



Label dispensers  
for industrial use

**ROXI**  
Made in Germany

Expert units at best price



# ROXI label dispensers

**The future-proof investment for precise insert labeling.**

**Perfect in every detail, the new label dispenser ROXI.**

**Solid construction, advanced in electronics, software and usability.**

**Small in price, great in performance**



**Compact and slim design**  
easy to install in production lines

**Any assembly**

vertical, horizontal, inclined – in left-hand and right-hand designs

**High quality and reliability**

by assembling proven functional modules at the production site in Germany

**Durable and easy to maintain**

designed for permanent industrial use, firmware updates via Ethernet or USB interface

**Cost-efficient solution**

The complete range of features with all interfaces and software functions are included and provided as a standard.

**Dynamic speed control**

A master encoder enables label webs been fed automatically and in accordance with the speed of items running on a conveyor.

**Safety guaranteed**

CE, CB, ULus certified by an authorized testing lab

**Quick setups**  
by simple material changeover

**Comfortable operation**

Navigate intuitively in eleven languages, access major features instantly, set parameters in detail using a comprehensive menu.

**Future-proof data interfaces**

for data communication, MQTT, Modbus and OPC UA to enable cross-platform interaction, protocols are kept simple and lean, machine and system data can be updated in real time, two USB interfaces enable WLAN, plugging a warning light or an external control panel.

**Remote control**

Via VNC with a higher-level machine controller, a PC or the external control panel

**Web interface**

for example backup data and access of all documentation related to a unit

**Useful accessories**

Assembly columns, stands, connecting cables, etc. help label dispensers been installed ready for use.

# Control panel

**Intuitive and easy operation.**

**Rotatable in steps of 180°, depending on the orientation in which a dispenser has been installed.**

**A self-explanatory menu for device configuration**



## ON/OFF

Switch label dispenser on or off

## Status bar

Speed, label winding, label size, WLAN signal, status of start / stop signal

## Operational notes and warnings

along with status and menu parameters

## Counter and diagnostics

configurable specified to an application

## Quick menu

for extra-fast parameter setting

## Pre-dispense key

for dispensing labels manually



## Operating instructions

View feed path schemes on display. For further explanatory videos, scan QR code with a mobile device.



**Dispensing speed**  
in synchronization with the speed of products on a conveyor

**Position of a label on an item**  
Including multiple labeling; start condition

**Stop labels at the dispensing plate**  
Missing labels are detected; stop condition

**Define print settings**  
for controlling a printer and a label transfer unit

**SPEED** **SYSTEM**  
**START** **FORMAT**

**Define system settings**  
such as display, language, label webs ending, interfaces

**STOP** **CHARGE**  
**PRINT** **SERVICE**

**User configuration**  
to any number of formats, PC backup and restore

**Batch counter**  
Automatic stop after specified number of products

**Service tools**  
Maintenance assistant, video tutorials, display and setting of inputs and outputs for service purposes

# Technical data and interfaces

Standard  Additional options

Label dispensers		Type	ROXI 120	ROXI 180
Web speed	up to m/min		30	20
Orientation of assembly			vertical / horizontal	
Direction to which dispense labels			L = to the left, R = to the right	
Labels	Material on roll		Paper, plastics PET, PE, PP, PVC	
Width	mm	10 - 116		10 - 176
Length	mm		10 - 6,000	
Distance	from mm		2	
Thickness	mm		0.055 - 1.0	
Liner tape	Width	up to mm	120	180
Weight of media roll		up to kg		12
Unwinder	Outside-Ø	mm	300	
	Core-Ø	mm	76	
	Winding		outside or inside	
Rewinder	Outside-Ø	mm	200	
	Core-Ø	mm	76	
Label dispenser without demand module	Width	mm	480	
	Height	mm	530	
	Depth	mm	266	328
	Weight	kg	12	13.5
Label sensor	detecting		label margin and materials ending	
	Distance to the locating edge		<input type="checkbox"/> 20 - 60	
	Transmitted light		<input type="checkbox"/> 8	
Operating data	Voltage		100 - 240 V~, 50 - 60 Hz	
Temperature / Humidity	Operation		0 - 40 °C / 10 - 85 %, not condensing	
	Stock		0 - 60 °C / 20 - 80 %, not condensing	
	Transport		-25 - 60 °C / 20 - 80 %, not condensing	
Approvals			CE, FCC Class A, ICES-3	
	in preparation		cULus, CB	
Protection class			IP 40	
Operation panel	LED buttons		ON, FEED	
	LCD graphics display	Width x Height mm	54 x 70	
Monitoring			Pre-warning to end of label web, end of label web, label web broken	
			Torque, temperature, power supplies	

<sup>1)</sup> Limitations can occur when processing small labels, thin materials or materials using a strong adhesive. Critical applications need testing.



## ① Mains switch Cold appliance socket

**② 2x USB hosts**  
for warning light, external operation panel, USB stick and USB WLAN stick

**③ Ethernet**  
TCP/IP data transmission

**④ START**  
Start signal, for example with product sensor

**⑤ SYNC**  
Synchronization of the labels to the product speed with the encoder

**⑦ PRINT & APPLY**  
Peripheral interface for printer and transfer unit, e.g. solenoid valve

**⑧ STOP**  
for label sensor inductive or optional transmitted light

## ⑥ I/O interface

conform to IEC/EN 61131-2, Type 1+3;  
all inputs and outputs are protected from reverse polarity. The outputs are also short-circuit-proof.

### Digital inputs

Label dispenser ON  
Pre-dispense  
Start labeling  
Start labeling locked  
Error reset  
User-defined

### Analog inputs

Speed  
Start delay  
Stop delay

### Digital outputs PNP

Unit ready  
Pre-dispense  
Stop label feed  
Label feed running  
Label missing on liner tape  
End of label web  
Pre-warning to end of label web  
Error  
User-defined



# Additional options to the label dispenser

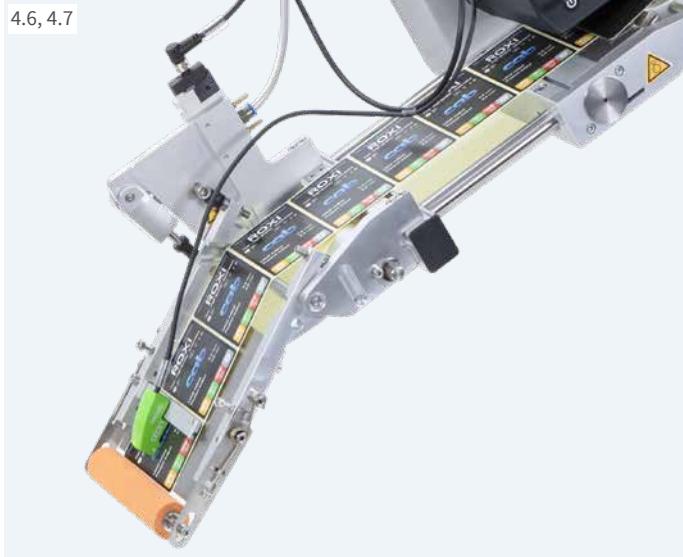
4.1, 4.2



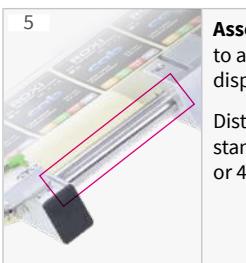
4.4, 4.5



4.6, 4.7



5



## Assembly rod

to assemble the peel-off plates on the label dispenser

Distance peel-off plate to label dispenser standard 100 mm, optional 25, 200, 300 or 400 mm, intermediate lengths on request

## Peel-off plate standard

provided in lengths of 100 mm



pictured with a label sensor CEON

## Peel-off plate 0° to 90°

The dispensing plate is angled at 75° for vertical assembly.



pictured with a label sensor CEON

## Peel-off plate 0° to -30°

Swinging downwards pneumatically by up to -30°. Uneven products can be labeled and labels be dispensed into pockets.



pictured with a label sensor CEON

6.1



## Label sensor CEON

to detect and exactly position all conventional (even particularly thin, transparent or metallized) label materials.

Retainer bar to assemble the label sensor CEON on the peel-off plates

Sensor distance to the locating edge from 9 to 80 mm

Length of connection cable 450 mm

- easy to assemble
- precise detection
- high repeat accuracy
- comfortable AutoTeach sensor balance

6.2



## Forked light barrier

to detect translucent labels with transparent or semi-transparent liner tapes; optical operation principle (transmitted light)

Retainer to assemble the forked light barrier on the assembly rods

Sensor distance to the locating edge 8 mm

Height of material passage 2 mm

# Accessories

8.1		<b>Product sensor</b> to trigger the labeling process as soon as the product has been detected. The maximum scanning range standard is 200 mm, with connecting cable M12-M8, 4 pin, a-coded, length 2.5 m
8.2		
9.1		<b>Rotary encoder</b> incremental, resolution 0.1 mm with connecting cable M12, 5 pin, a-coded, lengths 2.5 m A and B tracked to automatically synchronize the labeling speed, with MS software key
9.2		Friction wheel, circumference 200 mm
9.3		The retainer is used to press the friction wheel onto the conveyor belt in a spring-mounted manner. To assemble on a conveyor belt, a mounting bracket is required.
11.1		<b>I/O interface cable wire-end-ferruled</b> M12, 17 pin, lengths 5 m
15		<b>Warning light</b> to connect to the label dispenser <b>Red</b> Group error, e. g. end of label web, label web broken <b>Yellow</b> Pre-warning to end of label web <b>Green</b> Device ready  With connecting cable USB; length 1 m
16.1		<b>External operation panel</b> providing the same functionality as on the label dispenser  Users are free to choose whether to operate the label dispenser on the external panel or on the one integrated in the device.  <b>1</b> <b>USB slot</b> , in order to transfer configuration data or the firmware <b>2</b> <b>LED: Power ON</b>
16.2		<b>Connecting USB cable</b> Lengths are 1.8, 3 and 5 m, Lengths 11 and 16 m on request

## Assembly aids



**to assemble the label dispenser customer-specifically in production lines or integrate it in labeling machines. At this, a construction kit is provided, including device retainers, column stands and floor stands.**

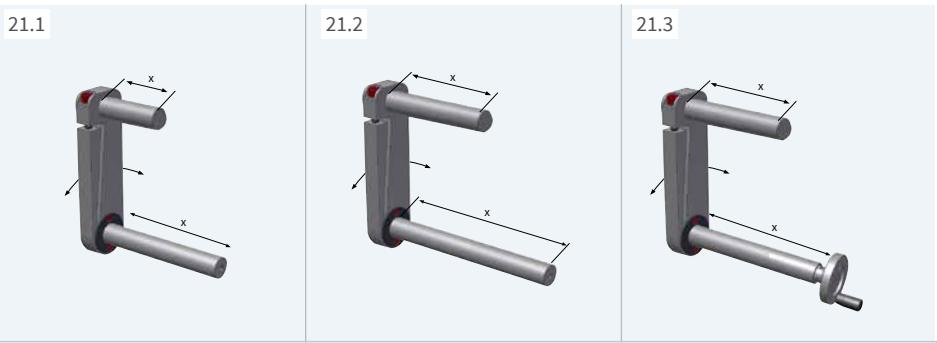
# Assembly aids

## Device retainers

The label dispenser is mounted on two columns and can therefore be installed either vertically or horizontally.

The dispensing angle can be adjusted using a tie rod. The dispensing position on the columns can also be moved.

The upper column is mounted to the tie rod. The lower one together with the bearing bush is mounted on a plate, a profile or on the column stand. The tie rod is swivel-mounted and is fixed with a clamping screw. Alternatively, the two columns can be mounted directly on a plate or profile. The dispensing angle (inclination) is not adjustable.



Technical data	Device retainer fixed	Device retainer moveable	Device retainer precisely adjustable
Orientation of assembly	vertical <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	horizontal <input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
axial	moveable <input type="checkbox"/>	<input checked="" type="checkbox"/>	-
	precisely adjustable <input type="checkbox"/>	-	<input checked="" type="checkbox"/>
Adjustable range	-	200 mm	135 mm

## Column stand 600

to assemble the label dispenser to a base plate or a conveyor belt. Position is set with the help of a hand crank.

Technical data	Column stand 600
Column length	mm 600
Adjustable track	mm 395
Column diameter	mm 30



## Floor stand 1632

primarily for labeling from the top on a product. It is moveable. On site, locking and setting is possible with the help of leveling feet. Preferred use is with applications in various production lines

Technical data	Floor stand 1632
Leveling feet, adjustability	mm $\pm 15$
Load	up to kg 50
Load at protrusion 300 mm	up to kg 25
Distance from lower label margin to the floor	mm 880 - 1,200
Column stand	mm 800
Adjustable track	mm 595
Weight	approx. kg 40



# Delivery program

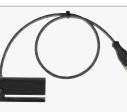
## Label dispensers L/R

Pos.	Part no.	Designation
1.1		<b>6130120</b> ROXI label dispenser 120 L
1.2		<b>6130180</b> ROXI label dispenser 180 L
1.3		<b>6130125</b> ROXI label dispenser 120 R
1.4		<b>6130185</b> ROXI label dispenser 180 R

**xxxxxx.250** if label dispenser provides additional options

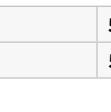
## Additional options for label dispensers

Pos.	Part no.	Designation
4.1		<b>6130296.xxx</b> Peel-off plate 120 L
		<b>6130297.xxx</b> Peel-off plate 180 L
4.2		<b>6130306.xxx</b> Peel-off plate 120 R
		<b>6130307.xxx</b> Peel-off plate 180 R
4.3		<b>6130298.xxx</b> Peel-off plate 120 L firmly angled 75°
		<b>6130299.xxx</b> Peel-off plate 180 L firmly angled 75°
4.4		<b>6130308.xxx</b> Peel-off plate 120 R firmly angled 75°
		<b>6130309</b> Peel-off plate 180 R firmly angled 75°
4.5		<b>6130304.xxx</b> Peel-off plate 120 L pivotable by -30°
		<b>6130305.xxx</b> Peel-off plate 180 L pivotable by -30°
4.6		<b>6130310.xxx</b> Peel-off plate 120 R pivotable by -30°
		<b>6130311.xxx</b> Peel-off plate 180 R pivotable by -30°
5		<b>6120069.xxx</b> Mounting rod 25 mm
		<b>5972418.xxx</b> Mounting rod 100 mm
		<b>5972419.xxx</b> Mounting rod 200 mm
		<b>5972420.xxx</b> Mounting rod 300 mm
		<b>6120067.xxx</b> Mounting rod 400 mm

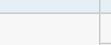
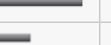
6.1		<b>6130291.xxx</b> CEON label sensor, retainer bar included
6.2		<b>6130292.xxx</b> Forked light barrier, retainer included

**xxxxxx.250** if label dispenser provides additional options

## Accessories

Pos.	Part no.	Designation
8.1		<b>6130294</b>
9.1		<b>6130293</b>
11.1		<b>5918948</b>
15		<b>6010560</b>
		Warning light, connecting USB cable 1 m included
16.1		<b>6010186</b>
16.2		<b>5907718.850</b>
17.1		<b>5955735</b>
17.2		<b>5955736</b>
		Unit R for compressed air regulation

## Tools for assembly

Pos.	Pos.	Designation
21.1		<b>5983405</b> Unit retainer 120 fixed
		<b>5983406</b> Unit retainer 180 fixed
21.2		<b>5983409</b> Unit retainer 120 moveable
		<b>5983410</b> Unit retainer 180 moveable
21.3		<b>5983413</b> Unit retainer 120 precisely adjustable
		<b>5983414</b> Unit retainer 180 precisely adjustable
21.4		<b>5971614</b> Tie rod
22.1		<b>5983421</b>
22.2		<b>5983425</b>
		1632 floor stand, column stand included

# Overview of cab products



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