

Operating Manual



Case Annealer V1.0

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SAFETY INSTRUCTIONS

Read all safety and general instructions carefully. Failure to observe these instructions may result in fire, electric shock, burns, or serious injury.

- Only operate the device if you fully understand its functions or have received proper instruction.
- This device is not intended for use by children or persons with physical, sensory, or mental limitations unless supervised by a responsible person who understands the associated risks. This device is not a toy.
- Supervise children during use, cleaning, and maintenance. Do not allow children to play with the device.
- The device is designed to work in conjunction with a gas torch (not supplied). The torch must be securely mounted and operated according to its own safety instructions. Incorrect flame alignment may result in fire, explosion, or damage to the device.
- During operation, the brass cases and nearby components may become extremely hot. Avoid contact with heated surfaces and allow sufficient cooling time before handling.
- Keep fingers, hair, and loose clothing away from rotating components.
- Do not operate the device near flammable materials or in explosive environments.
- The device is not waterproof. Do not expose it to rain, moisture, or wet conditions.

SAFETY INSTRUCTIONS

- Only use a CE marked 12V DC power supply rated at 3A or higher. Using incompatible power supplies may result in fire or electric shock.
- Inspect the power supply and cable before use. If damaged, discontinue use immediately and contact the manufacturer. Do not attempt to repair the device yourself.
- Ensure adequate ventilation during operation. If unusual odors or vapors occur, stop using the device and ventilate the area.

Disclaimer:

The manufacturer is not responsible for damage or injury resulting from improper use, modifications to the device, or operation contrary to the instructions provided in this document.

PRODUCT DESCRIPTION AND SPECIFICATIONS

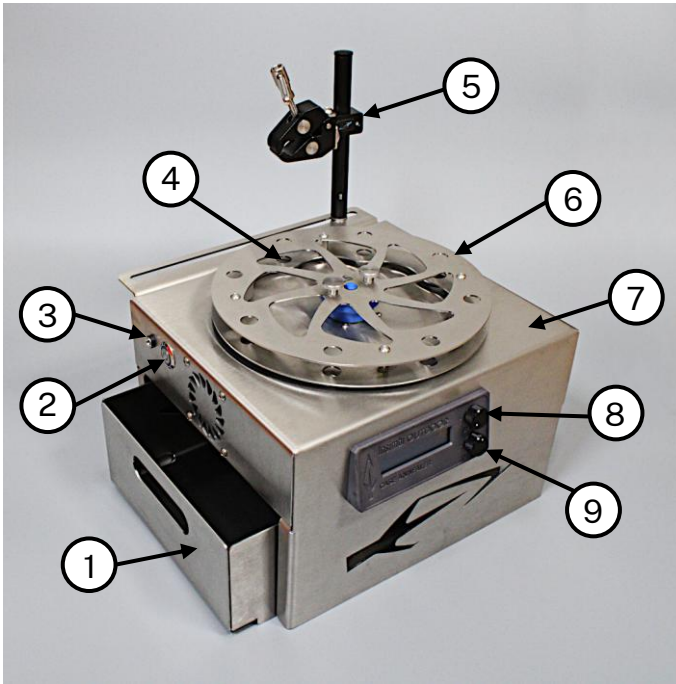
Intended Use

The Case Annealer is designed for controlled heat treatment of cartridge cases in private reloading environments.

Technical Data

Specification	Value
Operating voltage	12V DC
Maximum current draw	3A
Required power supply output	12V DC, 3A (minimum)
Case rotation speed	Adjustable: 1 to 10
Delay time	Adjustable: 2,0 s to 20,0 s
Burner compatibility	Standard gas torch
Housing material	Stainless steel
Operating Temperature	5°C to 35°C
Dimensions (excl. burner bracket)	262 × 288 × 191 mm (WxDxH)
Weight (excl. case disk)	3.53 kg

PRODUCT DESCRIPTION AND SPECIFICATIONS



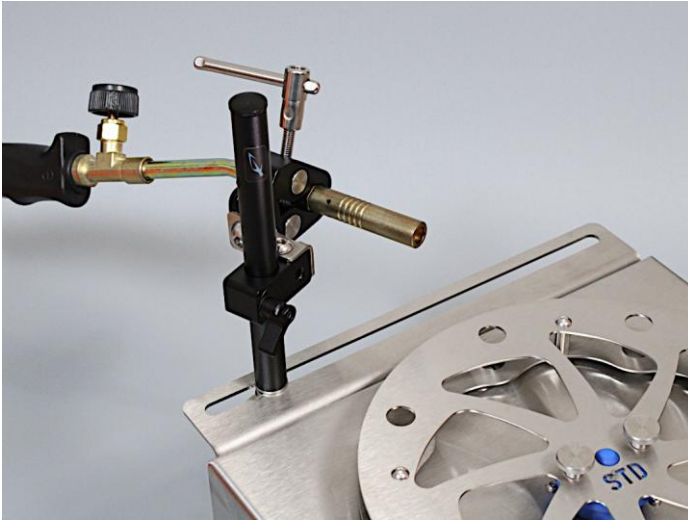
1. Case bin
2. Power switch
3. DC input jack (12V)
4. Case rotor for case rotation during heating
5. Rear mounted burner bracket
6. Rotating case disk
7. Stainless steel housing
8. Rotation speed control knob
9. Delay time control knob

SETUP AND OPERATION



Select the correct case disk for the cartridge you want to anneal. Place the disk onto the case disk spindle and secure it using the two supplied M4 knurled screws. Ensure the disk sits flat and rotates freely.

SETUP AND OPERATION



Attach the gas burner bracket to the rear rail using the

supplied M8 knurled screw. Place one washer above the rail and the other below it. Mount the gas torch securely in the bracket and adjust its position as needed. Aim the flame at the base of the case shoulder and note the nozzle to case distance for future sessions.

Note: Ensure the flame is aligned correctly and does not heat any part of the case annealer directly. Overheating components may cause damage and can result in burns if touched. Avoid contact with heated parts during and immediately after operation.

SETUP AND OPERATION



Connect the 12 V adapter to a suitable power outlet and plug it into the DC input jack. Switch on the power switch - the LED will illuminate and the display will show the startup message.

SETUP AND OPERATION



Set the delay time to 20,0 s and the rotation speed to 10. This provides enough time to adjust the case disk position. With the case disk stationary, rotate it by hand until the holes align with the case rotor. The stepper motor has fixed holding positions; if the hole does not align immediately, continue rotating the case disk until you reach a position where both align. Up to one full rotation may be required.

SETUP AND OPERATION



Adjust the delay time and rotation speed using the front control knobs. The delay time can be set from 2,0 s to 20,0 s in 0,1 s increments and the rotation speed from 1 (slowest) to 10 (fastest). To determine the correct settings for your cartridge, apply Tempilaq to the case and observe the heating response. Once optimal settings are found, record them for future sessions with the same case type.

SETUP AND OPERATION



Start the annealing process. The turntable will rotate and position each case under the flame. The small rotor spins the case during heating to ensure even temperature distribution. When the case disk is stationary, you may drop a new case into any open hole in the disk; set the rotation speed so you can work comfortably. Once a case reaches the opening in the housing, it will fall through into the case bin.

Note: Sometimes the case disk may move in small increments and lose its alignment with the case rotor. This can occur due to minor electronic interference and is normal for this type of system. If it happens, simply rotate the case disk by hand until both are aligned again.

TROUBLESHOOTING

Device does not power on

- Ensure the 12V DC power supply is connected to the DC input jack.
- Verify the wall outlet is functioning.
- Check that the power switch is in the ON position.
- Inspect the DC plug for looseness or damage.

Case disk does not rotate

- Ensure the case disk is seated correctly on the case disk spindle.
- Verify that the knurled screws are installed and tightened.

Case does not spin on the small rotor

- Check whether the case disk is positioned correctly so that the holes are aligned with the rotor. If necessary adjust the position.

MAINTENANCE AND SERVICE

- Clean the housing with a dry cloth. Do not immerse or expose to moisture.
- Inspect moving parts regularly for wear.
- Replace the power adapter only with the specified 12V 3A model.

For service inquiries, contact: info@insimbioutdoor.com

DISPOSAL

- Dispose of the device in accordance with local electronic waste regulations.
- Do not discard with household waste.

Only for EU countries: According to Directive 2012/19/EU on Waste Electrical and Electronic Equipment, devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.



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