eCrush™

Electronic Crushing of medication

User manual

Model number RW01
Always read this manual before use.

EN **eCrush™** is an easy-to-use, reliable and easy-to-clean electronic pill crusher. When used correctly, eCrush™ is designed to render ~100.000 crushes.

Please check all parts within the packaging:

1. 1 eCrush™ Electronic pill crushing device
2. 1 set of AC/DC adaptor and power cord
3. 1 re-chargeable Li-Ion battery
4. 1 screwdriver
5. 1 cup holder
6. 100 disposable crushing cups

First time use and set up:

1. Take eCrush™ out of the transport packaging and check its surface to ensure there is no visual damage before use. **2.** Open the battery cover using the mini screwdriver provided. An insulated wire with connector assembled inside the battery compartment is now visible. Put the rechargeable Li-Ion battery in and connect with the connector on the inside. Close the battery cover. **3.** Connect the crushing device to the power source using the AC/DC adaptor. Power rating is 100~240V AC50/60Hz. The machine is now charging. **4.** eCrush can be used either with rechargeable Li-ion battery or AC/DC adaptor only. If you do not use the battery, please disconnect from the machine and take it out. **5.** Press the rectangular OPEN button to open the lid. **6.** Place the cup holder inside the machine. **7.** Place the disposable crushing cup with medication in the cup holder. **8.** Place another disposable cup on top of the medication. You ALWAYS use 2 cups with the medication in between per crush. **9.** Close the lid. **10.** Press the right button to turn on the machine. **11.** Press left button to start crushing. The crushing process will take about 22/23 seconds. **12.** Press OPEN button to open the lid and remove the cups and cup holder. **13.** Take the cups from the holder. Check for visual contamination before administration of the medication.

Button indications:

Button	On battery power	When plugged in
Power on/ off button	Sleep: All LEDs are off Activated/ Ready to Operate: LED is BLUE During Crushing: LED is BLUE Crushing ERROR: LED is RED	Sleep: All LEDs are off Charging: LED is RED Fully charged: LED is BLUE Activated/ Ready to Operate: LED is BLUE During Crushing: LED is BLUE Crushing ERROR: LED is RED
crushing button	Sleep: All LEDs are off Activated/ Ready to Operate: LED is GREEN During Crushing: LED is flashing GREEN Crushing ERROR or Battery level <25%: LED is RED	Sleep: All LEDs are off. Activated/ Ready to Operate: LED is GREEN During Crushing: LED is flashing GREEN Crushing ERROR: LED is RED

Battery Level Display Indications:

Status	LED display	Details
1. Sleep	Sleep: All LEDs are off	N/A
2. Activated/ Ready to Operate	1. Battery level <25%: The most left LED is flashing RED.	If no operation or charging within 90 seconds, it will turn to SLEEP status. All LEDs are off.
	2. Battery level ≥25%: Display the detected percentage.	25% ~ 35%: The most left LED is GREEN. 36% ~ 55%: The left two LEDs are GREEN. 56% ~ 75%: The left three LEDs are GREEN. 76% ~ 100%: All four LEDs in GREEN. If no operation or charging within 90 seconds, it will turn to SLEEP status. All LEDs are off.
3. During Crushing	1. Battery level <25%: The most left LED is flashing in RED.	If on battery power, the crushing function is off. When plugged in, the crushing function is on. If no operation or charging within 90 seconds, it will turn to SLEEP status. All LEDs are off.
	2. Battery level ≥25%: Display the detected percentage	Same as #2.2 above.
4. Charging	1. When plugged in, all 4 battery LEDs are flashing one by one	N/A
	2. Auto check of battery level after five cycles of #4.1 are completed.	The corresponding LEDs are on in GREEN for two seconds for the detected battery level. For example, the left two LEDs are on in GREEN for two seconds if 50% level is detected.
	3. Repeat #4.1 and 4.2 until fully charged.	All four LEDs are on in GREEN.
	4. Fully charged.	If no operation or charging within 90 seconds, it will turn to SLEEP status. All LEDs are off.

How to clean:
Disconnect the power source. Wipe unit's surfaces with a dry or slightly wet cloth. Use dry paper or cloth for a second cleaning. Cupholder can be washed with water and wiped with a dry cloth. It is strongly advised to clean the unit after use to prevent contamination, powder getting inside the mechanical assembly, that may lead to malfunction.

Intended use:
eCrush™ is developed for the crushing of medication only. Do not use this device and its accessories for other purposes. In case the device or its accessories is used for other purposes, the warrenty will be voided. Always consult your physician first before crushing medication. Not all medication is allowed to be crushed.

General safety information:
Keep the eCrush™ away from children. Stop using the unit if any susceptible damage is observed. Consult your physician first before crushing of medication with eCrush™. Repairs should always be performed by qualified technicians or our official representatives. Always place the unit on a flat, steady surface. Do not open the lid during crushing. eCrush™ should be used in room temperature and in a clean environment. Use the eCrush™ in a well-lit room to avoid accidents. The crushing cups are disposable and can be used once.

Service and Maintenance:
For repairs and replacements of parts, the eCrush™ shall be returned to Rushwood B.V. or your regional distributor. After repair of replacement, always check the unit with a trial use. If you have any uncertainties, please do not use the unit and contact your distributor for assistence.

Warranty:
Standard 2-year limited warranty. Under regular use and conditions, the manufacturer warrants this product to be free from defects in quality and materials for two (2) years from the original invoice date. If the disposable crushing cups are re- used or cups of any other brand are used, the warrenty will be voided. Shipping and handling fees are to be paid for by the customer. The manufacturer agrees, at its option during the warranty period, to repair any defect in material or to furnish a rebuilt or refurbished product of equal value in exchange without charge. The customer will incur the fee for shipping, handling, packing, return postage and insurance. Such repair is subject to verification of the defect or malfunction and proof of purchase as confirmed by showing the model number on the original dated sales receipt.

Exclusions from warranty:
Misuse or the device has been used for other purposes
Defects and malfunction caused by unauthorized repair or modification. Operation guidelines/ User manual has not been followed. Damage and malfunction caused by accidents, misuse, negligence, careless handling, abnormal voltage supply, power interruptions or other events beyond companies control. Normal wear and tear. Not applicable to accessories and spare parts.

Technical specifications:

Power Supply	Technical Specifications
Input (Power)	AC/DC Adaptor, 100-240V ~, 50/60Hz
Battery	Li-ion 14.8V4400mAh
Crushing Cycle Time	22 +1 seconds
Approximate Crushing Cycles	100.000 times
Crushing cup material	Food grade Polypropylene
Crushing cup volume	30 ml
Max. Weight of pills per crush	≤ 4g
Dimensions (mm)	191.5 (L) x 147 (W) x 194 (H)
Weight (kg)	3,82

Range of conditions of use:

- Temperature range: 5 to 40 ºC • Altitude: less then 2000 meter
- Relative humidity: less then 80% for temperatures below 31 ºC, decrease linearly to 50% at 40 ºC.
- Pollution degree: 2.
- Do not use in a wet environment.

AC/DC adaptor:

- Only use the adaptor provided with the unit in the packaging.
- The manufacturer/ distibutor does not hold any legal responsibility incurred by any damage or accidents caused by other adaptors.
- Only purchase replacement AC/DC adaptor from our authorised distributors.
- Do not use the AC/DC adaptor if any damage is observed.
- Do not use the machine, Li-Ion battery, AC/DC adaptor or plug with wet hands.
- If the product is used in a manner not specified by Rushwood B.V., the protection provided by the machine may be impaired.
- Position the AC/DC adaptor in such a way that it is easy to disconnect from the socket outlet.

Rechargeable Li-Ion Battery:

- Only use the Li-Ion battery provided with the unit in the packaging.
- The manufacturer/ distibutor does not hold any legal responsibility incurred by any damage or accidents caused by other batteries.
- Only purchase replacement rechargeable Li-Ion battery from our authorised distributors.
- Do not use the Li-Ion battery if any damage is observed.
- Disconnect and remove the Li-Ion battery from the battery compartment if you only want to operate machine by the AC/DC Adaptor.
- The rechargeable Li-Ion battery MUST be disconnected during transport.
- Rechargeable Li-Ion Battery guarantees 500 charging cycles with optimized performance.
- Charging capacity will decrease after that.

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