LABEL(PRINT)DISPENSER

Flexible system integration made easy.

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SAFE
SERIALISATION
LABELLING
AUTOMATION

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About b+b

Tradition meets innovation for sustainable success

For almost four decades, b+b Automations- und Steuerungstechnik GmbH has been well-established when it comes to labelling. As a family-run company in its second generation, personal interaction and long-term customer relationships are particularly important to us.

We know we've done our job right if you are completely satisfied.

Our portfolio includes a wide range of standard and customized labelling machines and marking systems for various industries. From manual to fully automatic solutions and software development, we offer everything from a single source:

+ Labelling machines for every need
+ Printing and dispensing systems for labels
+ Solutions for serialization and aggregation
+ Software for label design and automation
+ wide selection of labels and consumables

The modular machine design is budget-friendly and the flexibly adaptable software makes it easy to control complex processes. We listen carefully, understand your requirements and develop the optimum solution to achieve your goals.

Our expertise and experience make us the perfect partner for your labelling and tracking requirements.

Visit our website at www.bb-automation.com and discover how to work more productively, increase your competitiveness and be more economical.

Label dispenser

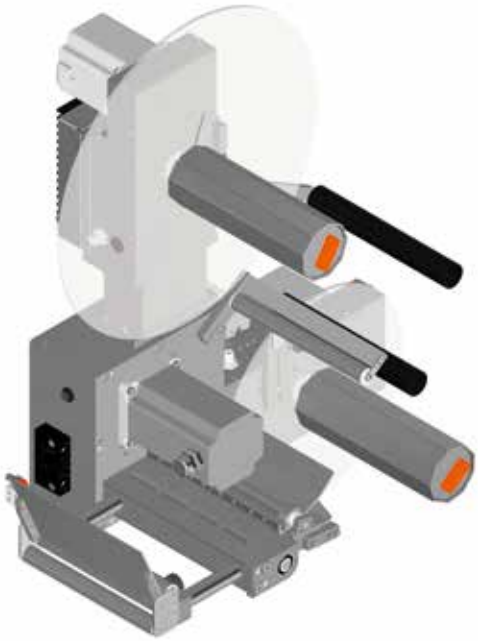
Rapid RSL

Compared to the SM model series, the RSL label dispenser is characterised by higher performance and speed with the same labelling accuracy.

Compared to its predecessor, the material change simplified compared to its predecessor, and the material feed has been significantly improved.

Features

+ Speed synchronisation control
+ Label compensation
+ modular design
+ Simplified material changeover
+ optionally with driven label unwinder
+ (auto-synch mode)
+ optionally with driven
+ rewinder (auto-synch mode)



Product video on YouTube

Label dispenser on our website

Technical data – Rapid RSL	
Label scanning	Ultrasonic | Optical | Mechanical scanning
Handiness	L/R
Label widths	100 mm | 200 mm | 320 mm
Accuracy	± 0,25 mm
Core diameter	76 mm optional also larger Ø
Outer diameter	300 mm | 400 mm | 500 mm
Vmax	80 m / min

Rapid RSL Print+

The RSL Print+ label dispenser is predestined for fast, precise printing and dispensing. The integrated OEM print module (e.g. Zebra ZE series, CAB PX Q series) allows labels to be printed quickly and easily in the process.

Like the RSL model, this model can also be used as a pure label dispenser. label dispenser.

This means that pre-printed labels can also be dispensed. Thanks to the simple material change, the dispenser can be quickly and easily converted to other label rolls. and easily converted to other label rolls.

Features:

+ Speed synchronisation control
+ Label compensation
+ modular design
+ Simplified material changeover
+ Optionally with driven label unwinder
+ (auto-synch mode)
+ optionally with driven
+ rewinder (auto-synch mode)

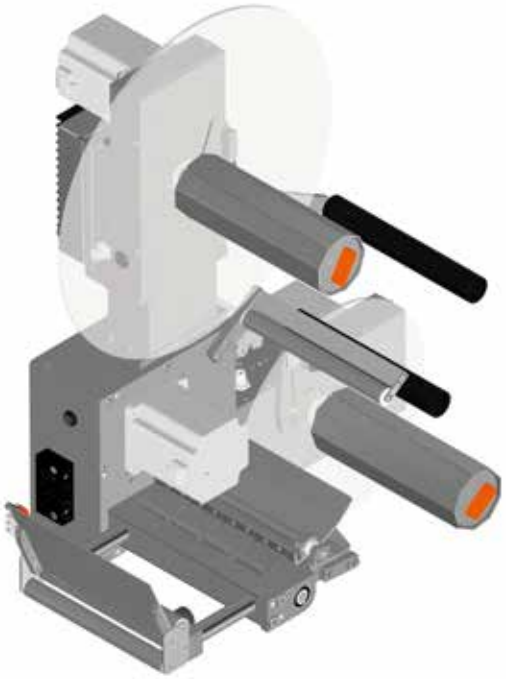
Technical data – Rapid RSL Print+	
Label scanning	Ultrasonic | Optical | Mechanical scanning
Handiness	L/R
Label widths	Integrated OEM print module (e.g. Zebra ZE series, CAB PX Q series) with oscillating module
Accuracy	± 0,3 mm
Core diameter	76 mm optional also larger Ø
Outer diameter	300 mm | 400 mm | 500 mm
Vmax	80 m / min

Rapid R2SL

The RS2L label dispenser is the more cost-effective variant compared to the RSL and RSL Print+. The RS2L dispenser can be optionally equipped with speed tracking and is thus well suited for consistent production speeds.

Features

+ Optional speed tracking
+ Label compensation
+ modular design
+ Simplified material changeover
+ optionally with driven label unwinder
+ (auto-synch mode)
+ optionally with driven
+ rewinder (auto-synch mode)



Product video on YouTube

Label dispenser on our website

Technical data – Rapid RSL	
Label scanning	Ultrasonic | Optical | Mechanical scanning
Handiness	L/R
Label widths	100 mm | 200 mm | 320 mm
Accuracy	± 0,3 mm
Core diameter	76 mm optionally also larger Ø
Outer diameter	300 mm | 400 mm | 500 mm
Vmax	70 m / min

Extension RSL model series

for almost any application

Thanks to a wide range of expansion options, the RSL model series can be flexibly adapted and is suitable for almost any labelling application. Whether for special product sizes, different printing requirements or complex production processes - the modular extensions of the RSL series enable a customised solution that is perfectly tailored to individual needs.

Overview

Tamp-Blow

Label applicator with label attachment by compressed air (airbox) and additional applicator stroke

Tamp on P

Label applicator with pneumatic stroke

Tamp on E

Label applicator with electronic linear motor

PSZ

Pneumatic dispensing tongue for infinitely variable height compensation of up to 50 mm

VSPZ

Movable dispensing tongue for releasing the label from the backing material

Label prewarning

Sensor for detecting a lack of material with signal to the outside

Signal light

3-stage indicator light with standard holder (red|-blue/yellow/green)

Vision

Integration of camera system/sensor on label dispenser

Labelreject

Label ejection during ongoing process

Print modules and laser

By integrating TTO or TIJ printers, the label dispensers can also be used to apply variable data and individual imprints, such as batch numbers, best-before dates and much more.

TTO	Integration of TTO printer on label dispenser (e.g. Videojet Dataflex series)
TIJ	Integration of TIJ printer on label dispenser (e.g. Videojet m610 series)
Laser	Integration of marking laser on label dispenser

Rapid SM | Rapid SML

With the SM and SML label dispenser, pre-printed labels can be applied quickly and precisely to products and packaging. Thanks to their compact design, the SM and SML label dispensers are particularly space-saving. They can be integrated into almost any production line and system.

Thanks to the use of robust components, the dispensers are ideally suited for use in industrial operations and can also be used in multi-shift operations without any problems.

A powerful stepper motor offers very high labelling accuracy.

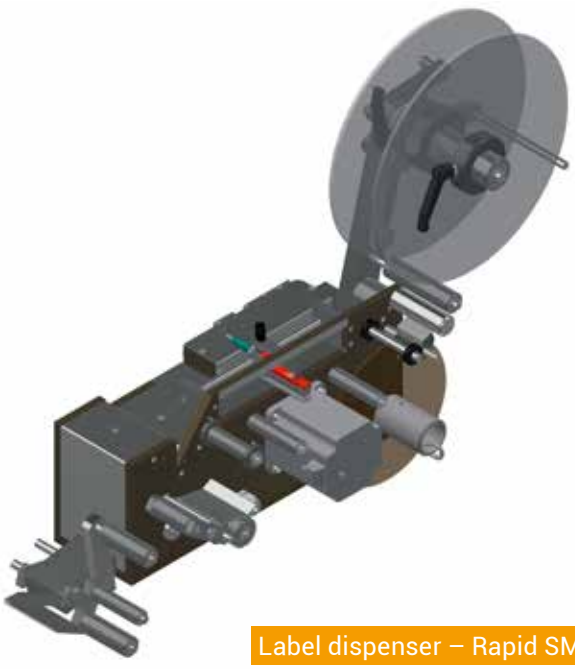
Features

+ Label compensation
+ optionally with driven label dispenser (auto-synch mode)
+ optional with driven liner rewinder (auto-synch mode)

Rapid SM and SML in comparison

The label dispenser Rapid SM can be optionally equipped with speed synchronisation. For the label dispenser Rapid SML we offer an optional speed tracking.

Label dispenser – Rapid SM



Label dispenser – Rapid SML

Technical data – Rapid SM | Rapid SML	
Label scanning	Ultrasonic | Optical | Mechanical scanning
Handiness	L/R
Label widths	120 mm | 160 mm | 200 mm | 250 mm | 300 mm | 400 mm
Accuracy	± 0,3 mm
Core diameter	40 mm | 76 mm optionally also larger Ø
Outer diameter	300 mm | 400 mm
Vmax	60 m / min

Extension SM model series

for almost any application

Thanks to a wide range of expansion options, the SM model series can be flexibly adapted and is suitable for almost any labelling application. Whether for special product sizes, different printing requirements or complex production processes - the modular extensions of the RSL series enable a customised solution that is perfectly tailored to individual needs.

Overview

Tamp-Blow

Label applicator with label attachment by compressed air (airbox) and additional applicator stroke

Tamp on P

Label applicator with pneumatic stroke

Tamp on E

Label applicator with electronic linear motor

PSZ

Pneumatic dispensing tongue for infinitely variable height compensation of up to 50 mm

VSPZ

Movable dispensing tongue for releasing the label from the backing material

Label prewarning

Sensor for detecting a lack of material with signal to the outside

Signal light

3-stage indicator light with standard holder (red|-blue/yellow/green)

Vision

Integration of camera system/sensor on label dispenser

Labelreject

Label ejection during ongoing process

Print modules

By integrating TTO or TIJ printers, the label dispensers can also be used to apply variable data and individual imprints, such as batch numbers, best-before dates and much more. individual imprints, such as batch numbers, best-before dates, consecutive numbers and much more.

TTO	Integration of TTO printer on label dispenser (e.g. Videojet Dataflex series)
TIJ	Integration TIJ printer on label dispenser (e.g. Videojet m610 series)

Rapid MINI 2.0

The label dispenser Rapid Mini 2.0 performs simple dispensing tasks to label the product in process.

Features

+ Etikettenkompensation
+ integrierte Steuerung mit 2-zeiligem Display

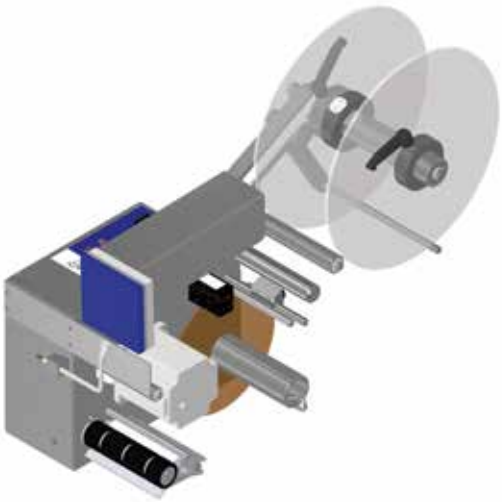
Label dispenser – Rapid Mini 2.0

Rapid MINI 2.0-T

The label dispenser Rapid Mini 2.0-T is equipped with a pad applicator. This makes it possible to label products and packaging while the machine is at a standstill.

Features

+ Label compensation
+ Pad applicator in lengths from 50 - 150
+ Special version with stroke up to 500 mm optional
+ integrated control with 2-line display
+ optional as TAMP BLOW version



Label dispenser – Rapid Mini 2.0 -T

Technical data – Rapid Mini 2.0 | Rapid Mini 2.0-T	
Label scanning	Ultrasound
Handiness	L/R
Label widths	120 mm
Accuracy	± 0,5 mm
Core diameter	40 mm | 76 mm optionally also larger Ø
Outer diameter	200 mm | 300 mm
Vmax	30 m / min

Extensions

Label prewarning

Sensor for detection of material shortage with external signal

Signal light

3-stage signal lamp with standard holder (red|blue/yellow/green)

Integration example RSL

Labelling machine for shaped bottles (model FM) with the RSL label dispenser

The fully automatic labelling machine FM-3S-T was developed to apply multiple labels to the sides and top of with several labels on the side and on the top. The labelling system is based on the RSL label dispenser. A total of four label dispensers are used in the

are used in the line. Different dispensing edges and applicators and applicators, the following labelling operations can be carried out in the system:

+ Labelling on both sides
+ Lateral labelling with 2 labels
+ Lid labelling

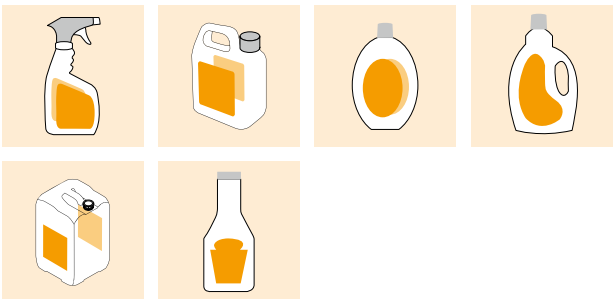
The products are fed into the system via a system via a conveyor belt. Before the products reach the labelling station, they are separated and aligned.

The label compensation of the RSL label dispenser ensures that all products are labelled. If there is still an unlabelled product in the line, it is ejected from the line at the product ejection station.

At a glance

+ Labelling on both sides of shaped bottles
+ Lateral labelling with 2 labels
+ Lid labelling
+ Label dispenser RSL as a basis
+ Label compensation
+ Product separation
+ Product alignment
+ Product rejection

Examples of product formats



Label print dispenser

EDS

The label print dispenser EDS is designed for industrial operation and enables precise, reliable and fast labelling of products and packaging.

The standard system consists of a print module, label applicator, label dispenser and control unit. Different applicators and label transfer modules make the label dispenser suitable for almost any application. The systems are available as a 4“ variant or as a 6“ variant and as (right-hand) RH and (left-hand) LH units. available.

The label prewarning, which is already included in the standard module, informs the operator at an early stage about the impending label change. The modular design and robust construction were the focus of the system‘s development. focus.

Since all expansion modules and applicators are plug-in, the systems are modularly expandable or completely adaptable to a specific application at any time. expandable or completely adaptable to another other applicator system.

Applicatores

+ 50 mm | 100 mm | 200 mm | 250 mm Tamp-on
+ applicator (4,5 bar - up to 7N)
+ 300 - 1200 mm Tamp-on applicator (6 bar - greater than 7N)
+ 90° swivel applicator (front | back)
+ Swivel stroke applicator
+ Swivel stroke applicator
+ Corner-wrap applicators (corner wrap for front | back)
+ Special applicator for very small labels (2 pneumatic movements)
+ Flag applicator for round materials
+ Tandem | telescopic applicators - compact design with long reach
+ Special applicators

All of the above applicators are optionally available with a blowing function | distance sensors or spring-loaded vacuum plate.

Dispensing edges

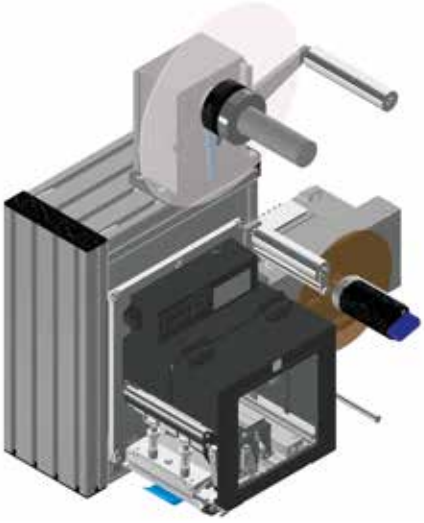
+ Dispensing edge with pressure roller | scraper brush (dispensing speed identical to printing speed)
+ Motor-driven dispensing edge (dispensing speed independent of printing speed - max. 60 m/min) with optional speed

Selection of the print modules

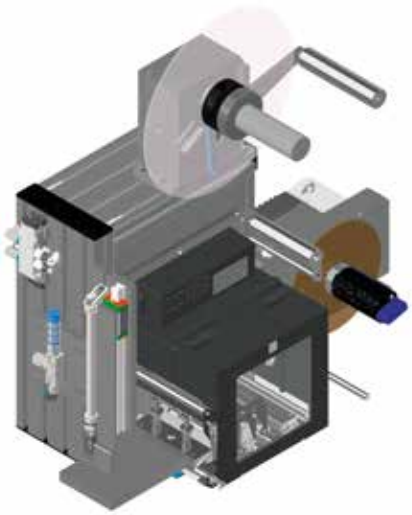
+ Zebra ZE500-4 (Standard 4“)
+ Zebra ZE500-6 (Standard 6“)
+ CAB PX Q4 | CAB PX Q4.3
+ CAB PX Q6.3
+ SATO S84-EX
+ SATO S86-EX
+ Novexx DPM
+ Novexx PEM
+ datamax • o´neill A-4XXX
+ datamax • o´neill A-6XXX
+ TSC PEX-1120 | PEX-1220
+ TSC PEX-1130 | PEX-1230
+ TSC PEX-1160 | PEX-1260

Features

+ Label prewarning
+ Print module
+ Different label dispensers and liner rewinder available
+ wide range of dispensing edges
+ and applicators



Label print dispenser – EDS



Label print dispenser – EDS with pneumatic transfer

Zubehör

+ fixed | mobile stands in different heights
+ height and adjustment units
+ Adapters for side mounting
+ Product light barrier KIT
+ Signal light KIT
+ Display relocation KIT for installation outside
+ 1D barcode scanner KIT
+ 1D/2D barcode scanner KIT

Technical data – EDS	
Variants	4" | 6"
Handiness	L/R
Printing method	Thermal Transfer | Thermal Transfer Direct
OEM print modules	4" | 6" from various manufacturers
Printing speed	up to 500 mm/s*
Dispensing speed	up to 60 m/min** | up to 400 mm/s with dispensing edge
Substrate width	with 4" unit: 120 mm | with 6" unit: 180 mm
Roll diameter	300 mm (standard) | 300 mm or 450 mm (with driven unwinder)
Core diameter	40 mm | 76 mm (standard) | 76 mm with quick release (with driven unwinder)
Connection possibilities	Product light barrier | 10-pin interface (customer interface) | 3-stage signal lamp |extension module
Steuerung	Siemens S7-1200 or microprocessor controller
Operation	KTP400 basic | TP700 with Siemens control system 2-line display | 8.4" touch panel with microprocessor control unit
Other features	built-in EMERGENCY STOP relay (2-channel)
Signal exchange	digital I/Os and/or PROFINET (optional)
Approvals***	CE | UL

*dependent on the selected print module | **dependent on the selected application module | ***dependent on the control type

Integration example EDS

Semi-automatic printing and dispensing system for cartons

Model TNC-EDS6i-FCW

The semi-automatic label print and apply machine is designed for corner wrap labelling of outer cartons. The product is placed in the machine by the operator. By means of an integrated product sensor the labelling process is activated automatically as soon as the operator leaves the safety area of the system.

The corner label is applied to the top side (the side facing the operator) and rolled onto the left-hand side of the product as an L-label. An integrated scanner detects 1D and 2D codes and reports the scan results to the scan results to the line control system or to other external systems.

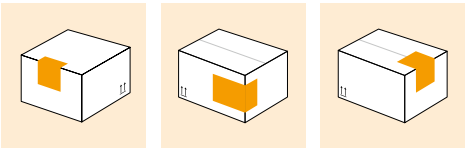
Thanks to the mechanically adjustable product pick-up station, cartons of different sizes can be labelled with the system. Changeover is simple and repeatable due to the applied adjustment scales.

By integrating a print module, the labels can be printed before they are applied to the product. The print and apply unit is suitable for the integration of 4“ and 6“ OEM print modules

At a glance

+ Semi-automatic printing and dispensing system
+ Corner-wrap labelling of outer cartons
+ Printing of labels
+ Integration of 4“ and 6“ OEM print modules
+ Mechanically adjustable product pick-up station for labelling different carton sizes
+ Simple change-over thanks to attached adjustment scales
+ Optional integrated product sensor for triggering the labelling process
+ Optional protective housing
+ Optional scanner for capturing 1D and 2D codes

Examples of product formats



Integration example EDS

Fully automatic printing and dispensing system for bags

Model SLM

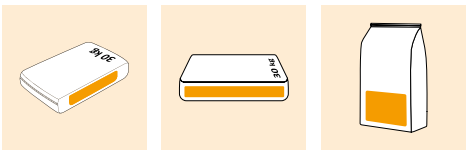
The SLM labeller was developed for labelling sacks. The label is applied to the bag via a vacuum belt transfer.

An additional pressure roller is used to achieve a precise application result.

The sack label is then recorded fully automatically via a barcode scanning station and can optionally be reported to a higher-level system.

The EDS 620i label dispenser forms the basis of the pressure-dispensing system. This is designed for operation in harsh industrial environments and enables you to label your products precisely, reliably and quickly as well as with high autonomy due to the available label roll diameters.

Examples of product formats



At a glance

+ Side labelling of bags
+ Application of variable data thanks to the label print dispenser EDS 620i
+ Precise labelling by pneumaticpressure roller
+ All line models are modularly expandable and can be equipped with, for example, serialisation, coding and and inspection units

Product video on YouTube

Model SLM on our website

LP5 labelling software

Overview of functions / modules

LabelsPlatform 5 makes any labelling task possible. From the simple label design editor to industry or customer-specific extension modules that optimise the workflow and make daily work easier for the operator. Based on the unbeatable possibilities of LabelsPlatform 5, we offer specialised solutions for production line control - far beyond the limits of a normal label editor. Serialisation and aggregation modules provide you with supply chain transparency.

LP5 FORMATMANAGER / LP5 REMOTE

make the use of PC workstations in production unnecessary

LP5 LABEL EDITOR

The integrated label editor is the heart of the LP5 automation solution

LP5 DATABASE MANAGER

Keep track of your data and connect to other systems

LP5 COMPLIANCE MODULE

Enables compliance with local and/or industry-specific policies and laws

LP5 COMMANDER / LP5 AUTOMATIONCENTER

Automate label printing and the entire process workflow

LP5 TOUCH EDITOR

Touch-optimised label editor for creating and changing layouts

LP5 SOCKET / LP5 COM

allow you to remotely control LP5 from your own applications using standard network functions

LP5 PRINT TOOL APP

Convenient and easy control of LP5's printing functions via Android app

Improve your processes with the right labelling software!

Are you looking for versatile, cross-line automation software that efficiently solves your labelling requirements? Or are you looking for a competent partner who can seamlessly integrate your printing and dispensing systems into your ERP system?

Visit **www.labelsplatform.de** and discover a flexible, modular solution that is precisely tailored to your labelling needs!

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b+b Automations- und Steuerungstechnik GmbH

- A single point of contact for all project phases
- Service Level Agreements
  After Sales Service
- A single source for complete solutions
- Industry-specific documentation
- Customised solutions despite standardisation

A single source for complete solutions.

From labels to fully automatic labelling systems, b+b provides a complete solution from a single source, comprising the relevant hardware and software components.

Our standardised, made-to-measure production process ensures high cost-effectiveness.

In response to the increasing demands in product labelling, we have developed flexible, modular and reliable labelling solutions. Thanks to b+b's modular design, the systems can be adapted to new labelling requirements and guidelines at any time.

b+b provides a comprehensive range of standard and bespoke labelling and marking solutions tailored to the specific needs of every industry.

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