

Edition 2.0



IXOR
Made in Germany

Highlights

- Labeling head driven by a servo motor
- Pre-printed labels can be fast and accurately applied on products or packaging.
- Modular construction kit
- Chassis depth 54 mm for installation in labeling machines
- Intuitive smartphone-like user navigation
- WLAN interface
- Working widths 124 mm to 310 mm
- Processing of label reels up to 310 mm (optionally 410 mm) outer diameter

Type overview



1.1 Labeling head 124 L
vertical mounting
2.1 Unwinder D310 V 124 L



1.1 Labeling head 124 R
vertical mounting
2.1 Unwinder D310 V 124 R



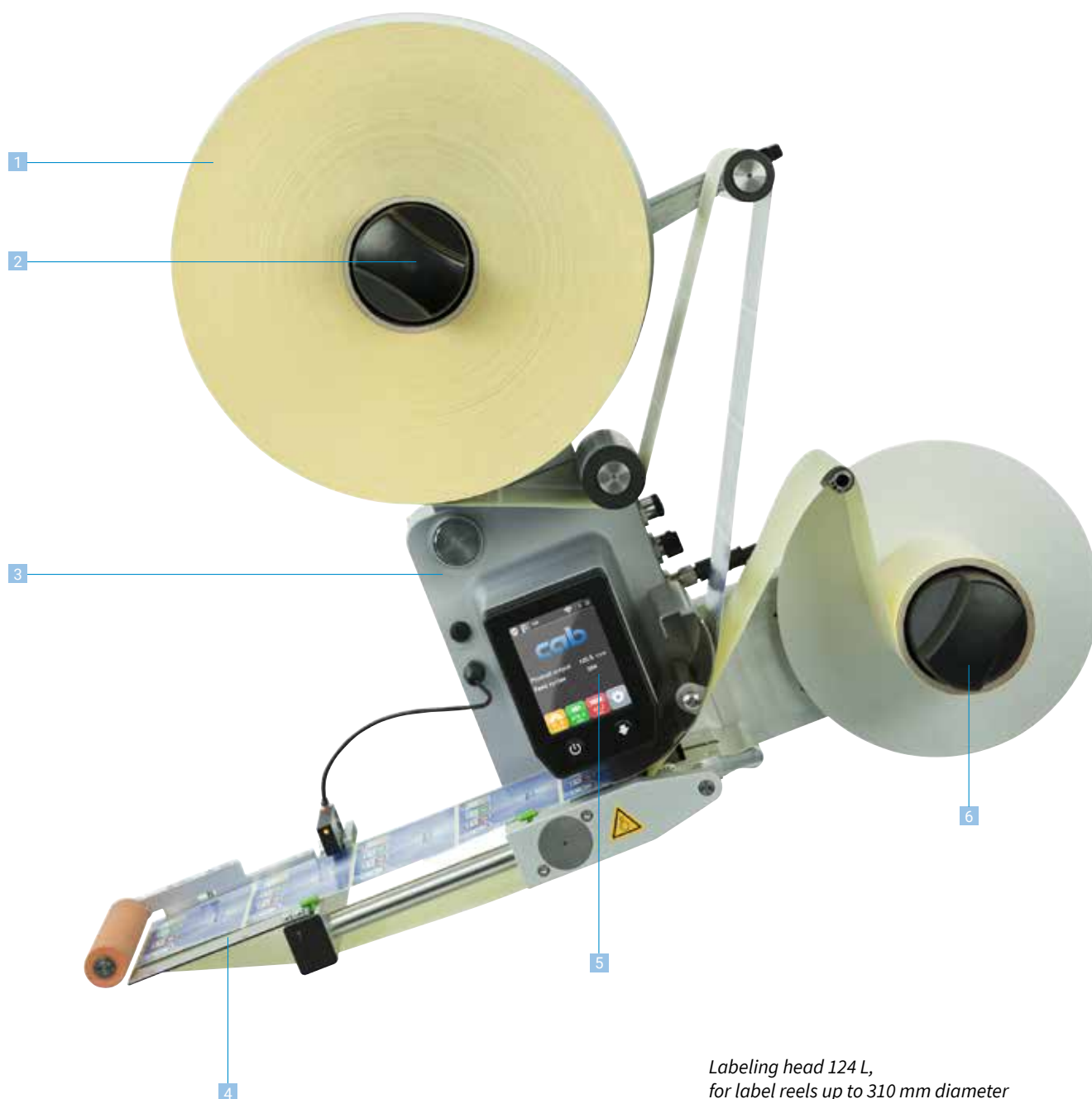
1.1 Labeling head 124 L
vertical mounting
2.2 Unwinder D410 V 124 L



1.3 Labeling head 186 L
horizontal mounting
2.2 Unwinder D410 H 186 L

All information on scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change. The data provided in the catalog do not represent any warranty or guarantee. For current data see website www.cab.de/en/ixor

Technical details



*Labeling head 124 L,
for label reels up to 310 mm diameter*

1 2.1, 2.2 Unwinder

To accommodate label reels up to 310 (optionally 410) mm outer diameter. Due to the swing lever and an integrated brake mechanism consistent label web tension is achieved.

2 Reel holder

By turning the handle, the core of the label reel is tightened and released again.

3 1.1, 1.2, 1.3, 1.4 Basic unit

Made of cast aluminum. All components are mounted on it. It possesses protection class IP66, NEMA 250 type 12. Also included is the drive unit with a highly dynamic and high-torque servo motor.

4 2.8, 2.9, 2.10 Peel edge

Due to the modular construction kit the peel edge can be individually configured.

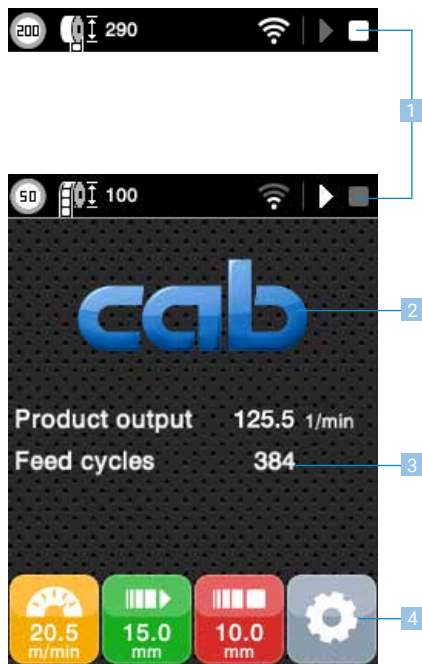
5 Graphic display

3.5" LCD color display with touch function. In case of overhead mounting the display can be rotated 180°.

6 2.5, 2.6 Rewinder

When the labels are dispensed the liner is rewound. With the swing lever and an integrated coupling the liner is kept under constant tension next to the drive roller.

Operation panel



Home screen

1 Status bar

- Display of the speed version
- Display of the label winding
- Display of the current label reel diameter
- WiFi signal strength
- State of the start and stop signal

2 Operational and warning messages

In alternation with cab logo

3 Counter and diagnostic display

To be configured according to application needs

4 Quick menu

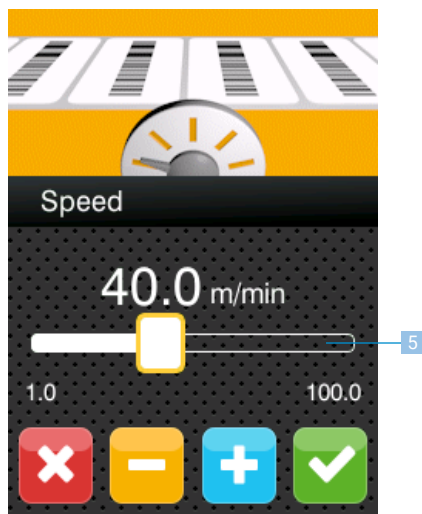
For fast access to functions

Pressing briefly

- Speed
- Start delay
- Stop delay
- Jump to menu

Pressing for at least 3 seconds

- Masterencoder test
- Wizard for start sensor compensation
- AutoTeach function label sensor
- Password login



Quick menu

For comfortable editing of values. Quick adjustment by slider, precise adjustment with button:

5 Speed

Adapting the labeling speed

6 Start delay

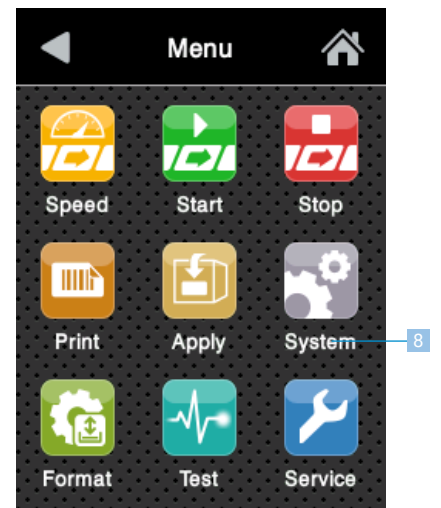
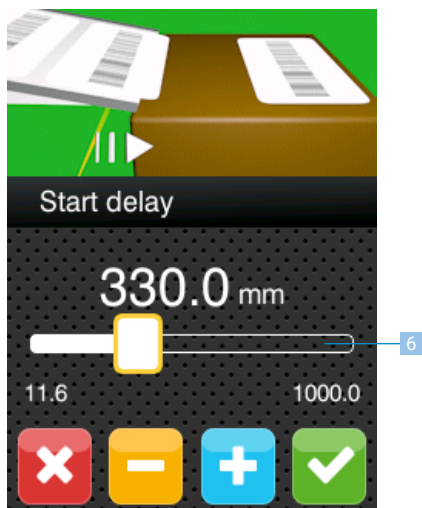
Changing the position of the label on the product

7 Stop delay

Adjusting the stop position of the label on the peel edge

8 Menu selection

Via icons (see page 5)



Software functions

Menu icons in detail



Label speed
Including synchronization
with product speed

SPEED



**Position of the label
on the product**
Including multi-labeling,
start condition

START



**Position of the label
on the peel edge**
Including detection of
missing labels on the liner,
stop condition

STOP



Print settings
To control optional printers;
printing while labels are in motion
or not moving

PRINT



Transfer settings
To control optional label transfer units,
such as applicator, air-jet box, etc.

APPLY



System settings
Display, language,
units inch/metric,
pre-warning to end of label web

SYSTEM



Storage of customized configurations
Up to 100 formats,
backup to PC possible

FORMAT



Simulation and testing
Display and setting of inputs
and outputs for service

TEST



Service tools
Maintenance assistant, diagnostics
and digital documentation including
video tutorials

SERVICE

Sub menu with more than 150 functions



and
further

I/O test

Status display of all inputs and outputs. Ideally suited
as an aid in case of initial operation, particularly when
the labeling head is integrated in external controllers.

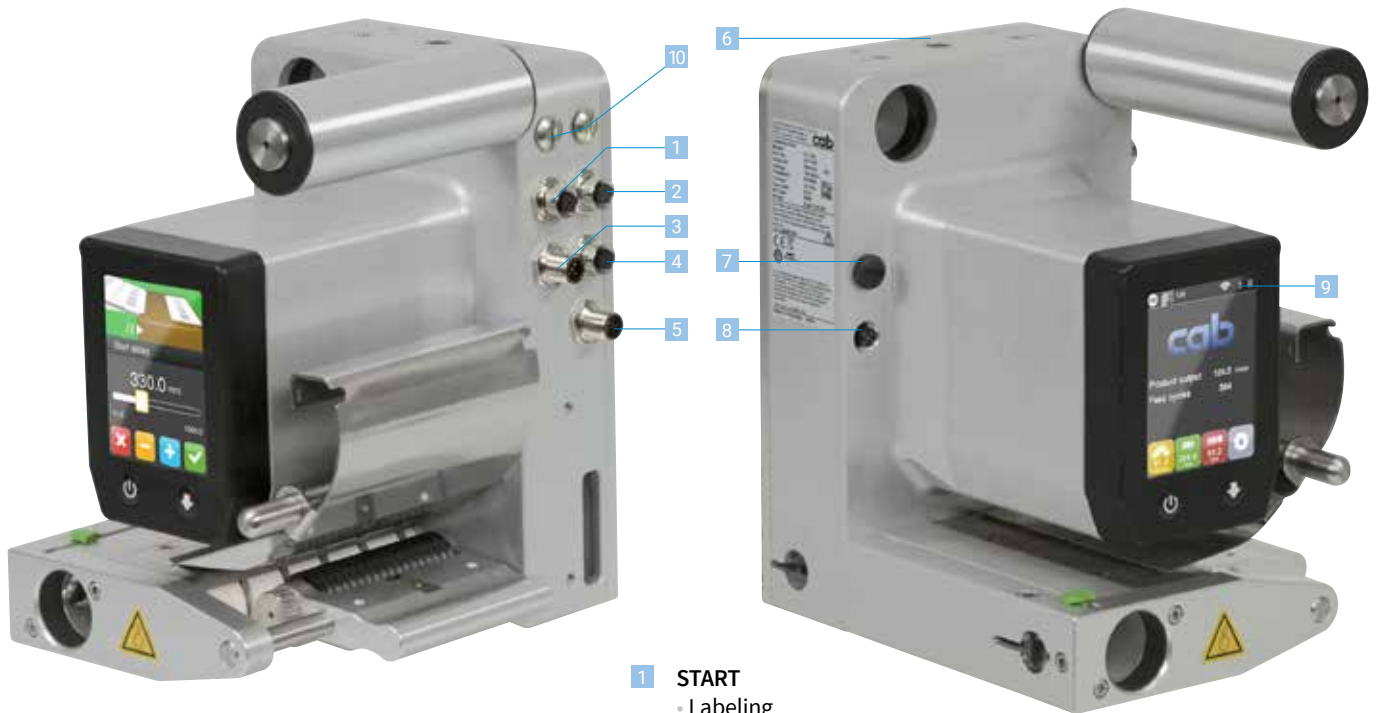
I/O-Test	
Inputs	Outputs
<input type="checkbox"/> FEED Manual label feed	<input type="checkbox"/> BTN_FEED Button FEED press
<input checked="" type="checkbox"/> START Start labeling	<input type="checkbox"/> FEEDING Label feeding
<input type="checkbox"/> LOCK START is locked	<input type="checkbox"/> PRT Start print
<input type="checkbox"/> STOP Stop label feeding	<input checked="" type="checkbox"/> READY Ready to start
<input type="checkbox"/> DIM_IN Diminish. label reel	<input type="checkbox"/> DIM Diminishing label re
<input type="checkbox"/> END_IN End of label reel	<input type="checkbox"/> END End of label reel
<input checked="" type="checkbox"/> ON ON/OFF by input	<input type="checkbox"/> NO_LABEL Missing label
<input checked="" type="checkbox"/> RESET Reset error	<input type="checkbox"/> ERROR Stopped by error

Video tutorials

Short video clips explain the functions of your labeling head:
how to insert the label web, adjust the brake, exchange and adjust
the back-pressure roller, etc. To be watched directly on the display.



Interfaces



1 START

- Labeling

2 I/O interface

Digital inputs

- Pre-dispensing
- Start labeling
- Lock start labeling
- Error reset
- Labeling device ON
- User-defined

Analog inputs

- Speed
- Start delay
- Stop delay

3 SYNC

- Synchronization of labeling speed and product speed

4 APPLY

Inputs

- Transfer unit in home position
- Transfer unit in working position
- Printer busy

Outputs

- Transfer unit
- Blowing off the label
- Start printer

5 POWER

- Power supply

6 END/DIM

Inputs

- End of label reel
- Diminishing label reel

7 PRINT

Input

- Printer busy

Outputs

- Start printer
- Start transfer unit

8 STOP

Input

- Stop signal of label sensor

Output

- Teach signal for label sensor

9 WLAN

10 Interface extension, for example serial or LAN (option)



Technical data

Labeling head			Working width 124 mm	Working width 186 mm	Working width 248 mm	Working width 310 mm
Power data						
Label web speed	up to m/min up to ipm	25, 50, 100, 200 - depending on device type 1,000 / 2,000 / 4,000 / 8,000 - depending on device type				
Performance	up to labels/min	2,400				
Material						
Labels on reel		Paper, plastics PET, PE, PP, PVC				
Thickness mm / weight g/m²		0.055 - 1 / 60 - 700				
Width Labels ¹⁾	up to mm	120	182	244	306	
Liner	up to mm	124	186	248	310	
Label length	mm	5-6000				
Supply roll	Outer diameter	mm	310/410			410
	Core diameter	mm	76 (optionally 152)			
	Winding	Outside or inside				
Labeling head sizes and weights						
Height	with supply roll 310 mm	min. mm	600 x 600			-
x Width	with supply roll 410 mm	min. mm	700 x 680			825 x 925
Depth	mm	266	328	390	452	
Weight	min. kg	14	14.5	15	32	
Device data						
Drive	AC servo motor					
Display	QVGA-resoluted LCD color display					
Masterencoder (option)	24 V HTL, signal A + B					
Mounting	Vertical/horizontal					
Label sensor						
Method	Light barrier, inductive, capacitive, ultrasonic					
Function	For label edge detection and end of material					
Interfaces						
Digital I/O	17 pin, 24 V PNP for signal exchange with master controller (galvanically isolated)					
Analog	Analog inputs (0 - 10 V / 0 - 24 V) for parameters SPEED, START, STOP combined with a PLC or potentiometer installed by the customer (galvanically isolated)					
WLAN	WLAN 802.11 b, g, n, 150 MBit/s, 2.4 GHz					
Peripherals (APPLY)	12 pin, for USB warning light and applicator (24 V PNP, galvanically isolated)					
End of label web sensor	5 pin, 24 V PNP or cab end of label web sensor					
Start and stop sensor	5 pin each, 24 V PNP (galvanically isolated)					
Product speed synchronization	5 pin, 24 V PNP synchronization signal externally or from masterencoder (galvanically isolated), masterencoder as an option					
Serial (option)	RS232/RS485					
LAN (option)	MQTT, Modbus, Ethernet/IP ²⁾					
Fieldbus (option) ²⁾	Profibus DP V1, ProfiNet, DeviceNet, EtherCat					
Operating data						
Mains supply	Primarily TN and TT grids					
Protection class	Class I equipment					
Power supply	100 - 240 VAC 50/60 Hz					
Power consumption	120 V: 4 A / 230 V: 2 A					
External fusing	120 V: minimum 6 A slow, maximum 20 A / 230 V: minimum 3 A slow, maximum 16 A					
Leakage current	EN 60950: 260 V / 60 Hz: 2.6 mA					
Type of protection	IEC 60529: IP 66, UL 50 type 12, NEMA 250 type 12					
Temperature /	Operation	0 - 40 °C / 10 - 85 % not condensing				
humidity	Storage	0 - 60 °C / 20 - 80 % not condensing				
	Transport	-25 - 60 °C / 20 - 80 % not condensing				
Approvals	CE, ICES 3, CB, c UL us, FCC class A, IC					
Operation panel						
Buttons with LED display	ON and FEED					
LCD graphic display	Width x Height mm	54 x 70				
Settings	Language settings, device settings, interfaces, formats memory for 100 products					
On display	Operational and warning messages					
Control/testing						
Label web	Pre-warning to end of label web, end of label web, label web broken					
Drive	Torque, temperature, power supplies, currents					
Electrical outputs	Protection from overload, short circuit, reverse polarity					
System diagnostics	Diagnostics when switched on, integrated menu for I/O testing					

¹⁾ Label size is further determined by the type of applicator. Limitations may apply to small labels, thin materials or strong adhesives. These applications need to be tested and approved.

²⁾ on request

Accessories overview













■ Typical □ On request








Labeling head		Working width 124 mm					Working width 186 mm					Working width 248 mm					Working width 310 mm		
Labeling speed up to m/min		30	40	50	100	200	30	40	50	80	150	30	40	50	80	100	30	40	50
Pos.	Standard equipment																		
2.1	Unwinder, diameter 310 mm	■	■	■	□	-	■	■	■	□	-	■	■	□	-	-	-	-	-
2.2	Unwinder, diameter 410 mm	■	■	■	-	-	■	■	■	-	-	■	■	-	-	-	-	-	-
2.3	Motor-driven unwinder, diameter 410 mm ¹⁾	□	□	□	□	-	□	□	□	□	-	□	□	□	□	-	□	□	□
2.4	Motor-driven unwinder, diameter 410 mm with double pendulum ¹⁾	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
2.5	Rewinder, diameter 210 mm	■	■	■	□	-	■	■	□	-	-	■	□	-	-	-	-	-	-
2.6	Rewinder, diameter 290 mm	■	■	□	-	-	■	□	-	-	-	□	-	-	-	-	-	-	-
2.7	Motor-driven rewinder, diameter 310 mm ¹⁾	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
2.8-2.10	Peel edges standard, adjustable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□
2.11, 2.12	Forked light barrier, holder for forked light barrier	■	■	■	■	□	■	■	■	■	□	■	■	■	■	■	■	■	■
2.13, 2.14	Label sensor CEON, holding bar on peel edge	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2.15	Speed key	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2.16	Assembly rod	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Extra equipment																			
3.1, 3.2	Product sensor, product sensor cable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3.3, 3.4	Rotary encoder with cable, masterencoder cable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3.5, 3.6	Friction wheel and holder for rotary encoder	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3.7	One-sided wipe-down roller	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	-	-
	Double-sided wipe-down roller	-	-	-	-	-	■	■	■	■	■	■	■	■	■	■	□	□	□
	Wipe-down brush	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3.8	Warning light	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Connecting cables																			
4.1	I/O interface cable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4.2	Applicator cable	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Interfaces																			
5.1	Interface module RS232/RS485	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5.2, 5.3	Interface cables RS232, RS485	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5.4, 5.5	Interface module Ethernet, cable Ethernet	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Circular connectors																			
8.1	Cable plug M12	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8.2	Cable jack M12	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Labeling head		Working width 124 mm				Working width 186 mm				Working width 248 mm				Working width 310 mm	
Mounting		Vertical		Horizontal		Vertical		Horizontal		Vertical		Horizontal		Vertical	Horizontal
Rewinder diameter up to mm		210 / 290	310	210 / 290	310	210 / 290	310	210 / 290	310	210 / 290	310	210 / 290	310	310	310
Pos.	Counterholder														
6.1	Counterholder for unwinder diameter 310/410 mm	■	■	-	-	■	■	-	-	■	■	-	-	■	-
Cover plate															
7.1	Cover plate	-	■	-	■	-	■	-	■	-	■	-	■	■	■
Mounting columns															
9.1	Device fixed	■	-	■	-	■	-	■	-	■	-	■	-	-	-
9.2	Device adjustable	■	-	-	-	■	-	-	-	■	-	-	-	-	-
9.3	Device precisely adjustable	■	-	■	-	■	-	■	-	■	-	□	-	-	-
Mounting columns extra equipment															
9.4	Pivoted retainer	■	-	■	-	■	-	■	-	■	-	■	-	-	-
9.5	Digital counter	■	-	■	-	■	-	■	-	■	-	■	-	-	-
9.6	Extension option for digital counter	■	-	■	-	■	-	■	-	■	-	■	-	-	-
Stands															
10.1	Two-column stand, one axle	■	■	■	■	■	■	■	■	■	■	■	■	□	□
10.2	Two-column stand, two axles	■	■	■	■	■	■	■	■	■	■	■	■	□	□
10.3	Vertical floor stand	■	■	■	■	■	■	■	■	■	■	■	■	□	□
10.4	Horizontal floor stand	■	■	■	■	■	■	■	■	■	■	■	■	□	□
Stands extra equipment															
10.5	Angular gear	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10.6	Digital counter	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10.7	Extension option for digital counter	■	■	■	■	■	■	■	■	■	■	■	■	■	■

¹⁾ Starting quarter 2/2018

Extra equipment

Extra equipment	
3.1 	Product sensor Light switch to start labeling as soon as the product has been detected; scanning range standard up to 200 mm, with transparent products up to 80 mm
3.2 	Product sensor cable M12-M8, 4 pin, a-coded; length 2.5 m
3.3 	Rotary encoder with cable 2.5 m Rotary pulse generator with signals A and B to automatically synchronize the label speed
3.4 	Masterencoder cable for extension M12, 5 pin, a-coded; cable length 2.5 m
3.5 	Friction wheel for rotary encoder Rotates the masterencoder via friction
3.6 	Holder for rotary encoder
3.7 	Roller / brush wipe-down systems To press the label on the product in motion.
3.8 	Warning light Displays the device status in addition to the display Red Group error, e.g. end of label web, label web broken Yellow Pre-warning to end of label web Green Device ready For mounting, a retaining foot is included. Cable length 2.5 m, with a 17 pin M12 circular connector to be connected to the 2 I/O interface
Connecting cables	
4.1 	I/O interface cable Signal exchange with master controller; for signals see page 6, 2 I/O interface Cable length 2.5 m, with circular connectors: 1) Cable plug M12, 17 pin, male 2) Cable jack M12, 17 pin, female
4.2 	Applicator cable (APPLY) Signal exchange with label transfer units; for signals see page 6, 4 APPLY Cable length 2.5 m, with circular connectors: 1) Cable plug M12, 12 pin, male 2) Cable jack M12, 12 pin, female
Interfaces	
5.1 	Interface module RS232/RS485 To be installed in the labeling head's basic unit 10 . It supports either the RS232 or the RS485 protocol. Typical application RS232: → Labeling head connected to a PC Typical application RS485: → One or several labeling heads connected to a PLC
5.2 	Interface cable RS232 Connection of the labeling head to a PC via RS232; Cable length 2.5 m, with plug connectors: 1) Cable jack M12, 5 pin, b-coded, female 2) SUB-D jack, 9 pin, female

Interfaces	
5.3 	Interface cable RS485 Connection of the labeling head to a PLC or via RS485 to another labeling head; Cable length 2.5 m, with circular connectors: 1) Cable plug M12, 5 pin, b-coded, male 2) Cable jack M12, 5 pin, b-coded, female In the case of several labeling heads in use the RS485 interface can be passed through from one labeling head to the next. For the connection of the cable cores in the cabinet the cable plug M12 is separated.
5.4 	Interface module Ethernet 1 port or 2 ports
5.5 	Cable Ethernet M12-RJ45, 4 pin, d-coded; cable length 2.5 m
Counterholders	
6.1 	Counterholder 310 mm To be used with unwinders with diameter 310 mm and vertical mounting of the labeling head. The counterholder prevents the label web from unintentional slipping off the supply roll.
	Counterholder 410 mm To be used with standard unwinders with diameter 410 mm and with motor-driven unwinders and vertical mounting of the labeling head. The counterholder prevents the label web from unintentional slipping off the supply roll.
Cover plates	
7.1 	Cover plate To close up the mechanical port for rewinder connection at the labeling head's basic unit. The cover plate is generally needed when no mechanical rewinder is directly mounted on the labeling head's basic unit.
Circular connectors	
8.1 	Cable plug M12, 5 pin, a-coded, male To user-defined configure a connecting cable for the following interfaces: 1 START 6 END/DIM 7 PRINT 8 STOP For signal description see page 6 Cable plug M12, 12 pin, male To user-defined configure a connecting cable for the following interface: 4 APPLY on the side for the labeling head For signal description see page 6
8.2 	Cable jack M12, 5 pin, a-coded, female To user-defined configure a connecting cable for the following interface: 3 SYNC For signal description see page 6 Cable jack M12, 12 pin, female To user-defined configure a connecting cable for the following interface: 4 APPLY on the side for the label transfer unit For signal description see page 6

Mounting equipment

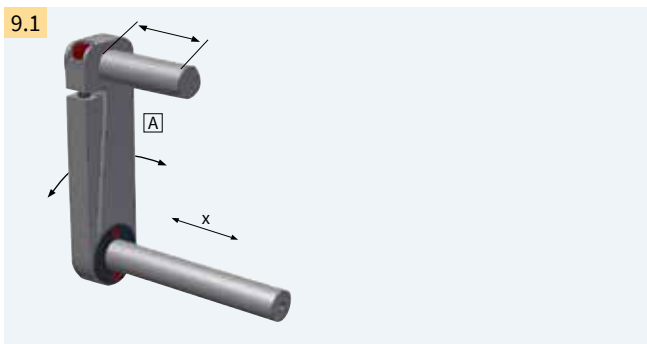


Modular construction kit

By means of the mounting equipment the labeling head can be mounted in a production line and installed in labeling machines in customized manner. For this, the construction kit includes:

- 9.1, 9.2, 9.3 Retainers
- 10.1, 10.2 Column stands
- 10.3, 10.4 Floor stands

Retainers

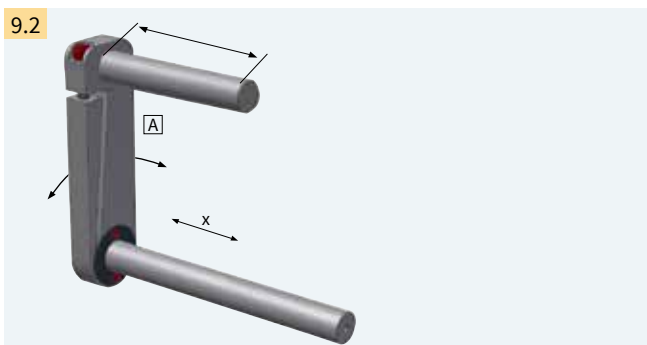


A Pivoted retainer

For adjusting the angle of the labeling head. For example, the dispensing angle “label to product” can be set. Three kinds of mounting are possible:

Type 1: Device fixed

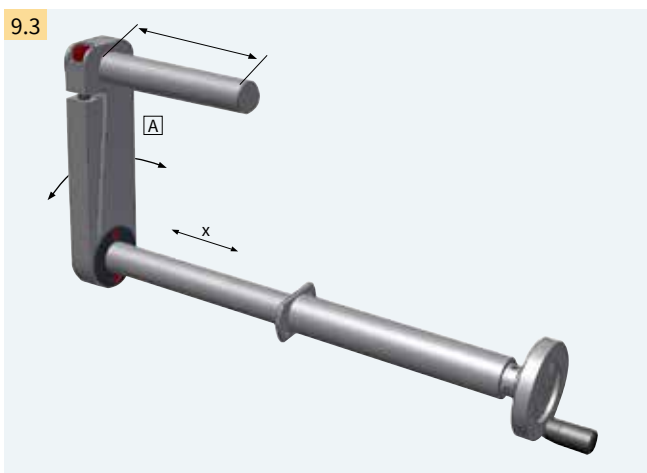
The labeling head is not adjustable in x-axle direction.



Type 2: Device adjustable

The labeling head in x-axle direction is adjustable 200 mm transverse the direction of the dispensing of the label. In the case of wipe-down labeling the position of the label on the product can be varied transverse the direction the product is moving.

If the **A** pivoted retainer is not mounted, the adjustable track increases by 26.5 mm.



Type 3: Device precisely adjustable

The labeling head in x-axle direction is precisely adjustable via a hand crank 150 mm transverse the direction of the dispensing of the label. In the case of wipe-down labeling the position of the label on the product can be varied transverse the direction the product is moving.

Stands

10.1



Column stand, one axle

For mounting the labeling head on a conveyor belt.
Position setting via a hand crank.

Technical data		Column stand
Column length	mm	400 - 800
Adjustable track	mm	Column length mm - 205 mm
Column diameter	mm	30

10.2



Column stand, two axles

For mounting the labeling head on a conveyor belt.
Position setting via a hand crank.

Technical data		Column stand
Column length	mm	400 - 800
Adjustable track	mm	Column length mm - 205 mm
Column diameter	mm	30

10.3



Vertical floor stand 1632

Primarily for labeling from the top. The mobile floor stand can be locked and adjusted on site via retaining feet.
Preferred application for use in different production lines.

Technical data		Vertical floor stand
Retaining feet adjustable	mm	± 15
Load	up to kg	50
Load at outreach 300 mm	up to kg	25
Lower label edge - ground floor	mm	880 - 1200
Weight	approx. kg	40

10.4





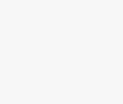




Horizontal floor stand 1231

Primarily for labeling from the side. The mobile floor stand can be locked and adjusted on site via retaining feet.
Preferred application for use in different production lines.

Technical data		Horizontal floor stand
Retaining feet adjustable	mm	± 15
Load	up to kg	50
Load at outreach 200 mm	up to kg	20
Lower label edge - ground floor	mm	664 - 904
Weight	approx. kg	40



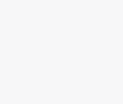

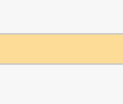



Delivery program

Standard equipment L type

Pos.		Part no.	Basic units
1.1		5971350	Basic unit 124 L
1.2		5971351	Basic unit 186 L
1.3		5983171	Basic unit 248 L
1.4		6121115	Basic unit 310 L
		Part no.	Unwinders
2.1		5983300	Unwinder D310 H 124 L
		5983302	Unwinder D310 H 186 L
		5983304	Unwinder D310 H 248 L
		5983312	Unwinder D310 V 124 L
		5983314	Unwinder D310 V 186 L
		5983316	Unwinder D310 V 248 L
2.2		5983306	Unwinder D410 H 124 L
		5983308	Unwinder D410 H 186 L
		5983310	Unwinder D410 H 248 L
		5983318	Unwinder D410 V 124 L
		5983320	Unwinder D410 V 186 L
		5983322	Unwinder D410 V 248 L
		Part no.	Rewinders
2.5		5977688	Rewinder D210 124 L
		5983250	Rewinder D210 186 L
		5983252	Rewinder D210 248 L
2.6		5983254	Rewinder D290 124 L
	5983256	Rewinder D290 186 L	
	5983258	Rewinder D290 248 L	
		Part no.	Peel edges standard
2.8		5972645	Peel edge, length 100 mm 62 L
		5972358	Peel edge, length 100 mm 124 L
		5972647	Peel edge, length 100 mm 186 L
		5972649	Peel edge, length 100 mm 248 L
		5972653	Peel edge, length 100 mm 310 L
2.9		5972646	Peel edge, length 160 mm 62 L
		5972337	Peel edge, length 160 mm 124 L
		5972648	Peel edge, length 160 mm 186 L
		5972652	Peel edge, length 160 mm 248 L
		5972654	Peel edge, length 160 mm 310 L
		Part no.	Peel edges adjustable 0-75°
2.10		5977660	Peel edge, length 100 mm 62 L
		5977662	Peel edge, length 100 mm 124 L
		5977664	Peel edge, length 100 mm 186 L
		5977666	Peel edge, length 100 mm 248 L

Type code labeling head			
Labeling head		124	L
Label web width	62 mm		
	124 mm		
	186 mm		
	248 mm		
	310 mm		
Dispensing	to the left L		
	to the right R		




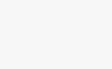





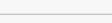
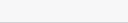

Standard equipment R type

Pos.		Part no.	Basic units
1.1		5983169	Basic unit 124 R
1.2		5983170	Basic unit 186 R
1.3		5983172	Basic unit 248 R
1.4		6121116	Basic unit 310 R
		Part no.	Unwinders
2.1		5983301	Unwinder D310 H 124 R
		5983303	Unwinder D310 H 186 R
		5983305	Unwinder D310 H 248 R
		5983313	Unwinder D310 V 124 R
		5983315	Unwinder D310 V 186 R
		5983317	Unwinder D310 V 248 R
2.2		5983307	Unwinder D410 H 124 R
		5983309	Unwinder D410 H 186 R
		5983311	Unwinder D410 H 248 R
		5983319	Unwinder D410 V 124 R
		5983321	Unwinder D410 V 186 R
		5983323	Unwinder D410 V 248 R
		Part no.	Rewinders
2.5		5983230	Rewinder D210 124 R
		5983251	Rewinder D210 186 R
		5983253	Rewinder D210 248 R
2.6		5983255	Rewinder D290 124 R
		5983257	Rewinder D290 186 R
		5983259	Rewinder D290 248 R
		Part no.	Peel edges standard
2.8		5972655	Peel edge, length 100 mm 62 R
		5972660	Peel edge, length 100 mm 124 R
		5972657	Peel edge, length 100 mm 186 R
		5972659	Peel edge, length 100 mm 248 R
		5972663	Peel edge, length 100 mm 310 R
2.9		5972656	Peel edge, length 160 mm 62 R
		5972661	Peel edge, length 160 mm 124 R
		5972658	Peel edge, length 160 mm 186 R
		5972662	Peel edge, length 160 mm 248 R
		5972664	Peel edge, length 160 mm 310 R
		Part no.	Peel edges adjustable 0-75°
2.10		5977661	Peel edge, length 100 mm 62 R
		5977663	Peel edge, length 100 mm 124 R
		5977665	Peel edge, length 100 mm 186 R
		5977667	Peel edge, length 100 mm 248 R

Type code unwinders and rewinders			
Unwinders and rewinders		D310	H 124 L
Outer diameter	up to 210 mm		
	290 mm		
	310 mm		
	410 mm		
Mounting	vertical V		
	horizontal H		
Label web width	62 mm		
	124 mm		
	186 mm		
	248 mm		
Dispensing	to the left L		
	to the right R		












Delivery program

Standard equipment L and R

Pos.		Part no.	Label edge detection
2.11		5918670	Forked light barrier
2.12		5972608	Holder for forked light barrier
2.13		5983588	Label sensor CEON
2.14		6120120	Holding bar on peel edge label web width 62 mm for label sensor CEON
		5972339	Holding bar on peel edge label web width from 124 mm for label sensor CEON
		Part no.	Speed keys
2.15		5581001 5581002 5581003 5581004 5581005 5581006	Speed key 12 m/min (500 ipm) Speed key 25 m/min (1,000 ipm) Speed key 50 m/min (2,000 ipm) Speed key 100 m/min (4,000 ipm) Speed key 150 m/min (6,000 ipm) Speed key 200 m/min (8,000 ipm)
		Part no.	Assembly rods for peel edge
2.16		5972443	Assembly rod, diameter 16 mm, distance to device 0 mm
		5972418	Assembly rod, diameter 16 mm, distance to device 100 mm
		5972419	Assembly rod, diameter 16 mm, distance to device 200 mm
		5972420	Assembly rod, diameter 16 mm, distance to device 300 mm
		6120067	Assembly rod, diameter 16 mm, distance to device 400 mm
		5972421	Assembly rod, diameter 16 mm, distance to device 600 mm
			For labeling head working widths 124/186 → 2x 248/310 → 3x
		Part no.	Basic unit options
1.4		5xxxxxx.801	Basic unit with power cable, no plug „x“ - choose basic unit from Pos. 1.1 to 1.3
1.5		5xxxxxx.803	Basic unit with power cable and plug „x“ - choose basic unit from Pos. 1.1 to 1.3










Scope of delivery	
Optional:	<ul style="list-style-type: none"> Basic unit Pos. 1.1 to 1.4 Operator's manual DE/EN/FR
	<ul style="list-style-type: none"> Configuration manual DE/EN Service manual DE/EN including spare parts list DE/EN Interface description DE/EN

Extra equipment



Pos.		Part no.	Extra equipment
3.1		5918702	Product sensor light switch up to 200 mm
		5918703	Product sensor light switch with transparent products up to 80 mm
3.2		5918671	Product sensor cable, 2.5 m M12-M8, 4 pin, a-coded
3.3		5918718	Rotary encoder with cable 2.5 m
3.4		5918418	Masterencoder cable for extension, 2.5 m M12, 5 pin, a-coded
3.5		5918720	Friction wheel for rotary encoder
3.6		5918719	Holder for rotary encoder
3.7			Wipe-down rollers for peel edge standard and adjustable:
		5972665	Wipe-down roller 62
		5972666	Wipe-down roller 124
		5972667	Wipe-down roller 186
		5972668	Wipe-down roller 248
			Wipe-down rollers for peel edge standard:
		6120106	Wipe-down roller 62 spring-loaded
		6120107	Wipe-down roller 124 spring-loaded
		6120108	Wipe-down roller 186 spring-loaded
		6120109	Wipe-down roller 248 spring-loaded
			Wipe-down rollers for peel edge adjustable:
		6120101	Wipe-down roller 62 spring-loaded
		6120102	Wipe-down roller 124 spring-loaded
		6120103	Wipe-down roller 186 spring-loaded
		6120104	Wipe-down roller 248 spring-loaded
			Wipe-down brushes for peel edge standard and adjustable:
		6120139	Wipe-down brush 31
		6120140	Wipe-down brush 62
		6120141	Wipe-down brush 124
		6120142	Wipe-down brush 186
		6120143	Wipe-down brush 248
		6120144	Wipe-down brush 310
3.8		5971223	Warning light with cable 2.5 m M12, 17 pin
		Part no.	Connecting cables
4.1		5918421	I/O interface Cable, 2.5 m M12, 17 pin
4.2		5918420	Applicator Cable, 2.5 m M12, 12 pin

Delivery program




Extra equipment

Pos.		Part no.	Interfaces
5.1		6121000	Interface module RS232/RS485
5.2		5918664	Interface cable RS232, 2.5 m M12, 5 pin, b-coded, female - SUB-D 9 pin
5.3		5918598	Interface cable RS485, 2.5 m M12, 5 pin, b-coded, male - M12, 5 pin, b-coded, female
		5918663	Interface cable RS485, 1.0 m M12, 5 pin, b-coded, male - M12, 5 pin, b-coded, female
5.4		6121001	Interface module Ethernet 1 port
		6121002	Interface module Ethernet 2 ports
5.5		5918665	Cable Ethernet, 2.5 m M12-RJ45, 4 pin, d-coded
		Part no.	Counterholders
6.1		5983324	Counterholder, diameter 310 mm
		5983325	Counterholder, diameter 410 mm
		Part no.	Cover plate
7.1		5983429	Cover plate
		Part no.	Circular connectors
8.1		5918479	Cable plug M12, 5 pin, a-coded, male
		5918483	Cable plug M12, 12 pin, male
8.2		5918480	Cable jack M12, 5 pin, a-coded, female
		5918484	Cable jack M12, 12 pin, female








Mounting equipment

Pos.		Part no.	Mounting columns
9.1		5983401	Device fixed, not pivoted 124
		5983402	Device fixed, not pivoted 186
		5983403	Device fixed, not pivoted 248
		5983405	Device fixed, pivoted 124
		5983406	Device fixed, pivoted 186
		5983407	Device fixed, pivoted 248
9.2		5983409	Device adjustable 124
		5983410	Device adjustable 186
		5983411	Device adjustable 248

Mounting equipment

Pos.		Part no.	Mounting columns
9.3		5983413	Device precisely adjustable 124
		5983414	Device precisely adjustable 186
		5983415	Device precisely adjustable 248
		Part no.	Mounting columns extra equipment
9.4		5971614	Pivoted retainer
9.5		5983431	Digital counter, vertical axle
		5983432	Digital counter, horizontal axle
9.6		5983428	Extension for digital counter

Stands

		Part no.	Stands
10.1		5983420	Column stand diameter 30 mm, one axle, height 400 mm
		5983421	Column stand diameter 30 mm, one axle, height 600 mm
		5983422	Column stand diameter 30 mm, one axle, height 800 mm
10.2		5983423	Column stand diameter 30 mm, two axles, height 600 mm, width 400 mm
		5983424	Column stand diameter 30 mm, two axles, height 600 mm, width 600 mm
10.3		5983425	Vertical floor stand including column stand diameter 30 mm, height 800 mm
10.4		5983426	Horizontal floor stand including column stand diameter 30 mm, height 600 mm
		Part no.	Stands extra equipment
10.5		5983427	Angular gear
10.6		5983417	Digital counter, vertical axle
		5983418	Digital counter, horizontal axle
10.7		5983428	Extension for digital counter