

Status: 09/2021



Products need labeling  
Label printers  
for industrial applications



**a8<sup>+</sup>, XD4T, XC**  
Made in Germany

# Label printers for industrial applications

They fit with a wide range of applications.

They have been developed with focus on easy and convenient operation and high reliability.

The print mechanics and the chassis are made of high-quality materials and perfectly match in terms of shape and function.

A large number of peripherals and software enable customer-specific solutions.

Whether they are operated in stand-alone mode, in a PC application or within a network – the rugged **A8+** printers and the **X series** are always up to the mark.

## Sample applications

### Label printer XD4T

Double-sided printing, for example textile labels, shrink tubes and continuous materials



### Label printers XC4, XC6

Two-color printing, for example warning labels compliant to GHS



### Label printer A8+

Cardboard and pallet labels up to A4 format



# Label printer A8+, the extra-wide one

1.1



For pallet and drum labels up to a width of A4

Label printer		A8+
Printable resolution	dpi	300
Print speed	up to mm/s	150
Print width	up to mm	216

## Details



### 1 Large graphic display

White backlight provides good readability.

### 2 Ribbon holder

The three-part tightening axes enable the ribbon to be quickly and easily exchanged.

### 3 Simple adjustment

The print head is pressed on by three plungers: One is fixed at the inner side, another is set in centered position and the third is set at the outer label margin.

### 4 Periphery connection

Additional modules are quick and easy to connect. All peripheral devices are plugged to the printer with the help of two pins and are fixed with a screw.

### 5 Rugged metal chassis

made of cast aluminum. Basis to assemble all the units

### 6 Roll holder

picking up core diameters of at least 38 mm (76 mm adapters for a better label winding are included in the delivery). The spring-mounted margin stop with a screw cap enables constant tension during material feed and therefore improves the accuracy of the imprint.

## Label printer XD4T for double-sided printing



It prints on both sides of textile tapes, cardboard labels, pressed tubes continuous or ready-for-use, as well as on endless materials made of plastic, paper or cardboard. The ribbon separates from the materials with the help of a draw roller that also improves the accuracy of the imprint.

No print head adjustment necessary with different material widths

Print rollers provided for slim and thin materials

Label printers		XD4T
Printable resolution	dpi	300
Print speed	up to mm/s	125
Print width	up to mm	105.6

## Accessories



### Cutter CU4

Paper labels, self-adhesive labels, cardboard, textile and plastic materials as well as shrink tubes can be cut.

### Perforation cutter PCU4

In addition, the materials can be perforated before they are manually separated.

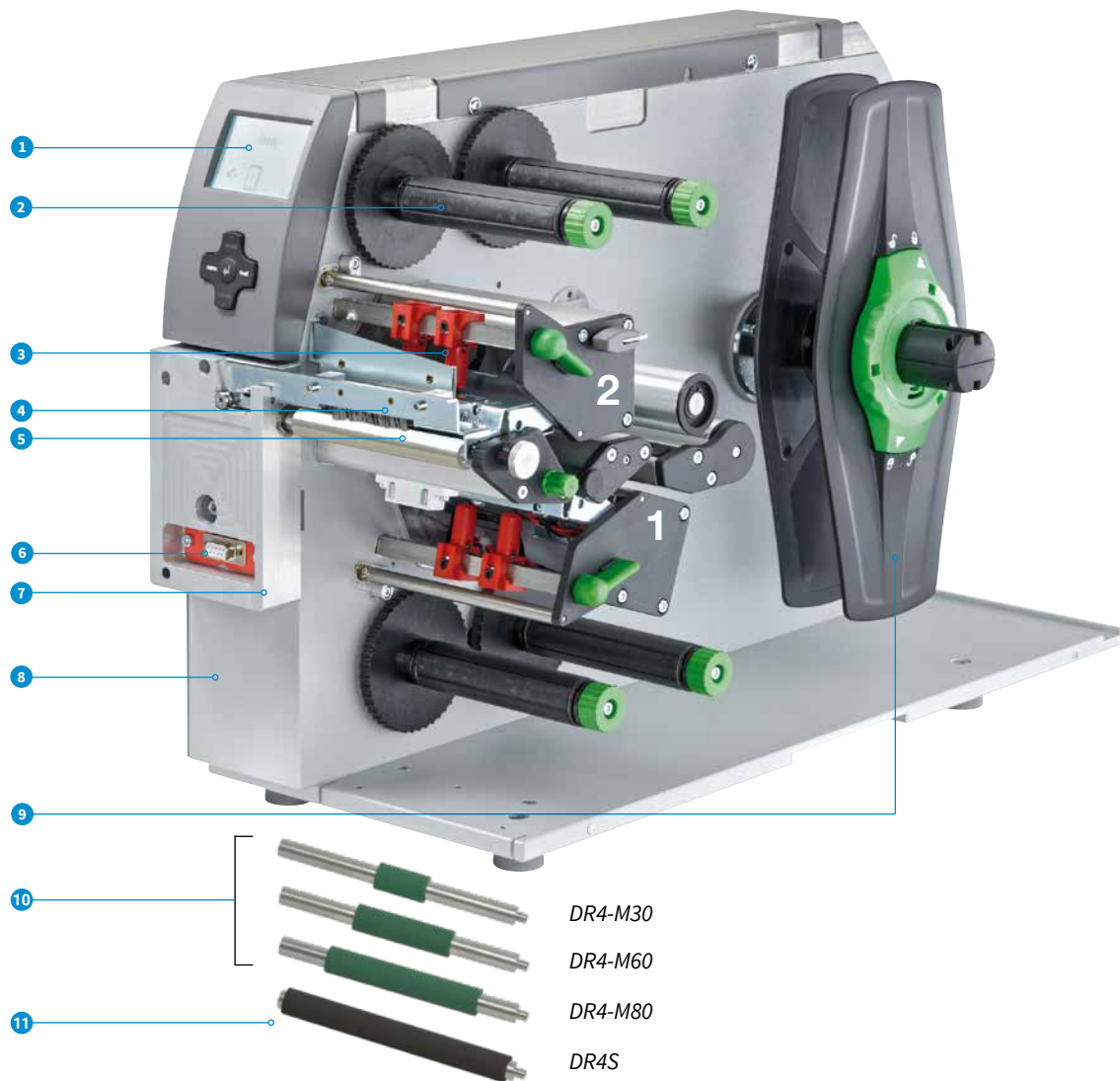


### Stacker ST4 M with cutter

The printed materials are cut and stacked. If the maximum stack height is reached, printing is interrupted. Even stiff or curved materials can be processed. We recommend to have these applications tested at our premise.



# Details



## 1 Large graphic display

White backlight provides good readability.

## 2 Ribbon holder

The three-part tightening axes enable the ribbon to be easily inserted. A preprinted ruler simplifies the adjustment.

## 3 Plungers

The print head is pressed on by two plungers. As the materials are centre-guided in the device, no print head setting or adjustment is necessary.

## 4 Antistatic brush

Particularly with plastic materials the electrostatic charge is discharged after printing.

## 5 Material guide

The material guide just in front of the print roller provides accurate imprint. The material width is adjusted with a spindle.

## 6 Periphery connection

Additional modules are quick and easy to connect. All peripheral devices are plugged to the printer with the help of two pins and are fixed with a screw.

## 7 Separator

primarily if continuous or textile materials as well as shrink tubes are processed. At high heat energy the ribbon can stick with the textile tape. A roller reliably separates the material from the ribbon.

## 8 Rugged metal chassis

made of cast aluminum. Basis to assemble all the units

## 9 Roll holder

picking up core diameters of at least 38 mm (76 mm adapters for a better label winding are included in the delivery). The material roll automatically centers when setting the margin stop. In case of core diameter 100 mm, an adapter is recommended.

## 10 Slim print rollers DR4-M

In order to achieve an accurate imprint with slim materials and ribbons, also slim print rollers are needed. These prevent from print roller wear, print head contamination and errors during material feed. Coating: synthetic rubber

## 11 Print roller DRS

It has an extra long service life at a higher imprint tolerance. Coating: silicone

## Label printers XC for two-color printing

1.3



Two print units are arranged one behind the other to achieve simultaneous printing with two colors on one label.

Ribbon-saver mechanism on one print head

Compliant to the GHS regulations for classification and labeling

Picking up large label rolls with up to 300 mm diameter

Label printer		XC4
Printable resolution	dpi	300
Print speed	up to mm/s	125
Print width	up to mm	105.6

1.4



Label printer		XC6
Printable resolution	dpi	300
Print speed	up to mm/s	125
Print width	up to mm	162.6

We gladly assist you in the selection of proper ribbons.

## Accessories



### Cutter CU4

Paper labels, self-adhesive labels, cardboard, textile and plastic materials as well as shrink tubes can be cut.

### Perforation cutter PCU4

In addition, the materials can be perforated before they are manually separated.



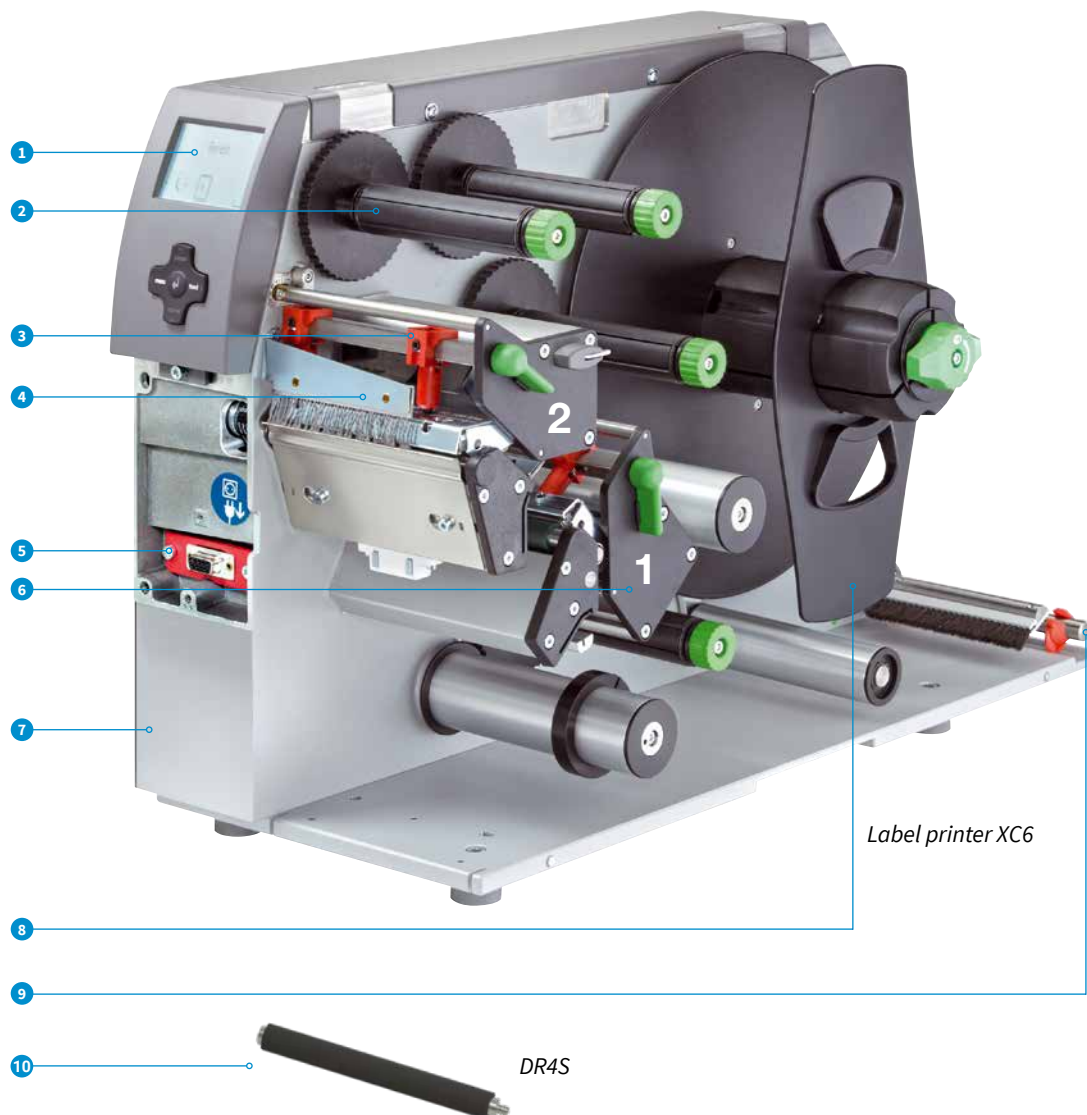
### Stacker ST4 L with cutter

The printed materials are cut and stacked.

If the maximum stack height is reached, printing is interrupted. Even stiff or curved materials can be processed.

We recommend to have these applications tested at our premise.

# Common details



## 1 Large graphic display

White backlight provides good readability.

## 2 Ribbon holder

The three-part tightening axles enable the ribbon to be quickly and easily exchanged.

## 3 Plungers

One is fixed at the inner side. The second is adjusted that far to the edge of the label until a good print image is ensured.

## 4 Antistatic brush

Particularly with plastic materials the electrostatic charge is discharged after printing.

## 5 Periphery connection

Additional modules are quick and easy to connect. All peripheral devices are plugged to the printer with the help of two pins and are fixed with a screw.

## 6 Ribbon-saver mechanism on print head 1

to be used with labels that are only partially printed. Within unprinted areas the print head is lifted and the ribbons is stopped during label feed.

## 7 Rugged metal chassis

made of cast aluminum. Basis to assemble all the units

## 8 Roll holder

picking up label rolls up to 300 mm. With the help of the swing lever and the integrated brake labels are unwound with constant tension.

## 9 Fanfold guide

Fanfold labels are set behind the print unit. The guide and the additional brake ensure that they are safely fed to the print mechanics.

## 10 Print roller DR4S

It has an extra long service life at a higher imprint tolerance. Coating: silicone

# Technical data

■ Standard □ Option

			1.1	1.2	1.3	1.4
Label printer			A8 <sup>+</sup>	XD4T	XC4	XC6
Print head						
Material feed			left-aligned	centered	left-aligned	left-aligned
Printing method	Thermal transfer		■	■	■	■
	Thermal direct		■	-	-	-
Printable resolution	dpi		300	300	300	300
Print speed	up to mm/s		150	125	125	125
Print width	up to mm		216	105,6	105,6	162,6
Material						
Roll	Paper, cardboard, plastics such as		■	■	■	■
Reel	PET, PE, PP, PI, PVC, PU, acrylate, Tyvec		-	■	-	-
	Pressed shrink tubes		-	■	-	-
	Textile tapes		-	■	■	-
Labels <sup>1)</sup>	Width	mm	46 - 220	10 - 110	20 - 116	46 - 176
	Height	mm	20 - 2,000	20 - 2,000	20 - 2,000	20 - 2,000
	Thickness	mm	0.05 - 0.2	0.05 - 0.8	0.05 - 0.2	0.05 - 0.2
Liner material	Width	mm	50 - 235	10 - 110	24 - 120	50 - 180
Continuous material	Width	mm	50 - 235	4 - 110	-	-
	Weight (cardboard)	up to g/m²	300	300	-	-
Shrink tubes	Width ready-for-use	up to mm	-	110	-	-
	continuous	mm	-	4 - 85	-	-
	Thickness	up to mm	-	1.1	-	-
Roll, reel	Outside diameter	up to mm	205	300	300	300
	Core diameter	mm	38 - 100	38 - 100	76 - 100	76 - 100
	Winding		outside or inside			
Ribbon <sup>2)</sup>						
Ink side			outside or inside			
Roll diameter	up to mm		72			
Core diameter	mm		25			
Variable length	up to m		360			
Width	up to mm		220	114	114	165
Printer sizes and weights						
Width x Height x Depth	mm		352 x 274 x 446	248 x 395 x 554	248 x 395x 554	358 x 395 x 554
Weight	kg		15	21	22	24
Label sensor with position indication						
Gap sensor for			labels, punch marks or print marks in transparent materials and end of material			
Reflective sensor from below or top (option) for			print marks in not transparent materials and end of material			
Distance sensor	to locating edge	mm	5 - 53	-	5 - 53	5 - 53
	from centre to the left	mm	-	0 - 53	-	-
Electronics						
Processor 32 bit clock rate	MHz		266			
Main storage (RAM)	MB		64			
Data storage (IFFS)	MB Flash		8			
Slot for	CompactFlash Type I		■			
	WLAN card		■			
Battery buffer for real-time clock			■			
Acoustic error signal			■			
Interfaces						
RS232C			■	-		
USB 2.0 Hi-speed slave to connect a PC			■	■		
Ethernet 10/100 Mbit/s			LPD, RawIP printing, FTP, DHCP, HTTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP			
RS422/RS485			□	-		
Periphery connection			■	■		
WLAN 802.11b/g, WEP/WPA-PSK (TKIP)			□	□		
2 x USB host for			Service Key, USB memory stick, keyboard, barcode scanner, external operation panel			
Operating data						
Power supply			100 - 240 VAC, 50/60 Hz, PFC			
Power consumption			100-300 W, depending from the type of device			
Temperature / humidity	Operation		+5 - 40°C / 10 - 85 % not condensing			
	Storage		0 - 60°C / 20-80 % not condensing			
	Transport		-25 - 60°C / 20-80 % not condensing			
Approvals			CE, FCC, CB, cULus, CCC			

<sup>1)</sup> Limitations may apply to small labels, thin materials or strong adhesives. Critical applications need to be tested.

<sup>2)</sup> The ribbon should at least correspond with the width of the liner material.



# Technical data

■ Standard □ Option

Operation panel		
	Graphic LCD display Width 60 mm, height 40 mm Four lines of text, approx. 20 characters per line	
Buttons / LED	Pause, Feed, Cancel, Menu, Enter 4 x cursor	
Setup options		
	Digital or analog clock Device settings Printing parameters Language settings	Time Date Interfaces Security
Status display		
	Data reception WLAN Ethernet Memory in use Print head temperature Memory card access	Clock Calendar abc debug Input buffer Ribbon remaining
Monitoring		
	End of ribbon End of label web Print head open Final cutter position not reached	
Test routines		
System diagnostics	when device is switched on, including print head detection	
Brief status display, status printout	Fonts list Device overview WLAN status	Test grid Label profile Monitor mode PPP status
Status reports	- Printout of device settings, for example print lengths and running times - Device status request via software command - Display information of, for example, network error, missing link, barcode error, etc.	
Fonts		
Font types internally provided	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	3 vector fonts: Swiss 721 Swiss 721 Bold Monospace 821
to be stored	TrueType fonts	
Character sets	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBC DIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS K018-R  Western European Eastern European Chinesisch simplified Thai  Cyrillic Greek Latin Hebrew Arabic	
Bitmap fonts	Size in width and height 1 - 3 mm Zoom factor 2 to 10 Orientations 0°, 90°, 180°, 270°	
Vector / TrueType fonts	Size in width and height 0.9 - 128 mm Variable zoom Orientation 360° in steps of 1°	
Font styles	Bold, italic, underlined, outline, inverse - depending from the font type	
Character spacing	variable	

Graphics			
Graphic elements	Lines, arrows, rectangles, circles, ellipses; filled and filled with fading		
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG		
Codes			
1D barcodes (linear)	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	
2D and stacked codes	DataMatrix EAN-DataMatrix QR code PDF 417 Micro PDF 417 GS1 Data Bar Aztec Codablock F UPS Maxicode RSS 14 truncated, limited, stacked, stacked omni-directional		
	All codes are variable as regards height, modular width and ratio; orientations 0°, 90°, 180°, 270°  optional check digit, plain text printout and start / stop code depending from the type of code		
Software			
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		■ ■ □ □
Running also with	CODESOFT NiceLabel BarTender		
Stand-alone operation			■
WHQL certified Windows printer drivers for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019	■
Apple Mac OS X printer drivers <sup>3)</sup>	from version 10.6		■
Linux printer drivers <sup>3)</sup>	from CUPS 1.2		■
Programming	Printer language JScript abc Basic Compiler		■ ■
Integration	SAP Database Connector		■ ■
Administration	Printer control Configuration in Intranet and Internet Network Manager		■ ■ ■














<sup>3)</sup> only with label printer A8+

# Overview of accessories

○ Possible    □ Option

Pos.	Device add-ons	1.1 A8 <sup>+</sup>	1.2 XD4T	1.3 XC4	1.4 XC6
<b>Extra equipment</b>					
2.3	Print rollers DR4-M30, -M60, -M80	-	□	-	-
2.4	Print roller DR4S	-	□	□	□
2.5	Label sensor	□	-	-	-
2.6	Adapter 100	□	□	-	-
2.7	CompactFlash memory card	□	□	□	□
2.8	External operation panel	□	□	□	□
2.9	Pause adapter PS7	□	-	-	-
<b>Interfaces</b>					
3.2	RS422/RS485	□	-	-	-
3.3	Label selection - I/O box	□	□	□	□
3.4	WLAN 802.11b/g	□	□	□	□
<b>Connecting cable</b>					
4.1	Connecting cable RS232C, 9/9 pin, length 3 m	□	□	□	□
<b>Label cutting, perforating, stacking</b>					
5.1	Cutter CU	□	□	□	□
5.3	Perforation cutter PCU4	-	□	○	-
5.4	Stacker ST4 L with cutter	-	-	□	-
	Stacker ST4 M with cutter	-	□	-	-
<b>Label rewinding, unwinding</b>					
6.1	External rewinder ER	□	□	□	□
6.3	Adapter kit for rewinders, unwinders with A8 <sup>+</sup>	□	-	-	-
6.4	Adapter kit for rewinders, unwinders with XC4, XC6	-	-	□	□

# Accessories - extra equipment, interfaces, connecting cable

Extra equipment		
2.3		<b>Print roller DR4-M30</b> Material width up to 30 mm Synthetic rubber coating for accurate imprint
		<b>Print roller DR4-M60</b> Material widths 20 to 60 mm Synthetic rubber coating for accurate imprint
		<b>Print roller DR4-M80</b> Material width up to 80 mm Synthetic rubber coating for accurate imprint
2.4		<b>Print roller DR4S</b> Material width up to 120 mm Silicone coating for an extra long service life at a higher imprint tolerance
2.5		<b>Label sensor</b> Reflective from top
2.6		<b>Adapter 100</b> to pick up label rolls with core diameter 100 mm and outside diameters larger than 180 mm
2.7		<b>Memory card</b> CompactFlash Typ I
2.8		<b>External operation panel</b> If the operation panel is no longer accessible after the printer has been installed in a plant, an external one can be additionally added. A slot to connect a CompactFlash memory card Type I as well as a host interface are provided.
2.9		<b>Pause adapter PS7</b> for printing in a reserve loop. The print job is stopped by the Pause signal. The label that is currently printed will be completed.  <b>I/O interface</b> <b>Inputs:</b> Pause External errors <b>Outputs:</b> Print job missing Printer not ready Printing started
Interfaces		
3.2		<b>RS422/RS485</b> 1,200 to 230,400 baud/8 bit
3.3		<b>Label selection - I/O box</b> Up to 16 labels per box can be selected from the memory card by a master control, e.g. PLC. Two boxes can be connected. The I/O box allows simple PLC control processes with four inputs and outputs each via abc programming.
3.4		<b>WLAN 802.11b/g</b>
Connecting cable		
4.1		<b>Connecting cable RS232C</b> 9/9 pin, length 3 m

## Accessories - label cutting, perforating, stacking

5.1



### Cutter CU

Paper labels, self-adhesive labels, cardboard, textile and plastic materials as well as shrink tubes can be cut.

Technical data	Cutter		
	CU4	CU6	CU8
To be used with	<b>XD4T, XC4</b>	<b>XC6</b>	<b>A8+</b>
Material Width up to mm	110	180	232
Weight cardboard gr/m <sup>2</sup>	60 - 300		
Thickness mm	0.05 - 0.8		
Cutting length from mm	5		
Gap height up to mm	2.5		
Cuts/min, without material up to	100		
Stop print job when	final cutter position not attained		

5.2



### Perforation cutter PCU4

Continuous materials such as textiles or shrink tubes are perforated before they are manually separated. In addition, the materials can also be cut.

Technical data	Perforation cutter	
	PCU4	
To be used with	<b>XD4T, XC4</b>	
Perforating Web distance mm	0.5	
Web width mm	2.5 or 10	
Material Width up to mm	85	
Weight cardboard gr/m <sup>2</sup>	60 - 300	
Thickness mm	0.05 - 0.8	
Cutting length from mm	5	
Gap height up to mm	2.5	
Cuts/min, without material up to	100	
Stop print job when	final cutter position not attained	

5.3



### Stacker ST4 with cutter

The printed materials are cut and stacked. If the maximum stack height is reached, printing is interrupted. Limitations may apply to stiff or curved materials. We recommend to have these materials tested at our premise.

Technical data	Stacker with cutter	
	ST4 L	ST4 M
To be used with	<b>XC4</b>	<b>XD4T</b>
Material Width up to mm	20 - 110	20 - 100
Weight cardboard gr/m <sup>2</sup>	60 - 300	
Thickness mm	0.05 - 0.8	
Cutting length from mm	20 - 150	
Gap height up to mm	1.2	
Cuts/min, without material up to	100	
Stop print job when	final cutter position not attained, stacker cover open, stack height attained	
Stack height up to mm	100	



### Support table - label W x H

The support table and the protective cover are adapted to the label size. They have to be ordered separately.







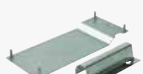


# Delivery program


Pos.		Part no.	Printers
1.1		<b>5954517.101</b>	Label printer A8+
1.2		<b>5959970</b>	Label printer XD4T
1.3		<b>5965700</b>	Label printer XC4
1.4		<b>5965701</b>	Label printer XC6
<b>Scope of delivery</b>			
Label printer Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Instructions DE / EN			
<b>Available online</b>			
 <p>Instructions - in more than 20 languages (A8+) - in DE / EN / FR / RS / IT (X series) Configuration manual DE / EN / FR Service manual DE / EN Spare parts list DE / EN Programming manual EN WHQL certified Windows printer drivers for Windows Vista Server 2008 Windows 7 Server 2008 R2 Windows 8 Server 2012 Windows 8.1 Server 2012 R2 Windows 10 Server 2016 Server 2019 Apple Mac OS X printer drivers DE / EN / FR (A8+ only) Linux printer drivers DE / EN / FR (A8+ only) Label software cablabel S3 Lite cablabel S3 Viewer Database Connector</p> <p><a href="https://setup.cab.de/en">https://setup.cab.de/en</a></p>			

Pos.		Part no.	Wear parts
		<b>5954072.001</b>	Print head 4/300 dpi
		<b>5954106.001</b>	Print head 6/300 dpi
		<b>5954107.001</b>	Print head 8/300 dpi
		<b>5954180.001</b>	Print roller DR4
		<b>5954245.001</b>	Print roller DR6
		<b>5954103.001</b>	Print roller DR8
Pos.		Part no.	Extra equipment
2.3		<b>5953700.001</b>	Print roller DR4-M30
		<b>5953701.001</b>	Print roller DR4-M60
		<b>5953702.001</b>	Print roller DR4-M80
2.4		<b>5954985.001</b>	Print roller DR4S
		<b>5954979.001</b>	Print roller DR6S
2.5		<b>5958631</b>	Label sensor - reflective from top
2.6		<b>5959622.001</b>	Adapter 100
2.7		<b>5561043</b>	Memory card CompactFlash Type I
2.8		<b>5954380</b>	External operation panel
2.9		<b>5946146</b>	Pause adapter PS7
Pos.		Part no.	Interfaces
3.2		<b>5954201</b>	RS422/RS485
3.3		<b>5948205</b>	Label selection - I/O box
3.4		<b>5561041</b>	WLAN 802.11b/g
Pos.		Part no.	Connecting cable
4.1		<b>5550818</b>	Connecting cable RS232C 9/9 pin, length 3 m

# Delivery program

Pos.		Part no.	Label cutting, perforating, stacking
5.1		<b>5948000</b> <b>5948001</b> <b>5948002</b>	Cutter CU4 Cutter CU6 Cutter CU8
5.2		<b>5960050.351</b> <b>5960050.352</b>	Perforation cutter PCU4/2,5 Perforation cutter PCU4/10
5.3		<b>5541311</b> <b>5541313</b>	Stacker ST4 L with cutter Stacker ST4 M with cutter
		<b>55xxxxx</b> <b>55xxxxx</b>	Support table ST4 L, label W x H Support table ST4 M, label W x H
Pos.		Part no.	Label rewinding, unwinding
6.1		<b>5948100</b> <b>5946090</b> <b>5946420</b> <b>5945804</b>	External rewinder ER4/210 External rewinder ER4/300 External rewinder ER6/300 External rewinder ER8/300
6.3		<b>5948170</b>	Adapter kit for A8+
6.4		<b>5965712</b> <b>5965713</b>	Adapter kit for XC4 Adapter kit for XC6

x - user specific part no. following request

Pos.		Part no.	Label software
		Bundle	cablabel S3 Lite (Download at cab.de/en)
		<b>5588001</b> <b>5588100</b> <b>5588101</b> <b>5588150</b> <b>5588151</b> <b>5588152</b>	cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS cablabel S3 Pro 1 additional licence cablabel S3 Pro 4 additional licences cablabel S3 Pro 9 additional licences
11.7		<b>5588002</b> <b>5588105</b> <b>5588106</b> <b>5588155</b> <b>5588156</b> <b>5588157</b> in preparation	cablabel S3 Print 1 WS cablabel S3 Print 5 WS cablabel S3 Print 10 WS cablabel S3 Print 1 additional licence cablabel S3 Print 4 additional licences cablabel S3 Print 9 additional licences cablabel S3 Print Server
11.10		<b>9008486</b>	Programming manual EN, printed copy

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.



Information is also available on the Internet:  
[www.cab.de/en/labelprinter](http://www.cab.de/en/labelprinter)