

ONE STOP SHOWROOM FOR HOSPITAL & HEALTHCARE PRODUCTS.



Operation Instructions

Oscillating Saw

WSOS-1

USER MANUAL

A photograph of four healthcare professionals (two men and two women) in white scrubs and surgical caps, smiling warmly at the camera. They are standing in a brightly lit clinical or hospital environment.

 **WESTERN SURGICAL**

Western Surgical AN ISO 9001 : 2008 & ISO 13485 : 2015 AC 2012 CERTIFIED COMPANY

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Thank you for using our products. We are honored to offer service for your work of curing the sickness to save the patient. Before you use this medical electric saw, drilling, please be sure to read these operation instructions carefully.

● Summary

The BKJ-I medical electric saw, drilling produced by our company is based on the needs for bone sawing, drilling, milling, grinding, cutting-aspiration and other characteristics in surgery. It has the features of easy operation, stepless speed regulation, arbitrary choice of corotation and inversion and high temperature and high pressure disinfection. The medical electric saw, drilling consists of three parts: the host machine, the pulse rapid charger and the battery components.

1. The host machine: for the past many years, the domestic medical electric surgical drillings blindly adopt the method of modifying ordinary hand drillings, especially the use of long-bone pin and Kirschner wire. This kind of drilling does not fit for surgery. They can not be high temperature and high pressure disinfected. And there are sparks flicker while using. They not only fail to meet the disinfection requirement of the health sector, but also with frequent medical accidents. The medical electric saw, drilling designed by our company completely adopts enclosed structure, and it is the professional medical saw, drilling which can be high temperature and high pressure disinfected. Its precision machining and precision assembly combinations ensure the inner quality of complete appliance. Its excelsior fabrication technology makes it look novel and feel comfortable. And we use high quality DC motor which makes the power of the complete appliance tend to be perfect.

2. The pulse rapid charger: for the need of emergency and easy using, our chargers adopt pulsed fast charge technology, and it not only syncretizes foreign advanced charge technology, but also can full charge the battery within 70 minutes. And it can maintain the battery's reusing life.

3. The battery components: high-performance nickel-metal hydride battery has the advantages of safe, reliable, small and high capacity (two times of nickel-cadmium battery) you can continuously discharge the battery with 1 Amp electric current for 1 hour. Its operating life is long and it has no charge memory. It must be noted that before using you have to cool the battery which has just be charged, and also you have to cool the battery after using before you charge it.

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● Product name

1. Product name: BKJ- I
2. Category: a. by the internal power supply equipment
b. II-type equipment
c. Conventional equipment
d. Can not be used in the situation of inflammable and explosive and causticity gas.
3. Storage: the medical drilling should be kept at a temperature of -10~40°C; relative humidity: less than 90%, a well-ventilated room without causticity gas.



● The composition of medical electric saw, drilling

- | | | | |
|----------------------------|---|----------------------|---|
| 1. The host machine | 1 | 5. Isolation channel | 1 |
| 2. The pulse rapid charger | 1 | 6. Alternate blade | 1 |
| 3. The battery components | 1 | | |
| 4. The packing box | 1 | | |

● Type and Parameters

- | | |
|---|--------------|
| 1. Type | BKJ-I |
| 2. Supply voltage of charger | AC220V/50HZ |
| 3. Frequency | ≥16000 c.p.m |
| 4. Range of Oscillation | ≥4°C |
| 5. Temperature rise of the host machine | ≤30°C |
| 6. Noise | ≤92db |
| 7. Weight | 1700g |

● Warning mark and instructions

1. Warning mark: 
2. Instructions:  means the equipment is short-term operating product, it can not be fully used for a long time, and each of its running time is 10 minutes.
3. Warning: This product is strictly prohibited battery high temperature and high pressure disinfection. The battery can not be long time stayed in the machine. After the surgery, remove the battery, and put it into the packing box. For long-term non-use battery, you should discharge the battery and then charge it once a month to prevent the battery plate aging.

● The use of medical saw, drilling

1. Battery charging:
 - a. Connect the charger to the electric power source, the power indicator green light.

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- b. Put the small head down the battery, make the pin block on the battery aim the pin on the charger, then insert, at this time, the charger power-supply indicator light and the charger light shows green, the charging indicator light flashes, it indicates the start of charge, after about 60 minutes, the charging indicator light stops flashing, the charger indicator light turns green from yellow at the same time, it indicates the end of charge. The full charged battery which has just been charged can not be used immediately; you should wait until the battery energy completely converts into chemical energy for storage. After about half an hour, you can use it. The battery which has just been used also needs half an hour to recharge, as there is a membrane on the battery plate which needs time to disintegrate. The battery has no memory, so you needn't discharge it when you charge it.
2. Battery's loading and unloading in the surgery: revolve the knob clockwise in place, and then remove the hand handle cover, put on the isolation channel, hold the battery with sterile package of gauze, small head down the battery, make the socket aim the socket in the hand handle, then insert (See picture 2), get the isolation channel off, then cover the hand handle cover, then revolve the knob counter-clockwise in place. After the surgery, open the hand handle cover, hold the hand handle, and clap it lightly, until the battery falls on the table of mat soft objects. (Make sure the battery not fall on the floor so as not to break.)

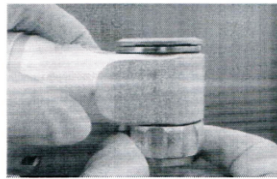


Picture 1

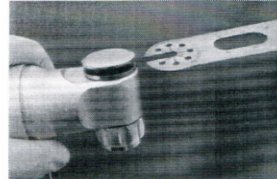


Picture 2

3. The saw blade's loading and unloading: (See Picture3, 4) Hold the host machine with the left hand, and the right hand clenches the spiral sets, counter-clockwise turns the tighten lid open, and insert the saw blade (Blade groove aims at the press lever shaft), after inserting it accurately, tighten the helical casing clockwise, that is successfully installed.



Picture 3



Picture 4

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● The disinfection and cleaning of medical saw, drilling

1. Disinfection:

- a. Put the host machine on the stainless steel mesh planes, and disinfect it with 135°C high temperature for 20 minutes.
- b. The charger and the battery do not need disinfection.

2. Cleaning:

- a. The surface of the host machine and the enclosure can be wiped by clean gauze dipped in sterile alcohol, and then keep it to prevent the blood and other materials left on the drilling and influences next use.
- b. The charger and the battery also can be cleaned and kept by this method.

● Attention and After service

1. This medical saw, drilling only limited to be used by doctors or professionals who are equivalent to doctors. Before using, please be sure to read these instructions carefully.
2. The power cord of the charger should not be eroded by oil or medical menstruum, or be damaged by machine. Once found, it should be changed immediately.
3. This medical saw, drilling should not be unloaded by yourself, if it is confirmed by our company that the products are broken because of unloading by yourself, or because of misuse, the cost of the repairs are paid by yourself.
4. The products which need repair can be delivered back to the company to be repaired for free in the warranty. Delivering the products which need repair should have adequate package.
5. After one year of warranty, (from the date of the products were sold) our company also carries out the maintenance of the products, lifetime maintenance.

Caution: The battery pack is strictly prohibited high temperature and high pressure disinfection!

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7.3 WARRANTY CERTIFICATE

western surgical product is warranted to be free from electrical and mechanical defects in material and workmanship, under normal use. The western surgical product must not have been moved from the site of original installation. A new or remanufactured part to replace the defective part will be provided without charge for the part itself, through an authorized western surgical service dealer. The replacement part assumes the unused portion of the warranty.

WESTERN SURGICAL WILL NOT BE RESPONSIBLE FOR:

1. Damage or repairs required as a consequence of faulty installation or application by others.
2. Damage or repairs needed as a consequence of any misapplication, negligent handling, improper servicing, unauthorized alteration, or improper operations.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of western surgical
5. Parts not supplied or designated by western surgical.

Date of Installation	Installed By
Model No.	Serial No.
Warranty Period	
Name of Doctor & Address :	

Customer Sign. With Stamps

**Marketed By: Western Surgical
Sign. With Stamps**

No Claim Warranty :

- 1) Any Defect Throughtout Power Supply
- 2) Any Physical Damage

3) Under Warranty Standby Unit Not Provide

4) Under Warranty When Company Send Parts or Machine we Imidiat send to Buyer.

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OUR OTHER PRODUCTS RANGE



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