

Registration Certificate No: 20160013 License No: 20162100284

Battery operated medical drill user manual

Product description



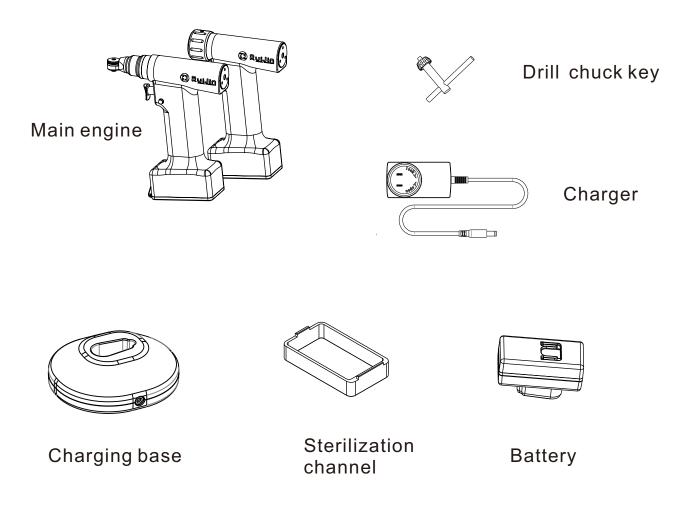
The revision date: 2020/02

Name: Medical Electric Saw Drill

Model: RJ-MP, RJ-PS

2. The main components and accessories

Includes: Host, charger, battery, battery case, saw blade and drill bit. The host is completely enclosed. Charger is not used as medical electronics.



3. Application

Our products are used for trauma, spine, joint, chest and cranial surgery.

4. Performance indicators and parameters

1. Host part

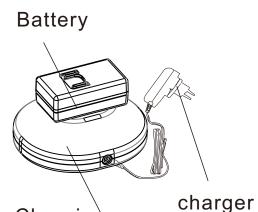
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parameter Category		No-load	frequency	Maximum	5 Minutes	Noise	
		No-load speed frequency		Torque	Temperat	110100	
		rpm	rpm Hz		°C	dB	
	1:1 Bone drill adapter	0-1100		≥3	≪25	≤75	
RJ-MP	Saw adapter		0-16000		≤25	≤75	
	Oscillating aw adapter	0-1100		≥3	≤25	≤75	
RJ-PS	Saw		0-16000		≤25	≤75	

2. Battery charger

	Input voltage	$100V \sim 240V$
	Input power	$50 \text{Hz}{\sim}60 \text{Hz}$
Charger	Input current	0.5A (max)
	Output voltage	7.2V \sim 14.4V
	Output current	2.0A (max)
	Voltage	7.4V
Standard	Battery capacity	16.28Wh
battery	Charging time	$\approx 2.5 \mathrm{H}$
	Discharge time/1A	≥10min

5. Installation and use instruction

1. Battery charging



Charging base

Plug the DC interface of the charger end into the DC port of the charging seat and plug the battery into the charging seat to charge. When the charger is connected to the power source, the red light flashes detection and lights out when there is no load. When the battery is connected, the red light indicates the charging state, and light off indicates the full state, and the red light flashing indicates the error.

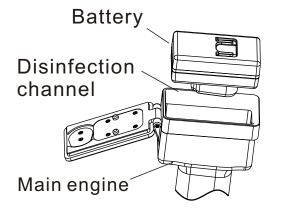
2. The opening and closing of the bottom cover



When you open the bottom cover, rotate the button to theunlocking position, then pull up the bottom cover.

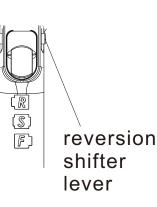
When you close the bottom cover, and put thecover into the handpiece, rotate the button to thelocking position to ensure the cover is closed.

3. Battery installation



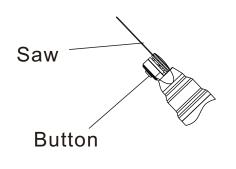
Battery can not be connected with the host directly to prevent pollution. When installing the battery, we have to put the disinfection channel on the handle firstly, then battery could be inserted to the handle by disinfection channel and pressed into place.

4. Mode adjustment



When a forward turn is required, the reversing lever is pushed to the corresponding F position. When you need to reverse, use the same method to rotate the tag to the R tag. Push the lever to S position when installing or disassembling the joint and when not in use.

5. Saw blade installation



Press the button first, then Put the saw blade into the saw blade interface,Quasi-position, the blade hole falls into the blade connection In the cylinder of the mouth, and then release the button,The blade is locked. ★The above picture is only for illustration purpose ★ Attention: This product is a professional medical device and the user must be a medical technician with appropriate skills or with appropriate training.

This product must be disinfected before use and should be used in accordance with instructions and test firstly before operation. if the host or component abnormalities, please stop using immediately and contact with the manufacturer or distributor to send it back to the factory for repair.

6. Product labels use symbols, graphics, abbreviations, etc

Icons	description	lcons	description	Icons	description
	short time working		lock	F	Forward
	II type equipment		unlock	R	Reverse
×	B type equipment			S	Stop

7、Attention

- 1.Chenk the drill bits to ensure they are running straight before procedure.If there is any movement away from the venter of the drill, the bits should be replaced.Check the drill bits are sharp, if not they should be burnished.The drilling should be fixed firmly and hand can not shake according to conventional.
- 2. The drill bits should be fixed tightly and securely. A special chuck key can help to lock the drill bits into place to avoid accidence happen. Drill saw and accessories should be placed in dry condition to aviod getting rusty.
- 3. The battery can not be sterilized by high temperature, high pressure and can not be left in the handpiece of extended periods of time. If the handpiece loses power during the operation and stops running, replace the battery immediately.
- 4. If there is abnormal noises during use, stop the use of the product and contact the manufacturer for maintainenance.
- 5. This product is a meddical instrument, and must only be operated by a competent person with a relvant technical experience and training.

Use risk analysis and preventive measures:

1. The cutting tool is not installed in place: strictly follow the steps of the operation manual.2. Battery failure: check the battery regularly.

3. Uncharged battery: charge the battery before surgery.

4. Insufficient battery: check whether the battery is sufficient before surgery.

8、Disinfection and sterilization

P.S battery can not be sterilized.

This product must be cleaned after operations and have to be sterilized before using.

Cleaning method: manual cleaning

Disinfection method: rinse--washing--rinse--dry

Disinfection method:

This medical power tool can be sterilized in the following manner.

Disinfection method	temperature	time	Dry time
Flash no cloth	129℃~134℃	10min	8min
Pre-vacuum wrap	129℃~134℃	4min	8min
100% ethylene oxide cloth	49°C∼57° C	150min	ventilating 8h
270F steam cloth bag	129°C∼134° C	35min	8min
270F steam double covered cloth	121℃~123 ℃	50min	8min

Drying method;

Use the drying equipment for drying. The residual moisture inside the bureaucratic cavity can be dried with a pressurized air gun. This product should not be dried by natural drying method.

Sterilization method:

Equipment type	Item category	set temperature	shortest sterilization time	Pressure reference range
Under the exhaust	Implants and instruments	121 ℃	20min	102.8kpa \sim 122.9kpa
Pre-vacuum	Implants and	132 ℃	4min	184.4kpa \sim 210.7kpa
	instruments	134 ℃	4000	201.7kpa \sim 229.3kpa

9、After sales

P.s the device shall not be demolished by non-professi -onals. If any problem, please contact with us for after sales service.

10、 Production date

Production date and batch number could be found at the product certification label

11、Transportation

Transport and	Ambient temperature range	-10°C ~ +40°C
storage	Relative humidity range	≤90%
conditions	Atmospheric pressure range	500hPa~1060hPa
	Ambient temperature range	5°C ~ 40°C
Equipment	Relative humidity range	≤70%
Equipment operating	Atmospheric pressure range	860hPa~1060hPa
conditions	Charger power supply	100-240V ; 50-60Hz
	The host power supply	F 76 17 00\/
	(DC)	5.76~17.28V