JJJJJ USER GUIDE

PROFESSIONAL FINISHING JUST GOT EASIER



WATCH!

JOOLTOOLUSA

JOIN! JOOLTOOL COMMUNITY



BUY SUPPLIES AT WWW.JOOLTOOL.COM

Lots of

project

ideas

inside!

JOOLTOC

by

nie

JEWELER, INVENTOR AND CEO

HI! I'M ANIE.

Thank you for purchasing the JOOLTOOL[™], the most innovative and versatile benchtop finishing system!



I grew up working as a bench jeweler at my father's manufacturing business. After learning to work the hard way, I felt the need to create my own tools to make the process easier, safer and more productive.

A few years later, this inventive spirit led me to design the JOOLTOOL[™] and my patented See-Thru Technology. I developed it for people like you and me, who need one tool to do it all. The JOOLTOOL[™] lets you polish quicker, grind cooler and sharpen with precision, all while leaving a professional-quality finish!





Creating a whole new tool category is no easy task, so I chose the 3M Company as my main partner. We both share a passion for innovation and quality. Their industrial-grade abrasives are a perfect match for our rugged JOOLTOOL™.

The JOOLTOOL[™] is intuitive and easy to learn: keep reading to get started and see "**ANIE'S TIPS**" throughout this guide. Want to become a JOOLTOOL[™] master? Watch my LIVE shows on YouTube and Facebook!

Stay in touch; my team is always here to help you.

Sincerely,

PRESIDENT & CEO

WATCH MY LIVE SHOWS
VOUTUBE CHANNEL JOOLTOOLUSA

LIVE FACEBOOK JOOLTOOLOFFICIAL

Join our welcoming **JOOLTOOL Community** on Facebook, check out my fun posts on Instagram, watch instructional videos on YouTube and more!



TABLE OF CONTENTS

	n /
QUICK-START	p.4
IMPORTANT TIPS	p.5
SAFETY	p.6
SAFETY SHUT-OFF FEATURE	p.7
TECHNICAL INFO	p.8
ABRASIVE QUICK-REFERENCE	p.9
ABRASIVES, BACKPADS & CUSHIONS	p.10
USE & MAINTENANCE	p.11
DRAWER, HOOD & ATTACHMENTS	p.12
PORTABLE & HORIZONTAL MODES	p.13
TOOL REST - CHISEL SIDE	p.14
TOOL REST - DRILL BIT SIDE	p.15
SHARPENING BASICS	p.16
SHARPENING & TOOLMAKING STEPS	p.17
FELT DISC & CARE TIPS	p.18
METALWORKING STEPS	p.19
HARD & SOFT LAPIDARY (STONES OF ANY HARDNESS UP TO 9.5 MOHS, MINERAL CRYSTAL, HARD GLASS & M	ORE) p.20
SOFT LAPIDARY (STONES AT OR BELOW 7.5 MOHS)	p.21
FLAT TOP DISCS FOR HARD & SOFT STONES + GLASS BOTTLES	p.22
FLAT TOP DISCS FOR SOFT STONES + GLASS BOTTLES	p.23
"FLAT" POLYMER CLAY & RESIN + FLAT PLASTIC WATCH CRYSTAL (FLAT OR DETAILED PIECES)	p.24
"ROUND" POLYMER CLAY & RESIN + DOMED PLASTIC WATCH CRYSTAL (DOMED OR ROUND PIECES)	p.25
GLASS WATCH CRYSTAL + WATCH CASE & BAND FINISHING	p.26
SAPPHIRE WATCH CRYSTAL	p.27
ENAMEL / FUSED GLASS / LAMP WORK	p.28
JOOLTOOL HD FLEXSHAFT	p.29
DIAMOND MANDREL & POPULAR ACCESSORIES	p.30
3M BRUSHES & SCRUBBY WHEELS	p.31
TROUBLESHOOTING	p.32
WARRANTY	p.33
TRAVEL TIPS	p.34
PROJECT EXAMPLES	p.35
ABRASIVE CHART	(BACK COVER)



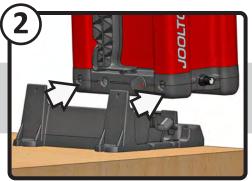
HOW TO QUICKLY SETUP YOUR JOOLTOOL™

QUICK START

SECURE THE BASE

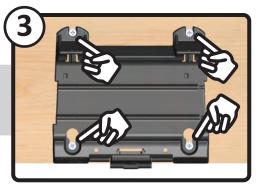


- a Press EJECT BUTTON to release the tool from the BASE DOCK
- **b** Lightly tilt machine upwards



(.1) Slide machine off ALIGNMENT PINS to detach from BASE DOCK

To re-attach after Step 3:
-Align and slide tool onto PINS.
-Push down until HOOK snaps in place.



Set the BASE close to edge of bench or table and secure with screws of your choice. Refer to 4 locations shown above. If setting on a glass surface, use the pre-installed rubber "feet" at all 4 corners of the base.

Re-attach machine onto base, see Step 2.2

SETUP ABRASIVES

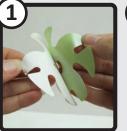
Some Abrasives may need a Cushion Pad Fine Grades such as Trizact or Diamond



Remove protective film from Cushion.



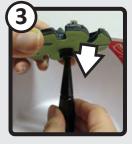
e Align See-Thru . design with Backpad and press firmly to adhere.



Remove protective film from abrasive



Align See-Thru design with Backpad slots and press firmly to adhere.

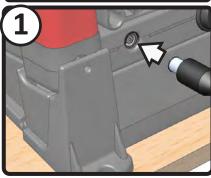


With abrasive side DOWN, place the disc onto your Jooltool Spindle.



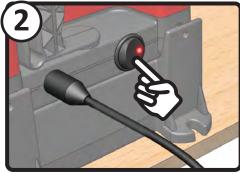
Twist the disc assembly onto your Jooltool Spindle. Twist until locked, but do NOT overtighten.





a Connect the power supply to the rear of your Jooltool as shown,
b Connect powercord into an electrical outlet.

POWER ON



Turn the REAR POWER SWITCH ON.

Do **NOT** use the rear power switch to turn the machine OFF while the disc is spinning.

ADJUST SPEED



Turn knob **clockwise** (ON) and increase speed:

1/4 turn is **SLOW** speed. Halfway is **MEDIUM** speed. 3/4 turn and beyond is **HIGH** speed.

Turning **Counterclockwise** reduces speed and turns the machine **OFF** (audible and tactile click).

IMPORTANT TIPS



DO NOT PUSH HARD WHEN WORKING

PUSHING HARD WILL QUICKLY WEAR OUT YOUR ABRASIVES AND MAY TRIGGER THE MACHINE'S SAFETY SHUT-OFF FEATURE. REPEATED SAFETY SHUT-OFFS MAY CAUSE LONG-TERM DAMAGE TO THE INTERNAL COMPONENTS OF YOUR JOOLTOOL MACHINE.

ANIE SAYS ON HER LIVE SHOWS: "NO PUSHY PUSHY!"



WORK IN THE MAIN SEE-THRU AREA OF THE SPINNING DISC

WHEN DONE: DROP (LOWER) THE WORKPIECE DOWNWARD, AWAY FROM THE DISC



TOP QUARTER VIEW



SIDE VIEW



SIDE VIEW



DO NOT WORK ON THE EDGE OR SLIDE OFF THE EDGE OF THE SPINNING DISC SLIDING OFF THE DISC MAY CAUSE UNWANTED STRIATIONS ON THE FINISHED PIECE AND DAMAGE YOUR ABRASIVES



TOP QUARTER VIEW



ANIE SAYS : "NO SLIDY SLIDY!"

SIDE VIEW



DO NOT USE THE REAR POWER SWITCH TO TURN THE MACHINE OFF WHILE IT'S SPINNING USE THE SPEED CONTROL KNOB FOR REGULAR ON/OFF OPERATION WHEN WORKING. USE THE REAR POWER SWITCH TO TURN THE TOOL OFF TO PREVENT ACCIDENTAL STARTING WHEN IT IS UNATTENTED.





SAFETY



WARNING: Read all safety warnings and all instructions and save them for future reference. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

1) WORK AREA SAFETY

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plug and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, metal worktops, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose the Jooltool to rain or wet conditions. Water entering a power tool increases the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the Jooltool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating the Jooltool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating the Jooltool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock. NOTE The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

3) PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying the power tool with your finger on the switch or energizing power tools that have the switch ON invites accidents.

d) Remove any adjusting key or wrench before turning the power tool ON. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Even with built-in safety features, loose clothes, jewelry or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4) POWER TOOL USE AND CARE

a) Do not force the power tool. Use the correct attachment, accessory, abrasive and speed setting for your application. The correct attachment, abrasive and speed setting will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep parts, abrasives & accessories clean and always replace worn parts, abrasives & accessories. New parts, abrasives and accessories perform better and provide better control when working on your workpiece.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) SERVICE

a) Have your Jooltool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the Jooltool is maintained.

b) If the Jooltool power adapter is damaged, it must be replaced by an original Jooltool power supply unit.

c) If only the Jooltool power cord is damaged, it must be replaced by a cord of the same exact type, gauge and rating.

SAFETY SHUT-OFF FEATURE

The JOOLTOOL is renowned for its innovative versatility and the exceptional results it provides. It is also one of the safest benchtop finishing tools in the world.

Every JOOLTOOL machine has a built-in electronic safety shut-off feature which helps prevent injuries and damage to the equipment. This feature is akin to a torque-sensing system. Whenever the user applies excessive pressure beyond the engineered limits of the spinning abrasive or wheel, the machine protects the user via two components:

1. ELECTRONICS MODULE

The electronics module located at the base of the main body of the JOOLTOOL machine unit has a built-in, interchangeable fuse. This is a secondary level of protection and may rarely be triggered during normal use. If needed, the fuse is replaceable. This feature is only accessible once the bottom cover has been removed by an approved JOOLTOOL service technician (recommended).

2. POWER ADAPTER

The power adapter is often the first stage in assuring user safety by providing overload protection. This critical part has been specially designed to meet the stringent new IEC60335 CE safety standards for peace of mind. • Upon sensing extreme pressure which creates a surge of electrical current, the adapter acts as a circuit breaker to prevent harm to the user and the JOOLTOOL machine unit.

• When this feature has been triggered, the LED indicator on the adapter will shut off; this is a resettable state. See ADAPTER RESET INSTRUCTIONS below.

When either of these two safety components have been triggered, the JOOLTOOL machine will be temporarily inoperable until the ADAPTER RESET has been performed or the fuse has been replaced, as needed.

ADAPTER RESET INSTRUCTIONS

Perform these steps if the LED indicator light on the POWER ADAPTER is no longer lit while plugged in.

Turn the speed control knob counterclockwise to turn the machine OFF until your hear a "click".

TO AVOID ABUSING AND DAMAGING THE SAFETY FEATURE:

Unplug the power

cord from the adapter.

Wait 5 seconds.The

LED indicator light

should be OFF now.

- Use gentle but consistent pressure while working on the JOOLTOOL; 3M abrasives require very little effort to provide great results. Move the workpiece continuously & maintain contact with the abrasive for a uniform finish.

Plug the mains

power cord back into

the adapter. The LED

indicator light should

be ON if plugged into

a power outlet.

- Always ensure the SPEED CONTROL KNOB is OFF before turning the machine ON using the rear power switch.

- Always turn the machine off with the SPEED CONTROL KNOB first.

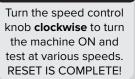
Do NOT use the rear power switch to turn the machine OFF while the disc is spinning.

NOTE: THIS PAGE OUTLINES THE PASSIVE SAFETY FEATURES OF THE JOOLTOOL SYSTEM. THESE FEATURES ARE NOT A SUBSTITUTE FOR PROPER WORKPLACE SAFETY PRACTICES. ALWAYS FOLLOW THE POWER TOOL OPERATING INSTRUCTIONS AS THEY APPEAR IN THIS JOOLTOOL USER GUIDE (AND PLEASE USE COMMON SENSE.)

p.7



If equipped, check the ON/OFF switch at the rear of the machine. The LED should be ON now.





ENGINEERED FOR YOUR PROTECTIO



TECHNICAL INFO

DIMENSIONS AND SPECIFICATIONS



ELECTRICAL SPECIFICATIONS

MOTOR

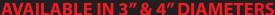
Constant Voltage: Current: Output: Speed: 12.0 V to 19.0V 3.4A to 5.0 A (19 A max) 45 W (110 W Max) 0-5000 RPM (max) CCW

POWER ADAPTOR

Input Voltage: 100Vac~240Vac (Max 264Vac) Input Frequency: 50Hz/60Hz

Note: Actual speed may depend on current and load.

ABRASIVE QUICK-REFERENCE





Toll Free: 1-85-JOOLTOOL

Warning: motor rotation is COUNTER-CLOCKWISE Follow all safety instructions shown below

ALWAYS turn JOOLTOOL "OFF" before installing/changing BACKPADS or ACCESSORIES. **NEVER** install BACKPADS while the motor is "ON". This can cause personal injury.

ALWAYS install BACKPADS with ABRASIVE side DOWN.

ALWAYS tighten your BACKPADS snuggly onto the spindle before use.

ALWAYS use GENUINE JOOLTOOL[™] BACKPADS & ORIGINAL spindle.

This will guarantee that your discs will be perfectly centered and give you optimal results. **NEVER** use third-party (non-JOOLTOOL[™] brand) Spindles.

NEVER use damaged or cracked BACKPADS as they may break apart during use, potentially causing injury. **NEVER** place workpiece on top or the side of spinning disc. The disc can eject workpiece and may cause loss of control. **ALWAYS** Turn the Jooltool "OFF" if excessive vibration occurs during use. **See "TROUBLESHOOTING" for details.**

CUSHIONS - SETUP & SAFETY



Use for ABRASIVES that require CUSHION BACKING (ex: Polishing Diamond, Trizact[™] and other FINE Abrasives) ALWAYS apply CUSHIONS BEFORE applying ABRASIVES. ALWAYS remove all protective film from CUSHIONS before applying it onto the BACKPADS. ALWAYS apply CUSHIONS to flat surface of BACKPADS.



NOTE: DO NOT APPLY CUSHIONS UNDER FELT DISC OR SCRATCH-ERASER ABRASIVES.

ABRASIVES - RECOMMENDED SETUP & SAFETY



Remove all protective film from new ABRASIVE before applying it onto the BACKPAD. **NOTE: Adhesive cures rapidly when ABRASIVE is applied onto BACKPAD.**

ANIE'S TIP: At first, apply the ABRASIVE very lightly onto the BACKPAD. This will give you the opportunity to make corrections and adjust the SEE-THRU[™] pattern alignment if necessary before the adhesive cures. Press firmly to adhere when the SEE-THRU[™] alignment is correct.

ALWAYS place abrasive on the FLAT (BOTTOM) surface of the BACKPAD. **ALWAYS** install abrasives on the BACKPAD by aligning correctly with the SEE-THRU[™] design. **ALWAYS** press firmly to ensure full adherence between ABRASIVE and BACKPAD.

HOW TO REMOVE LEFTOVER ADHESIVE FROM BACKPADS: When changing worn abrasives, you can leave the leftover adhesive on the BACKPAD as the new abrasive will likely fuse with it upon use. If you prefer a clean surface, you can remove leftover adhesive by dabbing with the sticky side of your old abrasive or sticky tape. Do NOT use solvents!

ALWAYS change ABRASIVE if it is damaged, torn or is excessively worn. 3M recommends to DISCARD an abrasive once it's been removed/unstuck from the BACKPAD as the ADHESIVE on the Abrasive is designed for SINGLE APPLICATION ONLY. Failure to follow this rule can potentially cause property damage and/or personal injury!



NEVER use an ABRASIVE if it is not adhering to the BACKPAD. NEVER apply ABRASIVES on BACKPAD when wet. NEVER use disc if the ABRASIVE has been improperly installed onto the BACKPAD. Improperly installed abrasive increases risk of property damage and/or personal injury! NEVER cut, change, or distort the shape of the SEE-THRU [™] design on the abrasive.

USE & MAINTENANCE



PLEASE USE COMMON SENSE WHEN WORKING ON THE JOOLTOOLTM SYSTEM

If you are not sure how to accomplish a particular task, please consult us **BEFORE** starting your project. Stay within the Jooltool's designed limits to achieve great results as well as a safe & enjoyable experience.

For best visibility and control, work WITHIN the SEE-THRU™ area of your spinning Backpad.

The JOOLTOOL automatically directs dust and sparks toward the VACCUUM PORT. For a cleaner and safer work area, use a firmly-secured, strong dust collection (vacuum) system.



JOOLTOOL VACCUUM Item# V-FW11



ALWAYS use light, gentle pressure when working.

NEVER use excessive pressure on the disc, the spindle or any attached accessory while using the tool. ALWAYS work on workpieces of a hand-manageable size or use a proper holding accessory. NEVER work on workpieces that may get stuck between the Backpad and Hood accessory. ALWAYS use accessories and attachments for their intended applications. ALWAYS use only JOOLTOOL[™]-approved accessories with this JOOLTOOL[™] unit. NEVER use the tool with any accessories that seem damaged or excessively worn.

If in doubt, turn the tool "OFF" IMMEDIATELY and inspect thoroughly. Replace any badly worn or broken accessories. **ALWAYS pay close attention around rotating wheels or discs.** Moving parts may cause injury.

NEVER try to stop the discs or wheels with your hands or with any object. Spinning disc may cause injury. **ALWAYS** let the tool to come to a complete stop BEFORE changing attachments or accessories.

MAINTENANCE

Anie designed the *JOOLTOOL*[™] System to bring you years of service without requiring maintenance. If your unit needs special attention, it should only be performed by an authorized service center or directly by the manufacturer, *JOOLTOOL*[™].



NEVER attempt to repair or service any part of the tool yourself. Doing so may result in damage to the unit and accessories, electrical shock, injury or death.

CLEANING



ANIE'S TIP: CLEAN YOUR JOOLTOOL REGULARLY TO KEEP YOUR WARRANTY VALID.

Although the JOOLTOOL is designed to work as cleanly as possible, the warranty does not cover neglect. Ex: failure to discard excess dust collected near or inside the motor shaft/bearings.

ALWAYS disconnect power from the tool before cleaning the JOOLTOOL System or Accessories. Wipe clean with a cotton rag or soft brush.

The removable **HOOD** can be washed with soap & water. **ALWAYS** remove the **HOOD** before washing! **ALWAYS** Dry the **Hood** before re-installing onto the *JOOLTOOL*[™].

NOTE: ALWAYS wear EYE PROTECTION when using compressed air for cleaning.



ALWAYS make sure the electrical connections and switch are clean & dry BEFORE powering on. Wet or Damp connections or electrical components may result in electrical shock, injury or death. **NEVER** insert rigid objects through openings or electrical connections in an attempt to clean.

NEVER use cleaning agents/solvents that may damage plastic parts: gasoline, ammonia-based cleaners, chlorinated solvents, carbon tetrachloride (brake cleaner), some paint thinners and others.

Toll Free: 1-85-JOOLTOOL

HOW TO USE THESE FEATURES

DRAWER, HOOD & ATTACHMENTS

STORAGE DRAWER & WATER TRAY



Pull the tab under the speed control switch to slide the DRAWER out from under your Jooltool. Push to slide in. Great for storing small items!

HOOD REMOVAL



The drawer transforms into a handy water tray. Slide it completely off the tool, then mount it by inserting the 2 locator pins into the 2 holes at the top of the Jooltool.



The drawer/water tray can hold water for quick access to lubrication when performing lapidary work.



WARNING! DO NOT OVERFILL! WATER CONTACT WITH WIRES MAY CAUSE RISK OF ELECTRIC SHOCK!



Push OUT on both sides of the hood.



Slide the Hood out and away from the Jooltool. Reverse steps 1 & 2 to reinstall (Center the rear tab, pull towards you, snap tabs back into their slots)



With the Hood removed, you can now work on very large items and have even more freedom with the flexshaft & accessories (see below).

USB PORTS



The 2 convenient rear USB ports can power LED lights or charge your mobile devices. Anie recommends to keep your machine stationary while charging.

TOOL REST

(may be sold separately)



Use the Tool Rest to get sharp and precise angles on chisels & drill bits. (see "TOOL REST CHISEL SIDE" & "TOOL REST DRILL BIT SIDE" in this guide) Item# TR-1

FLEXSHAFT & ACCESSORIES

(may be sold separately)





The Flexshaft attaches to heavy-duty Handpieces to use Dremel-type bits, Drilling burrs, power carvers, sanders and more... (see "**JOOLTOOL HD FLEXSHAFT**" in this guide)

Item# K-FH33

Toll Free: 1-85-JOOLTOOL

p.12

Buy supplies at WWW.JOOLTOOL.COM

WARNING:

NEVER USE THE JOOLTOOL WITH SEE-THRU BACKPADS IN HORIZONTAL OR PORTABLE MODES! THESE MODES ARE ONLY FOR USE WITH 3M RADIAL BRISTLE BRUSHES & PURPOSELY DESIGNED ACCESSORIES. ALWAYS DOCK THE TOOL VERTICALLY ON ITS BASE WHEN USING SEE-THRU BACKPADS! NEVER TRY TO SHARPEN WITH SEE-THRU DISCS WHILE IN HORIZONTAL OR PORTABLE MODES, THIS NULLIFIES THE SEE-THRU EFFECT AND CAN CAUSE YOU TO LOSE CONTROL OF THE WORKPIECE. FAILURE TO FOLLOW THESE DIRECTIONS CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE!

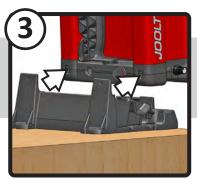
PORTABLE MODE





Press EJECT BUTTON to release the tool from base.

GENTLY tilt machine upwards



Slide machine away from ALIGNMENT PINS to fully detach from docking base.



Use the retractable handle at the rear of your JOOLTOOL to work in PORTABLE mode.

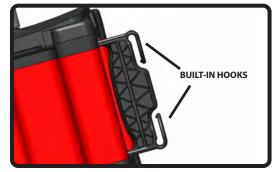


Use the PORTABLE mode for sanding or polishing large items such as silver trays, furniture, hardware, and more.

HORIZONTAL MODE



The Jooltool is also great for removing scratches from headlight lenses and gently buffing clear-coated surfaces using slow speed settings.



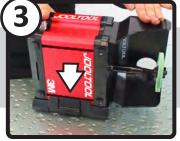
The Handle has 2 convenient built-in hooks. You can hang the JOOLTOOL upright or upside-down, wherever you see fit. Perfect when using the Flexshaft accessory!



Undock the Jooltool from its base per steps above (1 to 4)



Set the Jooltool to its side and align the Holes at the rear of the Tool with the ALIGNMENT PINS on the BASE. Speed control switch will be pointing upward when properly docked.



Press DOWN to lock in position, front HOOK will snap into the SLOT of the JOOLTOOL body. To reset Vertical Mode, press EJECT then reverse steps 1 & 2.



This is a classic, bench style of polishing and finishing. NOTE: The Vacuum Port is fully functional in both Horizontal & Vertical modes.

TOOL REST - CHISEL SIDE

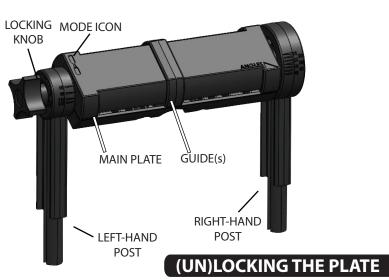
HOW TO SETUP & SHARPEN COMMON CHISELS

MULTIPLE FUNCTIONS

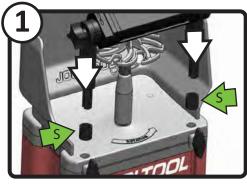
The Tool Rest has a rotating MAIN PLATE which has 2 sides/functions:

-One side helps set bevel angles on square-edged Tools such as Chisels

-The other side helps you sharpen Drill Bits to precise degrees.

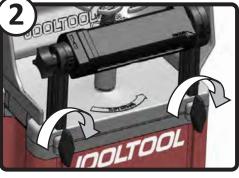


INSTALL THE TOOL REST



Slide the Posts into the mounting holes as shown. Locking knob will be on left-hand side when properly mounted.

Spacers ("S") provide additional height if needed. Contact us for availability.



Lock the Tool Rest in place by tightening the post locking screws (Turn Clockwise to lock)

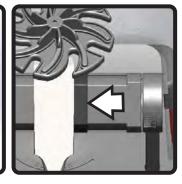


UNLOCK MAIN PLATE BEFORE ROTATING Turn knob counterclockwise to loosen, but do NOT unscrew completely. Failure to unlock before rotating may result in permanent damage to the Tool Rest. LOCK MAIN PLATE AFTER SETTING ANGLE Turn knob clockwise to lock the position, but do NOT overtighten.

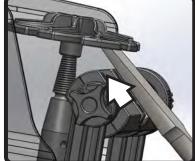
CHISEL / FLAT-BLADE SIDE



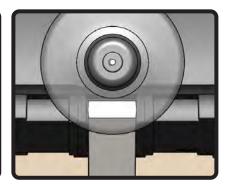
set the desired angle by aligning indicators on **RIGHT-HAND** post with the ANGLES indicator.



Rotate the main PLATE to For precise & even angles, slide the Guides to the corresponding width of your tool. Make sure the full face to be sharpened is in Lock with LOCKING KNOB contact with the abrasive. Tool must slide in/out freely. for honing existing bevels.

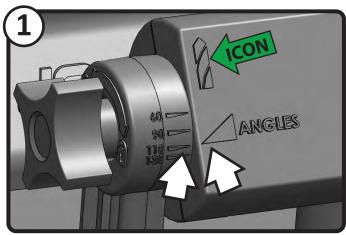


Sharpen the Chisel by sliding the cutting edge it into the spinning disc. Use coarse grades such as 3M Purple Ceramic for regrinding a damaged edge. Use fine grades (3M Trizact™)

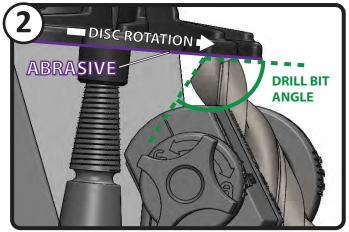


Always make uniform contact with the spinning abrasive. Use coarse abrasives to re-grind edges and fine abrasives to polish. When done, slide the Chisel away from the disc and turn the JOOLTOOL OFF. SEE DEBURRING INFO ON NEXT PAGE

TOOL REST - DRILL BIT SIDE



Rotate the main PLATE to the DRILL BIT side (ICON). Set the desired angle by aligning indicators on LEFT-HAND post with the ANGLES indicator. The most common setting is 118 degrees Lock with LOCKING KNOB.



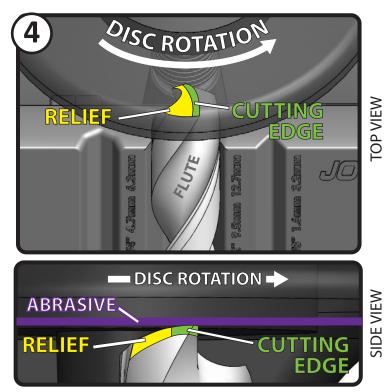
The resulting **drill bit angle** will be as set in STEP 1. Use coarse grade abrasives such as 3M Purple Ceramic to regrind damaged bits. Use 3M Trizact[™] for honing edges. **Tip: Use 3M Diamond Abrasives for Carbide Bits.**



Select the guide slot of corresponding Bit diameter. Sizes shown next to SLOTS are recommendations. Slide the drill bit into the spinning disc. Ensure a secure, flat contact with the full length of the slot.

NOTE: Do not sharpen the FLUTES, see "DEBURRING" below.

DEBURRING DRILL BITS & OTHER TOOLS



Rotate the drill bit on its main axis to sharpen all CUTTING EDGES. Make sure each cutting edge is higher than its RELIEF. (back of the flank). This will ensure the bit cuts well and extracts drilled material properly. Slide the bit along the slot, away from the disc and turn the JOOLTOOL OFF when done.



(OPTIONAL)

Use **3M Radial Brushes** (6 & 1 Micron) to sweep the burr away from the cutting edge or flute.

6 Micron Item# R-362-6 1 Micron Item# R-361-1

Toll Free: 1-85-JOOLTOOL

SHARPENING BASICS

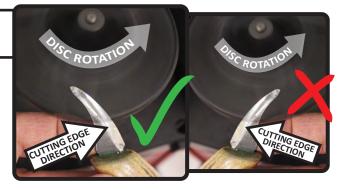
HOW TO HOLD WORKPIECES FOR SHARPENING

The motor rotation is COUNTER CLOCKWISE. Always keep sharp edges or tips in the same direction as the rotation!

HOLDING THE WORKPIECE

- With **BOTH** hands, Hold the workpiece directly **UNDER** the disc. - Make GENTLE, uniform contact between the SPINNING disc and the EDGE to be sharpened.

- ALWAYS WORK WITHIN THE SEE-THRU AREA OF THE DISC!



DISC

ANIE'S TIP: Know what you want to accomplish and use the correct abrasive for the task. Using the right abrasives increases productivity, the quality of your work and the longevity of your abrasives. Always start off with a finer abrasive, you can use a coarser grade if you need more abrasive power.



ANIE'S TIP: To improve visibility of the surface or edge you are working on, darken it with a black marker (Sharpie[™]) or use a marker color that contrasts with the surface to be worked. The marker gets erased on contact with the abrasive.

MAINTAINING THE CORRECT ANGLE

To maintain the angle of your flat workpieces. Follow these steps.



STEP 1: Lightly make contact with the "back" of the edge to the disc.





STEP 3:

WORKPIECE

When desired result is achieved, disconnect the tool from the abrasive by lowering it. **DO NOT SLIDE OFF THE DISC**! THIS CAN RUIN THE ANGLE OF THE EDGE

TIPS FOR SHARPENING LONG FLAT TOOLS (Knives, Planer Blades & Similar)



FIND THE EDGE ANGLE (as shown in STEPS 1-2 above), then GRADUALLY FEED the workpiece's edge under the disc while keeping a FULL and FLAT contact. Work from the inner to the outer edge. You may stop anytime by simply lowering the workpiece as described above in STEP 3.

AVOID WORKING OR **SLIDING** OFF THE EDGE OF THE DISC! This will prevent damage to the BACKPAD or the workpiece.

- ALWAYS KEEP SHARP EDGES OR TIPS IN THE SAME DIRECTION AS THE ROTATION! - AVOID "SEE-SAWING" THE PIECE ON THE DISC! (NOTE: This can cause unnecessary roundness) - LOWER THE WORKPIECE WHEN DONE, DO NOT SLIDE OFF THE EDGE OF THE DISC!

TIPS FOR SHARPENING BEVELED TOOLS (Gouges, Auger Bits & Similar)



For workpieces with rounded edges, keep in mind that they generally have a FLAT EDGE which simply contours the rounded surface of the workpiece.

A- Make contact with the FLAT EDGE to be worked on. (See STEP 2 above)

B- Then, in a GRADUAL MOTION, move the workpiece so as to follow its ROUNDED SHAPE while maintaining full contact with the FLAT EDGE. Stop when the desired result is achieved. For lathe gouges with a fingernail shape:

Move the handle of the tool with pendulum-like motion while performing steps **A & B** here.

SHARPENING & TOOLMAKING STEPS

FOR METAL* CUTTING TOOLS



Apply CUSHIONS to BACKPADS. FELT does not need a cushion.



Apply abrasives onto BACKPADS (with the CUSHIONS applied).

Prepare FELT DISC as shown in your



USER'S GUIDE and VIDEO

IMPORTANT: Stay within your see-thru area of the disc. Avoid pointing cutting edges into the disc NOTE: You can use the TOOL REST accessory to sharpen with precision. (p.14-15)

START FOLLOW STEPS FROM TOP TO BOTTOM Available in 3" & 4" diameter -**STEP 1 GRIND, SHAPE and BEVEL EDGES** Follow these steps for grinding and shaping. 80 Grit (1a) Use 3M Purple Ceramic abrasives. Item# AC-13080-6 **Speed:** Maximum 120 Grit Pressure: Light and consistent (1b) Item# AC-13120-6 Follow this order: 220 Grit (1c) 80 Grit, 120 Grit, then 220 Grit. Item# AC-13220-6 **STEP 2 SHARPEN, HONE and MAINTAIN EDGES** 2 Coarse Follow these steps for re-sharpening and honing. (2a) Item# AT-13035-6 Use **3M Trizact** abrasives, the colorful discs. Speed: Maximum Medium (2b) Item# AT-13020-6 Pressure: Light and consistent Follow this order: Fine (2c) Item# AT-13010-6 Coarse Green Medium Pink **Very Fine** Fine Blue (2d) Item# AT-13005-6 Very Fine Orange **STEP 3 POLISH METALS** FELT DISC 3 (3) Item# B-301 Use the **FELT DISC** to get a final polish on your metal. FINISH Speed: Maximum USE WITH COMPOUND Item#: C-103 Pressure: Light and consistent **OPTIONAL DEBURRING (OPTIONAL)** 6 Micron (01) Use 3M Radial Brushes (6 & 1 Micron) to sweep Item# R-362-6 the burr away from the cutting edge or flute. 1 Micron (O2) Speed: Maximum Item# R-361-1 the steps above for metals up to 63-65 Rockwell "C" hardness such as High Speed Steels. **OPTIONAL** FOR CARBIDES AND EXOTIC METALS (82+ HRC scale) Use 3M Microfinishing Diamond Abrasives to sharpen high-carbon steels, cobalt, titanium and others.

Toll Free: 1-85-JOOLTOOL

Included in CARBIDE SHARPENING ADD-ON KIT

(O3) Item# K-3633-

FELT DISC & CARE TIPS

HOW TO USE THE SEE-THRU™ FELT DISC

NEVER use felt with WATER. It can absorb it and **disintegrate!**

NEVER force a sharp tip into the spinning FELT DISC. It will DAMAGE it.

NEVER use outer perimeter of FELT DISC to polish, it may cause loss of control of workpiece. ALWAYS apply compound from UNDERNEATH of wheel, NOT from the EDGE or the TOP.

ALWAYS store FELT and compound in a DRY location. It can absorb moisture and disintegrate.

MOUNT THE FELT DISC ONTO A BACKPAD)



1-Remove protective film from adhesive side. 2-Align SEE-THRU pattern to BACKPAD 3-Adhere fully to flat surface of BACKPAD.

ANIE'S TIP: For a showcase shine, use 3M[™] EXL SCRATCH-ERASER (item # S-3601) to prepare piece BEFORE polishing. JEWELRY POLISHING (p.19 Step (2))

SAND THE FELT DISC BEFORE FIRST USE & IF BLACK SMEARS OCCUR DURING USE



GENTLY SAND THE FELT DISC IF IT IS UNEVEN OR BECOMES DIRTY (LEAVES BLACK SMUDGES) Run the disc at full speed, sand it flat until it feels smooth and even to the touch. You can use our 3M CERAMIC ABRASIVE SHEETS (Item # AC-15000-5) mounted onto a rigid support. This technique can also be used to RE-DRESS the disc if it develops grooves.

NOTE: Loose particles may be released into the air during this process, wear eye and respiratory protection and use strong vacuum attached to the port on the HOOD.



USE THE FELT DISC



APPLY COMPOUND:

COMPOUND Item#: C-103

With your JOOLTOOL running at FULL SPEED, Apply Compound generously

POLISH:

Polish freely as needed to achieve a high luster. Harder materials may require more compound. **DO NOT USE WITH WATER! ALWAYS STORE IN DRY LOCATION!**

ANIE'S TIP:

You can also use the FELT and COMPOUND to polish soft stones such as opals, turquoise.

ANIE'S TIP: AVOID CROSS-CONTAMINATION. Have a FELT DISC for polishing metals and another FELT DISC for polishing stones.

This will prevent build-up of metal particles on the FELT and scratching your finished lapidary pieces.

ANIE'S EXTRA TIP: IF YOUR FELT STARTS TO LEAVE BLACK SMEARS ON YOUR WORKPIECE, YOU MAY BE USING TOO MUCH COMPOUND. TO REMOVE THE SMEARS, SIMPLY USE THE "SAND THE FELT DISC BEFORE FIRST USE" STEPS (AS SHOWN ABOVE) THEN POLISH YOUR WORKPIECE AGAIN.



DO NOT FORCE THE TIP OF SHARP TOOLS OR OBJECTS DIRECTLY INTO THE SPINNING FELT DISC! This can create a groove which will need redressing the felt disc. See PREPARE & MAINTAIN THE FELT WHEEL

ANIE'S "MAGIC" BUFFING WHEELS



Anie's PINK MAGIC BUFFING WHEELS and YELLOW MAGIC BUFFING WHEELS are great as a final step to remove fingerprints and achieve a super high luster.

Item# B-305 (shown) & B-303, B-403

POLISHING USING PORTABLE MODE



Use JOOLTOOL'S portable mode with the FLUFFY COTTON BUFFING WHEEL for removing scratches from headlight lenses or for buffing large items.



KEEP AWAY

FROM WATER!

METALWORKING STEPS

SHAPING & POLISHING JEWELRY & METAL ITEMS





Apply Abrasives onto BACKPADS.



on BACKPAD



Apply and Prepare FELT DISC



Available in 3" & 4" diameter

2

(3)

SAFETY FIRST! Always wear eye and respiratory protection.

START

FULL METALWORKING AND POLISHING KIT Item# K-1003 or K-2003

NOTE: A JEWELRY PROJECT IS PICTURED

BELOW. SAME STEPS CAN ALSO BE APPLIED TO OTHER INDUSTRIES

PURPLE CERAMIC

Item# AC-13120-6

SCOTCHBRITE EXL

Item# S-3601

FELT DISC

Item#: C-103

31.35

•

Item# B-301

ANIE'S TIPS:

- Always let your abrasives do the work, use a gentle touch, do NOT use force!
- Gently apply your piece to the spinning abrasive disc, making full contact.
- Keep moving your piece to achieve a much-desired uniform shape (or polish)
- You can also use a certain step individually if that is your desired final finish.

FOLLOW STEPS FROM TOP TO BOTTOM

GRIND and SHAPE the piece

Use 3M[™] PURPLE CERAMIC abrasive to remove sprues from castings, grind or shape your piece.

Also available in other grades.

REMOVE SCRATCHES & PRE-POLISH

Use 3M[™] EXL SCRATCH-ERASER abrasive to rub off scratches, scuff marks and porosity, all without removing material! Also available in other grades.

POLISH Use SEE-THRU FELT DISC for crisp, precise polishes. Use WITH compound.

POLISH DETAILS AND PLATING

Apply COMPOUND on FELT DISC & BUFFING WHEEL



details and reliefs.

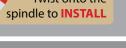
Safe for rhodium plating. Does NOT damage stones.

Use WITHOUT compound.

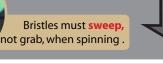
Also available in other grades.

BUFFING WHEEL (4a Item# B-9335 Twist onto the











BONUS STEP

4b

ANIE'S TIP: KEEP YOUR FINGERS CLEAN AND PROTECTED Use 3M[™] SELF-ADHERING VETRAP[™] to keep fingers and nails clean! Simply cut to size, wrap over and around. Don't overtighten so you can re-use your "finger caps"! Replacement item#: T-10G

Toll Free: 1-85-JOOLTOOL

Buy supplies at WWW.JOOLTOOL.COM



FINISH

SHAPING & POLISHING STE HARD & SOFT LAPIDARY FOR ALL STONES, MINERAL CRYSTAL, HARD GLASS



Apply CUSHIONS to BACKPADS. FLEX DIAMOND & FELT don't need cushions

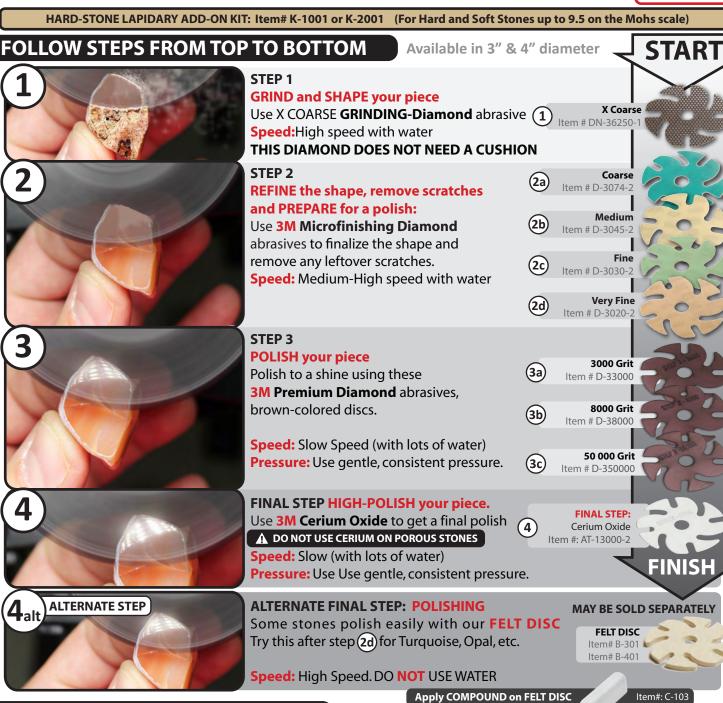


Apply abrasives onto BACKPADS (with the CUSHIONS applied).



Use Water Tray to apply water to the workpiece during every step.





TO REMOVE SCRATCHES OR CHIPS

Repairing scratched or chipped pieces is similar to working on raw (rough) material. For DEEP Scratches: Start at Step 2c, then continue up to FINAL STEP. For LIGHT scratches: Start at Step 3a, then continue up to FINAL STEP. Also try ALTERNATE FINAL STEP.

ANIE'S TIP: To avoid scratches on finished piece, follow ALL steps THOROUGHLY & inspect your piece after each step.

CLEANING: Clean abrasives with damp cloth for longer life & performance.

Toll Free: 1-85-JOOLTOOL

p.20

SOFT LAPIDARY

SHAPING & POLISHING STEP FOR SOFT STONES (under 7.5 MOHS)



Apply CUSHIONS to BACKPADS. FLEX DIAMOND & FELT don't need cushions



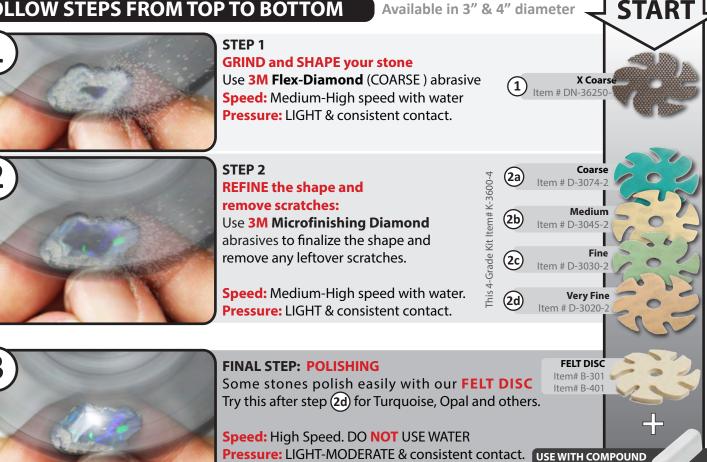
Apply abrasives onto BACKPADS (with the CUSHIONS applied).



Use Water Tray to apply water to the workpiece during every step.

SOFT-STONE LAPIDARY ADD-ON KIT: K-1002 or K-2002 (For Soft Stones: Mohs 7.5 and under)

FOLLOW STEPS FROM TOP TO BOTTOM



TO REMOVE SCRATCHES OR CHIPS

Repairing scratched or chipped stones is similar to working on rough stones. For DEEP Scratches: Start at Step 2c, then continue up to FINAL STEP. For LIGHT scratches: Often, the **FINAL STEP** is enough to get rid of light scratches.

ANIE'S TIP: To avoid scratches on finished piece, follow ALL steps THOROUGHLY & inspect your piece after each step.

CLEANING: Clean abrasives with damp cloth for longer life & performance.



Toll Free: 1-85-JOOLTOOL

Item#: C-103

FINISH

FLAT TOP DISCS FOR HARD & SOFT STONES + GLASS BOTTLES



onto the spindle of your JOOLTOOL.



With abrasive side UP, slide the disc Twist the disc onto the Spindle until locked, but do NOT overtighten.

Use Water Trav to lubricate the workpiece during every step.

4" ADD-ON KIT: Item# KF-2001



Turn the machine ON and work on the TOP ABRASIVE to shape & polish stones, bottles, etc.

START

FOLLOW STEPS FROM TOP TO BOTTOM

ANIE'S TIP: For best results, follow ALL steps THOROUGHLY & inspect your piece after each step.



DO NOT WORK ON OR SLIDE OFF THE EDGE OF DISC! **DO NOT WORK IN THE CENTER OF DISC!**



SLIDING OFF THE DISC MAY CAUSE UNWANTED STRIATIONS ON THE **FINISHED PIECE** AND MAY DAMAGE YOUR ABRASIVES



WORKING IN THE CENTER PORTION OF THE DISC MAY CAUSE INSTABILITY, UNEVEN FINISHES AND MAY PREMATURELY WEAR **OUT YOUR ABRASIVES**

CLEANING: Clean abrasives with damp cloth for longer life & performance.

Toll Free: 1-85-JOOLTOOL

FLAT TOP DISCS FOR SOFT STONES + GLASS BOTTLES



onto the spindle of your JOOLTOOL.



locked, but do NOT overtighten.

3

Use Water Tray to lubricate the workpiece during every step.



Turn the machine ON and work on the TOP ABRASIVE to shape & polish stones, bottles, etc.

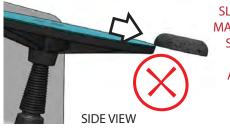
FOLLOW STEPS FROM TOP TO BOTTOM

With abrasive side UP, slide the disc Twist the disc onto the Spindle until

4" ADD-ON KIT: Item# KF-2002



DO NOT WORK ON OR SLIDE OFF THE EDGE OF DISC!



SLIDING OFF THE DISC MAY CAUSE UNWANTED STRIATIONS ON THE FINISHED PIECE AND MAY DAMAGE YOUR ABRASIVES

DO NOT WORK IN THE CENTER OF DISC!



WORKING IN THE CENTER PORTION OF THE DISC MAY CAUSE INSTABILITY, UNEVEN FINISHES AND MAY PREMATURELY WEAR OUT YOUR ABRASIVES

CLEANING: Clean abrasives with damp cloth for longer life & performance.

"FLAT" POLYMER CLAY & RESIN + FLAT PLASTIC WATCH CRYSTAL

SHAPING & POLISHING STEPS FOR FLAT PIECES

IMPORTANT: Do NOT use on pieces with sharp edges. This can increase risk of catching and tearing the abrasive

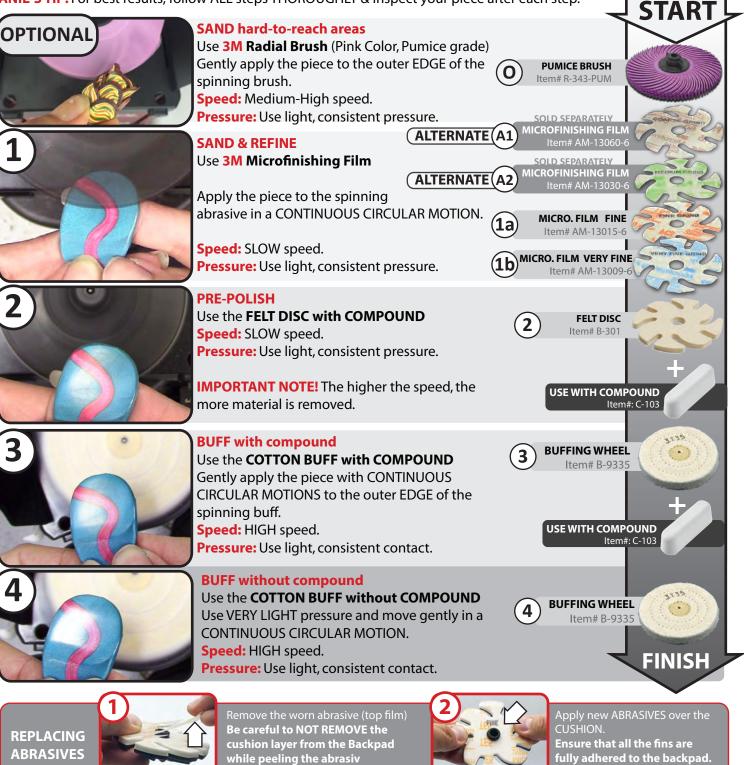
IMPORTANT: Always use COMPOUND with the same BUFFING WHEEL and keep the other BUFFING WHEEL clean

FOLLOW STEPS FROM TOP TO BOTTOM

POLYMER CLAY ADD-ON KIT: Item# K-1005 or K-2005

Available in 3" & 4" diameter

ANIE'S TIP: For best results, follow ALL steps THOROUGHLY & inspect your piece after each step.



NOTE: Your cushion may look different

"ROUND" POLYMER CLAY & RESIN + DOMED PLASTIC WATCH CRYSTAL

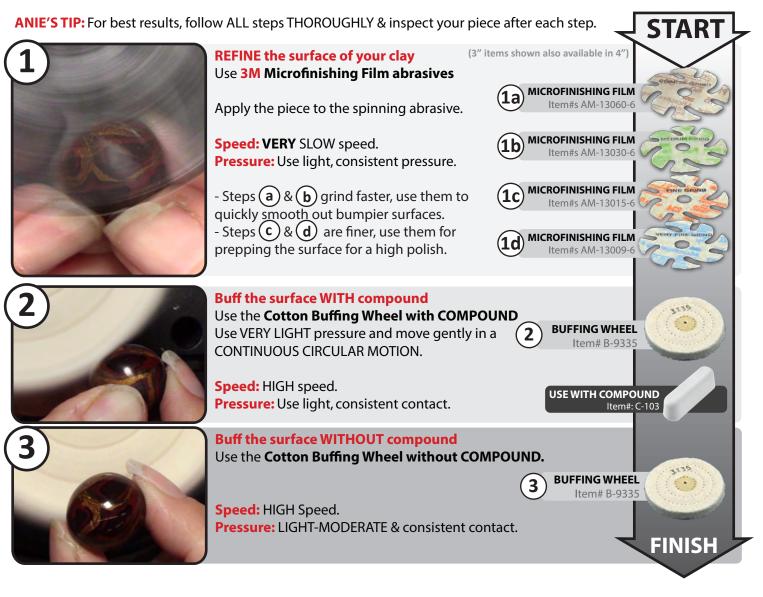
IMPORTANT: Do **NOT** use on pieces with sharp edges. This can increase risk of catching and tearing the abrasive

IMPORTANT: Always use COMPOUND with the same BUFFING WHEEL and keep the other BUFFING WHEEL clean

FOLLOW STEPS FROM TOP TO BOTTOM

POLYMER CLAY UPGRADE KIT Item# K-1005-5 or K-2005-5

Available in 3" & 4" diameter





Remove the worn abrasive (top film) Be careful to NOT REMOVE the cushion layer from the Backpad while peeling the abrasiv NOTE: Your cushion may look different



Apply new ABRASIVES over the CUSHION. Ensure that all the fins are fully adhered to the backpad.

+ WATCH CASE & BAND FINISHING

GLASS WATCH CRYSTAL FINISHING STEPS FOR GLASS* & CRISP METAL EDGES



Use Water Tray to apply water to the

workpiece during every step.



FOLLOW STEPS FROM TOP TO BOTTOM

Apply CUSHIONS to BACKPADS.

If purchased for Step 3, the FELT disc

does not need a cushion backing.

SETUP

WATCH CRYSTAL POLISHING ADD-ON KIT: Item# K-1004 or K-2004

Available in 3" & 4" diameter

IMPORTANT: Stay within your see-thru area of the disc. Avoid using the edge to prevent cutting grooves in the piece

Apply abrasives onto BACKPADS

(with the CUSHIONS applied).



* NOT for Mineral Crystal

SAPPHIRE WATCH CRYSTAL

SCRATCH REMOVAL AND POLISHING STEPS

NOTE: Certain kits may have had SETUP STEPS A & B already done for you during packaging.



Apply CUSHIONS to BACKPADS. FLEX DIAMOND & FELT don't need cushions



Apply abrasives onto BACKPADS (with the CUSHIONS applied).



workpiece during every step.



START

Coarse

Medium

Very Fine

3000 Grit

8000 Grit

50 000 Grit

Item # D-33000

Item # D-38000

Item # D-350000

FINAL STEP:

Cerium Oxide Item #: AT-13000-2

FINISH

Fine

Item # D-3074-2

Item # D-3045-2

Item # D-3030-2

Item # D-3020-

IMPORTANT! Only attempt this on a raised crystal that can make full flat physical contact with the abrasives. If the crystal is inaccessible, it will need to be removed from the case before performing these steps.

FOLLOW STEPS FROM TOP TO BOTTOM

SAPPHIRE CRYSTAL POLISHING ADD-ON KIT: Item# K-1014 or K-2009

(1a)

(1b)

(1c)

(1d)

(2a)

(2b)

(2c)

ANIE'S TIP: To avoid scratches on finished piece, follow ALL steps THOROUGHLY & inspect your piece after each step.

For Unsual, VERY DEEP Scratches: Start at Step 1a, then continue down to FINAL STEP. For DEEP Scratches: Start at Step 1c, then continue down to FINAL STEP. For LIGHT scratches: Start at Step 2a, then continue down to FINAL STEP.



Use **3M Microfinishing Diamond** abrasives SOLELY to remove very deep scratches or chips from the crystal.

Speed: Medium to High speed with water **Pressure:** Use gentle, constant contact **Motion:** Smooth orbital motion

REMOVE LIGHT SCRATCHES AND BRING UP THE POLISH

Progressively remove fine scratches and bring up the polish using **3M Premium Diamond** abrasives, the brown discs. **Speed:** Slow Speed (with lots of water) **Pressure:** Use gentle, constant contact. **Motion:** Smooth orbital motion

3

2

FINISH WITH A MIRROR-LIKE POLISH

Use **3M Cerium Oxide** to get a final polish (3)

Speed: Slow (with lots of water) **Pressure:** Use gentle, constant contact. **Motion:** Smooth orbital motion

CLEANING: Clean your abrasives regularly with damp cloth for longer life & performance.

ENAMEL / FUSED GLASS / LAMP WORK SHAPING & POLISHING STEPS



Apply CUSHIONS to BACKPADS. FELT & BUFF don't need cushions.



Apply abrasives onto BACKPADS (with the CUSHIONS applied).



SAFETY FIRST! Always wear eye and respiratory protection.

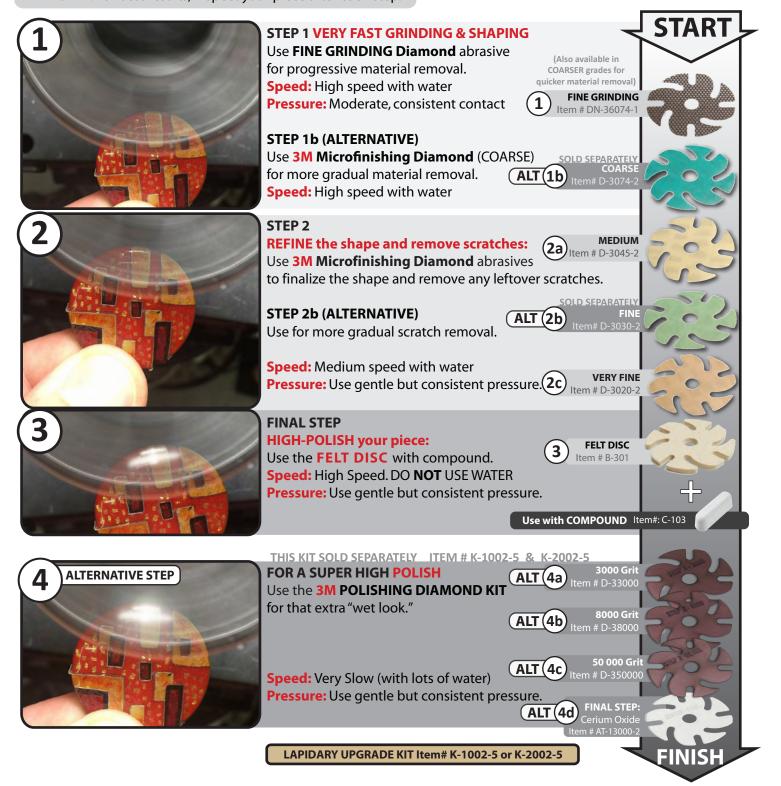
Use Water Tray to apply water to the workpiece during every step.

FOLLOW STEPS FROM TOP TO BOTTOM

GLASS & ENAMEL ADD-ON KIT Item# K-1006 or K-2006

ANIE'S TIP: For best results, inspect your piece after each step.

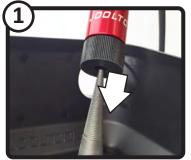
Available in 3" & 4" diameter



JOOLTOOL HD FLEXSHAFT (some items below may be sold separately)

FOR SAFETY: POWER "OFF" YOUR JOOLTOOL BEFORE INSTALLING FLEXSHAFT AND/OR ACCESSORIES

INSTALL THE FLEXSHAFT



Slide the Flexshaft Connector Hub onto the Jooltool spindle. This is similar to installing Backpads onto the Spindle.

INSTALL BITS (JOOLTOOL Handpiece)



Tighten the connector Hub firmly onto the JOOLTOOL spindle.

INSTALL/CHANGE A HANDPIECE



a: Insert the Flexshaft's Paddle (Key) Tip into Handpiece until it snaps & locks in place. b: To remove: Pull apart



Once installed, test run the JOOLTOOL at various speeds. Rotation should be smooth. If vibration occurs, turn JOOLTOOL off and re-install.



Insert the desired bit into the handpiece chuck/jaw. Note: Jaw must be opened wide enough to fit your bit.

Using the chuck key, tighten the jaw. Note: Check if the bit is centered by rotating the chuck by hand.

Part of Item# K-FH33



USE BITS (Examples)

Use small brushes for intricate sanding and polishing in hard-toreach areas.

Item# MK-07704-6

Use MINI 3M Scratch Erasers to clean ring castings and other tubular metal pieces or small items.

Item# MK-3601-3



Mount Anie's HANDPIECE HOLDER onto your JOOLTOOL and keep your FLEXSHAFT Accessories handy!

Item# H-Holder

DRILLING



Insert the desired bit into the handpiece chuck/jaw. Note: Jaw must be opened wide enough to fit your bit.



Using the chuck key, tighten the jaw. Note: Check if the bit is centered by rotating the chuck by hand.



Anie's STONE & PEARL DRILLING RESERVOIR keeps pieces lubricated as your drill in water.



Use Anie's Pearl Vise for drilling pearls straight through the guide hole.



The Pearl Vise is also great for securing small stones while drilling.

Item#V-100P

Toll Free: 1-85-JOOLTOOL

Item# V-120

Buy supplies at WWW.JOOLTOOL.COM

DIAMOND MANDREL & POPULAR ACCESSORIES

(Item availability may change at any time and without notice. For up-to-date information, visit jooltool.com)

FOR SAFETY: POWER "OFF" BEFORE INSTALLING ACCESSORIES

Please use caution, common sense and keep safety a PRIORITY!

DIAMOND SANDING MANDREL FOR METAL & STONES

Mount the abrasive



Slide the abrasive tube of your choice onto the mandrel, starting from the tip.

Note: The FELT comes permanently mounted* on a separate mandrel. (*certain markets)

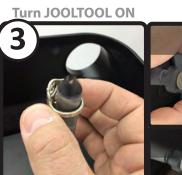
Item# ZD-8

MAGIC BUFFING WHEELS



2.1) Twist clockwise onto the Spindle of the JOOLTOOL using grip areas at the bottom of the mandrel.
DO NOT OVERTIGHTEN
(2.2) Twist

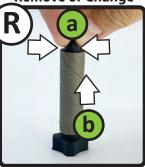
counterclockwise to



Turn the JOOLTOOL ON and enjoy quick and easy grinding, sanding and polishing inside rings, stones & more. **Note:** Mandrel can also be used while in Horizontal Mode. (p.13) GRIND



Remove or Change



Use Step **2.2** to remove mandrel from Spindle

a Pinch the tip of the mandrel then, using your other hand, slide the abrasive OFF b Restart at Step 1 to re-install another.



YELLOW MAGIC BUFF

These Yellow "Magic" Buffing Wheels work just like classic buffing wheels but provide a higher "Super Polish" without compound. Available in 3" & 4"!

Item# B-303 and B-403



PINK MAGIC BUFF

Use Anie's PINK "Magic" Buffing Wheels (3") to achieve a premium, "Hyper Polish" on metals and certain other materials. All without compound!

Item# B-305

POPULAR POLISHING ACCESSORIES



SAVE-YOUR-HANDS KIT

Anie's "Save Your Hands" Kit allows quickly transform your JOOLTOOL into a multi-functional Bit Holder. Keep two-handed control when working with small bits and delicate pieces.

Item# MK-H-1



RUNTRUE FELT POLISHING CONES

Great for polishing inside bracelets, hoops and more. They run perfectly true! Use with your favorite JOOLTOOL compound. Available in "Wide" and "Narrow" shapes.

Item# ZC-12

Visit JOOLTOOL.COM for more amazing accessories!

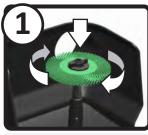
3M BRUSHES & SCRUBBY WHEELS

DO NOT USE WITH WATER

DO NOT USE WITH COMPOUND

! DO NOT USE ON STONES

INSTALL & USE



2" & 3" Brushes: Tighten the brush or Scrubby wheel on the spindle.



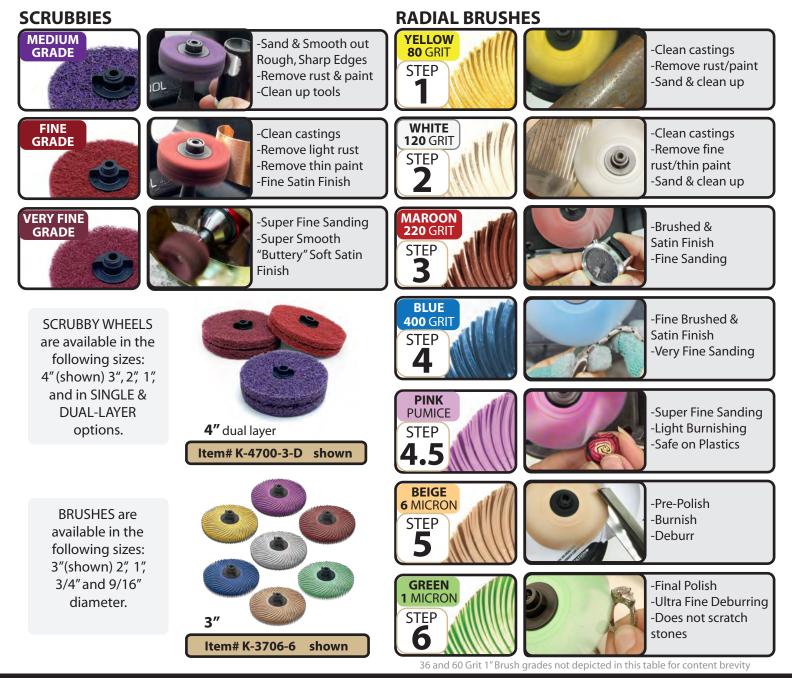
NOTE: Brush Bristles must **"sweep"** and NOT "grab" when spinning.



Use FULL speed. Apply workpiece to the OUTER EDGE with light pressure



Can be used with the FLEXSHAFT if mounted on the QUICK-SCREW BRUSH ADAPTOR (Item #Z-31)



TROUBLESHOOTING

SAFETY FIRST! Make sure JOOLTOOL power is "OFF" when performing inspection and adjustments. If you are unable to perform any of the solutions described below, contact an authorized JOOLTOOL service center

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Jooltool will not start	 JOOLTOOL not plugged in power outlet. Shut-Off Safety Feature Triggered Circuit breaker tripped 	 Plug JOOLTOOL in power outlet. Reset power adapter or Replace fuse (p. 7) Reset your local circuit breaker
Disc comes off the spindle when turned "ON".	 Disc not locked on spindle (May happen during first use of disc) Spindle thread worn out 	 Press down on disc and firmly tighten it onto the spindle (turn clockwise). Disc will self-thread. Replace spindle or use a thin hand file to lightly resharpen thread at the top half-inch of spindle. (To be performed only by JOOLTOOL professionals)
Spindle or Flexshaft Hub does not stay in position	 Spindle or Flexshaft Hub not locked on motor shaft Incompatible Spindle or Hub 	 Firmly tighten the set screw securing the Spindle or Flexshaft Hub onto the motor shaft. Replace Spindle or Hub for original Jooltool part
Vibration during use	 Improperly applied or damaged Abrasive or Cushion on Backpad Disc Incompatible accessory/wheel/disc Damaged or incompatible spindle Damaged motor shaft 	 Remove misaligned or damaged Abrasive or Cushion from Backpad disc and re-apply with proper alignement of SEE-THRU pattern. Use only original JOOLTOOL accessories Replace spindle with original JOOLTOOL spindle Send unit to JOOLTOOL-authorized service center for repair or replacement.
JOOLTOOL moves during use	 JOOLTOOL not locked onto base/dock Base not fixed onto workbench/table. 	 Ensure rear alignment pins are correctly inserted into respective holes and the HOOK on "EJECT" tab is fully locked onto JOOLTOOL body Secure the Base/Dock onto a workbench or table using screws or clamps.
Abrasives wear too quickly	1. Excessive pressure on disc during use 2. Incorrect abrasive grade or type.	1. Use light/reduced pressure when working (p. 5) 2. Use correct abrasive grade or type: use coarse abrasives for shaping and grinding, use fine abrasives for sanding/prepping, use only polishing abrasives for polishing. Use Diamond abrasives for high-carbon metals or stones of 7+ Mohs scale.
	3. Incorrect working speed.4. Insufficient lubrication (water)	 3. Adjust speed for abrasive type & workpiece. <i>Ex:</i> Use low speeds for hard stones and glass. 4. Lubricate abrasives or workpiece during process. <i>Ex:</i> Diamond abrasives require lots of water when working on hard stones. Trizact abrasives require lots of water when working on glass.
Non-uniform surface finish on workpiece	 Workpiece held immobile too long while working on the abrasive. Abrasive did not fully contact the desired area. Incorrect working speed. 	 Move piece continuously under the abrasive to change direction of grinding or polishing strokes. Make sure abrasive contacts workpiece fully. To locate the area, mark it with a permanent marker (<i>Sharpie</i>) of contrasting color and work the surface thoroughly. Marker will be erased where the abrasive contacts the surface. This is desired. Adjust speed based on abrasive & workpiece.

WARRANTY

Anie sets the highest design and quality standards on the products that bear her name. They go through a rigorous inspection to ensure that our tools give you years of reliable service.

JOOLTOOL by Anie[™] makes the following limited warranty to original consumers in the United States:

Limited One (1) Year Warranty on Parts and Labor

This limited warranty extends to the original purchaser or any person receiving this power tool as a gift from the original consumer purchaser (with proof) and to no other purchaser or transferee.

JOOLTOOL by Anie[™] warrants this power tool and its parts against any defects in materials and workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, JOOLTOOL by Anie[™] will, at its option, repair or replace a defective part or unit without charge to you for parts or labor. All we ask is that you return your JOOLTOOL to our facility. If it is determined that the problem is covered by our warranty, we'll take care of it. All freight to and from our facility is to be paid by the customer. If a replacement is necessary and your product is no longer available, a comparable product will be substituted.

The JOOLTOOL system is tested to withstand normal wear and tear, but is not indestructable and can be damaged by misuse. Our warranty, just like other warranties worldwide, will not cover wear and tear, misuse and/or abusive treatment. Misuse may include, but is not limited to, damage by vehicles, tools, people, animals, falling objects, acts of God, and using the JOOLTOOL system in any manner contrary to the warning/instruction labels and user's guide.

This shall be in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. The liability of JOOLTOOL under this warranty shall be limited solely to repair or replacement of the tool within the warranty period; and *JOOLTOOL by Anie*[™] shall not be liable, under any circumstances, for consequential or incidental damages, including but not limited to, personal injury or labor costs. This warranty document is effective as of January 1st, 2019. Manufacturing specifications are subject to change without notice.

This warranty applies to the JOOLTOOL machine unit. Abrasives and Accessories may have their own respective warranties. To ensure your complete satisfaction as a JOOLTOOL customer, certain issues can be addressed on a case-by-case basis. We guarantee a timely resolution at a fair price.

Details of your responsibility The above warranty is subject to the following conditions:

(1) You must retain your original bill of sale or provide proof of purchase.

(2) This warranty DOES NOT extend to any JOOLTOOL[™] parts that have been lost or discarded by you or to damage to the main JOOLTOOL[™] unit or parts caused by fires, misuse, accident, Acts of God (such as lightning, earthquakes, floods, etc,) fluctuations in electric mains power, improper installation, improper maintenance, or use in violation of instructions furnished by the JOOLTOOL[™] company; use or malfunction through simultaneous use of this power tool unit and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

(3) Units used and/or sold outside the U.S.A. and returned to the manufacturer for repair or replacement are subject to the current restocking fee as well as any applicable shipping fees. Packages must also be insured for their full value.

Thank you for being part of our growing JOOLTOOL community



TRAVEL TIPS

Anie designed the JOOLTOOL™ to be as compact and light as possible; which makes it a perfect companion at your favorite club meeting, trade show or wherever your projects take you. It's even compatible with 110V to 240V power outlets.

HOW TO PREPARE YOUR JOOLTOOL™ FOR TRAVEL

The tips below are provided as suggestions. Always use common sense when transporting equipment. Transportation rules, laws and regulations are different in each country and can change at any time. Always check with your transportation safety authority for travel compliance of certain items. JOOLTOOL by Anie[™] does not guarantee that any or all products meet specific travel/safety requirements. JOOLTOOL, JOOLTOOL by Anie[™] and parent/affiliate companies shall not be liable, under any circumstances, for consequential or incidental damages or losses, including but not limited to, property, personal injury, travel and/or labor costs or other losses incurred by use or misuse of the information contained herein.



ALWAYS MAKE SURE YOUR CARGO IS SECURELY FASTENED TO, OR INSIDE, THE VEHICLE.



CAR, BUS OR MOTORCYCLE

- Clean your JOOLTOOL[™] & accessories before packing.

- Roll up and contain your power adapter/cords.
- The Flexshaft attachment can be gently coiled in a smooth knot, but avoid tight bends!

ANIE'S TIP: For the best fit, protection and versatility, use my JOOLTOOL CARRY-ALL bags*.







AIRPLANE, BOAT OR OTHER MODES OF TRANSPORT

Some modes of transport require security screening before boarding. To ensure a smoother procedure:

- Remove the SPINDLE and all attachments such as the Flexshaft, Tool Rest and Knobs from the JOOLTOOL - Roll the SPINDLE, wrenches and knobs in a cloth and conveniently store in the machine's DRAWER.



ANIE'S TIP: If travelling internationally, you will only need a plug adapter for the electrical outlets you may encouter. The JOOLTOOL power adapter will automatically convert voltage as needed for the machine. If needed, replacement adapters* can be found at **jooltool.com**



ANIE'S PRO TIP:

To save even more space, remove the SPINDLE, then remove the HOOD. Flip the HOOD over and position it to "hug" the BODY of the JOOLTOOL. If equipped with the CLEAR VISOR, you can unscrew it or simply leave it open if it fits into your bag. To prevent scratches on the HOOD or VISOR, wrap them with a piece of fabric.

* Subject to availability. Actual item appearance may differ slightly from illustration.

PROJECT EXAMPLES

EXAMPLES OF MATERIALS YOU CAN WORK ON

Your SEE-THRU Abrasives allow you to grind, sand, texturize and polish any of these materials... and more!







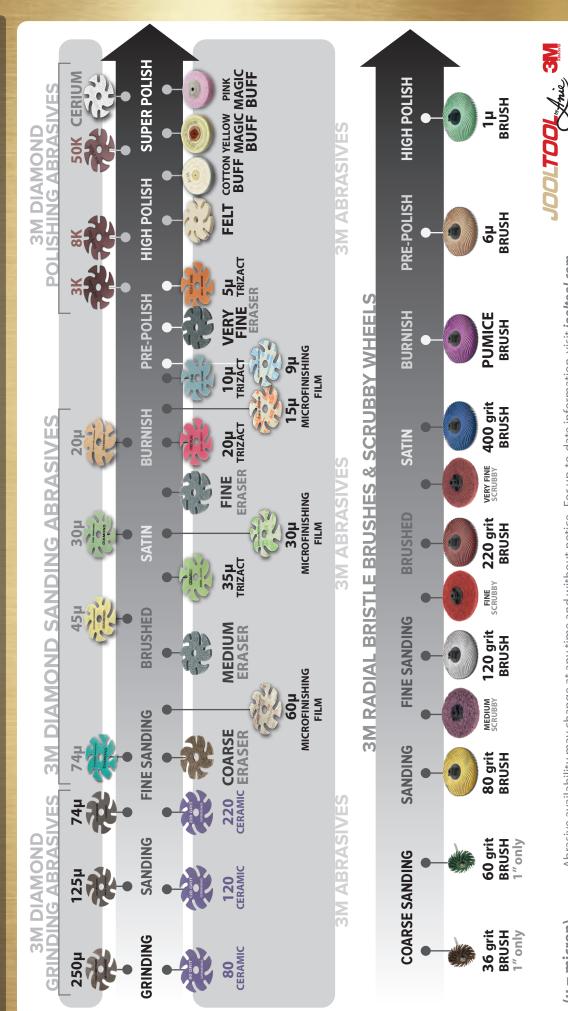


<u>ABRASIVE CHART</u>

YOUR ABRASIVES, ORGANIZED

This chart organizes your abrasives from most aggressive to most fine. It also helps you visualize the finish you can expect on your workpiece. At the left of the chart, you will find the most COARSE abrasives which are used for grinding and shaping. These leave a very rough finish At the right of the chart are your FINEST abrasives. Use these for polishing and buffing. They leave a very high luster on your pieces. The abrasives in the middle are organized respectively; the arrow depicts the steps to follow, from coarse to fine (from left to right). Use the 3M DIAMOND ABRASIVES for Stones, Glass, Enamel, High-Carbon Steels and more. The **3M ABRASIVES** below can be used on a variety of other materials.





Abrasive availability may change at any time and without notice. For up-to-date information, visit *jooltool.com* Toll Free: 1-85-JOOLTOOL $(\mu = micron)$

Need supplies? Buy them at WWW.JOOLTOOL.COM