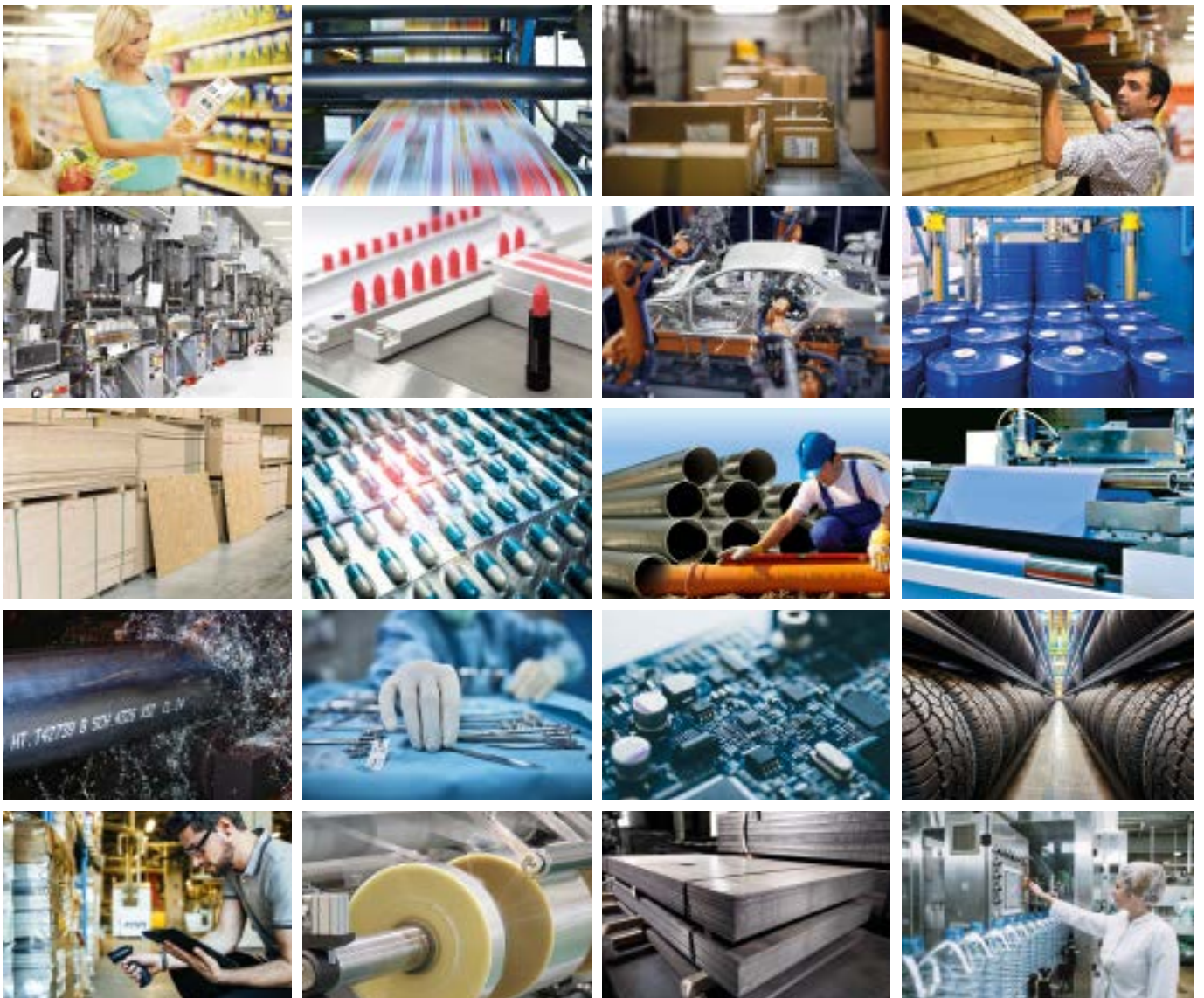


REA

PRINT | APPLY | VERIFY

The World of Coding and Marking Product Overview



REA – PRINT | APPLY | VERIFY

Industrial Coding, Marking and Verification Systems

In any industrial application where products are labeled or marked or where codes are verified - REA systems are used in thousands of applications worldwide to ensure reliable identification and traceability. From the harsh industrial environment of steel processing plants to the stringent requirements of the packaging, food or pharmaceutical industry - REA is the first choice a wide variety of industries. This includes networked production in line with Industry 4.0.

Since our foundation in 1982, we have been continuously expanding our extensive portfolio for industrial coding and marking with innovative solutions for coding and marking a wide variety of products and surfaces as well as code verification devices. Our development, manufacturing and improvement efforts are all based in Germany. REA Elektronik GmbH is certified according to DIN EN ISO 9001:2015.

Our three product lines offer systems for marking, labeling and code verification from one single source:

- REA JET – systems for contact-free marking with large character inkjet printers (DOD), high-resolution inkjet printers (HP and piezo printing technology), small character inkjet printers (CIJ), laser and spray marking technology.
- REA LABEL – Labeling systems for a broad range of requirements and applications.
- REA VERIFIER – optical verification devices to ensure the quality and readability of 1D barcodes and 2D data matrix codes.

We see ourselves as a system supplier. We develop and deliver solutions from one source - by selecting and combining components from all three product lines to meet the specific requirements.

We offer a wide range of standard coding and marking systems. However, we also excel at implementing custom solutions. Our highly trained and committed employees from a wide variety of specialist areas combine the very latest technologies to create customized solutions for your needs and expectations.

From identifying the right coding and marking system for your needs to selecting the right ink (more than 500 special inks are available) and even professional assembly with customer-specific solutions (mounting brackets, positioning units, robotics etc.) as well as care and maintenance of the systems

High-quality components and the training of your employees guarantee optimum coding and marking results and a high degree of reliability of the systems with minimum maintenance. We respond to customer requests with speed and flexibility and provide competent and unbureaucratic assistance. Because it is not only the quality of our products that makes us successful, but above all your satisfaction.

“Coding and Marking Solutions for Industry - Made in Germany”



The company headquarters of REA Elektronik GmbH, 30 kilometers south of Frankfurt am Main, Germany

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REA JET TITAN Platform



Consumables

20

The Benchmark in its Class: Large Character Inkjet Printers (DOD 2.0)



The large character inkjet printing system REA JET DOD 2.0 prints texts, data and logos with a print height of up to 140 mm per print head. The resolution meets the coding and marking requirements for a vast range of industrial applications.

The robust inkjet printer is easy to handle and highly flexible due to the modular design of the system components. The print heads feature 7, 16 or 32 nozzles and can be combined into one printing system - up to 16 print heads per device.

Areas of application:

- Absorbent and non-absorbent surfaces such as paper, cardboard, metal, glass, ceramic, stone, wood, plastic, rubber, foils, carpet, textiles, fleece, organic surfaces etc.
- Under extreme environmental conditions such as dust, moisture, vibration and temperature fluctuations
- REA Micro-Slanting technology: fine adjustment of height and width ratio of the text to optimize the print image
- Modern interface connection to higher-level software systems for improving efficiency and reliability of production

Advantages:

- Control via REA JET TITAN Platform
- Potential speeds of up to 600 m/min
- Print heads with cascading capability for printing large surfaces: up to 512 nozzles can be addressed
- REA JET print head technology: robust and reliable
- Economical use of consumables
- Suitable for pigmented and non-pigmented inks
- Protection class IP65
- REA Plug & Print technology: high level of system availability and process reliability thanks to fast changeover system for modular components
- REA Purge & Clean technology: fast cleaning of the print head at the touch of a button
- REA DSC technology: dot size control, freely adjustable drop size for economical use of consumables

Print head variants:

- 7 nozzles: single-line marking with a height of 5 to 27 mm
- 16 nozzles: single- to two-line markings with a height of 5 to 67 mm
- 32 nozzles: single- to five-line markings with a height of 5 to 140 mm



Print Heads
7, 16 and 32 nozzles



Print Head
Controller Units



REA JET Universal Controller Touch



REA JET Universal Controller



REA JET
Ink Supply Unit
TV-PP 4.5 I (AFS)
with automatic
flushing function



5 l Ink Supply Unit





Coding and marking of pipes (steel, plastic etc.)



Marking of aluminum plates



Marking of paper bags



Marking of tread on raw rubber



Coding and marking of shrink hoods



Marking of railroad sleepers



Large marking of logos on stacked boards



Coding and marking of sheeting materials

Maintenance-Free Product Marking: High Resolution Inkjet Printers (HR 2.0)



With the high-resolution REA JET HR printing product family, REA has had the world's most powerful HP-based printing system on the market for years. The decisive features: It is completely service- and maintenance-free, and that at high resolution.

For smooth and absorbent materials and the printing of machine-readable codes, this technology is more and more the first choice when variable shelf life, batch information and codes need to be printed reliably at sometimes breakneck speeds.

The new HR generation is significantly more compact and therefore more flexible and even easier to integrate. The sturdy aluminium housing, intuitive operation and

new print head design make the coding and marking system suitable for unrestricted industrial use.

The system has been particularly successful in the pharmaceutical, food, wood, paper and packaging industries for markings with a print height of up to 12.7 mm per print head. Multiple print heads can be cascaded for larger print heights.

With its integrated Ethernet interface and full Unicode support, the HR is the first choice for serialization tasks and track & trace projects. Up to 80 serialized prints per second and 762 m/min make it the fastest printing system in its class.

Areas of applications:

- Counterfeit protection and traceability
- Ideally suited for serialization as well as track & trace applications
- For smooth, absorbent and non-absorbent surfaces
- Alphanumeric texts, barcodes, 2D codes (such as Data Matrix codes) and logos
- Variable data such as date, time, counter, shift code, database contents

Advantages:

- Based on thermal inkjet printing technology, proven in a million uses
- Extremely high resolution at high product speed
- Maximum print triggering of up to 1500 dpi adjustable in 26 levels
- Print heights up to 50.8 mm
- Easy handling via touch or rotary/push operation on the controller

- Simple, intuitive operation thanks to the cross-technology REA JET TITAN platform
- Quick cartridge change
- Maintenance- and service-free – you get a new print unit each time the cartridge is changed
- Structurally compact, flexible and easy-to-integrate print head
- Maximum operating reliability and availability
- Optional bulk supply for interruption-free printing for large throughput volumes
- High-quality verification of the code quality in a process with REA VERIFIER verification systems
- Control via REA JET TITAN Platform



Lever mechanism for a quick and even easier cartridge change



REA JET Universal Controller Touch



REA JET Universal Controller

Compacte HR 2.0 Print Heads



OEM Variante:

HR pro OEM Controller for complete integration in switching cabinets and machines



HR print heads



Compatibility: transfer of Software NiceLabel print layouts using REA JET's own printer drivers.





UDI marking of packaging material



Two-colored marking of foil



Coding and marking of laminate



Best before label marking



Coding and marking of folding boxes with Data Matrix codes



Marking cardboard boxes with barcodes



Direct marking with the EU plant passport



Multi-line marking of FFP2 respirator mask

Faster, higher contrast- more reliable: High Resolution Inkjet Printers (UP Piezo)



The multi-talented REA JET UP (Universal Print) is a rugged high resolution inkjet printer based on piezo technology.

It marks without contact not only on absorbent surfaces, even on smooth substrates such as painted and lacquered cardboard. With a print height of up to 108.37 mm and a resolution of up to 1500 dpi, it prints with high contrast and reliability - even small characters are very legible.

Areas of applications:

- Porous and absorbent surfaces: paper, cardboard boxes, wood, textiles, fleeces, building material etc.
- Alphanumeric texts, machine-readable 1D and 2D codes, and logos
- Variable data such as date, time, counter, shift code, database contents, etc.
- Serialization and track & trace applications
- Qualitative code check in one process with verification systems from REA VERIFIER (see page 18)
- Flexible alternative to labels and preprinted cardboard boxes

Advantages:

- Industry-independent marking of absorbent, smooth, painted surfaces
- Large print heights of up to 108.37 mm for freeform print layouts
- Up to three times higher speed compared to other systems
- High-contrast print results for very good first code reading rates
- High flexibility thanks to cascading of several print heads
- Low printing costs and reduction in maintenance work
- Perfect print quality even under rough operating conditions and at high speeds

A variety of inks are available for marking: From oil and light solvent-based inks to UV-curable ones for surfaces where no other would dry.

Thanks to the new generation of print heads and circulating ink that prevents nozzle failure, the REA JET UP reliably delivers flawless print images even under harsh ambient conditions - at up to three times the speed of conventional technologies.



REA JET Universal Controller

REA JET UP with Touch Controller

- Innovative REA inks with high drying speed, UV-based, oil-based, light solvent-based, etc.
- Next generation: Newly developed recirculating ink supply unit with shatterproof glass tank and an integrated RFID reader that ensures the correct ink is used
- No nozzle failure due to ink recirculation
- Cost savings thanks to direct printing compared to label storage, purchase, removal
- Easy handling via touch or turn/push operation on the controller
- Control via REA JET TITAN Platform





Versatile and Multiple: High Resolution Inkjet Printers (GK 2.0 Piezo)

The new generation of print heads allows alphanumeric texts, 1D/2D codes and graphics such as company logos or product images to be freely combined. Direct printing on packaging and product surfaces with a horizontal resolution of up to 1200 dpi is a cost-effective and flexible alternative to labels or pre-printed cardboards.

High resolution Piezo Inkjet Printers are ideal for marking cardboard boxes and enable texts, barcodes and logos to be changed quickly and conveniently. Depending on what the user wants, a print height of up to 100 mm is possible per print head.

Areas of application:

- Porous and absorbent surfaces: paper, cardboard boxes, wood, textiles, fleeces, building material etc.
- Flexible alternative to labels and preprinted cardboard boxes
- Serialization and track & trace applications
- Qualitative code check in one process with verification systems from REA VERIFIER
- Alphanumeric texts, barcodes, Data Matrix codes and logos
- Printing of variable data, e.g. date, counter, time, shift code, database contents

Advantages:

- Low consumable costs
- Solvent-free REA JET inks
- Selectable horizontal print resolution up to 1200 dpi
- Very high font and code quality, sharp edges and high contrast
- Easy data transfer and data backup via USB connection
- Available in fixed and hose versions (with 1 m hose) with the following print heights 50 mm or 100 mm
- Creation of label or print layouts with the REA JET Label Creator or also directly on the printer
- Easy operation and maintenance
- Control via REA JET TITAN Platform



Print head GK 384 and ink supply unit



Print head GK 768 and ink supply unit with umbilical connection (100 cm) for flexible print head alignment



REA JET Universal Controller



Kachelbasiertes REA JET Universal Steuergerät Touch



Software
NiceLabel



Small Text, big Impression: Small Character Inkjet Printers (SC 2.0)



No other coding and marking technology has made a greater contribution to consumer safety and information in our everyday lives than continuous inkjet technology (CIJ). This is clear to see from the areas of foodstuffs and product packaging alone. With the

new SC 2.0, one- to eight-line texts, data, barcodes, Data Matrix codes and logos are printed in a contact-free process – in high resolution, at fast speeds and with a very short drying time.

Areas of application:

- Used in virtually all branches of industry for marking smooth surfaces such as foil, laminate, plastic or metal.
- Various data printing, e.g. counter, date, time, best before date, shift code, serialized data for traceability, machine-readable codes (barcodes and 2D matrix codes)

Advantages:

- Compact and robust – designed for industrial use
- Contact-free coding and marking, even at a larger product distance
- Top print quality
- Stainless steel housing, IP54
- Various hose assembly lengths available
- Vertical resolution: 48 pixels for up to eight lines of text
- Various data printing, e.g. counter, date, time, best before date, shift code, serialized data for traceability, machine-readable codes (barcodes and 2D matrix codes)
- Short drying time on smooth surfaces
- High production and marking speeds
- Perfectly suited for integration thanks to the latest interface technology
- Print head suitable for assembly on motion devices
- No manufacturer-specific cartridge system – ensuring maximum flexibility
- Service-friendly design
- Safe and clean filling of ink and solvent, even during operation
- Intuitive user interface, e.g. for commissioning and diagnosis
- Differentiable user levels for the highest process reliability
- Integrated web server enables operation of printing system via PC, tablet or smartphone
- Full Unicode support for companies with international customers
- Integrated VNC server: remote maintenance tool
- Control via REA JET TITAN Platform

REA JET SC 2.0
Small Character Printer



REA JET SC 2.0 Trolley with
integrated print head cleaning station





Marking of aluminium caps



Marking of plastic paint buckets



Expiration date on tube fold



Marking of toothed belts



Coding and marking of plastic profiles



Marking of packaging foils



Marking of plastic pipes



Best before date marking on jam tins

Counterfeit-Proof and Permanent Marking with Light: Laser Systems



Industrial coding and marking with laser systems offers a clear advantage. Since they require no consumables and are virtually maintenance-free, subsequent costs are low. Laser systems are suitable for all kinds of marking on almost any material and for color removal

on all surfaces. One of the main reasons for using laser systems is protection against counterfeiting and traceability of products thanks to the permanence of the marking.

Areas of application of the REA JET CL CO₂ Laser:

- Coding and marking of glass, wood, rubber
- Engraving and color change for plastics (automotive, medical, consumer goods)
- Marking of folding boxes and outer packaging (e.g. in pharmaceutical, cosmetic and foodstuff segments)
- Coated substrates (e.g. anodized aluminum)
- Direct marking of foodstuffs
- Coding and marking following laser color change
- Color mirror engraving, e.g. in combination with the REA JET Spray Mark Technology (see page 14)

Areas of application of the REA JET FL Fiber Laser:

- Engraving and annealing on metals
- High-contrast marking of plastics
- Marking of ceramics
- Coating removal, e.g. for day and night design
- Coding and marking of foils

Advantages:

- Control via REA JET TITAN Platform
- Simple mechanical integration thanks to compact design and versatile connection
- High marking speeds thanks to digital mirror activation
- Integrated pilot laser for simple and precise system setup
- Machine conformity thanks to two-channel interlock with performance level d
- Full TrueType font and Unicode support including UTF-8
- Network capability and interface protocols via Ethernet



CL Laser Unit

CL Laser Unit IP65, dust- and splash-proof

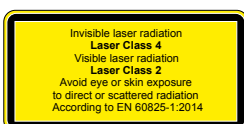
CL Controller

FL Laser Unit

FL Controller

FL Controller

REA laser marking station as flexible manual work station



Compatibility: transfer of Software NiceLabel print layouts using REA JET's own printer drivers.





Marking of coffee capsules



Color change on silicone hoses



Coding and marking of glass with CO₂ laser IP65



Marking of 2D codes on particle filters



Coding and marking of plastic profiles



Coding and marking of tinplate cans through color removal



Wood marking with CO₂ laser



Coding and marking of packaging through color removal

Dots, Lines, Large Marking: Spray Mark Systems



Color markings play a key role in many technical fields. In industrial processes, colors and markings indicate the quality and condition of products, control processes and determine actions to be taken. They range from red error markings to notifications of tested quality in green

or a colored marking for quality, type or installation location. REA Spray Mark Technology offers even more: Spray mark heads arranged in a spray mark block enable large texts to be written with a height of up to 660 mm. Dot by dot!

Areas of application:

- For absorbent and non-absorbent surfaces
- Metallic surfaces up to a temperature of 1000 °C
- Dots and lines with a diameter between 3 and 30 mm
- Large texts with spray mark blocks
- Colored line marking for pipes, profiles and continuous material
- Multi-colored dot, colored ring and line marking for product type differentiation
- Welded seam marking for manufacturing of pipe profiles, pipes and steel profiles
- Machine-readable line markings for edge trimming
- Applying location, position, bending and cutting markings
- Two-dimensional application of contrast colors ("color mirror") for subsequent coding and marking (inkjet, laser)
- Application of primers, separating agents, adhesives etc.

Advantages:

- If desired, we deliver complete marking equipment worldwide with ink supply cabinets, linear axes and robot technology for simple and fast integration into new and existing production systems
- Large selection of processable media including: inks, paints, lacquers, adhesives, resins, hot mark paints and heat-resistant paints
- Integrated flushing device guarantees immediate availability
- Coated nozzles and air control heads to prevent material adhesion
- Fast changeover system for modular components
- REA Plug & Print technology (high level of system availability and process reliability)
- Exactly reproducible spray mark results thanks to precision notch setting and nozzle adjustment
- Control of spray mark blocks via REA JET TITAN platform



Material Pressure Tanks



Universal Controller



Spray Mark Blocks



Round Jet



Wide Jet



One Dot Systems



Four-Color Supply System





Marking of aluminum ingots



High-point marking on tires



Marking of steel springs for type classification



Color marking of wire cables



Marking of steel billets - spray mark block on robot



Ring marking of steel pipes



Control line on PE foil tube



Precise application of oil on plastic parts

Tailor-Made Solutions for Logistics and Automation: Labeling Technology



Like the rest of our product portfolio, our labeling systems are designed for reliable operation in a challenging industrial environment. The REA LABEL systems are efficient and flexible thanks to their modular design and user-friendly operation.

What's more, the use of high-quality material makes them highly robust. They are the first choice for a multitude of fully automatic labeling applications in an extremely broad range of industrial sectors.



REA LABEL ES Label Dispenser



REA LABEL DLS Pass-through labeler



REA LABEL DS Print and Apply System

Top flexibility for label printing

Needs-based label printing for daily labeling tasks by custom-designing your plain and pre-printed labels. We are a certified partner of the following manufacturers:



Standardized and customized software solutions

REA LABEL offers professional software solutions for designing and printing your labels. Standard software from NiceLabel, Codesoft and Sentinel form the basis of these and can be customized to meet your needs.



Pallet labeling in conformity with CCG/GS1, one stop for two sides



REA LABEL



Dual side labeling on long side and back



Pallet labeling (one stop for two sides)



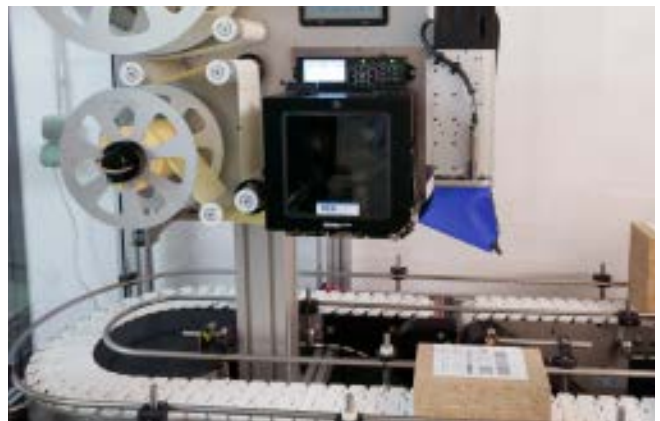
Flexible robot labeling system



Multi-sided canister labeling



Labeling of food packaging



High-speed servo dispatch labeler



Robot labeling of pallets



Robot labeling of pallets

Code Verification Systems from REA VERIFIER Industry 4.0 Quality Assurance



Today, virtually every product we encounter in modern life carries coded information. Manufacturer data, product identifications, prices, article numbers and much more are converted into machine-readable barcodes and 2D codes. These must be read quickly, reliably and without any errors at supermarket checkout counters and in many areas of logistics.

To ensure high first-pass read rates in automated processes, adherence to high code quality and applicable standards is essential. REA VERIFIER offers optical verification systems for checking 1D and 2D codes in order to verify your code quality and eliminate the risk of error and potential further costs.

Areas of application:

- Verification of quality of 1D and 2D codes in accordance with international standards and GS1 specifications
- Verification of codes for accuracy of content
- Automated spot checking
- Incoming and outgoing goods inspection
- ISO/IEC 15415, ISO/IEC 15416, ISO/IEC 29158 (DPM)

Advantages:

- Avoidance of rejects by detecting incorrect coding and marking early on
- Ensures high first-pass read rates
- Low risk of complaints
- Measurement report with evaluation of code criteria (e.g. also for ISO certification)
- Legal certainty through adherence to quality standards (ISO/IEC, GS1 etc.)
- Mobile and stationary devices, can be used with flexibility
- Checking codes of virtually any size
- Large number of equipment variants and accessories for a wide range of applications
- Choice of lighting options (red light, white light, diffused red light, UV light, IR light)
- AuditTrail with Active Directory connection (21 CFR Part 11)
- REA VeriMax including protocol-oriented programming interface with detailed documentation for integration into the machine software



REA VeriMax (for 2D codes and barcodes, for machine installation)



REA VeriMax Mobile



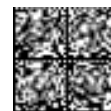
REA VeriCube DPM with diffuse illumination (for UDI code verification)



REA VeriCube (for 2D codes and barcodes, ready for 21 CFR Part 11)



Verifier



REA PC-Scan LD4 (reference device for barcodes)



REA ScanCheck 3 (universal, for barcodes, mobile)

REA Check ER (compact, for barcodes, mobile)

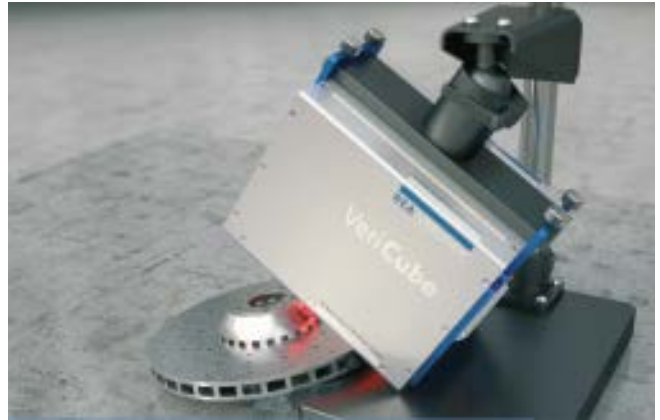


Solution Partner
REA Elektronik
GmbH

REA VERIFIER



Verification of Data Matrix codes on product packaging



Stand solution for code verification on 3D objects



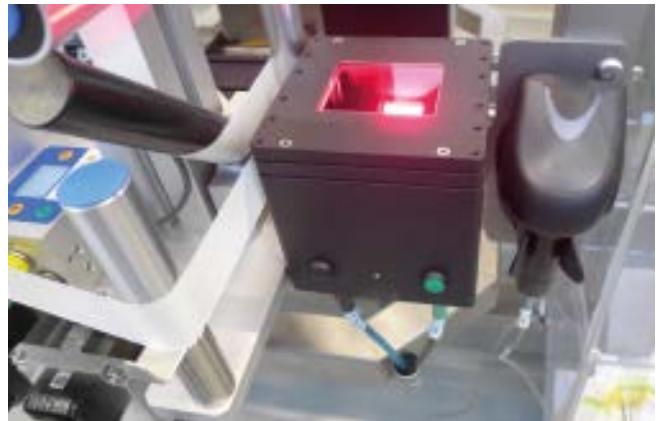
Flexible verification of barcodes on site



Verification of transport labels



Verification of barcodes on metal drums



Code verification device integrated into the packaging machine



Measuring of barcodes on print sample sheets



Verification of metal parts

REA JET TITAN Platform: The Single Operating Concept for all REA JET Technologies



With the REA JET TITAN Platform, we offer an operating concept for all REA JET coding and marking technologies that is truly compatible with any system. The advantages are obvious: As soon as the operating logic for a technology, i.e. for a REA JET product, has been learned and understood, all other technologies can be operated in the same manner without any need for further training. This saves time and money while significantly reducing the risk of incorrect use.

It doesn't matter which input concept you prefer for commands and data. We offer the largest selection of operating options that has ever been offered. Everything that is modern, future-proof and safeguards the value of your investment is already on board and integrated for use all over the world: from the interface architecture to design freedom of all international fonts, characters and languages and even state-of-the-art remote control technology.

Ready for immediate use - anywhere in the world

- Full Unicode support: all world languages can be printed for companies with international customers
- Support for all TrueType Fonts: greatest possible design freedom for your printed texts
- XML-based data structure and communication protocol: global standard for data compatibility
- Integrated VNC server: remote maintenance tool for diagnosis and help if needed
- Standard communication protocol for status monitoring that is suitable for all devices and enables customer-specific signal processing
- Universal graphical user interface in WYSIWYG format: accurate display of print contents
- Integrated web server enables operation of printing system via PC, tablet or smartphone

Operation without limitations - now, everything is easier



Operation with gloves

Central push-turn jog-dial knob for operation with gloves directly on the production line



PC operation

Remote control using a PC workstation or production control station via network



Touch operation

Touch-sensitive screen for operation directly on the production line



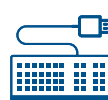
Remote maintenance

Option for remote maintenance and operation via VNC server



WLAN browser operation

Browser operation using mobile devices (PC, tablet or smartphone) via WLAN / WebGUI



Keyboard input

For recurrent, large text entries on the production line, international USB keyboards can be used

A Comprehensive Range: Inks, Paints and Consumables

REA JET develops and markets inks, paints, primers and cleaning agents for virtually every coding, marking and spray mark application worldwide. Chemical compatibility and interaction with all components of the REA JET product families are given top priority when releasing consumables for use in REA JET coding and marking systems. This ensures fault-free operation of REA JET industrial printers in manufacturing.

- More than 500 standard and special inks in our portfolio
- Container sizes ranging from an HP cartridge to a 200-liter drum
- Development of customer-specific inks and paints
- Industry solutions and formulations for medical and pharmaceutical packaging, building materials, plastics, foodstuffs, the tire industry, metal, wood, stone, carpet, fleeces and all other kinds of packaging
- State-of-the-art development and testing methods secure the quality of our inks, paints and cleaners

Furthermore, the use of original REA JET inks, paints, primers and cleaners guarantees reliable operation of our systems. We offer a broad selection of over 500 standard and special inks in our portfolio.

Moreover, the quality of our consumables is constantly safeguarded using the very latest development and testing methods.

Please note:

- Inks and paints are available with a very wide range of chemical compositions; these need to match your product
- Criteria such as drying speed, UV resistance, durability, material compatibility, text accuracy, coverage ratio, color etc. must be matched to your specific requirements and the conditions on site
- Our experts create print samples under field conditions and recommend an appropriate overall solution



Universal cleaner

We offer our customers a non-flammable universal cleaner for contaminated workplaces and factory equipment, which is exempt from the labeling obligation. With the REA JET BC-1 400 cleaner most dried inks, primers and paints - not just those from REA JET - can be turned back into liquid and then removed.

Ribbons and labels

We sell ribbons (thermal transfer foils) and labels in a wide range of qualities, sizes and specifications for all standard label printers (thermal transfer printers).

Always Ready to Help: Service from our Specialists

Cutting-edge technologies and dedicated employees from various departments are a major reason why our products are successful and our customers are satisfied.

Fast and flexible reaction to customer requests as well as competent and unbu-reaucratic help are services that further underline the quality of REA products.



Always up to date: Individual Product Training

Training courses are offered for the complete REA JET, REA LABEL and REA VERIFIER product ranges. These courses are geared toward your individual needs, ensuring that your investment your investment in staff training really pays off.

Proper system handling, maintenance and care during operation and knowledge of the required measures for fault correction ensure the highest level of availability of your coding and marking system.



We are where you are: Worldwide

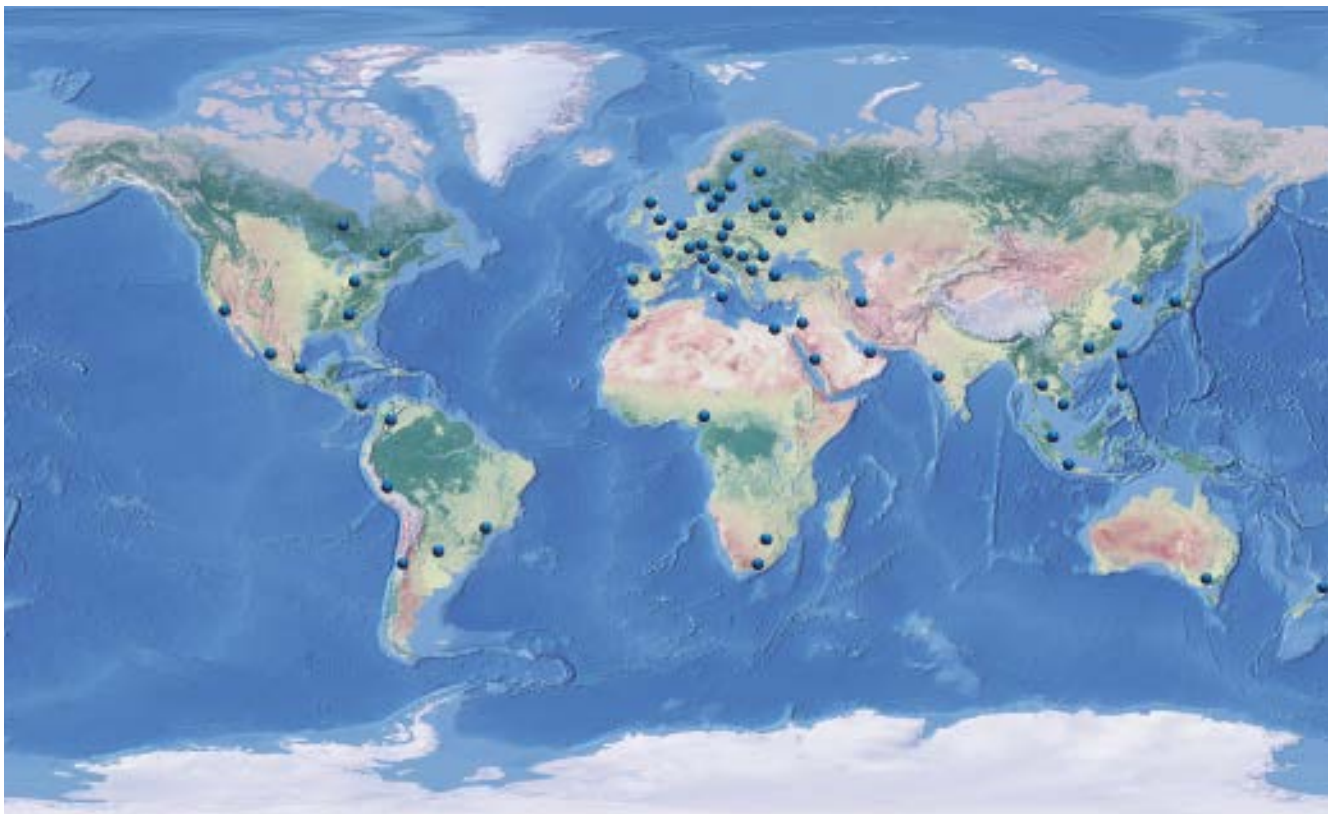
REA is an international company represented on every continent by its own subsidiaries and distribution partners. As a result, we can guarantee a reliable consulting and service network while being close to the markets and our customers all over the world.

The REA JET brand stands for a comprehensive range of systems in the field of industrial coding and marking. For over 35 years our industrial printers have been in use in a vast range of applications in almost every sector.

From the tough conditions of the steel working industry to the stringent regulations of the pharmaceutical sector, REA JET systems are in operation every day.

We offer solutions to help you meet the various coding and marking requirements of trade and industry in an efficient and economical way: from the standardized system configuration to tailor-made solutions in combination with the right inks for completely unique marking.

As such, our systems make an important contribution to the clear identification and traceability of products, both within internal logistics and in worldwide goods flows.



Worldwide REA JET subsidiaries and distribution partners.

REA

PRINT | APPLY | VERIFY



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REA LABEL

LABELING SOLUTIONS FOR
LOGISTICS AND AUTOMATION

REA LABEL

Product overview for labeling technology



REA LABEL: Labeling solutions for logistics and automation



Labels are used particularly in places where contact-free coding and marking technologies do not provide an adequate solution. When putting markings or machine-readable 1D or 2D codes directly on products is not an option, this is where labeling shows its true potential.

REA LABEL labeling systems are a reliable component in the production environment of today and provide for capable processes.

The labeling solutions of REA LABEL have been developed and manufactured in-house for reliable operation in challenging environments.

- Standard systems and implementation of customer-specific requirements by means of our own special-purpose machine building
- Precise labeling using advanced control technology
- Labeling applications: e.g. continuous, wrap-around, bottom, top, corner-overlap, front, cross-web labeling, etc.
- Shipping logistics, servo labeling, pallets, small load carriers, cage pallets, robotic marking, wood marking, grinding discs, canisters, etc.

REA LABEL ES: Labeling systems for fully automatic applications

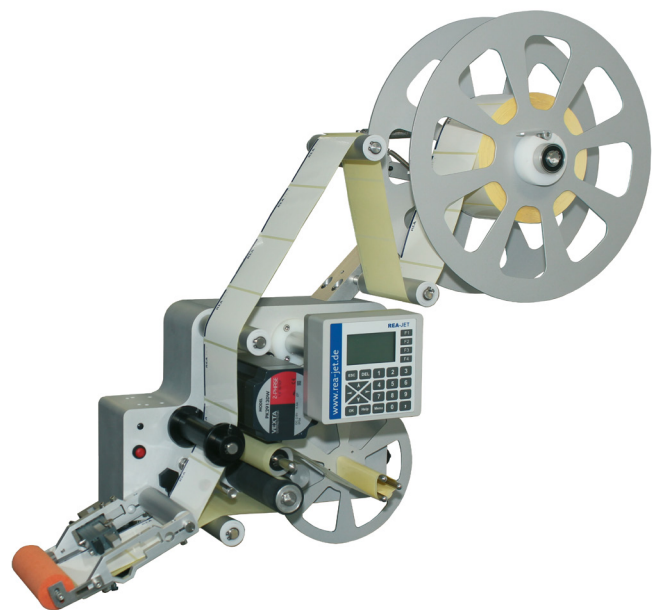
REA LABEL ES label dispensers are specially developed for applying preprinted adhesive labels.

The REA LABEL ES has a compact design with an integrated control system, meaning it can be conveniently incorporated into existing production environments.

The modular design of the dispensers plus the use of high-quality materials and user-friendliness ensure that the dispensers can be used efficiently and flexibly for a wide variety of fully automatic labeling applications.

REA LABEL ES benefits:

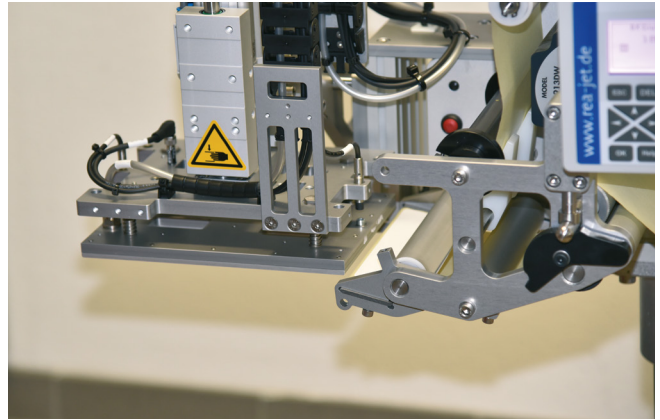
- Compact, rugged and modular design for easy incorporation into existing production environments
- Integration of REA standard or customer-specific pneumatic and servo applicators
- Can be expanded by adding the high-resolution REA JET HR inkjet printer coding and marking system or with REA laser systems
- Precise and fast labeling through state-of-the-art control technology
- Standard pass-through width 4", 6" and 8"
- Speeds of up to 60 m/min (optionally expandable)
- High system availability due to fast label changes



REA LABEL ES label dispenser



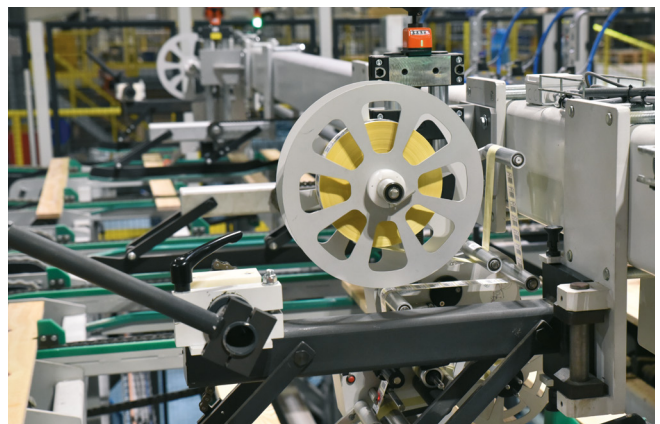
Applying labels to shrink hoods



REA LABEL ES with pneumatic applicator



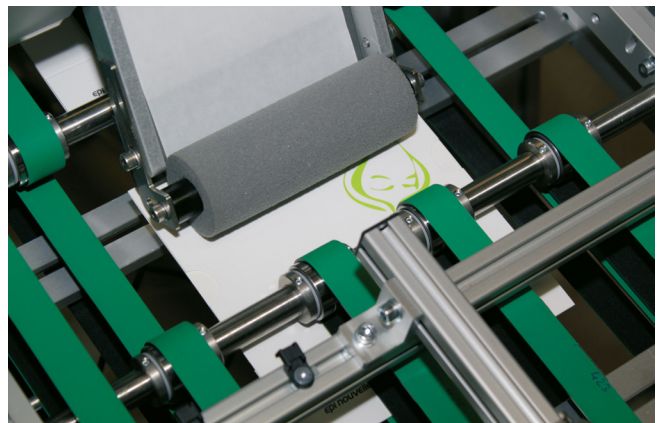
Dispenser for multi-labeling



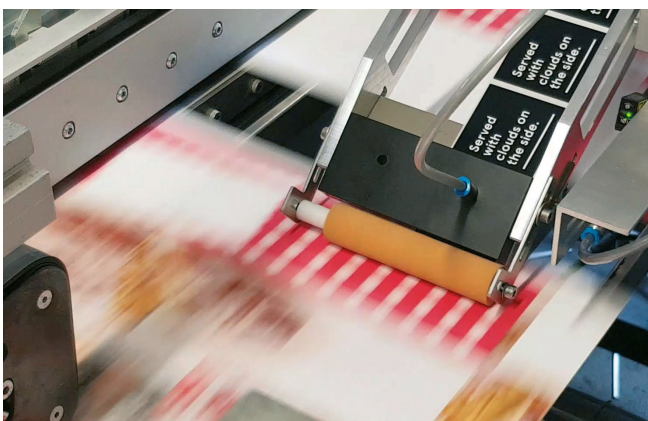
Labeling of wooden strips



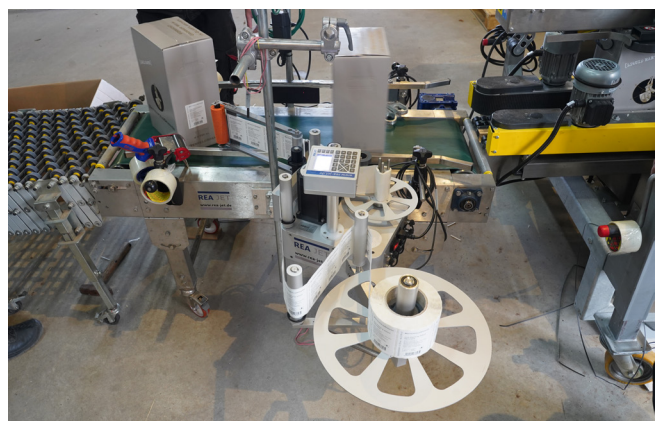
REA LABEL ES with integrated REA JET HR



Labeling of paper bags



REA LABEL ES with pneumatic suction plate



Labeling of wine boxes

REA LABEL DS: Printing, dispensing and applying labels Print and apply systems for a broad range of applications



REA LABEL DS print and apply systems have the functions of printing, dispensing and then applying labels to the product combined into one system.

Our print and apply systems can be equipped with common industrial printing modules and flexibly integrated into machines and systems or used as stand-alone solutions.

The solid construction makes it easy to maintain and handle and provides for even greater efficiency. Our REA LABEL print and apply systems feature peak performance at printing and dispensing speed as well as high print quality.

REA LABEL DLS continuous labeler:

- In-line printing, dispensing and then applying the labels in a continuous flow without stopping
- Intelligent overall concept for maximum degree of automation and uninterrupted production flow
- Modular design for customized selection of components
- Prepared to accept standard industrial printing modules (e.g. Novexx, CAB, Sato and Zebra)
- Flexible integration into packaging machines or production lines owing to the compact design

REA LABEL DS benefits:

- Direct and fully automatic printing and applying in one work step
- Suitable for customized workflows
- Prepared to accept standard industrial printing modules (e.g. Novexx, CAB, Sato and Zebra)
- Flexible REA LABEL microprocessor or Siemens S7 controller
- Integration of camera and scanner systems
- Flexible operating options via standard input terminal, touchscreen or machine control panel (HMI)
- Use of REA standard or customer-specific pneumatic applicators or high-speed servo applicators
- Different standard applicators for applying labels by rolling, blowing or pressing them onto products and packaging
- The entire system can be controlled through the REAnet protocol
- Optionally with Profinet and Profibus connection



REA LABEL DLS continuous labeler



REA LABEL DS print and apply system



Print and apply system for wrap-around labeling



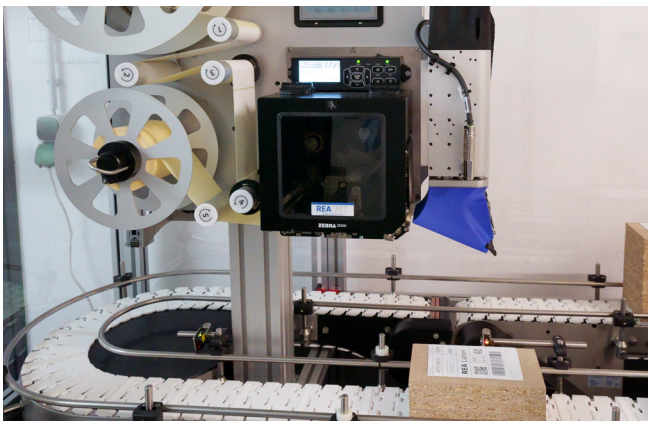
Labeling over an edge



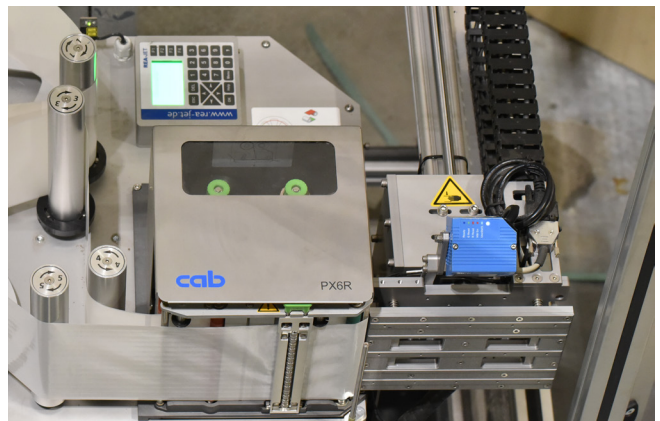
Continuous labeling of composite lumber



Labeling of canisters



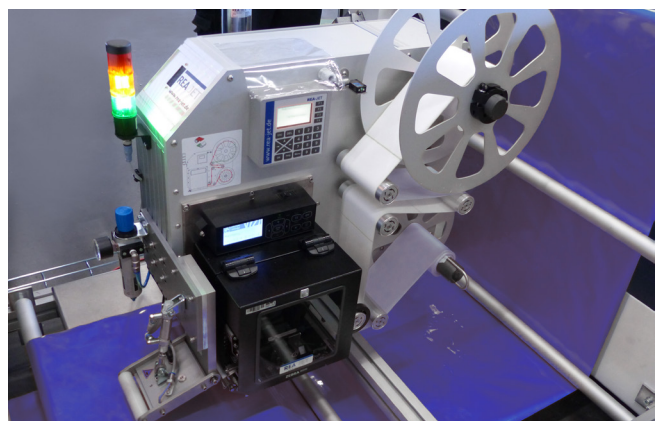
High-speed servo dispatch labeler



REA LABEL DS-ST print and apply system



Labeling of food packaging made of plastic



Labeling of packaging film

REA LABEL PLU: Pallet Labeler Unit Efficient labeling of pallets

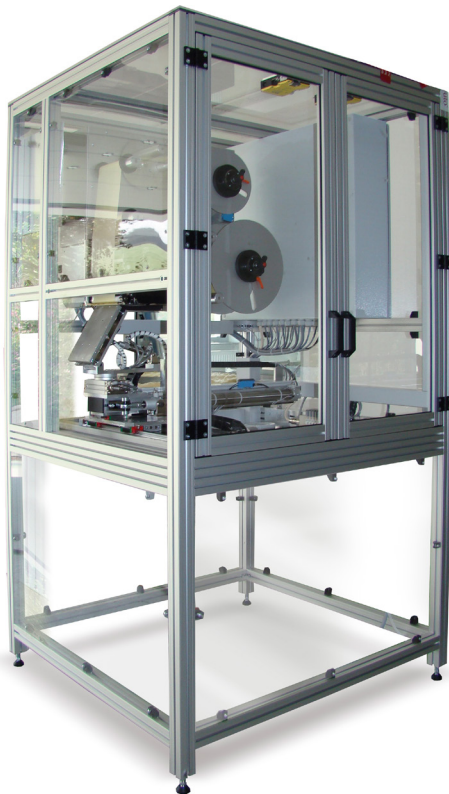


REA LABEL pallet labeling systems have been developed specifically for integration into logistics and production lines. The modular design allows for fast and flexible configuration. This means that even special customer requirements can be implemented.

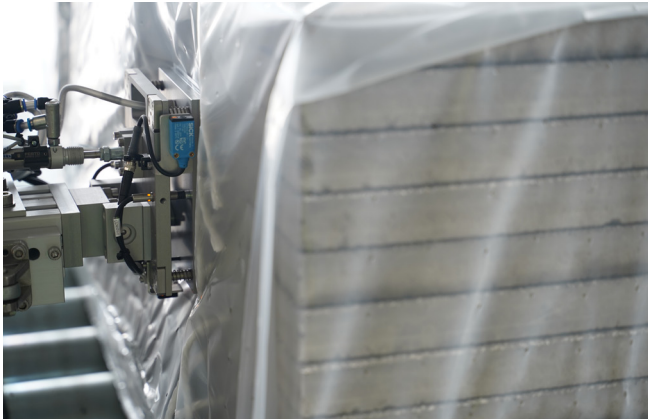
REA LABEL PLU benefits:

- Increased degree of automation and optimized performance
- Marking in a continuous flow or at a standstill
- Rugged enclosures made of aluminum or stainless steel, sturdy mechanical system with air-conditioning and/or heating
- Deep-freeze applications down to -28 °C
- Single-side labeling on the longitudinal side in the direction of flow
- Double-sided labeling on the longitudinal and back sides (CCG/GS1)
- Triple-sided labeling on the front, longitudinal and back sides
- Pneumatic or servomotor-controlled vertical and horizontal movement (optional)
- Easy integration into existing logistics and production environments
- User-friendly software, state-of-the-art interfaces
- Flexible data link to higher-level ERP systems

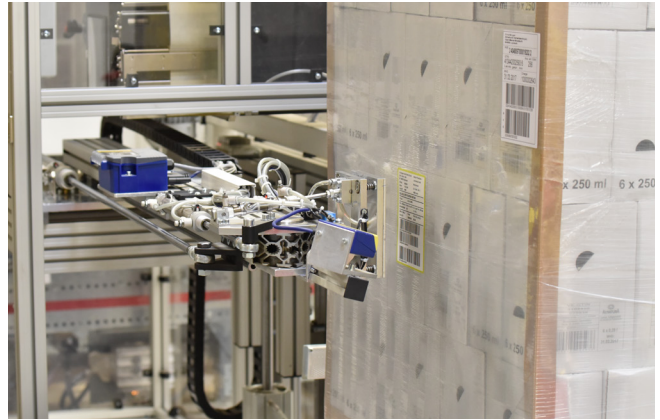
A flexible system was created by using high-quality components, a flexible REA LABEL microprocessor or Siemens S7 controller.



REA LABEL PLU



Front labeling on plastic film



Triple-sided pallet labeling on the longitudinal, front and back



Applying labels to stacks of corrugated cardboard



Double-sided labeling on the longitudinal and back sides



Lateral pallet labeling



A4 Pallet Labeler Unit with vertical movement



Pallet labeling with code verification



Front labeling at various heights

REA software solutions: Standardized or customized



REA provides professional standard and customized software solutions for industrial label printing. The solutions are based on standard programs from NiceLabel and Codesoft. These programs can be flexibly adapted to meet individual customer needs.



Label creation with NiceLabel

We are a certified partner of the following manufacturers:



Extensive product range: ink ribbons, cartridges and labels



The labeling technology is ideally complemented by ink ribbons, cartridges and labels in a wide range of qualities, sizes and specifications.

Requirements-based label printing for daily labeling tasks through customized design of blank and preprinted labels.



Das Zeichen für verantwortungsvolle
Waldwirtschaft
FSC® C106855

Gültig für REA Systemtechnik GmbH





Code verification systems: Verified label printing – all from a single source

The label ink ribbon combinations are optimally complemented by verification of 1D / 2D codes with REA VERIFIER systems.

REA VeriCube is a state-of-the-art matrix and barcode verification system that can be used in any industry.

Whether lying down, standing up or from top to bottom. Nearly every test sample can be measured here in optimal position.

The measured values are sent to a computer via the network interface and a standard network cable for evaluation and processing using the REA TransWin32 evaluation software.

By using REA VeriCube, you find out quickly how you can improve the read rates of the verified codes. Optimize the print quality of the labels with the help of detailed measurement results.



Verified label printing
with REA VeriCube

Always on the cutting edge: Customized training and service on-site

Fast and flexible responses to customer requests as well as competent and unbureaucratic help are services that additionally underscore the quality of REA products.

Training courses are offered for the entire REA LABEL product line and are tailored to your wants and requirements. The investment of training your personnel pays off.

When they know how to handle the system properly, perform maintenance and upkeep during operation, and take the measures required for troubleshooting malfunctions, it ensures maximum availability of your labeling technology system.



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