-adjustment: 230 V		110–230 V / 50–60 Hz		
Max. Power Consumption	70 VA		150 VA		150 VA		
OPERATING CONDITIONS							
Temperature	5–35 °C		5–35 °C		5–35 °C		
Max. Relative Humidity	80 % (non-condensing)		80 % (non-condensing)		80 % (non-condensing)		

* optional ** with option Ethernet/LAN *** in cutter or dispenser mode

VITA II SERIES			COMPA II SERIES			
						
	Vita II 103/8 T	Vita II 108/12 T	Compa II 104/8	Compa II 106/12	Compa II 106/24	Compa II 162/12
PRINT						
Print Width	104 mm	108.4 mm	104 mm	105.7 mm	105.6 mm	162.6 mm
Max. Label Width	116 mm	116 mm	116 mm	116 mm	116 mm	176 mm
Min. Label Width	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm
Max. Print Height	6,000 mm (higher on demand)	3,000 mm (higher on demand)	6,000 mm (higher on demand)	3,000 mm (higher on demand)	1,000 mm (higher on demand)	2,000 mm (higher on demand)
Min. Label Height	5 mm / 15 mm***	5 mm / 15 mm***	5 mm / 25 mm***	5 mm / 25 mm***	5 mm / 25 mm***	6 mm / 25 mm***
Resolution	203 dpi	300 dpi	203 dpi	300 dpi	600 dpi	300 dpi
Max. Print Speed	200 mm/s	150 mm/s	200 mm/s	200 mm/s	150 mm/s	150 mm/s
Printhead	Flat Type for thermal direct	Flat Type for thermal direct	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal transfer
FONTS						
Vector Fonts	Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace		Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace			
Bitmap Fonts	6		6			
Proportional Fonts	6		6			
BAR CODE						
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E			
2D Bar Codes	CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code			
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated			
INTERFACES						
Serial	RS-232C (max. 115,200 baud)		RS-232C (max. 115,200 baud)			
Parallel	Centronics		Centronics			
USB	2.0 High Speed Slave + 2 x USB Master connection for an external USB keyboard and USB memory stick		2.0 High Speed Slave + 2 x USB Master connection for an external USB keyboard and USB memory stick			
Ethernet / LAN	10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP		10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP			
LABEL						
Core Diameter	40 mm / 75 mm*		40 mm / 75 mm*			
Max. Roll Diameter						
Internal Unwinding	180 mm		200 mm			
Internal Rewinding	-		145 mm*			
TRANSFER RIBBON						
Core Diameter	-		25.4 mm / 1"			
Max. Length	-		300 m			
Max. Roll Diameter	-		80 mm			
Coating	-		inside or outside			
DIMENSIONS						
Width x Height x Depth	236 mm x 238 mm x 374 mm		242 mm x 274 mm x 446 mm		242 mm x 274 mm x 446 mm	
WEIGHT						
	approx. 11 kg		approx. 10 kg		approx. 10 kg	
CONNECTION VALUES						
Nominal Voltage	110-230 V / 50-60 Hz		110-230 V / 50-60 Hz			
Max. Power Consumption	150 VA		150 VA			
OPERATING CONDITIONS						
Temperature	5-35 °C		5-35 °C			
Max. Relative Humidity	80 % (non-condensing)		80 % (non-condensing)			

COMPA II SERIES				VARIO II SERIES		SPECTRA SERIES	
							
Compa II 103/8 T	Compa II 108/12 T	Compa II 162/12 T	Vario II 104/8	Vario II 107/12	Spectra 107/12	Spectra 108/12	
PRINT							
Print Width	104 mm	108.4 mm	162.6 mm	104 mm	106.6 mm	106.6 mm	108.4 mm
Max. Label Width	116 mm	116 mm	176 mm	110 mm	110 mm	116 mm	116 mm
Min. Label Width	12 mm	12 mm	12 mm	15 mm	15 mm	15 mm	15 mm
Max. Print Height	6,000 mm (higher on demand)	3,000 mm (higher on demand)	2,000 mm (higher on demand)	2,800 / 2,500 mm**	1,200 / 1,100 mm**	1,200 mm / 1,100 mm**	1,200 mm / 1,100 mm**
Min. Label Height	5 mm / 25 mm***	5 mm / 25 mm***	6 mm / 25 mm***	6 mm / 15 mm***	6 mm / 15 mm***	6 mm / 15 mm***	6 mm / 15 mm***
Resolution	203 dpi	300 dpi	300 dpi	203 dpi	304 dpi	305 dpi	300 dpi
Max. Print Speed	200 mm/s	150 mm/s	150 mm/s	200 mm/s	200 mm/s	300 mm/s	300 mm/s
Printhead	Flat Type for thermal direct	Flat Type for thermal direct	Flat Type for thermal direct	Flat Type	Flat Type	Corner Type	Flat Type
FONTS							
Vector Fonts	Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace			Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace		Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace	
Bitmap Fonts	6			6		6	
Proportional Fonts	6			6		6	
BAR CODE							
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E			CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E	
2D Bar Codes	CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code			CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code	
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated			GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated	
INTERFACES							
Serial	RS-232C (max. 115,200 baud)			RS-232C (max. 57,600 baud), RS422*, RS-485*		RS-232C (max. 57,600 baud), RS422*, RS-485*	
Parallel	Centronics			Centronics		Centronics	
USB	2.0 High Speed Slave + 2 x USB Master connection for an external USB keyboard and USB memory stick			1.1		1.1	
Ethernet / LAN	10/100 Base T, LTPD, RawIP-Printing, DHCP, HTTP, FTP			10/100 Base-T*		10/100 Base-T*	
LABEL							
Core Diameter	40 mm / 75 mm*			40 mm / 75 mm*		40 mm / 75 mm*	
Max. Roll Diameter							
Internal Unwinding	200 mm			200 mm		200 mm	
Internal Rewinding	145 mm*			100 mm		160 mm*	
TRANSFER RIBBON							
Core Diameter	-			25.4 mm / 1"		25.4 mm / 1"	
Max. Length	-			300 m		450 m	
Max. Roll Diameter	-			80 mm		90 mm	
Coating	-			inside or outside		inside or outside	
DIMENSIONS							
Width x Height x Depth	242 mm x 274 mm x 446 mm	242 mm x 274 mm x 446 mm	302 mm x 274 mm x 446 mm	230 mm x 310 mm x 450 mm		275 mm x 380 mm x 475 mm	
WEIGHT							
	approx. 10 kg	approx. 10 kg	approx. 14 kg	approx. 16 kg		approx. 19 kg	
CONNECTION VALUES							
Nominal Voltage	110-230 V / 50-60 Hz			230 V / 50-60 Hz - Fuse: 1 AT 115 V / 50-60 Hz - Fuse: 2 AT*		230 V / 50-60 Hz - Fuse: 3.15 AT 115 V / 50-60 Hz - Fuse: 6.3 AT*	
Max. Power Consumption	150 VA			150 VA		320 VA	
OPERATING CONDITIONS							
Temperature	5-35 °C			5-35 °C		5-35 °C	
Max. Relative Humidity	80 % (non-condensing)			80 % (non-condensing)		80 % (non-condensing)	

* optional ** with option Ethernet/LAN *** in cutter or dispenser mode

SPECTRA SERIES				SPX SERIES		
						
Spectra 160/12	Spectra 162/12	Spectra 216/12	SPX 104/8	SPX 106/12	SPX 162/12	
PRINT						
Print Width	160 mm	162.6 mm	216.8 mm	104 mm	105.7 mm	162.6 mm
Max. Label Width	176 mm	176 mm	226 mm	116 mm	116 mm	176 mm
Min. Label Width	50 mm	50 mm	100 mm	25 mm	25 mm	50 mm
Max. Print Height	800 mm / 700 mm**	800 mm / 700 mm**	600 mm / 500 mm**	2,800 mm / 2,500 mm**	1,300 mm / 1,100 mm**	800 mm / 700 mm**
Min. Label Height	15 mm / 25 mm***	15 mm / 25 mm***	15 mm / 25 mm***	15 mm	15 mm	15 mm
Resolution	305 dpi	300 dpi	300 dpi	203 dpi	300 dpi	300 dpi
Max. Print Speed	150 mm/s	150 mm/s	100 mm/s	250 mm/s	250 mm/s	150 mm/s
Printhead	Corner Type	Flat Type	Flat Type	Flat Type	Flat Type	Flat Type
FONTS						
Vector Fonts	Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace			Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace		
Bitmap Fonts	6			6		
Proportional Fonts	6			6		
BAR CODE						
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E			CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E		
2D Bar Codes	CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code			CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code		
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated			GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated		
INTERFACES						
Serial	RS-232C (max. 57,600 baud), RS422*, RS-485*			RS-232C (max. 19,200 baud)		
Parallel	Centronics			Centronics		
USB	1.1			1.1		
Ethernet / LAN	10/100 Base-T*			10/100 Base-T		
LABEL						
Core Diameter	40 mm / 75 mm			-		
Max. Roll Diameter	-			-		
Internal Unwinding	200 mm			-		
Internal Rewinding	160 mm*			-		
TRANSFER RIBBON						
Core Diameter	25.4 mm / 1"			25.4 mm / 1"		
Max. Length	450 m			approx. 600 m		
Max. Roll Diameter	90 mm			90 mm		
Coating	inside or outside			inside or outside		
DIMENSIONS						
Width x Height x Depth	335 mm x 380 mm x 475 mm		385 mm x 380 mm x 475 mm	245 mm x 300 mm x 400 mm		245 x 300 x 460 mm
WEIGHT						
	approx. 21 kg		approx. 28 kg	approx. 12 kg		approx. 14 kg
CONNECTION VALUES						
Nominal Voltage	230 V / 50 – 60 Hz – Fuse: 3.15 AT 115 V / 50 – 60 Hz – Fuse: 6.3 AT*			110 – 230 V / 50 – 60 Hz Fuse: 230 V – 2 AT Fuse: 110 V – 4 AT		
Max. Power Consumption	320 VA			320 VA		
OPERATING CONDITIONS						
Temperature	5 – 35 °C			5 – 40 °C		
Max. Relative Humidity	80 % (non-condensing)			80 % (non-condensing)		

SPE SERIES



	SPE 107/12	SPE 160/12	SPE 104/8	SPE 106/12	SPE 108/12	SPE 162/12
PRINT						
Print Width	106.6 mm	160 mm	104 mm	106.6 mm	108.4 mm	162.2 mm
Max. Label Width	116 mm	176 mm	116 mm	116 mm	116 mm	176 mm
Min. Label Width	25 mm	50 mm	25 mm	25 mm	25 mm	50 mm
Max. Print Height	1,200 mm / 1,100 mm**	900 mm / 700 mm**	1,900 mm / 1,700 mm**	1,200 mm / 1,100 mm**	1,200 mm / 1,100 mm**	800 mm / 700 mm**
Min. Label Height	15 mm	15 mm	15 mm	15 mm	15 mm	15 mm
Resolution	305 dpi	305 dpi	203 dpi	300 dpi	300 dpi	300 dpi
Max. Print Speed	300 mm/s	200 mm/s	200 mm/s	200 mm/s	300 mm/s	150 mm/s
Printhead	Corner Type	Corner Type	Flat Type	Flat Type	Flat Type	Flat Type
FONTS						
Vector Fonts	Helvetica Bold, Helvetica Roman, Swiss light, Baskerville, Brush Script, Monospace					
Bitmap Fonts	6					
Proportional Fonts	6					
BAR CODE						
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128 (EAN 128), Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E					
2D Bar Codes	CODABLOCK F, DataMatrix, MAXICODE, PDF417, QR Code					
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated					
INTERFACES						
Serial	RS-232C (max. 57,600 baud), RS422*, RS-485*					
Parallel	Centronics					
USB	1.1					
Ethernet / LAN	10/100 Base-T*					
LABEL						
Core Diameter	-					
Max. Roll Diameter	-					
Internal Unwinding	-					
Internal Rewinding	-					
TRANSFER RIBBON						
Core Diameter	25.4 mm / 1"					
Max. Length	600 m					
Max. Roll Diameter	90 mm					
Coating	inside or outside					
DIMENSIONS						
Width x Height x Depth	Print module: 300 mm x 300 mm x 245 mm Control unit: 285 mm x 140 mm x 360 mm					
WEIGHT						
	Print module: approx. 11 kg Control unit: approx. 9 kg					
CONNECTION VALUES						
Nominal Voltage	230 V / 50-60 Hz – Fuse: 3.15 AT 115 V / 50-60 Hz – Fuse: 6.3 AT*					
Max. Power Consumption	360 VA					
OPERATING CONDITIONS						
Temperature	5 – 40 °C					
Max. Relative Humidity	80 % (non-condensing)					

* optional ** with option Ethernet/LAN *** in cutter or dispenser mode



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