


Rotamax 25





**INSTRUCTION
MANUAL**

Safety Precautions

PERSONAL PROTECTION:


 Safety glasses and/or a face shield should be worn at all times to protect the operator from flying debris.

 A dust mask or respirator should be worn to prevent the inhalation of airborne particles. Use of a dust collection system is recommended.

 Do not wear loose fitting clothing or jewelry that may be caught in moving parts. Long hair should be contained. Use caution when wearing gloves during operation.

Stay alert, watch what you are doing at all times. Do not operate while tired or under the influence of drugs, alcohol, or medication. Keep your work surface clear of obstructions.

ELECTRICAL SAFETY:

 Always unplug your Rotamax before servicing. This includes replacing motor brushes, greasing the shaft or changing the handpiece. Never carry the motor by the cord or pull on it to unplug from power outlet. Repair or replace worn/frayed cord immediately. Do not use your Rotamax during “brown-outs” or other power fluctuations until power is fully restored. This unit is equipped with a 3-prong grounded

plug and cord and should only be used in a properly grounded power outlet (see illustration below). Do not alter the plug for any reason as electrocution could result. Use only 3-prong grounded extension cords. Do not use with 2-prong adapters.



Do not operate your Rotamax in damp or wet locations or in explosive atmospheres such as in the presence of flammable liquids, gasses or dust.

MOTOR SAFETY:

Your Rotamax should be secured to a suitable flexshaft motor hanger or other surface. Care should be taken not to restrict airflow into the motor housing. Do not place motor in an enclosed space as this may cause overheating.



During normal use, the motor housing may develop high temperatures (up to 100° F). Do not handle the motor housing when hot.

Never operate the motor without the outer sheath installed.

USING ROTARY TOOLS:

Never use accessories at speeds above the maximum speed rating. *Speed ratings can be obtained from*

the manufacturer. All accessories should be inserted as far as possible into the handpiece and tightened securely with the included chuck key.



All accessories should be inspected for damage, such as cracks, before use.

Discontinue use of any tool that may be damaged or out of balance.

Avoid applying unnecessary force during operation. Doing so may cause damage to the tool and possible breakage. Allow the tool do the work.

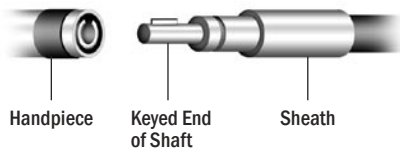
Assembly Instructions



MAKE SURE THE UNIT IS UNPLUGGED BEFORE CONTINUING.

ATTACH HANDPIECE:

Align the keyed end of the flexible shaft with the slot inside the back end of the handpiece (see illustration below). Push handpiece onto sheath until it clicks into place.



Handpiece

Keyed End of Shaft

Sheath

CONNECT FOOT CONTROL:

Insert the 3-prong plug of the motor into the 3-prong socket of the foot control (the shorter of the two cords connected to the foot control).

PLUG-IN UNIT:

Switch the motor to the “off” position (see illustration). Insert the 3-prong plug of the foot control into a 3-prong wall outlet. While holding the handpiece, switch the motor to the “on” position. **THIS WILL NOT START THE MOTOR.**



INSTALLING ACCESSORIES:

The handpiece included with your Rotamax unit is a No. 30 style handpiece. To install a tool in the handpiece, open the jaws of the Jacob’s type chuck enough to insert the tool. This is done with the included chuck key. With the tool inserted as far as possible, the chuck is then tightened with the chuck key. If the tool is off-center, loosen the chuck and make necessary adjustments. Be sure to remove the chuck key before starting the motor.

Operation



READ ALL SAFETY PRECAUTIONS BEFORE OPERATING THIS UNIT.

FAILURE TO DO SO MAY RESULT IN DAMAGE TO THE UNIT AND/OR SERIOUS PERSONAL INJURY.

CONTROLLING SPEED:

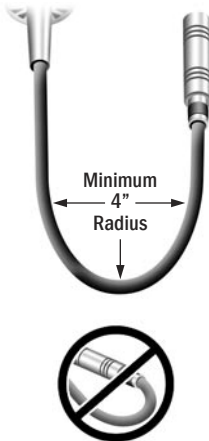
Your Rotamax 25 is equipped with a variable speed foot control that allows precise adjustment of the speed of the motor. The maximum speed of the unit is 20,000 RPM. **ACCESSORIES RATED FOR LESS**

THAN 20,000 RPM SHOULD NOT BE USED WITH THIS UNIT.

Do not apply excessive force to the tool while in operation. Use the correct size and type of accessory and corresponding speed for the job. Larger tools are generally used at slower speeds for heavy/rough work such as grinding. Smaller tools are used at faster speeds for fine/detail work.

FLEXIBILITY OF THE SHAFT:

The shaft/sheath assembly of this unit is designed to bend, allowing for flexibility. To get the most life out of the shaft and sheath, do not bend at tight angles. Doing so causes excessive wear, especially at the ends of the assembly where it attaches to the motor and handpiece. The general rule is to maintain a 4" or larger radius at all times (see illustration above). This will prolong the life of the shaft and sheath. Note that replacement will be necessary once or twice during the life of the unit.



Maintenance



ROUTINE MAINTENANCE IS REQUIRED FOR PROPER OPERATION AND TO PREVENT EXCESSIVE WEAR. ALWAYS DISCONNECT POWER BEFORE SERVICING.

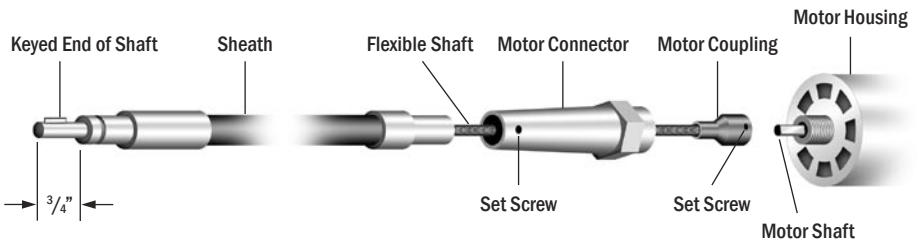
CLEANING MOTOR:

Dust and metal filings can build up inside the motor housing. If not cleaned regularly, this dust can cause an electrical short within the motor. Regular cleaning will prevent dust build up.

Remove the motor brushes by unscrewing the brush caps (see "Replacing Motor Brushes" on the next page). Next, blow compressed air into the motor housing to expell dust. Clean the motor brushes with a clean cloth and reinstall. Motor should be cleaned every 40 hours of operation in high dust environments.

CLEANING/LUBRICATING SHAFT:

Once every 200 hours, the shaft of your Rotamax should be thoroughly cleaned with a solvent and lubricated. For general maintenance, the shaft should be wiped clean and lubricated once every 50 hours of use.



1. Remove handpiece by pulling gently from sheath.
2. Unscrew motor connector by turning **CLOCKWISE**.
3. Slide off motor connector and sheath.
4. Wipe shaft with a clean cloth. Apply a **LIGHT** film of shaft grease (part no. 236-512) to the shaft. **DO NOT GREASE THE LAST INCH OF THE SHAFT (HANDPIECE END).**
5. Reinstall motor connector and sheath, turning **COUNTER-CLOCKWISE** to tighten.
6. Reinstall handpiece (see page 3).

REPLACING SHAFT:

1. Remove handpiece by pulling gently from sheath.
2. Unscrew motor connector by turning **CLOCKWISE** and slide off motor connector and sheath.
4. Loosen the set screw on the motor coupling and remove the shaft from the motor.
5. Slide the motor coupling of the new flexible shaft onto the motor shaft, making sure the set screw is aligned with the flat of the motor shaft.
6. Tighten the set screw on the motor coupling.
7. Apply a **LIGHT** film of shaft grease (part no. 236-512) to the shaft. **DO NOT GREASE THE LAST INCH OF THE SHAFT (HANDPIECE END).**
8. Reinstall motor connector and sheath, turning **COUNTER-CLOCKWISE** to tighten.
9. Reinstall handpiece (see page 3).

REPLACING SHEATH:

1. Remove handpiece by pulling gently from sheath.

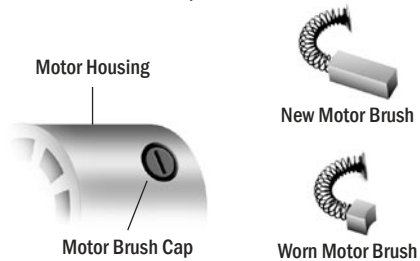
2. Loosen set screw in motor connector and slide off sheath.
3. Wipe shaft with a clean cloth. Apply a **LIGHT** film of shaft grease (part no. 236-512) to the shaft. **DO NOT GREASE THE LAST INCH OF THE SHAFT (HANDPIECE END).**
4. Slide new sheath over flexible shaft and into motor connector.
5. Lay the entire unit on a flat surface with the shaft straightened. Adjust the sheath position inside the motor connector so that $\frac{3}{4}$ " of the shaft protrudes from the sheath. Tighten the set screw.
6. Reinstall handpiece (see page 3).

REPLACING MOTOR BRUSHES:



DISCONNECT POWER.

Unscrew the two motor brush caps and remove the brushes. If brushes are less than $\frac{1}{4}$ " long they should be replaced. New brushes are approximately $\frac{3}{4}$ " long. Install with springs pointing outward and screw on the brush caps.



Limited Warranty

The Contenti Company warrants your Rotamax 25 to be free of defects in material and workmanship for a period of 1 year from the date of purchase. If found to be defective within this warranty period, it will be repaired or replaced at no charge or the purchase price will be refunded (at our discretion).

This warranty does not cover damage due to improper use, alteration, unauthorized repairs, neglect, or wear during normal operation. Damage or failure of this product due to conditions beyond our control, such as improper voltage, voltage fluctuation, or excessive ambient temperatures will cause this warranty to become void.

THERE IS NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER IMPLIED WARRANTY BEYOND THE ONE YEAR PERIOD DESCRIBED ABOVE. SELLER SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES NOR FOR ANY FURTHER LOSS WHICH MAY ARISE IN CONNECTION WITH ANY CLAIM.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Repair Services

Authorized repair service is available directly through The Contenti Company. Items being returned for repair under the limited warranty stated above must be pre-authorized by The Contenti Company. All repairs, whether under warranty or not, should be mailed pre-paid with a packing list and explanation/reason for return to:

The Contenti Company
Attn: Repair Department
140 Summer Street
Providence, RI 02903

Please allow three days after we receive your package to contact you with a repair estimate. Repairs will not proceed without your approval.