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Products need labeling  
Label printers  
with highest operating comfort



**eos**  
Made in Germany

## Types

### One concept, two sizes

The EOS series combines all functions of a solid label printer with highest operating comfort.



### **eos2**, the compact one

for label roll diameters up to 152 mm

Label printer		EOS 2	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	152	152
Power supply		100 - 240 VAC, 50/60 Hz	



### **eos5** for large label rolls

with diameters up to 203 mm

Label printer		EOS 5	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	203	203
Power supply		100 - 240 VAC, 50/60 Hz	

### Mobile printing

in production, warehousing or agriculture, wherever labels are required and access to electricity is missing. 24 V input voltage enable the printer to be power supplied by any powerful battery. For technical battery data see accessories



### **eos2 mobile**

for label roll diameters up to 152 mm

Label printer		EOS 2 mobile	
Printable resolution	dpi	300*	
Print speed	up to mm/s	150	
Print width	up to mm	105.7	
Label roll diameter	up to mm	152	
Power supply		16.5 - 25 VDC	



### **eos5 mobile**

for label roll diameters up to 203 mm

Label printer		EOS 5 mobile	
Printable resolution	dpi	300*	
Print speed	up to mm/s	150	
Print width	up to mm	105.7	
Label roll diameter	up to mm	203	
Power supply		16.5 - 25 VDC	

\*203 dpi on request

## Details



To achieve accurate imprint with slim materials and ribbons, slim print rollers are needed. These prevent from print roller wear, print head contamination and errors during material feed.

### 1 Roll holder

The label roll is inserted and automatically centered when closing.

### 2 Ribbon holder

The stop can be adjusted according to the ribbon width.

### 3 Print head 203 / 300 dpi

In case of cleaning or wear, the print head can be replaced easily by hand without tools.

### 4 Label sensor - gap or reflective

The sensor position can be adjusted via a spindle using the red rotary knob. The chosen position is indicated by a LED.

### 5 Print roller DR4

In case of cleaning or wear, the print roller can be replaced without tools.

### 6 Material guide


Using the rotary knob, the guides can be adjusted to the material width

### 7 Tear-off plate

made of thin sheet steel; jagged, so labels are cleanly separated

## Operation panel

Intuitive and easy operation with self-explanatory symbols to configure the device setups

- 1 **LED signal:** Power ON
- 2 **Status bar:** Data reception, Record data stream, Ribbon pre-warning, SD memory card / USB memory stick, Bluetooth, WLAN, Ethernet, USB slave, Time
- 3 **Printer status:** Ready, Pause, Number of printed labels per print job, Label in peel-off position, Awaiting external start signal
- 4 **USB slot** for the Service Key or a memory stick, to load data in the IFFS storage
- 5 **Operation:**
  -  Cutter / perforation cutter: cutting
  - Tear-off mode: print label



## Interfaces on the back of the device



- 1 for a **SD memory card**
- 2 **2 x USB host** to connect a Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick
- 3 **USB 2.0 Hi-speed Device** to connect a PC
- 4 **Ethernet 10/100 Mbit/s**
- 5 **RS232C** 1,200 to 230,400 baud/8 bit

# Technical data

● typical ■ standard □ option

Label printer		Type	1.1		1.2		1.3		1.4			
			EOS 2		EOS 5		EOS 2 mobile		EOS 5 mobile			
Material feed			centered									
Printing method	Thermal transfer		●		●		●		●			
	Thermal direct		●		●		●		●			
Printable resolution	dpi		203	300	203	300	300		300			
Print speed	up to mm/s		150	150	150	150	150		150			
Print width	up to mm		108	105.7	108	105.7	105.7		105.7			
Start of printing	Distance to locating edge		centered									
<b>Material<sup>1)</sup></b>												
Paper, cardboard, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●		●		●		●			
Shrink tubes	ready-for-use		●		●		-		-			
	continuous, pressed		●		●		-		-			
Textile tapes			●		●		●		●			
Packing	on rolls, reels		●		●		●		●			
	Fanfold		□		□		-		-			
	Roll diameter	up to mm	152		203		152		203			
	Core diameter	mm	38.1 - 76									
	Winding		outside or inside									
Labels	Width single-lane	mm	10 - 116									
	multi-lane	mm	5 - 116									
	Height excl. label backfeed	from mm	5									
	incl. label backfeed	from mm	12									
	Thickness	mm	0.05 - 0.6									
Liner material	Width	mm	25 - 120									
	Thickness	mm	0.05 - 0.16									
Continuous material	Width	mm	5 - 120									
	Thickness	mm	0.05 - 0.5									
	Weight (cardboard)	up to g/m <sup>2</sup>	180									
Shrink tubes	Width ready-for-use	up to mm	120									
	continuous, pressed	mm	5 - 85									
	Thickness	up to mm	1.1									
Ribbon <sup>2)</sup>	Ink side		outside or inside									
	Roll diameter	up to mm	72									
	Core diameter	mm	25.4									
	Variable length	up to m	360									
	Width	mm	25 - 114									
<b>Printer sizes and weights</b>												
Width x Height x Depth	mm		253 x 191 x 322		264 x 247 x 412		253 x 191 x 322		264 x 247 x 412			
Weight	kg		4		5		4		5			
<b>Label sensor indicating the position</b>												
Gap sensor	for		labels or punch marks and end of material, print marks on transparent materials									
Reflective sensor	reflex from below or top		for labels and end of material, print marks on non-transparent materials									
Distance of sensor	from centre to locating edge		centered		mm							
Material passage	up to mm		4									
<b>Electronics</b>												
Processor 32 bit clock rate	MHz		800									
Main memory (RAM)	MB		256									
Data memory (IFFS)	MB		50									
Slot to connect a SD memory card (SDHC, SDXC)	up to GB		512									
Battery for time and date, real-time clock			■									
Data memory when power is switched off (e.g. serial numbering)			■									
<b>Interfaces</b>												
RS232C 1,200 to 230,400 baud/8 bit			■									
USB 2.0 Hi-speed device to connect a PC			■									
Ethernet 10/100 BASE-T			LPD, IPv4, RawIP printing, DHCP, HTTP/HTTPS, FTP/FTPS, SMTP, SNMP, TIME, NTP, Zeroconf, SOAP web service, VNC									
1 x USB host on the operation panel	for		Service Key or USB memory stick									
2 x USB host on the back of the device	for		Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick, external operation panel									
USB WLAN stick 2.4 GHz 802.11b/g/n			□									
USB WLAN stick 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac, Hotspot or Infrastructure Mode			□									
USB Bluetooth adapter			□									
Peripheral connection USB host, 24 VDC			■									
<b>Operating data</b>												
Power supply			100 - 240 VAC, 50/60 Hz, PFC				24 VDC					
Power consumption			Standby 1,8 W / typical 45 W									
Temperature / humidity	Operation		+5 - 40°C / 10 - 85 %, not condensing									
	Stock		0 - 60°C / 20 - 85 %, not condensing									
	Transport		-25 - 60°C / 20 - 85 %, not condensing									
Approvals			CE, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, EAC, BIS, BSMI, KC-Mark, RCM									
<b>Operation panel</b>												
Colored LCD touch display	Screen diagonal	"	4.3									
	Resolution Width x Height	px	272 x 480									

<sup>1)</sup> The material specifications are standard values. Applications with small labels, thin, slim, thick and stiff materials as well as strongly adherent labels have to be tested.

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

# Technical data

■ standard □ option

Setup options		
Print Labels Ribbon Tear-off Cut Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter	
Status bar		
Data reception Record data stream Ribbon pre-warning SD memory card plugged USB memory stick plugged	Bluetooth WLAN Ethernet USB slave Time	
Monitoring		
Ribbon pre-warning End of ribbon End of material	Periphery error Print head voltage Print head temperature Print head open	
Test routines		
System diagnostics	on start-up, including print head detection	
Information display, test printout, analysis	Status printout Fonts list List of devices WLAN status	Test grid Label profile List of events Monitor mode
Status reports	- Printout of device settings, e.g. print lengths and service hours - Device status request by software command - Display of, e.g., network errors, no links, barcode errors, periphery errors, 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	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
to be stored	TrueType fonts	
Character sets	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese simplified Chinese traditional Thai  Cyrillic Greek Latin Hebrew Arabic	
Bitmap fonts	Widths and heights 1 - 3 mm Zoom factors 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 types	
Character spacing	variable or monospace	

Graphics		
Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled or filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
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	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code GS1 QR code GS1 DataMatrix PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, stacked omni-directional	All codes are variable in terms of height, modular width and ratio; orientations 0°, 90°, 180°, 270° check digit, plain text printout and start / stop code are options depending from the type of code
Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
Also running with	CODESOFT NiceLabel BarTender	
Stand-alone operation		■
Windows printer drivers WHQL certified 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	from version 10.6	
Linux printer drivers	from CUPS 1.2	
Programming	JScript printer language abc Basic Compiler	■ ■
Integration	SAP Database Connector	■ ■
Emulation	ZPL (Datastream to be tested in advance)	□
Administration	Printer control Configuration in Intranet and Internet Network Manager (in preparation)	■ ■ ■

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