

# 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. 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

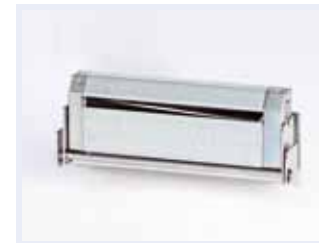
» Appealing design and compact overall size

- 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/m<sup>2</sup> 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/m<sup>2</sup> 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 Unwinder Unit

The unwinder 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
- 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/m<sup>2</sup>.



#### » 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 PR49.



#### » Rewinder Unit PR48 for Labels and Backing Paper

With the external rewinder PR48 label rolls up to a diameter of 180 mm can be rolled up. The rewinder is connected directly to the printer and needs no own mains supply.



#### » 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

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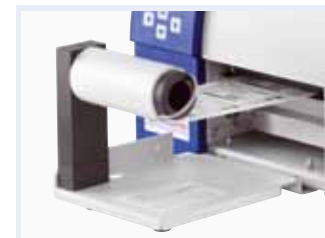
### » Label Dispenser Unit

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 PR49.



### » 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 rewinder PR48 label rolls up to a diameter of 180 mm can be rolled up. The rewinder is connected directly to the printer and needs no own mains supply. The rewinder unit PR49 serves to roll up backing paper in dispensing mode of printer.



# » COMPA II SERIES

## » Modular structure for high versatility

- Large label rolls up to a diameter of 200 mm
- Print speed up to 200 mm/s
- Simplest operating and maintenance ability
- Large graphic display with 132 x 64 pixels and white background lighting
- Interfaces integrated as default: LAN, USB as well as serial and parallel port
- Optional WLAN 802.11 b/g interface
- 2-fold USB Host for connection of USB keyboard and memory stick as well as a slot for Compact Flash card

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 rewinder.



### » Cutter Unit

The half-rotary cutter of Compa II series permits fast cutting of different label materials up to a weight of 220 g/m<sup>2</sup>. 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 rewinder units PR10 and PR15 it is possible to process label rolls up to a diameter of 210 mm. The rewinders are bolted directly to the printer. With the rewinding units PR12 and PR17 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.



### » 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.

# » APPLICATOR APL 100

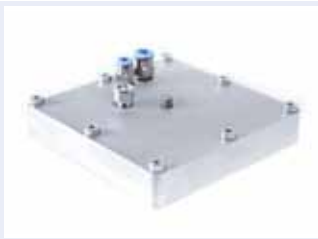
The applicator APL 100 is an optional device to use with label printers of the Compa II series for automatically applying the printed label onto the product. The labels are transferred with a pad, which moves between the two positions, starting position and labelling position, by a compressed-air driven pneumatic cylinder. In the starting position, the label is picked up from the printer. A sensor at the cylinder signals when the pad is in the starting position. The label is removed from the carrier ribbon directly at the dispense edge of the printer. It is sucked on the pad by a vacuum via drillings at the bottom of the pad. For support, the label is also blown against the pad (supporting air) with an air current coming from a blow tube. The correct transfer of the label is controlled by a vacuum sensor.

Next, the pad is moved down into the labelling position. Reaching the labelling position is confirmed by another sensor (labelling position sensor). In the labelling position the label is transferred onto the product. While the pad is moving back into the starting position, the vacuum sensor checks whether the label has been removed from the pad. The supporting air and the vacuum as well as the speed of the cylinder are adjustable. That way the applicator can be adapted to different label materials and sizes. For integration into a superordinated process the printers are equipped with ‚Dispenser I/O‘.



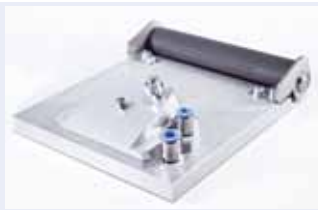
### » Tamp pad

During the print and apply cycle the product remain fixed. The universal tamp is covered by a foil. According to the size of the label the holes can be pierced. The tamp pads are customized to the dimensions of the label sizes on request.



### » Blow pad

For non-applying pressure to sensitive products the label can be blown onto the product with the supporting air jet stream. The print and apply cycle performs in a fixed position or in a linear movement of the product. The blow pad moves to a preadjusted position approx. 10 mm away from the product.



### » Roll-on pad

In the starting position the label is forwarded until touching the roller of the roll on pad. At the labelling position the roller is pressed onto the product. Then the label is applied and rolled on by the movement of the product.

	STAMP ON	BLOW ON	ROLL ON
Label width (mm)	25–176	25–176	25–176
Label height (mm)	25–200	25–100	80–200
Cylinder stroke (mm)	300		
Pad stroke below printer (mm)	180		
Compressed air pressure	5 bar		
Product surface	flat		
Product height variable	✓		✓
Product height fixed		✓	
Product fixed	✓	✓	
Product linear movement		✓	✓



# » VARIO III SERIES

» Bestselling device already in its third generation

- Print speed up to 250 mm/s
- Graphic display with backlight
- Standard integrated 3x USB interface
- Internal label rewinder
- Optionally with 7" touch-screen display
- Unicode-compliant for multilingual applications
- Foil keyboard with number pad
- Optionally available with RFID function, bar code scanner and WLAN
- Optional dispenser input/output of most recent generation
- Exchange of wear parts with few steps

The Vario series, which has already proved successful for a number of years, has been revised both technically and visually and Vario III combines all the functions of a solid and extremely reliable label printer with excellent ease of use. Like its precursors, the new device also has all the well-known options such as the cutter unit, dispenser unit, external rewinder, RFID and scanner. A WLAN interface for radio data transfer can be installed as a new option. The large, optional touch-screen display is simple and comfortable to operate. Using a cursor, a mouse or something similar is unnecessary as thanks to modern technology the touch-screen display is operated by finger like current smartphones or tablet PCs. As an environmentally friendly company, Valentin is aware of its responsibilities and manufactures the Vario III from recyclable components and materials. The series also uses very little energy.



## » Interfaces

The Vario III series printers are equipped as standard with a parallel, serial, USB and LAN interface. A WLAN 802.11 b/g interface for radio data transfer can be installed optionally. On the back of the device, a 2x USB host to connect a USB memory stick or a USB keyboard has been added. The additional mounting of a USB host on the front side enables simpler and more comfortable accessibility.



## » Touch-screen

The user interface does not consist of the keys known previously but of a capacitive touch-screen providing operation known from smartphones. The display is optionally available with 7" diagonal and with a maximum resolution of 800 x 480 pixels. Graphic symbols and a print preview of the label from the memory card are shown on the LCD operating panel.



## » Cutter Unit

The cutter unit's tested and reliable guillotine form allows for easy cutting of materials such as thick cardboard up to a weight of approx. 240 g/m<sup>2</sup>. As usual, the cutter can be upgraded without technical difficulty. A very high service life (up to 1 million cuts or more) can be achieved due to the use of a powerful motor and hardened knife edges, irrespective of the material used.



## » Label Dispenser Unit

A dispenser photocell or dispenser adapter can optionally be used to dispense labels. In manual operation, the photocell detects the label in the dispenser position and interrupts the print job. Once the label dispensed previously has been removed, the next label is printed automatically for the queuing job. In automatic operation, both the printing and the dispensing of labels are triggered by an external signal. The label can be removed by an applicator, for example.



# » 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 rewinder.



## » Cutter Unit

The half-rotary cutter permits fast cutting of different label materials up to a weight of 220 g/mm<sup>2</sup>. 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 PR45 and PR45s

Labels can be rolled up after printing up to a maximum outside diameter of 270 mm. The rewinders PR45 and PR45s 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.

## » DUOPRINT SERIES

### » Simultaneous printing of two colours

- Two thermal transfer printing units arranged one behind the other
- Perfect solution for GHS requirements
- The second print unit is additionally equipped with ribbon saving
- Stable metal housing
- For large label rolls with diameters up to 300 mm

The DuoPrint provides the ideal solution in which labels as well as textiles and plastics can be printed in two colours with one working process. The user can select from a multitude of colour combinations. A current application of the DuoPrint is the implementation of the requirements for the new classification and labelling guideline for chemicals in accordance with GHS. Of course, two colour printing of special warning and information labels as well as pricing labels and the further printing of corporate logos and trademarks in colour are possible without difficulty.

A large selection of coloured transfer ribbons ensures qualitative high grade and sharp printing for all applications.

With two printheads arranged one behind the other, labels are printed with two different colours. The second printing unit is equipped with ribbon saving function by default. Therefore in blank areas the printhead is raised and the transfer ribbon consumption is reduced to a minimum.



### » External Label Unwinder Unit

A special unwinder is exactly what is needed to be able to work quickly and effectively with label rolls. The unwinding units PA80 for DuoPrint 107/12 and PA81 for DuoPrint 160/12 are equipped with an adjustable brake. This keeps the label band evenly tightened and avoids tolerance problems while „double printing“. The feeding of this unwinder with label rolls is extremely user friendly.



### » Label Rewinders with Independent Power Supply

The external rewinders can be fastened to the printer and require their own mains connection. The rewriter allows labels to be rewound immediately after they have been printed. While processing large print jobs it is possible to take up large label rolls and wind them independently of the printer. The winding direction can be selected freely for both the internal and external winding.



### » Available Interfaces

All common interfaces such as RS-232, USB 2.0 and Ethernet 10/100 Base-T are available. Two additional USB ports for keyboard or scanner are also integrated as standard.



### » Compact Cover

The DuoPrint models are equipped with a stable metal housing and a two piece cover, which is folded in when opened. The side cover equipped with an inspection glass enables the user always to see the remaining transfer ribbon. With the unwinder for large label rolls up to a diameter of 300 mm, the user is required to refill the material far less frequently.



### » Software

The DuoPrint is delivered with a printer driver which includes integrated colour recognition. Alternatively the label creation software Labelstar PLUS can be used. The software controls which parts of the label are printed by the first or second printing unit. Existing layouts can be saved to a CF card or a USB memory stick, opened and/or modified with a PC keyboard and finally stand-alone printed.

## » SPX II SERIES

» High-performance print module designed for labelling in production lines

- Thermal version or thermal transfer version
- Right and left version
- Detachable, mobile control unit
- Inputs/Outputs
- 3 x USB host for connection of an external USB keyboard and an USB memory stick
- Ports: RS-232, Centronics, USB and Ethernet
- Slot for CF card

Using the SPX II series print module, labels, textiles and plastic materials can be printed on with a high resolution both in the dispensing mode and continuous operation mode. The assembly of the print module is possible both in a horizontal and vertical installation position and, due to its detachable and mobile control unit, the print module can be easily integrated into almost any packaging system. The print modules designed for high-speed applications with a high throughput of labels are particularly suited for printing and application systems such as mail sorting systems, pallet labelling and labelling of electronic components. In addition to the current printheads for thermal transfer printing, durable printheads are offered in particular for thermal direct printing. In the development process of the SPX II series, great attention was paid to ensure that both housing and printing mechanics are made of high-quality materials and thus guarantee a high level of reliability, even under harsh operating conditions.



### » Right-hand and Left-hand Versions

The SPX II series high-performance print modules are pure printing systems to be integrated into existing labelling systems. 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

In order to be able to provide individual industry solutions for food, beverage, chemical and pharmaceutical industries and medical engineering etc., the housing of all SPX II series devices can, on request, be made of stainless steel which meets the highest of hygiene standards.

## » 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-hand and Left-hand Versions

Right-hand 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.

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.



## » 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
- » Thermal Labels
- » Plastic Labels



## » NETSTAR PLUS

### PRINTING PROCESS AND CONTROL SYSTEM

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.



## » CONFIG TOOL

### CONFIGURATION SOFTWARE

With the ConfigTool our printing systems and Touch Panels can be configured and updated. Alternatively the configuration of devices can be made by parallel, serial, USB or network interface. The ConfigTool facilitates selecting, changing and transferring all common parameters and options. Devices without LCD display can be configured comfortably and without difficulties in the appropriate dialog windows. The configuration of one and/or several devices can be saved in the printer configuration file.



## » TRANSFER RIBBONS

### » Standard (wax)

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

### » Premium (wax/resin)


These transfer ribbons were developed especially for printing bar codes, texts 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.

### » 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.




»TECHNICAL DATA

	MICRA SERIES		PICA II SERIES			
						
	Micra 104/8	Micra 106/12	Pica II 104/8	Pica II 106/12	Pica II 103/8 Pica II 103/8 T	Pica II 108/12 Pica II 108/12 T
PRINT						
Print Width	104 mm	106 mm	104 mm	105.7 mm	104 mm	108.4 mm
Max. Label Width	118 mm	118 mm	110 mm	110 mm	110 mm	110 mm
Min. Label Width	25 mm	25 mm	15 mm	15 mm	15 mm	15 mm
Max. Print Height	850 mm / 800 mm **	600 mm / 550 mm **	750 mm / 650 mm ** (higher on demand)	750 mm / 650 mm ** (higher on demand)	650 mm / 450 mm ** (higher on demand)	650 mm / 450 mm ** (higher on demand)
Min. Label Height	12 mm / 15 mm ***	12 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***
Resolution	203 dpi	300 dpi	200 dpi	300 dpi	203 dpi	300 dpi
Max. Print Speed	100 mm/s	100 mm/s	100 mm/s	100 mm/s	100 mm/s	100 mm/s
Printhead	Flat Type	Flat 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		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, 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, 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, GS1 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)		RS-232C (max. 115,200 Baud)			
Parallel	Centronics		Centronics			
USB	1.1		2.0 High Speed Slave			
Ethernet / LAN	10/100 Base-T *		10/100 Base-T *, LPD, RawIP-Printing, DHCP, HTTP, FTP			
WLAN	–		802.11 b/g *			
LABEL						
Core Diameter	25.4 mm / 38.1 mm / 76.2 mm		40 mm / 75 mm *			
Max. Roll Diameter						
Internal Unwinding	127 mm		180 mm			
Internal Rewinding	–		–			
TRANSFER RIBBON (for thermal transfer use only)						
Core Diameter	25.4 mm / 1"		25.4 mm / 1"			
Max. Length	300 m		300 m			
Max. Roll Diameter	68 mm		70 mm			
Coating	outside		outside or inside *			
DIMENSIONS						
Width x Height x Depth (mm)	226 x 171 x 285		230 x 230 x 350			
WEIGHT						
	approx. 3 kg		approx. 9 kg			
CONNECTION VALUES						
Nominal Voltage	24 VDC / 2 A Separate power supply: 110–230 V / 50–60 Hz		230 V / 50–60 Hz – 2A 115 V / 50–60 Hz – 3A * Voltage adjustment by an internal voltage selector Pre-adjustment: 230 V			
Max. Power Consumption	70 VA		150 VA			
OPERATING CONDITIONS						
Temperature	5–35 °C		5–35 °C			
Max. Relative Humidity	80 % (non-condensing)		80 % (non-condensing)			

Technical data subject to change

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



VITA II SERIES					
					
Vita II 104/8		Vita II 106/12	Vita II 106/24	Vita II 103/8 Vita II 103/8 T	Vita II 108/12 Vita II 108/12 T
PRINT					
Print Width	104 mm	105.7 mm	105.7 mm	104 mm	108.4 mm
Max. Label Width	116 mm	116 mm	116 mm	116 mm	116 mm
Min. Label Width	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)	1,000 mm (higher on demand)	6,000 mm (higher on demand)	3,000 mm (higher on demand)
Min. Label Height	5 mm / 15 mm ***	5 mm / 15 mm ***	5 mm / 15 mm ***	5 mm / 15 mm ***	5 mm / 15 mm ***
Resolution	203 dpi	300 dpi	600 dpi	203 dpi	300 dpi
Max. Print Speed	200 mm/s	150 mm/s	100 mm/s	200 mm/s	150 mm/s
Printhead	Flat 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, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E				
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 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. 115,200 Baud)				
Parallel	Centronics				
USB	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				
WLAN	802.11 b/g *				
LABEL					
Core Diameter	40 mm / 75 mm *				
Max. Roll Diameter					
Internal Unwinding	180 mm				
Internal Rewinding	–				
TRANSFER RIBBON (for thermal transfer use only)					
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 (mm)	236 x 238 x 374				
WEIGHT					
	approx. 11 kg				
CONNECTION VALUES					
Nominal Voltage	110 – 230 V / 50 – 60 Hz				
Max. Power Consumption	150 VA				
OPERATING CONDITIONS					
Temperature	5 – 35 °C				
Max. Relative Humidity	80 % (non-condensing )				

Technical data subject to change



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

COMPA II SERIES					
					
	Compa II 104/8	Compa II 106/12	Compa II 103/8 T	Compa II 108/12 T	Compa II 162/12 T
PRINT					
Print Width	104 mm	105.7 mm	104 mm	108.4 mm	162.6 mm
Max. Label Width	116 mm	116 mm	116 mm	116 mm	176 mm
Min. Label Width	12 mm	12 mm	12 mm	12 mm	50 mm
Max. Print Height	6000 mm (higher on demand)	3000 mm (higher on demand)	6000 mm (higher on demand)	3000 mm (higher on demand)	2000 mm (higher on demand)
Min. Label Height	5 mm / 25 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	300 dpi
Max. Print Speed	200 mm/s	200 mm/s	200 mm/s	200 mm/s	150 mm/s
Printhead	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal direct	Flat Type for thermal direct	Flat Type for thermal direct
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, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E				
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 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. 115,200 Baud)				
Parallel	Centronics				
USB	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				
WLAN	802.11 b/g *				
LABEL					
Core Diameter	40 mm / 75 mm *				
Max. Roll Diameter					
Internal Unwinding	200 mm				
Internal Rewinding	145 mm *				
TRANSFER RIBBON (for thermal transfer use only)					
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 (mm)	242 x 274 x 446	242 x 274 x 446	242 x 274 x 446	242 x 274 x 446	302 x 274 x 446
WEIGHT					
	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 14 kg
CONNECTION VALUES					
Nominal Voltage	110–230 V / 50–60 Hz				
Max. Power Consumption	150 VA				
OPERATING CONDITIONS					
Temperature	5 – 35 °C				
Max. Relative Humidity	80 % (non-condensing)				

Technical data subject to change



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



VARIO III SERIE					
					
Vario III 103/8 Vario III 103/8 T		Vario III 104/8	Vario III 107/12	Vario III 107/24	Vario III 108/12 Vario III 108/12 T
PRINT					
Print Width	104 mm	104 mm	105.7 mm	105.7 mm	108.4 mm
Max. Label Width	110 mm	110 mm	110 mm	110 mm	110 mm
Min. Label Width	15 mm	15 mm	15 mm	15 mm	15 mm
Max. Print Height	6000 mm (higher on demand)	6000 mm (higher on demand)	3000 mm (higher on demand)	1000 mm (higher on demand)	3000 mm (higher on demand)
Min. Label Height	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***
Resolution	203 dpi	203 dpi	300 dpi	600 dpi	300 dpi
Max. Print Speed	250 mm/s	250 mm/s	250 mm/s	100 mm/s	250 mm/s
Printhead	Flat Type for thermal direct	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal transfer	Flat Type for thermal direct
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 128, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode, ITF 14, Leitcode, Pharmacode, PZN Code, UPC-A, UPC-E				
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF 417, 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. 115,200 Baud)				
Parallel	Centronics (SPP)				
USB	2.0 High Speed Slave + 3 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				
WLAN	802.11b/g *				
LABEL					
Core Diameter	40 mm / 75 mm *				
Max. Roll Diameter					
Internal Unwinding	200 mm				
External Rewinding	300 mm				
TRANSFER RIBBON (for thermal transfer use only)					
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 (mm)	230 x 310 x 450				
WEIGHT					
	approx. 16 kg				
CONNECTION VALUES					
Nominal Voltage	110-230 V / 50-60 Hz				
Max. Power Consumption	max. 150 VA				
OPERATING CONDITIONS					
Temperature	5-35 °C				
Max. Relative Humidity	80 % (non-condensing)				

Technical data subject to change



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



SPECTRA SERIES						DUOPRINT SERIES	
							
	Spectra 107/12	Spectra 108/12	Spectra 160/12	Spectra 162/12	Spectra 216/12	DuoPrint 107/12	DuoPrint 160/12
PRINT							
Print Width	106.6 mm	108.4 mm	160 mm	162.6 mm	216.8 mm	106.6 mm	160 mm
Max. Label Width	116 mm	116 mm	176 mm	176 mm	226 mm	116 mm	176 mm
Min. Label Width	15 mm	15 mm	50 mm	50 mm	100 mm	15 mm	50 mm
Max. Print Height	1,200 mm / 1,100 mm **	1,200 mm / 1,100 mm **	800 mm / 700 mm **	800 mm / 700 mm **	600 mm / 500 mm **	1,200 mm / 1,100 mm **	800 mm / 700 mm **
Min. Label Height	6 mm / 15 mm ***	6 mm / 15 mm ***	15 mm / 25 mm ***	15 mm / 25 mm ***	15 mm / 25 mm ***	25 mm	25 mm
Resolution	305 dpi	300 dpi	305 dpi	300 dpi	300 dpi	305 dpi	305 dpi
Max. Print Speed	300 mm/s	300 mm/s	150 mm/s	150 mm/s	100 mm/s	150 mm/s	120 mm/s
Printhead	Corner Type	Flat Type	Corner Type	Flat Type	Flat Type	Corner Type	Corner 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, 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, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E	
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF417, QR Code					CODABLOCK F, DataMatrix, GS1 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), RS-422 *, RS-485 *					RS-232C (max. 115,200 Baud)	
Parallel	Centronics					Centronics	
USB	1.1					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, RawID-Printing, DHCP, HTTP, FTP	
WLAN	–					–	
LABEL							
Core Diameter	40 mm / 75 mm *					40 mm / 75 mm *	
Max. Roll Diameter							
Internal Unwinding	200 mm					External Unwinding: 300 mm	
Internal Rewinding	160 mm *					External Rewinding: 300 mm *	
TRANSFER RIBBON							
Core Diameter	25.4 mm / 1"					25.4 mm / 1"	
Max. Length	450 m					450 m	
Max. Roll Diameter	90 mm					90 mm	
Coating	inside or outside					inside or outside	
DIMENSIONS							
Width x Height x Depth (mm)	275 x 380 x 475	275 x 380 x 475	335 x 380 x 475	335 x 380 x 475	385 x 380 x 475	275 x 380 x 475	335 x 380 x 475
WEIGHT							
	approx. 19 kg	approx. 19 kg	approx. 21 kg	approx. 21 kg	approx. 28 kg	approx. 22 kg	approx. 27 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	
Max. Power Consumption	320 VA					600 VA	
OPERATING CONDITIONS							
Temperature	5–35 °C					5–35 °C	
Max. Relative Humidity	80 % (non-condensing)					80 % (non-condensing)	



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

SPX II SERIES					
					
	SPX II 103/8	SPX II 104/8	SPX II 106/12	SPX II 108/12	SPX II 162/12
PRINT					
Print Width	104 mm	104 mm	105.7 mm	108.4 mm	162.2 mm
Max. Label Width	116 mm	116 mm	116 mm	116 mm	176 mm
Min. Label Width	25 mm	25 mm	25 mm	25 mm	50 mm
Max. Print Height	6000 mm (higher on demand)	6000 mm (higher on demand)	3000 mm (higher on demand)	3000 mm (higher on demand)	2000 mm (higher on demand)
Min. Label Height	15 mm	15 mm	15 mm	15 mm	15 mm
Resolution	203 dpi	203 dpi	300 dpi	300 dpi	300 dpi
Max. Print Speed	300 mm/s	300 mm/s	300 mm/s	300 mm/s	200 mm/s
Printhead	Flat Type (thick-film)	Flat Type (thin-film)	Flat Type (thin-film)	Flat Type (thick-film)	Flat Type (thick-film)
ACOUSTIC EMISSION (measuring distance 1m)					
Average acoustic power level	66.4 dB(A)	62.3 dB(A)	63.7 dB(A)	67.8 dB(A)	65.1 dB(A)
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 128, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode, ITF 14, Leitcode, Pharmacode, PZN Code, UPC-A, UPC-E				
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF 417, 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. 115,200 Baud)				
Parallel	Centronics (SPP)				
USB	2.0 High Speed Slave + 3 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				
WLAN	802.11b/g*				
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 (mm)	245 x 300 x 400	245 x 300 x 400	245 x 300 x 400	245 x 300 x 400	245 x 300 x 460
WEIGHT					
	12 kg	12 kg	12 kg	12 kg	14 kg
CONNECTION VALUES					
Nominal Voltage	110-230V / 50-60 Hz				
Max. Power Consumption	520 VA				
OPERATING CONDITIONS					
Temperature	5-35 °C				
Max. Relative Humidity	max. 80 % (non-condensing)				



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

Technical data subject to change

SPE SERIES						
<div><div></div><div></div></div>						
	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	1200 mm / 1100 mm **	900 mm / 700 mm **	1900 mm / 1700 mm **	1200 mm / 1100 mm **	1200 mm / 1100 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
ACOUSTIC EMISSION (measuring distance 1m)						
Average acoustic power level	68.4 dB(A)	69.7 dB(A)	61.4 dB(A)	62.8 dB(A)	64.1 dB(A)	65.3 dB(A)
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, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmacode, PZN Code, UPC-A, UPC-E					
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 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), RS-422 *, RS-485 *					
Parallel	Centronics					
USB	1.1					
Ethernet / LAN	10/100 Base-T *					
WLAN	–					
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 (mm)	Print module: 300 x 300 x 245 Control unit: 285 x 140 x 360					
WEIGHT						
	Print module: approx. 11 kg Control unit: approx. 9 kg					
CONNECTION VALUES						
Nominal Voltage	230 V / 50–60 Hz – Sicherung: 3.15 AT 115 V / 50–60 Hz – Sicherung: 6.3 AT *					
Max. Power Consumption	360 VA					
OPERATING CONDITIONS						
Temperature	5 – 40 °C					
Max. Relative Humidity	80 % (non-condensing)					

Technical data subject to change



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





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