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# 1-Introduction

## 1.1 Overview

First of all, thank you for choosing our Micro-Drill.

Before installing and using the product for the first time, please carefully read all the data attached to the product, which will help you to better use the product.

We are committed to continuously improve product functions and service quality, and reserve the right to change the product described in this manual and the contents of this manual without prior notice.

Welcome to inquiry by phone or email or visiting our website ([www.rwdmall.com](http://www.rwdmall.com)) for the latest product information. If you find any inconsistency between actual situation and this manual or have any question or suggestion during the use of the product, welcome to contact us.

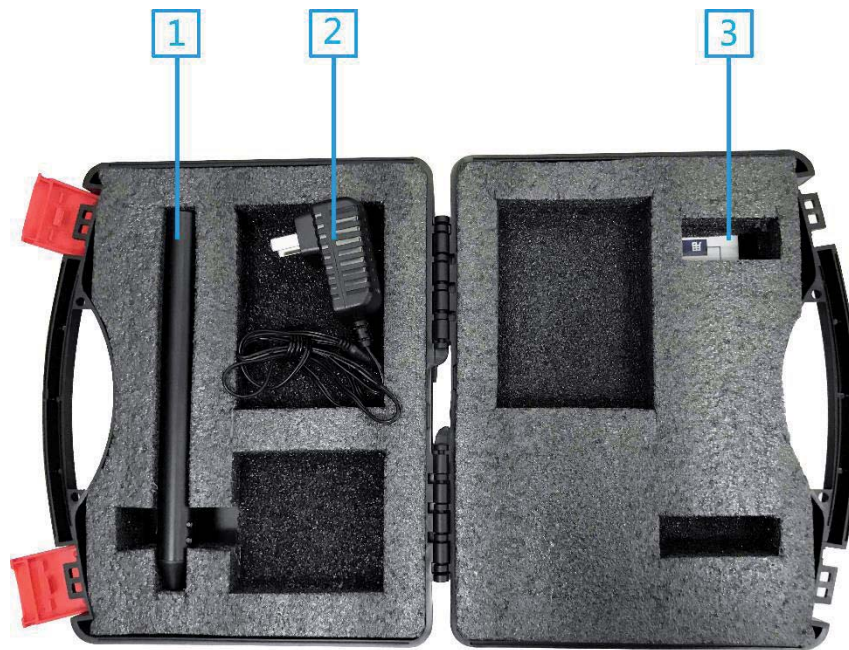


**This device is only used for scientific research of animals and is not allowed to be used for human beings!**



**The device should be operated and managed by trained professionals!**

## 1.2 Product and internal packaging display



① Micro-Drill      ② Adapter      ③ User Manual

## 2-Operating instructions

### 2.1 Charging the battery

- Your Micro-Drill should only be charged by using the supplied charger. The use of any other charger may damage the battery and causing the invalidation of product warranty.
- When charging the Micro-Drill, please plug the charger into the power outlet first, and the charger indicator turns green, then plug the other end of the charger into the charging port at the bottom of the Micro-Drill. The indicator turns red and the charger start charging. After the charging is completed, the charger indicator changes from red to green.
- If the charger indicator does not turn red when charging, the battery may be faulty. Please contact RWD for repair.
- It is not necessary to wait until the battery is fully discharged to charge the drill, this will not harm the battery and charging the drill before long periods of work will help avoid running out of power.
- Charging may take up to 3 hours for a fully discharged battery. Less time is needed to fully charge the battery if it was not completely discharged.
- Under normal operating conditions with intermittent use, the drill will run for approximately 45 minutes if it is operated continuously.
- The battery should last up to 1000 charging cycles.
- While charging, the drill may become warm to the touch. This is normal and will not damage the unit.

- Place the Micro-Drill on a stable countertop while charging, and take care to prevent it from falling.

**CAUTION:** Do not leave the charger plugged into the drill when not charging.

**WARNING:** The battery in this drill may explode if exposed to fire or extreme heat. Discharge the Micro-Drill battery completely and recycle it along with other battery-containing electronic products.

## 2.2 Installation and replacement of burrs

- When installing the burrs, please use a tool such as pliers to clamp the shaft of the burrs and push it into the mounting hole at the top of the drill. When the burrs is inserted correctly, the tip of the burrs should protrude approximately 15-20 mm from the drill.
- When replacing the burrs, please use a tool such as pliers to clamp the shaft of the burrs, carefully pull out the burrs, after removing the old burrs, follow the installation steps to install the new burrs.

## 2.3 Operating the drill

- Hold the drill between the thumb and the forefinger. Allow the drill to rest on top of the hand. Depress the start button near the tip to start the drill.
- Avoid applying excessive force when drilling. Dull or damaged burrs should be replaced.

# 3-Equipment environmental requirements

Prepare the equipment operating environment according to the conditions listed below to ensure the operability and safety of the syringe pump.

	Detailed description
Operating environment	Operating Temperature: 5°C~40°C
	Operating Humidity: 15%~95% ,Non-condensing
Storage and transportation environment	Storage Temperature:-20°C~60°C
	Storage Humidity: 10%~95%, Non-condensing

# 4-Storage, cleaning and maintenance

- Always store the drill in the supplied case.

- Only clean the drill with a moist alcohol wipe.

**WARNING:** Do not attempt to autoclave your drill. Do not immerse in water.

**WARNING:** The drill has no user-serviceable parts. All repairs shall be performed by RWD only.

Any attempt to open the drill will void the warranty and could cause the battery to short circuit, which may result in overheating or explosion.

## 5-Warranty and maintenance

The warranty of this equipment starts from the date of leaving the factory. During the warranty period, the equipment cannot be used normally due to problems such as materials and process defects. RWD undertakes after-sales service such as equipment maintenance and parts replacement.

Any damage caused by improper use or over-range use is not covered by the warranty. If repair or replacement of parts is required, the cost will be borne by the user.

If the reworked equipment was found to have been unauthorised disassembly, RWD will not provide after-sales service such as warranty, free maintenance and parts replacement.

The warranty statement (including its restrictions) is exclusively issued by RWD and covers all other warranties.

## 6-Specifications

Length (Without Burrs)	200mm
Drill diameter	19.5mm
Burrs shaft diameter	2.33mm
Charge input	100~240 V
No Load Speed	12,000 rpm
Stall Torque	120g-cm
Battery	7.4V 750mAh Lithium-ion rechargeable battery pack

## 7-Product List

Micro-Drill× 1, adapter × 1, user manual× 1.

Optional burrs available with the device as follows:

0.6mm(1 pack of 5) (optional)
0.8mm(1 pack of 5) (optional)
1.0mm(1 pack of 5) (optional)

1.2mm(1 pack of 5) (optional)
1.6mm(1 pack of 5) (optional)
Holder assembly (matching RWD Stereotaxic Instruments) (optional)