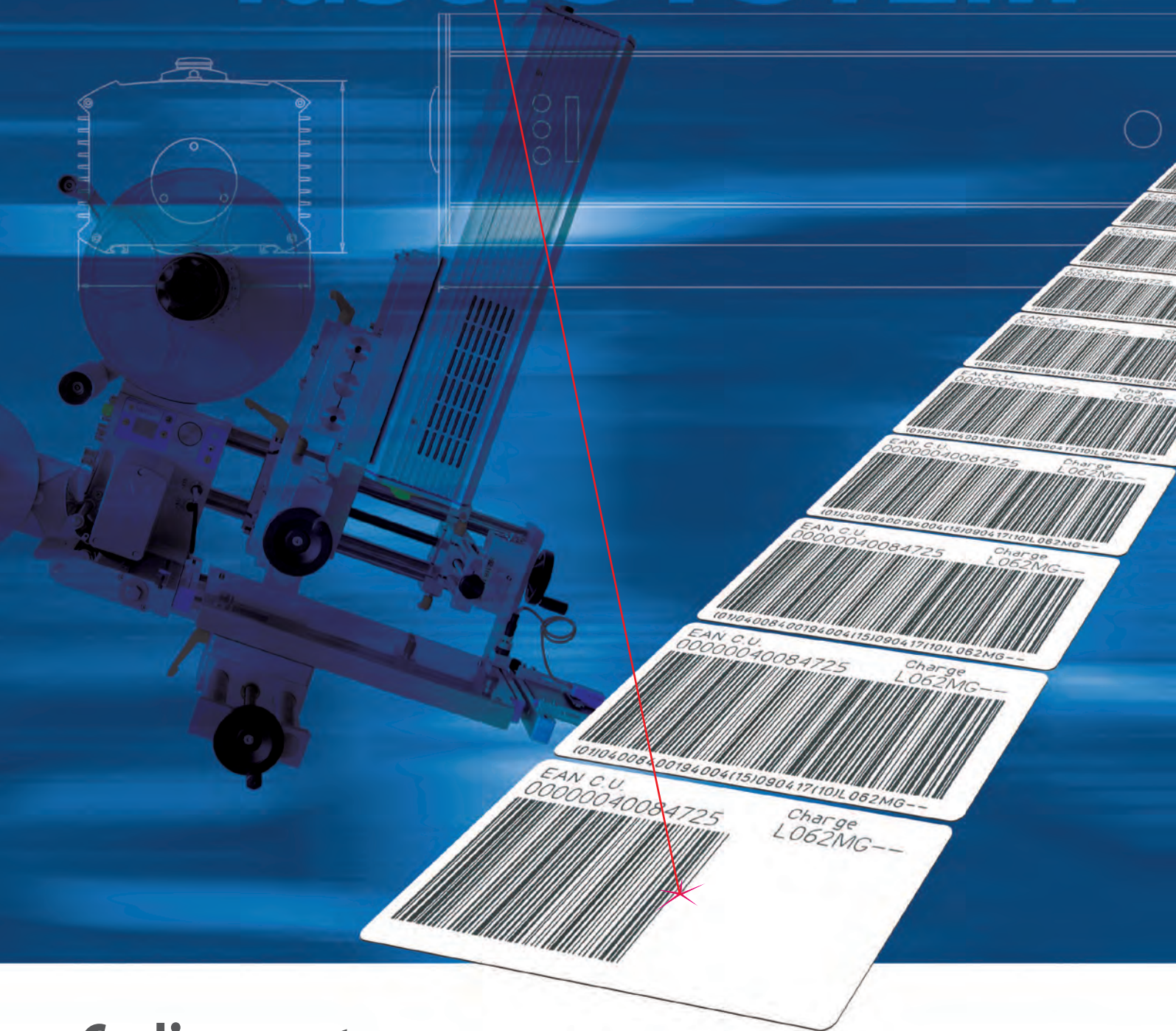


laserSYSTEM



Coding system for laser-activatable labels

A co-operation between KBA-Metronic and HERMA GmbH



Magic? Intelligence!

economical, fast as lightning, pin sharp

Three components – one brilliant system

The laser labeler combines the HERMA 400 labeler (servo drive) with the KBA-Metronic K-1000 CO₂ laser and opens up great potential for a wide range of coding applications. Ideally suited for difficult and dusty production conditions. Additionally, printing can be performed directly at the dispensing edge, so allowing the controlled assignment of labels to the product. The system can be configured to suit customers' specific production requirements. The system offers all advantages of the compact and modular labeler HERMA 400 and the reliable and powerful CO₂ laser systems K-1000.

Technical data for the laser labelling system

Operation:	color change from white to black by impact of a CO ₂ laser beam (non-ablative, i.e. no material is removed)
Label material:	laser coding labels from Herma
Labeler:	HERMA 400 with servomotor
CO ₂ laser system:	K-1000: 10 W / 30 W / 60 W, network capability: Ethernet interface
Connection values:	100 V - 240 V K-1010 (10 Watt): 50 / 60 Hz; 1 phase of + N 600 W K-1030 (30 Watt): 50 / 60 Hz; 1 phase of + N 1000 W K-1060 (60 Watt): 50 / 60 Hz; 1 phase of + N 1600 W
Servo drive:	automatic synchronization of labelling and product speed
Cooling system:	integrated air cooling
Work environment:	non-condensing, no vibration

Subject to technical modifications



Reliable marking with the CO₂ laser system from KBA-Metronic



The right system for every application



Graphics, texts and so on are communicated directly to the laser system, e.g. via touch panel

CO₂ laser systems of the K-1000 Series are impressive.

- Reliable high-speed marking
- Consistently high marking quality
- Space-saving compact construction
- Beam exit optionally at the front or bottom
- Easy to operate
- Full graphic software allows complex graphics
- Can be linked to networks by an Ethernet interface

Ideal for marking your products with text, logos and graphics.

- Smudge and scratch-resistant marking
- Print area up to 250 x 250 mm
- The controls of the 10 W and 30 W lasers are integrated in the housing; the 60 W version has separate 19" controller
- No additional consumables are needed
- No more than a little modification at the most is required when changing labels or formats
- Simple text creation via pocket terminal, touchscreen terminal or Marca PC software

Intelligent software:

- Marca PC software with Windows interface (Windows 2000/XP, Windows 7), WYSIWYG display
- Freely-selectable font size
- Various date and time formats
- Barcodes and 2D codes
- Database printing
- Logos or graphics can be loaded in IMG or DXF format, MFF font, 7 x 5 or 5 x 5 dot fonts, TrueType fonts and Unicode fonts
- Intermittent and continuous labelling
- Many other software features

Component 1: The K-1000 KBA-Metronic laser system

The K-1000 series of CO₂ laser systems is ideal for marking products with pinpoint-sharp texts, logos and graphics, and with minimal operating costs.

Flexible and individual marking of labels is possible at any time during the production process – inside or outside the production line.

The laser labelling system can be equipped with camera systems to ensure complete retraceability.

The benefits of the laser system:

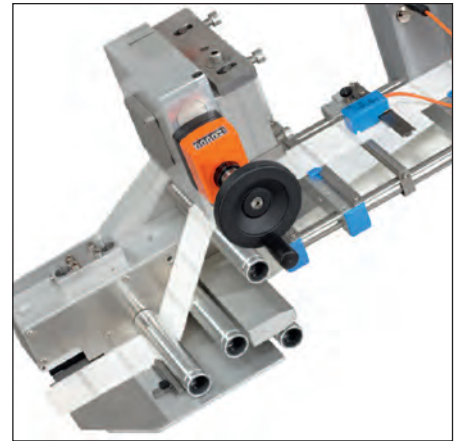
- It marks quickly and accurately
- It is reliable and needs little maintenance
- It works on a non-contact basis
- It demonstrably reduces unnecessary downtimes
- It requires no additional consumables
- It is perfect for plain text, graphics and/or codes
- It provides high contrast and exact contour sharpness
- It can be easily integrated into HERMA labelers
- It is simple to operate
- It makes it possible to assign flexible data to particular products



Rolls of labels can easily be wound on and off



Everything under control: The HERMA 400's comprehensible control display permits especially comfortable and simple parameterization when you individually configure your labeler



Intelligence down to the last detail: Flexible HERMA transfer systems can be adapted to meet every practical requirement

Perfect roll behaviour.

- The HERMA 400's special unwinding device keeps the labelling ribbon evenly stretched, so avoiding any tolerance problems at the peeling edge.
- The winding and unwinding coils are largely identical and offer the same reliability.
- The insertion and clamping processes are particularly user-friendly

An economical coding system that adapts to your products.

- Automatic synchronization of labeller and product speed
- Special unwinding device for uniform tension of the labelling ribbon
- No modification is needed when changing labels or formats

Perfectly suitable for marking product packaging and outer cartons.

The system for laser-activatable labels is ideal for:

- Packaging and shipping labels
- Marking batch and lot designations
- Optimizing internal logistics

Component 2: The HERMA 400 labeler

Thanks to its sophisticated modular system, the HERMA 400 unique compact labeller boasts an unmatched versatility.

The clou: The basic drive unit with its servo motor is always the same – regardless of the configuration. The benefit of having only one unit means that: There is only one development and only one spare part.

The perfect solution for every job.
Compact, modular, and fully automatic.

The advantages of the labeller:

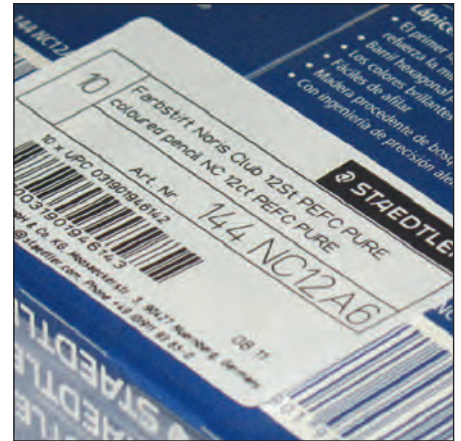
- It is reliable and needs little maintenance
- It can be easily integrated into every production line – specifically tailored to meet your requirements
- It is simple to operate
- It is easily extendable
- It offers a large selection of accessory modules: tripods, label scanner units, etc.
- It is available as a left or right-handed model, as well as for vertical, horizontal or overhanging operation



The cost-effective alternative: Laser-activatable labels



Peeling edge with pressure roller: For labelling "on the fly", with a spring-loaded roller to roll the labels onto the product



The ideal solution for applications in a wide range of industries

Laser-activatable labels, developed and produced by HERMA.

- As paper labels or laminated with OPP foil
- Offering high resistance
- Suitable for use in humid areas
- Lasers of the K-1000 series from KBA-Metronic give the best results
- In this combination, high marking speeds are obtained, even "on the fly"
- Good ageing resistance
- ISEGA-tested and certified (suitable for the packaging of foodstuffs)

Areas of application:

- Package labelling
- Shipping labels
- Marking batch and lot designations
- Marking of foodstuff packaging
- Barcode labelling of products
- Publishing industry applications
- Applications as product presentation labels must be examined in isolated cases

Further savings that can be achieved in addition to consumables:

- Reduced changeover times and costs with thermal transfer ribbons and strips
- Fewer downtimes
- Higher conveyor speeds and thus higher output volumes
- No costs arising from waste TT ribbons
- Protection of the environment

Component 3: The laser-activatable labels from HERMA

Advantages of the labels:

- Non-contact marking
- Color change from white to black
- Easy to handle
- High process and system reliability
- Fast, quiet and precise marking
- High contrast and high contour sharpness
- No additional consumables needed

- Economic
- No pollution
- Low marking and maintenance costs
- High flexibility when choosing the width and length of the markings
- They are perfectly matched to the HERMA labellers and laser systems from KBA-Metronic



Founded in 1972, KBA-Metronic GmbH is a medium-sized company with approximately 300 employees and has been adopted a subsidiary of Koenig & Bauer AG in 2004. KBA-Metronic specializes in the development, design, production and marketing of printing, coding and marking technology.

As a total coding solutions provider, KBA-Metronic is at the fore of the very latest market developments and totally in touch with customer needs. KBA-Metronic GmbH has a consistent policy of product optimization which will secure its long-term status as a leading coding technology provider.

The KBA-Metronic marking devices are used in industries worldwide. Applications for all KBA-Metronic coding technologies including laser, ink jet, hot stamp and thermal transfer can be found in market sectors such as automobile, food processing and pharmaceuticals – all are supplied from our facilities in Veitshöchheim.

Laser technology from KBA-Metronic GmbH

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