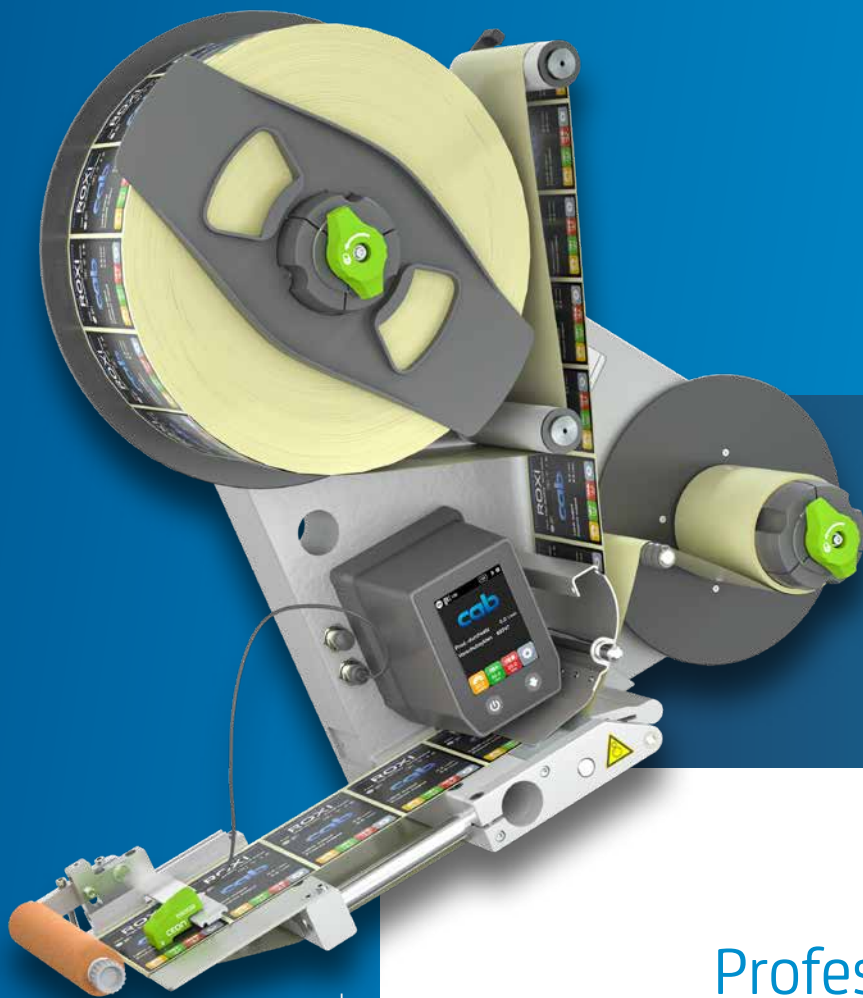


Status: 03/2025

**cab**  
*we identify more*



Label dispensers  
for industrial use

**ROXI**  
Made in Germany

Professional at best price

# ROXI label dispensers

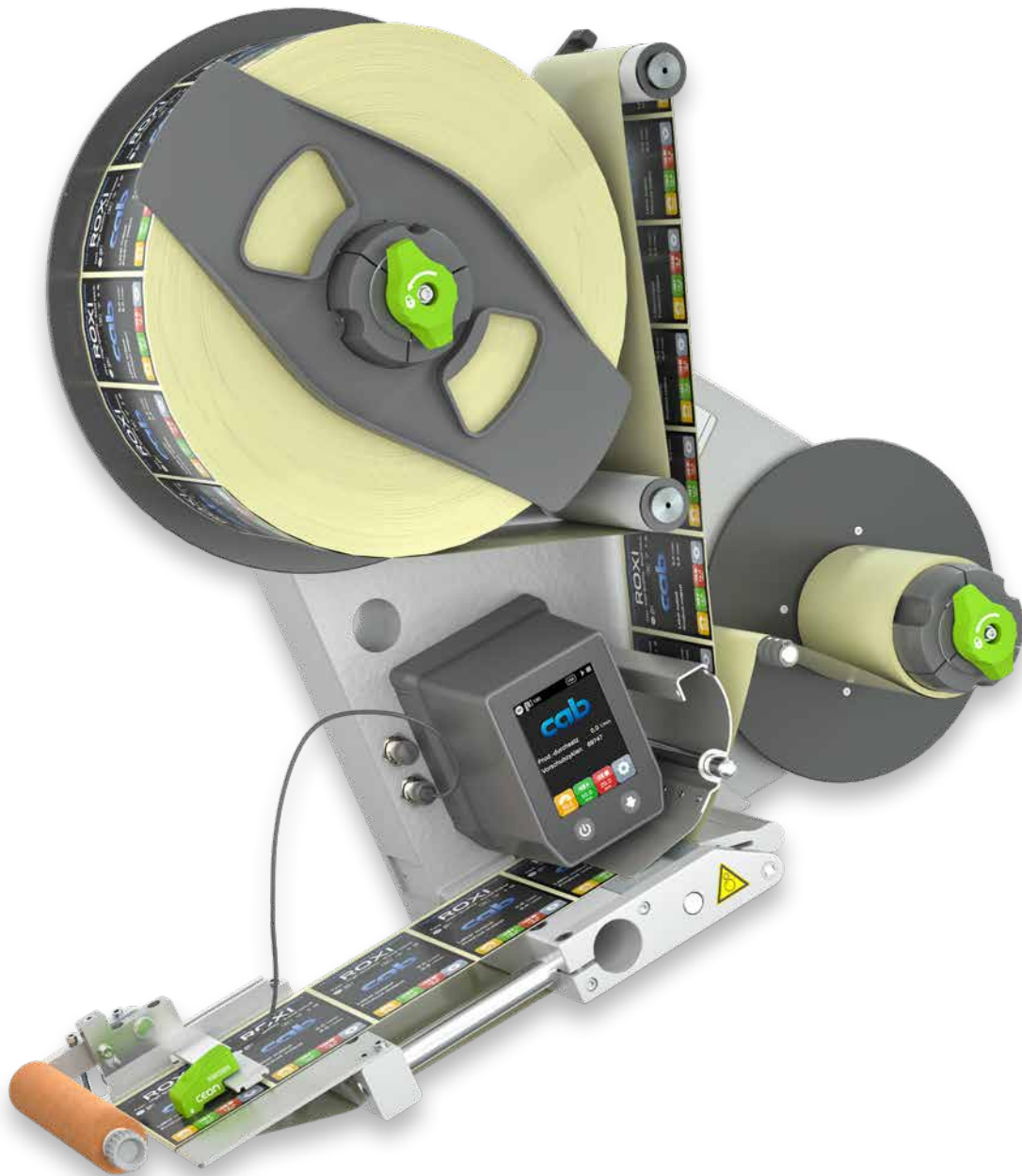
**Precise insert labeling**

**Solid construction, perfect in every way**

**Advanced electronics and software**

**Small price – great performance**

**A future-proof investment**



**Compact and slim design**

Easy to install into production lines

**Any assembly**

Vertical, horizontal, inclined, dispensing labels to the left or right

**High quality and reliability**

Tried and tested functional modules assembled Made in Germany

**Durable and easy to maintain**

Designed for continuous industrial use

Free firmware updates via Ethernet or USB interface

**Dynamic speed control**

Label web is fed automatically by a masterencoder (rotary or linear) in accordance with the speed of items on a conveyor.

**Safety guaranteed**

Certified by independently authorized testing labs

**Short setup times**

Quick and simple material changeover

**Useful accessories**

Columns, stands, connecting cables, and many others help with installation ready for use.

# Operation panel

**Intuitive and easy to operate**

**Rotatable in steps of 180°,  
depending on the installation**

**Unit configuration with the help of self-explanatory symbols on the user interface**



# Firmware

## Embedded Linux operating system



- Support 'out-of-the-box' of Open Source bundles and interfaces, such as FTP, SSL, Avahi/Zeroconf



- Regular updates for hotfixes and official CVE security patches
- Comprehensive release notes for each update

## Compatible with IXOR highspeed labeling head



- Same codebase as IXOR
- New IXOR features are automatically included in ROXI.
- Identical firmware file for both units

## Maintenance and diagnostics



- Web Interface
- Event log for tracking activities
- Diagnostics documents in standardized XML text format

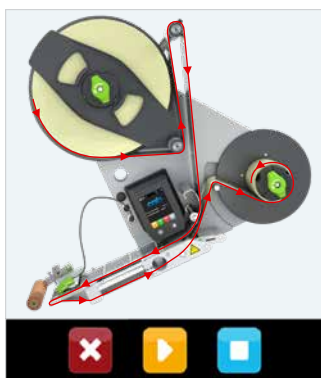
## Interfaces and user-specific features

	USB stick	Web Interface	FTP software
Access to entire documentation of a unit	✓	✓	✓
Backup and restore	✓	✓	✓
Configuration reading and import	✓	✓	✓
Firmware update	✓		✓



### VNC LAN / WLAN

Remote control by a PC, smartphone, tablet



### Feed path schemes

On display

## Upgrades

- Protocols such as MQTT as well as features like the masterencoder can be unlocked by key (online purchase).

## Remote support

- Diagnostics by service staff, using an existing customer network
- Special software oscilloscope, maximum resolution 1 ms, for unlimited use during production

## Integral Ethernet protocols for higher-level machine control systems



- MQTT, ModBus TCP, OPC UA  
Profinet in preparation, available from Oct. 2025



- Access via PLC and an industrial PC to parameters, I/O signals, error messages

## Redundancy

- Any number of pairs of label dispensers can be operated redundantly in an Ethernet network.
- While one dispenser actively applies labels onto items, another unit is on standby. In cases of a malfunction on an active unit (e.g. label web ending), the second one takes over immediately.
- It is ensured all items located between the units are labeled.

# Interfaces



- 1 **Main switch**
- 2 **Cold appliance socket**
- 3 **2 USB hosts**  
for a warning light, an external operation panel, USB / WLAN stick
- 4 **Ethernet**  
TCP/IP data transmission
- 5 **START**  
By signal, e.g. a product sensor
- 6 **SYNC**  
Label web is synchronized by a masterencoder (rotary or linear) to the speed of items on a conveyor.
- 7 **I/O**  
Compliant to IEC/EN 61131-2, type 1+3  
All inputs and outputs protect from reverse polarity.  
Outputs are also short-circuit proof.

### Digital inputs

Unit ON  
Pre-dispense  
Start dispensing  
Start lock  
Error reset  
Defined by user

### Digital PNP outputs

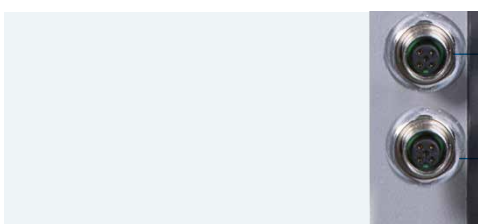
Unit ready  
Pre-dispense button pressed  
Stop label feed  
Label feed ON  
Label missing on liner  
End of label web  
Pre-warning to label web ending  
Error  
Defined by user

### Analog inputs

Speed  
Start delay  
Stop delay



- 8 **I/O status indication**  
Status display of all inputs and outputs  
Helpful with initial setup, especially when integrating a label dispenser into external control systems  
Inputs and outputs can be simulated or forced for testing purposes.

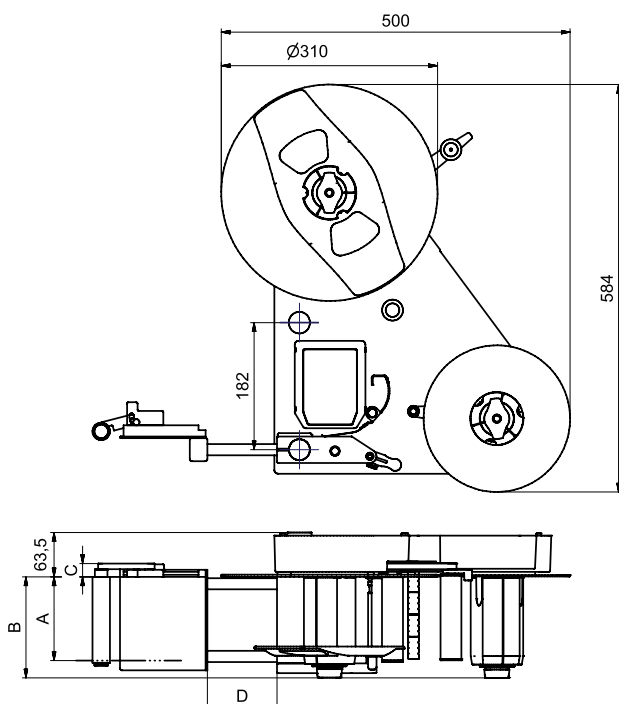


- 9 **PRINT & APPLY**  
Peripheral interface; Plugging a printer or controlling an applicator with power supply 24VDC, 2A
- 10 **STOP**  
Plugging a label sensor, optical or inductive detection

# Technical data

Label dispenser	Type	ROXI 120	ROXI 180
Label web speed	m/min max.	30	20
Installation		vertical / horizontal	
Direction to which labels are dispensed		L = to the left, R = to the right	
<b>Material<sup>1)</sup></b>			
Label	on a roll	Paper, synthetics PET, PE, PP, PVC, booklets	
	Width mm	10 - 116	10 - 176
	Length mm	10 - 6,000	
	Gap mm at least	2	
	Thickness mm	0.055 - 1.0	
Liner	Width mm	15 - 120	15 - 180
Roll	Weight kg max.	12	
Unwinder	Outside diameter mm	300	
	Core diameter mm	76	
	Winding	outside or inside	
Rewinder	Outside diameter mm	210	
	Core diameter mm	76	
<b>Label sensor</b>			
Distance to locating edge CEON	Detection of	label margins and materials ending	
	mm	9 - 62	9 - 94
	GAB 500-1 mm	7.5 - 17.5	
	GAB 500-2 mm	8	
<b>Operating data</b>			
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	
<b>Operation panel</b>			
	LED	ON / OFF	
LCD graphics display	Width x Height mm	54 x 70	
<b>Control</b>			
		Pre-warning to label web ending, broken liner torque, temperature, voltage	

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



Label dispenser	Dimension A mm	Dimension B mm	Weight kg
ROXI 120	124	145	12
ROXI 180	186	205	13

Demand module	Dimension C mm	Mounting rod	Dimension D mm
SP	19	MS 25	25
SPE	24	MS 100	100
SPFA	19	MS 200	200
		MS 300	300
		MS 400	400

Scopes of delivery, designs and technical data correspond to the date of this publication. They are subject to change. Catalogue data do not represent any warranty or guarantee.

# Demand units

## Modular adaptation in four steps

### 1. Demand module

A label web can be inserted from the side. Individual parts and component assemblies go with units L or R. This enables modules be configured as required.

### 2. Wipe-down roller or brush

Labels when attached insert are precisely applied onto items using a roller or a brush. These can be precisely tailored to an item for optimum labeling.

### 3. Mounting rods

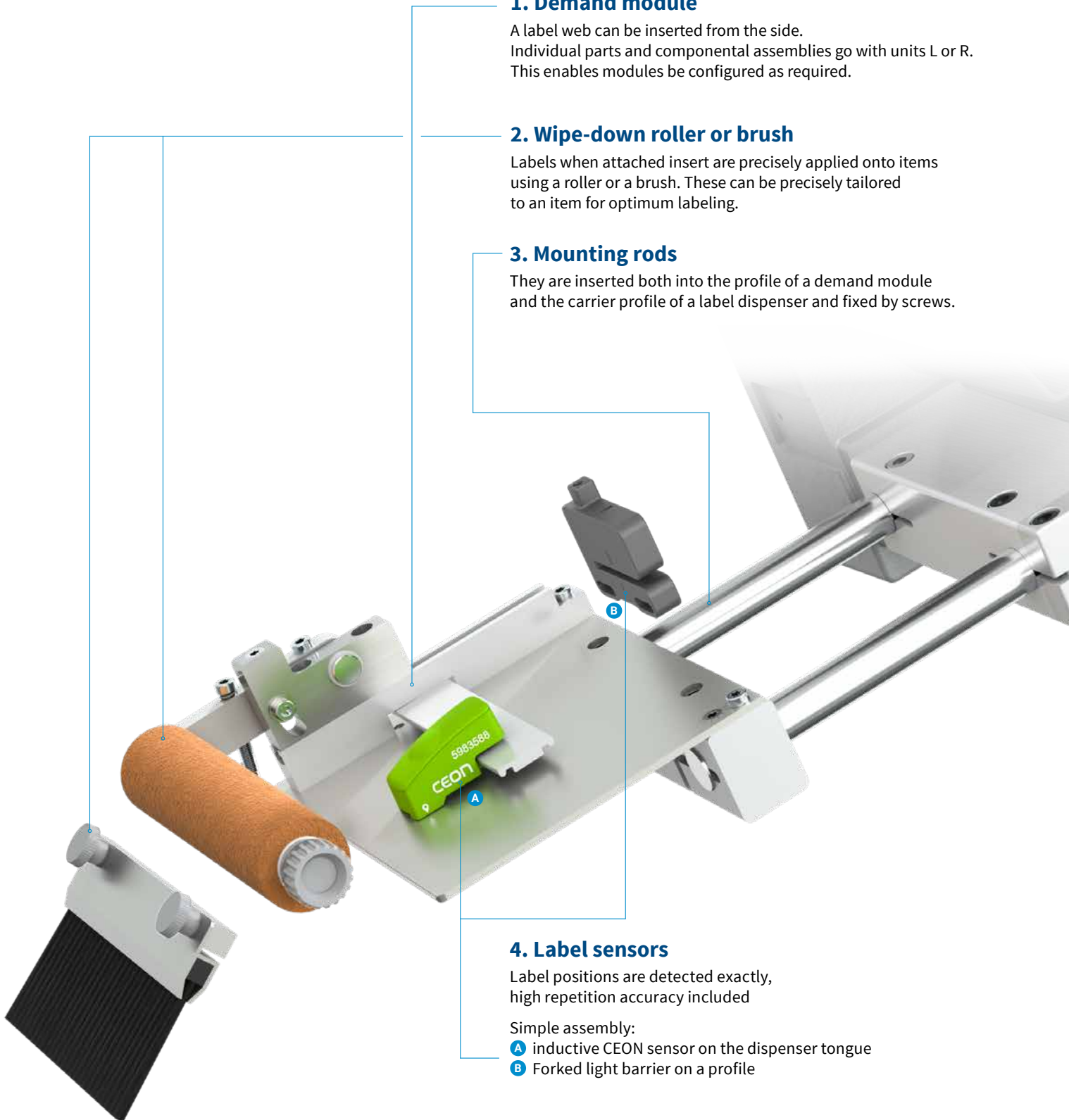
They are inserted both into the profile of a demand module and the carrier profile of a label dispenser and fixed by screws.

### 4. Label sensors

Label positions are detected exactly, high repetition accuracy included

Simple assembly:

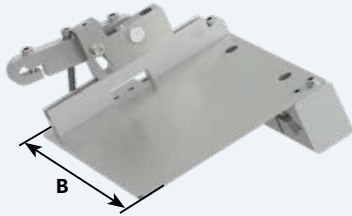
- A** inductive CEON sensor on the dispenser tongue
- B** Forked light barrier on a profile



# Demand modules

Head units consist of a dispenser tongue, a guide and an adjustable carriage. They are the same for all all types.

2.1

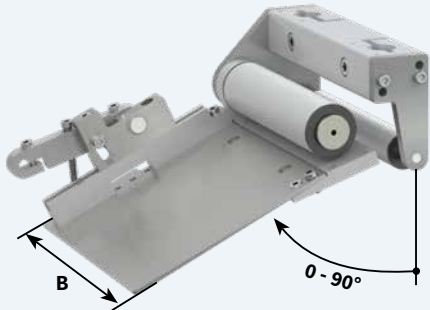


## SP demand modules

They are attached to the two mounting rods. The path of a label web can be aligned during labeling. Forked light barriers and CEON label sensors are fixed directly onto the demand module.

	Dispenser tongue Dimension B mm	Direction to which labels are dispensed	
		Type left	Type right
SP demand module	62	SP 62L	SP 62R
	124	SP 124L	SP 124R
	186	SP 186L	SP 186R

2.2

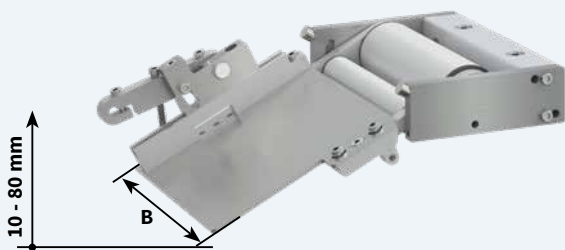


## SPE demand modules adjustable

For better operation or when installation space is limited, a label dispenser may be rotated in vertical direction using a demand module adjustable continuously from 0° to 90°.

	Dispenser tongue Dimension B mm	Direction to which labels are dispensed	
		Type left	Type right
SPE demand module	62	SPE 62L	SPE 62R
	124	SPE 124L	SPE 124R
	186	SPE 186L	SPE 186R

2.3



## SPFA demand modules spring-forced, pivotable

When labeling insert onto curved surfaces, demand modules may adapt to the surfaces and heights of items by spring force. Adjustable pivoting heights are 10 mm to 80 mm

	Dispenser tongue Dimension B mm	Direction to which labels are dispensed	
		Type left	Type right
SPFA demand module	62	SPFA 62L	SPFA 62R
	124	SPFA 124L	SPFA 124R
	186	SPFA 186L	SPFA 186R

2.4

in preparation

## SPEA demand modules electrically pivotable

A dispenser tongue can be pivoted electrically when dealing with sensitive surfaces or when labeling onto cylindrical items or into pockets. Pivotal heights are 10 mm to 80 mm

	Dispenser tongue Dimension B mm	Direction to which labels are dispensed	
		Type left	Type right
SPEA demand module	62	SPEA 62L	SPEA 62R
	124	SPEA 124L	SPEA 124R
	186	SPEA 186L	SPEA 186R

2.5

in preparation

## ARE wipe-down rollers electrically pivotable

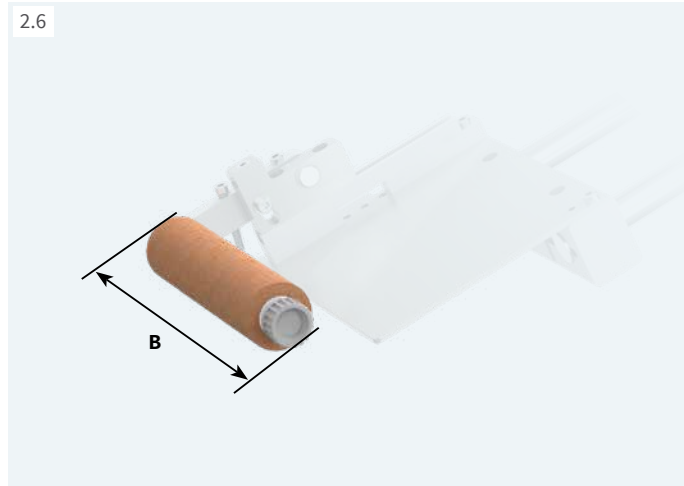
A wipe-down roller can be pivoted electrically when dealing with sensitive surfaces or when labeling onto cylindrical items or into pockets. Pivotal as high as 10 mm

	Dispenser tongue Dimension B mm	Direction to which labels are dispensed	
		Type left	Type right
ARE wipe-down roller	62	ARE 62L	ARE 62R
	124	ARE 124L	ARE 124R
	186	ARE 186L	ARE 186R



# Wipe-down rollers and brushes

A roller and a brush can each be precisely tailored to an item during operation. They are attached by thumb screws and may be replaced without additional tools when worn.

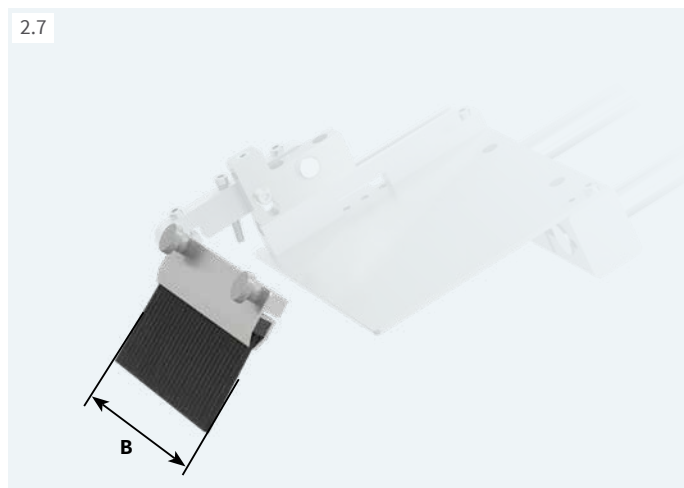


## AR wipe-down rollers

Adjustments:

1. Distances of 8 mm to 30 mm to a peel-off plate
2. Lower end position to an item
3. Wipe-down force onto an item by spring preload
4. Roller positions screw-fixed on SPFA, SPEA demand modules

	Width B mm	Type
AR wipe-down roller	62	AR 62
	124	AR 124
	186	AR 186



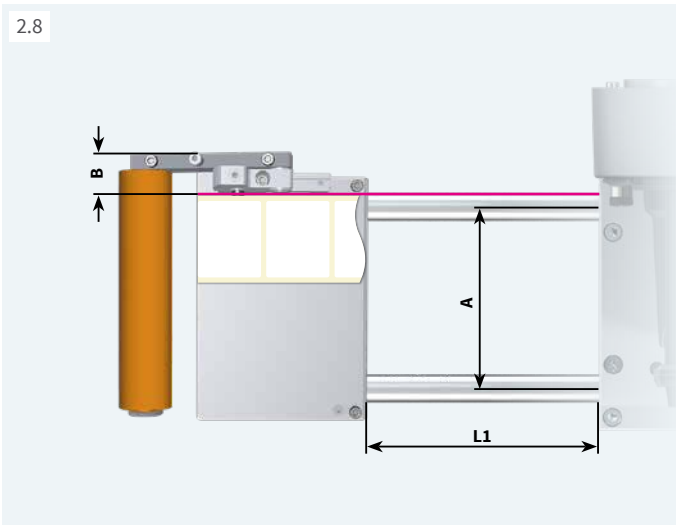
## AB wipe-down brushes

Adjustments:

1. Distances of 20 mm to 50 mm to a peel-off plate
2. Angles of 15° to 45° to a peel-off plate
3. Wipe-down force by vertical shift to an item

	Width B mm	Type
AB wipe-down brush	62	AB 62
	124	AB 124
	186	AB 186

# Mounting rods



## MS mounting rods

Stainless steel, diameter 16 mm

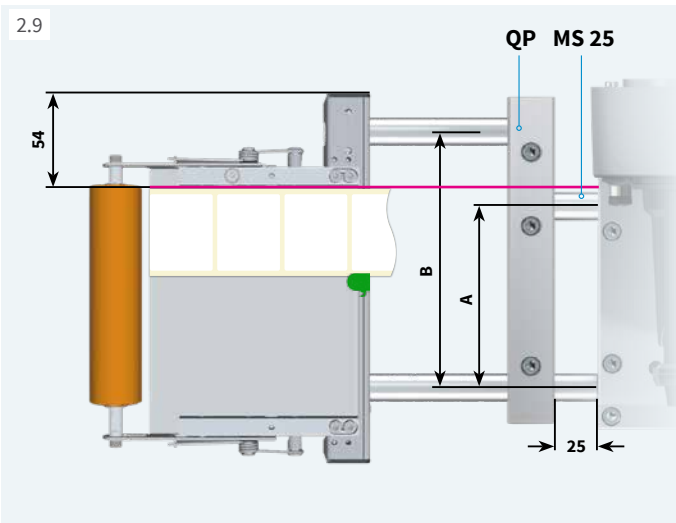
They are inserted both into the profile of a demand module and the carrier profile of a label dispenser and fixed by screws.

	Length L1 mm	Type
<b>MS mounting rod</b>	25	MS 25
	100	MS 100
	200	MS 200
	300	MS 300
	400	MS 400

Further lengths upon request

Demand module	Dimension B mm	Distance A	Dimension A mm
SP	19	SPxx 62 demand module	104
SPE	24	SPxx 124 demand module	104
SPFA	19	SPxx 186 demand module	166

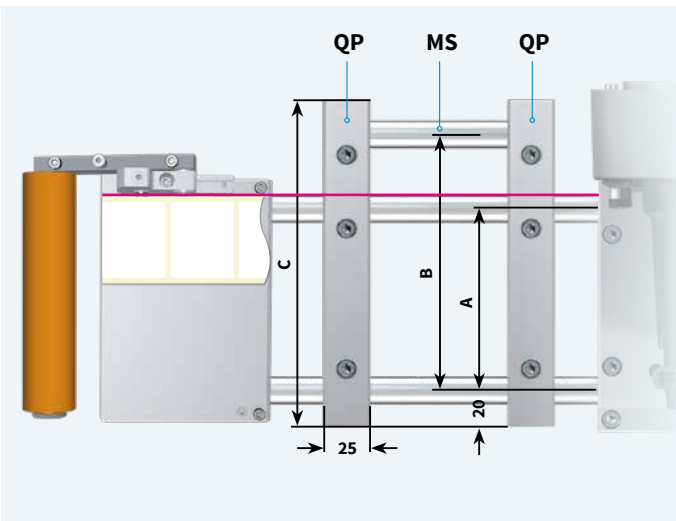
# Cross-section profiles



## Assembly of IXOR peel-off plates and wipe-down rollers

Dimension A is adjusted to B using a QP cross-section profile and MS 25 mounting rods.

	Dimension A mm	Dimension B mm	Profile Type	Mounting rod Type
Peel-off plate 62	104	146	QP 186	MS 25
Peel-off plate 124	104	146	QP 186	MS 25
Peel-off plate 186	166	208	QP 248	MS 25



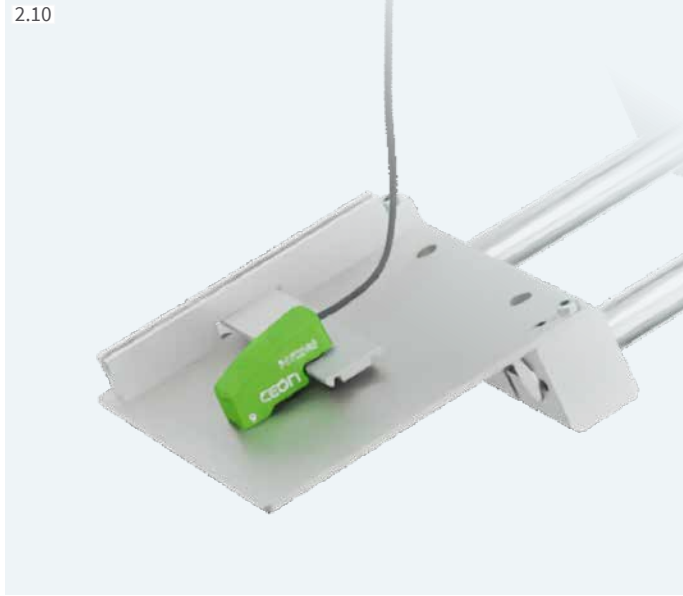
A third MS mounting rod and further QP cross-section profiles may be added for reinforcing long mounting rods or attaching accessories.

	Dimension A mm	Dimension B mm	Dimension C mm	Type
<b>QP profile</b>	104	146	186	QP 186
	186	208	248	QP 248

Length of mounting rod as required

# Sensors

A GAB 500-1 forked light barrier and a CEON label sensor both link to a label dispenser via an intelligent communication interface. There is automatic teach on the operation panel. It takes no more than two labels to finish calibration.

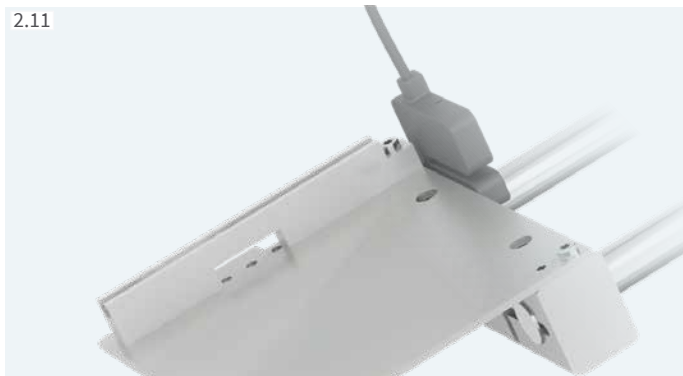


### CEON label sensor, retainer bars included

A ceramic probe is used to inductively detect the difference in height from a liner to the top of a label.

For sensor accommodation, a retainer bar is attached in conjunction with a spacer precisely and torsion-proof to a dispenser tongue. Three lengths are included on delivery.

Technical data		CEON label sensor
Functional method		inductive, using a ceramic probe
Material Label		Paper, synthetics, opaque or transparent
Liner		opaque, transmissive or transparent
Label thickness	mm	0.05 - 1.0
Label gap	mm	>2
Repetition accuracy	mm	± 0.05
Range of adjustable distance to the locating edge	CEON 31 mm	9 - 31
	CEON 62 mm	9 - 62
	CEON 93 mm	9 - 94
Round label diameter	mm max.	180



### GAB 500-1 forked light barrier in preparation

Attached directly to the head unit of a demand module

Technical data		GAB 500-1 forked light barrier
Functional method		optical, transmitter receiver
Material Label		Paper, synthetics, opaque
Liner		transmissive, transparent
Label thickness	mm	0.05 - 1.0
Label gap	mm	>2
Repetition accuracy	mm	± 0.05
Range of adjustable distance to the locating edge	mm	7.5 - 17.5
Round label diameter	mm max.	35



### GAB 500-2 forked light barrier

Attached directly to a ROXI chassis

Technical data		GAB 500-2 forked light barrier
Functional method		optical, transmitter receiver
Material Label		Paper, synthetics, opaque
Liner		transmissive, transparent
Label thickness	mm	0.05 - 1.0
Label gap	mm	>2
Repetition accuracy	mm	± 0.05
Range of adjustable distance to the locating edge	mm	8.0
Round label diameter	mm max.	16

## Accessories

3.1



### Product sensor

Applying a label is triggered as soon as an item has been detected.  
200 mm maximum detectable track

Connecting cable M12-M8 included, 5 pins, a-coded, 2.5 m

3.2



### Rotary encoder

Incremental, resolution 0.1 mm

Connecting cable M12, 5 pins, a-coded, 2,5 m, tracked A and B  
for automatically synchronizing the speed of labeling

Unlocked by key

3.3



### Friction wheel

Circumference 200 mm, diameter 63.7 mm

3.4



### Retainer

It presses a friction wheel by spring force onto a conveyor.  
Assembly to a conveyor requires a mounting bracket.

3.5



### I/O interface cable, wire-end-ferruled

M12, 17 pins, 5 m

3.6



### Warning light

Plug to a label dispenser

**Red** Collective error, e.g. end of label web, label web torn

**Yellow** Pre-warning to label web ending

**Green** Unit ready

Connecting USB cable included, 1 m

3.7



### External operation panel

Same functionality as on a label dispenser

Users are free to decide whether to operate an external panel  
or the one integral to a dispenser unit.

① **USB slot**, for configuration or firmware transfer

② **LED**: Power ON

3.8



### Connecting USB cable

Lengths are 1.8 m, 3 m, 5 m (11m, 16 m upon request)

## Assembly assistance

**Label dispensers may be installed user-specific into production lines or labeling systems. Retainers, a column stand and a floor stand make up a construction kit.**



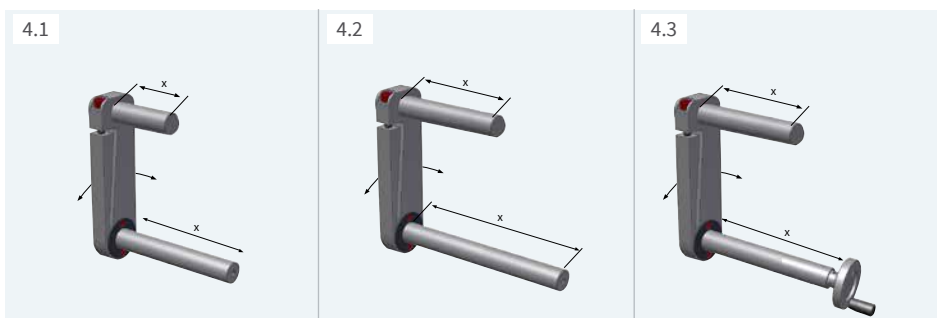
# Unit retainers

**Mounted on two columns, a label dispenser may be installed in vertical or horizontal direction.**

**Dispensing angles are set by a tie rod. In addition, the spot of dispensing a label can be aligned on the columns.**

The upper column is attached to the tie rod, the lower one along with a bearing bush to a plate, a profile or a column stand. Swivel-mounted, the tie rod is fixed by a clamping screw.

Both columns may also be attached directly to a plate or a profile. At this, the dispensing angle (inclination) is not adjustable.



Technical data		Unit retainer fixed	Unit retainer moveable	Unit retainer fine adjustable
Installation	vertical	■	■	■
	horizontal	■	-	■
On axis	moveable	-	■	-
	fine adjustable	-	-	■
Range of adjustability	mm	-	200	135

# Stands

## Column stand 600

Assembly of a label dispenser to a base plate or a conveyor  
Position setting using a hand crank

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



## Floor stand 1632

Primarily suggested when applying labels from the top  
A mobile assistance, it can be locked and set on-site by leveling feet.  
Suitable when switching between production lines

Technical data		Floor stand 1632
Leveling feet	adjustable by mm	± 15
Load	kg max.	50
Load at offset 300 mm	kg max.	25
Distance from lower margin of a label to the floor	mm	880 - 1,200
Column stand	mm	800
Adjustable track	mm	595
Weight	kg approx.	40



# Delivery program

## Label dispensers

### Labels provided to the left

Pos.	Item no.	Designation
1.1	<b>6130120</b>	ROXI label dispenser 120 L
1.2	<b>6130180</b>	ROXI label dispenser 180 L

**xxxxxxx.250 label dispenser,  
additional software unlocked**


### Labels provided to the right

Pos.	Item no.	Designation
1.1	<b>6130125</b>	ROXI label dispenser 120 R
1.2	<b>6130185</b>	ROXI label dispenser 180 R

**xxxxxxx.250 label dispenser,  
additional software unlocked**

Scope of delivery
ROXI label dispenser Knowledge Base

**Label dispensers with demand units  
are delivered unassembled in one package.**

Provided online
 <p>Assembly instructions DE / EN / FR Configuration manuals DE / EN / FR Service manuals DE / EN Spare parts lists DE / EN Programming manual EN</p> <p><a href="https://setup.cab.de/en">https://setup.cab.de/en</a></p>

## Additional software

### Labels provided to the left or right

**If order implies additional software been unlocked  
ex-factory, item numbers are added by .250.  
In cases of separate delivery, .001 is added.**

Pos.	Item no.	Designation
1.3	<b>5581022.xxx</b>	FQ MQTT FM ModBus FP Profinet FO OPC UA Server
1.4	<b>5581023.xxx</b>	FR MQTT redundancy
1.5	<b>5581020.xxx</b>	ME Masterencoder

**xxxxxxx.250 label dispenser,  
additional software unlocked**






See current data also on the Internet:  
[www.cab.de/en/roxi](http://www.cab.de/en/roxi)

# Delivery program




## Demand units

If order implies components of demand units been assembled ex-factory, item numbers are added by .250. In cases of separate delivery, .001 is added.

### Labels provided to the left




Pos.		Item no.	Designation
2.1		<b>6130466.xxx</b>	SP 62L demand module
		<b>6130296.xxx</b>	SP 124L demand module
		<b>6130297.xxx</b>	SP 186L demand module
2.2		<b>6130467.xxx</b>	SPE 62L demand module
		<b>6130484.xxx</b>	SPE 124L demand module
		<b>6130485.xxx</b>	SPE 186L demand module
2.3		<b>6130468.xxx</b>	SPFA 62L demand module
		<b>6130304.xxx</b>	SPFA 124L demand module
		<b>6130553.xxx</b>	SPFA 186L demand module
2.4	in preparation	<b>6130478.xxx</b>	SPEA 62L demand module
		<b>6130479.xxx</b>	SPEA 124L demand module
		<b>6130555.xxx</b>	SPEA 186L demand module
2.5	in preparation	<b>6130531.xxx</b>	ARE 62L wipe-down roller
		<b>6130532.xxx</b>	ARE 124L wipe-down roller
		<b>6130533.xxx</b>	ARE 186L wipe-down roller

### Labels provided to the right

Pos.		Item no.	Designation
2.1		<b>6130469.xxx</b>	SP 62R demand module
		<b>6130306.xxx</b>	SP 124R demand module
		<b>6130307.xxx</b>	SP 186R demand module
2.2		<b>6130476.xxx</b>	SPE 62R demand module
		<b>6130486.xxx</b>	SPE 124R demand module
		<b>6130487.xxx</b>	SPE 186R demand module
2.3		<b>6130477.xxx</b>	SPFA 62R demand module
		<b>6130310.xxx</b>	SPFA 124R demand module
		<b>6130554.xxx</b>	SPFA 186R demand module
2.4	in preparation	<b>6130481.xxx</b>	SPEA 62R demand module
		<b>6130482.xxx</b>	SPEA 124R demand module
		<b>6130556.xxx</b>	SPEA 186R demand module
2.5	in preparation	<b>6130536.xxx</b>	ARE 62R wipe-down roller
		<b>6130537.xxx</b>	ARE 124R wipe-down roller
		<b>6130538.xxx</b>	ARE 186R wipe-down roller


### Labels provided to the left or right



2.6		<b>6130460.xxx</b>	AR 62 wipe-down roller
		<b>6130461.xxx</b>	AR 124 wipe-down roller
		<b>6130462.xxx</b>	AR 186 wipe-down roller
2.7		<b>6130463.xxx</b>	AB 62 wipe-down brush
		<b>6130464.xxx</b>	AB 124 wipe-down brush
		<b>6130551.xxx</b>	AB 186 wipe-down brush
2.8		<b>6120069.xxx</b>	MS 25 mounting rod
		<b>5972418.xxx</b>	MS 100 mounting rod
		<b>5972419.xxx</b>	MS 200 mounting rod
		<b>5972420.xxx</b>	MS 300 mounting rod
		<b>6120067.xxx</b>	MS 400 mounting rod
2.9		<b>6130520.xxx</b>	QP 186 cross-section profile
		<b>6130521.xxx</b>	QP 248 cross-section profile

2.10		<b>6130291.xxx</b>	CEON label sensor, retainer bars included
2.11		<b>6130452.xxx</b>	GAB 500-1 forked light barrier
2.12		<b>5918670.xxx</b>	GAB 500-2 forked light barrier

**xxxxxxx.250 demand module assembled  
.001 individually packed  
resp. spare part**

## Wear parts









Pos.		Item no.	Designation
2.13		<b>6130560.001</b>	Wipe-down roller 62
		<b>6130557.001</b>	Wipe-down roller 124
		<b>6130563.001</b>	Wipe-down roller 186

Pos.		Item no.	Designation
2.14		<b>6130572.001</b>	Wipe-down brush 62
		<b>6130580.001</b>	Wipe-down brush 124
		<b>6130573.001</b>	Wipe-down brush 186
2.15		<b>5983437.001</b>	CEON probe




# Delivery program

## Accessories

Pos.		Item no.	Designation
3.1		<b>6130294</b>	Product sensor 200 mm maximum detectable track, connecting cable 2.5 m included
3.2		<b>5918979.850</b>	Rotary encoder, connecting cable 2.5 m included
3.3		<b>5918981.850</b>	Friction wheel
3.4		<b>5918980.850</b>	Retainer
3.5		<b>5918948.850</b>	I/O interface cable, wire-end-ferruled, M12, 17 pins, 5 m
3.6		<b>6010560</b>	Warning light, connecting USB cable 1 m included
3.7		<b>6010186</b>	External operation panel
3.8		<b>5907718.850</b>	Connecting USB cable, 1.8 m
		<b>5907730.850</b>	Connecting USB cable, 3 m
		<b>5907750.850</b>	Connecting USB cable, 5 m

## Assembly assistance

Pos.		Item no.	Designation
4.1		<b>5983405.850</b>	Unit retainer 120 fixed
		<b>5983406.850</b>	Unit retainer 180 fixed
4.2		<b>5983409.850</b>	Unit retainer 120 moveable
		<b>5983410.850</b>	Unit retainer 180 moveable
4.3		<b>5983413.850</b>	Unit retainer 120 fine adjustable
		<b>5983414.850</b>	Unit retainer 180 fine adjustable
4.4		<b>5971614.850</b>	Tie rod
4.5		<b>5983421.850</b>	Column stand 600
4.6		<b>5983425</b>	Floor stand 1632, column stand included

# Overview of cab products

Label printers  
**MACH1, MACH2**



Label printers  
**EOS 2**



Label printers  
**EOS 5**



Label printers  
**MACH 4S**



Label printers  
**SQUIX 2**



Label printers  
**SQUIX 4**



Label printers  
**SQUIX 6.3**



Label printers  
**SQUIX 8.3**



Label printers  
**XD Q double-sided**



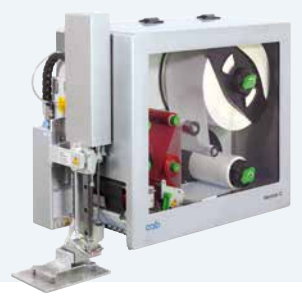
Label printers  
**XC two-colored**



Print and apply systems  
**HERMES Q**



Print and apply systems  
**Hermes C two-colored**



Tube labeling systems  
**AXON 1**



Print modules  
**PX Q**



Labels and ribbons



Label software  
**cablabel S3**



Label dispensers  
**HS, VS**



Labeling heads  
**IXOR**



Marking lasers  
**XENO 4**



Laser marking systems



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Niedermodern  
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[www.cab.de/fr](http://www.cab.de/fr)

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