

# Using the Documentation

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- ➡ The documentation is an essential part of the device it belongs to.  
Operating and service personnel must have access to the documentation and all other device documents supplied by the manufacturer at all times.
- ➡ Read topic section "Safety Notes".  
This contains general safety instructions and other general, but important information. How to use the device properly, possible operating dangers and general operating instructions are also described.  
In addition, this is where you can find information regarding the use and application areas of each individual manual.

## Copyright

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## Documentation structure

### Datapool, documentation object

The overall documentation is a part of the datapool, which is provided for the printer user and the service personnel on CD or other electronic media.

#### Datapool

This datapool includes:

- this printer documentation,
- the printer drivers and
- the software Adobe Acrobat Reader for reading and printing the documentation elements.

#### Printer doc

Here the overall documentation (abbr.: documentation) is to be understood as the printer documentation.

The printer documentation contains all the information which is required for using the product. Using the product means preparing it for use, putting it into operation, setting it up, the operation, servicing and maintenance, fault searching and the service for optional extensions, settings and repairs.

#### Doc object

The documentation object includes

- various printer families (printer series), consisting of different printer models (devices),
- standard and optional additions for the printer (options) and
- the printer language Easy Plug.

### Documentation concept

The wide range of products which must be documented and the demand for documentation distribution and use, both in electronic form (CD/Internet, PC) as well as in paper form, have resulted in the following documentation concept:

#### Structure

The documentation consists of

- topic sections (generally comparable to chapters),
- manuals (handbooks, instructions),
- link pages and the
- start page (start page of the CD documentation).

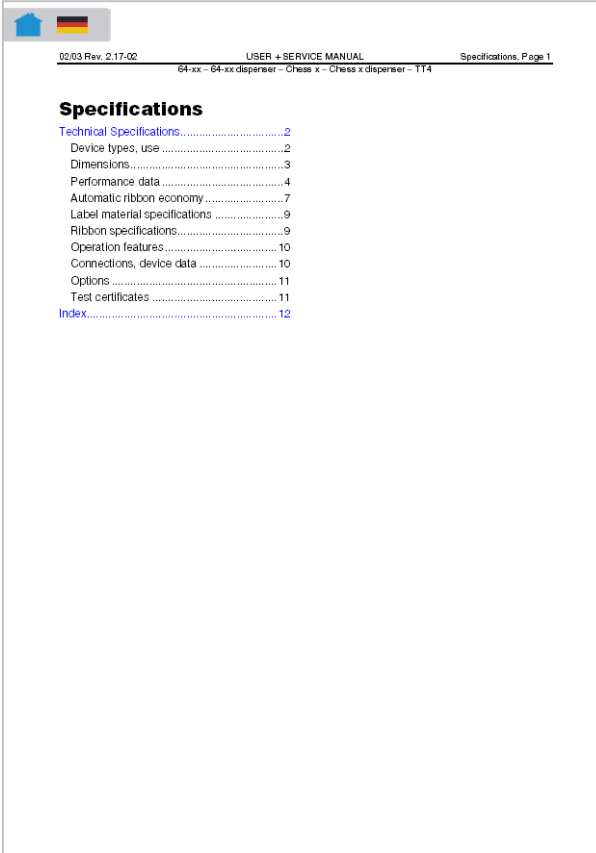


**Subject section**

Thematically-related subject contents are described in each topic section. A topic section is the smallest unit of information with its own

- page numbering,
- header bar,
- list of contents,
- index,
- device classification and
- its own revision status.

Subject sections form the basis of the manual. A topic section can be simultaneously assigned to several manuals. Subject sections are in one, in some cases two, languages.



|                                     |    |
|-------------------------------------|----|
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Fig. 1: Example: First page of topic section "Specifications"

**Manual**

A manual is composed of different topic sections. The following features characterize a manual:

- Title page with a list of contents, device classification and revision status (see Fig. 2:).
- The list of contents contains the designations of the topic sections and also serves as a link distributor to these topic sections.
- The contents of a manual refer to a certain device, a device family or an option (documentation object).
- A manual is assigned to a certain language and only contains topic sections in this language.

- A manual is assigned to a certain user group. There are *Service Manuals* (mainly for the Service), *User Manuals* (mainly for the user) and just *Manuals* (for Service and user).

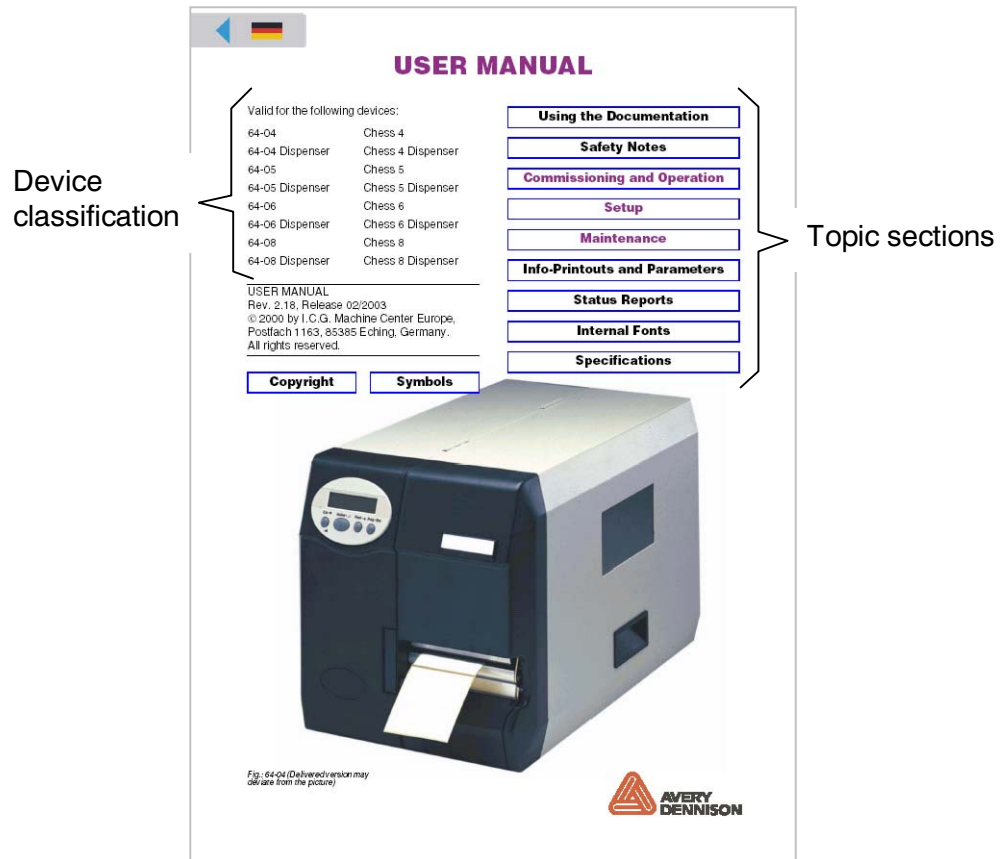


Fig. 2: Each Manual title page provides a list of topic section in its right half.

To a certain extent manuals are only virtual, as the same topic section can be simultaneously assigned to different manuals (the topic section physically only exists once).

Subject sections which are only assigned to a single manual are colour-coded on the title page of the manual (in the same colour as the title of the manual, see "Symbols and note signs").

## Link page

A link page is only an organisational component of the datapool available on electronic media. The following features characterize a link page:

- Assignment to a single language
- Function as a link distributor to the individual manuals (access to the overall documentation of the corresponding language)
- Function as a link distributor to other components of the datapool provided on the electronic medium (e. g. printer drivers and print and design software in the corresponding language)

**Start page**

The start page is also only an organisational component and is displayed when the CD starts, or on the Internet on the link to the printer datapool. The following features characterize a start page:

- Assignment is irrespective of the language or multilingual
- Function for the language selection made by the user
- Function as a link distributor to the link page with the selected language.

This gives the following documentation hierarchy:

**Hierarchy**

1. Start page (selection of the language)
2. Link page (selection of the manual)
3. Manual title page (selection of the topic section)
4. Subject section contents page (selection of the subtheme)

In most cases, the subtheme selected in step 4 equates to the information being searched for. For instance, the selection of the status number in the list of contents of the topic section leads straight to the description of this status number.

**Documentation format**

All elements of the printer overall documentation are in Adobe PDF (Portable Document Format). This has the following practical advantages:

**Printing**

- The documents can be printed in the required quality irrespective of the printer type and the fonts which are used.

**Memory**

- Less memory is required for saving the document due to differentiated data compression (faster loading, faster printing).

**Internet**

- Internet compatibility due to the relatively small amount of data.

**License**

- Simple distribution without the need to purchase licenses (Acrobat Reader licenses are provided free of charge by Adobe worldwide and in many languages).

**Platform**

- Can run on different platforms (Win/Mac)

**Links**

- Links within and between Acrobat documents, as well as links to documents in other formats and executable files.
- Other Acrobat Reader functions such as page returns, bookmarks, thumbnails, document-overlapping search function with an automated index, etc.
- More detailed information about the Acrobat Reader is contained in the Acrobat online help.

## Printing the documentation

In order to make the documentation readable without a PC, the documents can be printed in A4 as well as in Letter format. For printing, the Acrobat Reader uses the print capabilities of the platform it is run on. The layout of the printed documents equals the appearance on the monitor screen.

Mind the following hints before you start to print:

When printing several manuals, it is not necessary to print out all topic sections starting with the title page.

- Only print out the topic sections marked in black once. These topic sections are referenced from different Manuals. Physically, they consist of the same data.
- Always print out all subjects marked in purple. Reference is only made once in the respective manual to each purple topic section.

When printing all of only one manual, it is necessary to print out all topic sections in this manual starting from the title page.

### Example

- In order to print a *user manual*, proceed as follows:
  1. Print the title page.
  2. Click the topic sections on the right half of the title page one after the other. Print each topic section completely.
- In order to print the *service manual* additionally, switch to the title page of the service manual and only click the topic sections written in purple. Print those topic sections. The remaining black topic sections are already printed with the user manual.

### Text integration

It is also possible to integrate documentation text (and images) in other documents using the Windows clipboard. As a result, e. g. order information (spare part designations and part numbers) can be used simply and with no additional effort.

- ▶ Pay attention to copyright restrictions. Information on this subject can be found under "Copyright".

## Navigation aids







### Info search

The following options are available for quickly searching for information in the paper documentation:

- The title page of each manual with a list of contents of the topic section
- The detailed list of contents with page numbers on the first page of each topic section
- The own page numbering of each topic section
- The index at the end of each topic section.

### Links

In the top left corner of each title page and on the first page of each topic section, you find small graphics, which ease the change back to higher levels of the documentation (see Tab. 1:).

| Symbol  | Meaning   |
|---|---|
|    | <i>Triangle</i> : Link to the next higher page.<br><i>Flag</i> : Link to the german page of identical content. On the corresponding german page, a british flag symbolizes the cross-reference to the british page.       |
|    | <i>House</i> : Link to the link page.<br><i>Flag</i> : Link to the german page of identical content. On the corresponding german page, a british flag symbolizes the cross-reference to the british page.                 |
|    | <i>Arrow</i> : Link to the next higher level.   |
|    | <i>House</i> : Link to the link page of the same language. Is used instead of an arrow, if a link back to the next higher page is impossible; e.g., if the topic section in question is referenced to from several pages. |
|   | <i>Houses with flags</i> : Links to the link pages in different languages. Is used in bilingual topic sections (e.g. spare parts lists).  |

Tab. 1: Navigation aids can be found on the first pages of the PDF-documents.



## Symbols and note signs

### Safety notes

Safety notes are marked by a warning sign (exclamation mark in a triangle) at the left text margin and by a gray frame which encloses the warning sign and the warning text. Safety notes warn of a possibly dangerous situation. Injury is possible, if care is not taken.



#### CAUTION!

What is dangerous?  
What injuries could occur?

- Take care by...
- ...

### Symbols



Warning sign and arrow:  
This symbol combination is used to draw the attention to some important warning notes.  
If those warnings are ignored, material damage or data loss is possible.



Stop:  
Imperative! Read and pay attention!



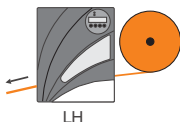
Note arrow: special note. Pay attention!



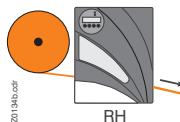
Tools required for the described service action.






Marks additional information, which has not necessarily to be read to operate the machine, but which improves the understanding for the described function.



Lefthand version (LH version): Symbol marking a text section which refers to the LH version of a device.  
(Only important for DPM, ALX 92x and Novexx PA-1x6)



Righthand version (RH version): Symbol marking a text section which refers to the RH version of a device.  
(Only important for DPM, ALX 92x and Novexx PA-1x6)

|   |  |
|---|--|
|    | CE label:<br>Documents the CE conformity of the device.                        |
|    | Recycling:<br>Notes about disposal. Pay attention to environmental protection! |
| Arrow at the right bottom corner: paragraph is continued on the following page.  |  |

### Text appearance

|  |   |
|--|---|
| 1. (Numbered) Action instructions, introductory text:<br>2. follow the sequence! |   |
| → Focus arrow: action instructions, sequence not stipulated.                     |   |
| • Focus point: feature, extra paragraph.   |   |
| ○ Focus circle: Reference to another text position or info source.               |   |
| ✓ Exists. Completed. Yes. Applies.   |   |
| <i>Italic text</i>   | Introductory text in safety instructions. Heed without fail in order to avoid possible injury and/or damage!<br><br>In Spare Parts Lists:<br>Comment, doesn't belong to the part designation. |
| <u>Blue underlined text</u>  | Link to other positions in the documentation (click). Exception: In lists of contents, the black text is also linked.   |

### Title page

|             |   |
|-------------|---|
| <b>Link</b> | Black text in the blue frame:<br>link to topic sections which occur several times in different manuals (click).   |
| <b>Link</b> | Purple text in the blue frame:<br>link to a topic section which only occurs once and belongs specifically to the manual (click).  |
| <b>Link</b> | Blue text in the blue frame:<br>A click on the text starts an executable program, e.g. the printer driver unpacking program starting from the "Manual printer driver" title page. |

## Abbreviations

|            |  |
|------------|--|
| AC         | Alternating Current  |
| Accu       | Accumulator  |
| APSF       | Automatic Product Speed Follower:  |
| ASIC       | Application Specific Integrated Circuit  |
| CCITT      | Comité Consultatif International Télégraphique et Téléphonique (international standardisation committee in the telecommunications field) |
| CD         | Compact Disk   |
| CE         | CE conformity label (CE: Communauté Européenne)  |
| CE         | Communautés Européennes: European Community  |
| CF card    | Compactflash card  |
| CN...      | Plug connector (on circuit boards)   |
| cos phi    | Power factor (rated output in VA x cos phi = true power in W)  |
| CPU        | Central processing unit  |
| CRC        | Cyclic redundancy check  |
| CRLF       | Carriage return line feed:   |
| CUT        | CUT button   |
| DB         | Data designator  |
| db(A)      | Decibel (assessed noise level at 7 m)  |
| DC         | Direct Current   |
| DCE        | Data communication equipment   |
| dd:mm:yyyy | day-month-year   |
| DEE        | Data terminal equipment DTE  |
| DFÜ        | Remote data transmission   |
| DIN        | Deutsches Institut für Normung e. V.: German Standards Institution   |
| Doc        | Documentation  |
| Dot/mm     | Dots per millimetre (printer definition)   |
| DPM        | Dispensing Printing Module   |
| DTE        | Data terminal equipment  |
| DÜE        | Data communication equipment DCE   |
| EEPROM     | Electrically Erasable Programmable Read-Only Memory:   |
| EIA        | Electronic Industry Association: national standards institution in the USA   |
| EMC        | Electromagnetic compatibility  |
| EN         | European standard  |
| ENTER      | ENTER button (acceptance, confirmation)  |
| EPROM      | Electrically Programmable Read-Only Memory:  |
| ERR        | Error: fault, malfunction  |
| EU         | European Union   |
| EVU        | Power supply company   |
| EWG        | European Economic Community EEC  |
| EXC Mode   | Extended alphanumeric compaction mode  |
| FEED       | FEED button  |
| FIFO       | First In First Out (batch memory principle)  |
| H          | Hexadecimal (also hex)   |
| hHour      |  |
| hh:mm:ss   | Hours-minutes-seconds  |
| HxWxD      | Height x Width x Depth (dimensions)  |
| Hz         | Hertz (frequency of alternating currency)  |
| I/O        | Input/Output   |
| IC         | Integrated Circuit   |
| ID         | Identification number  |
| IEC        | International Electrotechnical Commission  |

|             |  |
|-------------|--|
| Info        | Information  |
| IP...       | Internal Protection (protection rating: contact, foreign body and water protection in line with DIN VDE 40050)                                 |
| IR          | Infrared   |
| ISO         | International Standards Organization   |
| LCD         | Liquid Crystal Display   |
| LED         | Light Emitting Diode   |
| LS          | Photoelectric switch   |
| LSB         | Least significant bit  |
| LW          | Drive  |
| LWA         | Noise level in line with CEE Standard 535/536 (L: sound output level, W: power, A: assessed factor corresponding to the human hearing ability) |
| LxWxH       | Length x Width x Height (dimensions)   |
| MB          | Megabyte (memory capacity, 1 MB = 1024 Bytes)  |
| mm:ss       | Minutes-seconds  |
| MS          | Microsoft Corporation  |
| MSB         | Most significant bit   |
| NC          | Normally closed (opener)   |
| NMI         | Non-maskable interrupt   |
| NO          | Normally open (closer)   |
| OD sensor   | Outer diameter sensor: a sensor which checks the diameter of the material roll (ALX 924) and indicates the near material end.                  |
| OEM         | Original equipment manufacturer  |
| OLV         | Online verifier: a scanner which verifies the barcode immediately after printing.  |
| ON/OFFLINE  | ON/OFF button (switching between on-line/off-line)   |
| OSI         | Open Systems Interconnection (7 layer model)   |
| PC          | Personal computer  |
| Pot.        | Potentiometer  |
| PROM        | Programmable Read-Only Memory  |
| RAM         | Random-Access Memory   |
| REV         | Real effective value   |
| Rev.        | Revision (Ex.: Rev. 2.01-02 = CD/Internet Version 2.01, work status -02)   |
| RFID        | Radio Frequency Identification Device  |
| RMS         | Root mean square (actual value measurement)  |
| ROM         | Read-Only Memory   |
| RS232       | Recommended Standard Number 232: serial interface in line with US Standard EIA RS-232  |
| RS232C      | Recommended Standard Number 232, Revision C: serial interface in line with US Standard EIA RS-232-C  |
| RS485       | Recommended Standard Number 485: interface definition in line with US Standard EIA RS-485  |
| RUN         | Program run  |
| SCI         | Serial communication interface   |
| SELV        | Safety extra-low voltage: (in line with EN 60730)  |
| SP          | Spare part   |
| SPI         | Serial periphery interface   |
| SPS         | Programmable Logic Controller (PLC)  |
| tt:mm:jjjj  | Day-month-year   |
| TP          | Test point (e. g. measuring point on boards)   |
| Transponder | Tag with RFID antenna  |
| U/min       | Revolutions per minute (rotation speed)  |
| USI         | Universal Signal Interface   |
| V.24        | CCITT recommendation V.24 (definition of serial interface circuits)  |
| V.28        | CCITT recommendation V.28 (serial interface, electrical properties)  |
| VA          | Volt-ampere (apparent power)   |
| VBG         | Book of regulations issued by the German trade associations  |
| VDE         | Verband Deutscher Elektrotechniker e. V. (Association of German Electrical Technicians)  |

---

|       |  |
|-------|--|
| WP    | Wearing parts  |
| X     | X direction, X axis (printer: at right angles to feed direction) |
| Y     | Y direction, Y axis (printer: lengthwise to feed direction)      |
| Assy. | Assembly (assembled parts, module)                               |

## Printer names

If there is not enough space to call all printers by their full names, the abbreviated spellings listed in Tab. 2: are used.

| Spelling                   | Meaning   | Example, note  |
|----------------------------|---|--|
| 1050/XXL/105               | TTX 1050, Tiger XXL, S 105                      |  |
| 350/Ocelot                 | TTX 350, Ocelot                                 |  |
| 450/Puma/45                | TTX 450, Puma, S 45                             |  |
| 64-04/05                   | 64-04, 64-05                                    |  |
| 64bit series               | 64-xx, DPM, ALX 92x, Novexx PA-1x6              |  |
| 64-xx                      | all Avery 64bit types                           | 64-04, 64-05   |
| 650/Lion/65                | TTX 650, Lion, S 65                             |  |
| 950/Tiger/95               | TTX 950, Tiger, S 95                            |  |
| ALX 92x                    | ALX 924, ALX 925, ALX 926                       |  |
| Chess x                    | all Novexx 64bit types                          | Chess 4, Chess 5   |
| Chess 4/5                  | Chess 4, Chess 5                                |  |
| Novexx PA-1x6              | Novexx PA-146, Novexx PA-156, Novexx PA-166     |  |
| Ocelot/Puma/Lion/Tiger/XXL | Ocelot, Puma, Lion, Tiger, Tiger XXL            |  |
| S 45/65/95/105             | S 45, S 65, S 95, S 105                         |  |
| TDI                        | all TDI types                                   | TDI/STDI/XXTREME   |
| TDI/STDI/XXTREME           | TDI, STDI, XXTREME                              |  |
| TTX 350/450/650/950/1050   | TTX 350, TTX 450, TTX 650, TTX 950, TTX 1050    |  |
| TTX 67x                    | TTX 674, TTX 675                                |  |
| TTX x50                    | All Avery TTX x50 types <i>without</i> TTX 350  | TTX 350/450/650/950/1050<br>S 45/65/95/105<br>Ocelot/Puma/Lion/Tiger/XXL |
| Wildcats                   | All Novexx Wildcats types <i>without</i> Ocelot | Ocelot, Puma, Lion, Tiger, Tiger XXL                                     |
| Wildcats plus              | Puma plus, Lion plus                            |  |

Tab. 2: Abbreviated spelling of printers.

### Display messages

| Display, 4-figure | Meaning            | Example   |
|-------------------|--------------------|---|
| CDxx              | xx =2-figure value | CD parameter where<br>xx =cut distance (e. g. CD15) |

Tab. 3: Spelling of TTX x50 type display messages in the documentation.

### Parameters

| Menu item (4-figure display) | Meaning   |
|------------------------------|---|
| IFAC/PORT                    | Parameter PORT (interface type) in the menu IFAC<br>(interface parameter) |

Tab. 4: Spelling of TTX x50 type parameters in the documentation

| Menu item (32figure display) | Meaning  |
|------------------------------|--|
| INTERF. PARAM./ Interface    | Parameter "Interface" in the menu "INTERF. PARAM." |
| INTERF. PARAM.>Interface     |  |

Tab. 5: Spelling of 64bit type parameters in the documentation

# Index

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