



**Autotool 2000 CPK**

Operating Instructions



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## 1 Notes for the user

These Operating Instructions are very important for correct use of the device.

They contain important information and safety instructions that will enable you to utilise the product correctly and economically for its intended use.

The instructions help avoid hazards, reduce repair costs and downtimes, and enhance the dependability and durability of the device.

Non-compliance of any nature whatsoever can lead to accidents with fatal consequences, injury or damage to property.

### 1.1 Information about the product

Product designation: AT2000 CPK

Article number: 106-00000

### 1.2 Warranty

The warranty is in accordance with statutory requirements. Warranty entitlement applies only in the country in which the device was originally purchased.

Batteries, fuses and light sources are not covered by the warranty.

### 1.3 Contact data

The manufacturer of the product described in these Operating Instructions is:

HellermannTyton GmbH

Grosser Moorweg 45

D-25436 Tornesch, Germany

Tel. +49 4122 701-0

[www.HellermannTyton.de](http://www.HellermannTyton.de)

[info@HellermannTyton.de](mailto:info@HellermannTyton.de)

### 1.4 Information about these Operating Instructions

Last change: 20.11.2019

### 1.5 Copyright and intellectual property rights

The manufacturer retains the copyright to these Operating Instructions. Under no circumstances may these instructions be reproduced or electronically processed, replicated or disseminated, in whole or in part, without the prior written consent of HellermannTyton GmbH (hereinafter referred to as HellermannTyton). Any breach or infringement of these stipulations will result in liability for damages.

### 1.5.1 Keeping and dissemination of the Operating Instructions

These Operating Instructions must be kept in the immediate vicinity of the workplace and must be available at all times to all operating personnel. The operating company shall inform the operating personnel of the location of these Operating Instructions.

The operating company shall obtain replacement from the manufacturer if these instructions are, become or are rendered no longer easily legible.

If the device is acquired by or sold on to a third party the following documents must be handed over to the new owner:

- Operating Instructions
- Documents relating to repair work
- Logs of maintenance work undertaken
- ▶ Protect these Operating Instructions from moisture, direct sunlight and extreme heat.

### 1.6 Target group of these Operating Instructions

These Operating Instructions must be read and complied with by every person charged with any of the following tasks:

- Installation
- Operation
- Maintenance
- Repair
- Fault rectification

### 1.7 General information

Subject to technical modifications.

## 1.8 Conventions adopted in these Operating Instructions

### 1.8.1 Classification of the precautionary notices

Precautionary notices in these Operating Instructions draw attention to hazards associated with use of the device and indicate how they can be avoided.

The precautionary notices are subdivided into three groups according to the severity of the potential hazard:

 <b>DANGER</b>
Text accompanied by the signal word "DANGER" indicate hazardous situations which, in the event of non-compliance with the appropriate precautions, will cause death or severe injury.

 <b>WARNING</b>
Text accompanied by the signal word "WARNING" indicate hazardous situations which, in the event of non-compliance with the appropriate precautions, can cause death or serious injury.

 <b>CAUTION</b>
Text accompanied by the signal word "CAUTION" indicate hazardous situations which, in the event of non-compliance with the appropriate precautions, can cause slight or serious injury.

### 1.8.2 Other notational conventions

- ▶ Indicates an instruction
- Indicates a list
- ☑ Indicates the result of an action

**This text highlight** is used for names of menus, clickable on-screen buttons, pushbuttons and switches.

This text highlight is used for display messages.

→ This text highlight is used for cross-references.

<b>NOTE</b>
Texts accompanied by the signal word "NOTE" indicate situations which, in the event of non-compliance with the appropriate precautions, can cause damage to the device or the surroundings.

 Text accompanied by this symbol contain useful additional information.

## 2 Safety warnings

### 2.1 General power tool safety warnings

 The safety warnings in this section contain general power tool safety warnings to be set out in the Operating Instructions as required by EN 62841. Consequently, some instructions might not be relevant for the AT2000 CPK.

 <b>WARNING</b>
<b>Read all safety warnings and all instructions.</b> <i>Failure to follow the warning and instructions may result in electric shock, fire and/or serious injury.</i>

Save all safety warnings and other instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 2.1.1 Occupational health and safety

- a) **Keep your workplace clean and tidy and well illuminated.** Poor lighting or a lack of orderliness at the workplace can lead to accidents.
- b) **Do not work with the power tool in surroundings where there is a risk of explosion, where flammable liquids, gases or dust are present.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and other persons well clear while the power tool is in use.** Distractions can cause you to lose control of the power tool.

#### 2.1.2 Electrical safety

- a) **The plug of the power tool must match the socket outlet. Do not use a plug that has been modified in any way. Do not use an adapter plug together with a power tool that has a protective earth.** Unmodified plugs and matching socket outlets reduce the risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as those of pipes, radiators, cookers and refrigerators.** The risk of electric shock is higher when your body is earthed.
- c) **Protect power tools from rain and moisture.** Water penetrating into a power tool increases the risk of electric shock.
- d) **Never misuse the cable for carrying the power tool or hanging it up, or for pulling the plug out of the socket outlet.** Keep the cable away from heat, oil, sharp edges and moving parts.
- e) **When you work outdoors with a power tool, use only an extension lead that is suitable for outdoor use.** Using an extension lead that is suitable for outdoor use reduces the risk of electric shock.
- f) **If operation of a power tool in a damp environment is unavoidable, use a portable residual current device (PRCD).** Using a PRCD reduces the risk of electric shock.

### 2.1.3 Safety of persons

- a) **Stay alert, attend to the task in hand and use common sense when you work with a power tool. Do not use a power tool when you are tired or while under the influence of drugs, alcohol or medication.** *A moment of inattention while using a power tool can result in serious injuries.*
- b) **Wear appropriate personal protective equipment (PPE).** *Depending on the type of power tool and the way in which it is used, wearing PPE such as a dust mask, non-slip safety shoes, a hard hat and ear defenders reduces the risk of injury.*
- c) **Prevent accidental starting. Make sure that the power tool is switched off before you connect it to the power source and/or battery pack, and also before picking up or carrying the tool.** *Touching the switch while carrying the power tool or connecting the power tool to the electricity supply while it is switched on can lead to accidents.*
- d) **Remove adjusting tools or wrenches before switching the power tool on.** *A tool or wrench engaged in a part that starts to rotate when the power tool is switched on can cause injuries.*
- e) **Avoid adopting an awkward posture when working. Maintain a firm footing and keep your balance at all times.** *This will enable you to control the power tool better if an unexpected situation occurs.*
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing well away from moving parts.** *Loose clothes, jewellery or long hair can be snagged by moving parts.*
- g) **If it can be fitted, dust extraction and filtration equipment must be connected and used correctly.** *Using a dust extractor can reduce hazards associated with dust.*
- h) **Do not permit yourself to be lulled into a false sense of security and do not disregard the safety regulations for working with power tools, even after frequent or repeated use has made you familiar with the power tool.** *Carelessness can result in series injuries within a fraction of a second.*

### 2.1.4 Use and handling of the power tool

- a) **Do not overload the power tool. Use the correct power tool for the task in hand.** *Using the right power tool for the job will enable you to work better and in greater safety in the stated performance range.*
- b) **Never use a power tool that has a faulty switch.** *A power tool that cannot be switched on or off at the switch intended for this purpose is dangerous and must be repaired.*

- c) **Disconnect the plug from the socket outlet and/or remove the battery pack from the power tool before making adjustments, changing accessory tools or laying the power tool aside.** *This precaution prevents accidental starting of the power tool.*
- d) **When not in use, store power tools out of reach of children. Do not permit anyone to work with the power tool who is not familiar with it or has not read and understood these instructions.** *Power tools in the hands of inexperienced persons are dangerous.*
- e) **Keep power tools and accessory tools in good condition at all times. Check that moving parts are in full working order and do not jam. Check for parts that are broken or damaged to the extent that operation of the power tool is impaired. Have damaged parts repaired before using the power tool.** *Many accidents involving power tools are due to poor maintenance.*
- f) **Keep cutting tools sharp and clean.** *Carefully maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.*
- g) **Use the power tool, accessory tools, etc. in accordance with these instructions. Take working conditions and the task to be undertaken into account in this respect.** *Using power tools for other than the intended use can lead to hazardous situations.*
- h) **Keep handles and gripping surfaces dry, clean and free of oil and grease.** *Slippery handles and gripping surfaces do not permit safe operation and control of the power tool in unexpected situations.*

### 2.1.5 Service

- a) **Have your power tool repaired only by a qualified specialist using only the manufacturer's genuine spare parts.** *This ensures that the safety of the power tool is maintained.*

### 2.2 Intended use

Use the AT2000 CPK only when it is in full working order and safe, always be safety-conscious and aware of the hazards.

The AT2000 CPK is suitable for and intended for the following uses:

- Automatic binding of bundles up to a diameter of max. 80 mm
- Use indoors and, under rainproof roofing, outdoors
- Industrial use

### 2.3 Misuse

Use other than as stated in the section entitled "→ *Intended use*" on page 7" is misuse. The operator of the AT2000 CPK bears sole responsibility for injury and damage resulting from misuse.

The following are specifically prohibited:

- Use with faulty parts
- Use in explosive environments or in the presence of a fire hazard
- Use in high humidity and/or direct sunlight
- Simultaneous use by two or more persons
- Unauthorised alterations and modifications to the AT2000 CPK and its accessories without the prior consent of HellermannTyton
- Use of spare parts and accessories not tested and approved beforehand by HellermannTyton
- Operation of the AT2000 CPK with the housing open

### 2.4 Personnel qualification

Underage persons and trainees are permitted to use the device only under the supervision of an experienced specialist and only with the express permission of the operating company.

#### 2.4.1 Specialist personnel for operation

The tasks and authorisations assigned to specialist personnel for extended operation are as follows:

- Operating the AT2000 CPK
- Rectification of faults or, as applicable, initiation of measures for the rectification of faults
- Cleaning the AT2000 CPK

These individuals have the specialist training or practical experience that will ensure correct handling.

#### 2.4.2 Specialist personnel for maintenance and servicing

Always have maintenance and servicing carried out by duly qualified specialist personnel. These individuals have the specialist training that affords sufficient knowledge of the AT2000 CPK for them to judge when it is in safe working order.

These individuals are also familiar with the following rules and regulations:

- Applicable national health and safety regulations
- Accident prevention regulations
- Generally accepted rules of engineering practice (e.g. employers' liability insurance association codes, DIN standards, VDE regulations, technical rules of other European Union Member States or other signatories of the Agreement on the European Economic Area).

### 2.4.3 Qualified electrician

Work on the electrical supply and on parts that are live when the device is in operation should always be carried out by a trained electrician.

### 2.4.4 Authorised specialist for repair and testing

Only service technicians from HellermannTyton or service technicians certified by HellermannTyton are permitted to carry out repairs and safety checks.

#### a.1 Underlying hazards associated with use of the AT2000 CPK

### 2.4.5 Cleanliness at the workplace

Orderliness, good lighting and cleanliness at the workplace all help to make work easier, minimise hazards and reduce the risk of injury.

Always comply with the following principles of orderliness and cleanliness at the workplace:

- ▶ Put tools away as soon as they are no longer needed.
- ▶ Avoid trips (e.g. immediately dispose of waste by placing it in the containers provided for the purpose).
- ▶ Immediately remove spillages of grease, oil and other liquids.
- ▶ Clean smears off the controls.

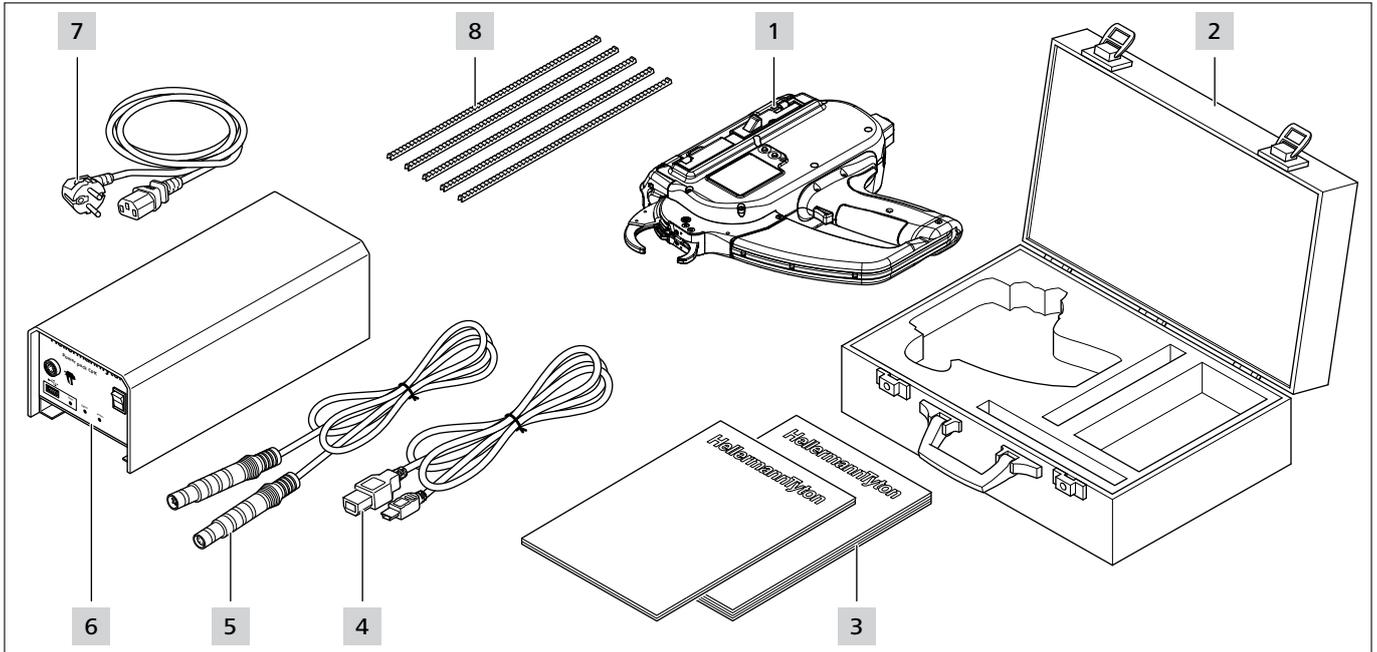
### 2.4.6 Spare parts and accessories

- ▶ Use only original replacement parts.
- ▶ After parts have been replaced, always check that everything is in full working order.
- ▶ Use only accessories approved by HellermannTyton. Accessories can affect the way in which the AT2000 CPK works.

### 3 Design and function

#### 3.1 Overview of the device

##### 3.1.1 Scope of supply

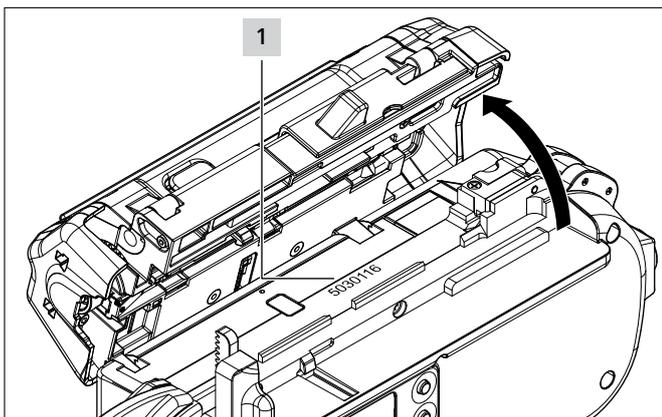


- 1 AT2000 CPK
- 2 Case, complete with 2 keys
- 3 Safety instructions CPK and short guide CPK
- 4 USB connecting cable A/B (separate delivery)
- 5 Connecting cable for connecting power pack and AT2000 CPK
- 6 power pack CPK (separate delivery)
- 7 Power cord (separate delivery)
- 8 Tie advancer

##### 3.1.3 Checking scope of supply

- ▶ Check that nothing is missing and that there are no visible signs of damage in transit or other damage. Have damage confirmed by the freight forwarder and notify HellermannTyton immediately in writing.

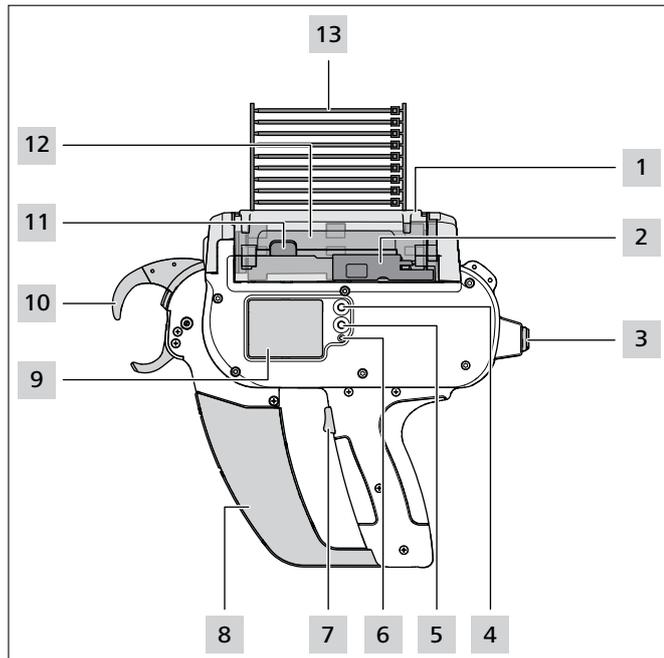
##### 3.1.2 Serial number



Serial number **1** is inside the AT2000 CPK. It is visible when the gate is open.

### 3.2 Functional description

#### 3.2.1 AT2000 CPK



- 1 Actuator service flap left
- 2 Actuator bandoleer cutter
- 3 Socket for connection to power pack
- 4 Enter button to confirm a selection in the navigation menu and increment switch for display settings
- 5 Select and reset button for selecting a menu for display settings
- 6 LED status indicator
- 7 Start trigger
- 8 Box for waste material
- 9 Display with touch-sensitive controls
- 10 Front cap with level sensor, upper and lower jaws
- 11 Catch
- 12 Drum
- 13 Cable tie bandoleer

The AT2000 CPK is an electrically powered system for bundling electrical wires, for example, and for securing parts of various kinds with T18RA cable ties, 100 mm x 2.5 mm x 1 mm (L x W x H).

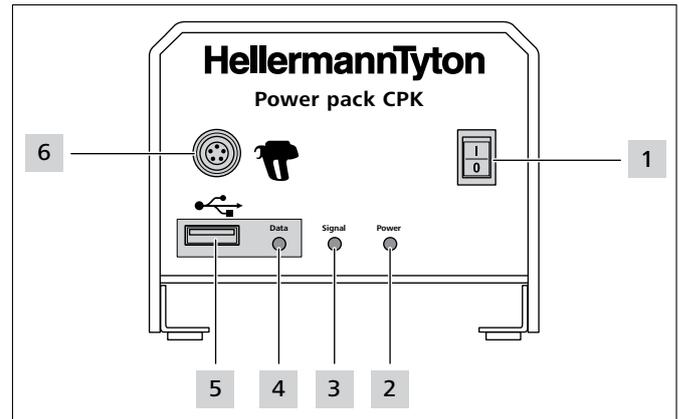
Force and quality of the binding can be software-controlled or set by means of the display on the device, → "Operation" on page 11.

The items to be bundled have to be positioned between the jaws and against the front cap. The device then closes the tie as soon as the trigger is pressed.

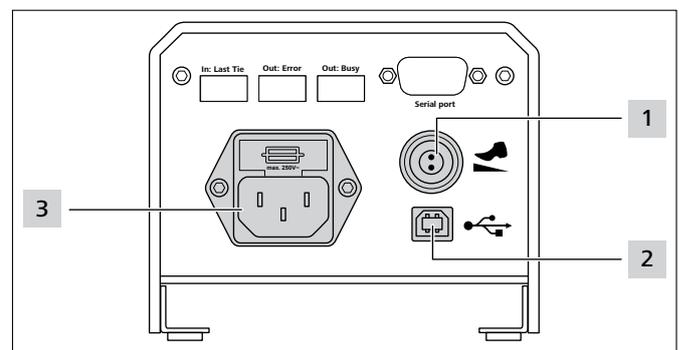
If a fault occurs, messages appear on the display to guide the user through the recommended fault-diagnosis routine, → "Troubleshooting" on page 29.

Process data of various kinds are collected during use. These data can be analysed by PC software and used to document process capability, for example. In addition, the operator is notified if the tension force exceeds the preset, → "HT Data Management" on page 17.

#### 3.2.2 Power pack CPK



- 1 Main switch
- 2 LED indicator **Power**:  
Green: Power pack ON
- 3 LED indicator **Signal**:  
Green: AT2000 CPK connected and ready,  
Red: Fault  
Yellow: Binding cycle active  
Blue: Navigation in main menu, binding not possible
- 4 LED indicator **Data**:  
Green: PC connected; AT2000 CPK connected; USB stick found; USB stick can be removed,  
Red/blue flashing: Data are being written to USB stick
- 5 USB port for exporting process data to USB memory stick
- 6 Socket for connection to AT2000 CPK



- 1 Socket for foot pedal
- 2 USB port for connection to PC (for the HTDM)
- 3 Socket for power supply

**i** In automatic systems, the AT2000 CPK can be integrated with the separate power pack with control box (106-00110) via a serial interface.

## 4 Transport, disposal and storage

### 4.1 Transporting the device

- ▶ Always use the case that comes with the device to transport the AT2000 CPK.

### 4.2 Disposal

End-of-life (EOL) disposal of the device and individual subassemblies and the disposal of consumables and auxiliaries are subject in part to statutory regulations. Detailed information is available on request from the appropriate authorities (e.g. regional or national water boards or environmental authorities).

- ▶ Dispose of packaging materials.

 Always dispose of packaging materials in accordance with the currently valid materials-disposal and environmental protection regulations.

- ▶ Always take materials for disposal to certified collection points.
- ▶ Contact the manufacturer if there is any uncertainty regarding disposal.

### 3.1 Storage

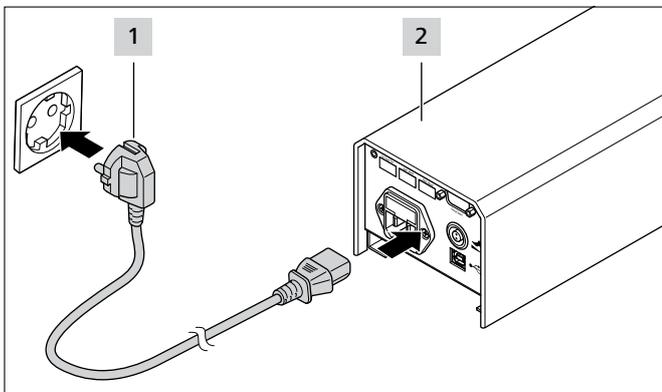
- ▶ Store the tool and the power pack in a cool, dry place.
- ▶ Avoid direct sunlight.
- ▶ Store the tool and the power pack in dustproof packaging.
- ▶ Store electrical components (tool and power pack) in impact-absorbing packaging and separately from the accessories.
- ▶ Consult and comply with the appropriate data sheets for storage of the accessories.

## 5 Installation

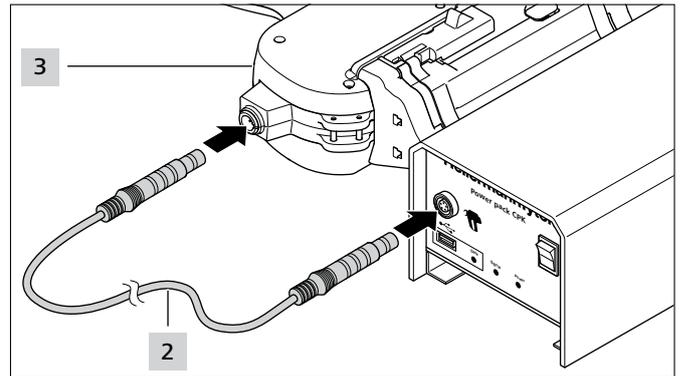
### 5.1 Installing the accessories

- ▶ Always proceed in accordance with the instructions supplied with the accessory in question.

### 5.2 Connecting the device



- ▶ Connect power pack 2 to power-supply outlet 1.



- ▶ Use connecting cord 2 to connect the power pack to tool AT2000 CPK 3.

## 6 Operation

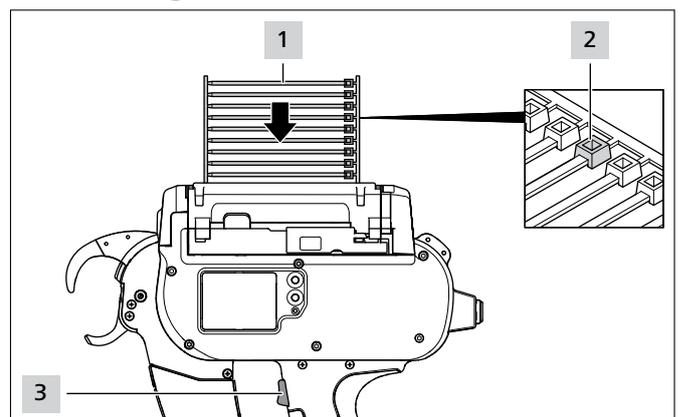
### 6.1 Switching on

- ▶ The power-supply outlet must be readily accessible so that the power pack and the AT2000 CPK can be de-energised if the need arises.
- ▶ Keep the main switch OFF when the AT2000 CPK is not in use or being replaced.
- ▶ Switch the power pack ON at the main switch.
- The **Signal** and **Power** LEDs on the power pack illuminate in green.
- The LED status display on the AT2000 CPK lights up green.
- The start menu appears on the display, → "Settings in the display menu" on page 12.
- The AT2000 CPK is ready for use.

### 6.2 Switching off

- ▶ Switch the power pack OFF at the main switch.

### 6.3 Loading cable ties

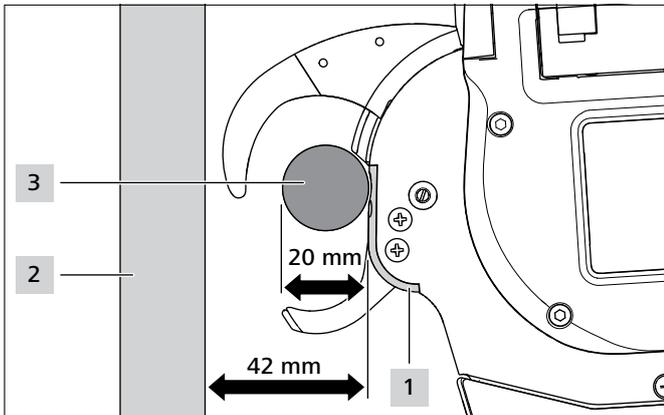


- ▶ Insert cable tie bandoleer 1 parallel with the drum.
- Make sure that cable-tie heads 2 are facing up.
- ▶ Press the trigger 3.
- ▶ If there are no cable ties in the device three blank shots are fired.
- The cable ties are loaded.

### 6.4 Positioning and binding items for bundling

- ▶ Select the **Force level** and/or **Quality** parameters, → "Accessing the parameter set" on page 13 or → "Select parameter set" on page 19.
- ▶ Check the time and date; set if necessary, → "Date / time" on page 16.

The device is suitable for the following bundle geometries:

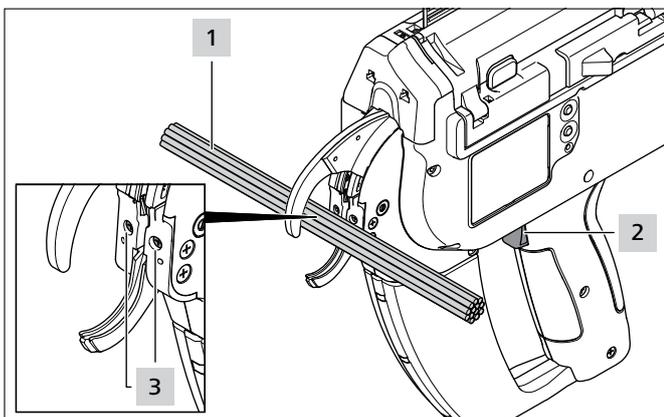


The distance from front cap **1** to flat **2** must be at least 42 mm. Bundle **3** can be no more than 20 mm in diameter.

**⚠ CAUTION**

**Crush hazard when jaws close.**

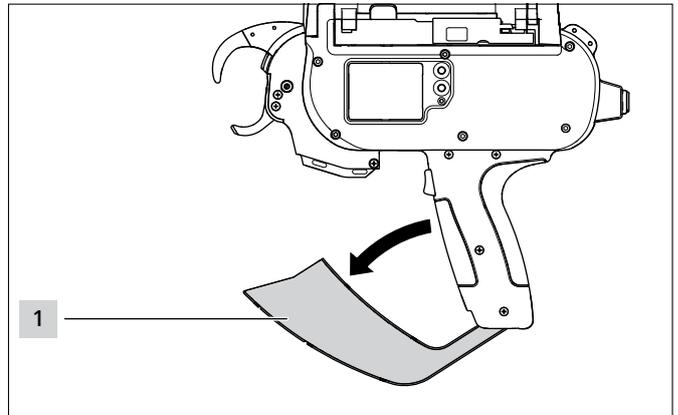
- ▶ Do not insert fingers between upper and lower jaws and do not keep your finger on the trigger.
- ▶ Always keep the power pack switched OFF when clearing a blockage.



- ▶ Centre the bundle **1** in line with front-cap screws **3**. Space adjacent cable ties at least 10 mm apart.
- ▶ Press the trigger **2**.
- ☑ The bundle **1** is secured by the cable tie.

### 6.4.1 Emptying the waste box

The waste box has to be emptied after a maximum of 120 bindings at a bundle diameter of 3 mm. As the bundle diameter increases, so does the number of bindings until the waste box has to be emptied.

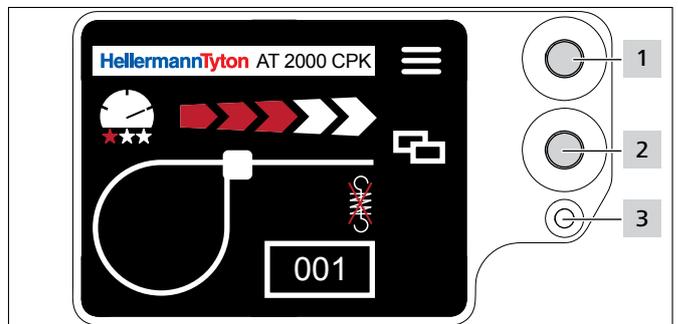


- ▶ Pull waste box **1** in the direction indicated by the arrow and empty the box.
- ▶ Close the waste box **1**.

## 7 Settings in the display menu

After switching on the AT2000 CPK at the connected power pack, the start screen appears on the display.

**i** The additional device functions (e.g. clock time) are configured on the main menu, → "Settings in the main menu" on page 15.



- 1 Enter button to confirm a selection in the navigation menu and increment switch for display menu settings
- 2 Select and reset button for AT2000 CPK settings in the display menu
- 3 LED status indicator **Signal**:  
Green: AT2000 CPK connected and ready  
Red: Error

The functions for setting the bindings with the AT2000 CPK can be directly accessed and configured in the display menu.

These include:

- Parameter set
- Force level
- Binding quality
- Loop diameter
- Cutting mode
- Cut with the tension released

- ▶ Use the Select button **2** to select the desired setting in the display menu.
- ▶ Press the Enter button **1**.
- ▶ Press the Enter button **1** several times to return to the start screen.
- ▶ Check the LED status indicator **3**, → "Troubleshooting" on page 29.

**i** A printed short guide is included with the AT2000 CPK which schematically explains how to configure the functions.

## 7.1 Accessing the settings

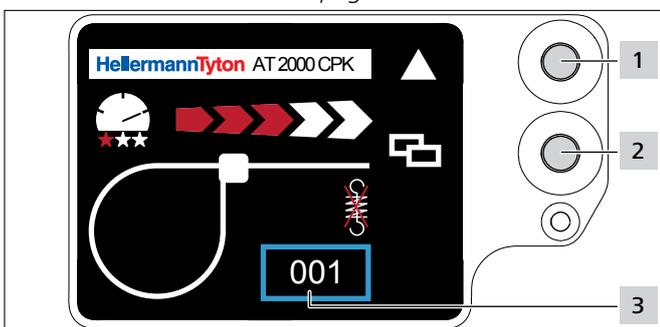


- ▶ Press the Select button **2**.
- ☑ The access code settings are displayed, → "Settings menu" on page 15.
- ☑ Access to the **Settings** menu is protected by a three-digit access code that can be changed in the HT Data Management software, → "Changing the access code in the AT2000 CPK" on page 20.

**i** The default access code is 000. When configuring settings in the display menu, the start screen will be displayed after 10 seconds of inactivity.

## 7.2 Accessing the parameter set

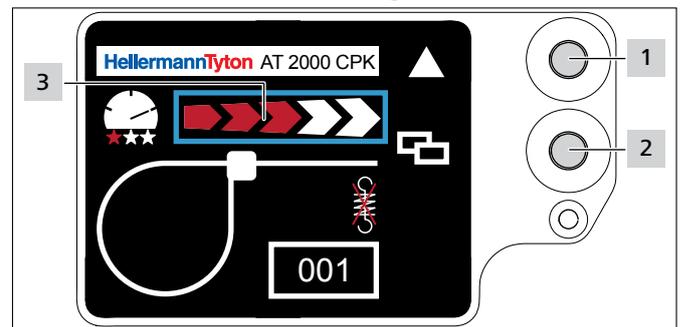
The preset parameter sets can be accessed or transferred to the AT2000 CPK when the HTDM is connected. The parameter sets comprise settings which are gathered into groups. They are managed in the HTDM, → "Parameter set menu" on page 17.



- ▶ Access the settings, → "Accessing the settings" on page 13.
- ▶ Press the Select button **2**.
- ▶ The parameter set **3** is indicated with a blue border.
- ▶ Press the Enter button **1** until the desired parameter set **3** is displayed.
- ☑ The settings of the selected parameter set are displayed.

## 7.3 Setting the force level

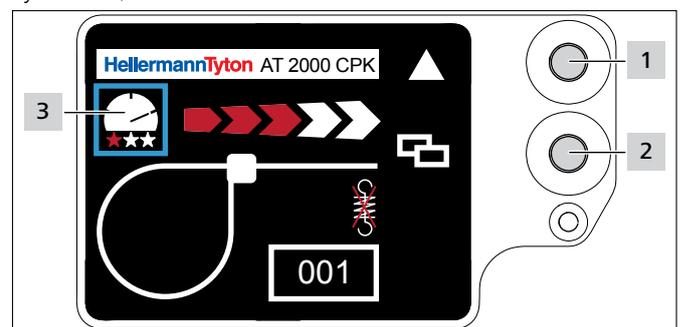
The setting corresponds to the force applied by the AT2000 CPK when binding, and it can be set from Level 1 (lowest force) to Level 5 (highest force).



- ▶ Press the Select button **2**.
- ▶ The force level **3** is indicated with a blue border.
- ▶ Press the Enter button **1** until the desired force level is reached.
- ☑ The force level **3** is indicated by the number of red arrows.

## 7.4 Setting the binding quality

The setting corresponds to the quality of binding and it can be set from Level 1 (lowest quality) to Level 3 (highest quality). The higher the level the longer the cycle time, so the bundle has more time to settle.

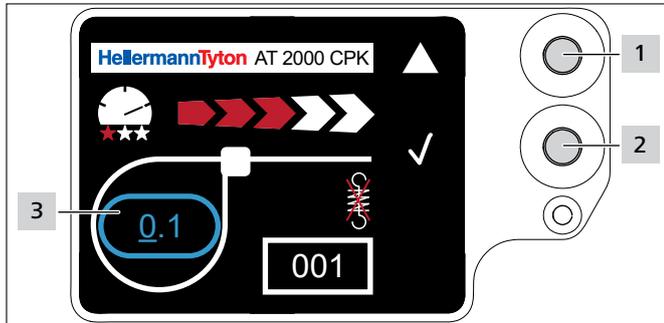


- ▶ Press the Select button **2**.
- ▶ The binding quality **3** is indicated with a blue border.
- ▶ Press the Enter button **1** until the desired binding quality is reached.
- ☑ The binding quality **3** is indicated by the number of red stars.
- ☑ The binding speed is indicated by the "speedometer needle" position.

### 7.5 Setting the loop diameter

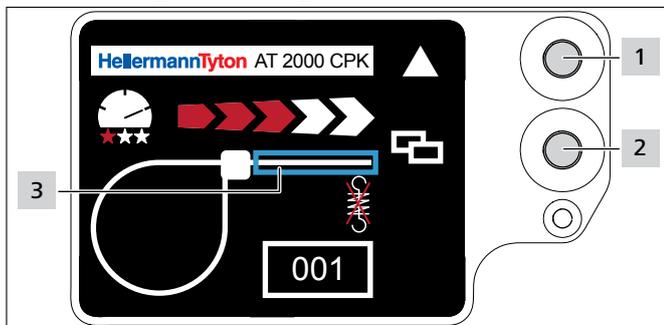
The actual diameter may deviate from the set value as the gearing and the state of the tool and processing material have an impact on the binding.

**i** Make sure that the binding does not produce a circular loop.



- ▶ Press the Select button **2**.
- ☑ The loop diameter **3** is indicated with a blue border.
- ▶ Press the Enter button **1**.
- ☑ The loop diameter value is activated.
- ▶ Press the Select button **2**.
- ☑ The adjustable value is underlined.
- ▶ Press the Enter button **1** several times until the desired value is displayed.
- ▶ Press the Select button **2**.
- ☑ The selection jumps forward one digit.
- ▶ Repeat the setting until the desired values is reached.

### 7.6 Setting the cutting mode



#### Flush cutting

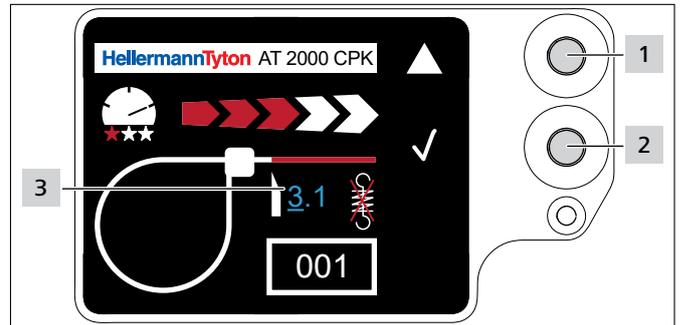
- ▶ Press the Select button **2**.
- ☑ The strip section **3** is indicated with a blue border.
- ▶ Press the Enter button **1** to activate flush cutting.
- ☑ No strip section is displayed when flush cutting is activated.

#### Cut-free binding

- ▶ Press the Enter button **1** to deactivate flush cutting.
- ☑ The projecting cable-tie end is indicated with a blue border.

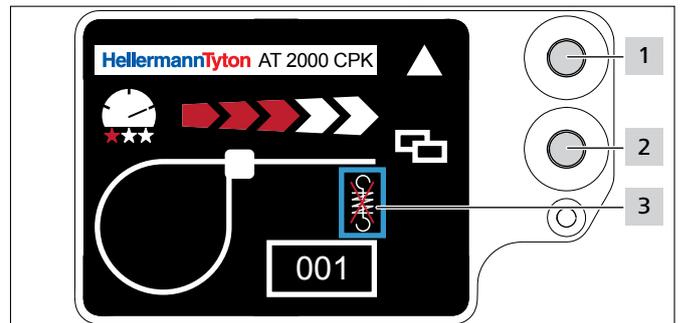
### Projecting cable-tie ends

The actual projecting cable-tie end may deviate from the set value as the gearing and the state of the tool and processing material have an impact on the binding.



- ▶ Press the Select button **2**.
- ▶ Press the Enter button **1** to activate the projecting cable-tie end value.
- ☑ The adjustable value **3** is underlined.
- ▶ Press the Enter button **1** several times until the desired value is displayed.
- ▶ Press the Select button **2**.
- ☑ The selection jumps forward one digit.
- ▶ Repeat the setting until the desired values is reached.

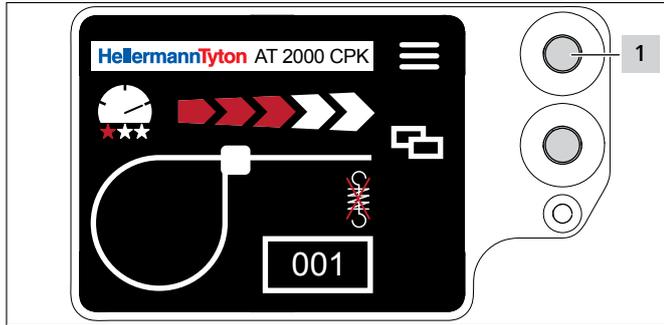
### 7.7 Setting tension-free cutting



- ▶ Press the Select button **2**.
- ☑ Tension-free cutting **3** is indicated with a blue border.
- ▶ Press the Enter button **1**.
- ☑ Tension-free cutting is indicated with a crossed-out tension spring.
- ▶ Press the Enter button **1** to deactivate tension-free cutting.
- ▶ Press the Select button **2** to finish configuring the settings.

## 8 Settings in the main menu

After switching on the AT2000 CPK at the connected power pack, the start screen appears on the display.



1 Enter button to confirm a selection in the navigation menu and increment switch for display menu settings

The main menu in the AT2000 CPK enables the configuration of additional device functions.

The menu covers:

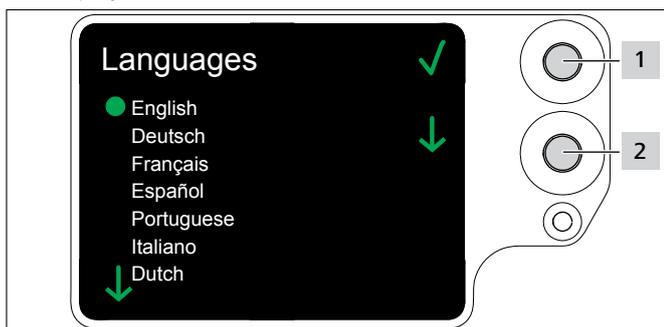
- Languages settings in the display, → "Languages menu" on page 15
- Device status, e.g. counter reading of the bindings or firmware version, → "Status menu" on page 15
- Settings, e.g. date / time, → "Settings menu" on page 15
- Contact, → "Contact menu" on page 16

**i** Bindings cannot be triggered while you are navigating in the main menu. The **Signal** LED on the power pack shows blue.

- ▶ Press the Enter button **1**.
- ☑ The **Main menu** appears on the display.

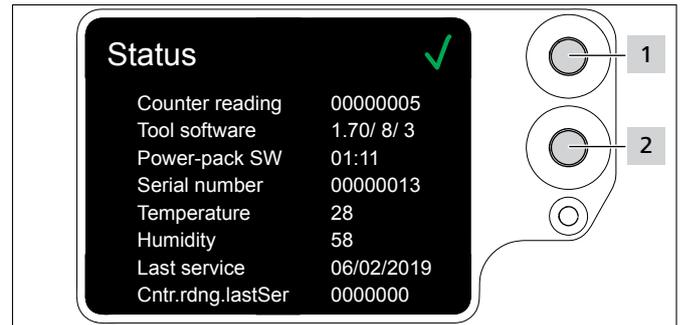
### 8.1 Languages menu

You use the **Languages** menu to select the language for the displays.



- ▶ Use the Select button **2** to select the language.
- ▶ Press the Enter button **1**.
- ☑ The display switches to the language you selected.
- ☑ The **Main menu** appears on the display.

### 8.2 Status menu



The **Status** menu shows you the following status readings:

- Counter reading
- Software version of the AT2000 CPK and an index number for the language version
- Software version of the power pack
- Serial number of the tool
- Ambient temperature and humidity
- Date of last service
- Counter reading at last service

- ▶ Press the Enter button **1**.
- ☑ The **Main menu** appears on the display.

### 8.3 Settings menu

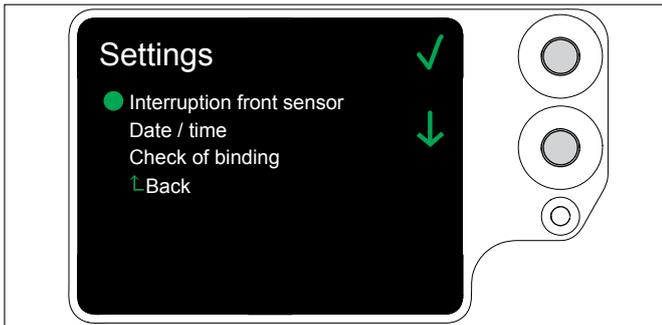
You use the **Settings** menu to set important parameters of the AT2000 CPK.

**i** Access to the **Settings** menu is protected by a three-digit access code that can be changed in the HT Data Management software, → "Changing the access code in the AT2000 CPK" on page 20. The default access code is **000**.

- ▶ Use the Select button in the **Main menu** to select the **Settings** menu.
- ▶ Press the Enter button.
- ☑ The prompt for the access code appears on the display.



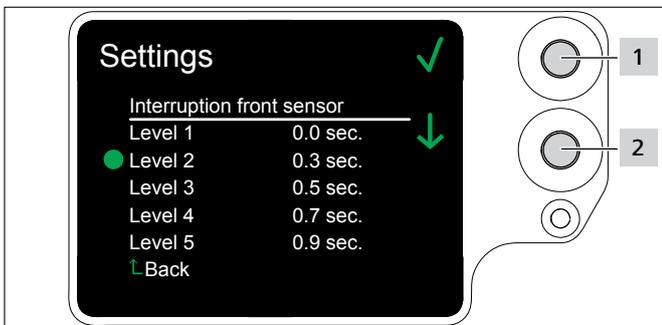
- ▶ Press the Select button **2**.
- ▶ After reaching the desired number, press the Enter button **1**.
- ☑ The selection **↑** jumps forward one digit.
- ▶ Repeat the setting until the desired access code is set.
- ▶ Press the Enter button **1**.
- ☑ The **Settings** menu appears on the display.



### 8.3.1 Interruption front sensor

The **Interruption front sensor** setting enables you to decide how long the level sensor can remain busy without the **Error, front cap** message appearing on the display.

**i** This function is intended for use with the device integrated into an automatic system.



- ▶ Use the Select button **2** to select the level.
- ▶ Press the Enter button **1**.
- The setting changes to the level you selected.

### 8.3.2 Date / time

You can set the **Date / time** for process documentation.

**i** Date and time can also be synchronised with the HTDM, → "Synchronising time and date" on page 19.

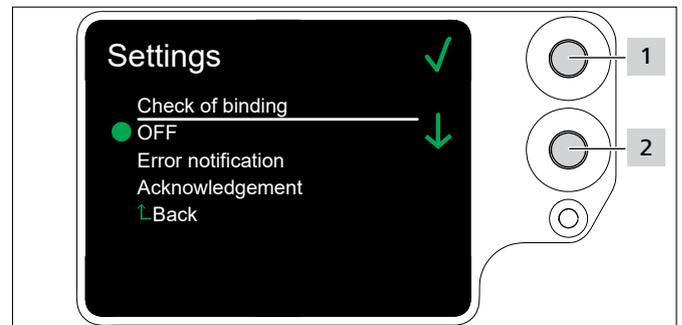


- ▶ Use the Select button **2** to change the date and time.
- ▶ Press the Enter button **1** to confirm each digit.
- The setting changes to the option you selected.

### 8.3.3 Check of binding

The **Check of binding** setting enables you to decide whether or not the **Error, binding force** message appears on the display, → "Display messages" on page 30.

**i** The binding check can also be set with the HTDM, → "Setting the binding check" on page 19.



- ▶ Use the Select button **2** to select the desired setting.
- ▶ Press the Enter button **1**.
- The setting changes to the option you selected.

Setting	Meaning
<b>OFF</b>	The <b>Error, binding force</b> message does not appear on the display.
<b>Error notification</b>	The <b>Error, binding force</b> message appears when applicable but does not require confirmation.
<b>Acknowledgement</b>	The <b>Error, binding force</b> message appears when applicable and requires confirmation. The next binding is not possible until the trigger has been pulled to confirm the message.

### 8.4 Contact menu

The **Contact** menu shows you the current website of the manufacturer.



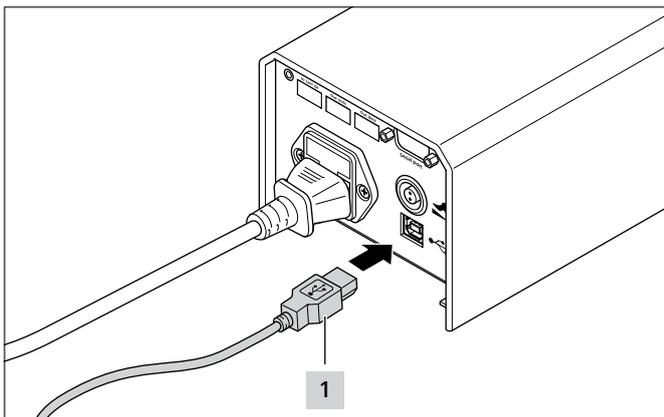
## 9 HT Data Management

The HT Data Management software enables you to:

- Update the software for the power pack and AT2000 CPK.
- Export production data.
- Change parameters.

### 9.1 First steps

- ▶ Install the HT Data Management software on a PC.
- ▶ Switch on the AT2000 CPK, → "Switching on" on page 11.



- ▶ Connect the PC to the power pack with the provided USB cable **1**.
- ▶ Launch the HT Data Management software.
- ☑ The HT Data Management start page appears on the screen, → "Binding menu" on page 18.

#### NOTE

When the AT2000 CPK is connected, error messages may be displayed in the HTDM while binding if the settings of the AT2000 CPK display have been changed.

### 9.2 Access levels

There are three access levels. Each level permits access to the features available on the lower levels:

- Operator level
- Setup-specialist level
- Service level

#### 9.2.1 Binding menu

Level	Binding information	Binding parameters	Change language	Synchronise with PC time
Operator	Read	No	Yes	Yes
Setup specialist	Read	Yes	Yes	Yes
Service	Yes	Yes	Yes	Yes

#### 9.2.2 Service menu

Level	Change service parameter settings	Change parameter settings	Change access code
Operator	No	No	No
Setup specialist	No	Yes	Yes
Service	Yes	Yes	Yes

#### 9.2.3 Memory menu

Level	Export data	Delete memory
Operator	Yes	No
Setup specialist	Yes	No
Service	Yes	Yes

#### 9.2.4 Update menu

Level	Perform updates	Change access code
Operator	No	No
Setup specialist	Yes	Yes
Service	Yes	Yes

#### 9.2.5 Measurement environment menu

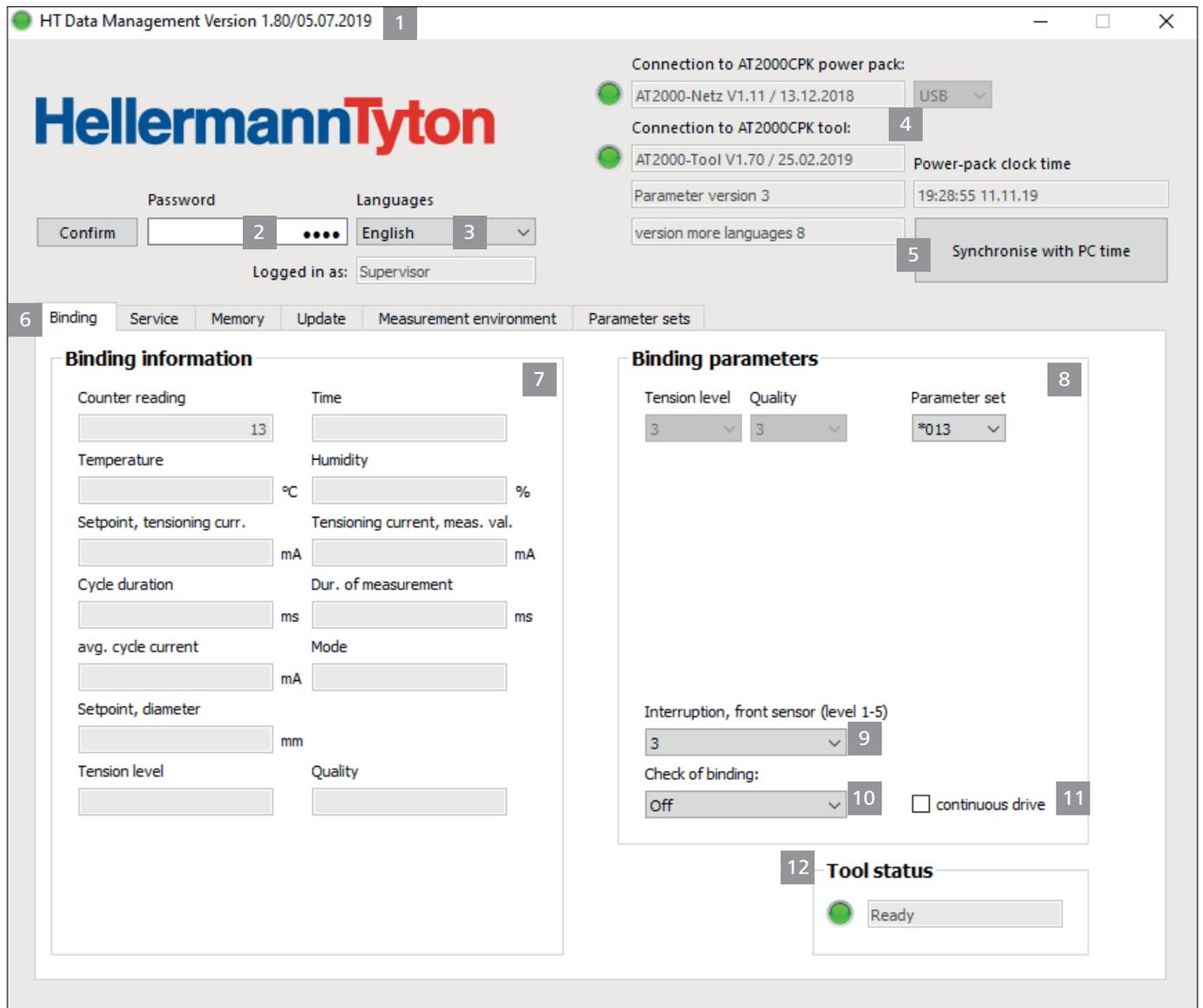
Level	Visibility
Operator	No
Setup specialist	Yes
Service	Yes

#### 9.2.6 Parameter set menu

Level	Create parameter sets
Operator	No
Setup specialist	Yes
Service	Yes

### 9.3 Binding menu

The **Binding** menu appears on the display when you launch the software.



- 1 Version information and date of publication of the software
- 2 Entry box for password for access level
- 3 Language setting
- 4 Connection states and software versions
- 5 Time and date synchronisation
- 6 Menus
- 7 Display binding information
- 8 Select parameter set
- 9 Select interruption front sensor
- 10 Switch binding check on or off
- 11 Consecutive trigger
- 12 Status of the AT2000 CPK

#### 9.3.1 Entering password

**i** The password consists of four characters and the default setting is **0000**.

- ▶ Enter the **password** 2.
- ▶ Click on **Confirm**.
- ☑ What you see in the "Menus" tab 6 depends on your access rights, → "Access levels" on page 17.
- ☑ Certain fields can be greyed, hidden or active, depending on the access level.

#### 9.3.2 Select a language

- ▶ Select the display language in the **Language** drop-down menu.
- ☑ The setting immediately changes to the language you selected.

### 9.3.3 Synchronising time and date

- ▶ Click on **Synchronise with PC time** 5.
- Clock time and date of the power pack are synchronised with the PC connected to the device.

**i** Time and date are saved in the power pack and have to be rechecked if the power pack is subsequently replaced.

### 9.3.4 Display binding information

**Binding information** 7 shows the process data of the last binding performed with the connected AT2000 CPK.

### 9.3.5 Select parameter set

In the parameter sets, preset values are grouped and transferred to the AT2000 CPK, → "Parameter set menu" on page 27

- ▶ Select a configured parameter set in the **Parameter set** 8 field.
- The changed parameters are transferred to the AT2000 CPK.

### 9.3.6 Set interruption front sensor

The **Interruption front sensor** setting 9 enables you to decide how long the level sensor can remain busy without the **Error, front cap** message appearing on the display, → "Display messages" on page 30.

- ▶ Select the level in the **Interruption front sensor** 9 field.
- There are five levels:
  - Level 1: 0.0 seconds
  - Level 2: 0.3 seconds
  - Level 3: 0.5 seconds
  - Level 4: 0.7 seconds
  - Level 5: 0.9 seconds
- The setting is changed and transferred to the AT2000 CPK.

### 9.3.7 Setting the binding check

The **Check of binding** setting 10 enables you to decide whether or not the **Error, binding force** message appears on the display, → "Display messages" on page 30

- ▶ Set the binding in the **Check of binding** 10 field, → "Check of binding" on page 16. The following options are available:
  - OFF
  - Error notification
  - Acknowledgement
- The setting is changed and transferred to the AT2000 CPK.

### 9.3.8 Activating consecutive trigger

Consecutive trigger 11 effects continuous binding without repeatedly actuating the start trigger. Bindings will be carried out as long as the start trigger remains pressed.

- ▶ Activate the **consecutive trigger** 11.

### 9.3.9 Status indicators

The **Tool Status** 12 field displays the operating status of the AT2000 CPK.

	Colour	Status
<b>Connection to the power pack CPK</b>	Green	Connection active
	Red	Error message active
	Grey	No connection / connection interrupted
<b>Connection to AT2000 CPK</b>	Green	Connection active
	Red	Error message active
	Grey	No connection / connection interrupted
<b>Status of the AT2000 CPK</b>	Green	Ready
	Yellow	Busy
	Blue	Main menu on AT2000 CPK active Binding not possible
	Red	Error message active
	Grey	No connection / connection interrupted

## 9.4 Service menu

HT Data Management Version 1.80/05.07.2019

**HellermannTyton**

Connection to AT2000CPK power pack:  
 AT2000-Netz V1.11 / 13.12.2018 USB

Connection to AT2000CPK tool:  
 AT2000-Tool V1.70 / 25.02.2019

Power-pack clock time  
 Parameter version 3 19:29:15 11.11.19  
 version more languages 8

Confirm Password Languages English  
 Logged in as: Supervisor

Binding Service Memory Update Measurement environment Parameter sets

**Service parameters**

Serial number 9011327

Counter 13 1

Counter reading at last service 0

Date of last service 2  
 06.02.2019

Tool code 3  
 000

4 Fetch data from tool 5 Send data to tool

Synchronise with PC time

- 1 Serial number and counter reading display
- 2 Information for HellermannTyton service
- 3 Access code of the AT2000 CPK
- 4 Refresh the service information and parameters
- 5 Send data to the AT2000 CPK

### 9.4.1 Updating service information

- ▶ Click on [Fetch data from tool](#).
- The information of the AT2000 CPK about the counter reading and service is updated.

### 9.4.2 Changing the access code in the AT2000 CPK

- ▶ Enter the new code at [Tool code](#). The code is a three-digit number and the default setting is 000.
- ▶ Click on [Send data to tool](#).
- The access code is changed and transmitted to the AT2000 CPK.

## 9.5 Memory menu

- 1 Refresh memory status
- 2 Limit the time period of the binding information
- 3 Limit the time period of the messages
- 4 Select messages
- 5 Select bindings
- 6 Export messages and binding data
- 7 Export created file

## 9.5.1 Refresh memory of the tool

Updates the number of data records, bindings and messages stored in the tool's memory.

- ▶ Click on the **Refresh** button **1**.
- ☑ The current values and the memory usage are displayed in the fields **No. of bindings in memory** and **Memory messages**.

## 9.5.2 Limit the time period of the bindings

Limits the time period for updating the binding information **2**.

**I** It is advisable to set a filter to restrict the choice if the volume of data involved is large.

- ▶ Activate **Limit bindings** **2**.
- ▶ In the drop-down menus **Export from** and **Export until**, select the start and end dates for the export period.
- ▶ Click on **Export** **6**.

### 9.5.3 Limit the time period of the messages

Limits the time period for updating the messages **3**.

**i** It is advisable to set a filter to restrict the choice if the volume of data involved is large.

- ▶ Activate **Limit messages** **3**.
- ▶ In the drop-down menus **Export from** and **Export until**, select the start and end dates for the export period.
- ▶ Click on **Export** **6**.

### 9.5.4 Select bindings

Select the bindings to be exported. The data exported contain the information about the individual bindings.

**i** It is advisable to set a filter to restrict the choice if the volume of data involved is large.

- ▶ In the fields **From binding No.** **5** and **To binding No.** **5**, restrict the quantity of bindings for export.
- ▶ Click on **Export** **6**.

### 9.5.5 Select messages

Select the messages to be exported. The data exported contain the errors or messages.

**i** It is advisable to set a filter to restrict the choice if the volume of data involved is large.

- ▶ In the fields **From message No.** **4** and **To message No.** **4**, restrict the messages for export.
- ▶ Click on **Export** **6**.

### 9.5.6 Read and export the process data on the HTDM

**i** The data are not deleted after they have been exported.

A Data fields have not been initialised message is issued if the process data have not been refreshed.

- ▶ If required, restrict the amount of data for export.
- ▶ Click on the **Refresh** button **1**.
- ▶ Click on **Export** **6**.
- ▶ Define the storage location for the exported \*.CSV data.
- ▶ In the window opened by the operating system, click on the **Save** button.
- The bindings and messages are exported from the AT2000 CPK and saved as a \*.CSV file.
- The progress bar shows progress of the data transfer in percent (%).
- When export completes the name of the saved file appears in **File loaded**.

### 9.5.7 Export data

There are two export formats:

- XLS: The saved \*.XLS file can be opened using a table calculation program.
- HTML: The saved \*-HTML file can be opened using the browser, → *"Display exported data in the HTML format" on page 22*.
- ▶ Click on **Source file** **7** and select the exported file in the dialogue window of the operating system.
- ▶ The file appears in **File loaded**.
- ▶ Select the export format for the file.

### 9.5.8 Display exported data in the HTML format

The exported data is displayed in the browser in three categories:

- Start page (information on the model and serial number of the AT2000 CPK as well as the counter readings)
- Production data (information on the parameter set, temperature, power, cycle time, etc. for each binding)
- Messages (information on messages and time of occurrence)
- ▶ The exported HTML file can be opened with an up-to-date browser.
- ▶ Click on the category button in order to display the category.
- ▶ Click on the pictogram of the country flag in order to switch the data display language to English.

## 9.6 Update menu

**i** The **Update** menu appears only if the user has logged on with the setup specialist's password.

The screenshot shows the 'HT Data Management Version 1.80/05.07.2019' application window. The main interface features the 'HellermannTyton' logo and a navigation menu with tabs: Binding, Service, Memory, Update, Measurement environment, and Parameter sets. The 'Update' tab is active, displaying three main sections: 'Firmware update', 'Binding parameters update', and 'Update additional languages'. Each section contains 'load from file' and 'send to tool' buttons, along with progress bars. A 'Passwords' section is also visible on the right, with a 'change' button. The top right corner shows connection information for the AT2000-Netz power pack and AT2000-Tool, including version numbers and dates. A 'Synchronise with PC time' button is also present.

- 1 Update firmware
- 2 Change password
- 3 Update binding parameters
- 4 Install other languages

### 9.6.1 Update firmware

The firmware updates **1** include the update for the AT2000 CPK and the power pack.

The current firmware can be found at the following web address:

[www.HellermannTyton.com/autotool-cpk](http://www.HellermannTyton.com/autotool-cpk)

#### NOTE

When the firmware for the AT2000 CPK is updated to Version 1.77 or newer, the existing binding data is deleted from the ring memory.

- ▶ Copy the update files \*.hex onto the hard drive.
  - ▶ Click on **Firmware update power pack**.
- and/or
- ▶ Click on **Firmware update tool**.

**i** There are separate \*.HEX files for the AT2000 CPK and the power pack:  
 AT2000 CPK: AT2000CPK\_Tool\_Vxxx  
 Power pack: AT2000CPK\_PowerPack\_Vxxx

- ▶ Select the appropriate \*.HEX file.
- ▶ In the window opened by the operating system, click on the **Open** button.
- ☑ The **Start upload** button appears on the screen.
- ▶ Click on **Start upload**.
- ☑ The new firmware is uploaded.
- ☑ The progress bar shows progress of the data transfer in percent (%).
- ☑ The AT2000 CPK display shows the current data transfer.

#### NOTE

Do not interrupt the connection during the data transfer. In the event of an interruption, the AT2000 CPK will become unusable and will need to be sent back to the manufacturer.

### 9.6.2 Change password

**i** The setup specialist's password consists of four characters and the default setting is **0000**. HellermannTyton recommends setting an alphanumeric password that includes at least one special character.

- ▶ Click on **Change**.
- ▶ Enter the current password and click on **OK** to confirm.
- ▶ Enter the new password and click on **OK** to confirm.
- ▶ Re-enter the new password and click on **OK** to confirm.
- ☑ The password is changed.

### 9.6.3 Update binding parameters

The update for the binding parameter settings **3** has the file ending ".cpkparam".

- ▶ Click on **Load from file**.
- ▶ Select the file.
- ▶ In the window opened by the operating system, click on the **Open** button.
- ☑ The name of the file appears in **File loaded**.
- ▶ Click on **Send to tool**.
- ☑ The new binding parameters are transmitted to the AT2000 CPK.
- ☑ The progress bar shows progress of the data transfer in percent (%).

### 9.6.4 Install other languages

The update for languages which do not use Latin characters, e.g. Asian languages, has the file ending ".bin".

- ▶ Click on **Load from file**.
- ▶ Select the file.
- ▶ In the window opened by the operating system, click on the **Open** button.
- ☑ The name of the file appears in **File loaded**.
- ▶ Click on **Send to tool**.
- ☑ The new languages are transmitted to the AT2000 CPK.
- ☑ The progress bar shows progress of the data transfer in percent (%).

## 9.7 Measurement environment menu

**i** The **Measurement environment** menu appears only if the user has logged on with the setup specialist's password.

The screenshot shows the 'Measurement environment' menu in the HT Data Management software. The interface includes a top navigation bar with tabs for Binding, Service, Memory, Update, Measurement environment, and Parameter sets. The Measurement environment tab is active, displaying sections for Binding information, Binding parameters, Measured force, and Insertion mode. A table for measurement results is also visible.

**Binding information** (1): Setpoint, tensioning curr. (mA), Dur. of measurement (ms), Tensioning current, meas. (mA), Counter reading.

**Binding parameters** (2): Tension level (3), Quality (3), Parameter set (\*005).

**Measured force** (3): [Input field] N, Accept button.

**Insertion mode** (6): Activate insertion mode, Insert, Position, Measure, Eject buttons.

**Measurement results table** (4, 5):

Counter reading	Time	Temperature	Humidity	Setpoint, tensioning curr.	Tensioning current, meas. v
5					

- 1 Display binding information
- 2 Show binding parameter settings
- 3 Adjust the measured force
- 4 Manage measurement results
- 5 List of measurement results
- 6 Set the measurement mode

### 9.7.1 Using measurement mode

In measurement mode, the binding information for a binding cycle with a measured force is documented in a log file. This file can be used to monitor the AT2000 CPK. In the measurement environment, the force measurement device (106-29010 / 106-29011) and a suitable force gauge can be used to carry out a measurement.

**i** You can find more detailed information on using the force measurement device in the corresponding manual.

**i** No cycle movement or jaw movement takes place while measurement mode is active. Only the tensioning drive is active, with the current binding parameter settings.

- ▶ Select **parameter set** 2.
- ☑ The corresponding force level and quality are displayed.
- ▶ Click on **Activate measurement mode** 6.
- ☑ The measurement mode functions are activated.

- ▶ Click on the measurement mode functions to trigger the corresponding action on the AT2000 CPK.
- ▶ Perform one binding.
- ☑ The binding information is displayed **1**.
- ▶ Enter the calculated value into the field **Measured force** **3**.
- ▶ Click on **Accept**.
- ☑ A new line is added to the logfile.
- ▶ Repeat the measurement procedure several times.
- ▶ Click on **Deactivate measurement mode** **6** or switch off the tool.

### 9.7.2 Deleting measurement results

- ▶ To delete a line, highlight it and click on **Delete line**.

### 9.7.3 Saving measurement results

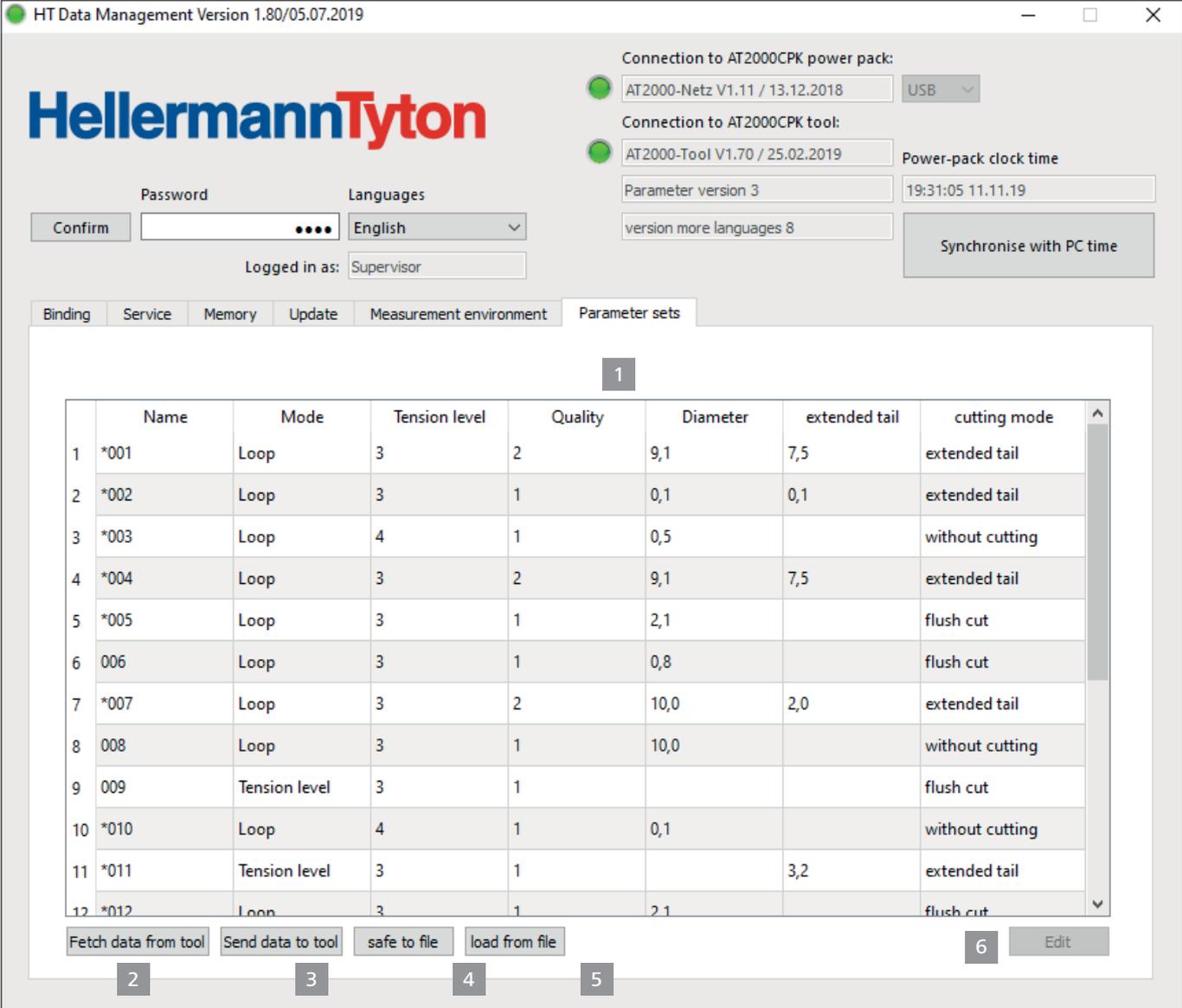
- ▶ To save the measurement results in the table, click on **Export**.
- ▶ Define the storage location for the exported \*.CSV data.

**i** The measurement results can also be converted into the file formats \*.xls or \*.html and displayed, → "Export data" on page 22.

## 9.8 Parameter set menu

The settings for a binding process (e.g. force level, quality, diameter and projecting cable-tie ends) are grouped in the **Parameter sets** menu and can thus be accessed and managed as a setting.

 The **Parameter set** menu appears only if the user has logged on with the setup specialist's password.



HT Data Management Version 1.80/05.07.2019

**HellermannTyton**

Connection to AT2000CPK power pack:  
 AT2000-Netz V1.11 / 13.12.2018 USB

Connection to AT2000CPK tool:  
 AT2000-Tool V1.70 / 25.02.2019

Power-pack clock time  
 Parameter version 3 19:31:05 11.11.19  
 version more languages 8

Confirm Password Languages English  
 Logged in as: Supervisor

Synchronise with PC time

Binding Service Memory Update Measurement environment **Parameter sets**

	Name	Mode	Tension level	Quality	Diameter	extended tail	cutting mode
1	*001	Loop	3	2	9,1	7,5	extended tail
2	*002	Loop	3	1	0,1	0,1	extended tail
3	*003	Loop	4	1	0,5		without cutting
4	*004	Loop	3	2	9,1	7,5	extended tail
5	*005	Loop	3	1	2,1		flush cut
6	006	Loop	3	1	0,8		flush cut
7	*007	Loop	3	2	10,0	2,0	extended tail
8	008	Loop	3	1	10,0		without cutting
9	009	Tension level	3	1			flush cut
10	*010	Loop	4	1	0,1		without cutting
11	*011	Tension level	3	1		3,2	extended tail
12	*012	Loop	3	1	2,1		flush cut

Fetch data from tool Send data to tool save to file load from file Edit

1 Overview of the parameter sets

2 Data synchronisation with the AT2000 CPK

3 Send configured parameter sets to the AT2000 CPK

4 Save parameter sets

5 Load parameter sets

### 9.8.1 Synchronise parameter sets

▶ Click on **Fetch data from tool** 2.

The parameter sets of the AT2000 CPK are loaded and displayed.

 Data changed in the AT2000 CPK is indicated with an \*.

▶ Edit the parameter sets, → "Edit parameter sets" on page 28.

▶ Click on **Send data to tool** 3.

The parameter sets are transmitted to the AT2000 CPK.

### 9.8.2 Save parameter sets

The parameter sets are saved with the file ending "cpkpreset".

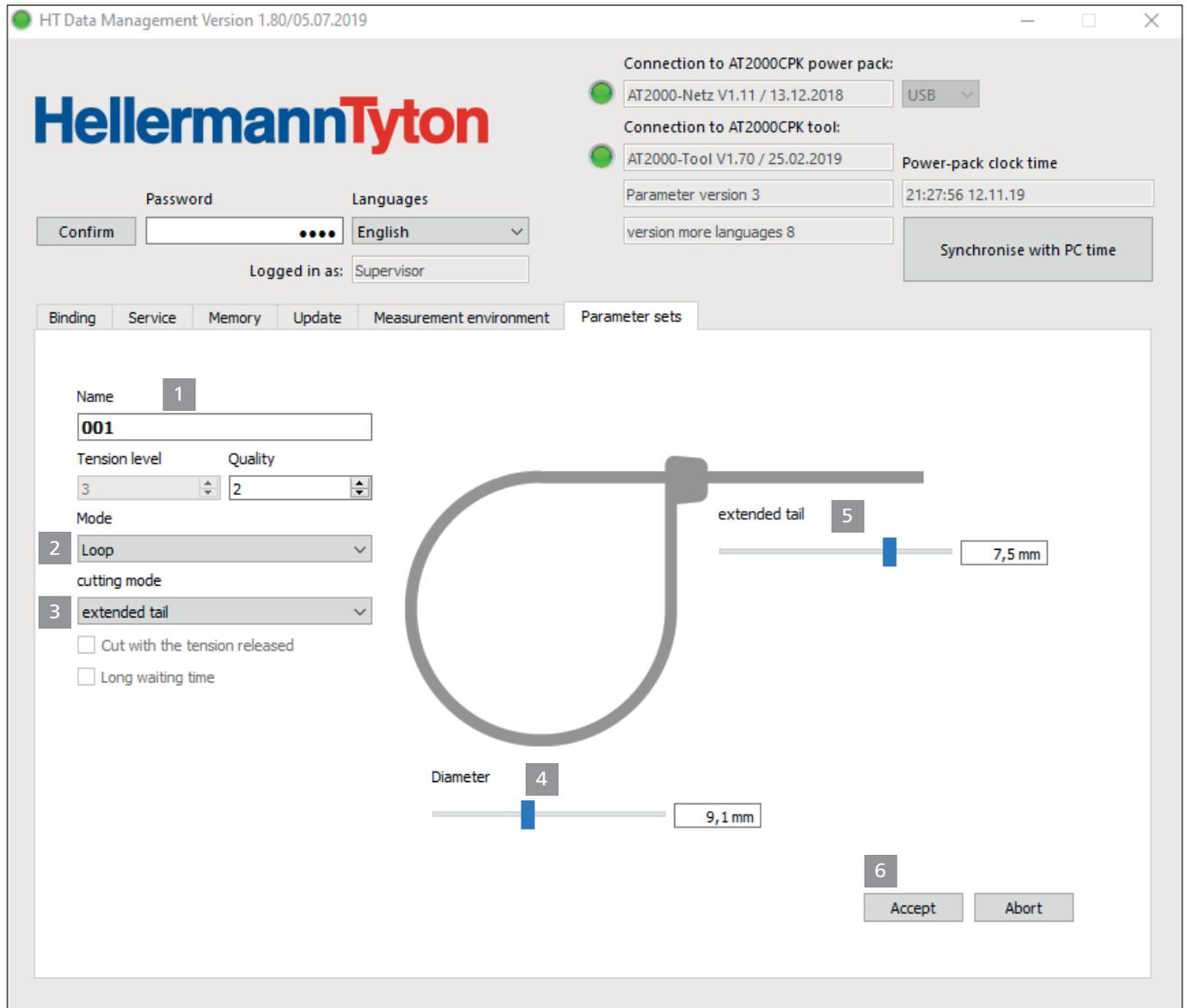
- ▶ Click on **Save in file** 4.
- ▶ Define the storage location for the files.
- ▶ In the window opened by the operating system, click on the **Save** button.

### 9.8.4 Edit parameter sets

- ▶ Select the parameter set in the overview and click on **Edit** 6.

### 9.8.3 Load parameter sets

- ▶ Click on **Load from file**.
- ▶ Select the file with the file ending "cpkpreset".
- ▶ In the window opened by the operating system, click on the **Open** button.
- ☑ The parameter sets are displayed in the overview 1.



- ▶ Allocate a three-digit designation, e.g. "016" to the parameter set in the field **Designation** 1.

**i** The same designation cannot be allocated twice.

- ▶ Select the desired **Force level** and **Quality**.
- ▶ Select the type of binding mode in the drop-down menu **Mode** 2. The following settings are available:
  - Force level

- Loop
- ▶ Select the type of cutting mode in the drop-down menu **Cutting mode** 3. The following settings are available:
  - Cut flush
  - Cut with projecting cable-tie end
  - No cutting
- ▶ For delicate bundles, activate the option **Tension-free cutting**.

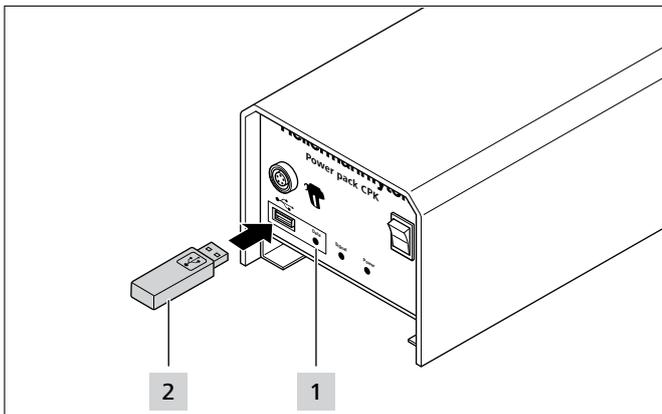
- ▶ Activate the option **Long hold time** as well.
- ☑ The hold time before cutting is increased. This gives the binding more time to release tension.
- i** If only the **Tension-free cutting** option is activated, the hold time is 100 ms, whereas the additional option **Long hold time** increases the hold time to 200 ms.
- ▶ In mode **2 Loop**, use the **Diameter 4** slider to set the diameter of the bundle.
- ☑ The set diameter is shown on the display of the AT2000 CPK.
- ▶ In cutting mode **3 Cut with projecting cable-tie end**, use the projecting cable-tie end slider to set the length of the projecting cable ties.
- ☑ The set projecting cable-tie end is shown on the display of the AT2000 CPK.
- ▶ For cut-free binding, select the cutting mode **3 No cutting**.
- ▶ Click on **Accept 6** to save the settings.
- ☑ The overview of the parameter sets is displayed, → "Parameter set menu" on page 27.
- ▶ Synchronisation the settings with the AT2000 CPK, → "Synchronise parameter sets" on page 27.

### 9.9 Export process data from the power pack CPK

#### NOTE

The power pack CPK must be restarted before the transmission, as otherwise the CSV file will be written incorrectly and it will not be possible to convert it.

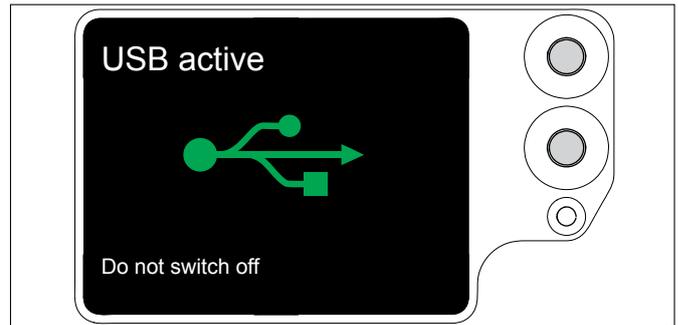
- i** Bindings cannot be triggered while a data transfer is in progress.



- ▶ Switch the power pack CPK off and on again.
- ▶ Disconnect the power pack CPK from the PC.
- ▶ Plug a USB memory stick **2** into the power pack CPK.

- i** The USB memory stack must be FAT32-formatted.

- ☑ The **Data LED 1** lights up green as soon as the device recognises the USB memory stick.
- ☑ The data are exported to the USB memory stick.
- ☑ The display shows the message that the AT2000 CPK should not be switched off.



- ☑ During the saving process, the **Data LED 1** will light up red/blue.
- ☑ As soon as the data transfer is complete, the **Data LED 1** lights up green.
- ▶ Unplug the USB memory stick **2**.
- ☑ The **Data LED 1** goes out and the AT2000 CPK is ready for use.
- ▶ Switch the power pack CPK off and on again.
- ▶ Connect the power pack CPK to the PC.

## 10 Troubleshooting

### 10.1 Important notes

#### **CAUTION**

##### Crush hazard when jaws close.

- ▶ Do not insert fingers between upper and lower jaws and do not keep your finger on the trigger.
- ▶ Always keep the power pack switched OFF when clearing a blockage.

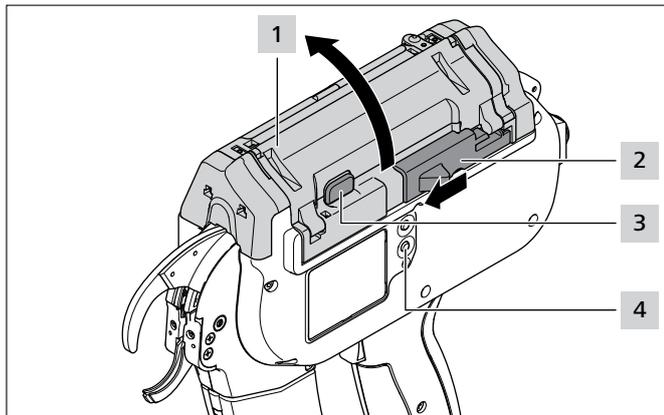
#### **CAUTION**

##### Crush hazard due to moving/rotating parts when service flaps are open.

- ▶ Do not insert fingers underneath the drum and do not keep your finger on the trigger.
- ▶ Always keep the power pack switched OFF when clearing a blockage.

### 10.2 Performing a reset

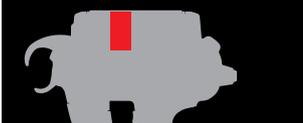
A reset of the AT2000 CPK always has to be performed before repair work is undertaken.



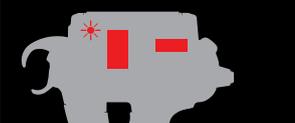
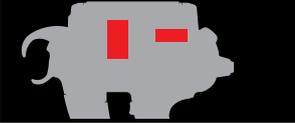
- ▶ Push the actuator for bandoleer cutter **2** to the left.
- ▶ Press the catch **3**.
- ▶ Open the gate **1**.
- ▶ Remove cable-tie residues where necessary.
- ▶ Press the reset button **4**.
- ▶ Close the gate **1**.

- ▶ Switch on the AT2000 CPK.

### 10.3 Display messages

DISPLAY MESSAGE	POSSIBLE CAUSE	SOLUTION
<p><b>Error, front cap</b> Remove cable-tie residues</p> 	<ul style="list-style-type: none"> <li>• There are residues of cable ties trapped behind the front cap.</li> <li>• The level sensor is busy.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Clean the front sensor.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> </ul>
<p><b>Error, gate</b> Close gate</p> 	<ul style="list-style-type: none"> <li>• Drum is not in the correct position.</li> <li>• The gate is open.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Open the gate and turn the drum to the correct position.</li> <li>▶ Close the gate.</li> </ul>

DISPLAY MESSAGE	POSSIBLE CAUSE	SOLUTION
<p><b>Error, start position</b></p> <p>1. Operate bandoleer cutter 2. Open gate</p>  <p><b>Error, start position</b></p> <p>1. Remove cable-tie residues 2. Press Reset button</p>  <p><b>Error, start position</b></p> <p>Close gate</p> 	<ul style="list-style-type: none"> <li>The AT2000 CPK is not in the start position.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Push actuator for bandoleer cutter to the left.</li> <li>▶ Open the gate.</li> <li>☑ <b>Error, start position</b> appears as the next message on the display.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Press the Reset button.</li> <li>☑ <b>Error, start position</b> appears as the next message on the display.</li> <li>▶ Close the gate.</li> </ul>
<p><b>Position of tie advancer</b></p> <p>1. Operate bandoleer cutter 2. Open gate</p>  <p><b>Position of tie advancer</b></p> <p>1. Press Reset button 2. Check position of tie advancer</p>  <p><b>Position of tie advancer</b></p> <p>Close gate</p> 	<ul style="list-style-type: none"> <li>No tie advancer present.</li> <li>The tie advancer is faulty.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Push actuator for bandoleer cutter to the left.</li> <li>▶ Open the gate.</li> <li>☑ <b>Position of tie advancer</b> appears as the next message on the display.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Press the Reset button.</li> <li>▶ Open the roller block, → <i>"Checking tie advancer"</i> on page 36.</li> <li>▶ Check the tie advancer; replace if necessary.</li> <li>☑ <b>Position of tie advancer</b> appears as the next message on the display.</li> <li>▶ Close the gate.</li> </ul>

DISPLAY MESSAGE	POSSIBLE CAUSE	SOLUTION
<p><b>Error, drum</b></p> <ol style="list-style-type: none"> <li>1. Operate bandoleer cutter</li> <li>2. Open gate</li> </ol> 	<ul style="list-style-type: none"> <li>• The cable tie bandoleer is pulled in at an angle.</li> <li>• Roller lever drum is jammed or is defective.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Push actuator for bandoleer cutter to the left.</li> <li>▶ Open the gate.</li> <li>▶ Open the two transparent service flaps at the gate, → "Troubleshooting a cable-tie bandoleer malfunction" on page 33.</li> <li>☑ <b>Error, drum</b> appears as the next message on the display.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Open the roller lever drum and turn the drum to the correct position.</li> <li>▶ Press the Reset button.</li> <li>☑ <b>Error, gate</b> appears as the next message on the display.</li> <li>▶ Close the gate.</li> <li>▶ Load a new cable tie bandoleer, → "Loading cable ties" on page 11.</li> </ul>
<p><b>Error, drum</b></p> <ol style="list-style-type: none"> <li>1. Remove cable-tie residues</li> <li>2. Press Reset button</li> </ol> 		
<p><b>Overload</b></p> <ol style="list-style-type: none"> <li>1. Operate bandoleer cutter</li> <li>2. Open gate</li> </ol> 	<ul style="list-style-type: none"> <li>• The drum is blocked.</li> <li>• The bandoleer cutter does not cut off the cable ties.</li> <li>• The cable tie bandoleer is pulled in at an angle.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Push actuator for bandoleer cutter to the left.</li> <li>▶ Open the gate.</li> <li>▶ Open the two service flaps at the gate, → "Troubleshooting a cable-tie bandoleer malfunction" on page 33.</li> <li>☑ <b>Error, overload</b> appears as the next message on the display.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Press the Reset button.</li> <li>☑ <b>Error, gate</b> appears as the next message on the display.</li> <li>▶ Close the gate.</li> </ul>
<p><b>Overload</b></p> <ol style="list-style-type: none"> <li>1. Remove cable-tie residues</li> <li>2. Press Reset button</li> </ol> 		
<p><b>Error, tensioning motor</b></p> <ol style="list-style-type: none"> <li>1. Operate bandoleer cutter</li> <li>2. Open gate</li> </ol> 	<ul style="list-style-type: none"> <li>• Drive is jammed or is defective.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Push actuator for bandoleer cutter to the left.</li> <li>▶ Open the gate.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Press the Reset button.</li> <li>☑ <b>Error, gate</b> appears as the next message on the display.</li> <li>▶ Close the gate.</li> </ul>
<p><b>Error, binding force</b></p> <ol style="list-style-type: none"> <li>1. Check binding</li> <li>2. Confirm with trigger</li> </ol> 	<ul style="list-style-type: none"> <li>• The specified binding force is not achieved.</li> </ul> <p><b>i</b> The message appears only if error notification is activated, → "Check of binding" on page 16.</p>	<ul style="list-style-type: none"> <li>▶ Check the binding.</li> <li>▶ If applicable, reset the binding force.</li> <li>▶ If applicable, carefully remove the cable-tie residues.</li> <li>▶ Press the trigger as confirmation.</li> </ul>

DISPLAY MESSAGE	POSSIBLE CAUSE	SOLUTION
 <p><b>Time loss</b> 1. Check battery in power pack 2. Press Reset button</p>	<ul style="list-style-type: none"> <li>The back-up battery for the clock in the power pack has discharged.</li> </ul>	<ul style="list-style-type: none"> <li>Change the back-up battery, → "Changing back-up battery" on page 34.</li> <li>Press the Reset button.</li> </ul>

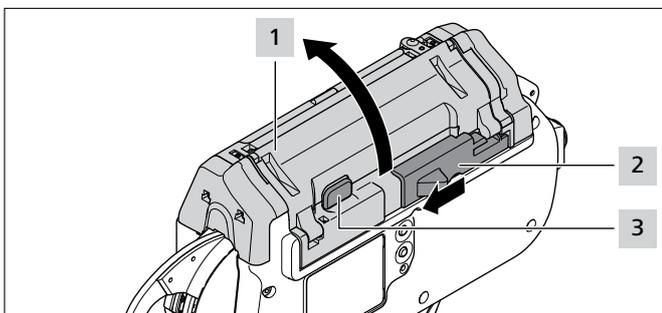
### 10.4 Possible fault

FAULT PATTERN	POSSIBLE CAUSE	SOLUTION
Loops form	Bundle diameter is unsuitable.	Use a suitable bundle diameter, → "Positioning and binding items for bundling" on page 12.
	Tie advancer is not in the correct position.	Check the position of the tie advancer, → "Checking tie advancer" on page 36.
	Spring in upper jaw is faulty.	Check upper jaw flap in upper jaw with spring, → "Replacing upper jaw" on page 35.
	Lower jaw is blocked.	Check lower jaw, → "Checking front cap and position of cutter" on page 36. Remove blockage.
Binding not possible. Cable tie shoots straight out.	Upper jaw is blocked.	Check upper jaw, → "Checking upper jaw" on page 35. Remove blockage.
Cable tie is not cut off flush.	Cutter in front cap is not in correct position.	Check position of cutter in front cap and remove cable-tie residues, → "Checking front cap and position of cutter" on page 36.

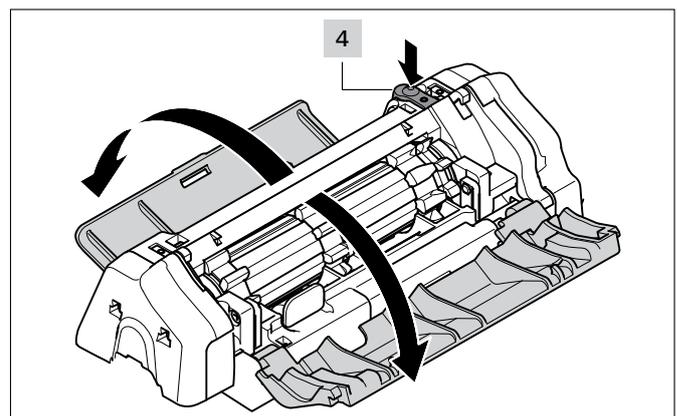
#### 10.4.1 Troubleshooting a cable-tie bandoleer malfunction

**i** Be sure to check the information on the display, → "Display messages" on page 30.

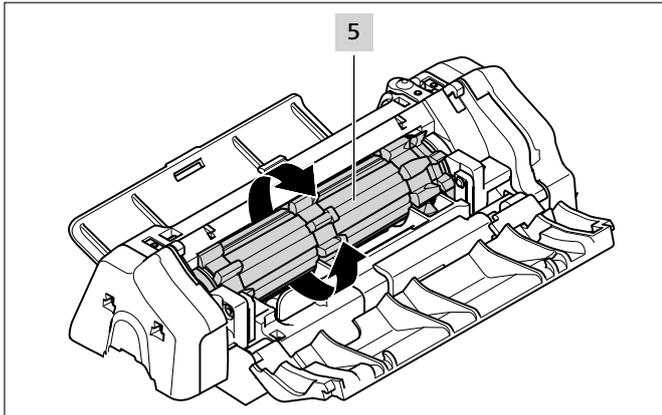
- Switch the power pack OFF.



- Push the actuator for bandoleer cutter **2** to the left.
- Press the catch **3**.
- Open the gate **1**.



- Press the actuator for service flap left **4**.
- Open the left service flap.
- Open the right service flap.



- ▶ Turn the drum **5** past the point of indexing resistance and remove the cable-tie residues.
- ▶ Close the left and right service flaps.
- ▶ Switch the power pack ON.
- ▶ Close the gate.
- ▶ Load a new cable tie bandoleer, → "Loading cable ties" on page 11.

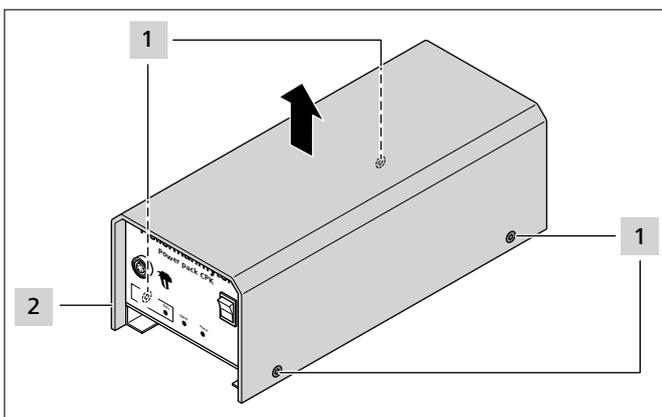
### 10.4.2 Changing back-up battery

**⚠ DANGER**

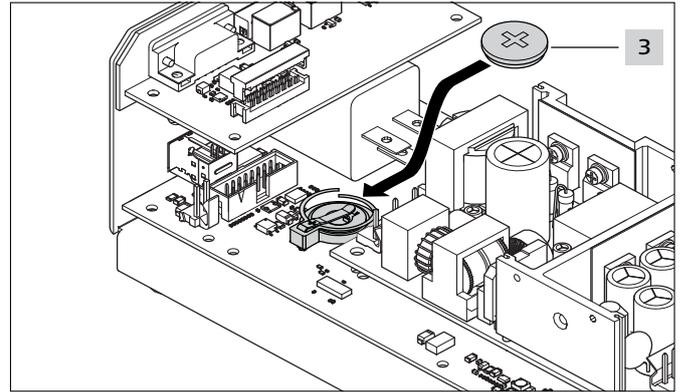
**A hazardous electrical current flows though the body in direct or indirect contact with electrically live parts.**  
 Electric shock, burns or death can result.

- ▶ Work on the electrical supply and on parts that are live when the device is in operation should always be carried out by a trained electrician.
- ▶ Use only OEM fuses of the specified amperage.
- ▶ Have faulty electrical components replaced immediately.
- ▶ Always disconnect the plug from the power-supply outlet before starting maintenance work and troubleshooting.
- ▶ Check the electrical equipment of the device at regular intervals. Have defects such as loose connections or scorched wiring repaired immediately.

- ▶ Switch the power pack OFF.
- ▶ Disconnect the power cord from the power-supply outlet.



- ▶ Remove the cover screws **1**.
- ▶ Remove housing **2** from the power pack.



- ▶ Change back-up battery **3**.
- i** For details of battery type, → "Power pack CPK" on page 38
- ▶ Position the housing **2** and affix using the cover screws **1**.
  - ▶ Set the date and time, → "Date / time" on page 16.

## 11 Maintenance

### 11.1 Important notes

Regular servicing is essential in order to ensure that the device remains in safe working order, → "Maintenance schedule" on page 35.

**⚠ CAUTION**

**Crush hazard when jaws close.**

- ▶ Do not insert fingers between upper and lower jaws and do not keep your finger on the trigger.
- ▶ Always keep the power pack switched OFF while maintenance is in progress.

**⚠ CAUTION**

Crush hazard due to moving/rotating parts when service flaps are open.

- ▶ Do not insert fingers underneath the drum and do not keep your finger on the trigger.
- ▶ Always keep the power pack switched OFF while maintenance is in progress.

### 11.2 Accessories and extras

Accessories and extras can be ordered directly from your national HellermannTyton representative, → *separate spare parts list*.

Name	Article number
Power pack CPK	106-00100
Bench mount kit CPK	106-00040
Overhead suspension CPK	106-00050
CPK safety warnings	106-29003
Power cable, 1.8 m	123-90040
Connecting cable, 2 m	123-90052

### 11.3 Servicing by manufacturer

It is advisable to have the AT2000 CPK serviced by HellermannTyton once a year or after every approx. 1 million bindings. This will allow the AT2000 CPK to be checked and updated to the latest modification status.

Service contact addresses for all countries are posted on the website: [www.HellermannTyton.com](http://www.HellermannTyton.com)

### 11.4 Maintenance schedule

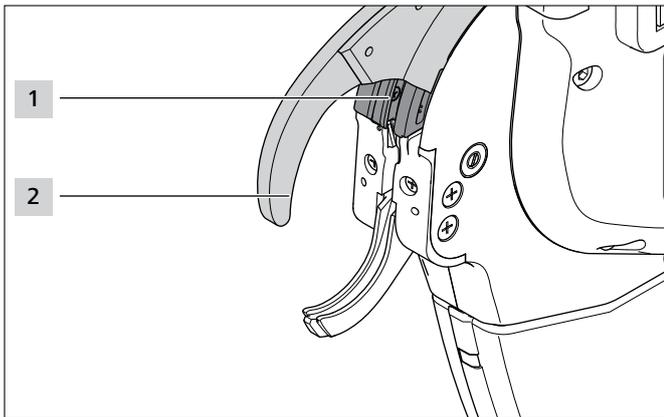
WHEN?	WHO?	WHAT AND HOW?
Approx. every 50,000 bindings	Setup specialist	▶ Check the tie advancer; replace if necessary, → "Checking tie advancer" on page 36.
Approx. every 300,000 bindings	Setup specialist	▶ Check the front cap; replace if necessary, → "Checking front cap and position of cutter" on page 36.

### 11.5 Repair

#### NOTE

Always perform a reset before commencing repair work, → "Performing a reset" on page 30.

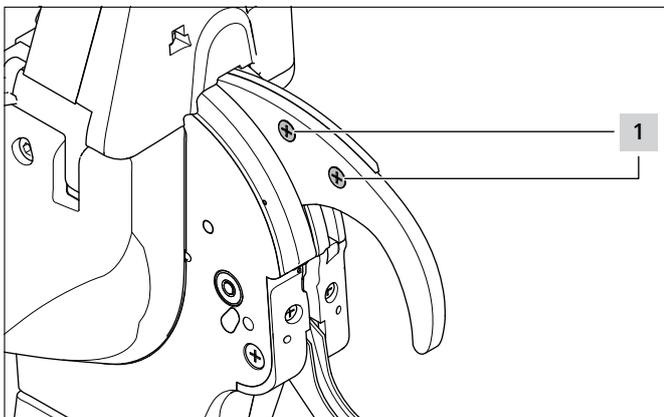
#### 11.5.1 Checking upper jaw



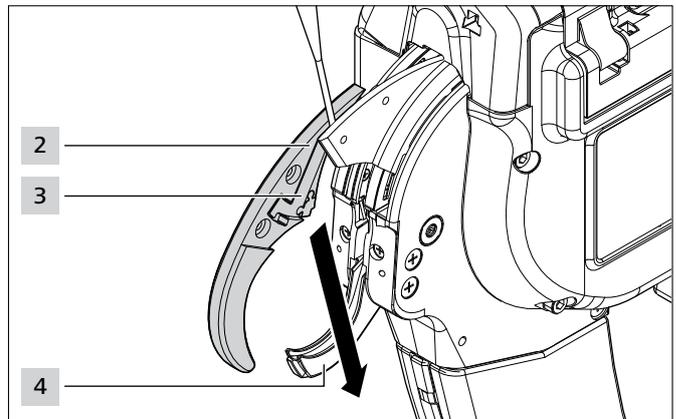
- ▶ Check upper jaw **2** and upper jaw guide **1** for wear and chipping.
- ▶ If necessary, replace upper jaw, → "Replacing upper jaw" on page 35.

#### 11.5.2 Replacing upper jaw

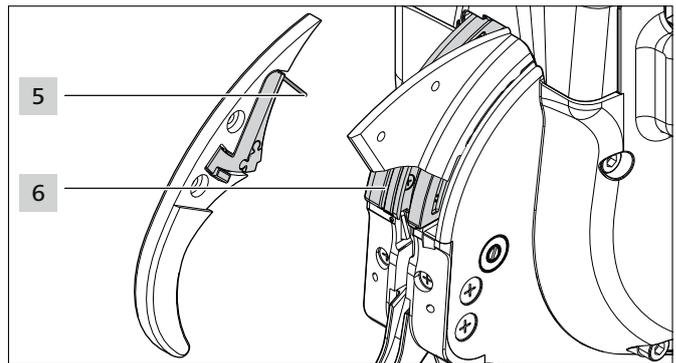
- ▶ Switch the power pack OFF.



- ▶ Remove the screws **1**.



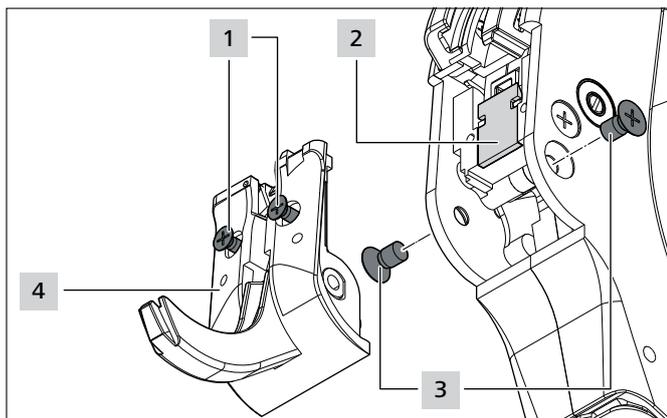
- ▶ Use a screwdriver to pry the upper jaw **2** apart (approx. 3 mm) at the top.
- ▶ Work the upper jaw **2** down and to the side past the lower jaw **4**.
- ▶ Hold the upper jaw flap **3** in place during removal.



- ▶ Check spring **5**, upper jaw flap **3** and upper jaw guide **6** for wear and chipping.
- ▶ Angle the upper jaw **2** past the lower jaw **4** and seat it in the upper jaw guide **6**.
- ▶ Hold the spring **5** with the upper jaw flap **3** while inserting. Make sure that the spring **5** is correctly positioned.
- ▶ Tighten the screws **1**.

### 11.5.3 Checking front cap and position of cutter

- ▶ Switch the power pack OFF.



- ▶ Remove the screws **3**.
- ▶ Loosen the screws **1**.

**CAUTION**

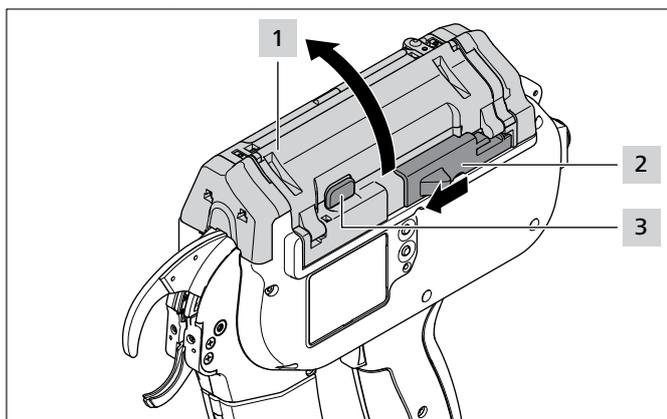
Cut hazard. The cutter is extremely sharp.

- ▶ Never touch the cutting edge with your fingers.

- ▶ Carefully remove front cap **4** with the lower jaw.
- ▶ Remove the tail cutter **2**.
- ▶ If necessary, replace tail cutter **2**.
- ▶ Remove cable-tie residues.
- ▶ Use compressed air to blow the tension gear and the waste channel clean.
- ▶ Insert the tail cutter **2** into the recess **with the cutting edge facing in**.
- ▶ Insert front cap **5** with the lower jaw.
- ▶ Tighten the screws **1**.
- ▶ Insert the screws **3** and tighten.

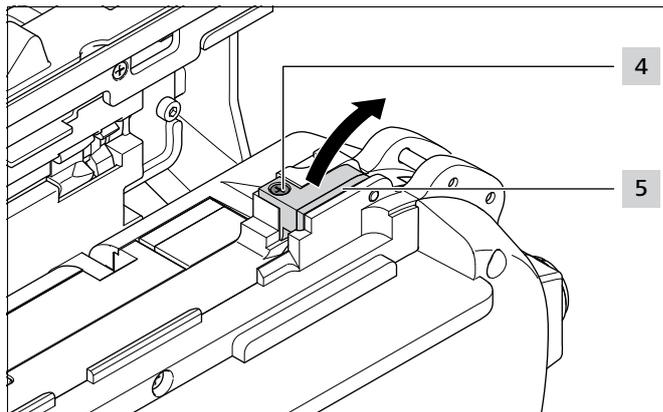
### 11.5.4 Checking tie advancer

- ▶ Switch the power pack OFF.

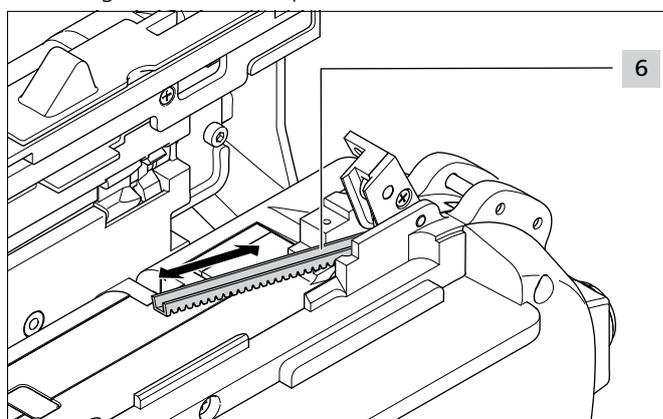


- ▶ Push the actuator for bandoleer cutter **2** to the left.
- ▶ Press the catch **3**.
- ▶ Open the gate **1**.

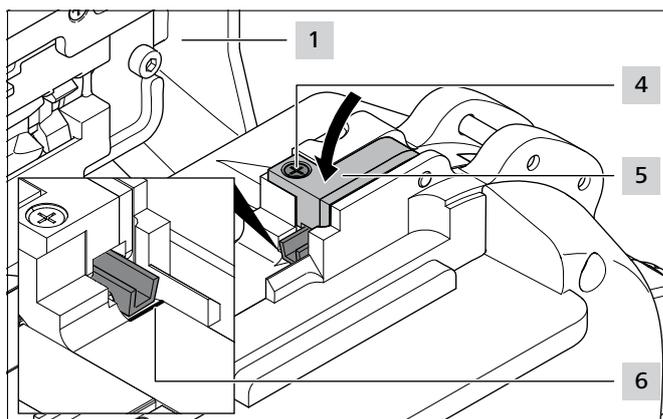
### 11.5.5 Replacing tie advancer



- ▶ Remove the screw **4**.
- ▶ Swing roller block **5** up.



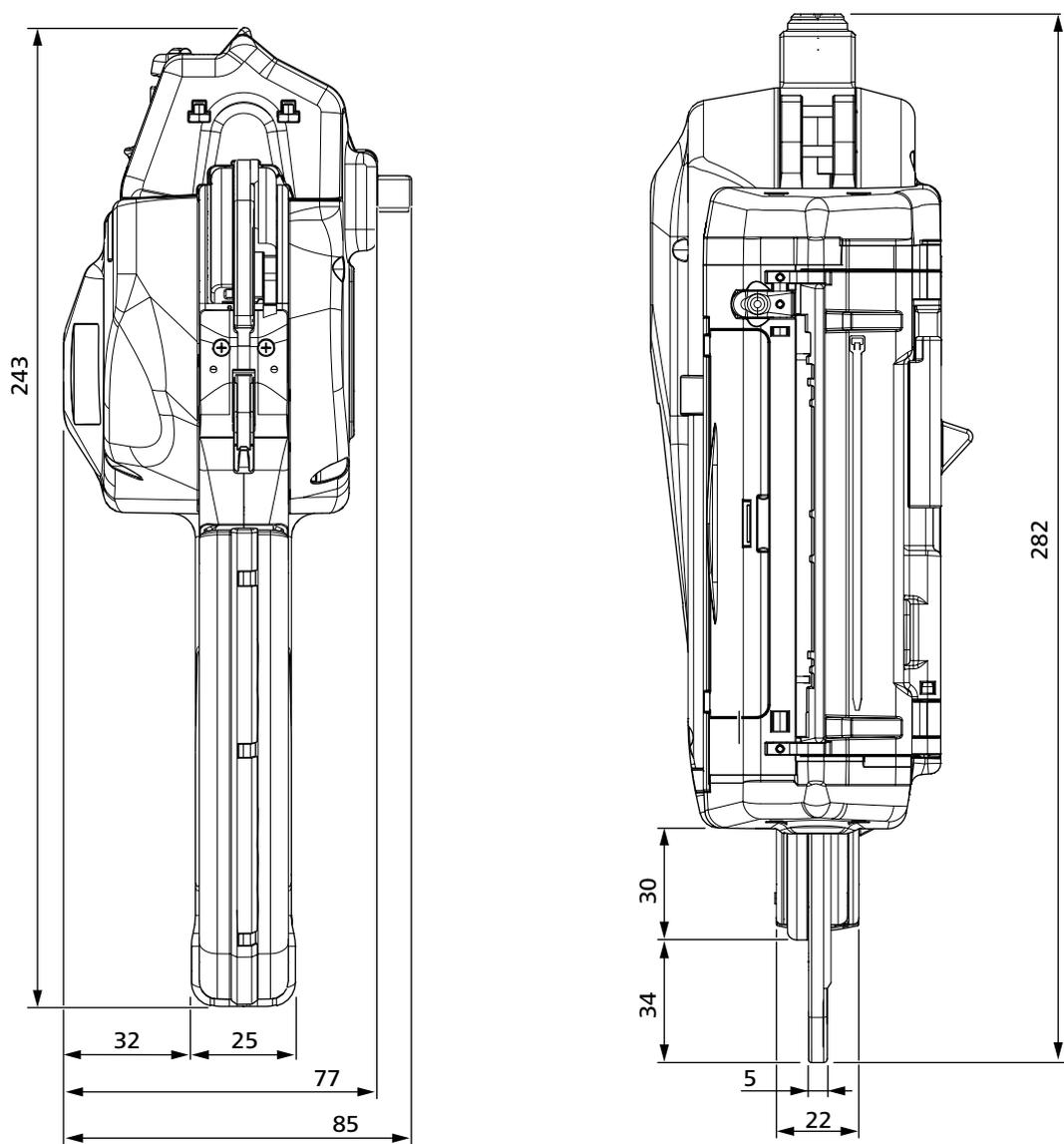
- ▶ Replace the defective tie advancer **6**.
- The teeth of the tie advancer face down.
- i** The tie advancer can be inserted in both directions.



- ▶ Push in the tie advancer as far as mark **6**.
- i** A Position of tie advancer message appears if positioning is not correct, → "Display messages" on page 30.
- ▶ Close the roller block **5**.
- ▶ Tighten the screw **4**.
- ▶ Close the gate **1**.

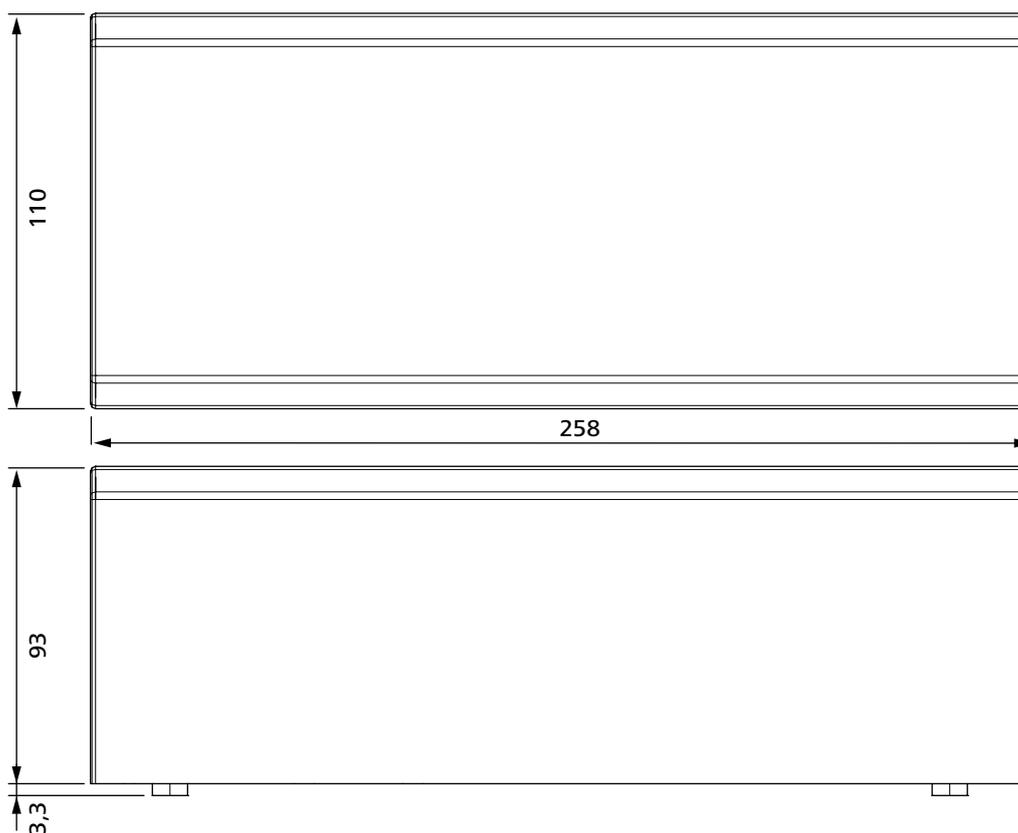
## 12 Technical data

### 12.1 AT2000 CPK



	Value
<b>Max. power draw</b>	50 W
<b>Input voltage</b>	25.2 V
<b>Size L x W x H</b>	approx. 285 mm x 86 mm x 245 mm
<b>Weight</b>	approx. 1800 g
<b>Bundle thickness</b>	up to max. 20 mm in diameter

## 12.2 Power pack CPK



	Value
<b>Line voltage</b>	100 V – 230 V
<b>Line frequency</b>	50/60 Hz
<b>Protection class</b>	I
<b>Size L x W x H</b>	approx. 260 mm x 110 mm x 93 mm
<b>Weight</b>	approx. 1300 g
<b>Back-up battery</b>	CR 2032 3V or equivalent

## 12.3 Noise and vibration information

<b>Emission sound pressure level</b> $L_{pA}$ <b>Uncertainty <math>K_{pA}</math></b>	65 dB re20 $\mu$ Pa 3 dB
<b>Sound power level <math>L_{WA}</math></b> <b>Uncertainty <math>K_{WA}</math></b>	76dB re1pW 3 dB
<b>Aggregate figure for vibration <math>a_h</math></b> <b>Uncertainty K</b>	0.8 m/s <sup>2</sup> 1.5 m/s <sup>2</sup>

**i** The vibration level as stated here is a measured value obtained by the standardised method set out in EN 60745-1:2009; it can be used for the purposes of device comparison.

The figure for vibration stated here is for the power tool in conditions of its intended use and can differ from the actual figure for the power tool in conditions of other use or if not adequately serviced.

Accurately estimating vibration load over a certain work period entails making due allowance for the times during which the device is switched off or running, but not actually in use. This can reduce vibration load over the entire work period by a significant margin.

- ▶ Implement additional safety measures to protect the operator from the effects of vibration, for example:
  - Servicing of power tools and use tools
  - Keeping hands warm
  - Workflow organisation

## 13 Declarations of conformity

### 13.1 AT2000 CPK automatic tool system

**HellermannTyton**

#### EC declaration of conformity

**AT2000 CPK AUTOMATIC TOOL SYSTEM  
106-00000**

Manufacturer: **HellermannTyton GmbH**  
 Address (street): Grosser Moorweg 45  
 Address (postcode/place): D-25436 Tornesch, Germany  
 Telephone: +49 4122/701-1  
 Telefax: +49 4122/701-400

We declare that the product introduced to the market by us

**Name: AT2000 CPK automatic tool system**

**Product type: Binding tool**

**Machine type: Electrically powered binding tool**

**Serial number:** \_\_\_\_\_

is compliant in its design and construction with the basic safety and health requirements of the EC directives set out below:

**Machinery Directive 2006/42/EC  
Low Voltage Directive 2014/35/EU**

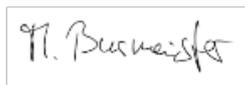
The harmonised standards listed below were applied for this purpose:

**EN60745-1:2000 + A11:2010**

Tornesch, 25 January 2017

**HellermannTyton GmbH**

rep.



Martin Burmeister  
Safety engineer

rep.



Olaf Wulff  
Head of development, application systems

This declaration corresponds to a manufacturer's declaration in the meaning of the Machinery Directive 2006/42/EC, Annex II A. Changes, if made to the above-mentioned product, void the validity of this declaration.

## 13.2 Power pack CPK



EC declaration of conformity

**POWER PACK CPK**  
**106-00100 and 106-00110**

Manufacturer:	<b>HellermannTyton GmbH</b>
Address (street):	Grosser Moorweg 45
Address (postcode/place):	D-25436 Tornesch, Germany
Telephone:	+49 4122/701-1
Telefax:	+49 4122/701-400

We declare that the product introduced to the market by us

<b>Name:</b>	<b>Power pack CPK</b>
<b>Product type:</b>	<b>Power supply unit</b>
<b>Machine type:</b>	<b>Power supply unit (direct current)</b>
<b>Serial number:</b>	_____

is compliant in its design and construction with the basic safety and health requirements of the EC directives set out below:

**Low Voltage Directive 2014/35/EU**

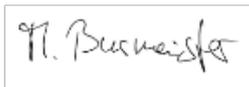
The harmonised standards listed below were applied for this purpose:

**IEC/EN 60950-1**

Tornesch, 25 January 2017

**HellermannTyton GmbH**

rep.



Martin Burmeister  
Safety engineer

rep.



Olaf Wulff  
Head of development, application systems

This declaration corresponds to a manufacturer's declaration in the meaning of the Machinery Directive 2006/42/EC, Annex II A. Changes, if made to the above-mentioned product, void the validity of this declaration.

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