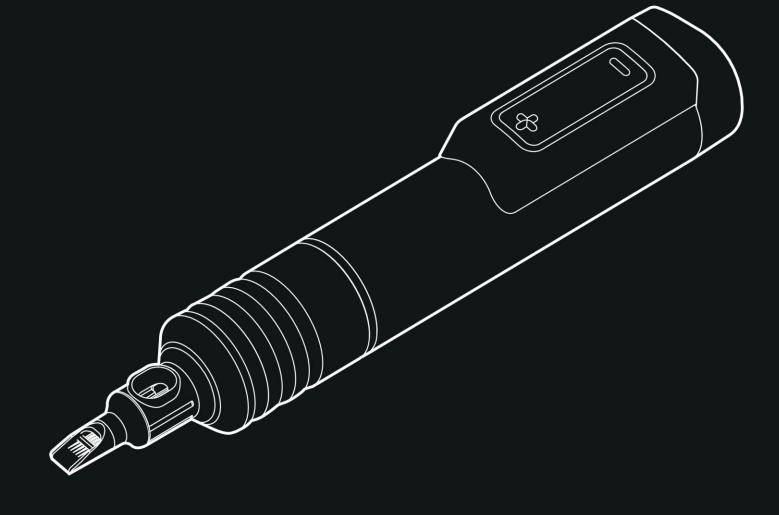
# CHEYENNE®

# HAWK PEN 2 3.5



Gebrauchsanweisung
Operating instructions
Instrucciones de uso

Manual de instruções инструкции Kullanım kılavuzu Instructions 说明

# Operating instructions Illustration types used

English Version 1.0 20/08/2025

Original
Operating
instructions

Follow these instructions for use for proper and safe use.
Keep them in a safe place for later use.

## Illustration types used

#### Instructions for action

Perform an action as follows:

- 1. Do this.
- 2. Do that.
- This is the interim result.
- 3. Do that.
- ✓ You have performed the action.

#### Danger classes and advice



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# 1 Safety

#### 1.1 Intended use

The HAWK Pen 2 is to be used in the commercial sector.

The HAWK Pen 2 is a professional tattoo machine for tattooing human skin.

These instructions for use do not contain all the information required for the safe operation of HAWK Pen 2 and its accessories. Please also note the following documents:

- Information on tattoo modules and tattooing inks,
- Safety data sheets for disinfectants and cleaning agents,
- Workplace safety regulations and legal requirements for tattooing.

#### 1.2 Misuse

Any other or additional use of the HAWK Pen 2 other than that described in the chapter "1.1 Intended use" is considered improper and thus inappropriate.

Misuse is defined as, in particular failure to comply with the specified environmental and operating conditions for the use of HAWK Pen 2 as set out in Section 2.5.1 "Operating Conditions," use of colors other than approved by MT.DERM GmbH, or tattooing animals.

# 1.3 Warning signs



General warning



Substances harmful to the skin



Danger from batteries



Biological hazard



Electrical voltage



Toxic substances



Pointed object

#### 1.4 Requirement signs

# 1.4 Requirement signs



Observe instructions



Use hand protection (protective gloves)

## 1.5 Qualification

## 1.5.1 Required qualification

The tattooing machine must only be used by persons who have acquired the following knowledge:

- basic knowledge of the tattooing process, in particular the correct puncture depth and frequency
- Knowledge of hygiene and safety regulations (see chapter "1.9 Risks and dangers" on page 9)
- Knowledge of what the tattooing ink does under the skin
- Knowledge of risks and side effects (see chapter "1.9 Risks and dangers" on page 9 and "1.10 Adverse effects" on page 10).

## 1.5.2 Personal protective equipment

Always use disposable nitrile or latex gloves when working with or on the HAWK Pen 2.



## 1.6 Limited abilities

Persons with reduced physical, sensory, or mental abilities or persons with a lack of experience or knowledge must not use the HAWK Pen 2.

There is a risk of suffocation from plastic bags and if swallowed.

Keep children away from packaging material (e.g., film, polystyrene) and HAWK Pen 2.

Children will underestimate the danger of using electrical appliances.



Rechargeable batteries can be lifethreatening. Keep batteries out of reach of small children accordingly. Medical assistance must be sought immediately if a battery has been swallowed.



## 1.7 Basic security

Special safety provisions may apply to particular activities. Safety notices and warnings can be found in the respective chapters of these instructions for use.

Ensure that the safety notices in these instructions for use are observed. Read these instructions for use carefully, especially the safety-related information, and adhere to these instructions for use before using the HAWK Pen 2.

#### 1.8 Contraindications

Only work with the HAWK Pen 2 if you can perform the work reliably. **Do NOT** the use the HAWK Pen 2 if your ability to react is affected, e.g., by drugs, alcohol, or medication.

#### 1.7.1 Modifications

Modifications of the HAWK Pen 2 are strictly prohibited.

Please discuss any necessary modifications with MT.DERM GmbH in advance and obtain written authorisation.

Otherwise, your warranty and guarantee rights will be voided, and a new conformity assessment may be necessary.

#### 1.8 Contraindications

The HAWK Pen 2 must not be used:

- in cases of haemophilia or other blood clotting disorders,
- while taking blood thinners (e.g., acetylsalicylic acid, heparin, aspirin, warfarin),
- in cases of uncontrolled diabetes mellitus,
- in cases of any form of active acne in the skin area to be tattooed,
- in cases of dermatoses (e.g., skin tumours, keloids, or extreme tendency to develop keloids, solar keratosis, warts, and/or moles) in the skin area to be tattooed,

- if there are any open wounds and / or eczema and / or skin rashes in the skin area to be tattooed,
- it there are any scars in the skin area to be tattooed,
- in cases of systemic infections and infectious diseases (e.g., hepatitis type A, B, C, D, E or F, HIV infection) or acute localised skin infections (e.g., herpes, rosacea),
- during chemotherapy, radiotherapy, or high-dose corticosteroid therapy (recommendation: from four weeks before the start to 4 weeks after the end of therapy),
- for up to 12 months after cosmetic surgery in the skin area to be tattooed.
- for up to 6 months after filler injections in the skin area to be tattooed,
- under the influence of alcohol and / or drugs,
- · during pregnancy and breastfeeding.

Treatment must be **STOPPED IMMEDIATELY** if the tattoo recipient experiences excessive pain, fainting spells, or dizziness.

# 1.9 Risks and dangers

#### 1.9.1 Explosion hazard

Damaged batteries cells may cause explosion and fire.

- ► <u>NEVER</u> use a damaged battery.
- ► Charge the battery in an ambient temperature of +10 °C ... +40 °C.
- <u>NEVER</u> charge any obviously damaged batteries.
- <u>NEVER</u> recharge a deep-discharged battery.
- **ONLY** charge rechargeable batteries.
- NEVER use any damaged chargers.
- Dispose of damaged batteries or chargers immediately.

#### 1.9.2 Toxic substances

Danger to life possible due to unsuitable tattooing inks.

- ► Only work with the HAWK Pen 2 if you are sufficiently trained.
- Only use dermatologically safe inks intended for tattooing.

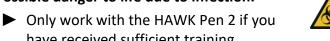


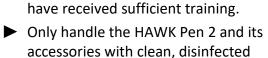


## 1.9.3 Poor hygiene

gloves.

#### Possible danger to life due to infection.





- Use a new protective tube, new gloves, and a new tattoo module for every person to be tattooed.
- Dispose of used protective tubes, gloves, and tattoo modules properly after use.
- ▶ Do not touch any freshly tattooed skin.
- Protect freshly tattooed areas of skin from dirt, UV, and sunlight.





## 1.9.4 Risk of stabbing and cutting

# Careless operation may cause cuts and punctures.



- Only work with the HAWK Pen 2 if you have received sufficient training.
- Only use original tattoo modules from Cheyenne.
- ► Touch the tattoo module <u>only</u> on parts that remain outside the machine, but not on the tip.
- Switch off the HAWK Pen 2 to change a tattoo module.
- ► <u>NEVER</u> push the needles out of the tattoo module.
- When removing the tattoo module, check that
  - the needles are completely in the tattoo module,
  - no ink residue runs into the handle.
- Dispose of tattoo modules professionally.
- Only remove tattoo modules from their sterile packaging immediately before use
- ► Place the HAWK Pen 2 so that the tattoo module is <u>NOT</u> resting on top.
- Have any wounds examined by a doctor immediately.

## 1.10 Adverse effects

In some cases, slight adverse effects may occur during and after tattooing. These are listed below.

#### Frequent:

- Localised bleeding in the tattooed skin area,
- Pain and discomfort on the first day after tattooing,
- Short-term inflammatory reactions, erythema, and/or oedema up to 6 days after tattooing,
- Skin irritation (e.g., itching or warming); this usually subsides in the first 12 to 72 hours after tattooing,
- Formation of scabs that will usually disappear within the first 5 days,
- Temporary flaking of the skin that usually subsides within 8 days.
- Increased UV sensitivity.

#### Rare:

- Formation of blisters from herpes simplex virus type I (HSV-I),
- Formation of small pustules, or milia as a result of careless skin cleansing before tattooing,
- Hyperpigmentation with the body's own pigments, in particular in darker skin types; this will disappear entirely again within a few weeks,
- Retinoid reaction (slight reddening or even peeling of the skin),

#### 1 Safety

#### 1.11 Behaviour in an emergency

possible heating of the pigmented area.

The following problems can also occur with the tattoo:

- · Differences in the shade of color,
- Pigment loss,
- Allergic reactions to components of the aseptic pigment ink.

# 1.11 Behaviour in an emergency

Switch off the HAWK Pen 2 if there is a risk of:

- injuries,
- damage to the HAWK Pen 2.

Take immediate action and call the local emergency number in cases of accidents.

# **2** Product description

# 2.1 Functional description

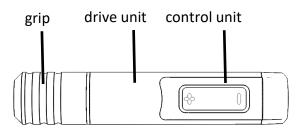
Table 2-1: Identification features

Product name / designation	Item number
HAWK Pen 2 black	CB61X01X02

The HAWK Pen 2 injects ink into the skin of a person to be tattooed using a high-frequency piercing needle.

The HAWK Pen 2 is generally operated via the following options:

- Plus button,
- Minus button,
- C button



# 2.2 Scope of delivery

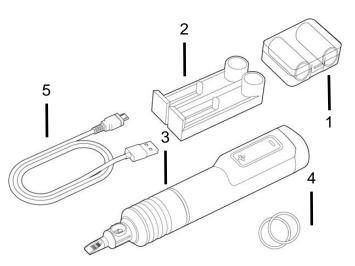


Figure 2-1: Scope of delivery

Item	Designation
1	1 battery box with 2 lithium-ion batteries
2	1 charger
3	1 Cheyenne HAWK Pen 2
4	2 O-rings
5	1 USB cable
	1 Short Guide
	1 declaration of conformity

# 2.3 Symbols on the product

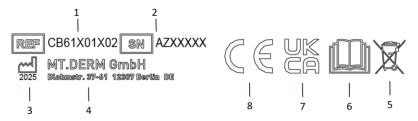


Figure 2-2: Symbols on the product

Item	Designation
1	Model number
2	Serial number
3	Year of manufacture
4	Manufacturer
5	Dispose of old electronics properly
6	Follow the instructions for use!
7	Satisfies UK legislation
8	Complies with the CE directives

# 2.4 Available accessories and consumables

You can purchase the following accessories from specialist dealers or in the <u>Cheyenne webshop</u> at www.cheyennetattoo.com:

- Cheyenne tattoo modules,
- Cheyenne grips:
  - Cheyenne aluminium grips,
  - Cheyenne steel grips,
  - Cheyenne disposable grips.
- Cheyenne battery P1835C2,
- Cheyenne charger,
- Cheyenne O-rings.

The following parts must be replaced for each new person to be tattooed:

- Protective tubes with diameters of 31 ... 35 mm,
- Cheyenne tattoo module.

#### MOTE NOTE

- Protective tubes must be replaced for each new person to be tattooed.
- ► Dispose of the protective tube after each tattoo.

#### 2.5 Technical data

#### 2.5.1 Ambient conditions

Table 2-2: Ambient conditions

#### Operation +10 ... +35 Ambient temperature [°C] [°F] +50 ... +95 Charging temperature [°C] +10 ... +40 [°F] +50 ... +104 Relative humidity 30 ... 75 [%] (non-condensing) [hPa] 200 ... 1060 Air pressure ≤ 70 Emitted noise level [dB] Storage Storage temperature [°C] -20 ... +50 [°F] -4 ... +122 Relative humidity [%] 30 ... 75 (non-condensing) Air pressure [hPa] 200 ... 1060

The conditions at the place of use of HAWK Pen 2 must at least comply with these conditions. Any use under other conditions is at your own risk. We recommend contacting <u>our customer service</u> beforehand.

#### 2.5.2 Dimensions

*Table 2-3:* Dimensions

Length	[mm]	134
Diameter (thickest point)	[mm]	25.4 (31)
Weight	[g]	135
Weight (without battery)	[g]	109

## 2.5.3 Operating values

Table 2-4: Dimensions

Penetration frequency	[Hz]	50 150
Stroke	[mm]	
HAWK PEN 2 3.5		3.5
Needle protrusion	[mm]	-1 4
Total vibration value	$[m/s^2]$	< 2.5

# 2.5.4 Charger data

Table 2-5: Charger data

Designation	Efest SLIM K2	
Input power	DC 5V 2A	
Charging end voltage	4.20V ± 0.05V	
Storage temperature	-40°C ~ + 70°C	
Operating temperature	0° - 40°C	
Charging current	1000mA ± 10 % x2	
Quiescent current consumption	20mA	

#### 2.5.5 Battery data

Table 2-6: Battery data

Battery designation		P1835C2
Battery type		Li-ion
Nominal battery voltage	[V]	3.7
Length	[mm]	38.8
Diameter	[mm]	18.3
Battery weight	[g]	26
Nominal capacity	[mAh]	1200
Charging voltage	[V]	4.2
Max. charging current	[A]	1.1
Insulation class		III
IP code		IP20

#### **Note**

▶ When HAWK Pen 2 is powered on for the very first time, it performs an automatic battery calibration. During this short calibration period of 2–3 minutes, the battery level indicator may temporarily display as empty even though the battery has charge. Once calibration is complete, the correct battery level will be shown. This process only occurs once. After the initial calibration, the device will remember the battery information and display the charge level correctly on all future starts.

# 2.6 Material compatibilities

#### 2.6.1 Standard disinfectant

Preferably use one of the following disinfectants:

Table 2-7: Disinfectant

Manufacturer	Product	Application time
Antiseptica	Big Spray "new"	1 to 5 min
Bode Chemie	Bacillol	30 s to 1 min
Ecolab	Incidin Foam	1 to 2 min
Schülke & Mayr	Mikrozid Liquid	1 to 2 min

#### 2.6.2 Other disinfectants

You can also use the following material compatibilities to determine which other cleaning agents and disinfectants are suitable.

The anodised aluminium components, plastic parts, silicone parts of the control unit, and seals of HAWK Pen 2 are resistant to:

- weak acids (e.g., boric acid ≤ 10%, acetic acid ≤ 10%, citric acid ≤ 10%),
- aliphatic hydrocarbons (e.g., pentane, hexane),
- ethanol,
- most inorganic salts and their aqueous solutions (e.g., sodium chloride, calcium chloride, magnesium sulphate).

The anodised aluminium components, plastic parts, silicone parts of the control unit, and seals of HAWK Pen 2 are not resistant to:

- strong acids (e.g., hydrochloric acid ≥ 20%, sulphuric acid ≥ 50%, nitric acid ≥ 15%),
- oxidising acids (e.g., peracetic acid),
- caustic solutions (e.g., caustic soda, ammonia, and all substances with a pH value > 7),
- aromatic / halogenated hydrocarbons (e.g., phenol, chloroform),
- acetone and petrol.

# 2.7 Operating concept

## 2.7.1 Operating elements

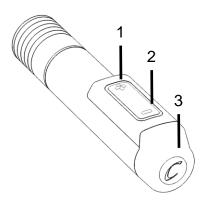


Figure 2-3: Operating elements

Item	Designation
1	Plus button - increasing value
2	Minus button - decreasing value
3	C button - Switching the machine/ motor on/off

#### **NOTE**

The minus button and plus button must  $\underline{NOT}$  be pressed simultaneously. This can damage the display, as it is a rocker switch.

# 2.7.2 Error displays and device warning signals

The following error codes are defined in HAWK Pen 2:

- 01 Motor stall
- 02 Undervoltage
- 03 Overvoltage
- 04 Overcurrent
- 05 Temperature

#### **M** NOTE

► Error messages can be acknowledged by pressing the C button.

To fix errors, refer to the troubleshooting table in section "Fehler! Verweisquelle konnte nicht gefunden werden. Fehler! Verweisquelle konnte nicht gefunden werden.".

#### 2 Product description

#### 2.7 Operating concept

# 2.7.3 Navigation

The HAWK Pen 2 is operated as follows:

#### Switching on/off

Machine: Hold down C button until Cheyenne-

lettering appears
Motor: Press C button

#### **Setting penetration frequency**

Press plus/minus button: Steps

Hold down plus/minus button: Scroll through

#### **Switching motor mode**

(Device: On/ Motor: Off)

Hold down C button and press plus button

#### Switch volts/hertz

(Device: On/ Motor: Off)

Hold down C button and press minus button

#### **M** NOTE

► HAWK Pen 2 switches off after 3 minutes of inactivity.

# 3 Transporting, storage, unpacking

#### **MWARNING**

Risk of explosion and fire due to improper transport of lithium-ion batteries.



- Only transport and store your batteries subject to the specified storage and transport conditions.
- Always use the plastic battery box to transport the batteries.
- ► <u>Never</u> transport the batteries loose in the bag since metal parts (e.g., keys) may cause a short circuit.
- Remove the battery before transporting the HAWK Pen 2 and store it in the battery box.

#### **ATTENTION**

Damage to the motor may occur if HAWK Pen 2 falls.

- Always put the HAWK PEN 2 down carefully so that it cannot roll away and fall down.
- ► Perform a visual inspection and a listening test for unusual noise by gently shaking the device if the HAWK Pen 2 has fallen.

#### **⚠ CAUTION**



Injuries may occur due to malfunction of HAWK Pen 2.

- ▶ Do not switch on HAWK Pen 2 if it looks or sounds unusual.
- ▶ Do not continue to use HAWK Pen 2.
- Send HAWK Pen 2 to MT.DERM GmbH for testing and repair.

#### 3.1 Transport

# 3.1 Transport

Table 3-1: Dimensions transport case

Length	[mm]	215
Width	[mm]	128
Height	[mm]	70

HAWK Pen 2 is shipped in a cardboard and plastic parcel.

#### **NOTE**

► Either send HAWK Pen 2 in the original box or label the box as hazardous goods because of the batteries.

Transport the HAWK Pen 2 as follows:

- 1. Transport HAWK Pen 2 and its accessories with sufficient padding.
- 2. Observe the ambient conditions, see chapter "2.5.1 Ambient conditions".
- 3. Always carry the case with HAWK Pen 2 to its destination with care.
- ✓ You have transported HAWK Pen 2.

# 3.2 Storing

Observe the information on storage temperature and humidity, see chapter "2.5.1 Ambient conditions".

#### **MOTE**

- ► Most airlines will only permit transport of HAWK Pen 2, including the batteries, in an aircraft in hand luggage.
- ► Check with the airline before travelling.
- ► Always store HAWK Pen 2 and its accessories under the specified storage conditions.

# 3.3 Unpacking

The packaging material comprises cardboard and plastic.

#### **NOTE**

► Keep the packaging in case you need to repack HAWK Pen 2 or want to store it for longer.

Recycle the packaging material in an environmentally friendly manner.

# 4 Prepare for use

#### **ATTENTION**

# Condensation may cause damage to the electronics.

- ▶ Do not use HAWK Pen 2 for at least 30 minutes to allow HAWK Pen 2 to acclimatise if HAWK Pen 2 has been exposed to large temperature fluctuations, for example during transport.
- Check that HAWK Pen 2 has reached the ambient temperature before commissioning.
- Wait for at least 3 hours per 10 °C temperature difference before operating HAWK Pen 2 after any large temperature fluctuations.
- Observe the specified ambient conditions, see chapter "2.5.1 Ambient conditions".

# 4.1 Disinfecting the equipment

#### **ATTENTION**

#### Penetrating liquids may damage the drive.

- Never soak HAWK Pen 2 (drive unit + control unit) in any disinfectant.
- ► Never spray any liquids directly onto HAWK Pen 2.

#### **ATTENTION**

#### Unauthorised disinfectants may cause damage.

- ▶ Disinfectants that are not compatible with the materials of the product may cause damage to its surface.
- ► Only use disinfectants that are approved in accordance with the regulations of your country.
- ► Observe the list of recommended disinfectants, see chapter "2.6.1 Standard disinfectant".

#### Disinfect HAWK Pen 2 as follows:

- 1. Switch off HAWK Pen 2.
- 2. Check whether HAWK Pen 2 is grossly contaminated by ink or body fluids that have run back.



Figure 4-1: Unscrewing the grip

- 3. Unscrew the grip from the drive unit.
- 4. ATTENTION! Physical damage caused by penetrating liquids. Do NOT spray any liquids onto HAWK Pen 2 and do not soak it in disinfectant.
- 5. Wipe the HAWK PEN 2 and its components with a soft cloth moistened with cleaning agent or disinfectant.
- 6. Use a soft nylon brush or a cotton bud to clean surfaces that are difficult to access, such as the thread of the drive unit.
- Ink streaks may occur due to the nature of the surface.
- 7. Screw the grip onto the drive unit and insert the operating unit.



Figure 4-2: Screwing on the grip

✓ You have disinfected HAWK Pen 2.

# 4.2 Working on the battery

#### **⚠ WARNING**



# Contaminated accessories may lead to infection.

► Touch HAWK Pen 2 and its accessories **ONLY** with clean, disinfected gloves.

#### **⚠ WARNING**



# Risk of explosion and fire due to incorrect handling of batteries.



- **ONLY** charge the battery in an ambient temperature of +10 °C ... +40 °C.
- NEVER recharge any deeply discharged batteries. Battery cells that have been discharged below 2.5 V are irreversibly damaged.
- **ONLY** charge rechargeable batteries.
- NEVER charge any damaged batteries.
- Never use any damaged chargers.
- Dispose of damaged batteries or chargers immediately.

## 4.2.1 Charging the battery

#### **ATTENTION**

Incorrect power supply may cause physical damage.

- Only use the charger included in the scope of delivery or a charger recommended by MT.DERM GmbH.
- ▶ Observe the output data of the USB socket used.
- ➤ Only use USB sockets whose output data matches that of the charger, see chapter "2.5.4 Charger data".
- ► If the output current is too low, the charging time will be accordingly longer.
- ➤ Suitable voltage sources include:
  - the USB power adapter from your smartphone or tablet,
  - your power bank.

You can use the charger included in the scope of delivery for the following Li-ion batteries:

- with the voltage: 3.6 / 3.7 V,
- of the types IMR / INR / ICR,
- sizes 18350 / 16340 / 10440 / 14500 / 18500 / 18650 / 20700 / 26650.

#### **MAPS NOTE**

- ► The battery is supplied partly charged.
- ► Fully charge the battery with the charger before using the device for the first time to ensure full battery performance.
- ► You can charge an additional battery at any time.
- Interrupting the charging process will not harm the battery.
- The charger works best with a power supply with a maximum charging current of 2A.

Perform a charging process as follows:

1. Connect the charger to a USB socket using the USB cable.

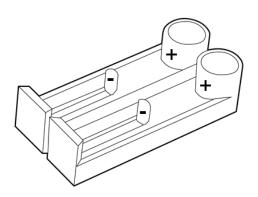


Figure 4-3: Charger polarity

#### 4.2 Working on the battery

- 2. Place one or two rechargeable batteries in the slots of the charger in the orientation / polarity shown.
- The charger charges each battery with a maximum charging current of 1.0 A. The charging time for a 1200 mA battery is approx. 1 hour.
- The LEDs on the charger flash while the battery is charging.
- Depending on the charge level, the LEDs start to light up continuously:
  - LED1 ... LED4 flash: State of charge 0 ... 25%,
  - LED1 lights up, LED2 ... LED4 flash: State of charge 25 ... 50%,
  - LED1 ... LED2 light up, LED3 ... LED4 flash: State of charge 50 ... 75%,
  - LED1 ... LED3 light up, LED4 flashes: State of charge 75 ... 99%,
  - LED1 ... LED4 light up: Charge level 100%.
- All LEDs flash simultaneously if an error has occurred.
  - This happens, for example, in case of a short circuit or if the battery is inserted the wrong way around.
- ✓ You have completed the charging process.

# 4.2.2 Replacing the battery

Replace the battery as follows:



Figure 4-4: Turn the cover and remove it.

2. Pull the battery out of the machine.

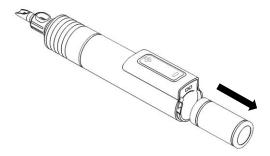


Figure 4-5: Removing the battery

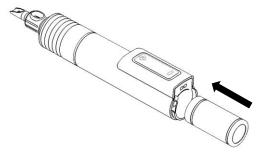


Figure 4-6: Inserting the battery

- 3. Insert a charged battery into the machine.
- 4. Ensure that the positive pole of the battery is pointing towards the tattoo module.

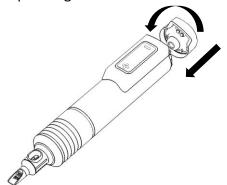


Figure 4-7: Put the cover on and close it.

- 3. Put the cover on and turn it until it clicks into place.
- ✓ You have changed the battery.

# 4.3 Attaching the protective tube

#### **MWARNING**



Contaminated protective tubes may cause infection.

Use a new protective tube for each person to be tattooed.

#### **ATTENTION**

Penetrating liquids may damage the drive.

Only use protective tubes with suitable dimensions.

Pull on the protective tube as follows:

1. Prepare a protective tube of sufficient length.



Figure 4-8: Unscrewing the grip

2. Unscrew the grip from the drive unit entirely.

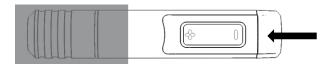


Figure 4-9: Pulling on the protective tube

- 3. Pull the end of the protective tube completely over HAWK Pen 2.
- 4. Prepare the grip hygienically:
  - Aluminium grip: Clean the grip by wiping, in an ultrasonic bath or in an autoclave, see chapter "7.2 Clean".
  - Disposable grip: use a new, sterile grip.



Figure 4-10: Tightening the grip

- 5. Screw the grip onto the thread of the drive unit.
- ✓ You have put on the protective tube.

# 4.4 Installing the tattoo module

#### **⚠ WARNING**



#### Contaminated needles may cause infection.

- ► **NEVER** work without disposable gloves
- ► <u>Never</u> touch the used tattoo module by the tip or the needle shaft.
- Check that the needles are fully retracted into the tattoo module after removing a used tattoo module.
- Consult a doctor after any injuries with a contaminated needle.
- ➤ The tattoo modules are delivered in sterile packaging. Only remove them from their sterile packaging immediately before use.
- Only use original Cheyenne tattoo modules. The built-in safety diaphragm prevents ink and bodily fluids from penetrating your HAWK Pen 2.
- Dispose of used tattoo modules properly, see chapter "8.2 Storage and disposal".

#### **A** CAUTION



#### Punctures from the needle may occur.

- Switch off HAWK Pen 2 before changing the tattoo module.
- Never touch the needle module by its tip or the bayonet catch.
- ► Always place HAWK Pen 2 so that the tattoo module is not resting on top.
- Never push the needles out of the tattoo module.
- Prevent ink residue from running into the handle when removing a used tattoo module.
- ► Initiate suitable first aid measures immediately after any injury with a contaminated needle.
- Consult a doctor after any injuries with contaminated needles.
- ▶ Dispose of used tattoo modules properly, see chapter "8.2 Storage and disposal".

Change the tattoo module as follows:

1. Switch off the HAWK Pen 2.

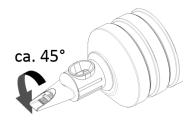


Figure 4-11: Unscrewing tattoo module

2. Turn the old tattoo module counter-clockwise by approx. 45°.

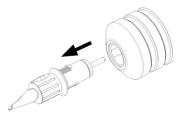


Figure 4-12: Pulling out tattoo module

3. Pull the old tattoo module out of the opening of the grip.

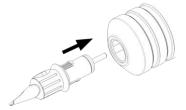


Figure 4-13: Inserting the tattoo module

4. Insert the new tattoo module into the opening of the grip.

You can only insert the tattoo module into the oval opening in two ways due to its locking points.

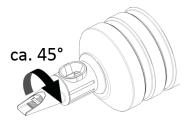


Figure 4-14: Latching the tattoo module

5. Rotate the tattoo module clockwise by approx. 45°.

You will feel several locking points until the tattoo module engages completely when turning.

- 6. Check that the tattoo module is firmly in place.
- ✓ You have changed the tattoo module.

# 4.5 Checking the equipment

Check the equipment of HAWK Pen 2 as follows:

- 1. Check HAWK Pen 2 equipment for external damage.
- 2. WARNING! Damage to HAWK Pen 2 may cause injuries and property damage.



- If you notice any external damage, do not use HAWK Pen 2.
- Contact MT.DERM GmbH for repair (support@cheyennetattoo.com).
- 3. Check that the tattoo module is correctly aligned.
- 4. WARNING! A damaged tattoo module may cause injuries and property damage.



- Always use a tattoo module with correct alignment.
- 5. Check the battery for visible damage.
- 6. WARNING! Damaged battery cells may pose a risk of explosion and fire.
  - NEVER use any damaged batteries.
  - Dispose of any damaged batteries in accordance with the provisions in your country.





- 7. Switch on HAWK Pen 2 and perform a listening test.
- 8. WARNING! Damage to HAWK Pen 2 may cause injuries and property damage.



- Switch off HAWK Pen 2 immediately if you hear any noticeably loud or unusual noises. This suggests damage to HAWK Pen 2.
- Contact MT.DERM GmbH for repair (support@cheyennetattoo.com).
- You have checked the equipment of HAWK Pen 2.

## 5 Use

# 5.1 Preparation on the person to be tattooed

Clean the skin of the person to be tattooed as follows before tattooing:

- 1. Use disposable gloves made of nitrile or latex.
- 2. Disinfect the disposable nitrile or latex gloves.

# 3. CAUTION! Aggressive disinfectants may cause skin damage.



- Observe the applicable guidelines in your country when selecting suitable cleaning agents and disinfectants.
- 4. Clean the affected areas of the skin of the person to be tattooed with a mild cleanser and disinfectant person to be tattooed.
- You have cleaned the skin of the person to be tattooed before tattooing.

# 5.2 Start and stop

#### **MOTE**

Operation is as described in the chapter "2.7 Operating concept".

Start and stop HAWK Pen 2 as follows:

- 1. Switch on HAWK Pen 2: Long press C button.
- 2. Start the motor: Press C button.
- The motor starts.
- 3. Stop the motor: Press C button
- The motor stops.
- You have started and stopped HAWK Pen 2.

# 5.3 Needle protrusion

#### **A** CAUTION



Punctures may reach the subcutaneous fatty tissue at excessive needle protrusion.

- ► A large needle protrusion enables a large penetration depth.
- ► If the needle protrusion and penetration depth are too great, the subcutaneous fatty tissue can be damaged.
- ► Always start with a low needle protrusion when using HAWK Pen 2.

#### **ATTENTION**

The safety membrane may be damaged if the needle protrudes too far.

➤ The safety membrane of the tattoo modules can be overstretched and damaged if the needle protrudes too far. Set the needle protrusion as follows:

- 1. Switch on HAWK Pen 2: Long press C button.
- 2. Turn the grip to adjust the needle protrusion.

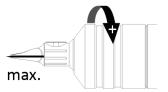


Figure 5-1: Increasing the needle protrusion

3. Increase the needle protrusion by turning clockwise.

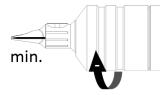


Figure 5-2: Reducing the needle protrusion

- 4. Reduce the needle protrusion by turning counter-clockwise.
- 5. Check the needle protrusion of HAWK Pen 2 before tattooing.
- ✓ You have adjusted the needle protrusion.

# 5.4 Penetration frequency

#### **A** CAUTION



# An excessive penetration frequency may cause cuts.

Always start with a low penetration frequency.

#### **NOTE**

- ► The adjustable frequency is between 50 Hz and 150 Hz / 6.3-12.5 V.
- The machine only saves the settings when it is switched off correctly.
- Operation is as described in section "2.7 Operating concept".
- ► The minus button and plus button must <u>NOT</u> be pressed simultaneously. This can damage the display, as it is a rocker switch.

Set the penetration frequency as follows:

- 1. Switch on HAWK Pen 2, C  $\downarrow$ O.
- The main screen will appear on the display and show the last set or used penetration frequency as a frequency (Hz) or as a voltage (V), depending on the setting.
- Set the appropriate penetration frequency with + / - buttons. The penetration frequency must match:
  - Skin condition of the person to be tattooed,
  - Needle protrusion and individual penetration depth when working and
  - Working speed.
- ✓ You have set the penetration frequency.

# 5.5 Steady Mode and Responsive Mode

On HAWK Pen 2, you can choose between the two operating modes "Steady Mode" and "Responsive Mode". The operating modes differ due to a different motor control.

You can only change the mode of HAWK Pen 2 when the motor is stopped.

#### **NOTE**

Operation is as described in the chapter "2.7 Operating concept".

#### 5.5.1 Steady Mode

In "Steady Mode," HAWK Pen 2 always operates at the same piercing frequency.

HAWK Pen 2 adapts to the load and supplies the motor with the appropriate power.

#### 5.5.2 Responsive Mode

In "Responsive Mode," the motor reacts more sensitively to skin resistance. This means that the pricking frequency decreases slightly after a short delay.

# 5.6 Picking up ink

Pick up ink with the needles as follows:

- 1. Dip the tip of the tattoo module into the desired ink for 2 to 3 seconds while the machine is running immediately before use.
- 2. Avoid contact with the ink tank.
- The needles absorb the ink.



Figure 5-3: Alternative: Ink opening

- 3. Alternatively, you can fill the ink into the opening on the tattoo module using a sterile pipette.
- ✓ You have picked up ink with the needles.

# 6 Faults, messages, and errors

#### 6.1 Procedure in case of faults

Always remedy any faults as follows:

- 1. Make sure that there is no danger to any persons or objects. Switch off HAWK Pen 2 immediately if any danger threatens.
- 2. Record the circumstances that led to the fault.
- Record the error messages displayed, see chapter "6.2.2 Fehler! Verweisquelle konnte nicht gefunden werden.".
- 4. Check whether you can remedy the fault directly or whether you need to instruct authorised specialists to do so.
- 5. Contact MT.DERM GmbH if necessary.
- ✓ You have remedied the fault.

# 6.2 Unstable needle protrusion

Eliminate an uncontrolled change in needle protrusion as follows:

- 1. If the grip no longer remains fixed, thoroughly clean the inside of the handle, the thread of the drive unit, the grooves and the small O-ring (see chapter "7.2 Clean").
- 2. Also replace the small O-ring if the problem persists.
- The needle protrusion should be fixed during operation.
- 3. If the problem persists, please contact a specialist dealer or MT.DERM GmbH.
- You have eliminated the uncontrolled change in needle protrusion.

## 7 Care

# 7.1 Periodic inspection

Table 7-1: Inspection schedule

Interval	Component	Inspection / work
Before each use	HAWK Pen 2	Visual inspection for wear or damage
	grip, surfaces	Clean / disinfect
At visible soiling	grip	Clean in an ultrasonic bath
		Sterilise in an autoclave
Daily	Labelling and / or engraving on the components	Visual inspection, clean illegible labelling and / or engravings as necessary
In case of wear	O-rings	Visual inspection, replace O-rings as necessary

#### **MAPS NOTE**

➤ Contact MT.DERM GmbH if you encounter any difficulties during the activities / tests that you cannot resolve.

# 7.2 Cleaning

#### **ATTENTION**

Damage to the drive due to short circuit possible.

- ► <u>NEVER</u> disassemble or clean any components of HAWK Pen 2 while they are energised.
- ➤ Always disconnect HAWK Pen 2 from its power source entirely for any cleaning and maintenance work (remove control unit, remove battery).

#### **ATTENTION**

#### Penetrating liquids may damage the drive.

- Never soak HAWK Pen 2 in disinfectant.
- NEVER clean the drive unit, the control unit, and other electrical parts (e.g., battery) in an autoclave or in an ultrasonic bath.
- When selecting cleaning agents and disinfectants, observe the material compatibility, see chapter "2.6 Material compatibilities".

#### 7.2.1 Surface

Clean the surfaces of HAWK Pen 2 before and after each use as follows:

- 1. Disinfect all surfaces of HAWK Pen 2, see chapter "4.2 Disinfecting the equipment".
- 2. Check for external soiling.
- 3. Remove the grip from the drive unit if there is any external soiling.
- 4. ATTENTION! Damage to the drive unit possible. Ensure that the contact pins are not damaged during cleaning.
  Wipe the handle, drive unit, control unit, and the protective tube with a soft cloth moistened with cleaning agent or disinfectant.
- 5. Dispose of the protective tube properly.

- 6. Use a soft nylon brush or a cotton bud to clean surfaces that are difficult to access, such as the thread of the drive unit.
  - Due to the nature of the surface, ink fogging may occur on HAWK Pen 2.
- 7. Screw the grip and drive unit together.
- You have cleaned the surfaces of HAWK Pen 2.

#### 7.2.2 Clean the grip in an ultrasonic bath

Clean the handle in an ultrasonic bath as follows if it is very dirty:

- 1. Use the cleaners Tickomed 1 or Tickopur R33 from the manufacturer Dr H. Stamm GmbH according to the manufacturer's instructions.
- 2. The pH value must not exceed 7.
- 3. Perform the cleaning for 10 minutes at a frequency of 35 kHz.
- 4. Dry the grip completely after cleaning before using it again.
- ✓ You have cleaned the grip in an ultrasonic bath.

# 7.2.3 Sterilising a contaminated handle in an autoclave

Sterilise the contaminated grip in the autoclave as follows:

- 1. Disinfect all surfaces of HAWK Pen 2, see chapter "4.2 Disinfecting the equipment".
- 2. Sterilise the grip in the autoclave for 20 minutes at a temperature of 121 °C and a pressure of 2 bar.
- 3. Dry the grip completely after cleaning before using it again.
- ✓ You have sterilised the contaminated grip in the autoclave.

## **7.2.4** O-rings

Clean or replace the O-rings if the handle is too easy to turn and the needle protrusion changes uncontrollably as follows:

- 1. Degrease the O-rings with a soft cloth moistened with cleaning agent or disinfectant.
- 2. If the problem persists, replace the O-rings with new ones and grease them with silicone grease if necessary.
- ✓ You have cleaned or changed the O-rings.

# 7.3 Repair

If your HAWK Pen 2 is damaged, send it in.

Contact our <u>support</u> (support@cheyennetattoo.com).

For further contact details, see the end of these instructions.

# 8 Storage and disposal

# 8.1 Repacking and storage

#### **ATTENTION**

Incorrect storage may cause damage.

- ➤ Observe the information on storage temperature and humidity, see chapter "2.5.1 Ambient conditions".
- Only store HAWK Pen 2 in its case and original packaging.
- ► If the machine is not going to be used for a long period of time, remove the battery from the machine.

# 8.2 Disposal and recycling

Ensure safe and proper disposal, in particular of parts or substances that are harmful to the environment.



Disposal of HAWK Pen 2, including operating materials and cleaning fluids, is subject to local disposal regulations and environmental laws.

The local municipal authority can provide you with information on this.

Properly dispose of any materials that can be recycled with consideration for our environment.

Rechargeable batteries (including damaged ones) should not be disposed of in the household waste.



Dispose of any old or used batteries properly, e.g., in the collection boxes in shops or at municipal collection centres.

The packaging material comprises cardboard and plastic. Separate the packaging materials and recycle each fraction in an environmentally friendly manner.

### 9 Annex

# 9.1 Warranty statement

You have purchased a high-quality branded product with the HAWK Pen 2 from Cheyenne.

The HAWK Pen 2 is guaranteed to be reliable based on the latest testing techniques and certification. MT.DERM GmbH is certified to DIN EN ISO 13485:2016 (quality management system for medical devices).

The product is guaranteed for one year against malfunctions caused by defects in material or workmanship.

We guarantee sterility of the tattoo modules in sealed and undamaged packaging in compliance with the transport and storage conditions until the specified expiry date.

The expiration date can be found on the label of the tattoo modules. If you have a complaint about tattoo modules, please inform us of the batch number printed on the label.

MT.DERM GmbH accepts no liability for the following damage:

- Damage and consequential damage caused by improper use or non-compliance with the instructions for use.
- Damage caused by the ingress of liquids or dirt into the drive unit.
- Damage and consequential damage caused by falling or dropping.

# 9.2 EU/EC Declaration of Conformity

The manufacturer: MT.DERM GmbH, Blohmstraße 37-61, 12307 Berlin, Germany

Hereby declares on its own responsibility that the following products:

Product name: Battery-powered tattoo machine

Product name: HAWK Pen2 Item number: CB61X01X02

comply with the provisions of the following directives:

EU UK

Machinery Directive 2006/42/EG Electromagnetic Compatibility Regulations 2016 EMC-Directive 2014/30/EU Electrical Equipment (Safety) Regulations 2016

RoHS-Directive 2011/65/EU

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

#### The following standards were applied:

IEC 60335-1:2020

Household and similar electrical appliances - Safety - Part 1: General requirements

IEC 60335-2-23:2016 + A1:2019

Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair ca

CISPR 14-1:2020-09 and DIN EN IEC 55014-1:2022-12

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

CISPR 14-2:2020-08 and DIN EN IEC 55014-2:2022-10

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard

DIN EN IEC 63000:2019-05

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Authorized representative for compiling the relevant technical documentation: Dr. Jan Tentrop, MT.DERM GmbH, Documentation Officer

This declaration is made on behalf of the manufacturer by:

Berlin, 01.08.2025, Jörn Kluge

(Signature of the managing director or his authorized representative)

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