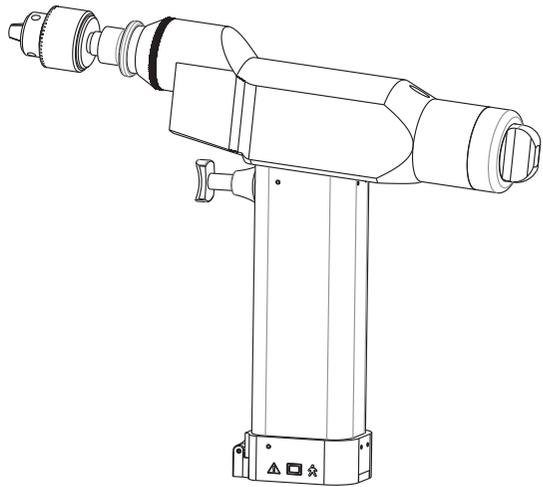
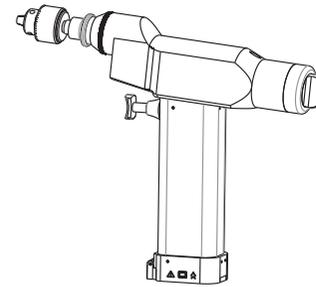


Battery operated medical drill user manual



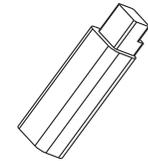
Overview



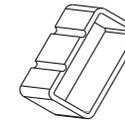
handpiece × 1
drill chuck × 1



charger × 1



battery × 2



sterilizing channel × 2



key × 1

Technical specification

Performance Parameter

non-load speed	0-1000r/min
non-load noise	≤65dB (A)
axial run out	≤0.1mm
Torque	1.5-8.5Nm
drill chuck clamping range	0.8-8.1mm
chuck clamping force	≥100N

Working Parameter

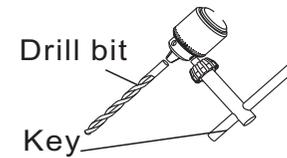
Name	Description	
handpiece	work voltage	13.2V
	output power	130W
	unit rise of temperature	≤25° C
charge	input voltage	100-240V
	output voltage	0-14V
	input power	23W
battery	voltage	13.2V
	charging time	≈2 hours

Identification description

Icons	description	Icons	description	Icons	description
	short time working		lock	L	turn left
	II type equipment		unlock	R	turn right
	B type equipment	Open	Open	OFF	turn off

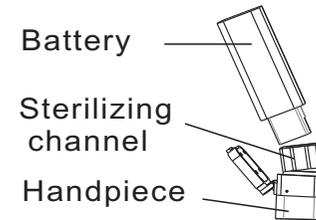
Operating instruction

1、Drill bit installation diagram



Twist the key, clockwise to clamp drill chuck and counter clockwise to loosen drill chuck

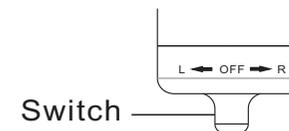
2、Battery inserting diagram



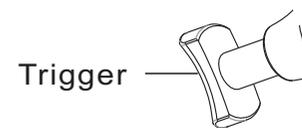
a. Battery can not touch handpiece directly.
b. Remove battery cover, holding the battery with sterilizing channel, insert the battery.

3、Controlling the direction of rotation diagram

a. The switch is in OFF position normally.
b. Turning the switch to the L position sets the direction of rotation to clockwise, R sets the direction of rotation to counter-clockwise.



4、Trigger operation diagram



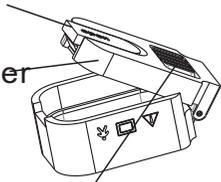
The rotation speed of drill saw can be controlled by how hard the trigger is squeezed. Squeeze the trigger fully for the fastest speed and squeeze it lightly for the slowest.

5. Battery cover diagram

Cover switch

Cover

Lock switch



- a. Turn off the lock switch by pushing OPEN when inserting battery.
- b. Close battery cover after inserting battery and then lock the switch.

Attention: when the bottom lid is open, please don't lock the safety switch

6. Battery charging diagram

Battery

Pin

Indicator light

Charge



- a. During charging, please ensure to put the pin at the right position.
- b. If the charger standby both two lights are green. If the battery is in charger, one light is red and the other is green. Once the battery is full charged, the red light will turn to be green.

Test operation

After inserting battery, turn the switch to the L position and press the trigger the drill rotates counter-clockwise. Letting go, turn the switch to R, drill rotates clockwise, drill can be used normally in this situation, or else, please contact with after-sales to repair.

Risks analysis

1. Cutting tools not be installed properly: operation instruction manual.
2. Battery invalid: check battery at regular intervals.
3. Battery not charged: charged battery before use.
4. Battery not fully charged: check if the battery is fully charged before use.

Attention

1. Check the drill bits to ensure they are running straight before procedure. If there is any movement away from the center 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 accidents happen. Drill saw and accessories should be placed in dry condition to avoid 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 maintenance.
5. This product is a medical instrument, and must only be operated by a competent person with a relevant technical experience and training.

After-sales care and notes

1. The device is tested rigorously according to corporate standards before delivery. If any quality problem, we promise for implementation of Three Guarantees.
2. Please check the complete set of the device carefully after receiving it.
3. The device shall not be demolished by non-professionals. If any problem, please contact with after sales service.

Disinfection and Transportation

Disinfection

disinfection methods	temperature	time	dry	remark
low temperature plasma sterilization	35° C-45° C	35mins		recommended
high temperature steam sterilization	121° C-123° C	50mins	8mins	

Transportation

Transportation storage conditions	Ambient temperature range	-10° C~+40° C
	Relative humidity range	≤90%
	Atmospheric pressure range	500hPa~1060hPa
operating conditions	Ambient temperature range	5° C~40° C
	Relative humidity range	≤70%
	Atmospheric pressure range	860hPa~1060hPa
	Charger power	100~240V; 50Hz±1Hz
	Host power	13.2V±10%

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