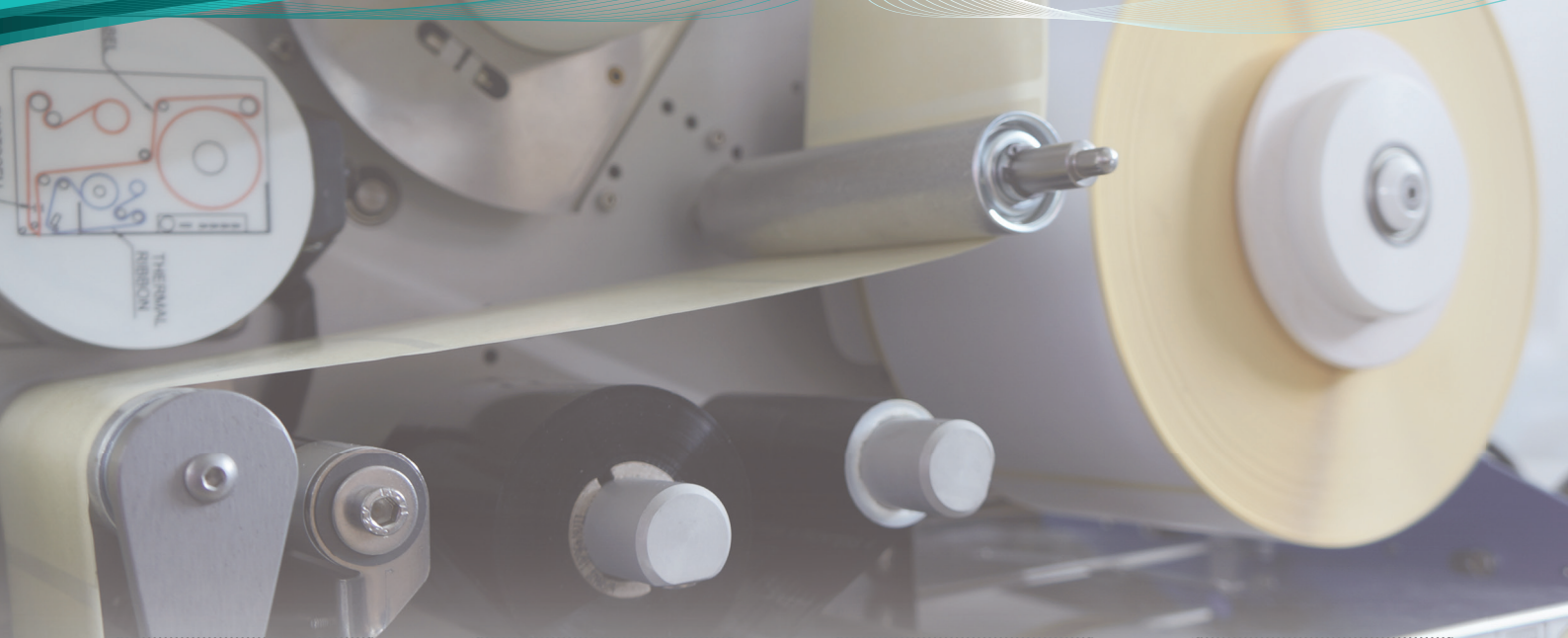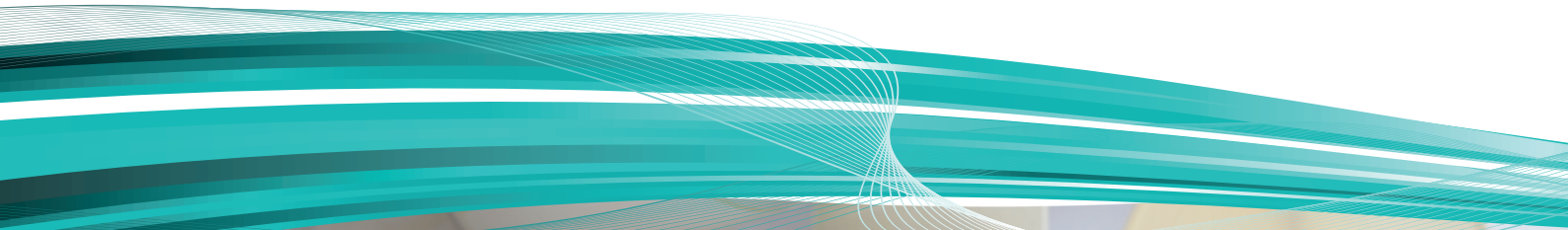# GRUBER

ELEKTRONISCHE BESCHRIFTUNGSSYSTEME

The professionals for label, encoding and print solutions

COMPANY

Information about us...

Gruber GmbH - one of the leading supplier and manufacturer for industrial electronic printing and labelling systems since 1987.

For all tasks of industrial marking and labelling, we can deliver a standard but also a custom made solution.

Through our own production, we are able to deliver complete printing machines, where we are able to integrate different types of printer. We have our own construction department with a 3D-CAD software system.

A main production of our mechanical engineering, are feeding systems for cardboard boxes, transporting systems, round tables and many different handling systems, which are delivered worldwide together with our printing and labelling systems to our satisfied customers.

Our systems are mounted directly on automatic production or packaging lines in order to code and label products in real time. As such, they possess all the requisites for autonomous operation integrated into the line, without requiring the presence of the operator.

All phases of the operation are monitored as to ensure the quality of the final result (label presence, overprinting of the product and legibility of barcode).

In order to choose a functioning and efficient printing and marking system, we can deliver many types of printer and accessories and system extensions.

The firmware in the printer and labeller has also been developed with a large number of parameters in order to be able to tailor the operation to the most widely varying requests of the customer.

What can we do for you ?

Frank Gruber

PRINTESS

Label Printing

The latest generation of one of the best print apply system, the fruit of 30 years of experience, design and development. The solution for Print-Apply which is compact, economical, reliable and easy to implement. Owing to the integrated printer and applicator system it ensures maximum efficiency and operating rapidity. This is a true „labelling robot": A completely automated operating machine that has been produced for an industrial environment.
A complete and adaptable range with exclusive features:
• Rapidity, precision, ability to run for long periods;
• Automatic application of adhesive labels to fixed or moving objects;

• Ability to encode each label in real time with variable data: expiry date, linear and 2D barcode, logos, etc..
• Absolute system modularity, with a wide choice of automatic applicators;
• Possibility of adopting applicators and modules that have been designed and developed by Eidos to meet specific needs;
• Suiting all lines, owing to the emulation of the SATO and ZEBRA standards.
The Printess Electronic Unit uses a touchscreen colour graphic display to simplify and make intuitive the operations of calling up texts, amending data and checking printing.

Printer Models:

PRINTESS 4: Printhead 107mm (4"). Labelroll diameter up to 250mm, and Ribbon length up to 500m.

PRINTESS 5: Printhead 107mm (4"). „High Performance Version". Labelroll diameter up to 350mm, and Ribbon length up to 1.000m.

PRINTESS 6: Printhead 160mm (6"). Labelroll diameter up to 250mm, and Ribbon length up to 500m.

PRINTESS 8: Printhead 210mm (8"). Labelroll diameter up to 250mm, and Ribbon length up to 500m.

Applicators:

• **LINEAR:** Linear Applicator
• **ROTOR:** Rotative Applicator
• **BLOW:** Linear Tamp Blow Applicator
• **MICRO:** Applicator for small Labels for high precision
• **RFID:** RFID Applicator Unit
• **3-SIDE:** Applicator for 3 pallet sides
• **STRAP:** Applicator for straps or wires
• **WRAP:** Applicator for cylindrical objects
• **Corner:** Apply labels around a corner
• **INSIDE:** Apply small labels inside pipes or spools

Printer models

Printess 4

Printess 5

Printess 6

Printess 8

Solutions

CODITHERM

Direct Printing

CODITERM is an electronic (Digital) thermal transfer printer for automatic and direct marking of objects made of stiff material or with uneven, porous surfaces.
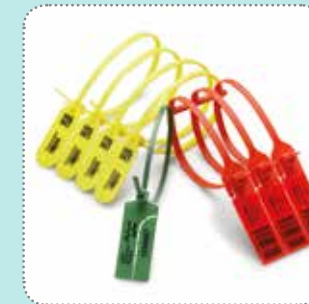
Today, in all these cases, it has not been possible to print directly on the product with electronic thermal transfer print heads.

Exploiting an exclusive patent, based on the use of a double ribbon, a positive image can be created electronically on the thermal transfer ribbon in an initial print phase and then transferred „hot" (using pads or heated rollers) to the object to be marked.

CODITHERM permits extremely versatile, high quality marking of production batches with texts, bar-codes and variable logos. Marking, directly on the production line, means that the product can be personalized during packaging, thus avoiding the need for a large stock of preprinted parts.

The interactive colour graphic display simplifies the operation of locally changing data end enables the on-line control of what the machine is printing.

Typical applications for CODITHERM:

• Coated or varnished cardboard boxes
• Plastic housing and tags
• Round and Flat brush handles.
• Leather and wood surfaces
• Polypropylene containers
• Medical bags
• Wires and cables
• Pained metall surfaces

Features:

Different printer models:
Roller, Round, Pad, Wire, Brush.

Print Head Definition: 12 dot/mm (300 dpi) and 24 dots/mm (600 dpi).
Maximum printing area up to: 95x330mm

Ribbons in various quality and colour for different requirements available, for example metallic ribbons in gold and silver.

Solutions

Solutions

SWING

Direct Printing

SWING is an electronic thermal transfer printer able to print directly and automatically on the plastic or paper film used on packaging machines or individual packs. There are two different systems.

The SWING .ie with "mobile head", mounted on "Intermittent" machines and prints while the machine is stopped. The SWING .ce with "fixed head", mounted on „Continuous" operating machines and prints on a moving film.

It is used to encode with text, barcodes and logos that can be easily changed, the various production lots with extreme flexibility and high print quality and speed. The printing is made directly on the production line, enabling the product to be personalized as it is packaged, thus avoiding having to keep a large stock of pre-printed rolls.

The Electronic Unit has a 5.7" graphic colour display with „touch screen", to allow viewing of the text which is printing and makes setting the parameters easier and more intuitive.

The printer is available in the following models:

- **SWING 2ie**: Intermittent System. Printing during a stop of the packing machine. Print area 53x90mm.

- **SWING 4ie/4iel:** Intermittent System. Printing during a stop of the packing machine. Print area 107×90 and 107x200mm.

- **SWING 2ce:** Continuous System. Printing during movement of the packing machine. Print Area max. 53x300mm.

- **SWING X2/X4/X5:** Intermittent System. Printing during a stop of the packing machine. Printhead width 53mm, 107mm and 128mm. Print area max. 400 or 600mm.
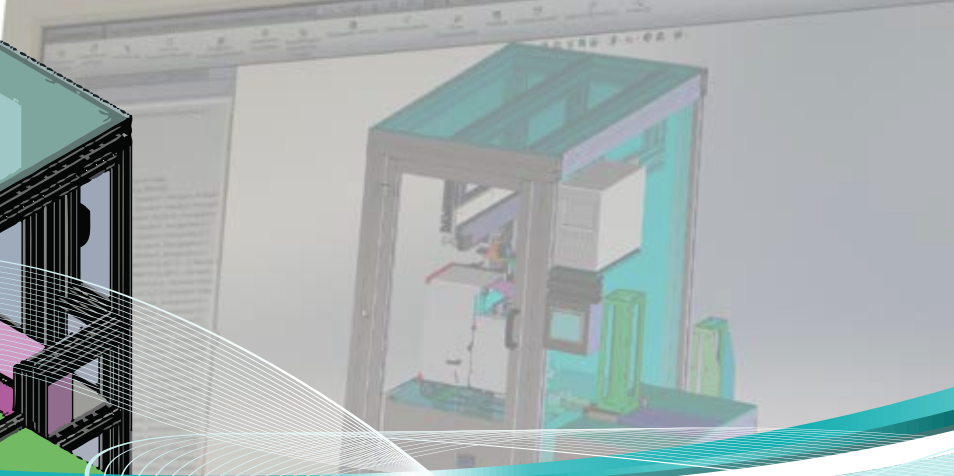
Printer models

SWING 2ie

SWING X2

SWING 2ce

Solutions

Labelling Systems

LS10: The Labeling head is a compact-sized and low-cost applicator for self-adhesive labels, which can be easily integrated into already existing packaging lines. Based on a robust, reliable mechanical structure; it can be fitted into particularly restricted areas. It is available in two versions, for label widths up to 100 and 200 mm.

LR10: High performance self-adhesive label applicator designed to be integrated into packaging lines where production speed and reliability are primary needs. Based on an innovative mechanical structure which can match great sturdiness with versatility. It is available in three versions, for label widths up to 100, 200 and 300 mm.

Line: The Inline labeling systems can be configured for the labeling of cylindrical, elliptical or rectangular products; moreover, they can suit specific requirements, such as the application of tamper-proof seals or labelling of singularly shaped products. Suitable for even the harshest of conditions, guarantee great labelling accuracy.

R100B: Semiautomatic label dispenser in industrial design. Free roller in stainless steel. Label detection through adjustable photosensor. Labelwidth up to 120mm. Labelroll diameter up to 230mm

Special Machines

For all tasks of industrial marking and labelling, we are able to deliver standard but also custom made solution.

Through our experienced staff, we are able to design and to deliver in time complet printing- and labelling machines. We integrate different types of printer and labelling heads such as print & apply systems, thermal-transfer direct printing systems for plastic materials and packaging films, industrial ink-jet printer into a perfect automation.

Our technical staff project the controller of our automated systems. We program and do the wiring for our control cabinets.

Our PLC controller for our customized machines are base on Siemens PLC controller.
This gives significant advantages for our customers.

If they will have any questions or problems, they will have only one contact person. This makes an implementation very fast and easy.

Models

LS10

LR10

Line

R100B

Solutions

HQ Ink-Jet Systems

Our V5 and V6 high resolution Ink-Jet Printer are able to print on porous surfaces with an oil based ink and non-porous surfaces with an UV based ink and curing unit.

The print head resolution of our Ink-Jet Printer depend on the printer model. Our V5 system print with a resolution of 180dpi and our V6 system with a resolution of 360dpi. The print height starts from 70mm – 420mm, by using multiple heads on only one printer controller. The Ink-Jet Printer is available as monochrome (one colour) or CMYK (coloured) system.

High performance, robustness, minimal maintenance and multihead capacity are the main features of the best known industrial hi-res digital printer.
Our V5 touchscreen controller is made with stainless steel, robust and resistant, ready to any harsh environment. Controller is totally sealed with no mechanical elements, fanless and diskless.

The Controller can be connected to any remote system through ethernet and serial ports. Wi-fi option is available under request. It comes with an integrated webserver for basic remote queries to printer with no need of additional software. Additionally a Windows driver can be installed on a remote system to print in colour from any Windows based application.
Controller includes a touchscreen label editor. An external front panel USB port with IP65 protection is used to easily manage, backup and restore the layouts and printhead configurations.

Box personalisation and stock reduction. No more preprinted boxes thanks to the just-in-time single pass printing. The V5/V6 is the ideal solution for short production of custom products. Monochrome or Color coding and decoration in only one printer.

Solutions

Solutions

HP Ink-Jet Systems

Our HP Ink-Jet Printer base on the reliable HP TIJ2.5 technology, which provide a constant and excellent print quality on easy usage, and allows a very high print speed. For high volume printing, the customer can connect a Bulk system to reduce the costs per print.

Performance characteristics:
• easy usage and intuitive handling
• maintenance-free operation
• easy integration
• printhead resolution max. 600x600 dpi
• print speed up to 300 m/min on 300 $\times$ 150 dpi

Depending on the printer model, it is possible to use with one controller board up to eight premium print heads with 12,7mm print height each. On an external PC System it will be possible to install multiple controller boards, to increase the print height.

Overview HP Ink-Jet Systems

HSAjet Micron
Micron - A revolution in high resolution printing !
Our Micron printer is a controller that is ideal for integration on various production lines where a low cost solution is required.

HSAjet Minikey
Coding & Marking made simple and fast!
A compact printer with integrated printheads. Ideal for integration in packaging lines.

HSAjet Mini-Touch
Touch Controller ideal for integration on packaging line, webs, inserters, folders, collators.

HSAjet IPC/TIPC
Flexible Printer controller with black anodised aluminium frame and stainless steel casing.

HSAjet Printheads
The HSAJET printers are based upon the reliable HP TIJ2.5 technology which delivers consistent, high-quality, fast printing, exceptional value, and ease of use.
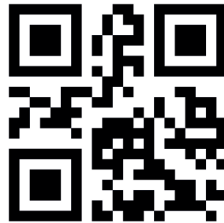
HSA Vision
Integrated optical control with HSA printer software.

HSA Desktop Printer conveyor
Flexible Desktop Printer Conveyor offers precise transport for high resolution prints up to 4", - now with new aluminium-front design.

Etikettendrucksysteme

Etikettenspender und Etikettieranlagen

Direktbeschriftungssysteme für Kartonagen, Kunststoffe, Folien

Ink-Jet Beschriftungssysteme

Sondermaschinen

Strichcodelesesysteme

Etiketten, Thermotransferfolien, Tinten

Etikettengestaltungssoftware