

[DIVERSITY
OF LABELLING]

PRINTING/DISPENSING
LABELS



*PRINTING
AND DISPENSING

*IN A SINGLE OPERATION

*ANY CONCEIVABLE
SOLUTION

*PRINTING LABELS

*NUMEROUS INDUSTRIES

*LABELLING PALLETS

*MORE THAN 3.500
INSTALLED SYSTEMS
PER YEAR

Weber has solutions for highly efficient dispensing and printing of labels, in a single operation. Virtually any labelling task can be mastered, in the most diverse of industries. Whatever your labelling requirements – we provide you with the appropriate, efficient and effective solution. More than 3 500 installed systems per year spell out a clear message. We can show you a representative selection of solutions here – let us discuss what we can do specifically for you.



Industry: Beverages

Example:
Labelling of containers



Industry: Construction

Example:
Labelling of pallets on shrink wrap



Industry: Logistics

Example:
Labels for no-contact data storage and transmission



Industry: Wood

Example:
Printing and dispensing of labels for product marking



Industry: Tyres

Example:
Special labels for marking rubber



Industry: Engineering

Example:
Inner sleeve labelling



Industry: Metal/steel

Example:
Labelling of steel surfaces



Industry: Tools

Example:
Labelling of packaging



Industry: Trade

Example:
Labelling of cartons, with variable dispensing stroke



Industry: Paper

Example:
Dispensing of address labels for technical magazines



*MODULAR DESIGN

*SPECIAL DESIGNS

*RFID

*COMPLYING WITH
STANDARDS SUCH AS
EU 178, EU 135, GS1

why label with weber?

Be it product traceability in quality assurance, “tracking and tracing” in logistics, or just-in-time individual product marking: these days, up to date and fast marking of products is an absolute must in every modern production.

Not to mention standards such as EU 178, EU 135, GS1 stipulations for standardised labelling or innovative RFID solutions that require a labelling partner who is totally familiar with the requirements. Weber is your partner in this respect, offering you many years of expertise, a global presence and know-how covering any conceivable industries.

The label printers and dispensers are characterised by their modular design, comprising an unwinding and rewinding label roll spooler, control, print module and applicator. With up to 1 500 different configurations, this innovative system provides customised and individual solutions for any purpose. In addition to conventional solutions, custom-made designs can be realised together with the special machine builder Geset, a company within our BluhmWeber Group. The systems also cater for RFID labelling.

1 500 options through modular design – many functionalities

module 1
Label roll unwinder

module 2
Label roll rewinder

module 3
Print module

module 4
Applicator

module 5
Controller

Example:
LEGI AIR 5300

module 1/2

Label roll

350 mm diameter up to 600 running metres, 76 mm (3") core, labels outside (inside labels optional)

module 3

Printing technology

Thermal transfer or thermal direct

Print resolution

- 8 dots/mm (203 dpi)
- 12 dots/mm (300 dpi)
- 24 dots/mm (600 dpi)

Print speed

up to 400 mm per second

module 4

Dispensing head size (mm)

Tamp-blow standard from 12.5 x 7 to 180 x 300 mm, The label lengths are limited, depending on label quality. Longer or smaller labels are possible with special dispensing heads.

module 5

Data interfaces

All conventional interfaces (details in Print module brochure)

Printing dispenser activation

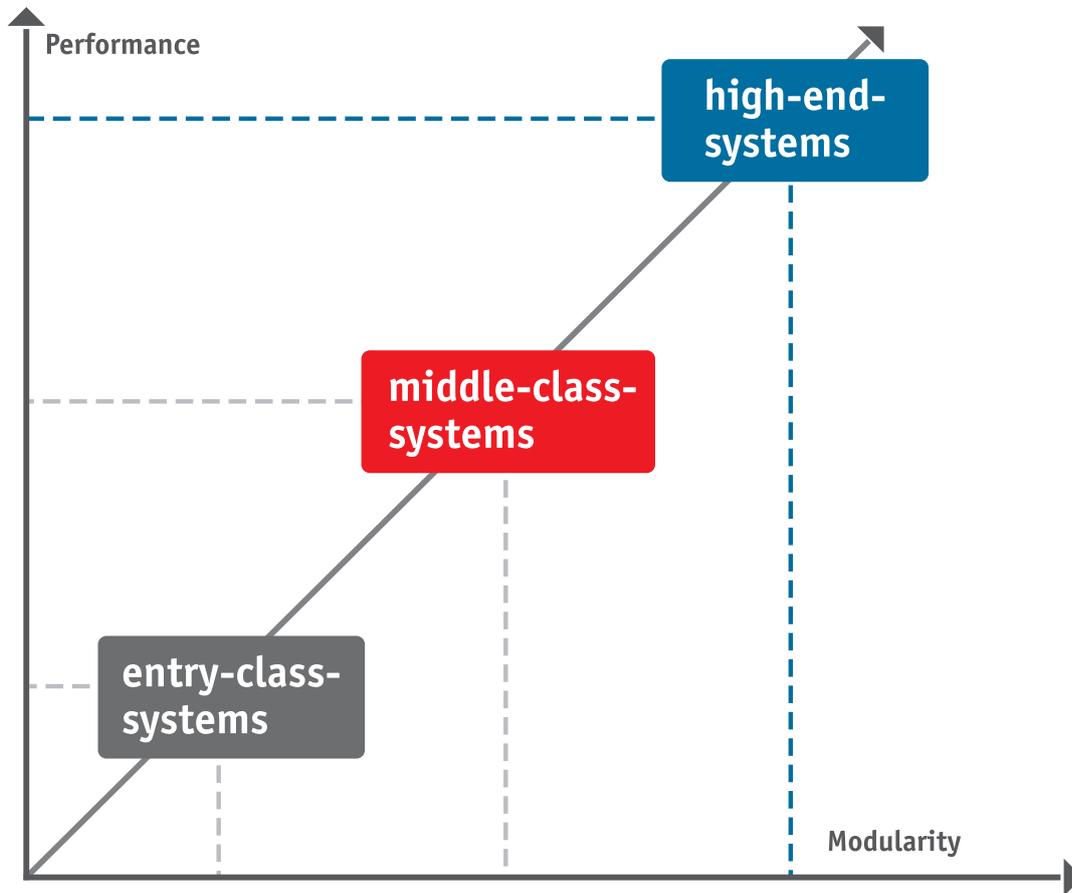
Reflex sensor, light barrier, inductive or capacitive sensor, micro switch, PLC output

Display controller

- With multi-language user guide
- Saving of completed label layouts
- Web interface for remote diagnosis
- Service interval display

the right system for each application

classification of the label printers and dispensers



entry-class systems

- space-saving design
- value for money solution, suited for many applications
- simple operation
- simple data interface options
- simple operating status display

middle-class systems

- light, compact industrial version
- Modular design for simple exchange of print module or applicator
- RFID-capable
- text display for diagnosis functions
- right- or left-handed version available for increased user-friendliness

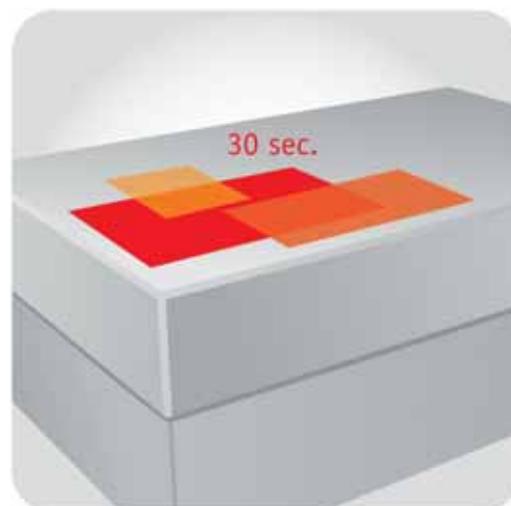
high-end systems

- robust industrial base unit for handling standard and special applicators
- modular construction for maximum flexibility with print modules
- RFID-capable with extended functions, e.g. flagtag
- many data interfacing options
- different controllers, e.g. touch graphic displays
- user-oriented through remote servicing option, e.g. also by e-mail or GSM
- low set-up and maintenance cycle times, e.g. through large label rolls
- also suited for extreme environments, e.g. through protective enclosure with IP protection

many options

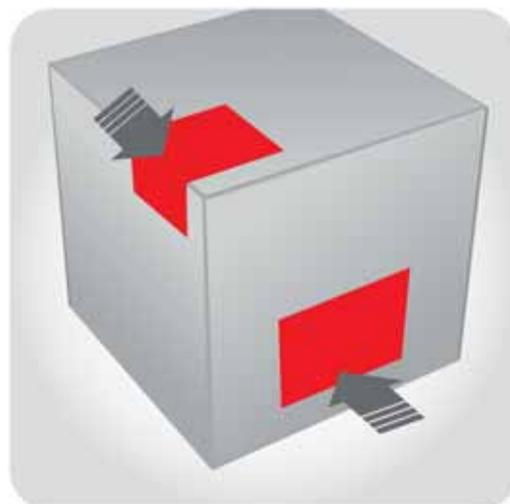
change of format

The label dispensing head is quick to replace (approx. 30 seconds), with our optional quick-change system. This means that our label printing dispensers are equipped for the most varied present and future labelling requirements – a system for many applications. Multi-chamber dispensing heads are alternatively available. Depending on the label size in use, only those chambers required for the dispensing process are supplied with air. Advantage: Different label sizes can be processed with a single printing dispenser system. This saves set-up time and is cost-effective.



labelling from all sides

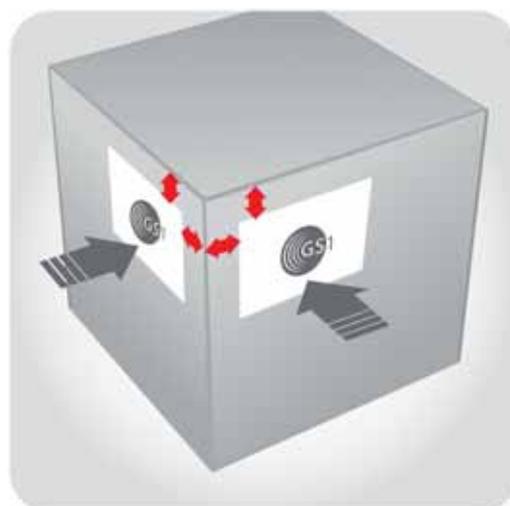
The variable design of the systems enables marking wherever necessary. With corner labelling, products are marked with a label overlapping two adjacent product sides, positioned either lengthwise or across. This ensures that one marked side is always visible. With two-sided labelling (label 1 = side, label 2 = face or back) product side and position of the markings are freely selectable. Individual sides can in this way be marked with different information. With sleeve inner core labelling, concave interiors of products can be reliably labelled.



GS1 compatible

Precise labelling guidelines must be observed for the dispatch of pallets in the food and non-food industries. This requires that each pallet must bear the special EAN 128 pallet label stipulated by GS1 on the face and the adjacent right-hand long side – in each case 50 mm from the edge. The most important data carrier here is the EAN 128 barcode with the so-called SSCC number of the dispatched item. The manufacturer's company number and a pallet number, which may only be re-used after one year, are encoded in this 18-digit number.

The modular Legi-Air 4050P labels pallets either continuously or when stationary.





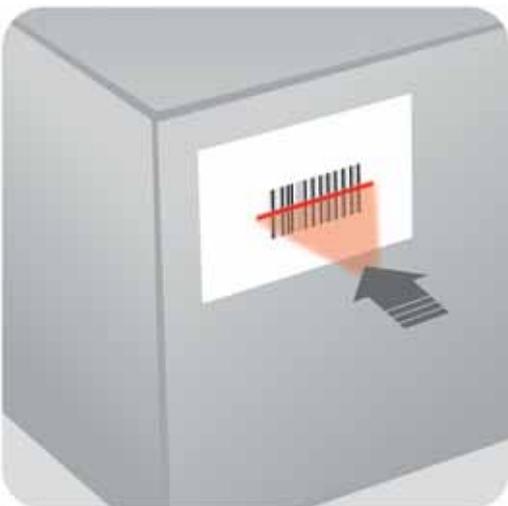
critical surfaces

Inclined or round surfaces are reliably labelled with the gimbal dispensing head. Spring loaded, the dispensing head adapts to the most diverse of product surfaces. When the product is touched, an optional integrated sensor is triggered which activates additional label blow-off and reverse movement.



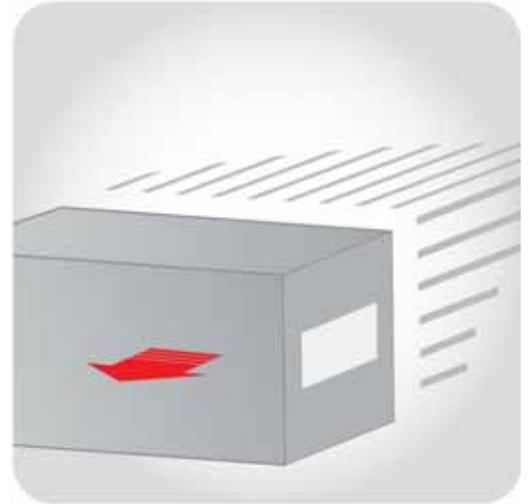
label reliability

A barcode scanner – mounted on the dispensing head – verifies the printed or currently dispensed label. If the barcode on the label is illegible, a new label is immediately dispensed onto the product or packaging. Barcode control scanners are also available, operating independently of the label printing dispenser.



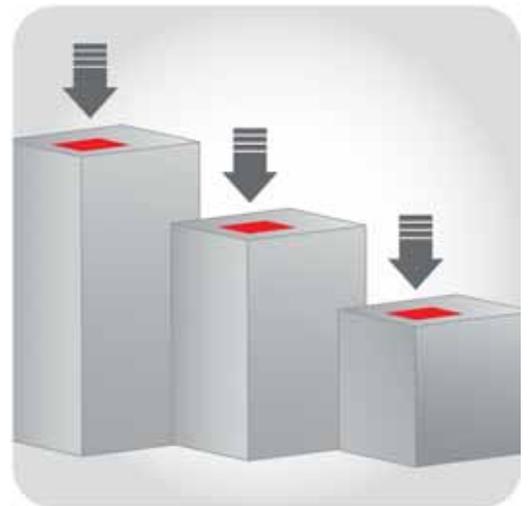
speed

The blow box applicator type enables maximum dispensing cycle frequencies. Up to 4 labels can be dispensed per second in “print-dispensing operation” and more than 35 labels per second in “dispensing-only operation”. Depending on the label material and size, dispensing distances (blow box bottom to product surface) of up to 100 mm can be bridged.



heights / distances

Different product heights can be reliably marked by means of a sensor-controlled variable dispensing stroke. A long stroke is, for instance, ideal for labelling of products having highly variable dimensions. We offer you solutions enabling dispensing strokes of up to 1.20 m. Processing label sizes up to 180 x 300 mm.



freely selectable height positions

Different labelling requirements such as labelling of stacked packages or doubled pallets demand freely selectable height positioning of the applicator. Standard travels are available to move the device to the required position. These may be: simple, manually operated electrical adjustments, a pneumatic shaft or freely positionable, electric servo shafts. Speak to us about your optimal solution.





precision

Precision guidance enables tolerances of ± 0.5 mm. In this way, window profiles or printed circuit boards can be labelled using special guide rails and tamp-blow applicators.



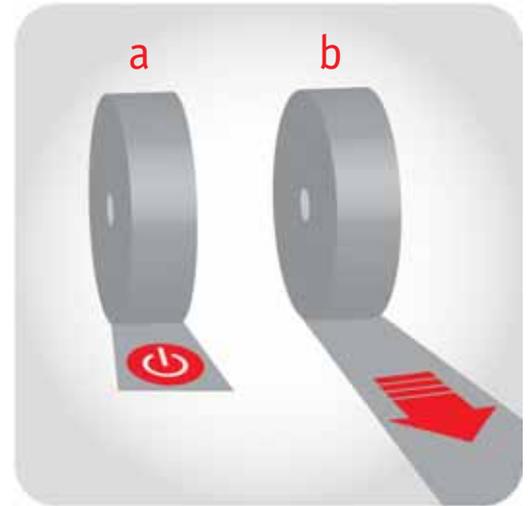
rfid

RFID is in the process of revolutionising the world of marking. Many Weber products are RFID-compatible already. A transponder – a computer chip with aerial – may, for instance store the serial number of the product and the EPC code (electronic product code) and transmit these to a reader, without visual contact. Such no-contact product identification enables applications through which significant savings in production and logistics are possible.



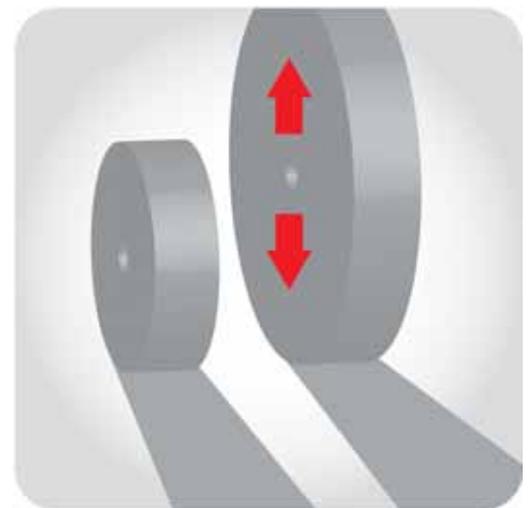
tandem operation

Tandem operation enables uninterrupted availability of the system. By using two printing dispensers in tandem mode, idle times when changing a label roll are eliminated.



long production running time

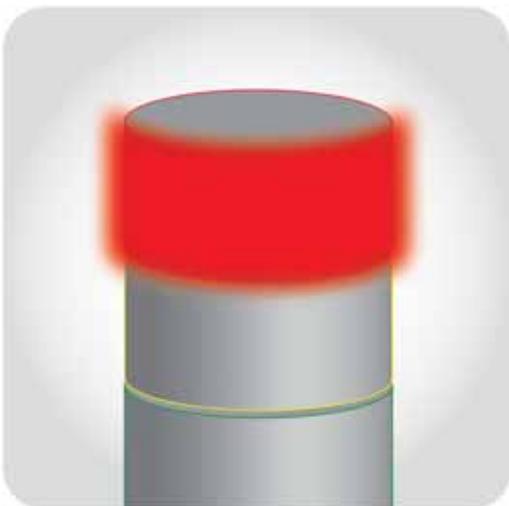
The PU0 large roll rewriter and unwinder enables processing of label rolls with a roll diameter of up to 430 mm (900 running metres). This translates to longer production runtimes.



protective enclosure

Special enclosures are available to adapt to many different special environmental demands. Should you, for instance, need to operate your equipment at temperatures above or below system specifications, climate or thermal enclosures are recommended. We also supply special enclosures for environments with high dirt and dust loads.





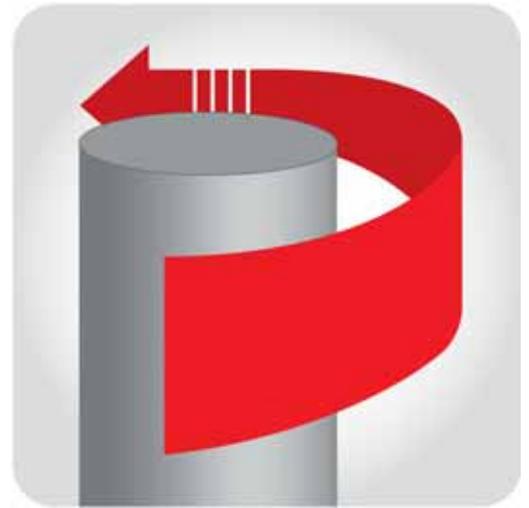
alarm

Depending on system configuration, the alarm systems have large and clearly legible text displays and a stack light alarm, an SMS or e-mail transmission function in the event of malfunctions, acoustic annunciator, service interval displays as well as discreet digital I/O interfaces.

batch and special labelling systems

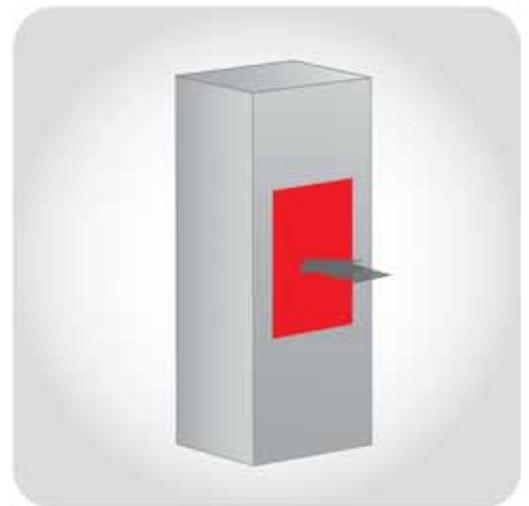
cylindrical products

The 3-roll system of the all-round labelling system RUE 1600 has a very high application accuracy, with even two labels facing each other dispensable in a single operation. The winding system for circumferential labelling guarantees high production output, at 100 products per minute.



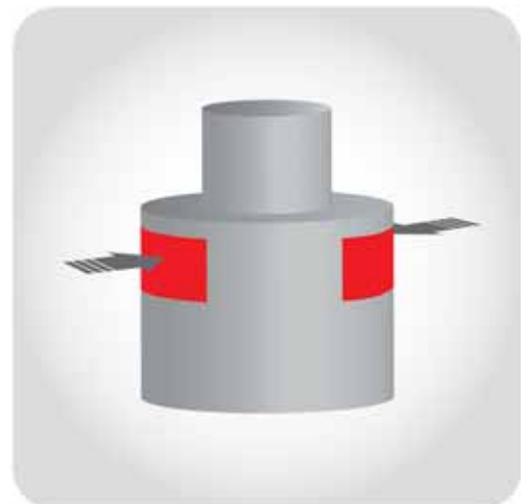
side labelling

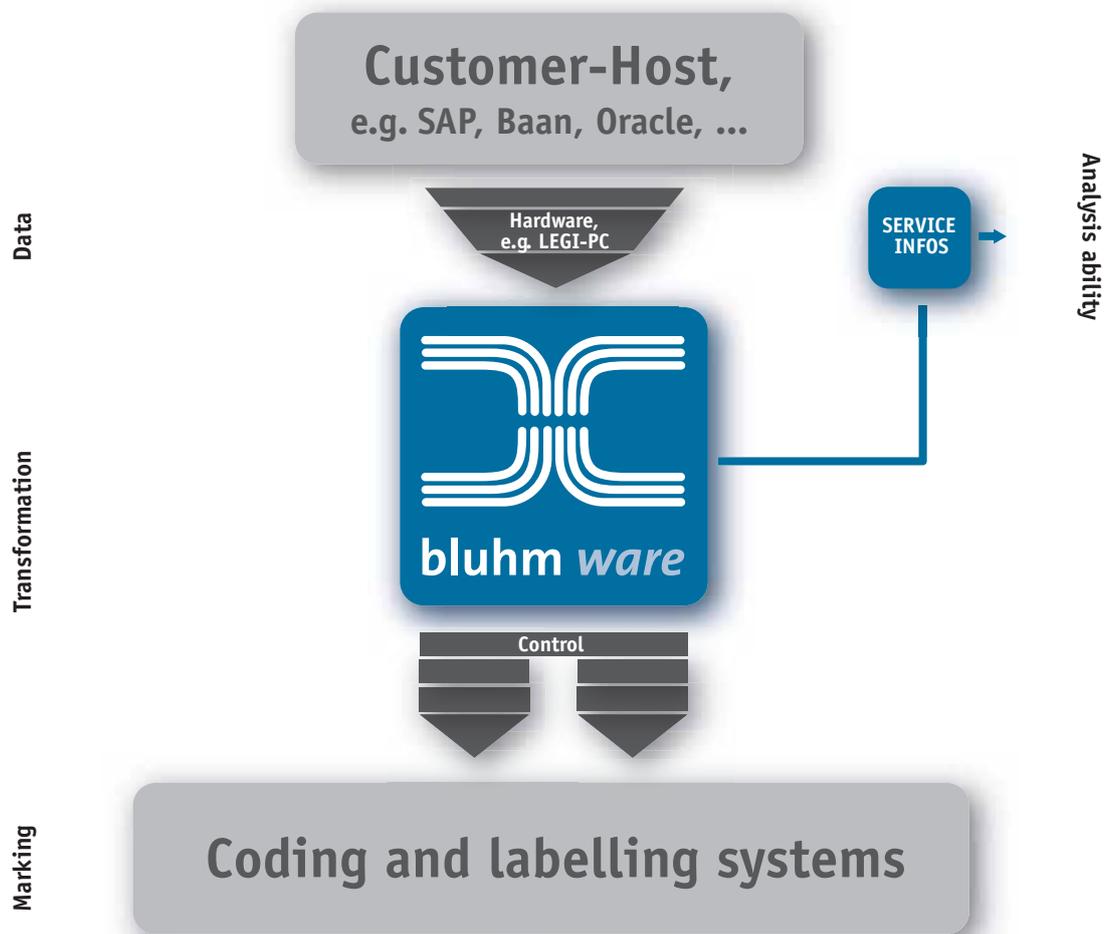
The SE 1600 side labelling system marks up to 250 products per minute. Items to be marked are first centred by aligning the edges, then aligned and labelled.



side and all-round labelling systems

These systems enable automatic labelling of the most diverse of products in large batches. Diverse sales and decorative labels, or primary labels, can be created in any label format in sizes from 7 x 8 mm to 300 x 1 000 mm. Accurate labelling is achieved on round, square or conical products. The consistent modular design enables combinations of label dispensers and/or printing dispenser systems, catering for virtually any labelling and dispensing problem. Another advantage is the possibility of using all industry-proven thermal and thermal transfer printing modules as well as hot stamping printing engines and inkjet or laser coders. The systems offer all conventional interfaces for secure data interfacing.





software and hardware accessories

From simple to demanding – we will supply you with the right software and accessories for any coding and labelling application. The modular construction also allows for adaptation to the most varied of customer requirements. This also includes simple integration into the EDP environment.



hardware

- Industrial PCs and panel PCs with PreVision control to constantly monitor all the relevant system parameters. Unscheduled downtimes are avoided in future – systematic reliability!
- fully-fledged computers, matched to the customer environment and with the required protection class, such as Legibox II
- data input via keyboard only, with direct connection to the printing dispenser systems
- input aids by way of barcode scanners/datamatrix readers or RFID readers – up to camera systems
- data transmission via radio or memory cards
- keys for simple selection



software variants for flow control

- Legitronic: Windows based software for design and printing of labels, or for generating text and logos for industry, logistics and trade. Easy interfacing to internal company networks for data transfer and no problem with reading data from other equipment.
- DDS print dispensing software for complete process supervision including all the necessary communication channels to the customer environment. Exchange of signals and data. Documentation of events and actions, including report-back to the customer EDP to ensure transparency of all the process data. Interfacing to ERP systems, networks or PLC is standard.

In all their control concepts, Weber rates simple operation, extensive system controls and simple integration with the customer environment, highly. Changes can easily be made by the customers themselves.





Austria

Bluhm Systeme GmbH
Phone: +43(0)7673/4972
Fax: +43(0)7673/4974
info-austria@bluhmsysteme.at
www.bluhmsysteme.at

BLUHM
systeme

Germany

Bluhm Systeme GmbH
Phone: +49(0)2224/7708-0
Fax: +49(0)2224/7708-20
info@bluhmsysteme.com
www.bluhmsysteme.com

BLUHM
systeme

Belgium

Weber Marking Systems SA
Phone: +32(0)16 38 79 50
Fax: +32(0)16 38 79 59
info@webermarking.be
www.webermarking.be

Weber[®]
LABELING & CODING SOLUTIONS

Germany

Weber Marking Systems GmbH
Phone: +49(0)2224/7708-0
Fax: +49(0)2224/7708-20
info@webermarking.de
www.webermarking.de

Weber[®]
LABELING & CODING SOLUTIONS

Bulgaria

Weber Etiketten Bulgaria GmbH
Phone: +35(0)952 600 625
Fax: +35(0)952 600 624
stojanov@sis45.com
www.sis45.com

Weber[®]
LABELING & CODING SOLUTIONS

Netherlands

Weber Marking Systems BV
Phone: +36(0)534 5254
Fax: +36(0)534 5659
info@webermarking.nl
www.webermarking.nl

Weber[®]
LABELING & CODING SOLUTIONS

Danmark

Bluhm Danmark A/S
Phone: +45(0)75.87.26.00
Fax: +45(0)75.87.26.10
salesdk@bluhmsysteme.com
www.bluhmsysteme.dk

BLUHM
systeme

Switzerland

Bluhm Systeme GmbH
Phone: +41(0)41 799 7090
Fax: +41(0)41 799 7099
info@bluhmsysteme.ch
www.bluhmsysteme.ch

BLUHM
systeme

France

K-Roll SA
Phone: +33(0)5.62.47.27.37
Fax: +33(0)5.62.47.16.26
k-roll@k-roll.fr
www.k-roll.fr

K-Roll

United Kingdom

Weber Marking Systems Ltd.
Phone: +44(0)1875 61 1111
Fax: +44(0)1875 61 3310
sales@weber.co.uk
www.weber.co.uk

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