# Types

## One concept, two sizes

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





# *EOS*2, 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 |       |

## **eo**S5 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





## **eo**S2 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 |

# **eo**\$5 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 |

# **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.

#### 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.

#### 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

USB slot for the Service Key or a memory stick,

to load data in the IFFS storage

to load data in the IFFS storage

**Operation:** Cutter / perforation cutter: cutting Tear-off mode: print label

Jump to menu

🕼 Stop and delete all print jobs

Reprint last label

🚺 Label feed

Interrupt and continue print job





- 1 for a SD memory card
- 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

|   |  | 1.1  | 1.  | 2  | 1.3  | 1.4                  |  |
|---|--|--|---|--|--|----------------------|--|
| Label printer   | Туре   | EOS 2  | EO  | S 5  | EOS 2 mobile   | EOS 5 mobile         |  |
| Material feed   |  |  |   | cent   | ered   |                      |  |
| Printing  | Thermal transfer   | •  |   |  | •  | •                    |  |
| method  | 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 centered   |   | 105.7  |  |                      |  |
| Start of printing  Material <sup>1)</sup>   | Distance to locating edge mm   |  |   | centi  | ereu   |                      |  |
| Paper, cardboard,   |  |  |   |  |  | _                    |  |
|   | PI, PVC, PU, acrylate, Tyvec   | •  |   | •  | •  | •                    |  |
| Shrink tubes  | ready-for-use  | •  |   | )  | -  | _                    |  |
|   | continuous, pressed  | •  |   |  | -  | -                    |  |
| extile tapes  |  | •  |   |  | •  | •                    |  |
| Packing   | on rolls, reels  |  | •   |  | •  | •                    |  |
|   | Fanfold  | 152  |   |  | -  | -                    |  |
|   | Roll diameter up to mm  Core diameter mm   | 152  | 20  | 38.1   | 152  | 203                  |  |
|   | Core diameter mm<br>Winding  |  |   | outside o  |  |                      |  |
| abels   | Width single-lane mm   |  |   | 10 -   |  |                      |  |
|   | multi-lane mm  |  |   |  | 116  |                      |  |
|   | Height excl. label backfeed from mm  |  |   | 5  |  |                      |  |
|   | incl. label backfeed from mm   |  |   | 1  | 2  |                      |  |
|   | Thickness mm   |  |   | 0.05   | - 0.6  |                      |  |
| iner material   | Width mm   |  |   | 25 -   |  |                      |  |
|   | Thickness mm   |  |   | 0.05 -   |  |                      |  |
| ontinuous material  |  |  |   | 5 - 1  |  |                      |  |
|   | Thickness mm   |  |   | 0.05   |  |                      |  |
| hrink tubes   | Weight (cardboard) up to g/m² Width ready-for-use up to mm   |  |   | 12   |  |                      |  |
| III III K LUDES   | continuous, pressed mm   |  |   | 5 -  |  |                      |  |
|   | Thickness up to mm   |  |   | 1.   |  |                      |  |
| ?ibbon²)  | Ink side   |  |   | outside o  |  |                      |  |
|   | Roll diameter up to mm   | 72   |   |  |  |                      |  |
|   | Core diameter mm   |  |   | 25   | .4   |                      |  |
|   | Variable length up to m  | 360  |   |  |  |                      |  |
|   | Width mm   |  |   | 25 -   | 114  |                      |  |
|   |  |  |   |  |  |                      |  |
|   | eights   | 252101222  | 26424   | 17412  | 252101222  | 204 247 412          |  |
| /idth x Height x Dep  | eights<br>th mm  | 253 x 191 x 322  | 264 x 24  |  | 253 x 191 x 322  | 264 x 247 x 412      |  |
| Vidth x Height x Dep<br>Veight  | eights<br>th mm<br>kg  | 253 x 191 x 322<br>4   | 264 x 2 <sup>4</sup>  |  | 253 x 191 x 322<br>4   | 264 x 247 x 412<br>5 |  |
| Vidth x Height x Dep<br>Veight<br>.abel sensor indica   | eights<br>th mm<br>kg  | 4  | 5   |  | 4  | 5                    |  |
| Printer sizes and we<br>Width x Height x Dep<br>Weight<br>.abel sensor indicat<br>Gap sensor<br>Reflective sensor   | th mm kg   | 4  | s and end of ma   | terial, print m  | 4<br>arks on transparant mater   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>a <b>bel sensor indica</b> t<br>Gap sensor<br>Reflective sensor   | th mm kg ting the position   | 4<br>labels or punch mark  | s and end of ma   | terial, print m  | 4<br>arks on transparant mater<br>nsparent materials   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indication<br>iap sensor<br>Reflective sensor<br>Distance of sensor<br>Material passage   | ting the position  reflex from below or top  | 4<br>labels or punch mark  | s and end of ma   | terial, print m  | 4<br>arks on transparant mater<br>nsparent materials<br>58   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indication<br>iap sensor<br>deflective sensor<br>distance of sensor<br>daterial passage<br>lectronics   | ting the position  reflex from below or top for from centre to locating edge centered mm up to mm  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4  | 4<br>arks on transparant mater<br>nsparent materials<br>58   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicat<br>ap sensor<br>eflective sensor<br>istance of sensor<br>laterial passage<br>lectronics<br>rocessor 32 bit cloc   | ting the position  for reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4  | 4<br>arks on transparant mater<br>nsparent materials<br>58   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicat<br>Sap sensor<br>Reflective sensor<br>Distance of sensor<br>Material passage<br>Rectronics<br>Processor 32 bit cloc<br>Main memory (RAM)  | ting the position  for reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4<br>80<br>25  | 4<br>arks on transparant mater<br>nsparent materials<br>58   | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>Label sensor indicate<br>Sap sensor<br>Reflective sensor<br>Distance of sensor<br>Material passage<br>Rectronics<br>Processor 32 bit cloc<br>Main memory (RAM)<br>Data memory (IFFS)  | ting the position  for reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  MB  MB  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4<br>80<br>25  | 4 arks on transparant mater nsparent materials 58 0 6  | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicators<br>cap sensor<br>deflective sensor<br>distance of sensor<br>Auterial passage<br>clectronics<br>Processor 32 bit clocators<br>dain memory (RAM)<br>data memory (IFFS)<br>slot to connect a SD   | th mm kg ting the position reflex from below or top for from centre to locating edge centered mm up to mm k rate MHz MB memory card (SDHC, SDXC) up to GB  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4<br>80<br>25  | 4 arks on transparant mater asparent materials 58 0 6 0 2  | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indication<br>iap sensor<br>ieflective sensor<br>vistance of sensor<br>daterial passage<br>lectronics<br>rocessor 32 bit clocation memory (RAM)<br>to tata memory (IFFS)<br>lot to connect a SD<br>eattery for time and   | th mm kg ting the position reflex from below or top for from centre to locating edge centered mm up to mm k rate MHz MB memory card (SDHC, SDXC) up to GB date, real-time clock  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>ks on non-trai<br>0 -<br>4<br>80<br>25<br>50  | 4 arks on transparant mater asparent materials 58  | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicate<br>Sap sensor<br>Selective sensor<br>Sistance of sensor<br>Material passage<br>Selectronics<br>Main memory (RAM)<br>Select to connect a SD<br>Select to connect a SD<br>Select of time and<br>Select memory when p   | th mm kg ting the position reflex from below or top for from centre to locating edge centered mm up to mm k rate MHz MB memory card (SDHC, SDXC) up to GB  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>«s on non-trai<br>0 -<br>4<br>80<br>25<br>51  | 4 arks on transparant mater asparent materials 58  | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicat<br>ap sensor<br>effective sensor<br>istance of sensor<br>laterial passage<br>lectronics<br>rocessor 32 bit cloc<br>lain memory (RAM)<br>ata memory (IFFS)<br>lot to connect a SD<br>attery for time and<br>lata memory when paterfaces  | th mm kg ting the position  reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  MB  MB  memory card (SDHC, SDXC) up to GB date, real-time clock power is switched off (e.g. serial numbering)  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>«s on non-trai<br>0 -<br>4<br>80<br>25<br>51  | 4 arks on transparant mater asparent materials 58  | 5                    |  |
| Vidth x Height x Dep<br>Veight<br>abel sensor indicate<br>ap sensor<br>effective sensor<br>istance of sensor<br>laterial passage<br>lectronics<br>rocessor 32 bit cloc<br>latin memory (RAM)<br>ata memory (IFFS)<br>lot to connect a SD<br>attery for time and<br>total memory when parterfaces<br>S232C 1,200 to 230,   | th mm kg ting the position  reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  MB  MB  memory card (SDHC, SDXC) up to GB date, real-time clock power is switched off (e.g. serial numbering)  | 4<br>labels or punch mark  | s and end of ma   | terial, print m<br>«s on non-trai<br>0 -<br>4<br>80<br>25<br>51  | 4 arks on transparant mater asparent materials 58  | 5                    |  |
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| Vidth x Height x Dep<br>Veight<br>abel sensor indicat<br>ap sensor<br>effective sensor<br>vistance of sensor<br>laterial passage<br>lectronics<br>rocessor 32 bit cloc<br>lain memory (RAM)<br>that a memory (IFFS)<br>lot to connect a SD<br>attery for time and<br>ata memory when pateriaces<br>S232C 1,200 to 230,<br>ISB 2.0 Hi-speed dev<br>thernet 10/100 BAS<br>x USB host on the b   | ting the position  for reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  MB  MB  MB  MB  MB  MB  MB  MB  MB  M   | labels or punch mark<br>labels and end of ma<br>LPD, IPv4, RawIP prin<br>TIME, NTP, Zeroconf,<br>Service Key or USB m<br>Service Key, USB me   | s and end of ma<br>terial, print mark<br>ting, DHCP, HTT<br>SOAP web servi<br>emory stick<br>nory stick, keyb   | terial, print m  s on non-trai  0 -  4  80  25  51  FP/HTTPS, FTI ce, VNC                                | arks on transparant materials sparent materials s8   | 5                    |  |
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| Width x Height x Dep Weight  abel sensor indication in the processor of sensor laterial passage lectronics  Incomparison in the processor 32 bit clock dain memory (RAM) leat a memory (IFFS) lot to connect a SD lattery for time and leat a memory when processor 32 bit clock dain memory when processor 32 bit clock dain memory when processor 32 bit clock dain memory when processor daily for time and leat a memory when processor daily for time and leat a memory when processor daily for time and leat a memory when processor daily for the processor daily fore        | th mm kg ting the position  reflex from below or top for from centre to locating edge centered mm up to mm  k rate MHz  MB  MB  memory card (SDHC, SDXC) up to GB date, real-time clock bower is switched off (e.g. serial numbering)  400 baud/8 bit vice to connect a PC  E-T  speration panel for eack of the device for GHz 802.11b/g/n GHz 802.11a/n/ac, cture Mode | LPD, IPv4, RawIP print TIME, NTP, Zeroconf, Service Key or USB me USB Bluetooth adapt  | s and end of ma<br>terial, print mark<br>terial, print mark<br>some web servi<br>emory stick<br>mory stick, keyb<br>er, USB WLAN st   | terial, print m ks on non-trai  0 -  4  80  25  51  P/HTTPS, FTI ce, VNC  oard, barcode ick, external o  | arks on transparant materials to the sparent m | 5                    |  |
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<sup>&</sup>lt;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.