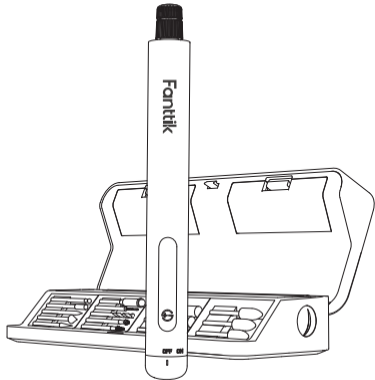


Fanttik

F2 Master Kit Rotary Tools

User Manual

Please read this instruction manual carefully before use and keep it for future reference.

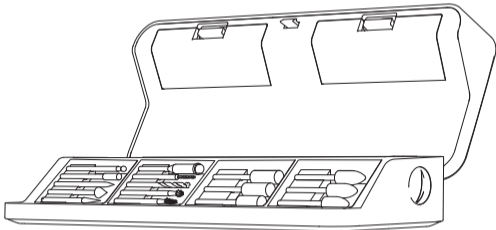


Quick Operation Guide

Open the storage case

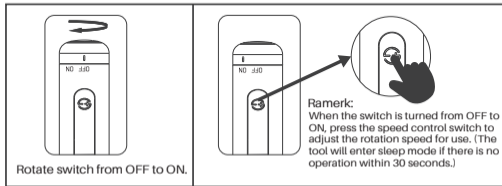


Press the unlock button located in the middle of the case lid, then open the case.

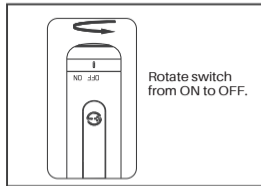


Remark: Always hold the tool away from your face. Accessories can be damaged during handling, and can fly apart as they come up to speed. This is not common, but it does happen. Please wear goggles to better protect yourself.

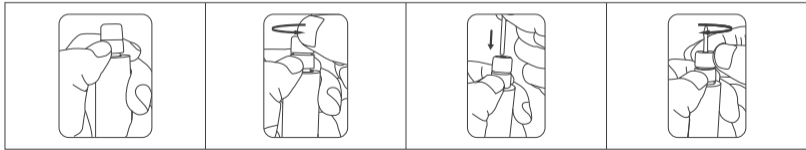
Rotate safety switch energized and press the speed control button to turn on the tool and speed control.



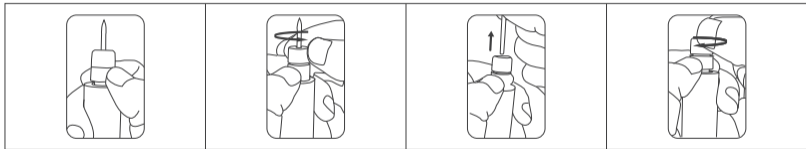
Rotate switch to turn off the tool.



Loosen the collet nut and clamping accessories.



Loosen the collet nut and remove accessories.



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Safety Warnings

WARNINGS

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAFETY RULES FOR ROTARY TOOLS

- Safety warnings common for grinding, sanding, wire brushing, polishing, carving or abrasive cutting-off operations:
This power tool is intended to function as a grinder, sander, wire brush, polisher, carving or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- The RATED SPEED of the accessories must be at least equal to the operating speed setting marked on the power tool. Accessories running faster than their RATED SPEED can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately controlled.

- The arbor size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.
- Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator

an electric shock.

- Always hold the tool firmly in your hand(s) during the start-up. The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use. Clamping a small workpiece allows you to use your hand(s) to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened. Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.
- Use only in well-ventilated area. Working in a safe environment reduces risk of injury.
- Allow for sufficient space, at least 6", between your hand and the spinning bit. Do not reach in the area of the spinning bit. The proximity of the spinning bit to your hand may not always be obvious.
- Do not touch the bit or collet after use. After use the bit and collet are too hot to be touched by bare hands.
- Do not alter or misuse tool. Any alteration or modification is a misuse and may result in serious personal injury.

This product is not intended for use as a dental drill, in human or veterinary medical applications. Serious injury may result.

ADDITIONAL SAFETY WARNINGS

- Keep handles dry, clean and free from oil and grease. Slippery hands cannot safely control the power tool.
- Develop a periodic maintenance schedule for your tool. When cleaning a tool be careful not to disassemble any portion of the tool since internal wires may be misplaced or pinched or safety guard return springs may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts

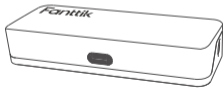
WARNINGS

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products,
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Packing list



Storage case x 1pc



Rotary tool x 1pc

Accessories x 28pcs

Diamond wheel point x 5pcs

Drill bit x 2pcs

Carving bit x 2pcs

Wool polishing x 2pcs

Rubber polishing x 2pcs

Aluminum oxide grinding stone x 2pcs

Sanding discs x 10pcs

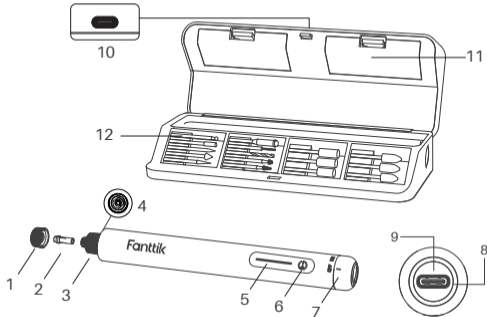
Mandrel for sanding disc x 1pc

Mandrel wrench x 1pc

Collet x 1 pc

Product Overview

01. Collet nut
02. Collet
03. Shaft lock nut
04. LED light
05. Speed indicator light bar
06. Speed control area
07. ON/OFF switch
08. Battery indicator
09. Type-C charging port
10. Storage case unlock button
11. Storage space
12. Accessories



Charging the Tool

Be sure to charge tool prior to initial use.

Insert cable (purchased separately) into type-c port(9) of rotary tool .charge tool using 5V/≤4A power adapter. Plug power adapter into standard power outlet.

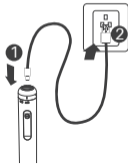
Charging indicator

The battery charge indicator (8) indicates the charging progress. During the charging process, the indicator light (8) will flashing . The battery is fully charged when the indicator light turns ON . Charge time is approximately 60 minutes.It is normal for the handle of the tool to get warm during charging.

Note: It is recommended to charge the tool every 2 months during storage. Prolonged storage may cause the battery to have a low charge level. When the battery level falls below the normal charging threshold, the charger will supply a low current to the tool, and the charging indicator (8) will not respond. Once the battery level is restored to the normal charging threshold, the charging indicator (8) will initially flash slowly for 2 seconds before starting to flash normally.

Power indicator

This tool is equipped with a power indicator (8) that tells you how much charge your battery has.When the power indicator light (8) is red,the battery is almost empty. When the red light flashes, the machine will stop shortly



Battery indicator operation

1-Turn on the ON/OFF switch(7), the battery indicator light will light up for 3 seconds.When the power indicator (8)light is white, the battery level is >30%; when the power indicator (8) light is red, the battery level is <30%.

2-In normal operation, when the battery is exhausted, the power indicator (8) will flash.

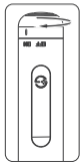
operate

Turn on the tool and Speed control

1:with your finger rotate the switch(7) from OFF to on.At this time, The machine is awakened (the working LED(4) lights up;the speed indicator light bar(5) ON/OFF for 3 cycles;the power indicator(8) light up for 3 seconds;)

2:press the Speed control area(6) and the tool will start working at third gear, The speed switch is a cycle switch. If you need to adjust to another speed, please continue to press the Speed control area(6) until you find the speed you want.

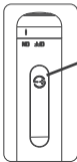
REMARK:If the tool is not activated within 30 seconds, it will go to sleep again. To restart the tool, you need to turn on the ON/OFF switch(7) again;



1:rotate the switch(7) from OFF to ON



Waiting time should not exceed
30 seconds



2:press the speed control area(6)

Gear	Speed range	speed indicator light bar(5) state
1	12,000RPM	20%
2	15,000RPM	40%
3	18,000RPM	60%
4	20,000RPM	80%
5	25,000RPM	100%

Turn OFF the tool

with your finger rotate the switch(7) from ON to OFF, The tool will stop working & the working light turns off after 10 seconds.



rotate the switch(7)
from ON to OFF

Clamping system

The clamping system consists of Collet nut, Collet, shaft and Shaft Lock. this tool is only suitable for 3/32" collet. The operation is as below :

Add accessories to the tool

- 1: hold on the Shaft Lock(3) with your hand to Lock the drive shaft;
- 2: lock the drive shaft and Turn the collet nut(1) counterclockwise to loosen the collet (2);
- 3: Put the accessory through the collet nut(1) and into the collet 2, by inserting the accessories into the collet as far as possible to minimize

runout and unbalance;

4:lock the drive shaft and Turn the collet nut(1) Clockwise to tighten the collet (2) securely;

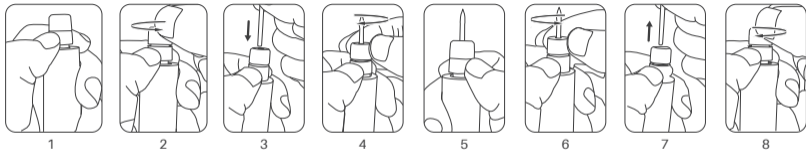
Remove the accessories from the tool

5:hold on the Shaft Lock(3) with your hand to Lock the drive shaft;

6:lock the drive shaft and Turn the collet nut(1) counterclockwise to loosen the collet (2);

7:remove the accessories form the collet(2)

8:lock the drive shaft and Turn the collet nut(1) Clockwise to tighten the collet (2) securely;





How To Choose Accessories





Remark: Always hold the tool away from your face. Accessories can be damaged during handling, and can fly apart as they come up to speed. This is not common, but it does happen. Please wear goggles to better protect yourself.

picture	Parts Name	use	Applicable Materials	Recommended speed (X1000)	remark
	Diamond Wheel Point	Ideal for fine detail work on wood, jade, ceramic, glass, hardened steel and other hard materials	soft wood	15-25	
			hard wood	15-25	
			plastic	-	
			steel	-	
			Aluminum, Brass	-	
			shell /stone	15-25	
			Ceramic	15-25	
			Glass	15-25	
	Drill Bit	Ideal for drilling, It Use on wood, plastics and soft metals;	soft wood	25	
			hard wood	15-25	
			Plastics	12-18	

picture	Parts Name	use	Applicable Materials	Recommended speed (X1000)	remark
	Carving Bit	Ideal for shaping, hollowing, grooving, slotting, inlaying and making tapered holes. For use on soft metals, plastics, and woods, especially on curved surfaces	soft wood	25	
			hard wood	25	
			Plastics	18-25	
			Aluminum,Brass	12-18	
	wool polishing Accessories	Ideal for general polishing of most ferrous metals, stones, glass and ceramics.	soft wood	-	Felt polishing accessories may be used with or without polishing compound
			hard wood	-	
			plastics	-	
			steel	12-18	
			Aluminum,Brass	12-18	
			shell /stone	12-18	
			Ceramic	12-18	
			Glass	12-18	

picture	Parts Name	use	Applicable Materials	Recommended speed (X1000)	remark
	Rubber Polishing Accessories	Rubber polishing points are impregnated with abrasive and used to remove rough areas, small burrs and scratch marks	steel	15-25	
			Aluminum,Brass	15-25	
			shell /stone	15-25	
			Ceramic	15-25	
			Glass	15-25	
	Aluminum Oxide Grinding Stone	Ideal for sharpening, deburring and general purpose grinding on most materials including stainless steel.Use on metals,castings, welded joints, rivets and rust	soft wood	25	
			hard wood	25	
			steel	18-25	
			Aluminum,Brass	12-25	
			shell /stone	12-18	
			Ceramic	25	

picture	Parts Name	use	Applicable Materials	Recommended speed (X1000)	remark
	Sanding Discs	For sanding the wood and plastics ,Also great for removing rust;	soft wood	12-25	 This is a mandrel with a small screw at its tip, and is used with blade cutting wheels. 3/32" shank.
			hard wood	12-25	
			plastics	12-25	
			Aluminum, brass	12-25	

Using the Rotary Tool

The Rotary Tool has a small, powerful electric motor, is comfortable in the hand, and is made to accept a large variety of accessories including drill bits, polishers, engraving cutters, cutting Blade. As you become familiar with the range of accessories and their uses, you will learn just how versatile the Rotary Tool is. You'll see dozens of uses you hadn't thought of before.

The real secret of the Rotary Tool is its speed. To understand the advantages of its high speed, you have to know that the standard portable electric drill runs at speeds up to 1500 revolutions per minute. The Rotary Tool operates at speeds up to 25,000 revolutions per minute. The typical electric drill is a low speed, high torque tool; the Rotary Tool is just the opposite - a high-speed, low torque tool. The major difference to the user is that in the high speed tools, the speed combined with the accessory mounted in the collet does the work. You don't apply pressure to the tool, but simply hold and guide it. In the low speed tools, you not only guide the tool, but also apply pressure to it, as you do, for example, when drilling a hole.

It is this high speed, along with its compact size and wide variety of special accessories, that makes the Rotary Tool different from other tools. The speed enables it to do jobs low speed tools cannot do, such as cutting hardened steel, engraving glass, etc.

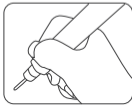
Getting the most out of your Rotary Tool is a matter of learning how to let this speed work for you. To learn about more uses and the versatility of accessories and attachments refer to this Owner's Manual

The first step in learning to use the Rotary Tool is to get the “feel” of it. Hold it in your hand and feel its weight and balance. Feel the taper of the housing.

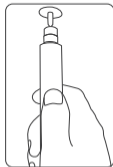


Always hold the tool away from your face. Accessories can be damaged during handling, and can fly apart as they come up to speed. This is not common, but it does happen.

For best control in close work, grip the Rotary Tool like Writing between your thumb and forefinger.



Hold the tool from the rear can be used for more aggressive operations such as grinding a flat surface or using cutoff blade . Practice on scrap materials first to see how the Rotary Tool's high speed action performs. Keep in mind that the work is done by the speed of the tool and by the accessory in the collet. You should not lean on or push the tool during use.



Instead, lower the spinning accessory lightly to the work and allow it to touch the point at which you want cutting (or sanding or etching, etc.) to begin. Concentrate on guiding the tool over the work using very little pressure from your hand. Allow the accessory to do the work.

Usually, it is best to make a series of passes with the tool rather than attempt to do all the work in one pass. To make a cut, for example, pass the tool back and forth over the work, much as you would a small paint brush. Cut a little material on each pass until you reach the desired depth. For most work, the gentle touch is best. With it, you have the best control, are less likely to make errors, and will get the most efficient work out of the accessory.

Disposal



Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste.
- Contact your local waste disposal authority for information on the correct way to dispose of power tools Li-Ion.

Specifications

Models	F2 Master Kit
Speed	12,000/15,000/18,000/20,000/25,000RPM±10%
Collet capacities	3/32" 2.3mm
Battery	4.0V Max/700mA/2.8Wh
Charge port	TYPE-C
Charger specifications	5V/1A

Troubleshooting

Problem	Cause	Solution
Failure to power on	Battery exhausted	Charge the tool
Machine stops rotating during operation	The machine runs under continuous heavy load, causing over-temperature protection or undervoltage protection activated	Let it cool down, or charge the machine
Failure to install accessories	Accessory size does not match the chuck	Use the included accessories or use accessories with a shaft diameter of 2.3 mm
Failure to charge	Charging cable not plugged in properly	Replug the charging cable

Warranty

- This product is covered by a 12-month limited warranty for manufacturing defects.

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