

Made in the U.S.A.



Pyrography: The art or process of producing designs on wood, or other material using heated tools or a fine flame.



Detailier



Super Pro



Cub



Galaxy



Renaissance

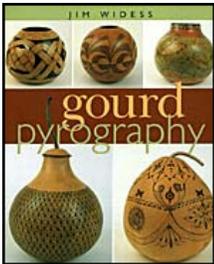
Since 1979 Colwood has supplied the art world with professional, affordable woodburning tools and accessories. With a choice of five control units and over 100 variations of 40 tip styles, Colwood can satisfy any skill level, budget, or pyrographic need.

No longer the sole province of duck and bird carvers, woodburning tools are now being used by everyone from the stamp artist to the leather worker. New materials, such as vellum, ivory, bone, eggshell, gourds, card stock, x-ray film, cork, and of course wood, work well with Colwood tools.

Colwood now stocks unfinished wood products. All of these products are made from softer, light grain woods that are suitable for burning and decorating. These boxes make great gift ideas for people of all ages. Visit our web site at www.woodburning.com/woodburning.asp and click on "Unfinished Wood Products" to see what is available.



Great Blue Heron



Burning your piece adds a unique dimension; the burned piece has more depth than if the pieces were merely painted. The picture of the owl on the left is an example of a woodburning that was also colored in. Woodburners are also very popular with gourd artists. Some gourds are very hard and require a woodburner with more power; we recommend using a heavy duty cord for generating this extra power.

Each of our products has been developed with the customer in mind. Using input from world class artists, we created and tailored our products to satisfy your most meticulous needs. Thus, Colwood tools are precise, easy-to-use, and cost effective. All our units are manufactured right in our factory in order to provide the best possible service.

Colwood also offers a full line of accessories, as well as books and instructional materials on carving and burning. Our staff is knowledgeable and friendly, so feel free to give us a call for additional information or any questions or concerns that you may have. If you have access to the Internet, please visit our web site at www.woodburning.com.

Colwood
44 Main Street
Farmingdale, NJ 07727
Tel: 732.938.5556
Fax: 732.938.9037
www.woodburning.com

How Woodburning Units Work

Virtually all of the modern woodburning units are constructed in the same manner. A transformer provides the power and is controlled by a device not unlike a light dimmer that passes the power to a handpiece cord where a burning pen and tip are attached. The transformer's purpose is to step down the voltage to a useable level that is regulated by the controller that passes the power through the cord to the handpiece and tip.

The Wattage Controversy

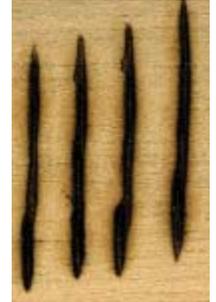
There has been a lot of misleading information concerning wattage on woodburning units. Many manufacturers make high wattage claims that are false. We have tested many of these units and have found that they all consume less than 45 watts of power, including the units claiming to deliver 130 watts max. Simply put, wattage is power; and generally speaking, more is better than less. The logical question to ask is, "How much wattage do I need?" To answer this, we conducted an experiment in our shop using a wattmeter (a device that measures power consumption), a Detailer with 18 gauge cord, and a "K" (small point). Several lines were burned with the Detailer's control knob set to 5. We were able to burn nice, crisp "toast" colored lines-- the wattmeter registered 15 watts! Next, we set the Detailer to full power. The "K" tip glowed a bright orange, ignited the wood, and burned thick, charred lines lacking the fine detail that artists require. The wattmeter registered 27 watts. With respect to woodburning, we feel that wattage rating is severely overrated. You should chose a woodburner that has the features that you require, and a price tag that fits your budget. Colwood's wide selection of control units, and handpiece cords make it easy for you to accomplish this while satisfying all your artistic needs.



Heat Setting of 5



"K" Tip



Heat Setting of 10

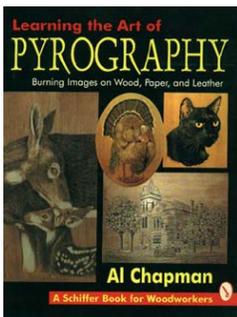


"K" tip glowing with Detailer set to max power

Learn to Burn

"Learning the Art of Pyrography"

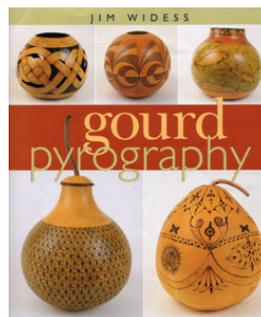
By
Al Chapman



- Methods of transferring a pattern
- How to add depth
- How to make realistic fur
- How to add shadows
- How to add highlights

"Gourd Pyrography"

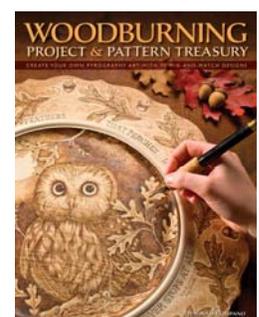
By
Jim Widess



An exciting publication displays works by 55 artists in 444 color photographs of gourds including step-by-step photographic instructions, showing three different pyrographic tools. Included is an appendix with 74 color photographs of individual pyrographic tool tips.

"Woodburning: Project & Pattern Treasury"

by
Deborah Pompano

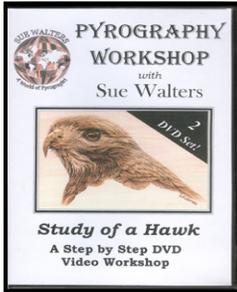


Inside this, her first book, Deborah Pompano shares techniques for getting started in woodburning. You'll learn what 5 tips she recommends, how to create a vast variety of dimension, shade and texture with your woodburner and how to develop your drawing skills for use in pyrography.

At the heart of this book is an unbelievable treasure trove of patterns. The patterns cover a wide spectrum of themes including: harvest, arbor, birds and other wildlife, seaside, clipper ship, teatime, Native American, garden, floral, lighthouse, and much more. The book includes two practice exercises, one step by step project and close up instruction on lettering.

New From Colwood

Pyrography Workshop DVD by Sue Walters



Watch and follow along as Sue Walters demonstrates how to create a bird portrait in high realism from pattern to finished picture.

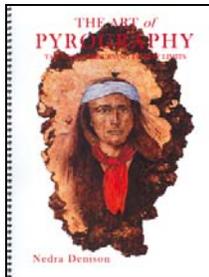
A complete instructional DVD workshop including:

- 1 hardcopy outline pattern
- 1 hardcopy texture map
- 1 hardcopy full color picture
- 2 DVD Set

Over 85 minutes One on One Training
 Bonus 20 minute chapter—An introduction to Burning including Tips and Techniques, a How To Guide, and a Guide to Trouble-shooting

The Art of Pyrography By Nedra Denison

"The Art of Pyrography, Taking woodburning to new limits" covers new and fun things you can do with a woodburner. She includes step-by-step projects burning on gourds and maple burls. There is a gallery of burnings done on unique canvas' such as paper, tagua nuts, leather, gourds, maple burls, canvas and more. Nedra includes information on each with tips for burning on the various materials in the book. There is a whole world of unique and fun things to burn! The book also contains patterns and a gallery of work on unique materials from some of Nedra's friends. We're taking woodburning to new limits and so can you. It's not just "woodburning" anymore, it's pyrography and you can experience the thrill of creating unique one of a kind pyrographic art as well!



FREE tutorial on using Colwood's woodburning tools

www.woodcarvingillustrated.com/forum/f58/acorn-wip-14232/

Sue Walters Complete Woodburning Kits

Five Kits Available:

- Chickadee and Pine
- Chipmunk on Rock
- Loon on Water
- Peregrine Falcon
- Portrait of Tiger

Each Kit Contains:

- Full step by step instruction manual (18 pages)
- One piece of select basswood
- One additional loose leaf pattern
- One piece of graphite transfer paper
- One piece of 400 grit sandpaper



Kits available with or without woodburner



Floyd Scholz Comfort Band

Developing a clean, consistent and lyrical burning style is essential in replicating subtle nuances. Translating this to a wood surface requires that thousands of fine lines must be etched in over the course of days and sometimes weeks. Determination and an ability to stay focused are key factors in seeing your work of art through to a successful conclusion.

The nemesis of the pyrographer is repetition. This can become a serious, and painful problem unless proper precautions are taken. Tendonitis, Carpal Tunnel Syndrome and muscle strain are common symptoms, which dedicated pyrographers must be aware of and frequently must cope with.

The subtle weight and pull of an electric cord, no matter how light and thin, can over time, create severe strain on fingers, wrist and forearm. Fatigue and pain are often unwelcome by-products of countless hours spent wood burning. With input from World Champion Carver, Floyd Scholz, Colwood has developed the Floyd Scholz Comfort Band to alleviate this dreaded problem. The FSCB fits easily around your forearm and gently holds the handpiece cord in place and prevents the constant tugging and pulling on the fingers and wrist.



Sally's Artist Graphite and Transfer Paper



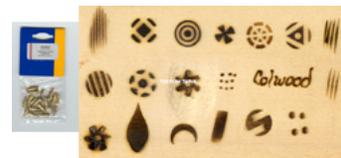
Use Sally's WAX FREE Artists Graphite Paper to transfer your design from a pattern, sketch, template or free-hand onto ANY surface: paper, wood, fabric, canvas, metal, glass, tile, ceramic, etc. Sally's leaves no wax residue, so the transfer line can be erased like pencil with any eraser; it can be washed off ceramic, glass, tile and metal. Sally's can be washed out of fabric and a hot iron will NOT set the transfer lines as with other tracing or transfer papers

New Ball Stylus Tips

These new ball tips are great for cursive writing, line, burning on tagua nuts and other miniatures and a multitude of other uses. It glides over the wood to make writing with this tool a snap. Because of its small size it is welded to the wire—rather than having a wire run through it. Available in three sizes: 1mm, 1.6mm, 2.3mm.



Craft Burner Tip Package



This Tip Package contains 19 different tip designs and styles. Typically used for shading, drawing, stamping, transferring, stamping and writing on wood and leather.

IMPORTANT: These tips can only be used with the Colwood Craft Burner #CCB25.

The Renaissance

The Renaissance is a woodcraftsman's work station comprised of a woodburning system and high speed grinding and texturing system all in one unit. The woodburning system and grinding system are operationally independent with separate on-off switches and can be used by two operators simultaneously if desired. The Renaissance's compact and multifunctional design (7 1/2"L x 5 1/4"W x 3 1/2"H) provides the carver with greater available work space. Warranty: Controller only—2 Years; Grinder Motor—6 months; Cords—1 Year.

Woodburner Features

The "Detail" burning level enables the carver to do fine feather detailing with precise temperature control over wide limits.

The "Heavy duty" burning level allows for hotter and faster burning, providing a more rapid heat recovery to the tip.



The Renaissance Workstation

Grinder Features

- **Speeds up to 35,000 rpm**
- **Soft Start**
The motor starts up slowly which increases its longevity. Unlike other controllers, Colwood's soft start technology assures that there is no sudden jolting of the handpiece which could cause it to fall from the work area resulting in damage to the motor.
- **Soft Reverse**
The motor can be reversed even when running at its maximum speed without fear of damaging it.
- **High Efficiency Power Supply**
External air is not required for cooling the electronic components—this allows for a completely enclosed unit which prevents wood dust from entering.
- **Power Boost**
When a load is applied to the motor this is sensed and the power is automatically increased to minimize a decrease in speed.
- **Includes**
One 1/8" collet
One 3/32" collet

Warranty Information

Renaissance Controller	2 Years*
Renaissance Grinder Motor	6 Months
Galaxy	4 Years*
Olympiad	2 Years*
Super Pro II	2 Years*
Detailer	2 Years*
Cub	2 Years*
All Handpiece Cords	1 Year
Fixed Tip Handpieces	3 Months
RT Handle	3 Months
RT Tips	3 Months

*Does not include handpiece cords, handpieces or tips. These items are covered under a separate warranty.

If any piece of equipment should be in need of repair, do not attempt to repair it yourself. For the warranty to remain valid ALL work must be done in our factory. When sending a unit in for repair please include a brief description of the problem and a daytime phone number.

Control Units

Precision, Versatility, Control, and Service - Qualities that describe Colwood's full line of woodburning tools and accessories. Colwood offers five control units with their own distinct features to satisfy all skill levels - the novice to the professional artist. Each unit includes a solid state controller and ultra-flex cord as standard equipment. The "guts" of all our control units are housed in a sturdy, custom "cold rolled steel" enclosure; not a generic, off-the-shelf, plastic box susceptible to melting by misplacing a handpiece, or cracking if accidentally dropped. All our units are manufactured and serviced right in our factory. Thus, we can ship virtually every order and repair within a 24 hour period.

The Galaxy

Digital display (nominal range 0-550) / 55 distinct temperature settings / Circuitry that compensates for fluctuations in line voltage / 3-Pronged AC cord and built-in fuse / Precise, solid state temperature controller / Terminal barrier for easy replacement of handpiece cord / Separate on-off switch / Clip for mounting handpieces / One ultra-flex cord (18 gauge) / Four year warranty / Tip and hanpieces sold separately



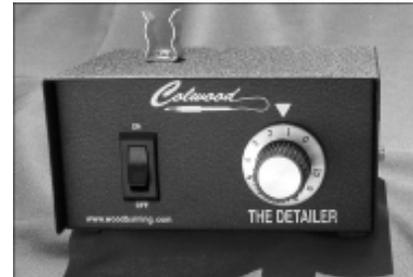
The Super Pro II

The most versatile of Colwood's line / Selectable front panel switch allowing the user to have two different tip styles set up and ready to use / Two handpiece clips for mounting handpieces / Two terminal barriers for easy replacement of handpiece cords / Lighted on-off switch / Precise solid state temperature controller / Highly visible, slanted front panel / One ultra-flex handpiece cord (18 gauge) / One heavy duty handpiece cord (16 gauge) / Recommended unit for fish carving / Two year warranty / Tips and handpieces sold separately.



The Detailer

Colwood's original woodburner / Lighted on-off switch / Precise solid state temperature controller / Terminal barrier for easy replacement of handpiece cord / Clip for mounting handpieces / Tabletop model / One ultra-flex handpiece cord (18 gauge) / Two year warranty / Tips and handpieces sold separately



The Cub

The smallest and most economical of Colwood's line / Compact and handy for travel / Pilot light / On-Off switch incorporated into the dial / Precise solid state temperature controller / Cable clamp which allows the user to suspend the unit over the work area / One ultra-flex cord (18 gauge) / Two year warranty / Tips and handpieces sold separately



The Olympiad

Widest heat range of all our units / Lighted on-off switch / Precise solid state temperature controller / One ultra-flex handpiece cord (18 gauge) / Great for heavy insertion work / Ideal for bird carvers, woodworkers, gourd artists, and plaque and sign makers / Two year warranty / Tips and handpieces sold separately



Accessories

#0100	Clip (holds handpieces when not in use)
#0150	Custom Cork
#0151	Custom Cork Heat Shield
#0150F	Foam Grip for handpieces
#0155	EZ Tip Puller
#0200	Honing Paper
#0201	Cleaning Cloth (for keeping tips clean)
#0750	18 gauge handpiece cord
#0801	16 gauge handpiece cord
#0802	14 gauge handpiece cord
#0850	Adapter Cord for Detail Master
#0851	Adapter Cord (male x female)
#0852	Razortip Adapter (Colwood tips w/Razortip)
#0860	Plastic Carrying Case
#0866	Wood Carrying Case
#3001	Hi—Temp solder 2' length
SPC0001	Saral Transfer Paper 12' Roll
SPC0020	Sally's Graphite Paper—12 sheets 18" x 24"
CCB25	Solid Point Woodburner
CCBTp	Tip Package for CCB25—19 Tips

Sue Walters Kits

Five woodburning kits available from world renown artist Sue Walters. Each kit contains: Full step by step instruction manual (18 pgs); one piece of select basswood; one additional loose leaf pattern; one piece of graphite transfer paper; one piece of 400 grit sandpaper. Each kit is also available with Colwood Craft Burner (#CCB25— pictured below) as an option.



CCB25

#SWK1	Peregrine Falcon Kit
#SWK1B	Peregrine Falcon Kit w/burner
#SWK2	Chickadee & Pine Kit
#SWK2B	Chickadee & Pine Kit w/burner
#SWK3	Chipmunk on Rock Kit
#SWK3B	Chipmunk on rock Kit w/burner
#SWK4	Loon on Water Kit
#SWK4B	Loon on Water Kit w/burner
#SWK5	Tiger Kit
#SWK5B	Tiger Kit w/burner

Books & Instructional Materials

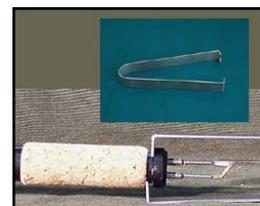
#ND1	The Art of Pyrography by Nedra Denison (Instruction; patterns, gourds) 66p b/w
#FC1	Great Book of Woodburning by Lora Irish (Instruction; beginner—advanced; projects & patterns) 191p color
#SP1	Learning the Art of Pyrography by Al Chapman (Instruction; basic techniques; project ideas; finishing) 63p b/w
#OD1	How to Woodburn Wildlife by Orchid Davis (Instruction; how to burn feathers, fur , eyes; finishing) 46p b/w
#OD2	Woodburning Western Wildlife by Orchid Davis (Instruction; western theme patterns) 55p b/w; some color
#SW3	Pyrography Workbook by Sue Walters (Instruction; A-Z woodburning; 3 projects: duck, eagle,wolf) 137p color
#SW4	Wildlife Designs by Sue Walters (All about patterns; 30 Lg designs w/line & tonal patterns; 10 borders) 103p
#FR1	Carving Patterns by Frank Russell (General carving instruction; 80 carving patterns) 127p b/w
#GP1	Gourd Pyrography by Jim Widess (Guide to woodburning on gourds) 144p color
#SW5	Pyrography Workshop—2 DVD Set by Sue Walters; 85 min. 1 on 1 training; how-to; patterns included



Wood Carrying Case



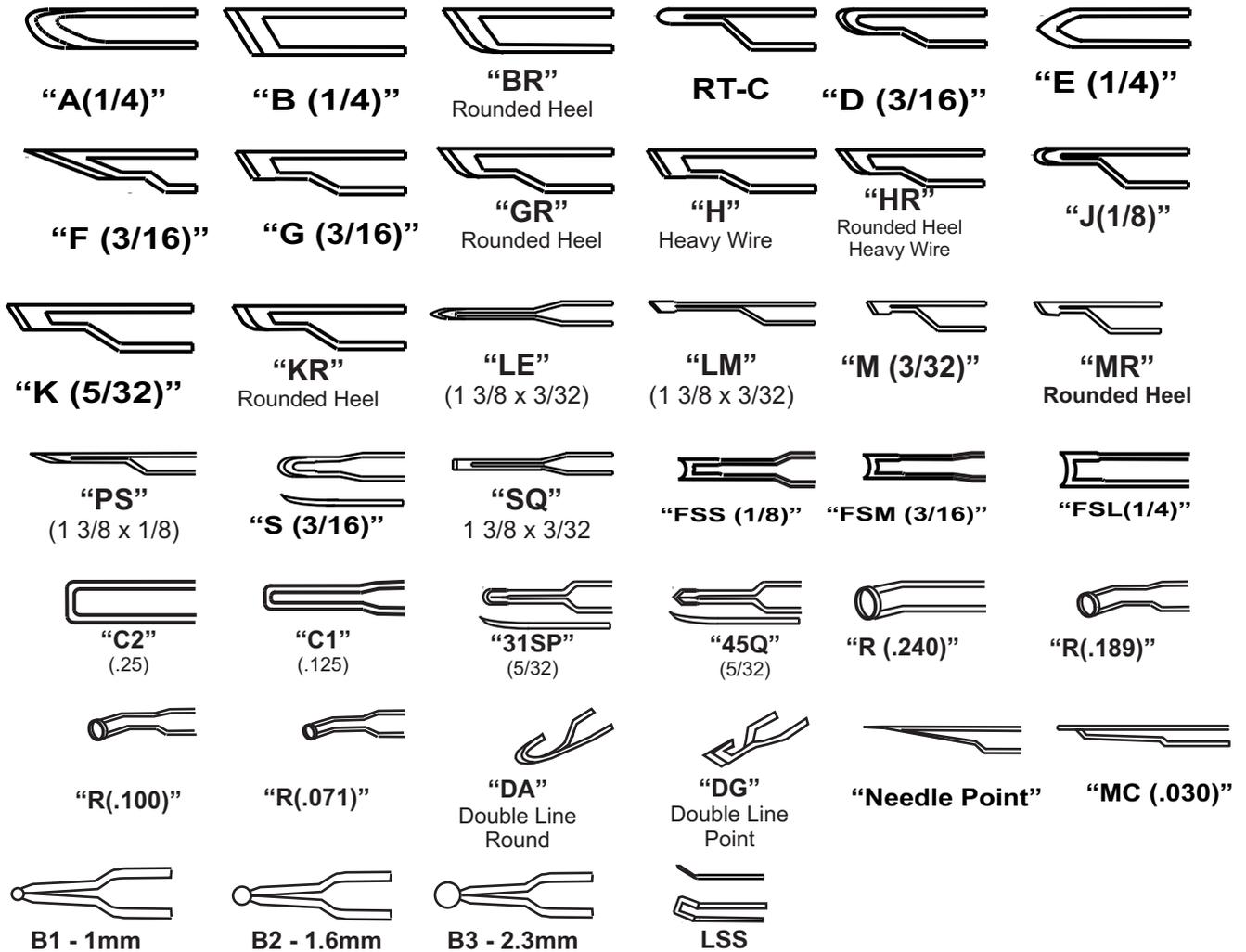
Foam Grips



EZ Tip Puller

Colwood Tip Styles

All Tip Styles Available in FT or RT System



The tip styles shown above are the most popular styles used by pyrographers. Virtually all of the styles above can be bent to 45 or 90 degrees. By using a tip bent in this fashion you may achieve different shading effects without having to put your hand in an unusual position. Custom tips available upon request. Please call or send a drawing to:

Colwood Electronics
 44 Main St.
 Farmingdale, NJ 07727
 732-938-5556
www.woodburning.com

Suggested Tip Uses

Rounded Tips A, D, J, Mini J - Used anywhere on the carving. Best for straight thin lines and concaved areas where the rounded tip helps prevent gouging.

Pointed Tips B, F, G, K - Used anywhere on the carving, especially good for thin lines on flat areas.

Styles BR, GR, HR, KR, MR - Developed at the suggestion of world class carvers. The heel has been rounded off to prevent digging into the wood.

Style C, MC - These are two writing tips used in signing your work. Style C is similar to a med-large ballpoint pen. The MC is similar to a fine ballpoint pen. Each MC is individually ground and polished. The MC is used for extremely fine writing, raising a duck bill's nostrils, indenting around a duck bill nail, carving wrinkles on birds and fish, modeling around eyes, modeling bird feet, finishing the center shaft of feathers and signing.

Special Purpose Tips DA & DG - Double line burning tips allowing you to burn two lines simultaneously.

Style E - A general burning tip shaped like a spade with symmetrical burning edges.

Style FSL, FSM, FSS - Designed to burn scales on fish. FSL - 1/4", FSM - 3/16", FSS - 1/8"

Style H - The same size and shape as the "G" tip, but made with a heavier gauge material. This tip is sharpened with a wider angle. It will burn a fine line, but does not burn as deeply into the wood as other tips.

Style LE - The "flame tip" or "Long E". A smaller, longer (1-3/8") version of the "E" tip ideally suited for smaller carvings. It has a sharp edge on both sides. Made from heavier gauge wire.

Style LM - Same shape as the "M" tip but a little longer (1-3/8")

Style M - A micro tip, especially useful on miniatures and wherever fine detail burning is desired.

Needle Point - This tip style is very similar to a sewing needle and is useful for extremely fine detail and pointillism.

Style PS - Very useful for burning in tight and hard-to-reach areas like under wings. One of Colwood's longest tips (1-3/8")

Circles - Used to burn circles. Four diameters: .071", .100", .189", .240". Burn complete circles with one impression

Styles S, SP, LSS - These are all shading tips, used for adding highlights to the work piece. The "S" is the standard and most popular of the shaders which is suitable for most applications. The "SP" is similar to a spoon shape and useful in tight areas. The "LSS" is the largest of the shaders and best for larger strokes.

Style QT (Quill Tip) - This tip is used for outlining feathers and shading.

Style SQ - Used in raising of shafts and outlining feathers. Also suited for flat burning and for raising sharp lines, shading and calligraphy.

Ball Tips - There are three sizes: B1(.039"), B2(.062"), B3(.093"). These tips are chrome ball bearings that glide effortlessly across the work area and are great for drawing, writing and burnishing.

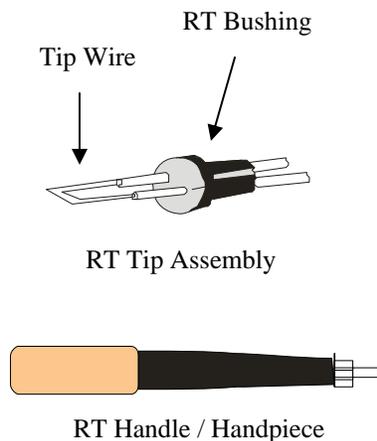
Angled Tips - Used to outline and raise feathers and shading or detailing under wings. Available in 45 or 90 degree angle. (Please specify tip angle and whether for right handed or left handed use when ordering.)

Handpiece Systems

Colwood offers two kinds of handpiece systems: the **Replaceable / Removable Tip** and the **Fixed Tip**. All tip styles are available in either system. In both systems all important connections are gold plated to reduce corrosion and enhance reliability.

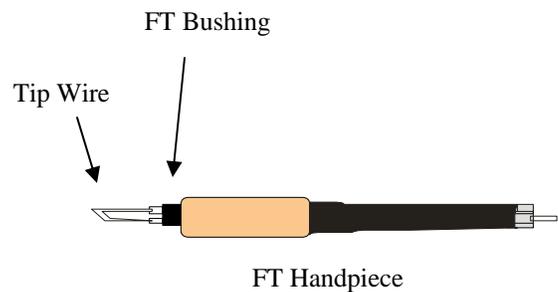
RT System

The RT system has three components: the Tip Wire, the RT Bushing and the RT Handle / Handpiece. The RT Tip Assembly comprises the Tip Wire and the RT Bushing. The Tip Wire cannot be removed from the RT Bushing, it is permanently crimped and soldered into the RT bushing which provides a more reliable and consistent burn. The RT Tip Assembly plugs into the RT Handle / Handpiece that has special gold plated connectors that ensure consistent operation. To change tip styles, just change RT Tip Assembly.



FT System

The FT system also has the three components, but they are hard wired and cannot be separated. Like the RT System, the Tip Wire cannot be removed from the FT Bushing. However, the FT System differs from the RT in that the FT Bushing cannot be removed from the Handle / Handpiece. To change tip styles the entire FT Handpiece is unplugged from the handpiece cord and replaced with a handpiece that has a different tip style.



Advantages and Disadvantages

Although both Systems provide consistent and reliable operation, there are some advantages and disadvantages to both. The biggest advantage of the RT System is price. You only have to purchase one Handle / Handpiece and each tip style is less expensive than its counterpart in the FT System. The advantage of the FT System is ease of use. Even though an EZ Tip Puller is available for the RT System, the FT Handpieces are easier to change. The RT System has one more electrical connection (RT Bushing into Handle) than the FT System. Over time this connection may become worn as a result of constant changing of tip styles, and inconsistent operation may result. Having said this, however, the RT System is far more popular; a resounding testament to its superior design over the competitor's replaceable tip system.

Note: It is recommended to have a second RT Handle as a back-up.

Instructions for Insertion and Removal of Fixed Tip Handpieces and Replaceable Tips

Fixed Tip Handpiece



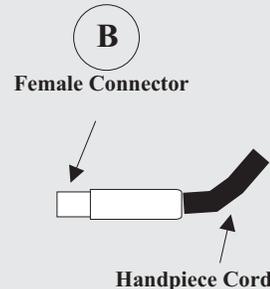
The Fixed Tip handpiece and the RT handle connect to the Handpiece cord in exactly the same manner; Male Connector inserts into the Female connector. The burning tip cannot be removed from the Fixed Tip Handpiece.

RT Handle

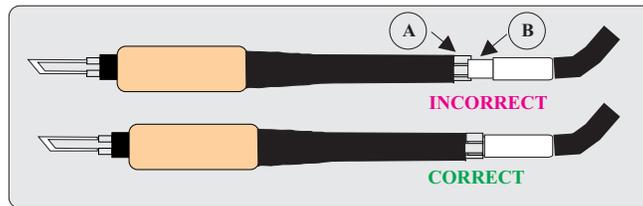


The RT Handle does not come with any tips; they must be purchased separately. See below for instructions on how to insert or remove the RT tip assembly into RT Handle.

Handpiece Cord



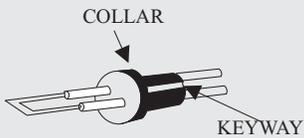
Insertion of Fixed Tip Handpiece and RT Handle into Handpiece Cord



IMPORTANT - Make sure that the Male connector "A" is pushed all the way into, and completely covers the Female Connector "B". If not fully engaged intermittent operation could result.(see picture above)

RT Tip Insertion and Removal Instructions

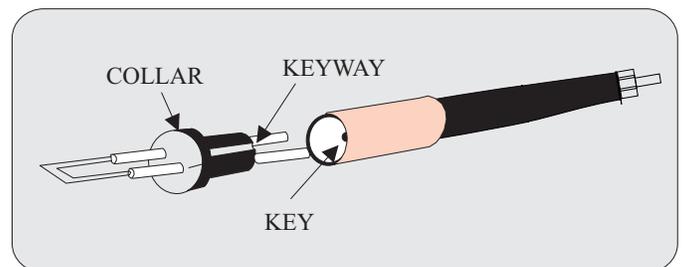
RT Tip Assembly



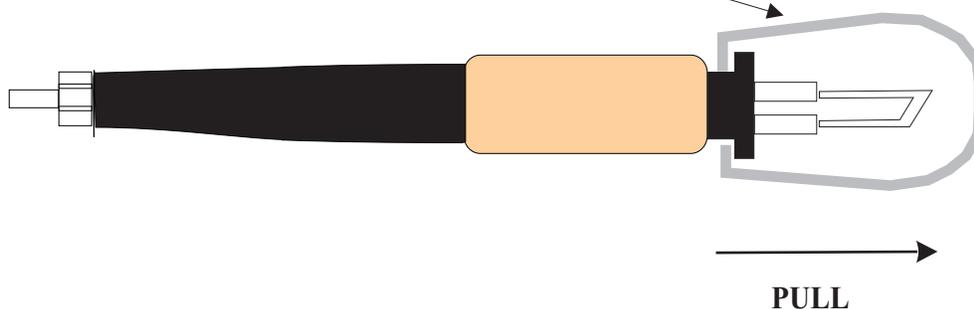
The whole RT Tip Assembly is the replaceable tip. The tip wire cannot be removed from the assembly. When you want to change tip styles just change the RT Tip Assembly.

HOW TO INSERT RT TIPS INTO HANDLE

1. Grasp tip assembly by the collar
2. Align keyway in tip with key in handpiece
3. Push tip in firmly



EZ Tip Puller



HOW TO REMOVE TIP

1. Grasp tip firmly by collar and pull out.
- OR
2. Use our EZ Tip Puller as shown to the left.