

# Cam Merkle Woodcarving



Carving and Artist Supplies 2016

## Cam Merkle Woodcarving

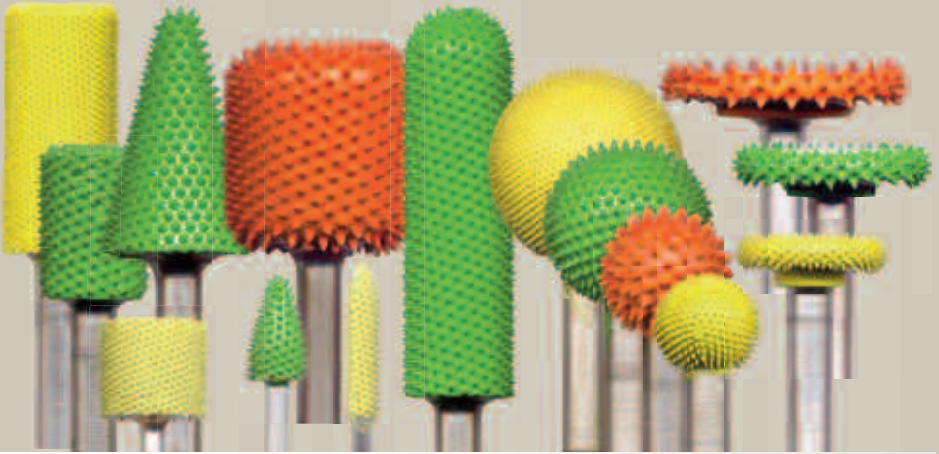
PO Box 910, 301- 9th Street North, Martensville, SK S0K 2T0  
Ph. 306-931-0889 Fax 306-242-6119 Toll-free order line 1-877-729-3787  
email: [info@razertip.com](mailto:info@razertip.com) [www.razertip.com](http://www.razertip.com)

Catalogue #21, 2016

Index on **Page 66**

Order Form between **pages 66 & 67**

# New For 2016



**SABURRTOOTH**<sup>®</sup>  
SUPERIOR POWER CARVING TOOLS

Pages 31-34



*Atelier*  
**FREE FLOW**  
ARTISTS' ACRYLIC

Page 68



**Cape Forge Knives** Page 40

Welcome to our 21st catalogue. It was over 40 years ago that I started working full-time - in a large camera department of a local drug store. I had always been interested in photography (along with wildlife, electronics and woodworking). I worked in the photo industry for over 13 years and then left the security of working for someone else so I could carve birds for a living. Many thought I was crazy, but I *had* to try it. With much hard work (and a sprinkle of luck) it worked out very well. I was reflecting recently on how the world has changed since then. In 1975 pocket calculators were new and very expensive. There were no photocopiers, computers, video recorders or cameras, fax machines, cell phones, credit cards, or toll-free numbers. A catalogue like this one would be an expensive luxury available only from very large companies. We counted inventory weekly and mailed our purchase orders to suppliers, then waited 3-4 weeks for the order to arrive. There was no Sunday shopping, and the entire city shut down every Wednesday afternoon. The pace of life was slower then.

A lot has changed since then - some for the better and some not so much. But several things have endured through the past 4 decades. One of them is the consumer's desire to get the best value for our hard-earned dollar - especially when buying tools. Getting the best value for your money has been one of the guiding principles we have operated on since I started designing, making and selling tools in 1984. I have always made sure that every item we offer, whether it's one we make or something we're re-selling, provides good value and long life. All of the new products in this catalogue were selected and added because of the value they offer.

Late last year construction started on a large expansion to our shop. Part of this expansion is a dedicated classroom space that we expect to host a variety of carving and art related groups and workshops. We expect to be moving into our newly expanded space early in the new year. Stay tuned for more details!



Cam Merkle, President

### General Information

Cam Merkle Woodcarving is a division of Razertip Industries Inc.. Hours of operation are Monday through Friday 9AM-5PM (CST). Other times available by appointment. We are closed on all Canadian holidays and the week between Christmas Day and New Year's Day. We're located at 301-9th Street North - in the north end of Martensville, Saskatchewan. Just look for two big metal buildings (one behind the other) *with black and red accent stripes*.

Prices in this catalogue are in Canadian Dollars (CAD) and are subject to applicable taxes and shipping charges (see our current order form for shipping costs). There is no minimum order size. For shipping we offer your choice of postal or courier delivery (more information on our order form). We make every effort to maintain consistent pricing for the duration of this catalogue, however, we reserve the right to change prices without notice.

*Special note: Because of recent volatility in the Canadian Dollar vs. the US dollar it may be necessary to adjust prices. Current pricing is available online at [store.razertip.com](http://store.razertip.com) or by phoning us.*

### Satisfaction Guaranty

All items we sell are covered by a "30 day money back if not satisfied" guaranty. Should you be dissatisfied with any of our products for any reason, simply return it either in person or by regular mail (with proof of delivery, please), and we will immediately provide a full refund (including the cost of mailing it back to us if requested). A brief note or explanation of the reason for the return would be appreciated. At the time of publication, all information contained herein was accurate to the best of our knowledge, however, errors and omissions may occur. We will not be responsible for such errors or omissions except where our guaranty and return policy would allow. Liability is limited to the actual cost of goods sold and does not cover consequential damages or suitability of goods for a specific purpose.

### To our Valued US and International Customers

All prices are shown in Canadian dollars (CAD). For credit card orders we will bill your card in CAD and your credit card company will automatically convert to your local currency. If you prefer to pay by cheque or money order, you may pay in USD or CAD. Please call if you're not sure.

### On the Front Cover and Page 101:

"**Forbidden Fruit - Carolina Parakeets**" ©2014 Cam Merkle.

Miniature Carolina Parakeets on Apple Tree - Oil on Holly, Brass and Epoxy.

Entered in World Miniatures Division, 2014 Ward World Championships,

# Power Carving Tools

We are your power carving specialists. Whether you're looking for a heavy rotary tool for fast rough-out work, a micromotor tool for finer work or an ultra-high speed turbine for extremely delicate work, we can meet your needs. We also have a great selection of burs of all types. Not only do we sell a great selection of tools and burs, but we service most of them right here in our shop, for fast turn-around and unmatched convenience. Not sure what tool is best for you? Give us a call - our expert advice is always free!

## Best Value Micromotor: Maxima 40

Reasonably priced and offering excellent "bang for the buck", the Maxima 40 runs smoothly and quietly up to speeds of 40,000RPM, and the smaller handpiece has great balance and feel. The Maxima 40 is supplied with a variable-speed foot control, 1/8" collet and a quick-change 3/32" collet adapter, a rubber handpiece cradle, extra fuse, extra motor brushes and it comes with our unconditional one year warranty that covers everything (including bearings!).

<b>Maxima 40 Set</b> with 1/8" collet and 3/32" collet adapter # RK40	<b>\$499.95</b>
<b>Handpiece only</b> with 1/8" collet and 3/32" adapter # RH4018	<b>\$359.90</b>
<b>Handpiece only</b> with 3/32" collet # RH4032	<b>\$330.00</b>
<b>Replacement motor brushes</b> # RLBURSH	<b>\$11.50</b>
<b>Rubber Handpiece Cradle (replacement)</b> # RRC-02	<b>\$9.50</b>
<b>1/8" Collet</b> #RCOL18-4501 or #RCOL18-PHP40	<b>\$62.50</b>
<b>3/32" Collet</b> #RCOL332-4501 or #RCOL332-PHP40	<b>\$62.50</b>
<b>1/8"-3/32" Collet Adapter</b> (as supplied with RK40) # R18-332	<b>\$29.90</b>
<b>1/8"-1/16" Collet Adapter</b> # R18-116	<b>\$29.90</b>

Collet Adapters let you use 3/32" or 1/16" bits in a 1/8" collet. The 3/32" is the same high quality adapter that is supplied with our new machines. It will work on most makes of Micromotor; saves time as changing of collets is no longer required. Provides excellent bit concentricity. **\$29.90 ea.**



# R18-332 1/8" to 3/32"



# R18-116 1/8" to 1/16"

**Maxima 40**  
40,000RPM  
Micromotor Set  
# RK40



**Servicing what we sell:** Should your Maxima, Grande or Mobile machines ever need servicing, we do it right here (including warranty claims!) - you'll get the same quick turnaround and guaranteed service you've come to expect from us. If you're more of a do-it-yourselfer, we can supply the parts and advice you need to perform some of your own repairs.

# Power Carving Tools

## Torque Upgrade: Maxima 80

Using the same handpiece as the Maxima 40, the Maxima 80 offers an upgraded power supply for unmatched torque - up to 30% more torque than the Maxima 40. The all-metal case and heavier control circuit/transformer are designed to give you many years of service even with extensive use. The Maxima 80 is supplied with a variable-speed foot control, 1/8" collet and a quick-change 3/32" collet adapter, a rubber handpiece cradle, extra fuse, extra motor brushes and it comes with our unconditional one year warranty that covers everything, including bearings.

<b>Maxima 80 Set with 1/8" collet, and 3/32" collet adapter # RK48</b>	<b>\$699.95</b>
<b>Handpiece only with 1/8" collet and 3/32" adapter # RH4018</b>	<b>\$359.90</b>
<b>Handpiece only with 3/32" collet # RH4032</b>	<b>\$330.00</b>
<b>Replacement motor brushes # RLBRUSH</b>	<b>\$11.50</b>
<b>Rubber Handpiece Cradle (replacement) # RRC-02</b>	<b>\$9.50</b>
<b>1/8" Collet #RCOL18-4501 or #RCOL18-PHP40</b>	<b>\$62.50</b>
<b>3/32" Collet #RCOL332-4501 or #RCOL332-PHP40</b>	<b>\$62.50</b>
<b>1/8"-3/32" Collet Adapter (as supplied with RK40/48) # R18-332</b>	<b>\$29.90</b>
<b>1/8"-1/16" Collet Adapter # R18-116</b>	<b>\$29.90</b>



**Maxima 80**  
40,000RPM  
Micromotor Set  
# RK48

# Power Carving Tools

## Ultimate Portability: Mobile 1

This is a truly portable micromotor. Its built-in rechargeable battery will provide up to 140 minutes of use. It can also be plugged in and used directly on 120-220V wall current. The handpiece has a 3/32" collet and is lightweight, comfortable and very smooth to use. There's even a soft pouch case that allows you to wear the unit over your neck or shoulder. Complete kit is supplied with a variable-speed power controller with forward and reverse, power cord/charger, 33,000RPM handpiece, foot control, handpiece cradle, soft pouch case and custom-fitted metal carrying case. One-year unconditional warranty covers everything except the batteries.

**Mobile 1 Set w/ 3/32" collet # RKP33 \$449.95**



**Mobile 1**  
33,000RPM  
Portable  
Micromotor Set  
# RKP33

**Servicing what we sell:** Should your Maxima, Grande or Mobile machines ever need servicing, we do it right here (including warranty claims!) - you'll get the same quick turnaround and guaranteed service you've come to expect from us. If you're more of a do-it-yourselfer, we can supply the parts and advice you need to perform some of your own repairs.

# Power Carving Tools

## Low Price: Freedom 1070 Micromotor Kit

Great features and value in a lower-priced micromotor tool. Features speeds up to 38,000RPM with forward and reverse. Includes controller, handpiece with 3/32" collet, variable-speed foot control, handpiece cradle, collet wrenches, spare motor brushes and fuse. Will operate on 120V or 220V current using the built-in selector switch. Optional on-off foot control available separately. 2-year limited Freedom warranty.

# FORK1070 **\$552.50**

### Additional accessories for the Freedom 1070:

On-off foot control # FORHP4-927 **\$40.56**  
1/8" Collet # FORHP4-117B **\$42.25**



## Superb Quality: NSK Power Carving Tools



Without a doubt some of the highest quality tools made come from NSK Japan. NSK tools feature lots of torque and incredibly smooth, vibration-free operation. They are built to outlast any other similar tool. Other features include quick-release bit change lever, easy to change collets and excellent constant speed control even at low RPM's. We have been using an NSK Electer in our shop since 1985 and have yet to find anything that can top its quality (although we are *very* impressed with our Maxima and Grande machines).

### NSK EVO

The EVO features a digital controller that allows you to dial in the RPM's from 1,000 to 40,000. The digital control circuitry has touch-sensitive switches and the ability to change motor direction with one touch of a switch, even with the motor running at full speed! The motor (handpiece) also has an on-off switch built into it, so you can turn the motor on/off right at the handpiece. The controller will accept two handpieces (one is supplied with the unit). Supplied with 1/8" and 3/32" collets, one handpiece holder and a rubber handpiece cradle. 6-month NSK Warranty.

**NSK EVO w/ one handpiece and 2 collets (1/8" and 3/32") # NSKEVO Please call for price\***

**Replacement motor brushes** for NSK motor (EVO, EMAX or GX) #NSKBRUSH **Please call for price\***

**Replacement nose piece IH300** fits on EVO, GX or EMAX motor. # NSKIH300 **Please call for price\***

**Collet** for GX, EMAX or EVO (choose from sizes below - special order approx. 2 weeks)

1/16" # NSKCOL16      3/32" # NSKCOL32      1/8" # NSKCOL18

**Please call for price\***

We stock many NSK bearings, dust seals and armatures, and we can service your NSK handpiece in-house. Other replacement parts for NSK products are available by special order. Call for pricing and delivery.

\*NSK does not allow dealers to advertise prices on their tools. Please call or email us for current pricing. We sincerely regret any inconvenience this may cause.

# Power Carving Tools

## *Cam's Favorite:* Grande Micromotor

- Brushless motor
- Ceramic bearings
- Digital full-torque speed control
- More torque than any other micromotor
- Unbelievably quiet (at low speeds you can't hear it running)
- Incredibly smooth and vibration free
- Variable speed from 1,000 to 50,000RPM
- Instant forward/reverse direction changes
- Can be operated hands-free with unique "cruise" feature
- Also accepts a second "brush" type handpiece (eg. Maxima)
- Comes with our two-year unconditional warranty

Supplied with:

- 1/8" quick-release collet
- 3/32" quick collet adapter
- Variable-speed foot control
- 30-piece diamond bur set
- Side-mount handpiece cradle
- Extra fuse.

# RK50  
**\$949.00**





# Handpiece Comparison

All handpieces below are shown actual size to help you determine which one would best suit your needs. If you're still not sure, give us a call and we can work with you to determine your best choice.

## Micromotor Handpieces



# Foredom™ Power Carving Tools

If you are going to buy a flex-shaft tool, buy the best - Foredom. As a Foredom dealer and service depot, we can meet all of your power carving needs. We service what we sell. We also stock bearings and lots of other repair parts. If you don't see it here, give us a call - we would be happy to quote you on any Foredom product. (manufacturer's website: [www.foredom.com](http://www.foredom.com))

## Foredom 1/6HP Hang Up Woodcarving Kit Model 5240



Free DVD  
with woodcarving  
kits #5200, 5240,  
5300 and 5400

**Fur, Feathers & Fins  
by Frank Russell**  
(DVD is also available  
separately - see [page 97](#))

Includes  
Free DVD!

Foredom's most popular motor, the 1/6HP SR motor has loads of power and speeds up to 18,000RPM. This kit includes an SR reversible motor, #44T handpiece, 3 collets, foot control #FCT and a 27-piece woodcarvers pro accessory kit complete with rotating bur holder. Free DVD included. 2-year warranty, CSA approved.  
# FOR5240 **\$364.00**



**\$364.00**

(over \$481.00 value)

## Foredom Deluxe 1/6HP Hang Up Woodcarving Kit Model 5200



Includes  
Free DVD!

Deluxe version of the 5240 kit (above). Includes everything in the 5240 kit, plus a #28 handpiece with two collets, safety glasses and an upgraded heavy-duty metal foot control #SCT. Free DVD included. 2-year warranty. CSA approved.  
# FOR5200 **\$494.00**



**\$494.00**

(over \$585.00 value)

# Foredom™ Power Carving Tools

## Foredom 1/6HP Bench-Mount Woodcarving Kit Model 5300

**\$429.00**

(over \$507.00 value)

Includes  
Free DVD!



Foredom's most popular motor is also available as a bench-mount kit. This kit includes a 1/6HP SR reversible motor mounted on a speed-control base, #44T handpiece, 3 collets and a 12-piece woodcarvers accessory kit. Free DVD included. 2-year warranty, CSA approved. # FOR5300 **\$429.00**

## Foredom 1/3HP Woodcarving Kit Model 5400

For the carver who needs lots of power at various speed ranges. The 1/3HP TX motor is a powerful DC motor that provides smooth acceleration at speeds up to 15,000RPM, with high torque at all speeds (*please note that TX motors do not have reverse*). Supplied with a 1/3HP TX motor, standard shaft and sheath, foot control #SXR, #44T Handpiece with 3 collets (1/4", 1/8", 3/32"), 47 piece accessory kit, 2 rotating bit holders, wrench and shaft grease. Accepts all standard Foredom handpieces. Free DVD included. 2-year warranty, CSA approved. # FOR5400 **\$481.00**

**\$481.00**

(over \$611.00 value)

Includes  
Free DVD!



## Foredom Hang Up Chisel Carving Kit Model 2252

Ideally suited for chisel carving, this dream kit is smooth, quiet and powerful. The series LX motor is a high-torque, low RPM motor that offers more torque than you'll ever need, with a maximum speed of 5,000RPM. Included in the kit is a table-top speed control for the LX motor, a model FOR50 chisel handpiece and 3 chisel sets with a total of 17 chisels. Also includes flex shaft grease and an accessory tray. 2-year warranty, CSA approved. # FOR2252 **\$487.50**

**\$487.50**

(over \$559.00 value)



# Foredom™ Power Carving Tools

## Foredom 1/6HP Industrial Kit Model SRH440

The SRH440 kit gives you the versatility of a reversing SR motor combined with extra-heavy industrial shaft strength. While the shaft is a bit stiffer than a standard Foredom shaft, it provides significantly more strength for heavy applications like stone and antler carving, or just for serious hogging-out in all types of wood. Includes motor, shaft, special #44HT handpiece, 3 collets (1/4", 1/8", 3/32"), foot control #SCT and a 10 pc. accessory kit. Will also accept #28HT and #30HT handpieces (see [page 13](#)). Note: standard Foredom handpieces will not fit on this unit.

CSA approved, 2 year warranty. # FORSRH440 **\$409.50**

**\$409.50**

(over \$468.00 value)



## Foredom 1/3HP Industrial Kit Model TXH440

More powerful than any other flex shaft tool. Supplied with special handpiece #44HT, heavy-duty shaft and sheath, 3 collets (1/4", 1/8", 3/32"), foot control #SXR and a 10-piece accessory kit. 15,000RPM. This is a great tool for stone and antler carvers. **PLEASE NOTE:** TX motors **do not have reverse**. The TXH440 and SRH440 will only accept series HT handpieces (#28HT, #30HT and #44HT), as well as special square-drive shafts and sheaths. They are not interchangeable with regular Foredom accessories. Call if you are not sure which kit is best for your application.

CSA approved, 2 year warranty. # FORTXH440 **\$494.00**

**\$494.00**

(over \$533.00 value)



## Accessories and Repair Parts

Motor Model	Maintenance Kit	Motor Brushes (per pair)	Inner Shaft	Outer Sheath	Motor Sheath Connector
CC, DD, MM (1/10HP)	<b>FORMK9</b> \$28.54	<b>FORMP119P</b> \$14.30	<b>FOR93</b> \$15.60	Standard Sheath <b>FOR77</b> \$22.04	<b>FORUA111P</b> \$8.45
R, RB	N/A	<b>FORMP117P</b> \$14.30		OR	
S, SR 1/8HP	<b>FORMK8</b> \$28.54	<b>FORMP2019P</b> \$14.30		Neoprine Sheath <b>FOR77N</b> \$23.40	
S, SR 1/6HP	<b>FORMK10</b> \$28.54	<b>FORMP132P</b> \$14.30			
TX, LX	<b>FORMK16</b> \$35.49	<b>FORMP319P</b> \$20.15			
TXH, SRH	N/A	<b>FORMP319P</b> \$20.15	<b>FOR10823</b> \$25.35	<b>FOR10801TX</b> \$58.50	N/A
H 1/4HP	N/A	<b>FORMP2019P</b> \$14.30	<b>FOR10805</b> \$24.05	<b>FOR10802A</b> \$58.50	N/A
All Shafts	Shaft Lube (grease) 1 oz. tube # <b>FORMS10006</b> \$6.37				
General Lube	Foredom Motor and Handpiece Oil in small hypodermic dispenser # <b>FORMS10005</b> \$6.83				

**Maintenance Kits:** Include brushes, shaft, grease, instructions.

**Inner Shafts:** This is the part that is designed to break if the cutter suddenly stops - kind of a weak link to prevent motor damage. It's a good idea to always have a spare on hand.

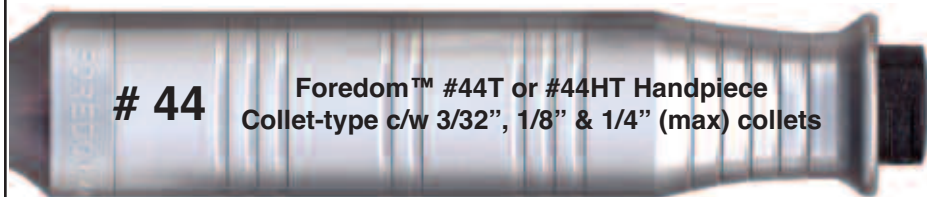
**Outer Sheaths:** Standard sheaths (FOR77) are wire-wound - tough, but a bit less flexible. Neoprine sheaths (FOR77N) are somewhat more flexible. Any machine that will accept one will accept the other.

**Motor Sheath Connector:** The piece that connects the motor to the sheath. Note: attaches to the motor with a left-hand thread. Be sure to turn the connector "backwards" to a normal thread when removing and installing.

**Our in-stock selection of parts also includes switches, armatures, handpiece bearings, motor bearings, brushes, screws, springs, washers, field coils, bushings, oil wicks and more! We service handpieces and motors, from bearing replacement to complete rebuilds. We carry a good stock of Foredom repair parts and we can order most any part you need if we don't have it in stock.**

# Freedom™ Power Carving Tools

## Freedom Handpieces (all shown actual size)



**# 44**

**Foredom™ #44T or #44HT Handpiece**  
Collet-type c/w 3/32", 1/8" & 1/4" (max) collets

Supplied with 1/4", 1/8" and 3/32" collets. Extra collets available (see below).

# FOR44T (fits most Foredom flex shafts i.e S, SR, TX, etc.) **\$84.44**

# FOR44HT (fits only Foredom Heavy-duty flex shafts i.e TXH440) **\$88.34**



**# 43**

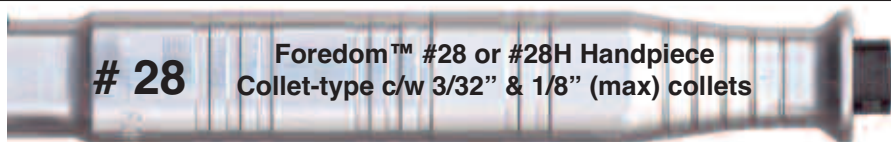
**Foredom™ #43T**  
Handpiece

Short version of 44T for use in tighter spaces. Supplied with 1/4", 1/8" and 3/32" collets.

Extra collets available (see below).

# FOR43T (fits most Foredom flex shafts) **\$84.44**

**Collets for #43T, #44T, #44HT or #44 handpiece: \$11.70 ea:**  
3/32" - #FOR442    1/8" - #FOR443    5/32" - #FOR444    1/4" - #FOR447



**# 28**

**Foredom™ #28 or #28H Handpiece**  
Collet-type c/w 3/32" & 1/8" (max) collets

Slim handpiece with tapered end. Supplied with 1/8" and 3/32" collets. Accepts bits up to 1/8".

# FOR28 (fits most Foredom flex shafts i.e S, SR, TX, etc.) **\$84.44**

# FOR28H (fits only Foredom Heavy-duty flex shafts i.e TXH440) **\$88.34**



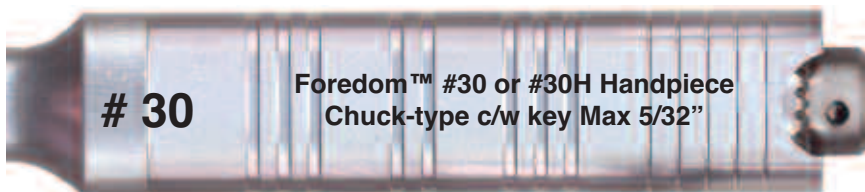
**# 8**

**Foredom™ #8 Handpiece**  
Collet-type c/w 3/32" & 1/8" (max) collets

Original slim handpiece with sliding guard. Supplied with 1/8" and 3/32" collets.

# FOR8 (fits most Foredom flex shafts i.e S, SR, TX, etc.) **\$84.44**

**Collets for #28, 28H or #8 handpiece: \$11.05 ea.**  
1/32" - #FOR601    1/16" - #FOR602    3/32" - #FOR603    1/8" - #FOR604



**# 30**

**Foredom™ #30 or #30H Handpiece**  
Chuck-type c/w key Max 5/32"

Chuck-type handpiece. Accepts cutters up to 5/32" (4mm) diameter. No collets needed.

# FOR30 (fits most Foredom flex shafts i.e S, SR, TX, etc.) **\$84.44**

# FOR30H (fits only Foredom Heavy-duty flex shafts i.e TXH440) **\$97.44**

# Freedom™ Specialty Handpieces

## Turn your Freedom into a power chisel carver!



Carves wood like a hot knife through butter! Uses Freedom Stainless steel chisels (below) or Flexcut® chisels. Freedom chisels can also be used in other power carvers like Proxxon, etc. Fits on all standard Freedom shafts. Use only in "forward" motor direction. Max speed 18,000RPM, Optimum speed 1,000-8,000RPM. Use of Freedom's bench-top speed control # FOREM1 recommended. This is a very comfortable and useful tool.

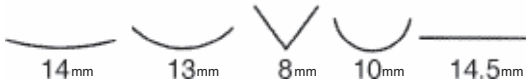
**Handpiece w/ lube, wrench and FORAKHK550 6-chisel set # FORH50C \$110.50**  
**Handpiece only w/ lube and wrench (no chisels) # FORH50 \$71.50**

**Chisel Handpiece Grease** 1/2 oz tube. Keeping chisel handpiece lubricated will assure long operational life. # FORMS10008 **\$7.15**

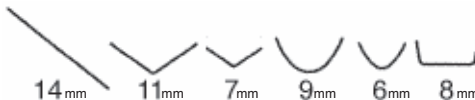
Set of 6 Small Chisels # FORAKHK550 **\$64.03**  
 #11x3.5mm sweep; #7x8mm sweep; #3x9mm sweep;  
 70 degree 5.5mm "V"; 9mm chisel; 9mm skew.



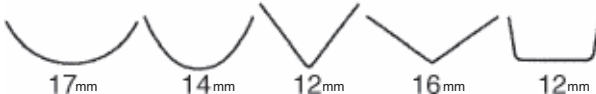
Set of 5 Large Chisels # FORAKHK560 **\$64.03**  
 #3x14mm sweep; #7x13mm sweep; 70 degree 8mm "V";  
 #8x10mm sweep; 14.5mm chisel.



Set of 6 Medium Chisels # FORAKHK570 **\$73.32**  
 14mm skew; 110 degree 11mm "V"; 110 degree 7mm "V";  
 #9x9mm sweep; #9x6mm sweep; 8mm fluteroni



Set of 5 Large Chisels # FORAKHK580 **\$73.32**  
 #7x17mm sweep; #9x14mm sweep; 75 degree 12mm "V";  
 110 degree 16mm "V"; 12mm fluteroni.



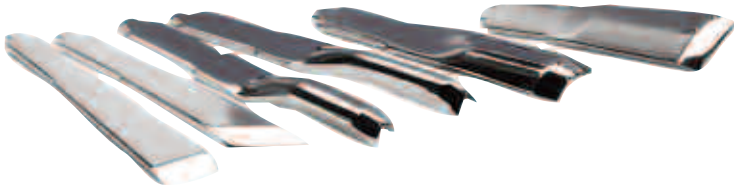
**Set of 12 Chisels** includes all chisels in AKHK550 and AKHK560 plus the 8mm Fluteroni and a canvas pouch to hold all 12 chisels. # FORAKHK510 **\$109.85**



See next page for individual chisels.

# Foredom™ Specialty Handpieces (cont.)

## Individual Chisels for Foredom Chisel Carver Handpiece



#3 Sweep x 9mm #FORAKC503 \$11.64	#9 Sweep x 14mm #FORAKC723 \$16.38	#1 Chisel x 9mm #FORAKC509 \$11.64
#3 Sweep x 14mm #FORAKC501 \$14.95	#11 Sweep x 3.5mm #FORAKC505 \$11.64	#1 Chisel x14.5mm #FORAKC511 \$14.95
#7 Sweep x 8mm #FORAKC504 \$11.64	70 Deg. "V" 5.5mm #FORAKC506 \$11.64	#2 Skew x 9mm #FORAKC510 \$11.64
#7 Sweep x 13mm #FORAKC502 \$14.95	70 Deg. "V" 8mm #FORAKC507 \$14.95	#2 Skew x 14mm #FORAKC512 \$14.95
#7 Sweep x17mm #FORAKC718 \$16.38	75 Deg. "V" 12mm #FORAKC717 \$16.38	8mm Fluteroni #FORAKC515 \$14.95
#8 Sweep x10mm #FORAKC508 \$14.95	110 Deg. "V" 7mm #FORAKC516 \$11.64	12mm Fluteroni #FORAKC721 \$16.38
#9 Sweep x 6mm #FORAKC517 \$11.64	110 Deg. "V" 11mm #FORAKC513 \$14.95	Roll-up Canvas Pouch
#9 Sweep x 9mm #FORAKC514 \$14.95	110 Deg. "V" 16mm #FORAKC722 \$16.38	(holds 12 chisels) #FORAKC500 \$29.70

## Foredom™ 2" Angle-grinder Attachment



### Foredom's versatile 2" angle grinder

is a compact, lightweight and easy to manage attachment for working on virtually any material using 2" and smaller accessories. This quality-machined angle grinder fits all Foredom #30 handpieces (30, 30H, 30SJ). It is available in a kit with or without a handpiece. Kit includes an Angle Grinder Head with short hub and 120 grit flap wheel installed; tools and drive pin to attach the grinder to any #30 handpiece; a long hub and mounting hardware for 3/8" arbor hole wheels; a 2" rubber disc mandrel and 5 assorted sanding discs, a sanding screen and velcro discs for attaching discs. One year warranty.

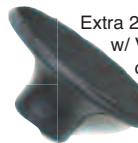
Kit with #30 handpiece # FORAK69130 **\$220.94**

Kit without handpiece # FORAK69110 **\$155.94**



Kit # FORAK69110

Extra 2" Rubber Disc Mandrel w/ Velcro face. Use with velcro discs and PSA sanding discs (next page). #FORA69222 **\$7.15**



# Accessories for 2" Angle Grinder

Items contained in the kits below will fit the mandrel and hubs supplied with the grinder attachment. Extra hubs and mandrels are available for convenience, but it is not necessary to purchase extras when ordering a kit.



- 60-Pc. Wood Carving Kit # FORAK6903 \$103.94**  
 1 - 2" Round Face Coarse Typhoon Disc,  
 1 - 2" CeramCut Blue Abrasive Wheel,  
 1 - (pkg of 6) 2" Radial Bristle Discs, 80 grit,  
 5 - 2" Sanding Screens 1 ea: 60, 120, 240, 320, and 600 grit,  
 4 - (pkgs of 5ea.) 2" Aluminum Oxide Sanding Discs: 60 grit, 80 grit, 120 grit, 220 grit,  
 1 - (pkg of 25) 2" PSA Velcro Discs,  
 2 - Disc Protector Pads



- 20-Pc. Stone Carving Kit # FORAK6901 \$102.64**  
 1 - 2" Flexible Diamond Sanding Disc, 60 grit,  
 6 - 2" Diamond Microfinishing Sanding Disc, 1 each: 125 micron/120 grit,  
 74 micron/220 grit, 45 micron/320 grit, 30 micron/400 grit,  
 20 micron/600 grit, 9 micron/1,200 grit,  
 1 - 2" Diamond Lapping Film Disc, 3 micron/4,000 grit  
 2 - 2" Cerium Oxide Trizact Polishing Discs  
 10 - 2" PSA Velcro Discs



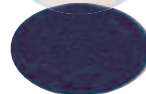
**Typhoon Wheels** (mount with short hub) for rapid removal of wood, acrylic, plaster, hard rubber and fiberglass. All sizes and grits **\$50.64 ea.**

- Round Face Coarse # KB25628                      Round Face Fine # KB25629  
 Flat Face Coarse # KB25626                      Flat Face Fine # KB25627



**2" PSA Velcro discs** are required between 2" Disc Mandrel (page 15) and PSA Sanding discs. They insulate, prevent slippage and allow re-use of sanding discs.

- Pkg/5 # FORA10041-5 **\$5.85**                      Pkg/25 # FORA10041-25 **\$20.80**



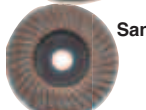
**2" PSA Ceramic Purple Sanding discs** cut with less heat and loading than other discs. Use with most materials. Individually priced at **\$1.82 per disc.**

- 60 Grit # FORA5682                      80 Grit # FORA5683  
 120 Grit # FORA5684                      220 Grit # FORA5685



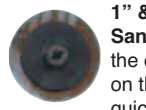
**Velcro Sanding Heads** vary the firmness of abrasive discs. Use with 2" PSA Velcro discs and PSA sanding discs. Mounts on Long Hub (included with grinder).

- Extra-Firm 3/16" # FORA10043 **\$14.30**                      Firm 5/16" # FORA10044 **\$14.95**  
 Medium 3/8" # FORA10045 **\$15.60**                      Soft 5/8" # FORA10046 **\$16.90**



**Sanding Flap Wheels** for fast clean-up work. Mounts with Short Hub (included with grinder).

- \$3.25 each.**                      60 Grit # FORA2201                      120 Grit # FORA2202                      240 Grit # FORA2203  
 320 Grit # FORA2204                      600 Grit # FORA2205  
 Pkg/5 Assorted (1 ea. grit) # FORAK2200 **\$13.65**



**1" & 2" Quick-Change Sanding Discs.** Mount the quick-change arbor on the grinder for very quick disc changes.

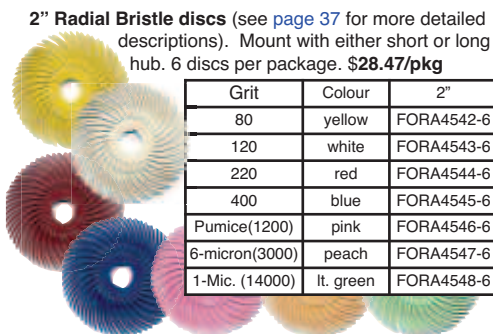
10 discs per package.

**1" \$5.20/pkg 2" \$7.80/pkg**

Grit	1"	2"
60	FORA2241-10	FORA2261-10
120	FORA2242-10	FORA2262-10
240	FORA2243-10	FORA2263-10
320	FORA2244-10	FORA2264-10
600	FORA2245-10	FORA2265-10
2 ea. Asst	FORAK2240	FORAK2260



Quick-change Arbor  
 # FORA69223 **\$7.48**



**2" Radial Bristle discs** (see page 37 for more detailed descriptions). Mount with either short or long hub. 6 discs per package. **\$28.47/pkg**

Grit	Colour	2"
80	yellow	FORA4542-6
120	white	FORA4543-6
220	red	FORA4544-6
400	blue	FORA4545-6
Pumice(1200)	pink	FORA4546-6
6-micron(3000)	peach	FORA4547-6
1-Mic. (14000)	lt. green	FORA4548-6



Also available for Freedom Angle Grinder: Sanding Screens, Disc Holder Protector Pads (for sanding screens), Felt Wheels, and Cut-off Wheels. Call or visit our website for more details.



# Foredom™ Power Carving Tools

## Belt Sander Attachment from Foredom®



All metal quality-machined aluminum belt sander attachment from Foredom (shown actual size below) has 3 permanently lubricated bearings. Hex key and 10 sandpaper belts (9/32"x10-1/8") included. Replacement belts available separately. Fits all #30 (chuck-style) Foredom handpieces. It's great for power sanding wood, metal, acrylic and composites quickly and easily. Use with # FORMAHH-30 handpiece holder for hands-free operation.

### Complete Kit (shown at right)

#### Fits all Foredom flex-shaft machines

Includes sander attachment, #30 handpiece, chuck key, hex key, 180 grit belt (installed) and 3 each 100, 180 and 240 grit belts.

# FORAK797230 **\$167.70**

### Belt Sander Attachment (without handpiece)

Includes sander attachment, hex key, 180 grit belt (installed) and 3 each 100, 180 & 240 grit belts.

# FORAK797210 **\$116.94**



FORMAHH-30

### Handpiece holder (photos above left)

Great for hands-free operation. Can also be used with #43 & #44 handpieces

# FORMAHH-30 **\$61.75**

### Replacement Sanding Belts

Coarse Assortment (3 ea 100, 180, 240) # FORAK797409 **\$7.53/pkg**

Fine Assortment (3 ea 320, 600, 1000) # FORAK797429 **\$7.53/pkg**

100 grit (5 belts/pkg) # FORA-797415 **\$5.53/pkg**

180 grit (5 belts/pkg) # FORA-797425 **\$5.53/pkg**

240 grit (5 belts/pkg) # FORA-797435 **\$5.53/pkg**

320 grit (5 belts/pkg) # FORA-797445 **\$5.53/pkg**

600 grit (5 belts/pkg) # FORA-797455 **\$5.53/pkg**

1000 grit (5 belts/pkg) # FORA-797465 **\$5.53/pkg**



(Shown actual size)



# Freedom™ Power Carving Tools

## Collet Adapters

**ADB16**

# **ADB16** Use 1/16" friction grip burs, forward or reverse, in 3/32" collet **\$18.15 ea.** *This little adapter is amazing!*

# **FORHPL4-3236** Similar to the 1/8-3/32" adapter (page 4), slightly less precision (not recommended for micromotors) **\$23.40 ea.**

## Speed Controls and Hangers for Freedom Flex-shaft machines

### Variable-speed foot control

as supplied in the 5240 kit - (page 10) fits all standard Freedom motors.\*

# **FORFCT1 \$50.70**



Also available by special order to fit TX, TXH, LX and LXH Motors (allow 3 weeks delivery) # **FORTXR1 \$76.70**

### Heavy duty metal variable-speed foot control

as supplied in the 5200 kit (page 10) - fits all standard Freedom motors\*.

# **FORSCT1 \$94.90**

To fit TX, TXH, LX and LXH Motors  
# **FORSXR1 \$115.70**



**Bench-top Speed control.**  
Plastic housing, red indicator lamp. Do your legs get sore from using the foot control for long periods? This is the answer! Also recommended for consistent speed control when using a power chisel handpiece. Fits all standard Freedom motors.\*

# **FOREM1 \$94.90**

Also available (in stock) for use with TX, TXH, LX and LXH Motors # **FOREMX \$123.50**



\*Standard Freedom motors are series CC, S, and SR motors, including both 1/8HP and 1/6HP SR's.

### Freedom Motor Hanger:

Clamped to your bench to hang your motor(s) securely. New design can hold one or two motors. Supplied with handpiece holder and accessory tray. A heavy-duty, very well-made hanger. # **FORMH1 \$64.94** (Freedom tools not included)

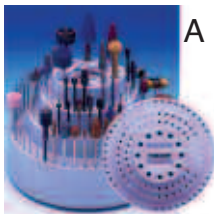


## We are your authorized Freedom™ Service Depot!

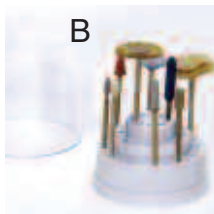
If you are a do-it-yourselfer, we can supply many Freedom parts for you from stock. If you don't see it listed, give us a call. Parts listed (page 12) are only a sampling of some commonly requested parts. If you're not sure about doing repairs yourself, just send us your machine and we'll do it for you quickly and at a reasonable cost.

# Power Carving - Bur Holders

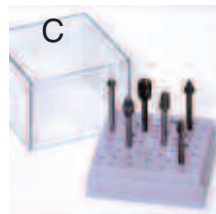
Organize your burs quickly and easily with one of these useful holders. From the large carousel to a small covered portable holder, each holder is well-made and very convenient. (Burs not included)



**A**



**B**



**C**

**A.** Large rotating stand. 7"dia x 4"H. Holds 69-3/32" or 1/8" burs; 12-1/4" burs; 45-1/16" burs. # **FOR10080 \$22.04**

**B.** Round covered holder. 2.5" dia x 2.5"H. 24 holes each 3/32" and 1/8". Max. 2" bur length. # **FOR10088 \$5.14**

**C.** Sq. covered holder. 2.5"sq. x 2.25"H. Holds 34-3/32" burs; 18-1/8" burs. Max. 2" burs. # **FOR10089 \$6.44**

# Power Carving Tools - Air Turbines

## Ultra-High Speed Air Turbines

One of Cam's favorite tools for detail and habitat work is an Ultra-high speed (UHS) turbine. We carry UHS tools from Turbo carver™ and NSK. All of these tools will spin 1/16" dental burs (often called "FG" or friction-grip burs) at speeds between 320,000RPM and 400,000RPM (there is virtually no difference in cutting ability anywhere within this range). At these speeds, you can carve almost any material - including wood, most metals, glass, antler, bone, even stone and eggshell! See [page 21](#) for selection of available burs.



**Turbo carver™** is the smallest UHS tool we sell. The USA-made, 400,000RPM Turbocarver™ is an ideal entry-level/hobby grade tool that is small, lube-free, dependable, comfortable and economical. Should servicing be required, it will be necessary to send the unit back to the US manufacturer. Available with or without water spray option.



Kit# 1



Kit# 2

**Turbo Carver™ Kit #1.** Everything you need except a compressor. Turbo carver™ with handpiece, air foot control, carbide and diamond bur, 5 micron air filter, pressure gauge, stencil, brush, face mask and instructional DVD. # TC2 **\$383.50**

**Turbo Carver™ Kit #2.** Water-spray kit. Includes everything in Kit #1; instead of the standard handpiece, includes a water-spray (WS) handpiece\* and reservoir. The WS handpiece sprays a fine water mist on the work surface, eliminating dust and cooling the bit. Can be used with or without mist. Great for working with hard materials like eggshell and antler.

# TC2WS **\$519.95**

*\*Note: the water spray option is best purchased with a new handpiece (as opposed to adding it later). To add it later the handpiece must be sent to the USA. Conversion cost would be approx. \$150.00US plus shipping + 4 weeks.*

### Parts and Accessories:

<b>Handpiece</b> (repl.) # TC550	<b>\$246.95</b>
<b>5 Mic. Air Filter</b> # TC-AF400	<b>\$16.60</b>
<b>Pressure gauge</b> # TC-AG400	<b>\$35.00</b>
<b>Foot Control</b> # TC-FC400	<b>\$67.60</b>
<b>Router/Milling attachment</b> # TCMILL	<b>\$33.75</b>



**FAQ:** Will a UHS tool replace any of my other tools? Will it make them obsolete?

**A).** No. A UHS tool will compliment the tools you are currently using - it won't replace them. UHS tools are meant for very fine, precise detail work. For most carvers wishing to use power tools, this would be the third power tool purchase. First choice would be a flex-shaft tool (Foredom™) for bulk removal, rough-out work and sanding of large areas. Second would be a micromotor for smaller carved detail, texturing, and fine sanding. The UHS tool is unmatched for fine detail work, but it will not work for bulk carving or sanding.

**FAQ:** Can I use a UHS handpiece instead of a micromotor tool?

**A).** No. UHS handpieces complement your other tools. They accept only 1/16" shank burs and while they have great speed, they don't have much torque. They are mainly designed for very fine, delicate detail work. For most carvers we recommend a flex-shaft tool first, then a micromotor and then a UHS handpiece. If you aren't sure, give us a call!

# Power Carving Tools - Air Turbines

## NSK Presto II

This is the top-of-the-line; as good as it gets in UHS tools. Typical of NSK tools, the Japanese-made, 320,000RPM Presto is lube-free, silky smooth, and very comfortable (it's also the quietest we've tested). Features an easy, twist bit release. The turbine is user-replaceable and kept in stock.



**Presto Kit.** Everything you need except a compressor. Includes handpiece, control unit (pressure regulator and gauge, air filter, moisture trap, handpiece stand), foot controller, bur push-in tool, wrench, tubing, and 1/4" NPT air connector. # NSKPRESTO2 **Please call for price\***

**Presto Handpiece only.** # NSKPRESTO1 **Please call for price\***

**Turbine Cartridge** NSK Presto (does not fit Aqua) # NSKPR03 **Please call for price\***

\*NSK does not allow dealers to advertise prices on their tools. Please call or email us for current pricing. We sincerely regret any inconvenience this may cause.



## Compressor for UHS tools



This is a superb little compressor for any of the UHS tools we sell. It's small (14"x10"x8"), quiet (59db or around the loudness of an electric toothbrush), portable yet substantial (24lbs), and powerful enough (2.8CFM) to run your UHS tool for hours of continuous use. You can also use it with an airbrush if you wish. Comes complete with foot control and all hoses etc. needed to hook up a TurboCarver tool (other tools should hook up directly but may require an extra fitting). Lube-free with virtually no maintenance needed.

#TCCOMP **\$449.95**

# Power Carving - Air Turbine Burs

## Burs For Ultra-High Speed Air Turbines


We have a full selection of high-quality FG (FG stands for "friction-grip") 1/16" shank burs to fit your ultra-high speed air turbine. **Carbide** burs are used on all "softer" materials like wood, most metals, eggshell and soft stones (soapstone). Single-cut carbide burs leave a smooth cut, while cross-cut burs cut cooler and more quickly, but they leave fine ridges. **Diamonds** are essential for hard materials (like stone and glass); they will also work on softer materials (like wood). **Stone burs** are great for texturing and smoothing softer materials as well as pre-polishing in hard materials. **Rubber polishers** give a fine finish in most metals, but they must be used at reduced speeds or they will disintegrate. All burs (except rubber polishers) are rated for use in UHS handpieces up to 450,000RPM. All burs are shown actual size.

## 1/16" Shank ("FG") Carbide Burs (Shown actual size)

**Carbide Balls** *For shaping and texturing in wood, and engraving metal. Good for bulk reduction.*

	0.5mm head dia. # FG1.005 <b>\$3.90</b>
	1.2mm head dia. # FG1.012 <b>\$3.90</b>
	1.2mm long-shank # FG1.012L <b>\$7.55</b>
	2.3mm head dia. # FG1.023 <b>\$3.90</b>










**Carbide Needles and Sharp Tapers** *are ideal for extremely fine cutting and engraving in most materials. The point on these cutters is extremely sharp and prone to breaking if too much pressure is used.*

	Sharp Taper # FG7611 <b>\$11.30</b>
	Needle Point # FG48L.012 <b>\$13.95</b>
	Sm. Needle Point # FG48.009 <b>\$11.70</b>

# Power Carving - Air Turbine Burs


## 1/16" Shank ("FG") Carbide Burs (Shown actual size)

**Carbide Fissure Burs** For outlining relief carvings, inlay, and bulk reduction in softer materials and for high-definition engraving in metal.

	0.8mm single-cut #FG15.008	\$5.20
	0.8mm cross-cut #FG21.008	\$5.20
	1.2mm single-cut #FG15.012	\$5.20
	1.4mm single-cut #FG128.014	\$6.15
	1.0mm cross-cut taper #FG23.010	\$5.20
	1.0mm cross-cut long-head taper #FG23L.010	\$5.50
	1.0mm cross-cut round taper #FG23U.010	\$5.50
	1.0mm single-cut long-head taper #FG17L.010	\$5.20
	1.6mm bone cutter (very durable) #FG161-016	\$40.00

### Carbide Inverted Cones and Pears

**Cones** are great for bright line engraving in metal and undercutting epoxy inlay. **Pear** is good for cutting eggs and general contouring and carving.

	0.6mm small inverted cone #FG3.006	\$5.20
	0.8mm medium inverted cone #FG3.008	\$5.20
	1.4mm large inverted cone #FG3.014	\$5.20
	1.4mm long dome pear #FG150.014	\$5.50

All of the burs shown on this page and the previous page can be used with a micromotor or Foredom tool in a 1/8" collet with adapter #R18-116, or in a 3/32" collet with adapter # ADB16 (see bottom of page).

## 1/16" Shank ("FG") Diamond Burs (Shown actual size)


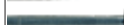

**Diamond Footballs and Flames** are used for contouring and fine shaping in wood and eggshells. Also used for carving hard materials like rock and glass, and for simulating sandblasting effects.

	1.6mm Coarse #FGMM4C	\$13.00
	1.6mm Fine #FGMM4F	\$13.00
	2.2mm Coarse #FGMM5C	\$13.00
	2.2mm Fine #FGMM5F	\$13.00
	Fine Flame #FGMM58F	\$13.00
	Coarse Flame #FGMM58C	\$13.00
	Long Coarse #FGMM58L	\$13.00
	Short Flame #FG16084	\$13.00


**Round Diamond Burs** for engraving and stippling on glass and stone, and to shape and contour softer materials like wood.

	1.0m #FG001.010	\$7.80
	1.4mm #FG001.014	\$7.80
	1.8mm #FG001.018	\$7.80
	2.5mm #FG001.025	\$14.65
	3.3mm #FG001.033	\$19.20

**Diamond Wheels** for grooves and sectioning.

	2.3mm Knife-edge #FG023	\$26.00
	3.5mm Wheel #FG035	\$26.00
	5.0mm Wheel #FG050	\$26.00

**Diamond Inverted Cone** for undercutting and general reduction in most materials.

	1.4mm inverted cone #FG225.014	\$7.80
--	--------------------------------	--------

**Single-Point Diamond** for extra-fine engraving on any surface. Single diamond point on tip does a superb job. A very unique and effective bur.



	Single-Point #FGSP1	\$41.90
---	---------------------	---------

## 1/16" Shank ("FG") Stones and Polishers (Shown actual size)

**Stones for texturing.** Used in much the same way as stones in a micromotor tool, but considerably more efficient at super-high speeds. White stones are finer and cut slower than green stones.

	2.9mm White Ball #FG601WH	\$5.20
	2.9mm Green Ball #FG601GR	\$5.20
	2.9mm White Cylinder #FG638WH	\$5.20
	2.5mm White Taper #FG649WH	\$5.20
	2.5mm White Flame #FG661WH	\$6.10
	2.5mm Green Flame #FG661GR	\$5.50

**Rubber Polishers** Are used for polishing metals. Can also be used on glass and stone. Reduced RPM's recommended.

	Brown Rubber Flame Pre-Polisher #FG0055BR	\$5.50
	Green Rubber Flame Final Polisher #FG0155GR	\$5.50

1/16" "FG" Burs can also be used on your micromotor or Foredom tool with the adapters shown below. 1/16" collets are also available for some micromotor and Foredom handpieces. They cut a bit slower at speeds up to 50,000 but still perform well.

## 1/16" Adapters

	# R18-116 1/8" to 1/16" Collet adapter	\$29.90
--	--	---------

	# ADB16 3/32" to 1/16" Adapter	\$18.15
---	--------------------------------	---------

# Power Carving - Cutters

About the different types of cutters.....

There are so many cutters made today that it's hard to know which ones to use. We've "whittled" down from a selection of thousands to those shown here (just one of our many suppliers has over 1,200 different cutters to choose from!) All of the cutters we sell represent excellent value and long life if used properly. All cutters are first grade, true running, and have proven particularly useful for woodcarvers. They fall into two broad categories: Abrasive cutters and Sharp cutters.

**Abrasive Cutters** remove material by grinding it off in small particles (dust or small chips). Generally easy to control, they cut equally well in forward or reverse. Coarser abrasive cutters like the Typhoon burs on pages 29 & 30 can remove wood very quickly. Finer abrasive cutters like Ruby carvers on pages 24 & 25 cut slower but leave a smooth finish. Very fine abrasives include stones like those on pages 35 & 36 as well as sanders (pages 22 & 23). For most woodcarving, abrasive cutters are more commonly used than sharp cutters.

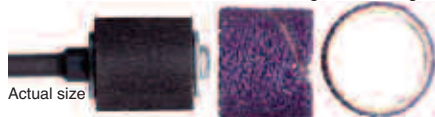
**Sharp Cutters** generally give a fast cut with a smooth finish. However, there are trade-offs. Most sharp cutters don't cut in reverse, making them awkward when it's necessary to carve against the grain. Sharp cutters may be harder to control and may have a tendency to grab into and run along the work being carved. Larger sharp cutters can be more dangerous when not used carefully as they will cut skin and bone more readily than the abrasives. I always wear a leather glove on my holding hand when using larger sharp cutters. Some sharp cutters are available in finer and coarser types, with the coarser ones cutting faster but having more tendency to dig and run. Finer sharp cutters work well for hard woods, most metals and soapstone while coarser ones work best on softer woods and aluminum. Sharp cutters are made from several different materials. Steel is the least expensive but quickest to dull. Carbide is more expensive to buy but lasts many times longer than steel. Carbide can also be used to cut many metals. My favorite sharp cutters are the solid carbide stump burs on page 26. Still have questions? Give us a call!

## Ceramic Sanding Bands

3M's patented Cubitron™ ceramic aluminum oxide mineral sharpens itself with use, for an abrasive band that lasts 2 to 4 times longer than traditional bands. They provide faster stock removal with less heating and loading. Available in packs of 10 bands: 60, 80, 120, or 220 grit.



Actual size



Actual size

1/4x1/2" Bands (package of 10) **\$5.07/pkg.**  
 60 GRIT # **FOR4912-10**    80 GRIT # **FOR4913-10**  
 120 GRIT# **FOR4914-10**    220 GRIT# **FOR4916-10**  
 1/4x1/2" Mandrel; 3/32" shank # **MSD324 \$6.50**  
 1/4x1/2" Mandrel; 1/8" shank # **MSD184 \$6.50**

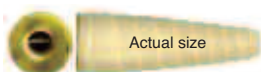
1/2x1/2" Bands (package of 10) **\$6.83/pkg.**  
 60 GRIT # **FOR4922-10**    80 GRIT # **FOR4923-10**  
 120 GRIT# **FOR4924-10**    220 GRIT# **FOR4926-10**  
 1/2x1/2" Mandrel; 3/32" shank # **MSD328 \$6.50**  
 1/2x1/2" Mandrel; 1/8" shank # **MSD188 \$6.50**

Hint: When using sanding bands, they usually work better if you mount the band so that it extends out over the screw (as shown at right). Also works with Dura-GRIT™ drums (p. 28)



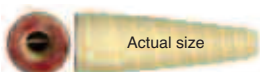
## Sanding Cones

You'll wonder how you ever did without these handy miniature sanding mandrels and cones. They're quick, convenient and economical. Best of all, they do an incredible job of fine sanding and blending in those hard-to-reach areas that carvers encounter regularly. Available in two sizes and three grits. The large cones fit on a split tapered mandrel (#M20 below or # M22 on page 23). The small cones fit on a threaded mandrel #M100 or M7 (page 23). They are all quick and easy to change, and the wrapped-paper design exposes new grit as the cones wear down. Must be used at speeds under 10,000 RPM for longer life and more control. Sold in packages of 10 per size/grit. Cones and mandrels shown actual size.



Actual size

# **CONE15RG (Coarse Yellow)**  
 150 Grit **\$6.50/pkg 10**



Actual size

# **CONE20RG (Med. Red)**  
 200 Grit **\$6.50/pkg 10**



Actual size

# **CONE30RG (Fine Green)**  
 300 Grit **\$6.50/pkg 10**

# **M20 Mandrel w/ 3/32" shank \$5.95**  
 Fits large cones above



Actual size



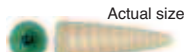
Actual size

# **M100 Mandrel w/3/32" shank \$5.95**  
 Fits small cones at right



Actual size

# **CONE25SM (Med. Red)**  
 250 Grit **\$7.25/pkg 10**



Actual size

# **CONE35SM (Fine Green)**  
 350 Grit **\$7.25/pkg 10**

# Power Carving - Sanders & Mandrels



#S1407

\$18.95



#S1405

\$17.95



#S1803

\$16.95

**Razertip Cushion Sanders** cut your sanding time in half or less! These sanders use cloth-backed sandpaper and give a super smooth finish. Intended for finish sanding - not designed as a carving tool. The SIA paper shown below is recommended. I wouldn't be without mine. Supplied with paper, key and a spare foam pad, ready to go.

**Replacement Foam Pads \$1.00 ea.**  
# PADS1407 PADS1405 PADS1803

Made in Canada by

*Razertip®*

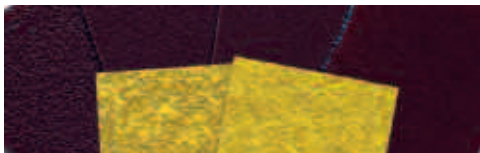
**Shown  
actual size**

**HINT:** To get the longest life from your cushion sander, use light pressure. Cushion sanders are not intended to remove lots of wood - they are more for smoothing and contour sanding. For convenience, we recommend having one sander on hand for each grit of paper you are using.

## Swiss Sandpaper

**Swiss Burgundy Sandpaper.** Probably the best sandpaper made. Cloth-backed, very flexible, with very sharp grit that stays on the backing. Great for hand sanding or for use on the cushion sanders above. Also works very well when wrapped around a tapered or split mandrel (below). An exceptional product! Supplied in 4" rolls. **\$4.35/yd** all grits.

# SIA80 80 grit (fairly coarse)  
# SIA220 220 grit (medium/fine)  
# SIA400 400 grit (very fine)



# SIA120 120 grit (medium)  
# SIA320 320 grit (fine)  
# SIA600 600 grit (super fine)

**Swiss Yellow Sandpaper.** Fairly stiff paper back and sharp grit. Great for making sanding sticks. Will remove substantial amounts of wood when used on our cushion sanders. Longer lasting and faster cutting than other sandpapers. 4" wide. # SIA1960.80 80 grit (very coarse) # SIA1960.120 120 grit (coarse) **\$2.15/yd** all grits.

High quality mandrels can be used for many different operations. You can mount buffing or cut-off wheels, sanding pads, discs, de-fuzzing wheels and more. (See [page 37](#) for "Ultra- Brite" de-fuzzing material). All Mandrels shown actual size.



3/32" shank screw head for discs and wheels. # M1 **\$3.58** ea.



3/32" short shank screw head for discs and wheels. # M10 **\$3.58** ea.



3/32" shank screw head for discs and wheels. # M2 **\$3.58** ea.



1/8" shank screw head for discs and wheels. # M6 **\$3.58** ea.



3/32" Large screw head for discs and wheels. Suitable for 1" Bristle Disks and large-hole disks # M13 **\$3.58** ea.



1/8" shank tapered thread for felt buffs & small sanding cones ([page 22](#)). # M7 **\$3.84** ea. Also available in 3/32" shank. # M100 **\$5.95** ea.



3/32" shank split mandrel for flap sanding - use Swiss paper (above) wrapped and secured with a small o-ring or small rubber band. # M21 **\$3.84** ea.



3/32" shank tapered split mandrel for sanding - use Swiss burgundy paper (above). Supplied with a template for a very effective soft sanding cone. Also holds large sanding cones ([page 22](#)). # M22 **\$3.84** ea.

Japanese-made tapered split mandrel (higher quality; photo on [page 22](#)) # M20 **\$5.95** ea.





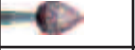








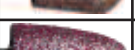

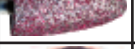


# Power Cutters - Ruby, Sapphire, Diamond

These cutters are coated with tiny particles of Ruby, Sapphire or Diamond. They can be used to carve, grind, texture or smooth. They are durable, long lasting, precise and easy to control. All have 3/32" shanks.













**RUBY CARVERS** are the most economical and the most popular. Available in 3 grades: Standard, Rubynit (coarse), and Super-coarse. All are good for wood and many plastics.

**SAPPHIRE CARVERS** - coarse grade; longer lasting than rubies.

**DIAMOND CARVERS** are the most durable, lasting up to 5 times as long as rubies. They can be used on wood, some plastics, many metals and soft stones (ie Soapstone). They will also carve glass. Fairly fine grit.

Shape	Standard Ruby	Super Coarse Ruby	Standard Diamond	Shape	Standard Ruby	Super Coarse Ruby	Standard Diamond
	RUBY15 \$12.95	RUBYX15 \$18.50	D15 \$19.20		RUBY24 \$14.25	RUBYX24 \$19.45	D24 \$24.65
	RUBY16 \$12.95	RUBYX16 \$18.50	D16 \$19.20		RUBY25 \$14.25	RUBYX25 \$19.45	D25 \$24.65
	RUBY17 \$12.95	RUBYX17 \$18.50	D17 \$19.20		RUBY26 \$14.25	RUBYX26 \$19.45	D26 \$24.65
	RUBY18 \$12.95	RUBYX18 \$18.50	D18 \$19.20		RUBY27 \$14.25	RUBYX27 \$19.45	D27 \$24.65
	RUBY19 \$12.95	RUBYX19 \$18.50	D19 \$19.20		RUBY29 \$19.45	RUBYX29 \$27.30	D29 \$27.30
	RUBY20 \$12.95	RUBYX20 \$18.50	D20 \$19.20		RUBY29 \$19.45	RUBYX29 \$27.30	D29 \$27.30
	RUBY21 \$14.25	RUBYX21 \$19.45	D21 \$24.65		RUBY30 \$19.45	RUBYX30 \$27.30	D30 \$27.30
	RUBY22 \$14.25	RUBYX22 \$19.45	D22 \$24.65		RUBY30 \$19.45	RUBYX30 \$27.30	D30 \$27.30
	RUBY23 \$14.25	RUBYX23 \$19.45	D23 \$24.65		RUBY31 \$19.45	N/A	N/A

## All Burs Shown Actual Size

Shape	Rubynit Coarse	Sapphire Coarse	Standard Diamond	Shape	Rubynit Coarse	Sapphire Coarse	Standard Diamond
	RUBYC11 \$14.25	SAP101 \$20.15	N/A		RUBYC31 \$14.25	SAP301 \$16.85	D601 \$28.50
	RUBYC12 \$14.25	SAP102 \$20.15	N/A		RUBYC32 \$14.25	SAP302 \$16.85	D602 \$28.50
	RUBYC13 \$14.25	SAP103 \$20.15	D503 \$31.15		RUBYC33 \$14.25	SAP303 \$16.85	D603 \$28.50
	RUBYC14 \$14.25	SAP104 \$20.15	D504 \$31.15		RUBYC34 \$14.25	SAP304 \$16.85	D604 \$28.50
	RUBYC15 \$14.25	SAP105 \$20.15	D505 \$31.15		RUBYC35 \$14.25	SAP305 \$16.85	D605 \$28.50
	RUBYC16 \$14.25	SAP106 \$20.15	D506 \$31.15		RUBYC36 \$14.25	SAP306 \$16.85	D606 \$28.50










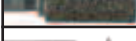


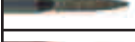







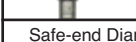

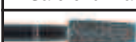
**Double-ended Pin Vise.** Pin vises act as a handle for your small burs, allowing you to use them as sanding or filing tools. Great for precise sanding and burnishing. This one comes with collets to accept 1/32", 1/16", 3/32", and 1/8" shanks (bits not included). Shown actual size. Double-ended pin vise # GC58240 **\$11.95**





# Power Cutters - Ruby, Sapphire, Diamond

**Diamond Burs.** High quality diamond points with 3/32" shanks made for the dental industry. Very sharp grit, easy to control and made to last. "Safe-end" diamonds D22SE and D40SE have no grit on the ends. Perfect for layering feathers! **All Burs Shown Actual Size.**

	1.8mm ball	D001018	\$11.50		3.1mm Round Taper	HP199031	\$27.30
	2.9mm ball	D001029	\$12.95		4mm Football	D295040	\$19.45
	0.7mm Very Fine Point	HP539007	\$11.50		6mm Pear	D263060	\$19.45
	1.2mm Fine Point	HP247012	\$11.50		5.1mm Cylinder	D130051	\$19.45
	1.2mm Long Point	HP250012	\$14.25		3.3mm Wheel	D304033	\$24.50
	1.8mm Long Point	D250018	\$19.45		5.0mm Wheel	D304050	\$16.85
	1mm Slender Point	HP249010	\$12.95		6.3mm Wheel	D304063	\$24.50
	1.4mm Point	HP249014	\$12.95		9.7mm Wheel	D304097	\$31.15
	1.6mm Point	D249016	\$15.50		1.6cm Wheel	HP340160	\$23.25
	2.6mm Point	D22026	\$10.34	Safe-end Diamonds (below) have no grit on the end			
	2.3mm Taper Point	D166023	\$16.85		2.2mm Safe-end	D22SE	\$25.95
	1.8mm Round Taper	HP199018	\$13.65		4.0mm Safe-end	D40SE	\$25.95

## Value-priced 30 Piece Diamond Set # DS301 \$16.50

30 piece diamond set with 3/32" shanks is great for all-around use. Lots of useful shapes for almost any type of carving and texturing. Fine grit diamonds give a controlled cut and a fairly smooth surface. High-tolerance shanks are safe to use with micromotor tools (will not damage collet). Superb value at only 55 cents per diamond! Sorry, they are not available individually.



## Cleaners for Diamonds and Rubies:

**"Wetstick" cleaning stone** - used wet to clean diamonds. Restores diamond cutters to like-new condition. To use, soak in water for a minute or two, then run a spinning diamond into the wet stone until the diamond is clean. Not for use with rubies or sapphires. # WETSTICK \$4.55

**Diamond cleaning block** - used dry to clean diamonds. Simply push a spinning diamond cutter into the block to remove most debris quickly. Long-lasting. Not for use with rubies or sapphires. # DICLEAN \$25.95



















**Crepe block** - cleans rubies, sapphires, texturing stones and sanding drums/belts. This handy little crepe block will fit into your toolbox and will last most carvers a lifetime. Used dry, you simply run your abrasive cutter into this block until the buildup in your cutter is removed. Not recommended for cleaning diamonds. # CLN \$2.00

**Single-ended Pin Vise.** Has a clever universal collet that will accept both 3/32" and 1/8" burs. Very comfortable and practical (bit not included). Shown actual size. Single-end vise # GC58282 \$21.15



# Power Carving - Cutters





## HS Steel Stump Burs (3/32" Shank) All Shown Actual Size

	HP218050 <b>\$9.95</b>	Coarse 5.0mm Bud
	F212050 <b>\$14.25</b>	Fine 5.0mm Bud
	HP218060 <b>\$11.65</b>	Coarse 6.0mm Bud
	F212060 <b>\$14.25</b>	Fine 6.0mm Bud
	HP218070 <b>\$11.65</b>	Coarse 7.0mm Bud
	F212070 <b>\$15.50</b>	Fine 7.0mm Bud
	HP218080 <b>\$12.80</b>	Coarse 8.0mm Bud
	F212080 <b>\$15.50</b>	Fine 8.0mm Bud
	C215050 <b>\$11.65</b>	Coarse 5.0mm Flame
	F215050 <b>\$14.25</b>	Fine 5.0mm Flame
	C215060 <b>\$11.65</b>	Coarse 6.0mm Flame
	F215060 <b>\$14.25</b>	Fine 6.0mm Flame
	C215070 <b>\$12.95</b>	Coarse 7.0mm Flame
	F215070 <b>\$19.65</b>	Fine 7.0mm Flame
	C215080 <b>\$12.95</b>	Coarse 8.0mm Flame
	HP217050 <b>\$9.95</b>	Coarse 5.0mm Inverted Pear
	HP217060 <b>\$11.65</b>	Coarse 6.0mm Inverted Pear
	HP217070 <b>\$11.65</b>	Coarse 7.0mm Inverted Pear

	HP219050 <b>\$9.95</b>	Coarse 5.0mm Ball
	F217050 <b>\$14.25</b>	Fine 5.0mm Ball
	HP219060 <b>\$11.65</b>	Coarse 6.0mm Ball
	HP219070 <b>\$11.65</b>	Coarse 7.0mm Ball
	HP219080 <b>\$12.80</b>	Coarse 8.0mm Ball
	HP84040 <b>\$11.65</b>	Coarse 4.0mm Oval
	HP84050 <b>\$11.65</b>	Coarse 5.0mm Oval
	HP84070 <b>\$11.65</b>	Coarse 7.0mm Oval
	HP135RS.100 <b>\$32.25</b> Very long-life	Surgical Stainless Coarse 10mm Sq. Cylinder
	HP216040 <b>\$9.95</b>	Coarse 4.0mm Cylinder
	HP216050 <b>\$9.95</b>	Coarse 5.0mm Cylinder
	HP216060 <b>\$9.95</b>	Coarse 6.0mm Cylinder
	HP216070 <b>\$11.65</b>	Coarse 7.0mm Cylinder
	HP216080 <b>\$12.80</b>	Coarse 8.0mm Cylinder







### 3/32" Solid Carbide Stump Burs

Similar to the HS steel stump burs above, but more aggressive, smoother-cutting and much, much longer lasting. They are worth every penny, especially if you carve hard woods. Cam's favorite.

	HP424GS.040 <b>\$43.50</b>	Coarse Carbide 4.0mm Bud
	HP424GS.060 <b>\$43.50</b>	Coarse Carbide 6.0mm Bud
	HP429MS.040 <b>\$43.50</b>	Fine Carbide 4.0mm Long Bud
	HP433MS.023 <b>\$43.50</b>	Fine Carbide 2.3mm Taper

### 3/32" Eye Drills

By popular request - we are now carrying these useful burs that allow you to precisely locate and drill eye holes from 3mm to 8mm. Easy to use and very effective! All shown actual size.

	HP413-030	3mm <b>\$6.95</b>
	HP413-040	4mm <b>\$8.75</b>
	HP413-050	5mm <b>\$8.75</b>
	HP413-060	6mm <b>\$9.95</b>
	HP413-070	7mm <b>\$9.95</b>
	HP413-080	8mm <b>\$11.85</b>



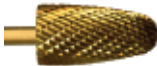


Set of all 6 Eye Drills # EYEDRILLSET6 **\$46.75**

# Power Carving - Sharp Cutters

**Goldies™ (3/32" Shank)** Sharp, high-speed steel cutters coated with titanium nitride assure fast, clean, cool cutting. Easy to control and long-lasting. Excellent on soft and hard wood as well as brass and other softer metals. They are a perfect cutter for your micromotor tool and will give years of service.



Flames		# DD0346	\$18.15
		# DD0385	\$22.00
		# DD0462	\$29.85
		# DD0439	\$25.95

All Cutters shown actual size.


Cylinders Bullets		# DD0352	\$18.15
		# DD0424	\$25.95
		# DD0499	\$33.75
		# DD0428	\$25.95
		# DD0502	\$33.75

**Assorted Cutters.** Great for all kinds of cutting from inlay work to fine detail. Dental quality burs are long-lasting and reasonably priced. 425SG is very aggressive while leaving a smooth finish. FOR1C and TP1C are not quite as aggressive. They are great for most metals including brass. Will fit in all small rotary tools (micromotor, Dremel, etc). Solid Carbide burs will last most carvers a lifetime when used for carving wood or soft metals.






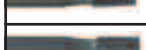






## Solid Carbide Cutters (3/32" Shank)

	1.4mm Round Flame	HP44E014	\$12.35
	6mm Bud	HP425SG	\$33.50

## Solid Carbide Cutters (1/8" Shank)

	3mm Flame	FORF1C	\$14.24
	3mm Tree-point	TP1C	\$13.33
	6mm Cross-cut Bud	HPL425	\$43.55

## High-speed Steel Cutters (3/32" Shank)

	1mm Needle	HP207101	\$9.95
	1mm Pointed Cone	HP39010	\$4.55
	2.1mm Pointed Cone	HP39021	\$4.55
	.7mm Square Cone	HP38007	\$4.55
	.9mm Inlay Bur	HP100A009	\$5.50
	2.3mm Square Cone	HP38023	\$4.55
	2.3mm Sq. Cylinder	HP34023	\$4.55
	1.8mm Round Taper	HP215018	\$7.75
	4.5mm Long Bud	HP79045	\$7.15
	7mm Ball Single-cut	HP196070	\$10.35
	7mm Mini Circular Saw	HP45040	\$7.75
	14mm Knife-edge	HP161KE-140	\$29.85

## Steel Carving Drills

High-temper steel carving drills are designed for internal carving of plastic and wood, as well as general drilling in soft materials. Very useful and very sharp.

Max. 25,000 RPM.

# CD1 1/16" diameter

# CD2 3/32" diameter

# CD3 1/8" diameter

\$16.84 ea.





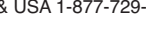
Shown Actual Size

## Vanadium Steel Engraving Burs

Useful for fine detail work on wood or soft metals. 3/32" shanks. Excellent value.

Set of All 5 Burs (below) # KIT65 \$9.43

Also available individually as shown below \$2.28 ea.

	Small Ball	BUR-R2
	Medium Ball	BUR-R5
	Large Ball	BUR-R7
	Small Inv. Cone	BUR-P3
	Large Inv. Cone	BUR-P7

**Actual size illustrations:** Did you know that every cutter, burner tip and paint brush, along with many other products in this catalogue, is shown at its exact size? You can order with confidence and no surprises when you receive your order.

## Dura-GRIT™ Tungsten-Carbide Abrasive Cutters (all have 1/8" Shank)








Tough cutters for tough jobs. Quite aggressive - we rate them between a Ruby Carver and a Typhoon™ bur - yet they leave quite a smooth finish. They are very controllable and they last and last. Grit will not tear loose and the edges stay sharp. Most Dura-GRIT cutters are available in your choice of several grits.



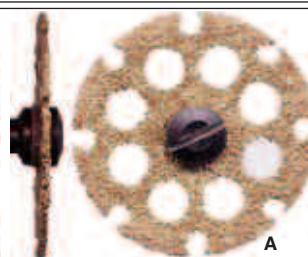

### Detail Burs

	Cylinder 1/8" <b>\$16.25</b> ea. 80 grit # SR-SB8-080 120 grit # SR-SB8-120 240 grit # SR-SB8-240		Point <b>\$16.25</b> ea. 80 grit # SR-PB8-080 120 grit # SR-PB8-120 240 grit # SR-PB8-240
	Cylinder 1/16" <b>\$16.25</b> ea. 80 grit # SR-SB6-080		Grain of Wheat 1/8" <b>\$16.25</b> 80 grit # SR-GOW-080
	Inverted Cone <b>\$16.25</b> ea. 80 grit # SR-IVC-080		Cutting Wheel 3/16" <b>\$16.25</b> 80 grit # SR-CW2-080
	Sphere 1/16" <b>\$16.25</b> ea. 80 grit # SR-SP6-080		Cutting Wheel 3/8" <b>16.25</b> 80 grit # SR-CW3-080
	PIA Flame <b>\$19.95</b> 80 grit # SR-PIA-080		

### Screw-tip Burs (60 grit coarse or 80 grit medium)

Heads are screwed to the 1/8" shanks. Screwtip burs are best used in the "forward" direction. If you want to use "reverse", we recommend locking the threads with a drop of thin CA glue ([page 41](#)). **\$18.75 ea.** (except HT2)

	Aspirin-tip Cylinder 60 grit # SR-ATB-060 80 grit # SR-ATB-080		Round-end Cylinder 60 grit # SR-REB-060 80 grit # SR-REB-080	
	Flat-head Cylinder 60 grit # SR-FHB-060 80 grit # SR-FHB-080		Ball-end (sphere) 60 grit # SR-BEB-060 80 grit # SR-BEB-080	
	Hollow-tip Cylinder 3/8" 60 grit # SR-HTB-060 80 grit # SR-HTB-080		Cone 60 grit # SR-CTB-060 80 grit # SR-CTB-080	
			Hollow-tip Cylinder 1/2" 60 grit # SR-HT2-060 80 grit # SR-HT2-080 <b>\$19.95 ea.</b>	

	<b>\$22.50</b> ea. 1.25" Mushroom Shaping Wheel Coarse 046 grit # SR-MSW-046 Medium 060 grit # SR-MSW-060 Fine 120 grit # SR-MSW-120		1" Cutting Wheel Medium 80 grit # SR-CW1-080 Fine 120 grit # SR-CW1-120 <b>\$22.50</b> ea.		A. 1.25" Cutting and Shaping Wheel (grit covers face of cutter) # SR-CS4-060 <b>\$22.50</b> ea.		B. 1.25" Cutting wheel (grit only on edge) # SR-CW4-060 <b>\$21.25</b> ea.
---	--	--	---	--	---	--	---

#### Detail Sets include:

- 1/16" Cylinder (SR-SB6-\*)
- Inverted Cone (SR-IVC-\*)
- 1/16" Sphere (SR-SP6-\*)
- Grain of Wheat (SR-GOW-\*)
- PIA Flame (SR-PIA-\*)
- 3/16" Cutting Wheel (SR-CW2-\*)
- 3/8" Cutting Wheel (SR-CW3-\*)
- \*Fine (240 grit) # **SR-BLU-007F**
- \*Medium (120 grit) # **SR-BLU-007M**
- \*Coarse (80 grit) # **SR-BLU-007C**

Value \$117.45 only **\$97.50**

#### Woodcarving Set includes:

- Cone Bur (SR-CTB-080)
- Aspirin-tip Bur (SR-ATB-080)
- Flat-head Bur (SR-FHB-080)
- Rounded-end Bur (SR-REB-080)
- Ball-end Bur (SR-BEB-080)
- Hollow-tip Bur (SR-HTB-080)
- #**SR-BLU-006**

Value \$119.70 only **\$99.75**

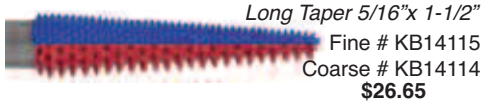
#### DIY Woodworking Set includes:

- Mushroom Wheel (SR-MSW-060)
- Hollow-tip Cylinder (SR-HT2-080)
- Pointed Detail Bur (SR-PB8-080)
- Cutting Wheel (SR-CW4-060)
- #**SR-YEL-004**

Value \$79.95 only **\$67.95**

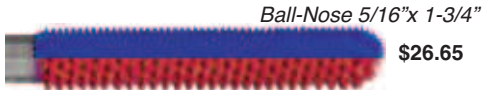
# 1/4" Typhoon™ Carbide Burs

All Cutters shown actual size



Long Taper 5/16" x 1-1/2"

Fine # KB14115  
Coarse # KB14114  
**\$26.65**



Ball-Nose 5/16" x 1-3/4"

**\$26.65**

Fine ##KB14715 Coarse # KB14714



Ball-Nose

13/16" x 1-1/4"  
# KB14735 Fine  
# KB14734 Coarse  
**\$28.60**



Ball-Nose 9/16" x 3/4"

# KB14713 Fine  
# KB14712 Coarse  
**\$26.65**



Flame 7/8" x 1-3/8"

# KB14979 Fine  
# KB14978 Coarse  
**\$30.55**



Flame 5/8" x 1-1/16"

# KB14958 Coarse  
**\$28.60**



Flame 3/8" x 3/4"

# KB14913 Fine  
# KB14912 Coarse  
**\$25.35**



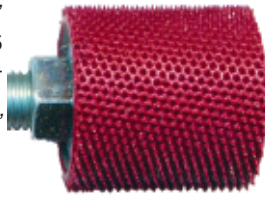
Sphere 15/16"

# KB14395 Coarse  
**\$35.75**

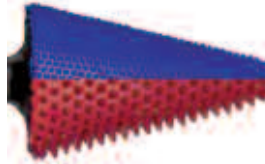


Sphere 9/16"

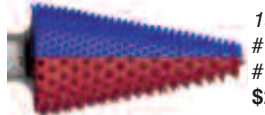
# KB14313 Fine  
# KB14312 Coarse  
**\$26.65**



Sanding Sleeve  
15/16" x 1" (3/4" ID)  
Mounted on  
rubber mandrel.  
# KB43545 Coarse  
**\$38.35**



15° Taper  
13/16" x 1-3/8"  
# KB14179 Fine  
# KB14178 Coarse  
**\$28.60**



15° Taper 9/16" x 1"

# KB14159 Fine  
# KB14158 Coarse  
**\$26.65**



5° Taper 1  
3/16" x 1-1/4"  
# KB14198 Coarse  
Smooth-End  
**\$28.60**



Cylinder

13/16" x 1-1/4"  
# KB14535 Fine  
# KB14534 Coarse  
**\$28.60**



Cylinder

13/16" x 1-1/4"  
# KB14533 Fine  
Smooth-End\*  
**\$26.65**



Cylinder 9/16" x 3/4"

# KB14522 Coarse  
Smooth-End\*  
**\$26.65**

\*Smooth-end burs cut only on the sides, giving superb control!

## Cutter and rotary tool quality vs. price

To get the best results and longest tool life be sure to choose a good rotary tool and buy the best cutters you can. Cheap rotary tools use either a bulky chuck system or a cheap 4-jaw collet. Bits will not run true in these collets or chucks, resulting in bit run-out that causes vibration and greatly reduces the bit's cutting ability, accuracy and life. All of our rotary tools use precision 3-jaw collets (or an actual Jacobs™ chuck in the #30 Foredom handpiece), resulting in a true-running bit that cuts efficiently, accurately and runs smoothly. All of the bits that we carry are very high quality, true-running bits that will last well when properly used and cared for. Remember - you get what you pay for, so there will always be a trade-off when you see a lower-priced bit. It's a good rule of thumb that the most expensive bits we sell are the most economical in the long run. Diamond burs cost less per running hour than rubies and solid carbide stump burs are a lot less expensive per running hour than high-speed steel (HSS) stump burs.



# Typhoon™ Carbide Burs

Ideal for use on hard and soft wood, acrylic and fiberglass. Their unique structurally-aligned tungsten carbide points leave a smoother finish than other types of tungsten carbide burs. They last longer and don't load up as quickly. Maximum speeds: ¼" shanks 25,000RPM; ⅜" and ½" shanks 35,000RPM. Shown actual size.

## 3/32" Shank

-  *Long Taper 3/16"x 3/4"*  
# KB32119 Fine **\$22.75**
-  *Taper 7/16"x 5/8"*  
# KB32915 Fine **\$22.75**
-  *Flame Taper 5/16"x 1/2"*  
# KB32913 Fine **\$22.75**
-  *Cylinder 5/16"x 1/2"*  
# KB32519 Fine **\$22.75**
-  *Sphere 5/16"*  
# KB32315 Fine **\$22.75**
-  *Bud 5/16"x 3/4"*  
# KB32415 Fine **\$22.75**
-  *Ball Nose 5/16"x 1/2"*  
# KB32719 Fine **\$22.75**

## 1/8" Shank

-  *Long Taper 3/16"x 3/4"*  
# KB18119 Fine **\$22.75**  
# KB18118 Coarse
-  *Taper 5/16"x 1/2"*  
# KB18115 Fine **\$22.75**  
# KB18114 Coarse
-  *Cylinder 5/16"x 1/2"*  
# KB18515 Fine **\$22.75**  
# KB18514 Coarse
-  *Smooth-end Cylinder 5/16"*  
# KB18525 Fine **\$22.75**  
# KB18524 Coarse

**Brass Brush** Cleans Saburrtooth®, Typhoon™ and Dura-GRIT™ Burs. Dense brass bristles remove debris quickly and easily without damaging burs.

# HB58 **\$6.18**

### FAQ: Coarse (red) vs. Fine (blue) - Which one is best?

That depends on your needs. Coarse (red) Typhoon burs are great for roughing out and rapid stock removal. They leave deeper grooves than the Fine (blue) burs, but our sanding cones (page 22) and cushion sanders (page 23) will remove these grooves quickly and easily. Fine burs give a bit more control, but don't cut as fast. Cam likes Coarse for roughing especially in basswood, and Fine for detailed work and working with tupelo.

## 1/8" Shank (continued)

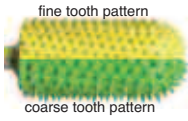
-  *Large Roto-Saw 11/16"*  
# KB18835 Fine **\$22.75**  
# KB18834 Coarse
-  *Small Sphere 5/16"*  
# KB18315 Fine **\$22.75**  
# KB18314 Coarse
-  *Large Sphere 7/16"*  
# KB18339 Fine **\$22.75**  
# KB18338 Coarse
-  *Flame 7/16"x 1/2"*  
# KB18915 Fine **\$22.75**  
# KB18914 Coarse
-  *Bud 5/16"x 3/4"*  
# KB18415 Fine **\$22.75**  
# KB18414 Coarse
-  *Long Ball-Nose 3/16"x 3/4"*  
# KB18719 Fine **\$22.75**  
# KB18718 Coarse
-  *Ball-Nose 5/16"x 1/2"*  
# KB18715 Fine **\$22.75**  
# KB18714 Coarse
-  *Dove Tail 7/16"x 1/2"*  
# KB18639 Fine **\$22.75**  
# KB18638 Coarse

### Hint: Cleaning Typhoon™ Burs

Use a dense brass brush (at left) or a fine, sharp knife blade to remove debris from between the rows of teeth. Typhoon™ burs teeth are in rows, making them easier to clean and less likely to load up. Coarse (red) burs stay clean longer and are easier to clean. For difficult wood or sap build-ups, try soaking Typhoon™ burs for a few hours in oven cleaner and then rinsing in water, followed by brushing with the brass brush. Gummed up fillers or glue can sometimes be softened first by slightly heating the bur with a lighter before brushing (do not use a torch). To avoid damage to burs never use a file card or steel brush to clean burs.

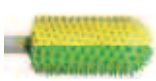
# Saburrtooth™ Carbide Burs

All Cutters shown actual size



The images below show each cutter divided into various available grits. Images are for illustration purposes only; the yellow portion shows what the fine tooth pattern looks like; green shows the coarse tooth pattern and orange shows extra-coarse tooth pattern. Any cutters you order will be a solid colour with only one tooth pattern; for example, the coarse cutter will be solid green, fine will be yellow, etc.) Dimensions below are approximate; images are shown actual size. For full images of each cutter visit our website.

## 3/32" Shank



**Ball-nose Cylinder 1/4" x 2/3"**  
 # SAB32BN14F Fine \$17.80  
 # SAB32BN14C Coarse \$17.80



**Bud 1/4" x 3/4"**  
 # SAB32BUD14F Fine \$17.80  
 # SAB32BUD14C Coarse \$17.80



**Cylinder 1/4" x 1/2"**  
 # SAB32C14F Fine \$17.80  
 # SAB32C14C Coarse \$17.80



**Smooth-end Cylinder 1/4" x 1/2"**  
 # SAB32C14SEF Fine \$17.80  
 # SAB32C14SEC Coarse \$17.80



**Flame 1/4" x 1/2"**  
 # SAB32F14F Fine \$17.80  
 # SAB32F14C Coarse \$17.80



**Flame 3/8" x .6"**  
 # SAB32F38F Fine \$17.80  
 # SAB32F38C Coarse \$17.80



**Sphere 1/4"**  
 # SAB32S14F Fine \$17.80  
 # SAB32S14C Coarse \$17.80

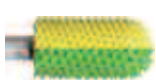


**Roto-Saw 3/8" x 1/8"**  
 # SAB32RS38F Fine \$17.80  
 # SAB32RS38C Coarse \$17.80

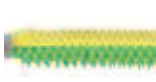


**Taper 1/4" x 3/4"**  
 # SAB32T18F Fine \$17.80  
 # SAB32T18C Coarse \$17.80

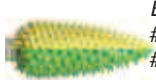
## 1/8" Shank



**Ball-nose Cylinder 1/4" x 2/3"**  
 # SAB18BN14F Fine \$16.65  
 # SAB18BN14C Coarse \$16.65



**Ball-nose Cylinder 1/4" x 3/4"**  
 # SAB18BN18F Fine \$16.65  
 # SAB18BN18C Coarse \$16.65



**Bud 1/4" x 3/4"**  
 # SAB18BUD14F Fine \$17.80  
 # SAB18BUD14C Coarse \$17.80



**Radiused Cylinder 1/2" x 1/2"**  
 # SAB18C12R2F Fine \$19.90  
 # SAB18C12R2C Coarse \$19.90



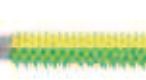
**Smooth-end Cylinder 1/2" x 1/2"**  
 # SAB18C12SEF Fine \$18.45  
 # SAB18C12SEC Coarse \$18.45



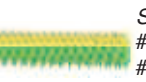
**Cylinder 1/4" x 2/3"**  
 # SAB18C14F Fine \$17.80  
 # SAB18C14C Coarse \$17.80



**Smooth-end Cylinder 1/4" x 2/3"**  
 # SAB18C14SEF Fine \$17.80  
 # SAB18C14SEC Coarse \$17.80



**Cylinder 1/4" x 3/4"**  
 # SAB18C18F Fine \$16.65  
 # SAB18C18C Coarse \$16.65



**Smooth-end Cyl. 1/4" x 3/4"**  
 # SAB18C18SEF Fine \$16.65  
 # SAB18C18SEC Coarse \$16.65



**Dove-tail 3/8" x 1/2"**  
 # SAB18DT38F Fine \$17.80  
 # SAB18DT38C Coarse \$17.80



**Eye Cutter 3/8" x 3/4"**  
 # SAB18EC38F Fine \$17.80  
 # SAB18EC38C Coarse \$17.80



**Flame 1/4" x 1/2"**  
 # SAB18F14F Fine \$17.80  
 # SAB18F14C Coarse \$17.80



**Flame 3/8" x 5/8"**  
 # SAB18F38F Fine \$17.80  
 # SAB18F38C Coarse \$17.80

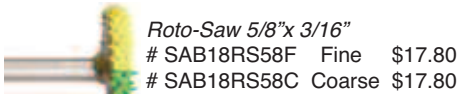


**Roto-Saw 3/8" x 3/16"**  
 # SAB18RS38F Fine \$17.80  
 # SAB18RS38C Coarse \$17.80

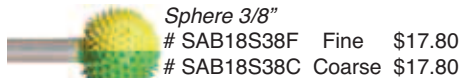
# Saburrtooth™ Carbide Burs

All Cutters shown actual size

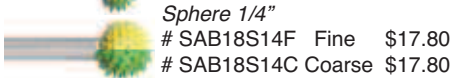
## 1/8" Shank (continued)



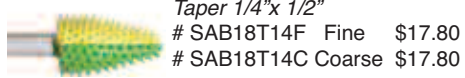
*Roto-Saw 5/8" x 3/16"*  
 # SAB18RS58F Fine \$17.80  
 # SAB18RS58C Coarse \$17.80



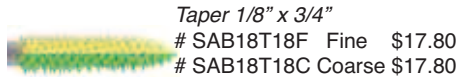
*Sphere 3/8"*  
 # SAB18S38F Fine \$17.80  
 # SAB18S38C Coarse \$17.80



*Sphere 1/4"*  
 # SAB18S14F Fine \$17.80  
 # SAB18S14C Coarse \$17.80

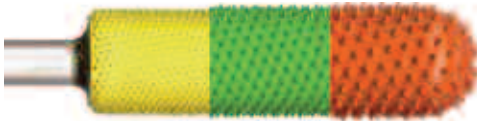


*Taper 1/4" x 1/2"*  
 # SAB18T14F Fine \$17.80  
 # SAB18T14C Coarse \$17.80

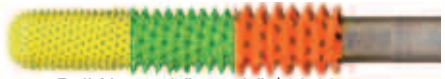


*Taper 1/8" x 3/4"*  
 # SAB18T18F Fine \$17.80  
 # SAB18T18C Coarse \$17.80

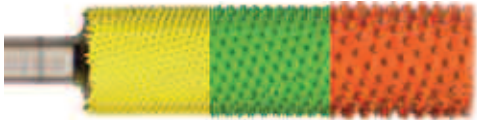
## 1/4" Shank



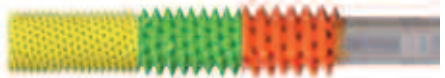
*Ball-Nose 1/2" x 2" \$32.65 ea.*  
 Fine (Yellow) # SAB14BN12X2F  
 Coarse (Green) # SAB14BN12X2C  
 X-Coarse (Orange) # SAB14BN12X2XC



*Ball-Nose 1/4" x 1-3/4" \$20.80 ea.*  
 Fine (Yellow) # SAB14BN14F  
 Coarse (Green) # SAB14BN14C  
 X-Coarse (Orange) # SAB14BN14XC



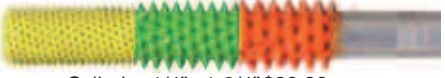
*Smooth-end Cylinder 1/2" x 2" \$24.35 ea.*  
 Fine (Yellow) # SAB14C12X2SEF  
 Coarse (Green) # SAB14C12X2SEC  
 X-Coarse (Orange) # SAB14C12X2SEXC



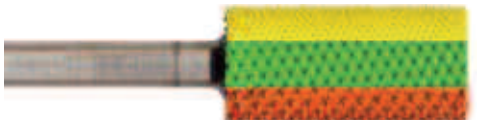
*Smooth-end Cylinder 1/4" x 1-3/4" \$20.80 ea.*  
 Fine (Yellow) # SAB14C14SEF  
 Coarse (Green) # SAB14C14SEC  
 X-Coarse (Orange) # SAB14C14SEXC



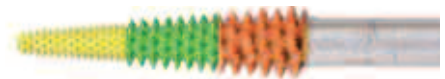
*Cylinder 5/8" x 1-1/4" \$21.95 ea.*  
 Fine (Yellow) # SAB14C58LF  
 Coarse (Green) # SAB14C58LC  
 X-Coarse (Orange) # SAB14C58LXC



*Cylinder 1/4" x 1-3/4" \$20.80 ea.*  
 Fine (Yellow) # SAB14C14F  
 Coarse (Green) # SAB14C14C  
 X-Coarse (Orange) # SAB14C14XC

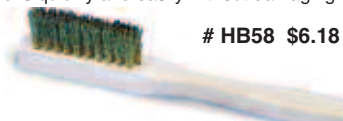


*Smooth-end Cylinder 5/8" x 1-1/4" \$21.95 ea.*  
 Fine (Yellow) # SAB14C58LSEF  
 Coarse (Green) # SAB14C58LSEC  
 X-Coarse (Orange) # SAB14C58LSEXC



*Taper 1/4" x 1-3/8" \$20.80 ea.*  
 Fine (Yellow) # SAB14T14F  
 Coarse (Green) # SAB14T14C  
 X-Coarse (Orange) # SAB14T14XC

**Brass Brush** Cleans Saburrtooth®, Typhoon™ and Dura-GRIT™ Burs. Dense brass bristles remove debris quickly and easily without damaging burs.



# HB58 \$6.18



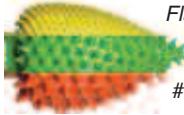
# Saburrtooth™ Carbide Burs

All Cutters shown actual size

## 1/4" Shank



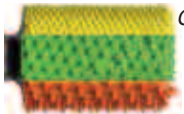
*Flame 3/8" x 3/4"* **\$20.80 ea.**  
# SAB14F38F Fine  
# SAB14F38C Coarse  
# SAB14F38XC X-Coarse



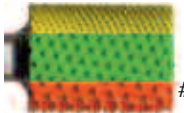
*Flame 1/2" x 3/4"* **\$21.95 ea.**  
# SAB14F12F Fine  
# SAB14F12C Coarse  
# SAB14F12XC X-Coarse



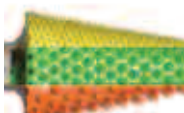
*Ball-Nose 1/2" x 3/4"*  
**\$21.35 ea.**  
# SAB14BN12F Fine  
# SAB14BN12C Coarse  
# SAB14BN12XC X-Coarse



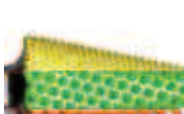
*Cylinder 1/2" x 3/4"* **\$20.80 ea.**  
# SAB14C12F Fine  
# SAB14C12C Coarse  
# SAB14C12XC X-Coarse



*Smooth-end Cylinder 1/2" x 3/4"*  
**\$20.80 ea.**  
# SAB14C12SEF Fine  
# SAB14C12SEC Coarse  
# SAB14C12SEXC X-Coarse



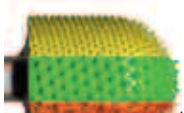
*Taper 1/2" x 1"*  
**\$21.95 ea.**  
# SAB14T12F Fine  
# SAB14T12C Coarse  
# SAB14T12XC X-Coarse



*Smooth-end Taper 1/2" x 1"*  
**\$21.95 ea.**  
# SAB14T12SEF Fine  
# SAB14T12SEC Coarse  
# SAB14T12SEXC X-Coarse



*Sphere 1/2"*  
**\$21.95 ea.**  
# SAB14S12F Fine  
# SAB14S12C Coarse  
# SAB14S12XC X-Coarse



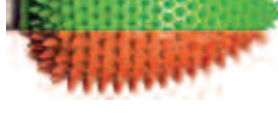
*Ball-Nose 5/8" x 3/4"*  
**\$21.95 ea.**  
# SAB14BN58F Fine  
# SAB14BN58C Coarse  
# SAB14BN58XC X-Coarse



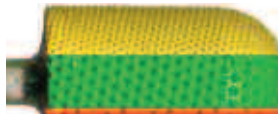
*Sphere 5/8"*  
**\$23.15 ea.**  
# SAB14S58F Fine  
# SAB14S58C Coarse  
# SAB14S58XC X-Coarse



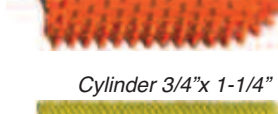
*Flame 3/4" x 1-1/4"* **\$25.55 ea.**  
# SAB14F34F  
# SAB14F34C



*Ball-Nose 3/4" x 1-1/4"* **\$25.55 ea.**  
# SAB14BN34F  
# SAB14BN34C  
# SAB14BN34XC



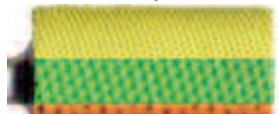
*Cylinder 3/4" x 1-1/4"* **\$24.35 ea.**  
# SAB14C34F  
# SAB14C34C  
# SAB14C34XC



*Smooth-end Cylinder 3/4" x 1-1/4"* **\$24.35 ea.**  
# SAB14C34SEF  
# SAB14C34SEC  
# SAB14C34SEXC



*Roto-Saw 3/4" x 1/4"*  
**\$20.80 ea.**  
# SAB14RS34F Fine  
# SAB14RS34C Coarse  
# SAB14RS34XC X-Coarse



*Dove Tail 3/4" x 1-3/8"* **\$25.55 ea.**  
# SAB14DT34F  
# SAB14DT34C  
# SAB14DT34XC

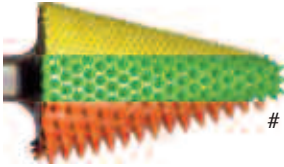


*Smooth-end Dove Tail 3/4" x 1-3/8"* **\$25.55 ea.**  
# SAB14DT34SEF  
# SAB14C58LSEC  
# SAB14DT34SEXC

# Saburrtooth™ Carbide Burs

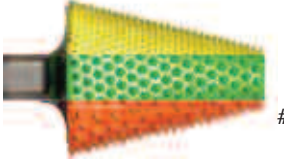
All Cutters shown actual size

## 1/4" Shank



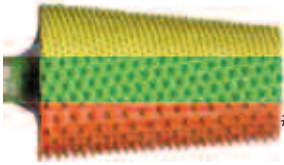
*Taper 3/4"x 1"*  
**\$24.35 ea.**

- # SAB14T34F Fine
- # SAB14T34C Coarse
- # SAB14T34XC X-Coarse



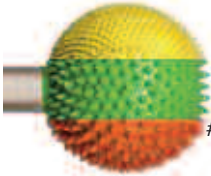
*Smooth-end Taper 3/4"x 1"*  
**\$24.35 ea.**

- # SAB14T34SEF Fine
- # SAB14T34SEC Coarse
- # SAB14T34SEXC X-Coarse



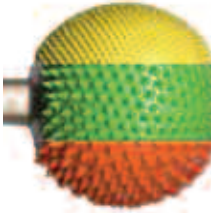
*Smooth-end 5° Taper 3/4"x 1-1/4"*  
**\$29.75 ea.**

- # SAB14T-5-34SEF Fine
- # SAB14T-5-34SEC Coarse
- # SAB14T-5-34SEXC X-Coarse



*Sphere 7/8"*  
**\$25.55 ea.**

- # SAB14S78F Fine
- # SAB14S78C Coarse
- # SAB14S78XC X-Coarse



*Sphere 1"*  
**\$26.75 ea.**

- # SAB14S1F Fine
- # SAB14S1C Coarse
- # SAB14S1XC X-Coarse



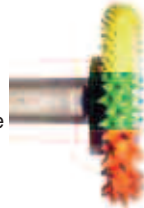
*Radius-end Cylinder 1"x 1"*  
**\$25.55 ea.**

- # SAB14C1R2F Fine
- # SAB14C1R2C Coarse
- # SAB14C1R2XC X-Coarse



*Smooth-end Cylinder 1"x 1"*  
**\$21.95 ea.**

- # SAB14C1SEF Fine
- # SAB14C1SEC Coarse
- # SAB14C1SEXC X-Coarse



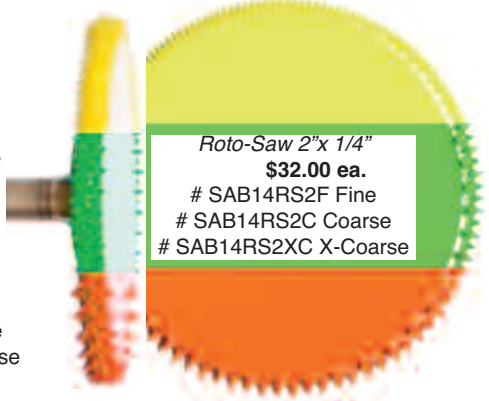
*Roto-Saw 1"x 1/4"*  
**\$21.95 ea.**

- # SAB14RS100F Fine
- # SAB14RS100C Coarse
- # SAB14RS100XC X-Coarse



*Roto-Saw 1-1/4"x 1/4"*  
**\$23.15 ea.**

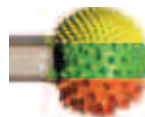
- # SAB14RS125F Fine
- # SAB14RS125C Coarse
- # SAB14RS125XC X-Coarse



*Roto-Saw 2"x 1/4"*  
**\$32.00 ea.**

- # SAB14RS2F Fine
- # SAB14RS2C Coarse
- # SAB14RS2XC X-Coarse

Saburrtooth® and Typhoon™ images in this catalogue show each cutter divided into various available grits. Images are for illustration purposes only; the yellow portion shows what the fine tooth pattern looks like; green shows the coarse tooth pattern and orange shows extra-coarse tooth pattern. Any cutters you order will be a solid colour with only one tooth pattern; for example, the coarse cutter will be solid green, fine will be yellow, etc.) Dimensions shown are approximate; images are shown actual size. For full images of each cutter visit our website.



- fine tooth pattern "F"
- coarse tooth pattern "C"
- extra-coarse tooth pattern "XC"

# Power Carving - Texturing

Over the years our selection of texturing burs has grown to include tools ranging from very coarse to extremely fine, allowing you to create any kind of texture you want in almost any material you may want to carve. Most texturing burs work best at higher RPM's. I prefer to use at least 35,000RPM; 50,000RPM is even better if your machine will run that fast. All burs have 3/32" shanks. Following is a brief primer on the various options we offer:

**"V" Stones.** These are the hardest and most aggressive stones we carry. They can be used on almost any material including all metals, ceramic tile, porcelain, wood, acrylic, glass, marble and many types of stone. On softer materials like wood they can be used for shaping, carving or texturing and they last almost indefinitely.

**CeramCut Blue Stones.** Most of our customers use these for general texturing and smoothing of all types of wood. They also work well on hard metals and porcelain. Generally more aggressive than natural (white, brown or green) stones.

**Green (natural) Stones.** Very similar to brown stones - usually just slightly less aggressive, but a good choice for general texturing in medium carving woods and for gentle carving/shaping in softer carving woods like tupelo.

**Brown (natural) Stones.** A good choice for general texturing and delicate shaping/carving in basswood and other medium carving woods. Reasonably aggressive for texturing.

**White (natural) Stones.** Most often used for texturing tupelo and other soft carving woods. On basswood they texture gently - ideal for subtle texture, especially on miniature carvings where texture needs to be subtle.

**Ceramic Texturing Sticks.** Depending on the grit, you can use these sticks for everything from carving harder woods (ie holly or ebony with 120 grit) to very delicate texturing on a soft piece of tupelo with the 1200 grit. For starters, try a 300 grit and an 800 grit. Ceramic texturing sticks have become one of those "must-have" items for many carvers (including Cam).

All stones and texturing sticks can be shaped and trued with our diamond hone # 10343 on [pages 36 & 38](#).

If you are not sure which option is best for you, please give us a call and we'll help you figure it out.

**"V" Stones.** Very aggressive vitrified aluminum oxide stones that cut virtually any material except hard stone. Very cool-running and long-lasting. At approximately 80 grit, they are the most aggressive stones made. Can be used to shape, texture and detail carvings. An economical alternative to diamond burs.

**\$4.88 each**



All stones are shown actual size

**CeramCut Blue™ Stones.** Made from ceramic, they are very uniform and hard. They dress to a very nice shape, they cut better and they last a lot longer than conventional stones.

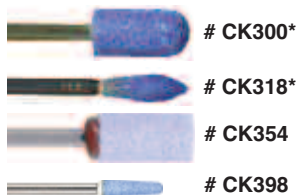
**\$3.58 each**

## Fine (120) Grit



All stones are shown actual size

## Medium (80) Grit



## Coarse (60) Grit



\* included in HK29 set (below)



**Set of 9 CeramCut stones in a plastic case**  
**CK300, CK301, CK302, CK318, CK322, CK332, CK342, CK352 & CK392**  
**# HK29 \$31.98**

# Power Carving - Texturing Stones

## Green Texturing Stones

**\$3.25 each**



All stones are shown  
actual size

## Brown Texturing Stones

**\$3.25 each**



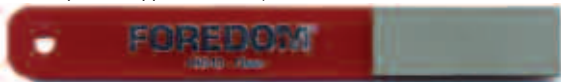
## White Texturing Stones

**\$3.25 each**



## Diamond Hone

Fine hone is great for dressing and shaping texturing sticks and all stones including "V" stones, white, green, brown and Ceramcut Blue. Simply run the spinning stone into the diamond hone to reshape. Can also be used to sharpen carbide. Overall approx. 6" x 3/4" (diamond plate is approx. 2" x 3/4"). # 10343 **\$11.64 ea.**



## Ceramic Texturing Sticks



(Shown Actual Size)

Solid 3/32" diameter ceramic abrasive sticks will fit directly into your rotary tool. Each end can be shaped (dressed) with our diamond hone #10343 (above) in much the same way as conventional texturing stones. Ceramic sticks will outlast conventional stones by many times - and when the edge wears down, you simply re-dress the stick, making it a bit shorter. Because they are uniform in diameter, they are absolutely vibration-free and they cut cleaner and smoother than any other texturing tool. Ceramic sticks can be dressed down to a very fine point - much finer than any stone. Available in 8 grits from #120 for delicate yet controlled wood removal (great for bills and eye areas) to #1200 for very fine texturing in softer woods like tupelo. Coarser grits work very well when shaped to a flame or point and used much like a ruby or diamond. Finer grits can be shaped to very small cylinders or tapers for extremely fine detail work. Surface clean-up can be done quickly and easily with a fine bristle disk (page 37) for amazing results! Sticks can also be cut in half using a cut-off wheel (page 37), giving you 4 ends to shape instead of 2.

Grit	Colour	Item#
120	Emerald	CS0120
180	Gold	CS0180
300	Lt. Brown	CS0300
400	Lt. Orange	CS0400
600	Dk. Brown	CS0600
800	Blue	CS0800
1000	White	CS1000
1200	Red-orange	CS1200

**\$21.95 ea.**

# Power Carving - Specialty Abrasives

## Scotchbrite™ Radial Bristle Discs (shown actual size)



9/16"



3/4"

Scotch-Brite™ Radial Bristle discs are perfect for fine smoothing and polishing almost any material. Flexible plastic discs with embedded abrasive follow contours and smooth gently. Properly used, they will outlast most other abrasives. Great for de-fuzzing most woods as well as for polishing harder woods

Grit Size	Uses	Colour	9/16" \$12.35/pkg 6	3/4" \$12.35/pkg 6
80	Fast smoothing	Yellow	N/A	FOR4511-6
120	Fast smoothing	White	FOR4522-6	N/A
220	Light smoothing aggressive de-fuzzing	Red	FOR4523-6	FOR4513-6
400	De-fuzzing, de-burring, pre-polishing	Blue	FOR4524-6	FOR4514-6
Pumice (~1,200)	Light polishing, de-burring, scratch removal	Pink	FOR4526-6	FOR4516-6
6 Micron (~3,000)	Final polishing buffing	Peach	FOR4527-6	FOR4517-6
1 Micron (~14,000)	Very fine polishing fine buffing	Green	N/A	FOR4518-6
10-piece 3/4" set includes 1/8" mandrel, 3 each of 80, 400 and 6-Micron discs. # FOR88382 \$20.74				
10-piece 1" set includes 1/8" mandrel, 3 each of 36, 80 and 120 discs. # FOR88381 \$32.76				

and metals. Best used with 3 or 4 discs stacked together. Available in 9/16" or 3/4" diameters, and in 6 different grits. Colour-coded for convenience. \$12.35 per package of 6 (either size). Use with M1, M6, or M10 Mandrels, sold separately (page 23). 2" Radial Bristle discs are also available to fit the Foredom angle grinder (page 16).

## Rotary Brushes, Felt and Cloth Buffers and Cut-off Wheels

All Shown  
Actual Size



MB25

9/16" Black Bristle Brush for cleaning, polishing. (3/32" shank) # MB25 \$2.54



MB7

3/4" Fine Steel Brush for de-burring and cleaning. (3/32" shank) # MB7 \$3.58



MB6

3/4" Brass Brush for cleaning, de-burring. (3/32" shank) # MB6 \$4.29



MB838

1" Fine Steel Brush for cleaning and de-burring. (1/8" shank) # MB838 \$4.88



GC1101310

Cut-off  
Wheel

3/4"x.025", 220 grit Corundum cut-off wheel cuts most metals. (fits Mandrels M1, M6 or M10. page 23) # GC1101310 \$20.75/ box of 100



FORKE5

1.5" Knife-edge hard felt wheel (fits Mandrels M100 or M7 pg.23). # FORKE5 \$7.15



SE3RH

1" Square-edge hard felt wheel (fits Mandrels M100 or M7 pg.23). # SE3RH \$1.69



FORCB2

1" Stitched cotton buffing wheel. (fits Mandrels M100 or M7 pg.23). # FORCB2 \$2.60

## Polishing Compound Set of 4 compounds with instructions and one each of:

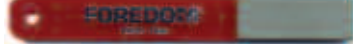
- emery (black): coarse, very fast cutting, for scratches on iron and steel. Not for gold or silver.
- tripoli (brown): general purpose. Good for most metals and many plastics. Useful for sharpening.
- white rouge: fast-cutting, high gloss finish. Great on plastics and hard metals.
- red rouge: excellent for final polish on precious metals and for a very fine edge on cutting tools.

# 4000 (set of 4 compounds) \$14.95



# Power Carving - Specialty Abrasives (cont.)

## Diamond Hone



Fine hone is great for dressing and shaping texturing sticks and all stones including "V" stones, white, green, brown, and Ceramcut Blue (pages 35 & 36). Simply run the spinning stone into the diamond hone to reshape. Can also be used to sharpen carbide. Overall approx. 6"x 3/4" (diamond plate is approx. 2"x 3/4"). # 10343 **\$11.64 ea.**

## Ultra-Brite® Abrasive Pads for de-fuzzing

6" x 9" maroon abrasive pads are very versatile. As hand pads, they clean and leave a satin finish on most metals. Carvers use them to smooth bare wood and lacquer or varnish finishes. Cut them into 1" to 1.5" discs, mount two or three on a mandrel (M1, M10, or M6 page 23) and you've got a fantastic de-fuzzing wheel for smoothing basswood or tupelo (keep RPM's below 10,000). Cuts with regular scissors. # DH0700 **\$1.75/ sheet**

## Micro Abrasive Sheets

9" x 12" micro abrasive sheets can be used for stropping and polishing most metals. Great for making your own strops for knives, gouges, chisels, and "V" tools. Attach to a smooth, clean surface with double-sided tape or spray adhesive and use dry. 0.5 micron abrasive is equivalent to 9000 grit. # GR9000 **\$3.75/ sheet**

## Rubber-bonded Polishing Wheels and Rods

We carry a good selection of metal polishing wheels and rods which use rubber-bonded abrasives. They are great for de-burring and preparing all metals used in habitat construction. For our complete selection, visit our online store at [www.razertip.com](http://www.razertip.com) and search for "polishing".

# Bandsaw Blades

Bandsaws are one of the least understood machines that carvers use. Having the right blade can make a huge difference in the ease of cutting out your blanks. The Olson blades we sell are 3/16" deep, 4 teeth per inch (TPI), skip tooth. To demonstrate their great ability to cut curves, you can trace a dime on a thick block of wood and then cut entirely around *inside* the dime profile. Olson blades are very sharp, smooth cutting (for a 4TPI blade), and long-lasting. Each blade is precision-welded and guaranteed against defective welds. Available from stock in common sizes listed below. Other sizes are available by special order.



*Is your blade size not listed here? Give us a call and we'll get the right size for you. It's still covered by our satisfaction guaranty and can be returned if you don't like it. If you do like it, we'll be happy to add your blade size and keep them in stock for you.*

Length	Item #	Price	Length	Item #	Price	Length	Item #	Price
56-1/8"	BLADE316.56	21.15	78"	BLADE316.078	24.55	101"	BLADE316.101	24.55
57"	BLADE316.57	21.15	80"	BLADE316.080	24.55	104.5"	BLADE316.1045	25.95
59"	BLADE316.59	23.35	82"	BLADE316.082	24.55	105"	BLADE316.105	25.95
60"	BLADE316.60	23.35	88"	BLADE316.88	24.55	105.5"	BLADE316.1055	25.95
62"	BLADE316.62	23.35	91"	BLADE316.091	24.55	106.5"	BLADE316.1065	25.95
67"	BLADE316.67	23.35	92.5"	BLADE316.925	24.55	111"	BLADE316.111	25.95
70.5"	BLADE316.705	24.55	93.5"	BLADE316.935	24.55	132"	BLADE316.132	25.95
71-3/4"	BLADE316.7175	24.55	94.5"	BLADE316.945	24.55	133"	BLADE316.133	25.95
72.5"	BLADE316.725	24.55	99.75"	BLADE316.9975	24.55	145"	BLADE316.145	25.95
			100"	BLADE316.100	24.55			

Custom sizes available - Call for pricing and delivery

See page 96 for "The New Complete Guide to the Bandsaw" # BK3188 **\$23.95**

# Sanding Sticks and Blocks

## Sanding Sticks and Blocks

Very handy sanding sticks - available in 1/2" and 1" widths. Uses 11" long strips of sandpaper. Easy to load and use. Paper is held very firm. End tapers to a nice point. Works very well to smooth out growth rings on working decoys. A super-useful item! 10" long overall.

1/2" # FORZ-37-770 \$12.94

1" # FORZ-37-750 \$12.94



These great spring-loaded sanding blocks use a small belt - easily made from sandpaper of your choice with the 1" super-bond tape (sold below). Easy to load and re-position for long paper life. Works on flat and concave surfaces; a real time-saver! Available in 3/4" and 1/2" widths.

3/4" # FORZ-37-790 \$6.44

1-1/2" # FORZ-37-795 \$7.74

5-1/4" overall length. Supplied with one paper belt.

## Small Sanding Sticks and Belts



These small sanding sticks are useful for all kinds of clean-up work on carvings of almost any size. Available in 5 different grits - each one colour-coded for easy identification of the different grits. Each stick comes with one belt installed. Belts are easily replaced by pushing on a spring-loaded mechanism that makes the stick shorter. Belts can also be rotated slightly to expose fresh grit on the pointed end of the stick. Actual size of stick is shown at right.

Sanding Sticks are \$4.30 each  
Replacement belts are \$13.95 /pkg 10

Grit	Handle Colour	Stick Item #	Pkg of 10 Replacement Belts Item #
120	Red	GC11571	GC11576
240	Blue	GC11572	GC11577
320	Green	GC11573	GC11578
400	Yellow	GC11574	GC11579
600	Black	GC11575	GC11580

**Super-Bond tape** for making belts from almost any sandpaper. 1" x 36 yd. Very sticky, very strong.

**Hint:** Sanding belts and blocks can easily be cleaned using a crepe block, like our Item # CLN on page 25. Simply rub the crepe briskly over the sandpaper surface to remove build-up. A crepe block also works great on ruby carvers, sanding drums and disks.

**Safety Tape.** Protect your fingers from cuts and abrasions with this easy-to-use, comfortable tape. Can be re-used several times before discarding. Roll is 2" wide x15' long # FORA-6102 \$4.50/roll

## Knife Care

With any sharp tool it is important not to carve into wood after it has been sanded and to be very careful that the blade is kept protected at all times when not in use. Keep the knife well away from sandpaper that might be laying on your workbench and always be sure that the blade is sheathed or covered when transporting the knife in a toolbox. Never use the blade on anything other than clean, sound carving wood. Driftwood is brutal on fine blades; use disposable blades or abrasive power cutters for carving driftwood. It's a good idea to occasionally run fine blades over a strop. Don't wait until the blade gets dull - regular stropping before the blade dulls will keep the keen edge a lot longer.

Shown actual size



# Hand Tools

**Cape Forge Knives.** We are very pleased to carry these USA-made knives - quite possibly the best carving knives made today. Each knife is individually forged from W1 or W2 tool steel (many other blades start as steel strips), shaped and triple heat-treated to Rockwell 62C for unmatched edge-holding capability. Cape Forge knives have an unconditional guaranty - these tools are designed to last a life-time! *Note: Because each knife is hand-made, blade shapes may vary slightly from the illustrations. Other shapes, including custom blade or handle shapes are available by special order (contact us if interested). Lots more information on Cape Forge and their knives at [www.capeforge.com](http://www.capeforge.com).*

Handle Shapes	Blades Shown Actual Size (Bottom Edge is Sharp Edge)
	<b>1</b> #CF1 General Use \$50.00
	<b>2</b> #CF2 General Use \$50.00
	<b>3</b> #CF3 Detail Wedge 1" \$50.00
	<b>4</b> #CF4 Detail Upcurve 1.5" \$50.00
	<b>4S</b> #CF4S Detail Upcurve 1" \$50.00
	<b>5</b> #CF5 Skew 1.5" \$50.00
	<b>6</b> #CF6 Dual Edge \$50.00
	<b>7</b> #CF7 Detail Wedge 1" \$50.00
	<b>9</b> #CF9 General Use \$50.00
	<b>10</b> #CF10 General Use \$50.00
	<b>12</b> #CF12 Slender Detail \$50.00

**Leather sheath** Fits any blade above #CFSHEATH \$3.50



# Glue & Epoxy Putty

## Rapid Grip CA (Cyanoacrylate) Glue

Sometimes called super glue, CA glue is very versatile and popular for many applications from general repair to strengthening and fabrication. Rapid Grip CA glue is a premium high-quality glue that forms a very strong, permanent bond with almost any material.

**Thin:** Fast-cure, water-thin CA for soaking and strengthening wooden parts (bills, toes) and for gluing non-porous items (ceramic, plastics, etc.). Will wick into hairline cracks.

**Medium:** Fast-cure, general purpose for most gluing needs including most wood, leather, etc. Slight gap-filling ability.

**Thick:** Medium-cure, for building up and gluing porous materials. Great gap-filling ability allows gluing of surfaces that don't conform well and dis-similar materials.

**Accelerator:** Available in 2 oz. pump spray bottle. Instantly cures all CA glues on contact. Particularly useful with thick CA glue for gap-filling and building up thick areas.



Item #	Description	Price	Item #	Description	Price
RG100-1/2BO	THIN 1/2 oz. w/brush	6.95	RG200-4	MEDIUM 4 oz.	19.95
RG100-1	THIN 1 oz.	5.75	RG300-1/2BO	THICK 1/2 oz. w/brush	6.95
RG100-2GR	THIN 2g. tube	1.00	RG300-1	THICK 1 oz.	5.75
RG100-4	THIN 4 oz.	19.95	RG300-4	THICK 4 oz.	19.95
RG200-1/2BO	MED. 1/2 oz. w/brush	6.95	RGZAP-100	Activator Spray Bottle 2 oz.	10.95
RG200-1	MEDIUM 1 oz.	5.75			

## Jeweller's Epoxy Glue (1 fl. oz. kit)

This is one of the best general-purpose epoxy glues we have used. It is a high-quality epoxy that dries quite clear and bonds very well to almost any surface. It sets up in 4 minutes. Ideal for setting tubing into habitat and for re-attaching lower mandibles on fish, bird and whale carvings, as well as any application where a relatively fast, permanent gap-filling glue joint is required. Mix equal amounts of parts A and B.

# GC120451 \$6.95



## FAQ: How do I decide what type of glue is best?

**A.** Generally speaking, epoxy is best for filling gaps and potting things (like brass tubing in a base for example - just be sure to plug the end of the tubing before potting it into epoxy). Epoxy bonds to metal better than CA glue. Because it is a chemical cure (most epoxies will even cure underwater) it will set up even deep into a hole or inside the item being glued - or in green or damp wood. CA glue doesn't set well in a deep hole or where it doesn't have access to the air. You can even mix sawdust with epoxy to make a paste that varies in consistency from syrup-like to peanut-butter - or even thicker and use it like a putty or paste.

CA glue also has many great uses. Thin CA is great for soaking (unfinished) delicate wooden parts like pointed bird beaks to strengthen them. Medium and thick CA can be used to quickly glue most materials together. If you break off a piece of your woodcarving, it can be put back into position and a drop of thin or medium CA applied for a repair that's nearly invisible. CA glue joints tend to be much thinner than epoxy joints. Both CA and epoxy accept paint well (especially when sealing with KT Sealer). CA and epoxy can be used on the same glue joint with no problem - for example you might wish to quickly tack something together with CA glue and then fill in any gaps with epoxy. Just be sure that the CA glue is dry before applying the epoxy. Still have questions? Give us a call and tell us what you want to do; we'll advise you on the best product for your application (even if it's a product we don't carry....).

## Quickwood Epoxy Wood Filler

An easy to use 2-part epoxy putty - very popular for setting eyes, building up feet and making habitat. Much faster setup time than Aves® (next page) for those times when you're in a bit of a hurry (like the evening before the big competition). Great for small patching jobs. Will not shrink or crack. Can be carved, sanded or drilled when hard. Supplied in 2oz (55g) tube. # QWOOD \$11.95



# Epoxy Putty (continued)

## Aves® Apoxie® Sculpt Epoxy Putty



2-part epoxy has a putty-like, smooth consistency, and is easy to mix and use. It is safe and waterproof with 0% shrinkage or cracking. Ample working time up to 2-3 hrs. Cures hard in 24 hrs.  
 1/4 lb. # AV-AS025 **\$12.85**  
 1 lb. # AV-AS1 **\$22.70**

## Aves® Safety Solvent



Great for smoothing, feathering, texturing and cleaning all types of uncured epoxy products from tools and brushes. Water clean-up. Very low odour and fumes.

Cam uses it whenever he works with epoxy putty.

1 oz. bottle # AV-SS1 **\$6.10**  
 4 oz. bottle # AV-SS4 **\$11.90**

## Aves® Power Pack



A perfect way to try Aves products. Pack contains 1/4 lb each. Apoxie® Sculpt, Apoxie® Clay and

Fixit® Sculpt as well as 1 fl. oz. ea Apoxie® Paste and Aves® Safety Solvent. # AV-PP **\$42.50**

## Aves® Apoxie® Paste



Thinner than putty, thicker than epoxy glue. Fills gaps. Ideal for spreading and filling when putty is too thick. 1-3 hour working time; 24 hour cure. 1 oz. tube. # AV-AP1 **\$11.15**

## Aves® Apoxie® Clay Epoxy



Apoxie® Clay is the ultimate permanent, self-hardening synthetic clay. It combines the features and benefits of sculpting clay with those of epoxy. It offers enhanced detail properties, plasticity, accuracy and handling features, making it very user friendly. Apoxie® Clay offers superior modeling, impressions and detail finishing, with a flat skin-like texture.

1 lb. # AV-AC1 **\$25.65**

## Aves® Critter Clay™ Self-Hardening Clay



#1 choice of taxidermists and professionals worldwide because of its great detail, fine texture and low shrinkage rate. Air dries to a hard finish. It is a lightweight, extra strong, ready to use, moist, water-based modeling clay.

Safe, non-shrinking, non-cracking and non-hazardous. Accepts all paints. Critter Clay™ is used in wildlife art studios, museums, schools and motion picture studios.

1 lb. # AV-CC1 **\$9.45**  
 5 lb. # AV-CC5 **\$22.70**

## A+B Epoxy Putty



This is an excellent 2-part putty - known for its easily workable properties. It hardens in approx. 1 hour, faster than Aves® but slower than Quickwood. 7 oz. (198.5g) kit contains equal amounts of parts A and B. Colour: White.

# AB07 **\$14.25**

## EpoxyBond™ 2.5 oz. kit

This white general purpose epoxy putty gives 10-15 minutes working time. Sets in 1.5 hours or so. Water soluble before setting. Great for eyes and feet.



# EB25 **\$9.05**

## Yellow-Blue Epoxy Ribbon

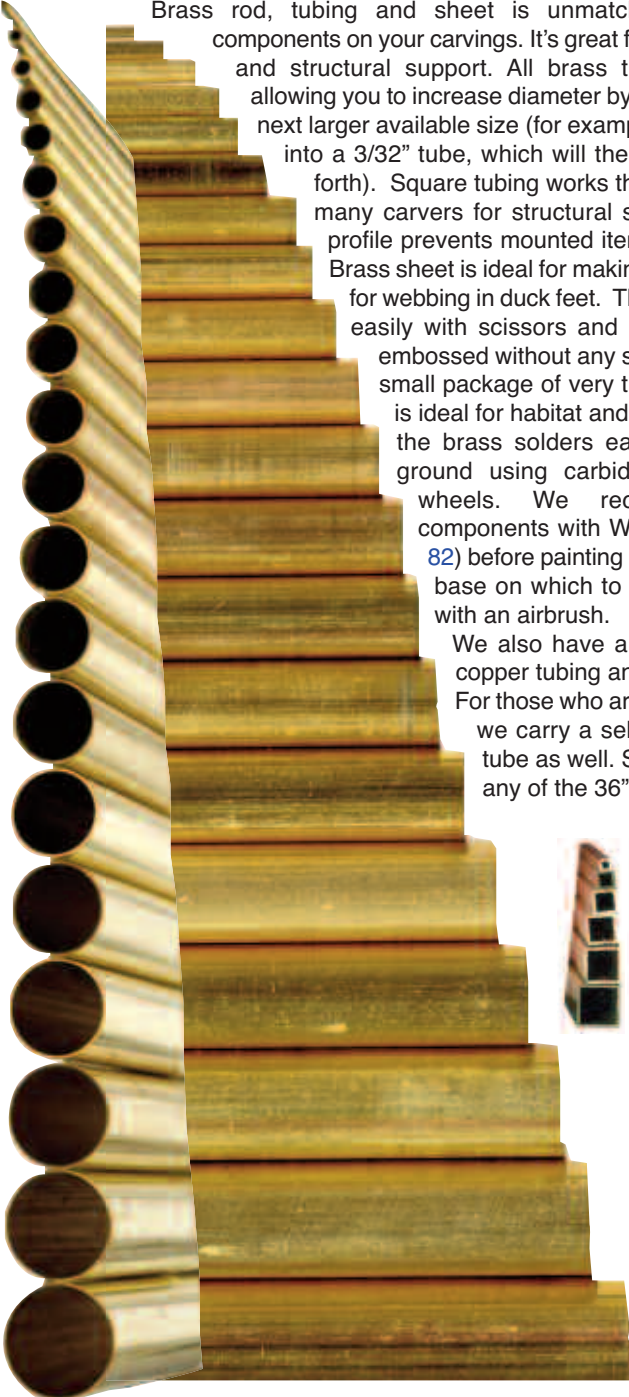


The choice of many pro's. This 2-part putty is supplied in ribbon form; simply cut off a small piece and knead the yellow and blue sides into each other. Forms a green-coloured putty that stays flexible even when hard. Very popular for feet and toes as well as setting eyes. Takes very fine detail. 15-20 min. working time; hardens in 1.5 hours or so. 1.1 oz (30g) ribbon. # EPGR30 **\$7.15**

### FAQ: Are there any fillers that I can burn detail into?

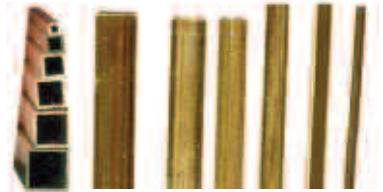
**A:** Short answer: no. Now, before you go sending me an email telling me about the latest greatest filler that you just burned detail into, let me explain. *All* wood fillers and epoxies contain mostly synthetic (ie. plastic) components that will at best melt, or more likely disintegrate when heated hot enough to burn wood. Some fillers contain a percent of natural wood fibre, but there is still lots of plastic in them to melt. They get all squishy (pardon the technical term) when heated. This causes the glue to pull out of the mated wood surfaces in between burn lines, making the joint apparent. In my experience, there is no truly burnable filler (believe me, I've tried them all). That being said, some carvers have achieved limited success using a woodburning tip that has a bit of a bur on its edge, at very low heat. Basically they have been scratching the filler, not burning it. Temperature is critical here - just a bit too hot and you have a mess. Unfortunately a sharp, shiny tip like we supply on new Razertip pens won't give very good results in filler - you would have to scratch the tip up first. Best - and safest results are obtained by stoning texture into epoxy using ceramic sticks or texturing stones. In areas adjacent to neck joints it works well to incorporate a mixture of stoning and burning as you get closer to the joint itself. It is always best to keep a hot burning tip away from any glue or putty joints.

## Metal Rod, Tubing and Sheet



Brass rod, tubing and sheet is unmatched for making structural components on your carvings. It's great for bird feet, branches, leaves and structural support. All brass tubing and rod telescopes, allowing you to increase diameter by inserting rod or tube into the next larger available size (for example, a 1/16" rod or tube will fit into a 3/32" tube, which will then fit into a 1/8" tube and so forth). Square tubing works the same way, and is used by many carvers for structural support because its square profile prevents mounted items from rotating in the tube. Brass sheet is ideal for making leaves and loose bark and for webbing in duck feet. The .002" and .005" brass cuts easily with scissors and is easily bent, formed, and embossed without any special tools. We also offer a small package of very thin brass (.001" - .005") that is ideal for habitat and very nice to work with. All of the brass solders easily and can be carved or ground using carbide cutters or small cut-off wheels. We recommend sealing brass components with White KT Super-Sealer ([page 82](#)) before painting - the KT Sealer gives a super base on which to paint with acrylics or oils or with an airbrush.

We also have a selection of aluminum and copper tubing and sheet material available. For those who are able to pick up their orders, we carry a selection of 36" brass rod and tube as well. Sorry, we are not able to ship any of the 36" items.



# Brass Rod and Tubing

Round Brass Tube (12" lengths)			Solid Brass Rod (12" lengths)		
Size	Item #	Price	Size	Item #	Price
1/16" (3 pcs/pkg) (1/32" inside)	KS1251	4.25/pkg	.020" (5 pcs/pkg)	KS1596	2.45/pkg
3/32" (3 pcs/pkg) (1/16" inside)	KS1268	4.40/pkg	1/32" (.031") (5 pcs/pkg)	KS1602	2.45/pkg
1/8" (3/32" inside)	KS0127	1.95 ea.	3/64" (.046") (4 pcs/pkg)	KS1619	2.45/pkg
5/32" (1/8" inside)	KS0128	2.35 ea.	1/16" (.063") (3 pcs/pkg)	KS1626	2.65/pkg
3/16" (5/32" inside)	KS0129	2.65 ea.	.072" (3 pcs/pkg)	KS1695	3.00/pkg
7/32" (3/16" inside)	KS0130	2.85 ea.	.081" (3 pcs/pkg)	KS1688	4.05/pkg
1/4" (7/32" inside)	KS0131	3.30 ea.	3/32" (.094")	KS0163	1.50 ea.
<b>9/32" (1/4" inside)</b>	KS0132	3.65 ea.	.114" (2 pcs/pkg)	KS1671	4.25/pkg
5/16" (9/32" inside)	KS0133	4.05 ea.	1/8" (.125")	KS0164	2.35 ea.
11/32" (5/16" inside)	KS0134	4.40 ea.	5/32" (.156")	KS0165	3.00 ea.
3/8" (11/32" inside)	KS0135	4.60 ea.	3/16" (.188")	KS0166	4.05 ea.
13/32" (3/8" inside)	KS0136	5.00 ea.	<b>Round Brass Tube and Rod (36" Lengths)</b> <i>Pick-up only - sorry, we cannot ship 36" items.</i>		
7/16" (13/32" inside)	KS0137	5.20 ea.			
15/32" (7/16" inside)	KS0138	5.40 ea.	1/16" Tube	KS1143	4.40 ea.
1/2" (15/32" inside)	KS0139	5.70 ea.	3/32" Tube	KS1144	4.60 ea.
17/32" (1/2" inside)	KS0140	6.20 ea.	1/8" Tube	KS1145	5.20 ea.
9/16" (17/32" inside)	KS0141	6.55 ea.	5/32" Tube	KS1146	6.20 ea.
19/32" (9/16" inside)	KS0142	6.70 ea.	1/16" Rod (2 pcs/pkg)	KS1160	5.00/pkg
5/8" (19/32" inside)	KS0143	7.15 ea.	3/32" Rod	KS1161	4.40 ea.
21/32" (5/8" inside)	KS0144	7.50 ea.	1/8" Rod	KS1162	6.35 ea.
1/8" (2 pcs/pkg) Soft Brass (easy to bend)	KS1213	3.65/pkg	5/32" Rod	KS1163	8.30 ea.

## Stay-Brite™ Lead-free Silver Bearing Solder



This is the best solder I've found for overall workability, ease of use and strength. Sold as a starting kit with a small 1/2 oz. bottle of flux and 1/2 oz. of Stay-Brite silver solder. Solder is also available by the foot (should always be used with flux). It's great for soldering brass and copper to make feet and toes as well as for making branches and other habitat items. Can be used with a regular soldering iron, but is up to 4 times stronger than regular electrical solder. Its characteristics reduce the likelihood of previously soldered parts falling off when soldering more parts.

Solder/flux kit # GC54452 **\$51.00**

Stay-Brite Solder 1/16" dia., sold per foot # GC54456-1 **\$4.00/foot**

# Brass Tube, Sheet and Strips

Square Brass Tube (12" lengths)			Brass Sheet (cont.)		
Size	Item #	Price	.002" 5"x7" (3 sheets)	KS6101	8.65/pkg
1/16" (2 pcs/pkg) (1/32" inside)	KS1497	4.05/pkg	.002" 12"x30" Roll	KS6005	24.10/roll
3/32" (2 pcs/pkg) (1/16" inside)	KS1503	4.60/pkg	Brass Strips (12" lengths)		
1/8" (3/32" inside)	KS0151	2.85 ea.	.016" x 1/4"	KS0230	1.50 ea.
5/32" (1/8" inside)	KS0152	3.00 ea.	.016" x 1/2"	KS0231	1.70 ea.
3/16" (5/32" inside)	KS0153	3.30 ea.	.016" x 3/4"	KS0233	1.95 ea.
7/32" (3/16" inside)	KS0154	3.45 ea.	.016" x 1"	KS0232	2.65 ea.
1/4" (7/32" inside)	KS0155	3.90 ea.	.016" x 2"	KS0234	4.60 ea.
Rectangular & Hexagon Brass Tube (12")			.025" x 1/4"	KS0235	1.70 ea.
3/32" x 3/16" Rect.	KS0262	5.20 ea.	.025" x 1/2"	KS0236	2.10 ea.
1/8" x 1/4" Rect.	KS0264	6.40 ea.	.025" x 3/4"	KS0238	2.85 ea.
5/32" x 5/16" Rect.	KS0266	6.55 ea.	.025" x 1"	KS0237	3.90 ea.
3/16" x 3/8" Rect.	KS0268	6.75 ea.	.025" x 2"	KS0239	7.35 ea.
3/32" Hexagon	KS0271	2.65 ea.	.032" x 1/4"	KS0240	1.95 ea.
1/8" Hexagon	KS0272	3.00 ea.	.032" x 1/2"	KS0241	2.50 ea.
5/32" Hexagon	KS0273	5.00 ea.	.032" x 3/4"	KS0243	3.65 ea.
3/16" Hexagon	KS0274	5.20 ea.	.032" x 1"	KS0242	4.60 ea.
Brass Sheet			.032" x 2"	KS0244	9.30 ea.
4-Assorted: 3"x6": .001", .002", .003" & 4"x4" .005"	KS0258	6.95/pkg	.064" x 1/4"	KS0245	2.50 ea.
4"x10" .005"	KS0250	4.40 ea.	.064" x 1/2"	KS0246	4.90 ea.
4"x10" .010"	KS0251	5.40 ea.	.064" x 3/4"	KS0247	6.95 ea.
4"x10" .015"	KS0252	8.05 ea.	.064" x 1"	KS0248	9.40 ea.
4"x10" .032"	KS0253	15.40 ea.	.064" x 2"	KS0249	17.35 ea.

## Self-locking tweezers

Just the thing for holding metal parts together for soldering. Squeeze the handle to open the jaws; they clamp shut on their own. Wooden handles keep fingers cool. I would be lost without a few of these in my shop.



# GC570373 \$4.95

Shown actual size (overall length is 6 1/2")

# Aluminum, Copper and Tin

While brass is by far the best and most popular material for making feet and habitat, we occasionally get requests for other materials. Aluminum is ideal for making armatures for clay models (copper and brass can react and discolour many types of clay). Copper tube and sheet is also nice for habitat construction and we offer it here for those who prefer to use copper. Tin sheet can be used for inlay, embossing or punching and is not as prone to tarnishing as brass or copper. Tin and aluminum are not suitable to solder, but can be glued with epoxy glue.

Aluminum Tube (12" lengths)			Aluminum Sheet		
Size	Item #	Price	Size	Item #	Price
1/16" (3 pcs/pkg) (1/32" inside)	KS1008	2.85/pkg	4" x 10" .016"	KS0255	2.85 ea.
3/32" (3 pcs/pkg) (1/16" inside)	KS1015	3.00/pkg	4" x 10" .032"	KS0256	3.65 ea.
1/8" (3 pcs/pkg) (3/32" inside)	KS1022	3.45/pkg	4" x 10" .064"	KS0257	6.20 ea.
5/32" (1/8" inside)	KS0103	1.70 ea.	Copper Sheet		
3/16" (5/32" inside)	KS0104	1.70 ea.	4" x 10" .025"	KS0259	14.00 ea.
7/32" (3/16" inside)	KS0105	1.95 ea.	Copper Tube (12" lengths)		
1/4" (7/32" inside)	KS0106	1.95 ea.	1/16" (3 pcs/pkg) (1/32" inside)	KS1176	3.45/pkg
9/32" (1/4" inside)	KS0107	2.10 ea.	3/32" (3 pcs/pkg) (1/16" inside)	KS1186	4.05/pkg
Tin Sheet			1/8" (3/32" inside)	KS0120	1.95 ea.
4" x 10" .008"	KS0254	2.65 ea.	5/32" (1/8" inside)	KS0119	1.95 ea.

## Working with metal

**Cutting:** Cut tubing with a small cut-off wheel or a jeweller's saw to leave a round cross-section (cutting tubing with snips will crush the tubing). You can cut rod the same way (you can also use snips or shears on smaller diameter rod 1/8" or less). Sheet and strip stock can usually be cut with scissors or tin snips. Thicker sheets and strips can be cut with a jeweller's saw or scrollsaw with a fine jeweller's blade.

**Bending:** Most brass and copper will bend easily using fingers, pliers or a vise. Be careful when bending tubing as the sides can collapse. If you must bend tubing, try sliding a piece of rod inside where the bend will be to prevent wall collapse.

**Joining:** You can join two pieces of tubing by soldering a small rod into the joint. Telescoping the tubing to make a gradually diminishing branch diameter works very well with the brass tubing.

**Soldering:** One of the great things about brass is that it accepts solder readily, however it is still very important that the metal is clean. Lightly sand any areas to be soldered with 400 grit or finer paper, and be sure to use a suitable flux. Generally speaking, the flux in the core of most electrical solders is *not* sufficient. With flux applied to the brass, touch a hot, clean\* soldering iron tip to the brass and melt a small amount of solder between the solder tip and the brass. The liquified solder will accelerate heat transfer into the brass. Be sure that the brass has fully heated and the solder has flowed fully around the joint. Remove the heat and let the joint cool fully before handling. A good silver solder will give a stronger joint than lead-based solder (see our Stay-Brite solder on [page 44](#)).

\*You can clean a hot soldering iron tip by lightly and rapidly wiping it into a damp sponge.

# Reference Material - Study Casts

All of our study casts are excellent quality, highly detailed and accurate. We currently carry bird casts by Bob Guge, Jeff Whiting, and Cam Merkle, and fish by Josh Guge and Clark Schreiber. You'll be amazed how much easier carving, detailing and painting can be when you have a study cast handy. You can even practise your painting on them - acrylic paints strip off with denatured (ethyl) alcohol, so you can practice painting one cast several times. Size scale: LS = Lifesize; 1/2 LS, 1/3 LS, etc.

## Bluebird, Eastern

LS # GUGE07  
\$46.75



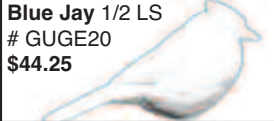
## Bluebird, Eastern

Fluffy LS  
# GUGE53  
\$49.50



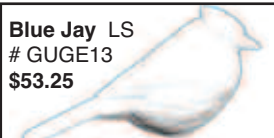
## Blue Jay 1/2 LS

# GUGE20  
\$44.25



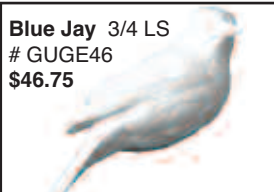
## Blue Jay LS

# GUGE13  
\$53.25



## Blue Jay 3/4 LS

# GUGE46  
\$46.75



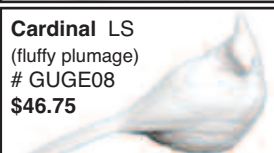
## Bunting, Indigo LS

# GUGE11  
\$40.25



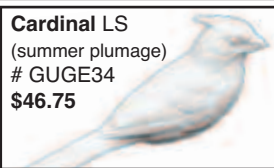
## Cardinal LS

(fluffy plumage)  
# GUGE08  
\$46.75



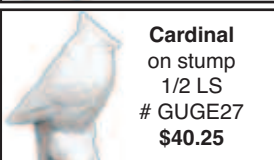
## Cardinal LS

(summer plumage)  
# GUGE34  
\$46.75



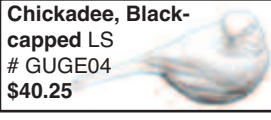
## Cardinal

on stump  
1/2 LS  
# GUGE27  
\$40.25



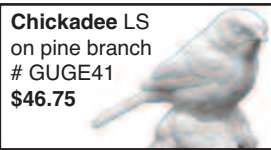
## Chickadee, Black-

capped LS  
# GUGE04  
\$40.25



## Chickadee LS

on pine branch  
# GUGE41  
\$46.75



## Dove, Mourning LS

# GUGE12  
\$53.25



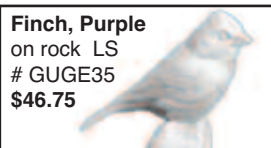
## Eagle, Bald

on rock 1/5 LS  
# GUGE22  
\$57.25



## Finch, Purple

on rock LS  
# GUGE35  
\$46.75



## Flicker, Northern

on log  
2/3 LS  
# GUGE39  
\$49.50



## Goldfinch LS

on a stump  
# GUGE56  
\$44.25



## Goshawk, Northern

on rock 1/3 LS  
# GUGE37  
\$49.50



## Grosbeak, Rose-

breasted on  
stump LS  
# GUGE42  
\$49.50



## Hawk, Red-tailed

1/4 LS  
# GUGE16  
\$49.50



## Heron, Black-crowned Night

1/3 LS  
# GUGE23 \$46.75



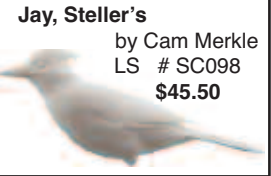
## Heron, Great Blue

1/5 LS  
# GUGE31  
\$47.95



## Jay, Steller's

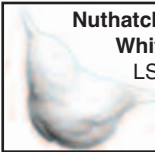
by Cam Merkle  
LS # SC098  
\$45.50



# Study Casts (cont.)

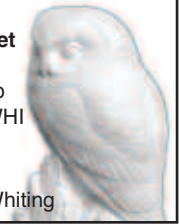


**Kestrel**  
on rocks  
1/2 LS  
# GUGE29  
**\$44.25**



**Nuthatch,  
White-breasted**  
LS # GUGE03  
**\$44.25**

**Owl,  
Saw-whet**  
LS  
on stump  
# SAWWHI  
**\$64.95**



by Jeff Whiting

**Killdeer**  
2/3 LS  
# GUGE58  
**\$46.75**



**Oriole, Northern**  
LS # GUGE14 **\$45.50**



**Owl, Screech**  
1/2 LS  
# GUGE18  
**\$46.75**



**Kingfisher**  
1/2 LS  
# GUGE15  
**\$44.25**



**Owl, Barn**  
1/3 LS  
# GUGE44  
**\$49.50**

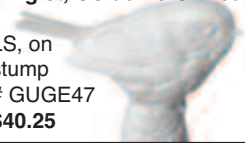


**Owl, Snowy**  
1/3 LS  
on rock  
# GUGE33  
**\$59.75**



**Kinglet, Golden-crowned**

LS, on  
stump  
# GUGE47  
**\$40.25**



**Owl, Elf**  
LS  
on rock  
# GUGE61  
**\$46.75**



**Plover, Semipalmated  
or Killdeer** LS  
# GUGE28  
**\$49.50**



**Loon, Common** 1/2 LS  
# LOONWHI  
**\$64.95**



by Jeff Whiting

**Merlin**  
on rock  
2/3 LS  
# GUGE36  
**\$49.50**



**Owl,  
Great Horned**  
by Cam Merkle  
1/3 LS  
# SC087  
**\$45.50**



**Puffin** 1/2 LS  
on rock  
# GUGE26  
**\$49.50**



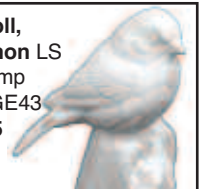
**Mockingbird**  
3/4 LS  
# GUGE50  
**\$49.50**



**Owl,  
Saw-whet**  
1/2 LS  
# GUGE17  
**\$40.25**



**Redpoll,  
Common** LS  
on stump  
# GUGE43  
**\$46.75**



**Nuthatch,  
Red-breasted**  
LS  
on stump  
# GUGE25  
**\$40.25**



**Owl,  
Saw-whet**  
3/4 LS  
on stump  
# GUGE54  
**\$49.50**

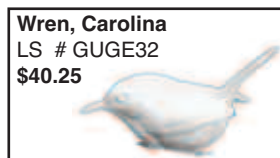
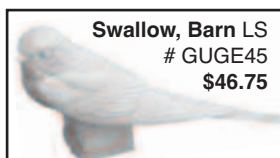
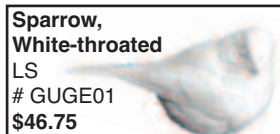
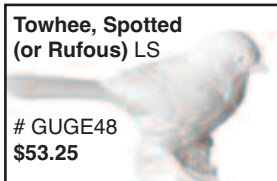
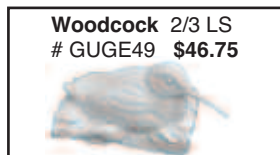
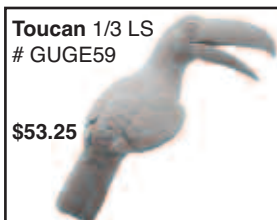
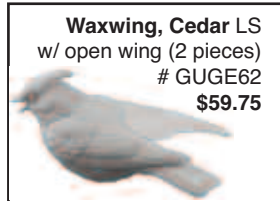
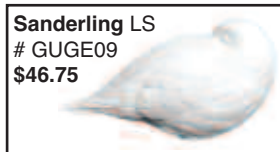
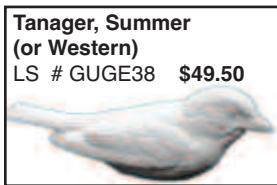
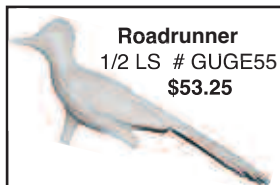


**Quail,  
Bobwhite**  
LS  
# GUGE60  
**\$46.75**





# Study Casts (cont.)



# Fish Study Casts

## Fish Study casts by Josh Guge

Full-body fish study casts, great for carving reference or painting practice. Because they are free-standing, they can be displayed on a table when painted. Fully scaled and beautifully detailed.



**Bluegill** 6.5" long  
# GUGEJ01  
\$51.95



**Smallmouth Bass**  
# GUGEJ02  
\$51.95

# Fish Study Casts (cont.)

## Fish Study Casts by Clark Schreibeis

Beautifully detailed casts capture the detail of fish like never before. World-champion Clark Schreibeis has produced these flat-backed casts for reference or painting practice (make a nice wall-mount when painted). Each piece is full-sized with superb fin, mouth and scale detail. More species will be added as Clark develops them.



Brown Trout 15.5" long  
# SCH100 \$62.95



Yellow Perch 11" long  
# SCH116 \$50.75



Bluegill 9" long  
# SCH108 \$47.95



Northern Pike 21" long  
# SCH104 \$68.25



Walleye 15" long  
# SCH124 \$61.25



Largemouth Bass 13"  
# SCH112 \$55.25



Black Crappie 11.5"  
# SCH120 \$51.95

## Cast Study Bills

Nothing can take the guess work out of bills and eyes like a study bill. All of our study bills are cast from the real thing (except the extinct birds), capturing all of the detail and subtle shapes of a live bird. They are all in-stock and available for immediate delivery. Photos of each bill are at [www.razertip.com](http://www.razertip.com).

**"Extinct" bills** (below) are created from scratch by Cam. They represent Cam's best interpretation of what the live bird's bill would have looked like, based on extensive research.

**"Full-head" bills** (page 51) are similar to the earlier Miller style bills; cast from fresh specimens with little to no shrinkage and superb detail. We'll be adding more species as specimens become available.

**"Taxidermy-style" bills** (page 52) include the full bill and skull, along with eye sockets. They have the "shrink-prone" areas built up to resemble a live bird. Our supplier also makes many other species - mostly exotic - which we can special order (call for details).

## Extinct Species Study Bills

Cam began researching Labrador ducks over 20 years ago and has recently committed to working on several pieces portraying other extinct species. His first completed piece featuring extinct birds was "Into the Light - Labrador ducks" (featured in previous catalogue). In preparation for this piece, Cam created a full-size "taxidermy-style" study bill for a male Labrador duck.



We're making these bills available as resin casts, similar in style to the bills listed on page 51.

Very detailed, this bill represents Cam's best interpretation of what a live, healthy bill would have looked like on a bird that's been extinct for over 135 years. It can be used for reference in carving or painting your own Labrador ducks, or it can also be used by a taxidermist who may want to try re-creating a mount of a Labrador duck.

# SBLABDUCK \$17.50

# Cast Study Bills (cont.)

## Full-Head Study Bills

Species	Item #	Price	Species	Item #	Price
Bittern, American	SBABITT	\$17.50	Grouse, Spruce	SBSPRUCE	\$17.50
Catbird, Gray	SBCATB	\$17.50	Gull, Franklin's	SBFRGUL	\$17.50
Coot, American	SBCOOT	\$17.50	Kingbird, Eastern	SBEKB	\$17.50
Dove, Mourning	SBMDOVE	\$17.50	Sandpiper, Solitary	SBSOLSAND	\$17.50
Finch, House	SBHFINCH	\$17.50	Sapsucker, Yellow-bellied	SBYBSS	\$17.50
Grebe, Western	SBWGREBE	\$17.50	Vireo, Warbling	SBWVIREO	\$17.50
Grouse, Ruffed	SBRUFF	\$17.50	Warbler, Tennessee	SBTENWARB	\$17.50
Grouse, Sharp-tailed	SBSHARPTAIL	\$17.50			



American Bittern



Mourning Dove



Sharp-tailed Grouse



Solitary Sandpiper



Spruce Grouse



Yellow-bellied Sapsucker



Gray Catbird



House Finch



Western Grebe



Franklin's Gull



Warbling Vireo



American Coot



Ruffed Grouse



Eastern Kingbird



Tennessee Warbler

## Taxidermy-style Study Bills

Sample photos below - See next page for full list



Atlantic Puffin



Tundra Swan



Ring-necked Pheasant



Northern Flicker



Great Blue Heron open bill



Pacific Loon

[www.razertip.com](http://www.razertip.com) has photos of each study bill we carry.

# Cast Study Bills *(Taxidermy-style)*

SB152	BRANT (PACIFIC)	21.50	SB294A	HERON, GREAT BLUE OPEN BILL	32.25
SB070	BUFFLEHEAD M	17.50	SB279	JAY, GRAY	17.50
SB072	BUFFLEHEAD F	17.50	SB318	KESTREL, AMERICAN	32.25
SB030	CANVASBACK M	17.50	SB293	LOON, COMMON	29.50
SB032	CANVASBACK F	17.50	SB800	LOON, PACIFIC	29.50
SB250	COOT, AMERICAN	17.50	SB014	MALLARD M	17.50
SB162	CRANE, SANDHILL	29.50	SB014A	MALLARD M OPEN BILL	21.50
SB280	CROW, COMMON	17.50	SB015	MALLARD F	17.50
SB264	DOVE, MOURNING	17.50	SB015A	MALLARD F OPEN BILL	17.50
SB262	DOVE, WHITE-WINGED	17.50	SB020	MERGANSEER, AMERICAN M	17.50
SB076	DUCK, HARLEQUIN M	17.50	SB042	MERGANSEER, AMERICAN F	17.50
SB074	DUCK, HARLEQUIN F	17.50	SB092	MERGANSEER, HOODED M	17.50
SB144	DUCK, MANDARIN M	17.50	SB090A	MERGANSEER, HOODED M OPEN	21.50
SB146	DUCK, MANDARIN F	17.50	SB090	MERGANSEER, HOODED F	17.50
SB096	DUCK, OLDSQUAW (LONG-TAIL) M	17.50	SB120	MERGANSEER, RED-BREADED M	17.50
SB094	DUCK, OLDSQUAW (LONG-TAIL) F	17.50	SB118	MERGANSEER, RED-BREADED F	17.50
SB018	DUCK, PINTAIL M	17.50	SB317	MERLIN M	21.50
SB019	DUCK, PINTAIL F	17.50	SB317A	MERLIN M OPEN BILL	32.25
SB062	DUCK, REDHEAD M	17.50	SB740	NIGHTHAWK, COMMON	19.95
SB064	DUCK, REDHEAD F	17.50	SB328	OWL, BARN	32.25
SB058	DUCK, RING-NECKED M	17.50	SB323	OWL, BARRED	32.25
SB056	DUCK, RING-NECKED F	17.50	SB319	OWL, BURROWING	32.25
SB124	DUCK RUDDY M	17.50	SB322	OWL, FLAMMULATED	32.25
SB006	DUCK, WOOD M	17.50	SB330	OWL, GREAT-HORNED	38.95
SB006A	DUCK, WOOD M OPEN BILL	21.50	SB321	OWL, SAW-WHET	32.25
SB008	DUCK, WOOD F	17.50	SB326	OWL, SCREECH	32.25
SB332	EAGLE, BALD CLOSED BILL	54.00	SB324	OWL, SNOWY	32.25
SB332A	EAGLE, BALD OPEN BILL	55.25	SB220	PARTRIDGE, CHUKAR	17.50
SB333	EAGLE, GOLDEN	54.00	SB224	PARTRIDGE, GRAY (HUN)	17.50
SB333A	EAGLE, GOLDEN OPEN BILL	55.25	SB200	PHEASANT, RING-NECKED M	17.50
SB082	EIDER, COMMON M	17.50	SB200H	PHEASANT, RING-NECKED F	17.50
SB084	EIDER, COMMON F	17.50	SB246	PRAIRIE CHICKEN	17.50
SB112	EIDER, KING M	17.50	SB270	PTARMIGAN, WILLOW	17.50
SB110	EIDER, KING F	17.50	SB912	PUFFIN, ATLANTIC	25.50
SB098	EIDER, PACIFIC M	17.50	SB910	PUFFIN, TUFTED	25.50
SB102	EIDER, PACIFIC F	17.50	SB235	QUAIL, BLUE SCALED	17.50
SB116	EIDER, SPECTACLED M	17.50	SB237	QUAIL, BOBWHITE	17.50
SB114	EIDER, SPECTACLED F	17.50	SB234	QUAIL, GAMBEL'S	17.50
SB108	EIDER, STELLER'S M	17.50	SB232	QUAIL, MOUNTAIN	17.50
SB106	EIDER, STELLER'S F	17.50	SB290	RAIL, SORA	17.50
SB309	FALCON, PEREGRINE	37.75	SB288	RAVEN (STUDY BILL IS BLACK)	21.50
SB702	FLICKER, NORTHERN	19.95	SB288A	RAVEN OPEN BILL (BLACK)	25.50
SB066	GADWALL M	17.50	SB500	ROLLER, LILAC-BREADED	17.50
SB068	GADWALL F	17.50	SB034	SCAUP, GREATER M	17.50
SB252	GALLINULE, COMMON	17.50	SB036	SCAUP, GREATER F	17.50
SB254	GALLINULE, PURPLE	17.50	SB038	SCAUP, LESSER M	17.50
SB078	GOLDENEYE, BARROW'S M	17.50	SB040	SCAUP, LESSER F	17.50
SB080	GOLDENEYE, BARROW'S F	17.50	SB052	SCOTER, SURF M	17.50
SB048	GOLDENEYE, COMMON M	17.50	SB128	SCOTER, WHITE-WINGED M	17.50
SB046	GOLDENEYE, COMMON F	17.50	SB053	SHOVELER, NORTHERN M	17.50
SB099	GOOSE, BLUE	21.50	SB054	SHOVELER, NORTHERN F	17.50
SB130	GOOSE, CACKLING	21.50	SB256	SNIPE, WILSON'S (COMMON)	17.50
SB136	GOOSE, CANADA M	21.50	SB710	STARLING	17.50
SB022	GOOSE, ROSS'S	17.50	SB914	STILT, BLACK-NECKED	21.50
SB100	GOOSE, SNOW	17.50	SB171	SWAN, TRUMPETER	21.50
SB104	GOOSE, SPECKLE-BELLY	21.50	SB170A	SWAN, TUNDRA	33.50
SB104	GOOSE, WHITE-FRONTED	21.50	SB170B	SWAN, TUNDRA OPEN BILL	33.50
SB242	GROUSE, BLUE	17.50	SB088	TEAL, BLUE-WINGED M	17.50
SB228	GROUSE, RUFFED	17.50	SB086	TEAL, BLUE-WINGED F	17.50
SB229	GROUSE, SAGE	17.50	SB004	TEAL, CINNAMON M	17.50
SB240	GROUSE, SHARP-TAILED	17.50	SB002	TEAL, CINNAMON F	17.50
SB226	GROUSE, SPRUCE	17.50	SB026	TEAL, GREEN-WINGED M	17.50
SB314	HAWK, COOPER'S M	32.25	SB028	TEAL, GREEN-WINGED F	17.50
SB325	HAWK, HARRIS'S	32.25	SB720	WAXWING, CEDAR	17.50
SB308	HAWK, RED-SHOULDERED	32.25	SB010	WIGEON, AMERICAN M	17.50
SB310	HAWK, RED-TAILED	37.75	SB012	WIGEON, AMERICAN F	17.50
SB312	HAWK, SHARP-SHINNED	32.25	SB258	WOODCOCK, AMERICAN M	17.50
SB291	HERON, BLACK-CROWN NIGHT	32.25	SB700	WOODPECKER, PILEATED	25.50
SB294	HERON, GREAT BLUE	32.25			

# Cast Pewter Bird Feet

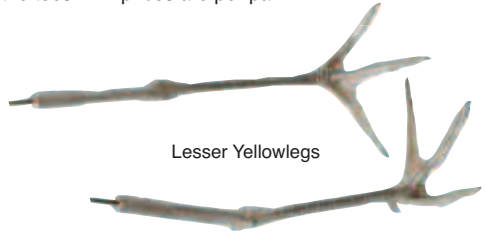
We stock two styles of bird feet. All feet are excellent quality with minute detail faithfully reproduced. The full foot and leg (one piece) have been cast from the actual species so they are great for reference if you want to make your own feet, or you can use them directly in your carvings. The toes can be bent (carefully). "Bird toes" look great when sandwiched between the bird and base (looks like the bird is sitting on its toes). Larger feet are reinforced with a steel wire and some (like the Red-tailed Hawk) are made from 2 pieces to facilitate easier bending of the toes. All prices are per pair.



Evening Grosbeak

## SONGBIRDS (1-piece unless noted)

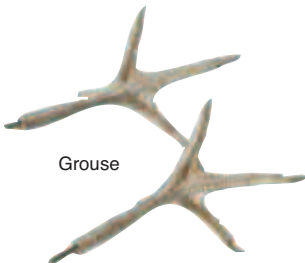
Northern Oriole # FTORIO	10.40
Belted Kingfisher # FTKFISH	11.90
Blue Jay # FTBJAY	13.35
Bluebird (Eastern) # FTBBIRD	8.90
Cardinal # FTCARD	10.40
Carolina Wren # FTCWREN	8.90
Chickadee # FTCHICK	8.90
Crow # FTCROW	27.00
Dove # FTDOVE	13.35
Dove (two piece) # FEETA09	13.35
Evening Grosbeak # FTEVENI	10.40
Goldfinch # FTGOLD	8.90
Herring Gull # FTHERGL	25.25
House Wren # FTHWREN	8.90
Meadowlark # FTMLARK	14.85
Pigeon # FTPIGON	13.35
Ring-Billed Gull # FTRBGUL	19.30
Road Runner # FTRDRUN	19.30
Robin # FTROBIN	13.35
Sora Rail # FTSORA	14.85
Titmouse # FTTMOUS	8.90
White-throated Sparrow #FTWTSPA	10.40
White-breasted Nuthatch #FTNUTHA	8.90
White-winged Dove # FTWDOVE	13.35
Wood Thrush # FTWTHR	10.40



Lesser Yellowlegs

## SHOREBIRDS (One piece)

Black-bellied Plover # FTBPLOV	13.35
Green Heron (crouched) # FTGHERON	27.00
Green Heron (standing) # FTGHERON2	27.00
Killdeer # FTKILDR	13.35
Least Sandpiper # FTLSTPP	11.90
Lesser Yellowlegs # FTYLEGS	17.85
Semipalmated Plover # FTSEMPLOV	11.90
Spotted Sandpiper # FTSPOT	10.40
Willet # FTWILLE	19.30



Grouse

## UPLAND BIRDS (1-piece unless noted)

Bobwhite Quail # FTBOBWH	13.35
Chukar Partridge # FTCHUK	16.35
Gambel's Quail # FTGAMBL	13.35
Quail (two piece) # FEETA08	13.35
Grouse # FTGROUS	16.35
Grouse (two piece) # FEETA10	16.35
Pheasant # FTPHEAS	29.70
Woodcock # FTWCOCK	13.35



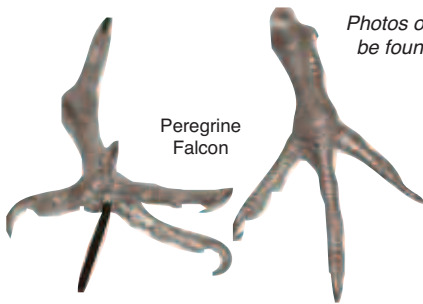
Canvasback

## WATERFOWL (One piece)

Bufflehead Standing # FTBUFFL	20.80
Canvasback Standing # FTCANVS	28.20
Green-winged Teal Standing # FTGWTL	16.35
Green-winged Swimming # FTGWTFW	16.35
Mallard Standing # FTMALRD	25.25
Pintail Standing # FTPINTL	22.95
Wigeon Standing # FTWGEO	19.30
Wood Duck Standing # FTWDUCK	19.30
Wood Duck Swimming # FTWDUCK2	19.30

Photos of each foot we carry can be found at [www.razertip.com](http://www.razertip.com).

# Cast Pewter Bird Feet (cont.)



Photos of each foot we carry can be found at [www.razertip.com](http://www.razertip.com).

Peregrine Falcon

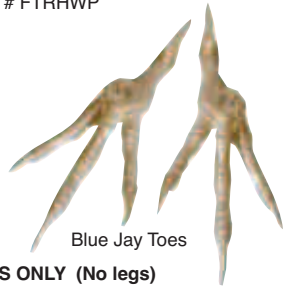
Pileated Woodpecker

## BIRDS OF PREY (1-piece unless noted)

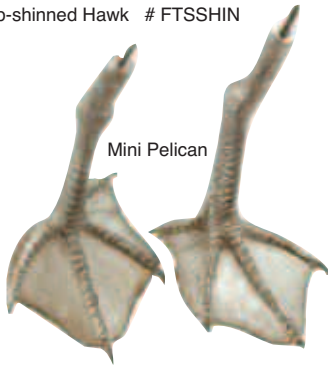
Broad-winged Hawk # FTBWHWK	20.80
Cooper's Hawk # FTCOOPR	25.25
Kestrel # FTKESTR	13.35
Peregrine Falcon # FTPEREG	29.70
Red-tailed Hawk # FTRTHWK (2-pc.)	29.70
Screech Owl # FTOWL	11.90
Sharp-shinned Hawk # FTSSHIN	17.85

## WOODPECKERS (One piece)

Downy # FTDOWNY	8.90
Flicker # FTLFLICK	11.90
Pileated # FTPILEA	19.30
Red-headed # FTRHWP	11.90



Blue Jay Toes



Mini Pelican

## BIRD TOES ONLY (No legs)

Size 1 24mm long # FEETA01	7.50
Size 2 30mm long # FEETA02	7.75
Size 3 44mm long # FEETA03	8.10
Size 4 34mm long # FEETA04	7.75
Size 5 39mm long # FEETA05	8.10
Size 6 51mm long # FEETA06	8.90
Bluebird # FTOEBB	8.90
Blue Jay # FTOEBJAY	13.35
Cardinal # FTOECARD	8.90
Chickadee # FTOECHIC	8.90
Downy Woodpecker # FTOEDOWN	8.90
House Wren # FTOEHWREN	8.90
Kestrel # FTOEKEST	13.35
Red-bellied Woodpecker # FTOERBWPECK	13.35
Red-breasted Nuthatch # FTOERBNUT	8.90
Robin # FTOEROBIN	13.35
Saw-whet Owl # FTOESAWOWL	11.90

## MINI FEET (1- piece)

(measurement shown is length of centre toe)

Ultra Mini Duck size 1 (11mm) # FTUMD1	8.90
Ultra Mini Duck size 2 (16mm) # FTUMD2	8.90
Mini Duck (23mm) # FTMD1X1	10.40
Mini Pelican (30mm) # FTPELIC	13.35
Mini Goose (33mm) # FTGOOSE	13.35
Mini Road Runner (30mm) # FTRRUN	13.35



Large Antlers

Mallard Curls

Calif. Quail

## Pewter Antlers, Curls and Top-Knots

Calif. Quail top-knot (LS) # FTCQTN	8.90
Mountain Quail top-knot (LS) # FTMQTN	8.90
Mallard tail Curls (LS) # FTMALCURL	8.90
Mini Deer Antlers (small) approx 1.3" long # FTANTLERS	14.85
Mini Deer Antlers (large) approx 2" long # FTANTLERL	20.80

## Tips on using pewter feet

- If you can't find the exact species you need, you may substitute another similar species (i.e. use White-throated sparrow feet on a House sparrow carving). See our "Eye, Foot, and Bill Chart" on [pages 63-66](#).
- Bird toes bend easily.
- Try putting a pin into the bird's body and setting the bird directly on its toes, so that no leg is visible. Works great, especially on "puffier" birds.
- All pewter feet and legs: it is best to bend them one time only, otherwise they may break when you try to bend them back. Whenever possible, try not to bend the leg portion and keep the bending of toes to a minimum. If a sharp bend is required, try soaking foot in hot water prior to bending. You may also try cutting a slot in the underside of the toe you wish to bend.

# Wood Basswood - Jelutong - Tupelo

**HOW TO ORDER WOOD:** Wood is sold by the measured board foot (MBF). One MBF is equivalent to a piece of wood 12"x12"x1" thick, or 144 cubic inches. To establish the MBF of a piece of wood, you multiply the length x width x thickness and divide by 144. For example, a piece of wood 4"x6"x14" = 336 cu. inches divided by 144 equals 2.333MBF. At \$6.90/MBF, basswood would cost \$16.10; tupelo would cost \$41.99.

**"Cash and carry" / freight collect pricing:** Cost per board foot when picking up wood at our store or if wood is being shipped freight collect (for example shipping costs billed to your UPS account).

**"Shipped" pricing:** Because wood is heavy and fairly expensive to ship, our "shipped" wood pricing includes a \$3.00 per board foot shipping surcharge to offset the additional costs we incur to ship wood. Our regular shipping charges will still apply (as shown on our order form).

**Buying wood online:** Wood is available on our online store at [www.razertip.com](http://www.razertip.com). Follow the "Carving Woods" link on the left-hand side. You can then select from any of the dimensions shown (i.e. Jelutong 4"x12"). Order the length you want in inches. Everything shown on our online store is available for immediate shipping.

If you need wood in dimensions other than those listed on the online store (or if you don't use the internet), please don't hesitate to call us on our toll-free line. We'll do our best to get exactly the wood you want. For fax and mail orders, we may need to call you and let you know your options if your specific requirements cannot be met (be sure to include contact information on your order form!).

**Basswood (Canada/USA).** One of the most popular woods for bird, fish and animal carvers because of cost and carvability. It can be easily worked with power tools, too. All of our basswood is top quality Northern wood. Order the block size you desire and we will ship one as close to it as possible. Available in thicknesses from 2-6"; random widths up to 8" or 9". At time of printing we have an excellent supply of all sizes on hand.

### Basswood - Cash and Carry

2" Thickness # BASS2 **\$6.60/Mbf**  
 3" Thickness # BASS3 **\$6.90/Mbf**  
 4" Thickness # BASS4 **\$6.90/Mbf**  
 5"+ Thickness # BASS5 **\$10.90/Mbf\***

*\*Note: ALL BASSWOOD 4.5" AND THICKER (regardless of width), OR WIDER THAN 8" (regardless of thickness) WILL BE PRICED AS 5" WOOD.*

### Basswood - Shipped

2" Thickness # BASSF2 **\$9.60/Mbf**  
 3" Thickness # BASSF3 **\$9.90/Mbf**  
 4" Thickness # BASSF4 **\$9.90/Mbf**  
 5"+ Thickness # BASSF5 **\$13.90/Mbf\***

*\*Note: ALL BASSWOOD 4.5" AND THICKER (regardless of width), OR WIDER THAN 8" (regardless of thickness) WILL BE PRICED AS 5" WOOD.*

**As of this printing we have a good selection of Canadian Basswood in stock in thicknesses from 2" to nearly 7", with widths up to 14". This is some of the nicest basswood we've ever had. If you have a larger project in mind be sure to contact us - chances are we'll have some basswood to do the job!**

**Jelutong (Malaysia).** A favorite of wood pattern makers, Jelutong is very even-tempered and carves beautifully with hand or power tools. It sands very easily, too. It is slightly more open-grained than Bass or Tupelo, making it ideal for natural finish carvings as well as for birds, animals, and habitat. A member of the rubber tree family, Jelutong will occasionally have small latex "canals" inside the wood which can result in a small void (generally around 1/16"x1/4") that can easily be filled with a small wedge or chip of jelutong. All of our Jelutong is premium grade, 2x12" and 4x12" in any length you want up to 8 feet.

We can rip narrower pieces on request (ie 4", 6", or 8" wide).

### Jelutong - Cash and Carry

2" Thickness # JELU2 **\$11.50/Mbf**  
 4" Thickness # JELU4 **\$12.65/Mbf**

### Jelutong - Shipped

2" Thickness # JELUF2 **\$14.50/Mbf**  
 4" Thickness # JELUF4 **\$15.65/Mbf**

**Tupelo (Southern USA).** Tupelo is the wood of choice for many competitive carvers, including many world champions. While Tupelo can be worked with hand tools, it is more often worked with power tools. It is light weight, sands very smooth, and takes very fine detail well. Our Tupelo is cut and dried to our specifications and is available in a variety of sizes in thicknesses from 2" to 8" or more. Tupelo is preferred by most of the world champion wildfowl carvers in the U.S. and Canada.

### Tupelo - Cash and Carry

4" Thickness # TUPELO4 **\$18.00/Mbf**  
 5"+ Thickness # TUPELO5 **\$20.00/Mbf**

### Tupelo - Shipped

4" Thickness # TUPELOF4 **\$21.00/Mbf**  
 5"+ Thickness # TUPELOF5 **\$23.00/Mbf**

**Butternut** is becoming more scarce every year, and we regret that we are unable to maintain a reliable supply. We are constantly on the lookout for a source for Butternut and we will list any available stock on our website if and when it becomes available.

# Patterns and Blanks

**New Patterns and Blanks by Cam Merkle.** Cam has recently released two new carving and pattern books covering a wide variety of waterfowl, shorebirds and songbirds. Basswood blanks from any of the patterns are available and any of the patterns can be purchased separately. We recommend buying the books as they also contain some superb reference photos for each pattern. **\$24.95 each**



## Volume 1 - Waterfowl & Shorebirds.

19 different patterns for 16 species of waterfowl and shorebirds. Included for each species are great reference photos that you will find invaluable when carving and painting. Also includes brief carving tips to help you avoid common mistakes, as well as a bit of interesting trivia for each species.

36 pages, 54 colour photos. 11x17" Coil-bound.



## Volume 2 - Songbirds.

24 different patterns for 20 songbirds. Included for each species are great reference photos that you will find invaluable when carving and painting your project. Also includes brief carving tips to help you avoid common mistakes, as well as a bit of interesting trivia for each species.

44 pages, 163 colour photos. 11x17" Coil-bound.

Item #	Description	Size	Price
<b>Blanks from Volume 1 Waterfowl &amp; Shorebirds</b>			
BL01-28	Blue-winged Teal Drake	LS	22.00
BL01-30	Green-winged Teal Drake	LS	22.00
BL01-4	Bufflehead Drake	LS	22.00
BL01-6	Canvasback Drake	3/4LS	21.00
BL01-18	Mallard Drake	1.2LS	15.50
BL01-20	Pintail Drake	1/2LS	15.50
BL01-22	Redhead Drake	3/4LS	20.00
BL01-24	Ruddy Duck Drake	LS	22.00
BL01-34	Wood Duck Drake	1/2LS	13.25
BL01-2	American Avocet	2/3LS	15.50
BL01-8	Canada Goose Feeding	1/2LS	17.75
BL01-10	Canada Goose Resting	1/2LS	17.75
BL01-16A	Common Loon High Head	40%LS	20.00
BL01-16B	Common Loon Swimming	1/3LS	18.75
BL01-12	Great Blue Heron	1/5LS	13.25
BL01-14M	Labrador Duck Drake	1/2LS	15.50
BL01-14F	Labrador Duck Hen	1/2LS	15.50
BL01-26	Least Sandpiper	LS	11.00
BL01-32	Willet	3/4LS	17.75

**Each blank includes glass eyes and a pattern.**

**Chestnut-backed Chickadee** (Photo courtesy)



DESCRIPTION OF CARVING BLANKS  
 The following information is provided for your reference only. It is not intended to be used as a guide for carving. The patterns are designed to be carved from a single piece of wood. The patterns are designed to be carved from a single piece of wood. The patterns are designed to be carved from a single piece of wood.

Item #	Description	Size	Price
<b>Blanks from Volume 2 Songbirds</b>			
BL02-2A	Red-winged Blackbird Perched	LS	13.25
BL02-2B	Red-winged Blackbird Open-wing	LS	17.75
BL02-4	Yellow-headed Blackbird	LS	13.25
BL02-6	Mountain Bluebird Male	LS	11.00
BL02-8	Gray Catbird	LS	13.25
BL02-10A	Black-capped Chickadee Regular	LS	10.00
BL02-10B	Black-capped Chickadee Puffy	LS	10.00
BL02-12A	Chestnut-backed Chickadee Upright	LS	10.00
BL02-12B	Chestnut-backed Chickadee Down	LS	10.00
BL02-14	Brown-headed Cowbird	LS	13.25
BL02-16Y	Northern Flicker (Yellow-shafted)	2/3LS	12.25
BL02-16R	Northern Flicker (Red-shafted)	2/3LS	12.25
BL02-18	Rose Grosbeak	LS	12.25
BL02-20	Blue-breasted Grosbeak	LS	13.25
BL02-22	Costa's Hummingbird	LS	7.75
BL02-24A	Ruby-throated Hummingbird Perched	LS	7.75
BL02-24B	Ruby-throated Hummingbird Flying w/ Columbine Flower	LS	16.50
BL02-26	Gray Jay	LS	18.75
BL02-28	Steller's Jay	LS	16.50
BL02-30	Dark-eyed Junco	LS	11.00
BL02-32	American Robin	LS	13.25
BL02-34	Yellow-bellied Sapsucker	LS	14.50
BL02-36	Clay-coloured Sparrow	LS	10.00
BL02-38	Bohemian Waxwing	LS	11.00
BL02-40	Cedar Waxwing	LS	11.00

**Each blank includes glass eyes and a pattern.**



# Patterns and Blanks

**Patterns and Blanks by Cam Merkle.** Each pattern is carefully researched and drawn so you will find them useful whether you want to carve them directly, or use for reference to draw your own pattern. Bird blank price includes wood cutout, eyes and pattern; whale and dolphin blanks include wood cutout and a pattern. Our blanks are cut to order, so if you are coming out to buy blanks please phone at least one day ahead and let us know what you want so the blank(s) will be ready when you get here. We can also cut out blanks from patterns you supply. Prices are for Basswood blanks. Other woods may be available; call for further information.

Item #	Description	Size	Price
<b>Waterfowl</b>			
BL001	Blue-winged Teal M	3/4 LS	13.25
BL003	Bufflehead M	1/3 LS	15.50
BL007	Canvasback M	LS	29.75
BL009	Canvasback M	1/2 LS	13.25
BL010	Canvasback F	LS	29.75
BL021	Mallard M	3/4 LS	22.00
BL022	Mallard M	LS	35.25
BL025	Pintail M	3/4 LS	20.00
BL026	Pintail M	LS	26.50
BL027	Pintail F	1/2 LS	15.50
BL028	Pintail F	3/4 LS	20.00
BL029	Pintail F	LS	26.50
BL030	Redhead M	LS	31.00
BL032	Wigeon M	3/4 LS	16.50
BL034	Wood Duck M	LS	24.25

Item #	Description	Size	Price
<b>Loons</b>			
BL067	Ultra Mini	4.75" L	9.50
BL012	Mini	6.5" L	12.25
BL014	Medium	9.25" L	18.75
BL017	Large 1/2 LS	12" L	23.25
BL015	High head, puffy neck	9.75" L	20.00
BL018	Full size	21" L	67.25

<b>Songbirds</b>			
BL084	Bee Eater, Little	LS	11.00
BL062	Blackbird, Yellow-headed	7/8 LS	11.00
BL047	Blue Jay	1/2 LS	9.00
BL048	Blue Jay	2/3 LS	10.50
BL049	Blue Jay	LS	13.25
BL085	Kingfisher, Belted	1/2 LS	10.00
BL052	Magpie, crouched squawking	1/2 LS	9.00
BL053	Magpie, crouched squawking	3/4 LS	14.00
BL054	Magpie, crouched squawking	LS	23.25
BL057	Meadowlark, Western	LS	11.00

<b>Birds of Prey</b>			
BL038	Burrowing Owl	LS	24.25
BL079	Bald Eagle on Rock	1/3 LS	13.25
BL039	Kestrel (perched)	1/2 LS	11.00
BL041	Kestrel (perched)	LS	18.75
BL068	Great Horned Owl	1/2 LS	23.75
BL087	Great Horned Owl	1/3 LS	16.50
BL078	Saw-whet Owl	1/2 LS	11.00
BL083	Saw-whet Owl	LS	22.75
BL080	Swainson's Hawk (Bust)	LS	18.00

<b>Shorebirds</b>			
BL036	American Avocet	LS	22.00
See <a href="#">Page 56</a> for more shorebird blanks			

<b>Whales and Dolphins</b>			
BL063	Killer Whale Calf	6" L	9.00
BL066	Killer Whale Female	9.25" L	15.50
BL064	Killer Whale Female	11.5" L	25.50
BL065	Bottlenose Dolphin	8" L	10.00

Studynotes for many of the above projects are listed on [page 82](#).

**To order a pattern only**

Substitute the letters "PA" for "BL" (example "#PA078" for a Saw-whet owl pattern only; #BL078 for a blank). Cost is \$2.00 per pattern. Patterns are included with each blank.

**About copyright:** All of our patterns are copyrighted. You may photocopy them for your personal use only.

Costa's Hummingbird *Calypte costae*



Wings in extreme extension  
 This is a common hummingbird species found in the southern United States and northern Mexico. It is a very active bird, feeding on nectar from a wide variety of flowers. The male has a bright red throat and breast, and a black cap. The female has a green back and a white breast. It is a very common species and is often seen in gardens and parks.

Ruby-throated Hummingbird *Trochilus erythrops*



Wings in extreme extension  
 This is a common hummingbird species found in the eastern United States and southeastern Canada. It is a very active bird, feeding on nectar from a wide variety of flowers. The male has a bright red throat and breast, and a black cap. The female has a green back and a white breast. It is a very common species and is often seen in gardens and parks.

# Glass Eyes

Clear (Flint) Eyes w/Round Black Pupils					
Size	#	Price	Size	#	Price
3mm	EY3	<b>1.25</b>	9mm	EY9	<b>2.50</b>
4mm	EY4	<b>1.25</b>	10mm	EY10	<b>2.65</b>
5mm	EY5	<b>1.25</b>	11mm	EY11	<b>2.95</b>
6mm	EY6	<b>1.40</b>	12mm	EY12	<b>3.85</b>
7mm	EY7	<b>1.55</b>	13mm	EY13	<b>4.00</b>
8mm	EY8	<b>1.75</b>	14mm	EY14	<b>6.30</b>

Coloured Eyes w/Round Black Pupils					
Size	#	Price	Size	#	Price
3mm	EY3(*)	<b>1.40</b>	9mm	EY9(*)	<b>2.80</b>
4mm	EY4(*)	<b>1.40</b>	10mm	EY10(*)	<b>3.10</b>
5mm	EY5(*)	<b>1.40</b>	11mm	EY11(*)	<b>3.65</b>
6mm	EY6(*)	<b>1.55</b>	12mm	EY12(*)	<b>4.60</b>
7mm	EY7(*)	<b>1.75</b>	13mm	EY13(*)	<b>4.85</b>
8mm	EY8(*)	<b>2.05</b>	14mm	EY14(*)	<b>7.00</b>

\*Colour Codes: **YL** = Yellow **RD** = Red **HZ** = Hazel  
**BR** = Brown **DB** = Dark Brown

Solid Black Glass Eyes					
Size	#	Price	Size	#	Price
3mm	EY3BL	<b>1.25</b>	7mm	EY7BL	<b>1.55</b>
4mm	EY4BL	<b>1.25</b>	8mm	EY8BL	<b>1.75</b>
5mm	EY5BL	<b>1.25</b>	9mm	EY9BL	<b>2.50</b>
6mm	EY6BL	<b>1.40</b>	10mm	EY10BL	<b>2.65</b>

Loon Eyes - Red w/ Small Black Pupil					
Size	#	Price	Size	#	Price
6mm	EY6LN	<b>3.85</b>	11mm	EY11LN	<b>5.45</b>
7mm	EY7LN	<b>3.85</b>	12mm	EY12LN	<b>5.45</b>
8mm	EY8LN	<b>3.85</b>	13mm	EY13LN	<b>6.10</b>
9mm	EY9LN	<b>3.85</b>	14mm	EY14LN	<b>6.10</b>
10mm	EY10LN	<b>3.85</b>			

All eye prices are per pair.

Loon eyes are also great for some Grebes....

Competition Grade Eyes w/Round Black Pupils									
Size	Clear #	Clear Price	Coloured #	Coloured Price	Size	Clear #	Clear Price	Coloured #	Coloured Price
5mm	CEY5	<b>3.20</b>	CEY5(*)	<b>3.85</b>	14mm	CEY14	<b>7.00</b>	CEY14(*)	<b>8.00</b>
6mm	CEY6	<b>3.20</b>	CEY6(*)	<b>3.85</b>	16mm	CEY16	<b>8.00</b>	CEY16(*)	<b>9.65</b>
7mm	CEY7	<b>3.20</b>	CEY7(*)	<b>3.85</b>	18mm	CEY18	<b>8.90</b>	CEY18(*)	<b>11.00</b>
8mm	CEY8	<b>3.20</b>	CEY8(*)	<b>3.85</b>	20mm	CEY20	<b>10.35</b>	CEY20(*)	<b>12.45</b>
9mm	CEY9	<b>3.20</b>	CEY9(*)	<b>3.85</b>	22mm	CEY22	<b>11.55</b>	CEY22(*)	<b>13.65</b>
10mm	CEY10	<b>4.20</b>	CEY10(*)	<b>5.05</b>	(*) Colour Codes - See "Coloured Eyes" above				
11mm	CEY11	<b>4.60</b>	CEY11(*)	<b>5.45</b>					
12mm	CEY12	<b>4.75</b>	CEY12(*)	<b>5.90</b>					

Oval Pupil Eyes		
Size	Item #	Price
3mm	EY3OVAL	<b>1.80</b>
4mm	EY4OVAL	<b>1.80</b>

Clear eyes with black oval-shaped pupils are great for reptiles and small animals! Larger sizes can be ordered.

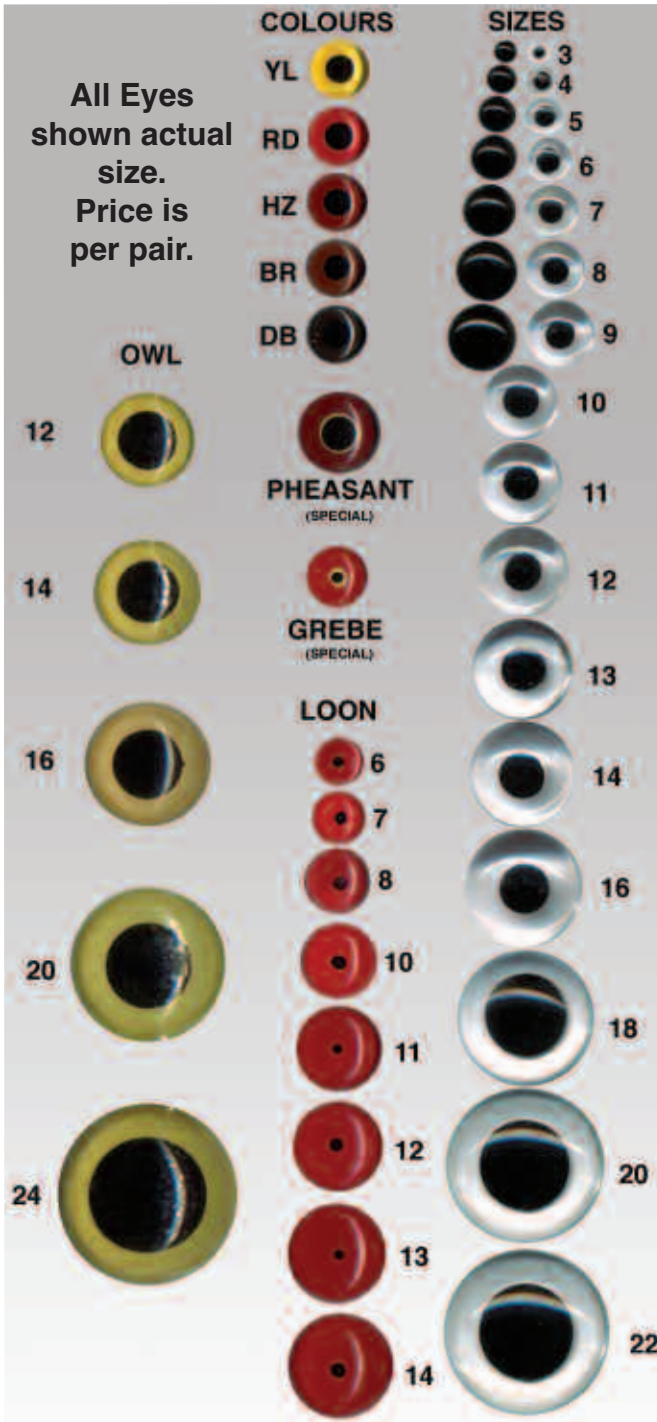
All eye prices are per pair.

Specialty Eyes							
Size	Description	Item #	Price	Size	Description	Item #	Price
8mm	Grebe	EY8GRB	<b>4.20</b>	16mm	Misc. Owl, Yellow	EY16OWL	<b>8.40</b>
10mm	Misc. Owl, Yellow	EY10OWL	<b>6.70</b>	16mm	Misc. Owl, Straw	EY16STOWL	<b>8.40</b>
11mm	Ring-necked Pheasant	EY11PH	<b>7.70</b>	16mm	Bald Eagle	EY16BE	<b>9.50</b>
12mm	Saw Whet / Boreal/ Burrowing Owl, Yellow	EY12OWL	<b>7.55</b>	18mm	Bald Eagle	EY18BE	<b>9.80</b>
12mm	As above, Straw colour	EY12STOWL	<b>7.55</b>	18mm	Misc. Owl, Yellow	EY18OWL	<b>8.75</b>
14mm	Screech / Long or Short-Eared Owl, Yellow	EY14OWL	<b>8.40</b>	20mm	Great Horned Owl, Yellow	EY20OWL	<b>9.95</b>
14mm	As above, Straw colour	EY14STOWL	<b>8.40</b>	24mm	Lg. Great Horned Owl, Straw	EY24STOWL	<b>15.05</b>

We can get almost anything you need - give us a call!

Try us for whatever your eye needs are. We can also supply eyes with slit and elliptical pupils as well as lizard, amphibian and snake eyes.

# Glass Eyes (cont)



All Eyes shown actual size. Price is per pair.

With one of the best selections of eyes for carvers in Western Canada (if not all of Canada), we can supply any of your glass eye needs. Our money back guarantee and fast shipping on eye orders means you can buy eyes from us with confidence. We usually have over 4,000 pairs in stock, including special pupil shapes and custom eye colours. Everything listed is available for immediate shipping.

**Standard (Production) Grade Eyes** (not on wire). Very nice machine-made eyes. Reasonably priced and consistent in size and pupil diameter. Available in clear with black pupil, solid black, or 5 colours. Coloured eyes have baked enamel backs.

- Colours:
- brown (BR)
  - dark brown (DB)
  - hazel (HZ)
  - red (RD)
  - yellow (YL)

To order a 7mm red eye, order Item # EY7RD. A 12mm brown eye would be # EY12BR.

**Competition Grade Eyes** (not on wire). Our best eyes. Basic colour selection is same as standard grade eyes. Can also be custom painted for species requiring slightly different colour. We recommend that you let us know which species the eyes are for so we can get the proper colouration.

Colour Codes (insert Code for (\*) in Item # - [page 58](#)):

- BR = Brown
- DB = Dark Brown
- HZ = Hazel
- YL = Yellow
- RD = Red

Also available as clear eyes with black pupil.

All eye prices are per pair.

# Fish Eyes



General-Gold or Trout



General-Silver



Muskie or Pike



Walleye

Natural Eyes #EYFN (size)(colour)



Largemouth Bass



Smallmouth Bass



Muskie or Pike



Rainbow Trout



Walleye

24K Gold #EYFG (size)(colour)



General Use Gold



General Use Silver



General Use Veined



Muskie/Pike



Rainbow Trout

Enamel-back #EYFE (size)(colour)



Rainbow Trout



Muskie or Pike

Flex Eyes #EYFF (size)(colour)

See next page for availability and pricing



Clear Eye with Clear Pupil #EYFC (size)



# Fish Eyes (cont.)

Clear (Flint) w/ Black Pupil		
Size	#	Price
3mm	EYF03	3.29
4mm	EYF04	3.29
5mm	EYF05	3.29
6mm	EYF06	3.29
8mm	EYF08	3.51
9mm	EYF09	3.51
10mm	EYF10	5.63
11mm	EYF11	5.63
12mm	EYF12	5.76
13mm	EYF13	6.21
14mm	EYF14	6.21
16mm	EYF16	6.71
18mm	EYF18	7.16
20mm	EYF20	7.34

Clear (Flint) w/ Clear Pupil		
Size	#	Price
8mm	EYFC08	3.29
10mm	EYFC10	3.51
12mm	EYFC12	5.76
14mm	EYFC14	6.21
16mm	EYFC16	6.71
18mm	EYFC18	7.16

Natural Fish Eyes Our best, most realistic glass eyes			
Size	Species	Item #	Price
10mm	Gen. Gold	EYFN10GNG	12.87
12mm	Gen. Gold	EYFN12GNG	12.87
14mm	Gen. Gold	EYFN14GNG	12.87
16mm	Gen. Gold	EYFN16GNG	14.04
18mm	Gen. Gold	EYFN18GNG	14.04
20mm	Gen. Gold	EYFN20GNG	15.21
10mm	Gen. Silver	EYFN10GNS	12.87
12mm	Gen. Silver	EYFN12GNS	12.87
14mm	Gen. Silver	EYFN14GNS	12.87
16mm	Gen. Silver	EYFN16GNS	14.04
18mm	Gen. Silver	EYFN18GNS	14.04
20mm	Gen. Silver	EYFN20GNS	15.21
10mm	Muskie / Pike	EYFN10MPK	12.87
12mm	Muskie / Pike	EYFN12MPK	12.87
14mm	Muskie / Pike	EYFN14MPK	12.87
16mm	Muskie / Pike	EYFN16MPK	14.04
18mm	Muskie / Pike	EYFN18MPK	14.04
20mm	Muskie / Pike	EYFN20MPK	15.21
10mm	Walleye	EYFN10WA	12.87
12mm	Walleye	EYFN12WA	12.87
14mm	Walleye	EYFN14WA	12.87
16mm	Walleye	EYFN16WA	14.04
18mm	Walleye	EYFN18WA	14.04
20mm	Walleye	EYFN20WA	15.21

24K Gold-backed Species-Specific			
Size	Species	Item #	Price
12mm	Bass-LgMouth	EYFG12LB	7.02
14mm	Bass-LgMouth	EYFG14LB	9.09
16mm	Bass-LgMouth	EYFG16LB	9.36
12mm	Bass-SmMouth	EYFG12SB	7.02
14mm	Bass-SmMouth	EYFG14SB	9.09
16mm	Bass-SmMouth	EYFG16SB	9.36
8mm	Muskie / Pike	EYFG08PK	5.85
10mm	Muskie / Pike	EYFG10PK	6.44
12mm	Muskie / Pike	EYFG12PK	7.16
14mm	Muskie / Pike	EYFG14PK	9.09
16mm	Muskie / Pike	EYFG16PK	9.36
18mm	Muskie / Pike	EYFG18PK	9.68
20mm	Muskie / Pike	EYFG20PK	9.95
8mm	Rainbow Trout	EYFG08RT	5.85
10mm	Rainbow Trout	EYFG10RT	6.44
12mm	Rainbow Trout	EYFG12RT	7.16
14mm	Rainbow Trout	EYFG14RT	9.09
16mm	Rainbow Trout	EYFG16RT	9.36
18mm	Rainbow Trout	EYFG18RT	9.68
20mm	Rainbow Trout	EYFG20RT	9.95
8mm	Walleye	EYFG08WA	5.85
10mm	Walleye	EYFG10WA	6.44
12mm	Walleye	EYFG12WA	7.16
14mm	Walleye	EYFG14WA	9.09
16mm	Walleye	EYFG16WA	9.36
18mm	Walleye	EYFG18WA	9.68
20mm	Walleye	EYFG20WA	9.95

Enamel-backed for Muskie / Pike:		
6mm	EYFE06MPK	5.00
8mm	EYFE08MPK	5.40
10mm	EYFE10MPK	5.85
12mm	EYFE12MPK	6.80
14mm	EYFE14MPK	8.91
16mm	EYFE16MPK	9.09
18mm	EYFE18MPK	9.36
20mm	EYFE20MPK	9.63
for Rainbow Trout:		
6mm	EYFE06RT	5.00
8mm	EYFE08RT	5.40
10mm	EYFE10RT	5.85
12mm	EYFE12RT	6.80
14mm	EYFE14RT	8.91
16mm	EYFE16RT	9.09
18mm	EYFE18RT	9.36
20mm	EYFE20RT	9.63

Enamel-backed for General Use			
Size	Colour	Item #	Price
3mm	GOLD	EYFE03GNG	4.10
4mm	GOLD	EYFE04GNG	4.10
5mm	GOLD	EYFE05GNG	4.10
6mm	GOLD	EYFE06GNG	4.10
8mm	GOLD	EYFE08GNG	4.41
10mm	GOLD	EYFE10GNG	5.00
12mm	GOLD	EYFE12GNG	5.27
14mm	GOLD	EYFE14GNG	5.85
16mm	GOLD	EYFE16GNG	6.75
18mm	GOLD	EYFE18GNG	7.02
20mm	GOLD	EYFE20GNG	7.61
6mm	SILVER	EYFE06GNS	4.10
8mm	SILVER	EYFE08GNS	4.41
10mm	SILVER	EYFE10GNS	5.00
12mm	SILVER	EYFE12GNS	5.27
14mm	SILVER	EYFE14GNS	5.85
16mm	SILVER	EYFE16GNS	6.75
18mm	SILVER	EYFE18GNS	7.02
20mm	SILVER	EYFE20GNS	7.61

Enamel-backed for General Use (continued)			
Size	Colour	Item #	Price
6mm	VEINED	EYFE06GNV	5.27
8mm	VEINED	EYFE08GNV	5.58
10mm	VEINED	EYFE10GNV	5.99
12mm	VEINED	EYFE12GNV	6.71
14mm	VEINED	EYFE14GNV	8.51
16mm	VEINED	EYFE16GNV	8.78
18mm	VEINED	EYFE18GNV	9.09
20mm	VEINED	EYFE20GNV	9.36

Flex™ Fish Eyes (not glass but extremely realistic)			
Size	Species	Item #	Price
12mm	Rainbow Trout/Crappie	EYFF12RBCR	9.27
14mm	Walleye	EYFF14WE	11.43
12mm	LM Bass/Muskie/Pike	EYFF12LMNP	9.27
14mm	LM Bass/Muskie/Pike	EYFF14LMNP	10.53
16mm	LM Bass/Muskie/Pike	EYFF16LMNP	10.53
18mm	LM Bass/Muskie/Pike	EYFF18LMNP	10.53
20mm	LM Bass/Muskie/Pike	EYFF20LMNP	11.43

We can supply other fish, reptile and amphibian eyes by special order. Just tell us your needs and we will do our best to supply great eyes for your next project.

All eyes listed above are normally kept in stock for immediate shipping. For special orders allow up to 3 weeks.

# Vision Aids

## OptiVISOR<sup>®</sup> Optical Glass Binocular Magnifier

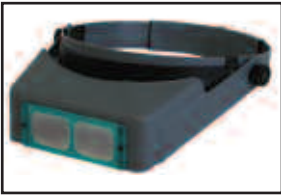
Having trouble seeing the fine detail? We have the solution! From our convenient clip-on magnifiers through economical Opti-SIGHT™ magnifiers to the top-of-the-line OptiVISOR™ and OptiVISOR™ LX headband magnifiers, you'll find a magnifier to suit your needs. They are all comfortable to wear, easy on the eyes and made from quality optical glass or acrylic. All offer a "binocular" view for accurate depth perception.



**Opti-SIGHT™** magnifier includes 3 easy-to-change optical grade acrylic prismatic lenses: #3 (14" focus, 1.75X), #4 (10" focus, 2.00X), and #5 (8" focus, 2.50X). Visor tilts up for normal viewing and down for magnification. Good for short-duration and hobby use (headband can get uncomfortable if worn for long periods).  
Note: Frame colour will vary. # OPTISIGHT **\$38.35**



**Clip-on Magnifier** can be used with most eyeglass frames in front of your existing prescription lenses, or can be attached to the binocular frame (included). Easily pivots up when not in use. Great for smaller tasks. Available in your choice of 2 different magnifications. For most applications, the #3 is the best choice.  
Magnifier w/ #3 lens (14" focus, 1.75X) # VISORCO-3 **\$38.35**  
Magnifier w/ #4 lens (10" focus, 2.00X) # VISORCO-4 **\$38.35**



**OptiVISOR™ and OptiVISOR™ LX.** Top-of-the-line headband magnifier. The original OptiVISOR™ features adjustable side pivots, an adjustable full headband with a leather and orthopedic felt-padded comfort band and precision-ground optical glass lenses for unsurpassed quality and durability. The OptiVISOR™ LX uses the same headband but incorporates optical acrylic prismatic lenses for reduced weight and cost. OptiVISOR™ and OptiVISOR™ LX are your best choices for the least eye and head fatigue, especially when used for extended periods.

**OptiVisor™ LX #3** (acrylic). 1.75X magnification, 14" focus # VISORLX3 **\$42.85**  
**OptiVisor™ #3** (glass). 1.75X magnification, 14" focus # VISOR3 **\$59.50**  
**OptiVisor™ #4** (glass). 2.0X magnification, 10" focus # VISOR4 **\$59.50**

If you can't read this, you need an OptiVisor!

© you CAN read this, you probably don't need one.

### Replacement or extra Glass Lenses (fit OptiVISOR or OptiVISOR LX):

#3 (# LP3) or #4 (# LP4) **\$36.25 ea**  
#5 8" focus, 2.5X magnification # LP5 **\$36.25**  
#7 6" focus, 2.75X magnification # LP7 **\$38.35**  
#10 4" focus, 3.5X magnification # LP10 **\$38.35**

**Replacement leather comfort band** for OptiVisor or OptiVisor LX # VISORPT3 **\$7.80**



**OptiLOUPE™** 2.5X monocular adds 2.5x magnification to visor for OptiVisor™ and OptiVISOR LX only; will not fit Clip-on or OptiSIGHT™. Attaches to either side; swings away when not in use.  
# **OPTILOUPE \$13.25**



**New! VisorLIGHT** will fit on most headband magnifiers, illuminating the magnified viewing area. It easily adjusts up or down for maximum illumination. Xenon laserbeam bulb gives 6000 candle-power brightness and up to 5 hours of battery life with 2 - AA batteries (not included). A very convenient, hands-free way to get more light on your work.  
# **VISORLIGHT \$32.45** (visor not included)

### FAQ: How do I know which lens I should get?

**A.** Generally, the #3 lens is your best starting point. It gives the best combination of magnification and comfort. You can work around 14" away from your eyes and you still have good depth-of-field (meaning that things somewhat closer as well as further than 14" will still be easily seen). With higher magnifications, the focus distance gets closer, depth-of-field drops quickly and eye fatigue is more likely. As my eyes get older (along with the rest of me) I still use my #3 visor, but use the #4 more, and I've added a #7 for my very fine work. I put an OptiLOUPE on my #4 visor - it's unbeatable for super-tiny detail and removing slivers.

# Eye, Foot, Bill & Study Cast Reference Chart (pgs.63-66)

**How to use this chart.** Use this chart to find availability of eyes, feet, study bills and study casts for most species of North American birds (as well as a few exotics like Toucans and Rollers).

**Eyes** (cat p.58-61): Most common size and colour is shown. Use as a guide; variations in size and colour will occur from one individual to another. Be sure to consult further reference if exact size and colour is important. In most instances, black eyes and dark brown eyes can be interchanged with good results. Colours used in this chart are as follows: **LB**=Light brown; **BR**=Medium brown; **DB**=Dark brown; **HZ**=Hazel; **RD**=Red; **GR**=Green; **DY**=Deep yellow; **LY**=Light yellow, **YL**=Medium yellow, **BL**= Black. Other colours as listed.

**Feet** (cat. p.53,54): If a suitable cast pewter foot is made, it will be listed in this column. The number shown is our catalogue# (minus the "FT" prefix). ie: under Brewer's Blackbird, "BJAY" would indicate our cat# "FTBJAY". Feet for a Blue Jay could be used, as there are no feet made specifically for the blackbird.

**Substituting Feet:** Where an "Sub" appears under the Cast Foot column, there is a cast foot that could be substituted. Sometimes the best substitute foot will be listed beside the "Sub", indicating which foot would give the closest match. Where the best substitute is not listed, (Sub - call) you can contact us with some measurements for your bird and we will provide a suitable foot. Substitute feet will be close to correct, but not a perfect match.

**Bills** (cat. p.50-52): If box is grey, no bills are available for this species. Otherwise, the bill number will be indicated (minus the "SB" prefix). ie: Bald Eagle indicates "332" - use # SB332; Catbird indicates "CATB" - use # SBCATB. "+" behind the bill number indicates that multiple bill choices exist (ie. full-head bill *and* taxidermy bills are available).

**Study Casts** (cat. p.47-50): If a cast is available, it will be indicated here, along with its scale. ie: Bald Eagle indicates "1/5 LS" (Life-size), while the Indigo Bunting indicates LS.

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Anhinga	9BR			
Avocet	8DB			
Bittern, American	14YL		AMBIT	
Bittern, Least	8YL			
<b>Blackbird,</b>				
Brewer's	6YL	BJAY		
Red-winged	5BL or DB	ROBIN		
Rusty (male)	5LY	ROBIN		
Rusty (female)	5YL	ROBIN		
Tri-coloured	5BL or DB	ROBIN		
Yellow-headed	6BL or DB	BJAY		
Bluebird, Eastern	5BL or DB	BBIRD		LS-#07 & #53
Bluebird, Mountain	6BL or DB	EVENI		
Blue Jay	9DB	BJAY or #07	285	#13%, 20%, 46%
Bobolink	5BL	Sub - call		
Brant, Pacific	11DB		152	
Bullfinch	6DB	Sub - call		
<b>Bunting, Indigo</b>	5BL	BBIRD		LS-#11
Lark	5BL	ORIOL		
Lazuli	5BL	BBIRD		
Painted	5BL	BBIRD		
Snow	4-5BL	ORIOL		
Buzzard	12DB			
Canary	3BL	01 or CHICK		
Cardinal	5BL	CARD	#B	LS #08 or #34 1/2LS #27
Catbird	5BL	06 or ROBIN	CATB	
Chickadee (all)	4BL	01 or CHICK		LS #04, 24, or 41
Chicken, Domestic	10HZ			
Condor	16DB			
Coot	8RD		250/COOT	
<b>Cormorant,</b>				
Double-crested	12GR			
Olivaceous	12GR			
Cowbird	6BL	06/ROBIN		
Crane, Common	12YL			

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
<b>Crane, Sandhill</b>	12YL		162	
Whooping	12YL			
Creeper, Brown	5BL	Sub - call		
Crossbill	5BL	03 or EVENI		
Crow	11DB	CROW	280	
Cuckoo, Yellow-billed	7BR			
Curlew, Eskimo	8BR			
Curlew, Long-billed	9DB			
Dipper	5BL	Sub - call		
Dowicher, Long-billed	7DB			
Dowicher, Short-billed	7DB			
Dove, Mourning	7DB	09 or DOVE	264+MD	LS #12
Dove, Turtle	7BR			
Dove, White-winged	8DY	WDOVE	262	
<b>Duck:</b>				
Black Duck (both)	11BR	MAL	014/015	
Blue-wing Teal both	9BR	GWT	088/086	
Bufflehead M	9BR	BUFFL	070	
Bufflehead F	8BR	BUFFL	072	
Canvasback M	10RD	CANVS	030	
Canvasback F	10BR	CANVS	032	
Cinnamon Teal M	9RD	GWT	004	
Cinnamon Teal F	9BR	GWT	002	
Gadwall both	10BR	MAL	066/064	
Garganey both	9BR			
Gold'ey,Barrows M	10YL		078	
Gold'ey,Barrows F	10LY		080	
Gold'ey,Common M	10YL		048	
Gold'ey,Common F	10LY		046	
Green-wing Teal M	10LB/HZ	GWT	026	
Green-wing Teal F	10LB	GWT	028	
Harlequin M	9DB		076	
Harlequin F	9BR		074	
Labrador M	11HZ		SBLAB	
Long-tailed M	9LB		096	
Long-tailed F	9BR		094	

Eye Chart #21 ©2016 Cam R. Merkle. Unauthorized duplication strictly prohibited.

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
<b>Duck:</b> (cont.)				
Mallard both	11BR	MAL	014/015	
Mandarin both	11LB	WDUCK	144/146	
Pintail both	10BR	PINTL	018/019	
Pochard M	10RD			
Pochard F	10BR			
Redhead M	10YL		062	
Redhead F	10BR		064	
Ring-necked M	9YL		058	
Ring-necked F	9BR		056	
Ruddy both	9DB		124	
Scaup, greater M	10YL		034	
Scaup, greater F	10DY		036	
Scaup, lesser M	9YL		038	
Scaup, lesser F	9DY		040	
Shoveller M	10YL	PINTL	053	
Shoveller F	10BR	PINTL	054	
Smew	10DB			
Tufted	10YL			
Whistling fulvous	10BR		140	
Wigeon M	10HZ/LB	WGEO	010	
Wigeon F	10BR	WGEO	012	
Wood Duck M	11RD	WDUCK	006	
Wood Duck F	11BR	WDUCK	008	
Eagle, Bald	16 Straw		332	1/5LS #22
Eagle, Golden	18DB		333	
Egret, Cattle	7YL			
Egret, Snowy	7YL			
Eider, Common	10BR		082/084	
Eider, King M	10DB		112	
Eider, King F	9BR		110	
Eider, Spectacled	9BLUE		116/114	
Eider, Steller's M	8BL		108	
Eider, Steller's F	8BR		106	
Falcon, Prairie	13DB	PEREG		
Falcon, Peregrine	13DB	PEREG	309	1/4LS #30
Finch, House	5BL	WTSPA	HFINCH	
Finch, Purple	5BL	WTSPA		LS #35
Flicker, Northern	7DB/BL	FLICK	702	2/3LS #39
Gallinule, Common	10DB		252	
Gallinule, Purple	10RD		254	
Godwit, Hudsonian	7DB			
Godwit, Marbled	8DB			
Goldfinch	4BL	GOLD		LS #56
Goose, Blue	12BR		099	
Goose, Cackling	10DB		130	
Goose, Canada	12DB	MINI	136	
Goose, Ross's	12BR		022	
Goose, Snow	12BR		100	
Goose, White-fronted	12BR		104	
Goshawk	13RD			1/3LS #37
Grackle, Common	7BL		289	
Grebe, Eared	8RD*			

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Grebe, Horned	8RD*			
Grebe, Pied-billed	7RD/7BR			
Grebe, Red-necked	10BR			
Grebe, Western	12RD*		WGREG	
Grosbeak, Blue	6BL	EVENI		
Grosbeak, Evening	6BL	EVENI		
Grosbeak, Pine	7DB or BL	ROBIN		
Grosbeak, Rose-breasted	6BL	EVENI		LS #42
Grouse, Blue	8HZ		242	
Grouse, Ruffed	9HZ	10	228+	
Grouse, Sage	10BR		229	
Grouse, Sharp-tailed	10HZ	GROUS	240+	
Grouse, Spruce	9BR	10	226+	
Gull, California	11BR			
Gull, Franklin's	9BR		FRGUL	
Gull, Herring	12YL	HERGL		
Gull, Laughing	9BR			
Gull, Ring-billed	10YL	RBGUL		
Gyr Falcon	14DB			
Hawk, Broad-winged	10LB	BWHWK		
Hawk, Cooper's	10RD	COOPR	314	
Hawk, Ferruginous	12BR			
Hawk, Harris'	12BR		325	
Hawk, Harrier/Marsh	12DB			
Hawk, Red-shouldered	12DB		308	
Hawk, Red-tailed	13DB	RTHWK	310	1/4SL #16
Hawk, Rough-legged	13BR			
Hawk, Sharp-shinned	9RD	SSHIN	312	
Hawk, Sparrow	9DB	KESTR	318	1/2LS #29
Hawk, Swainson's	13DB			
Hawk Owl, Northern	12YL			
Heron, Blk. Crown Nite	12YL		291	1/3LS #23
Heron, Great Blue	14YL		294	1/5LS #31
Heron, Green	11LY	GHERON		
<b>Hummingbird:</b>				
Allen's	3BL			
Anna's	3BL			
Broad-billed	3BL			
Calliope	3BL			
Costa's	3BL			
Ruby-throated	3BL			
Rufous	3BL			
Ibis, White	9GRAY			
Jay, Gray	8DB or BL	BJAY	279	
Jay, Scrub	7DB or BL	BJAY		
Jay, Steller's	7DB or BL	BJAY		LS #SC098
Junco	4BL	EVENI		
Kestrel	9DB	KESTR	318	1/2LS #29
Killdeer	8DB	KILDR		2/3LS #58
Kingbird, Eastern	7DB	ROBIN	EKB	
Kingbird, Western	7DB	ORIOL		
Kingfisher, Belted	9DB	KFISH		1/2 LS #15
Kinglet, Gold-crowned	4BL	CHICK		LS #47



Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Kinglet, Ruby-crowned	4BL	CHICK		
Knot, Red	6BL			
Lark, Horned	6BL	EVENI		
Longspur, Lapland	5BL	Sub - call		
Loon, Arctic(Pacific)	12LOON		800	
Loon, Common	14LOON		293	½LS LOONWHI
Loon, Red-throated	12LOON			
Loon, Yellow-billed	14LOON			
Magpie, Black-billed	9DB	MLARK		
Martin, Purple	7BL	CARD		
Meadowlark	7DB	MLARK		
Merganser, Common	10RD		020/042	
Merganser, Hood M	9YL		092	
Merganser, Hood F	9BR		090	
Merganser, Red-breasted both	10RD		120/118	
Merlin	10DB	KESTR	317	2/3LS #36
Mockingbird	8DB	Sub - call		3/4LS #50
Murre, Common	11DB			
Murre, Thin-billed	10DB			
Murrelet, Marbled	7DB			
Myna, Crested	8YL	Sub - call		
Nighthawk, Common	9BL		740	
Nutcracker, Clark's	8DB	ROBIN		
Nuthatch, Pygmy	4BL	CHICK		
Nuthatch,Redbreasted	4BL	Toe-RBNUT		LS #25
Nuthatch, White Br.	5BL	NUTHA		LS #03
Oriole, Northern	5DB or BL	ORIOLE		LS #14
Osprey	14YL			
Ovenbird	5BL	HWREN		
Owl, Barn	14DB		328	1/3LS #44
Owl, Barred	18BLUE		323	
Owl, Boreal	12OWL			
Owl, Burrowing	11YL		319	
Owl, Flammulated	12BL		322	
Owl, Great Gray	20YL			
Owl, Great Horned	20OWL		330	1/3LS #SC087
Owl, Long-eared	14OWL			
Owl, Saw-whet	12OWL		321	LS, 54% 17½
Owl, Screech	14STOWL	OWL	326	1/2LS #18
Owl, Short-eared	14OWL			
Owl, Snowy	18OWL		324	1/3LS #33
Oystercatcher,Black	9YL			
Partridge, Chukar	8BR	CHUK	220	
Partridge, Gray	8HZ		224	
Pelican, Brown	20 LT.GRY	MINI		
Pelican, White	20LT.GRY	MINI		
Phalarope, Northern	6DB			
Phalarope, Red	6DB			
Phalarope, Wilson's	6DB			
Pheasant, Ringnecked	11PHEAS		200	
Phoebe, Say's	7BL			
Pigeon	8DY	PIGON		
Plover, Golden	7DB	KILDR		
Plover, Black-bellied	7DB	BPLOV		

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Plover, Killdeer	8DB	KILDR		2/3LS #58
Plover, Piping	7DB	SEMPLOV		LS #28
Plover, Semipalmated	7DB	SEMPLOV		LS #28
Plover, Snowy	7DB	SEMPLOV		
Prairie Chicken, Greater	10HZ		246	
Prairie Chicken Lesser	10HZ			
Ptarmigan, Rock	8DB			
Ptarmigan,White-tailed	8DB		271	
Ptarmigan, Willow	8DB		270	
Puffin, Atlantic	8DB	WDUCK	912	1/2LS #26
Puffin, Horned	9DB	WDUCK		
Puffin, Tufted	9GRAY	WDUCK	910	
Pyrrhuloxia	6DB	CARD		
Quail, Bobwhite	8DB	BOBWH	237	LS #60
Quail, California	8BR	08		
Quail, Gambel's	8BR	GAMBL	234	
Quail, Mountain	8BR	08	232	
Quail, Scaled	8BR	08	235	
Rail, Clapper	10HZ	GHERON2		
Rail, Sora	6DB	SORA	290	
Rail, Virginia	6HZ			
Rail, Yellow	8DB			
Raven	10DB		288	
Redpoll, Common	4BL	WTSPA		LS #43
Redpoll, Hoary	4BL	TMOUS		
Redstart, American	4DB			
Roadrunner	10YL	RDRUN		1/2LS #55
Robin, American	7DB	ROBIN		
Sanderling	6BL	LSTPP		LS #09
Sandpiper, Least	4BL	LSTPP		
Sandpiper, Pectoral	7DB	YLEG		
Sandpiper, Solitary	6BL	YLEG	SOLSA	
Sandpiper, Spotted	6BL	SPOT		
Sandpiper, Upland	8DB	WILLE		
Sandpiper, Western	5BL	LSTPP		
Sapsucker, Yellow-belly	7DB	RHWP	YBSS	
Scoter, Black (common)	9DB		148	
Scoter, Surf M	9LT.GRY		052	
Scoter, Surf F	9BR			
Scoter,White-winged M	10WHITE		128	
Scoter,White-winged F	10DB			
Shrike, Loggerhead	8DB	ROBIN		2/3LS #51
Shrike, Northern	8DB	ROBIN		2/3LS #51
Siskin, Pine	4BL	GOLD		
Snipe, Wilson's	7DB	KILDR	256	
Sparrow, Chipping	4BL	CWAX		
Sparrow, Harris'	5BL	WTSPA		
Sparrow, House	5BR	WTSPA		
Sparrow, Song	5BL	CWREN		
Sparrow, Tree	5BL	WTSPA		LS #02
Sparrow, Vesper	5BL	CWAX		
Sparrow, White-crowned	5BR	WTSPA		
Sparrow, White-throated	5BR	WTSPA		LS #01
Spoonbill, Roseate	12YL			

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Starling	6DB or BL	BJAY	710	
Stilt, Black-necked	8DB		914	
Swallow, Bank	6BL	CWAX		
Swallow, Barn	6DB	CWAX		LS #48
Swallow, Cliff	6BL	CWAX		
Swallow, Tree	6BL	CWAX		
Swan, Trumpeter	13BR		171	
Swan, Tundra	13BR		170	
Swift, Chimney	6BL			
Tanager, Scarlet	6DB or BL	ORIO		
Tanager, Summer	6DB or BL	ORIO		LS #38
Tanager, Western	6DB or BL	ORIO		LS #38
Tern, Arctic	7DB			
Tern, Black	7BL			
Tern, Caspian	10DB			
Tern, Common	8DB			
Tern, Forster's	8DB			
Tern, Least	7DB			LS #40
Tern, Royal	12DB			1/2LS #40
Thrasher, Brown	6YL	ROBIN		
Thrasher, Curve-billed	8YL	ROBIN		
Thrush, Hermit	6DB or BL	ORIO		
Thrush, Swainson's	6DB or BL	ORIO		
Thrush, Varied	6DB	ORIO		
Thrush, Wood	6DB	WTHR		
Titmouse	4BL	TMOUS		
Towhee, Spotted	6RD	EVE		LS #47
Toucan	8-10DB			1/3LS #59
Turkey, Wild	12BR			
Turnstone, Black	6DB			
Turnstone, Ruddy	6DB			

Species	Eye Size & Colour	Cast Foot	Bill	Study Cast
Veery	6DB			
Vireo, Red-eyed	5RD			
Vireo, Solitary	5DB			
Vireo, Warbling	5BL			WVIREO
Vulture, Black	12BR			
Vulture, Turkey	13BR			
Warbler (most)	4BL	CHICK		
Warbler, Tennessee	4BL	CHICK	TENWA	
Warbler, Yellowrumped	4BL	CHICK		LS #21
Waterthrush, Northern	5BL	HWREN		
Waxwing, Bohemian	5BL	BBIRD		
Waxwing, Cedar	5BL	TMOUS	720	LS #05
Whimbrel	9DB			
Whip-poor-will	8BL			
Willet	8DB	WILLE		
Woodcock	9BR	WCOCK	258	2/3LS #49
Woodpecker, Downy	6BL	DOWNY		LS #06 & #57
Woodpecker, Hairy	7DB	RHWP		
Woodpecker, 3-toed	7DB	RHWP		
Woodpecker, Pileated	11Lt.YL	PILEA	700	
Woodpecker, Red-headed	7BR	RHWP		
Wren, Beweck's	4BL	HWREN		
Wren, Cactus	4BL	HWREN		
Wren, Carolina	4BL	CWREN		LS #32
Wren, House	4BL	HWREN		
Wren, Long-billed Marsh	4BL	HWREN		
Wren, Winter	4BL	HWREN		
Yellowlegs, Greater	8DB	WILLE		
Yellowlegs, Lesser	7DB	YLEGS		
Yellowthroat, Common	4BL	CWAX		

Eye Chart #21 ©2016 Cam R. Merkle.  
Unauthorized duplication strictly prohibited.

### Index

Abrasives	15-17,22,23,34-36	Dura-GRIT™	28	Reference Booklets	91,92
Abrasive Gun	73	Dust Collector	131,132	Ruby Carvers	24,25
Airbrushing	71-76	DVD's	10,97,98,100	Saburrtooth™ Burs	31-34
Airbrush Paints	67	Epoxy Putty & Glue	41,42	Sanders, Cushion	23
Air Turbines		Eyes	58-61	Sanding Cones/Bands	17,22,39
-Ultra High Speed	19,20	Eye Drills	26	Sanding Sticks	39
Bandsaw Blades	38	Eye Chart	63-66	Sandpaper	16,17,23,39
Blanks	56,57	Feet, Cast	53,54	Sealers	82
Books	83-100	Foredom™	7,10-18	Solder	44
-New Titles	83	Gesso	70	Sticks, Texturing	36
-Pyrography	99,100	Glue	41	Stones, Texturing	21,35,36
Brass tube, rod etc.	43-46	Goldies™	27	Study Bills	50-52
Brushes		India Ink	69	Study Casts	47-50
-Painting	78-81	Iridescent Powder	67	Studynotes	82
-For Motor Tools	4,7,12	Knives	40	Stump Burs	26
Buffing/Polishing	37	Magnifiers	62	Suction Pickup Tool	77
Burs, 1/16" FG	20,21	Mandrels	15,22,23	Tweezers	45
Burs (power carving)	20-37	Metal tube, rod, sheet	43-46	Typhoon™ Burs	29,30
Bur Holders	18	Micromotors	4-9	Vermiculating Pen	77
Carving Drills	27	Optivisors	62	Wood	55
Chart -Eye, Foot, Bill	63-66	Patterns	56,57	Woodburning	101-130
Cleaners for Bits	25	Painting Supplies	67-82	-Accessories	105,106
Collet Adapters	4,18	Paints	67-70	-Feather Formers™	128-130
Colour Chart	68,77	Pens, Burning	108-130	-Scale Pens and Tips	124-126
Compressor	20,71,72,75	Pin Vises	24,25	-Starter Packages	104
Cutters	20-37	Polishing Compound	37	-Tip Sets	127
Diamond Burs	21,24,25	Pyrography Kits	98	-Tip Shapes	110-130
Diamond Hone	36,38	Pyrography Paper	98	-Tip Wire	123

## Airbrush Paints



**Chroma Airbrush  
Paints \$4.35 ea.  
2 oz. (60 ml.) Bottle**

Chroma airbrush paints have been refined and newly reformulated, representing the finest in co-polymer technology. They use a polyurethane binder and give a nice velvet matte finish. Water-based and non-toxic, they can be used on almost any paintable surface, and they can be mixed with Jo Sonja's paints. All colours are supplied in 60ml (2 oz) bottles. **\$4.35** per bottle.

### Free Colour Chart available on request.

Colour	Item #	Colour	Item #	Colour	Item #
Blue Interference	JC508	Green Interference	JC506	Raw Sienna	JC493
Blue Violet	JC534	Golden Glow	JC518	Raw Umber	JC495
Brilliant Green	JC519	Gold Oxide	JC521	Sable	JC501
Brown Earth	JC523	Indian Yellow	JC526	Smoked Pearl	JC511
Burnt Sienna	JC494	Magenta	JC527	Taupe	JC504
Burgundy	JC524	Napthol Crimson	JC489	Titanium White	JC486
Burnt Umber	JC496	Napthol Red Lt.	JC528	Turquoise	JC532
Canary	JC513	Nimbus Grey	JC491	Ultramarine Blue	JC490
Carbon Black	JC497	Nutmeg	JC502	Vermillion	JC533
Cerulean Blue	JC525	Paynes Grey	JC492	Violet Interference	JC509
Chestnut	JC500	Peach	JC529	Warm White	JC487
Driftwood	JC498	Pthalo Blue	JC530	Yellow-green Interference	JC507
Ebony	JC499	Phthalo Green	JC520	Yellow Oxide	JC488
		Purple	JC531		

The following colours have been discontinued and are available while stock lasts at **\$2.50/bottle**:

Azure **#JC516** Indigo **#JC515**

## Iridescent Powders



This is the best thing made for that metallic iridescent sheen on many birds. Each set contains 11 different colours: Blue, Blue-Green, Copper, Emerald, Gold, Red, Rouge Flambe, Super Green, Antique Silver, Violet, Pearl White. A little of this stuff goes a long way. HINT: Mix with transparent paint washes (acrylic or oil). Shows best over dark colours (black or dark brown). Available in 2 different sized sets - the small set is a great way to try them out; the large set will last most carvers a very long time.

Small Set ~0.5 grams\*/colour # IRID-SM **\$8.50**

Large Set ~7 grams\*/colour # IRID-LG **\$29.70**

**Individual Colours available \$4.75 / 7 grams\*:**

**IRIDBLUE**

**IRIDBLUEGREEN**

**IRIDCOPPER**

**IRIDEMERALD**

**IRIDGOLD**

**IRIDRED**

**IRIDROUGE**

**IRIDSGREEN**

**IRIDSILVER**

**IRIDVIOLET**

**IRIDWHITE**

*Note: Some colours are more dense than others, so some colours will appear to fill the container more than others.  
\*Weights are approximate.*

## Atelier® Free Flow Colours 2 oz. (60 ml.) bottle

Colour	Item #	Price	Colour	Item #	Price
Titanium White	JA105	9.10	Cerulean Blue Hue	JA115	10.60
Arylamide Yellow Light	JA108	11.80	Pthalo Blue	JA103	9.10
Cadmium Yellow Light	JA133	16.80	Cobalt Turquoise Light	JA135	22.05
Cadmium Yellow Medium	JA111	16.80	Pthalo Green	JA104	9.10
Arylamide Yellow Deep	JA124	11.80	Viridian Green Hue	JA114	9.10
Cadmium Orange	JA129	16.80	Permanent Green Light	JA120	10.60
Pyrrrole Orange	JA127	11.80	Chromium Green Oxide	JA116	10.60
Red Gold	JA128	11.80	Yellow Ochre	JA106	9.10
Cadmium Red Light	JA130	16.80	Light Red Ochre	JA102	9.10
Pyrrrole Red	JA109	11.80	Burnt Sienna Natural	JA112	9.10
Napthol Crimson	JA126	11.80	Transparent Burnt Sienna	JA122	10.60
Cadmium Red Medium	JA131	16.80	Indian Red Oxide	JA118	10.60
Permanent Alizarine	JA134	16.80	Raw Umber	JA113	9.10
Quinacridone Magenta	JA110	11.80	Raw Sienna Natural	JA136	9.10
Dioxazine Purple	JA125	11.80	Transparent Raw Sienna	JA123	10.60
French Ultramarine Blue	JA107	10.60	Burnt Umber	JA100	9.10
Pthalo Blue (Red Shade)	JA121	10.60	Carbon Black	JA101	9.10
Cobalt Blue Hue	JA117	10.60	Paynes Grey	JA119	10.60

Atelier® Free Flow is the most fluid and vivid acrylic on the market. It's a professional quality acrylic with unique characteristics and maximum pigment load. It uses the latest advances in pigment and polymer technology. Atelier® Free Flow glides from the brush with very little dilution required (great for fine detail), but if desired it can also be diluted significantly (i.e washes) with little or no break-down. This ensures brilliant pigment strength is retained. Painting light over dark colours is far easier, and the integrity of the paint itself remains strong and durable. It dries to a velvet matte finish with rich and vibrant colour, and it's compatible with Chroma Air Brush paints and Jo Sonja's paints and mediums.



### Need Help with Colour?



#### Keith Mueller Color Harmony & Dynamic Mixing Guide

The best tool for understanding colour and colour harmony, along with understanding how pigments work together to create colour. Complete with manual. 18"x24" #KM100 \$59.95

# Jo Sonja's Paints

Used by many of the world's best carvers, Jo Sonja's paints differ from regular acrylics in several ways. First, they are an acrylic gouache (pronounced "gwash"), meaning they are somewhat more opaque than other acrylics. Second, they are not shiny like other acrylics. They give a suede matte finish for life-like plumage on bird carvings or a pleasing finish on flat surfaces. Gloss can be increased by adding gloss varnish directly to the paint. They are one of the most economical paints around. I recommend that you get a few of the mediums ([page 70](#)), especially the flow medium and retarding medium. Jo Sonja's paints will mix readily with other brands of acrylic paints.



Regular Jo Sonja's Colours 2.5 oz. (75 ml.) tube			Regular Jo Sonja's Colours 2.5 oz. (75 ml.) tube		
Colour	Item #	Price	Colour	Item #	Price
Amethyst	J001	4.60	Olive Green	J600	4.60
Antique Green	J592	4.60	Opal	J026	4.60
Aqua	J002	4.60	Orange	J700	7.40
Blue Violet	J699	4.60	Pacific Blue	J601	4.60
Brilliant Green	J003	4.60	Paynes Grey	J031	4.60
Brilliant Magenta	J594	4.60	Perm. Alizarine	J602	7.40
Brilliant Violet	J595	4.60	Pine Green	J027	4.60
Brown Earth	J004	4.60	Plum Pink	J028	4.60
Brown Madder	J606	7.40	Provincial Beige	J029	4.60
Burgundy	J005	4.60	Prussian Blue Hue	J030	4.60
Burnt Sienna	J006	4.60	Phthalo Blue	J032	4.60
Burnt Umber	J007	4.60	Phthalo Green	J033	4.60
Cad. Orange	J607	9.50	Purple Madder	J610	7.40
Cad. Scarlet	J008	9.50	Raw Sienna	J034	4.60
Cad. Yellow Lt.	J009	9.50	Raw Umber	J035	4.60
Cad. Yellow Mid.	J010	9.50	Red Earth	J036	4.60
Carbon Black	J011	4.60	Red Violet	J611	7.40
Celadon	J596	4.60	Rose Pink	J037	4.60
Cobalt Blue Hue	J012	4.60	Sap Green	J612	4.60
Colony Blue	J013	4.60	Sapphire	J038	4.60
Diox. Purple	J014	9.50	Skin Tone Base	J603	4.60
Fawn	J015	4.60	Smoked Pearl	J039	4.60
French Blue	J016	4.60	Storm Blue	J040	4.60
Gold Oxide	J017	4.60	Teal Green	J041	4.60
Green Light	J597	4.60	Titanium White	J048	4.60
Green Oxide	J018	4.60	Transp. Magenta	J042	9.50
Hookers Green	J608	4.60	Turners Yellow	J043	4.60
Indian Red Oxide	J019	4.60	Ultra. Blue	J045	4.60
Indian Yellow	J609	4.60	Ultra. Blue Deep	J044	4.60
Jade	J020	4.60	Unbleach Titanium	J604	4.60
Jaune Brilliant	J598	4.60	Vermillion	J046	4.60
Moss Green	J021	4.60	Warm White	J047	4.60
Naples Yellow Hue	J599	4.60	Yellow Deep	J593	4.60
Naphthol Crimson	J022	4.60	Yellow Green	J697	4.60
Naphthol Red Lt.	J023	4.60	Yellow Light	J049	4.60
Nimbus Grey	J024	4.60	Yellow Orange	J698	4.60
Norweg. Orange	J025	4.60	Yellow Oxide	J050	4.60

Free colour chart available on request - Item # J3889

Metallic and Iridescent Colours		
Metallic Colours 2.5 oz.	Item #	Price
Pearl White	J051	7.75
Burnish Copper	J052	7.75
Pale Gold	J053	7.75
Rich Gold	J054	7.75
Rose Gold	J701	7.75
Silver	J055	7.75
Iridescent Colours 2 oz. bottles		
Blue Iridescent	J3152	7.40
Gold Iridescent	J3153	7.40
Green Iridescent	J3151	7.40
Red Iridescent	J3150	7.40
Turquoise Irides.	J3154	7.40
Violet Iridescent	J3155	7.40

Regular Colours 8 oz. Bottles		
Colour	Item #	Price
Burnt Umber	J3306	11.15
Carbon Black	J3310	11.15
Raw Umber	J3334	11.15
Titanium White	J3347	11.15
Warm White	J3346	11.15
Unbleach Titanium	J3419	11.15

## Speedball® India Ink

Cam uses this ink as a "black" medium. You won't find a deeper, richer black anywhere. Use it to dilute burnt umber or raw umber for a warm rich black unlike anything you've ever seen. Water-thin consistency. Cleans up with ammonia or ammonia-based window cleaner. Very permanent and water-resistant once dry. Cam has even used it straight out of the bottle on a textured and sealed black bird (like a blackbird, crow or raven) with amazing results. A little goes a long way. Available in 2 sizes.



2 oz. bottle # SP3338 \$8.95  
16 oz. bottle # SP3378 \$19.50

# Jo Sonja's Paints (cont.)

## About Jo Sonja's Mediums

**Flow Medium:** Allows paint to flow from brush easily. Good for diluting paint. Cam always uses Flow Medium with Jo Sonja's paints.

**Retarder and Antiquing Medium:** Extends drying and curing time without affecting the finish. Useful for blending techniques as well as when diluting Jo Sonja's paints for airbrush.

**Varnishes:** Not technically a medium, you can add Poly Varnish to toughen paints or to increase the gloss.

**Airbrushing:** A mixture of 75% water, 25% Flow Medium, and a few drops each of Matte Varnish and Retarder makes a great airbrush medium. Use this mixture to dilute Jo Sonja's paints to a light-cream consistency to use them in your airbrush.

## Jo Sonja's Mediums and Misc. Products

Description	Item #	Price	Description	Item #	Price	Description	Item #	Price
<u>All-Purpose Sealer</u> 2 oz. Bottle 8 oz. Bottle	J3602 J3702	2.85 8.95	<u>Retarder/Antiquing</u> 2 oz. Bottle 4 oz. Bottle 8 oz. Bottle	J3603 J3653 J3703	2.85 5.85 8.95	<u>Gesso</u> <u>8 oz. Bottles</u> White Black	J3711 J3713	8.95 8.95
<u>Clear Glaze Medium</u> 8 oz. Bottle	J3708	11.10	<u>Tannin Blocking Sealer</u> 8 oz. Bottle	J3704	8.95	<u>Texture Paste</u> White 11 oz. Jar	J3720	10.15
<u>Flow Medium</u> 2 oz. Bottle 8 oz. Bottle	J3607 J3707	2.85 8.95	<u>Crackle Pack 2 oz.</u> 1 ea. Crackle and Decor Crackle	J3844	5.05	<u>Texture Paste</u> White 2.5oz. Tube Black 2.5oz. Tube	J3847 J3848	6.55 6.55
<u>Poly Gloss Varnish</u> 2 oz. Bottle 8 oz. Bottle	J3601 J3701	3.20 11.10	Other Jo Sonja's mediums are available by special order. Please inquire.			<u>Jo Sonja's Liquid Brush Soap</u> (works with all paint types) 2 oz. Bottle 8 oz. Bottle	J3859 J3860	3.90 9.25
<u>Poly Matte Varnish</u> 2 oz. Bottle 8 oz. Bottle	J3600 J3700	3.20 11.10						

## Jo Sonja's Packaged Sets

	Item #	Price
10 x 20ml (2/3 oz.) Palette Sampler Set contains: Carbon Black, Warm White, Titanium White, Burgundy, Naphthol Red Light, Yellow Light, Ultra Blue Deep, Pine Green, Brown Earth, Rich Gold.	J3901	24.00
10 x 20ml (2/3 oz.) Great Beginnings Sampler Set contains: Carbon Black, Titanium White, Naphthol Crimson, Red-Violet, Yellow Deep, Brilliant Green, Vermillion, Ultramarine Blue, Raw Umber, Rich Gold.	J3931	24.00
12 x 20ml (2/3 oz.) Creative Possibilities Colour Sampler Set contains: Carbon Black, Titanium White, Napthol Red Light, Napthol Crimson, Yellow Light, Yellow-Orange, Yellow-Green, Amethyst, Dioxazine Purple, Blue-Violet, Aqua, Pine Green.	J3875	37.25
6 x 20ml (2/3 oz.) Metallic Set contains: Pearl White, Silver, Pale Gold, Rich Gold, Burnished Copper, Rose Gold.	J3873	19.60
6 x 20ml (2/3 oz.) Iridescent Set contains (all iridescent colours): Blue, Gold, Green, Red, Turquoise, Violet.	J3874	19.60

## Jo Sonja's Carvers Paint Set

A great way to get started with Jo Sonja's paints. Includes 18 of the most popular bird carver's colours along with 2 oz. Flow Medium and 2 oz. Retarding Medium. Colours include: Carbon Black, Titanium White, Unbleached Titanium, Brilliant Green, Brown Earth, Burnt Umber, Diox. Purple, Napthol Red Light, Nimbus Gray, Paynes Gray, Pthalo Blue, Pthalo Green, Raw Sienna, Raw Umber, Smoked Pearl, Ultra Blue Deep, Yellow Light, Yellow Oxide. Regular price \$93.40 # J18K **\$84.00**

# Airbrushes

We sell select airbrushes from Badger, Harder & Steenbeck and Iwata. Each airbrush we offer is selected for its value, quality and serviceability. We carry a full stock of replacement parts and accessories for each and every one of these airbrushes, so you can be assured that the airbrush you buy today will serve you for many years to come, even if something breaks or wears out. If you're not sure which airbrush would be right for you, don't hesitate to get in touch with us and we'll help you select the best airbrush for your needs.

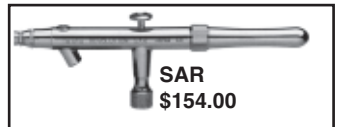
# iwata

Iwata products are covered by their Premier Service Plan - offering a 5 year warranty as well as superb customer service.

Considered by many to be the finest airbrushes available today, Iwata airbrushes have set the standard for precision and reliability. We stock five different Iwata models. We would also be pleased to provide a quote on any Iwata brush not listed here. Every Iwata airbrush we stock (except the SAR) has a dual-purpose, cutaway and pre-set handle for easy clean-up and precise paint flow control. They all use teflon needle packing, permitting use of automotive and other solvent-based paints if desired. Those with gravity-feed colour cups ensure easy clean-up and superb paint flow. They also incorporate a single-piece auxiliary lever/needle-chucking guide for easy assembly.

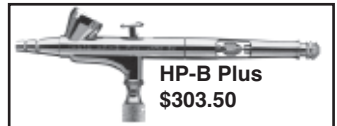
## Revolution Series

**SAR Airbrush.** A single-action siphon-feed brush that's ideal for basecoating and painting larger surfaces. Single-action brushes are easier to use than dual-action brushes, making them a great choice for a first airbrush. Comes with one jar and a wrench. Accepts Com-Art paint bottles if using an Iwata no-rust cap for 1 oz. jars. Extra jars and caps are available (see next page). # IW-R1000 **\$154.00**



## Hi-Performance (HP) Series

**HP-B Plus.** Our top Iwata pick for carvers. 1/16 oz. colour cup gives great versatility from very fine work to blocking in small areas. 0.2mm precision nozzle and needle for high-precision detail spraying. # IW-H2001 **\$303.50**

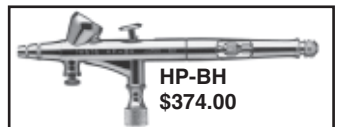


**HP-A Plus.** Same as the HP-B Plus, except with a 1/32 oz. colour cup. A good brush exclusively for fine work. # IW-H1001 **\$303.50**



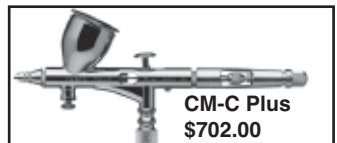
## Hi-Line Series

**HP-BH.** Essentially the same as the HP-B Plus, with the addition of Iwata's exclusive Micro Air Control (MAC) Valve. The MAC enables infinite control of airflow at the head of the airbrush. With one quick turn you can spray anything between a coarse stippling effect to a fine spray pattern. # IW-H2100 **\$374.00**



## Custom Micron Plus Series

**CM-C Plus.** For the elite professional who demands precise and accurate control of very detailed spraying. The CM-C Plus is built to be the best of the best. Specially machined and hand-fitted, and using Iwata's exclusive matched-head assembly for the ultimate in atomization and control. It uses a high precision 0.23mm nozzle and has a 1/3 oz. colour cup. # IW-ICM4500 **\$702.00**



**Special Package** includes Smart Jet compressor and HP-B Plus airbrush.



Everything you need to get airbrushing with the best, at a saving of \$80.

# IW-KIT01 **\$599.00**

(sorry, no substitutions are available for this special package)

# Iwata Compressors and Accessories



## Iwata Neo Air Compressor

A truly portable compressor that can be used almost anywhere. Very quiet, small and light. Works on 120-240V. Output .37CFM @ 15PSI (max). Airbrush holder and hose included. 5.1"x3.9"x2.5", .95lbs (.43kg). # IW-IS30 **\$223.00**



## Iwata Smart Jet compressor

What a super little compressor! Quiet and very small; very low vibration, auto-shut-off. Includes built-in airbrush holder, pressure gauge, moisture trap and hose for Iwata airbrushes. 10"x7"x6", 8lbs (3.6kg). # IW-IS850 **\$375.50**



## Iwata Power Jet Lite Compressor

Kind of a souped-up version of the Smart Jet. Powerful 1/6HP twin pump delivers twice as much CFM (up to 1.2 CFM) as the Smart Jet. Automatically shuts off when not in use. Has a pressure regulator for easy, precise pressure control. It's not a silent compressor, but is very quiet - you could use it almost anywhere.

Includes built-in airbrush holder, regulator, gauge, moisture trap and hose for Iwata airbrushes. 10"x12"x6", 17.5lbs (8kg). # IW-IS925 **\$494.50**



## Iwata Power Jet Pro Compressor

It's like getting two complete compressors! Has all the features of the Power Jet Lite, but this one is designed to run two airbrushes at the same time. Supplied with two each of quick-disconnect ports, pressure gauges, air regulators, moisture traps, hoses and airbrush holders. 13"x9"x7", 26.5lbs (11.9kg) # IW-IS975 **\$645.50**

## Iwata Accessories and Replacement Parts

Need a replacement part for your airbrush? We stock a full range of needles, nozzles and other parts that may need replacing from time to time. If you need something not listed here please let us know - or check our website - if we don't stock it we can get it for you.

10' Braided hose # IW-BT010	<b>\$37.55</b>	Nozzle for all HP-A, B and Plus # IW-I080-7	<b>\$56.40</b>
10' Straight black hose # IW-DTI-10	<b>\$22.70</b>	Nozzle for CM-C, CM-C Plus # IW-I535-2B	<b>\$85.05</b>
10' Coiled cobra hose # IW-CTI-10	<b>\$39.65</b>	Adapter - Iwata brush on Badger hose	
Quick-connect coupler # IW-I160-3	<b>\$23.40</b>	# IW-J002	<b>\$12.35</b>
Extra male end for quick coupler above		Airbrush cleaner 8 oz. bottle # IW-6500-8	<b>\$7.45</b>
# IW-I160-4	<b>\$11.35</b>	Super-lube 1/2 oz. tube # IW-015001	<b>\$13.45</b>
Needle 0.2mm, HP-A, HP-A+ # IW-I075-1	<b>\$19.55</b>	No-rust cap for 1 oz. jars on SAR airbrush	
Needle 0.2mm, HP-B, HP-B+ # IW-I075-2	<b>\$19.55</b>	# IW-I49020	<b>\$8.55ea.</b>
Needle 0.23mm, CM-C, CM-C+ # IW-I540-2	<b>\$37.55</b>	Clear 1 oz. jar fits above lid (for use on SAR)	
Needle for SAR Airbrush # IW-I717-1	<b>\$13.50</b>	# IW-I450-1	<b>\$6.30ea.</b>

## Paasche Replacement Parts

Since the Paasche AB was discontinued a few years ago, we no longer carry any Paasche airbrushes. But we will continue to stock replacement needles and hoses as long as they are available. Other parts can be ordered.

10' Braided hose # PA-A1810	<b>\$20.20</b>	12 Needles for Right-handed AB #PA-A116	<b>\$41.20</b>
6' Plastic hose # PA-HP186	<b>\$12.10</b>	12 Needles for Left-handed AB #PA-A116LH	<b>\$41.20</b>



# Badger™ Airbrush

Badger™ brushes are value-priced, reliable workhorses, used by artists of all skill levels. All Badger™ airbrushes carry a lifetime labour warranty and are fully backed by Badger's exceptional customer service. We stock an extensive selection of airbrushes, parts and accessories. We would also be happy to order any Badger™ products not listed here.

## 100 Series

**Model 100SG** Dual-action, internal mix, gravity feed with a built-in 1/32 oz. fluid cavity. Perfect for quick, easy colour changes and fast clean-up. Hose extra.



100SG \$155.00

with FINE needle # 100-8 \$155.00

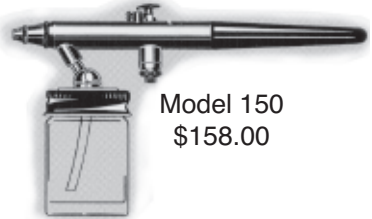
with MEDIUM needle # 100-9 \$155.00

**Model 100G** (not shown) Same as 100SG but with larger 1/16oz. fluid cavity. Hose extra.

w/ FINE needle # 100-3 \$166.50

## 150 Series

**Model 150** Siphon-feed version of the 100SG. The 150 holds much more paint, allowing user to spray longer between refills. Great for blocking in and painting larger areas. Has the same feel and trigger action as the 100SG and uses the same needles and tips. Supplied w/ 2 jars, a hanger and a colour cup. Hose extra.



Model 150  
\$158.00

with FINE needle # 150-2 \$158.00

with MEDIUM needle # 150-1 \$158.00

Extra 1 oz. plastic jar #50-0051 \$2.30 ea.

## Badger™ Abrasive Gun and Accessories:

"Mini Sandblaster" is great for etching glass and giving a satin finish to metals prior to painting. Supplied with 12 oz. abrasive, dust mask and hose. 30PSI recommended, low CFM. # 260-1 \$81.00

**Abrasive** for Abrasive Gun:

12 oz. # 50-260 \$10.15      5 lb # 50-270 \$35.10

**Replacement tip** for 260-1 Abrasive Gun # 50-263 \$8.80

**Rebuild kit** (tip, pickup tube and adjusting screw) # 50-271 \$14.20



## Badger™ Air Hoses

(all hoses have fittings from Badger™ airbrush to a standard 1/4" NPT compressor fitting).

10 foot Braided hose (for general compressor use - reduces condensation) # 50-2011	<b>\$28.35</b>
10 foot Braided hose with in-line drainable moisture trap # 50-2025	<b>\$49.65</b>
10 foot Clear vinyl hose (you can see any moisture in the line) # 50-2030	<b>\$19.95</b>
8 foot thin black vinyl hose (recommended for CO2) # 50-0011	<b>\$16.20</b>

## Needles, Tips, Replacement parts for Badger™ Airbrushes:

**Needles:** Fine # 50-0401 Medium # 50-0402 Heavy # 50-0403 \$10.15

**Tip Only:** Fine # 50-0391 Medium # 50-0392 Heavy # 50-0393 \$10.80

**Tip and Head:** Fine # 50-0381 Medium # 50-0382 Heavy # 50-0383 \$24.00

**Complete head assembly** (tip, head, regulator, teflon washer):

Fine # 50-0161 Medium # 50-0162 Heavy # 50-0163 \$25.65

**Spray Regulators:** Fine # 50-0371 Medium # 50-0372 Heavy # 50-0373 \$11.50

**Tire Adapter:** used w/ a propel regulator, allows use of an inflated tire for air. # 50-029 \$12.50

**Propel Regulator:** for use with tire adapter or Badger™ propellant. # 50-200 \$12.50

**1/4" Adapter** from Badger male end to 1/4" female end #50-023 \$6.90

**Lower Valve Assembly:** fits models 100, 150, 155, 175, 200 & 360 # 50-036 \$24.30

**Valve "O" ring** models 100/150/175/200 #50-0141 \$1.70

**Trigger:** fits models 100, 150, 200 # 50-019 \$10.15

**Teflon Head Washer:** fits models 100, 150, 200 # 50-055 \$4.05

**Moisture Trap** w/ 1/4" standard fittings: # 50-051 \$72.90

**Regulator, filter and gauge** w/ 1/4" std. fittings: # 50-054 \$93.15

**Mini Air Flow Regulator** (1/4" NPT Fittings): # 50-2035 \$18.60

**Double Airbrush hanger:** # 125 \$39.15

**REGDAB Needle Juice** (lubricant): 1 oz. bottle # 122 \$7.80

**Badger™ Airbrush DVD "The Art of Airbrushing Wildfowl Carvings"** (60 minutes)

Many useful steps and tips on using the 100SG. Includes basic maintenance procedures. #BD113 \$25.65

**Needle, fine** for series 200 airbrushes #50-0172 \$13.10



# Harder & Steenbeck Airbrushes

When we first encountered Harder & Steenbeck airbrushes we were blown away by their quality, innovation, attention to detail and user-friendliness. The Infinity is arguably the nicest airbrush on the market today. Harder & Steenbeck has been building airbrushes in Germany for over 50 years and have proven themselves among the best airbrushes made.

## Evolution Silverline

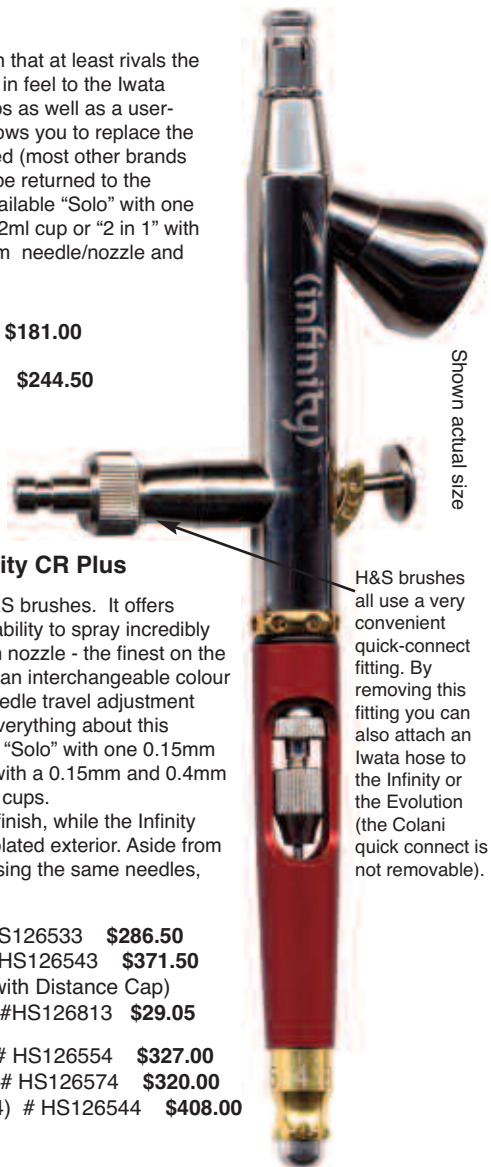
The Evolution is an excellent airbrush that at least rivals the quality of the Iwata HPB. It is similar in feel to the Iwata brush, but offers interchangeable cups as well as a user-friendly maintenance system that allows you to replace the needle packing yourself if needed (most other brands of airbrush need to be returned to the factory for this). Available "Solo" with one 0.2mm needle and 2ml cup or "2 in 1" with a 0.15mm and 0.4mm needle/nozzle and 2ml and 5ml cups.

Evolution "Solo" # HS126023 **\$181.00**

Evolution "2-in-1" # HS126103 **\$244.50**



Shown actual size



Shown actual size

## Infinity and Infinity CR Plus

The Infinity is the flagship of H&S brushes. It offers unrivaled smoothness and the ability to spray incredibly fine lines, thanks to the 0.15mm nozzle - the finest on the market. Other features include an interchangeable colour cup (clever!) and a quick-set needle travel adjustment with an instant on-off switch. Everything about this airbrush says quality! Available "Solo" with one 0.15mm needle and 2ml cup or "2 in 1" with a 0.15mm and 0.4mm needle/nozzle and 2ml and 5ml cups.

The Infinity has a nickel-plated finish, while the Infinity CR+ has a high-gloss chrome-plated exterior. Aside from the finish it's the same brush, using the same needles, nozzles, cups etc.

Infinity "Solo" .15mm" # HS126533 **\$286.50**

Infinity "2-in-1" (.15 & .4) # HS126543 **\$371.50**

("2-in-1" is supplied with Distance Cap)

Distance cap (Infinity only) #HS126813 **\$29.05**

Infinity CR+ "Solo" .15mm # HS126554 **\$327.00**

Infinity CR+ "Solo" .4mm # HS126574 **\$320.00**

Infinity CR+ "2-in-1" (.15 & .4) # HS126544 **\$408.00**

H&S brushes all use a very convenient quick-connect fitting. By removing this fitting you can also attach an Iwata hose to the Infinity or the Evolution (the Colani quick connect is not removable).

"Quick-fix" rear handle (similar to handle on Infinity) for Evolution # HS123663 **\$39.05**

Harder & Steenbeck airbrushes are backed by a 10-year limited warranty and they offer unrivaled customer service if needed.

# Harder & Steenbeck Airbrushes (cont.)

Manufacturer's Website: [www.germanairbrush.com](http://www.germanairbrush.com)

## Colani

What can we say? Look at this airbrush! Very comfortable and innovative. Supplied with a 0.4mm needle, nozzle and a 15ml cup, it is designed for less intricate work than the Infinity or Evolution. Ideal for general airbrush work. You can add a .2mm nozzle/needle and smaller cups if finer work is required. Adjusts for left or right-handed users. A truly delightful airbrush to hold and to use.

"Colani" # HS124003 **\$317.50**

Photos and descriptions of accessories are available at [razertip.com](http://razertip.com)

### Colani Parts & Accessories:

- Insert to hold Colani brush on modular holder  
# HS110251 **\$7.30**
- 50ml Plastic cup w/ lid for Colani # HS124410 **\$29.05**
- 0.2mm Nozzle/needle set  
# HS124643 **\$73.60**
- 0.2mm Needle  
# HS124700 **\$20.25**
- 0.4mm Needle  
# HS124710 **\$20.25**

Harder & Steenbeck airbrushes are backed by a 10-year limited warranty and they offer unrivalled customer service if needed.

## Harder & Steenbeck "Eurotec 10A" Compressor

Oil-less piston air compressor, powerful 1/8 hp motor, extra hose for enhanced moisture separation, no pulsation; moisture-filter also prevents pulsation, bleed valve air regulator to adjust air pressure, on/off switch, working pressure from 0 psi to 36 psi, high strength polyurethane air hose fits airbrush. Supplied with 10' braided hose. A beautiful, quiet compressor.  
# HS160050 **\$297.00**



# Airbrush Accessories (cont.)

## Harder & Steenbeck Replacement Parts (will fit either Infinity or Evolution):

<b>Needles:</b> 0.15mm # HS127920 <b>\$21.95</b>	0.2mm # HS123730 <b>\$20.25</b>	0.4mm # HS123740 <b>\$20.25</b>
<b>Nozzles:</b> 0.15mm # HS127912 <b>\$29.70</b>	0.2mm # HS123822 <b>\$27.00</b>	0.4mm # HS123832 <b>\$27.00</b>
<b>Nozzle/Needle Sets (with standard air cap):</b>		
0.15mm # HS127903 <b>\$76.55</b>	0.2mm # HS123703 <b>\$73.60</b>	0.4mm # HS123713 <b>\$73.60</b>
<b>Nozzle/Needle Sets (for Infinity Fineline with crown air cap; can also be used with Infinity/Evolution):</b>		
0.15mm # HS126823 <b>\$87.50</b>	0.4mm # HS126843 <b>\$87.50</b>	
<b>Needle Cap # HS123213 \$8.80</b>		
<b>Seal Kit set of seal washers for Infinity, Evolution, Focus and Grafo airbrushes #HS123910 \$16.20</b>		
<b>Front Air Cap Seal # HS123190 \$5.35</b>		<b>Teflon Needle Seal # HS123450 \$9.40</b>
<b>Front Nozzle Teflon Seal # HS1223180 \$9.40</b>		<b>Screwdriver for Needle Seal # HS123933 \$15.35</b>
<b>Seal Removal Tool # HS117233 \$5.85</b>		

## Harder & Steenbeck Parts and Accessories (will fit any Harder & Steenbeck Airbrush):

<b>QC Braided Hose 3M # HS125903 \$54.70</b>	<b>QC Braided Hose Adjustable 3M # HS125913 \$67.85</b>
<b>Modular Airbrush Holder w/air manifold # HS110193 \$58.05</b>	<b>Extension for HS110193 # HS110203 \$24.65</b>
<b>1-Meter Air Hose for modular holder # HS110273 \$34.30</b>	
<b>Airbrush Holder (tabletop) # HS126953 \$35.05</b>	<b>Airbrush Holder "Duo" # HS270200 \$48.60</b>
<b>Nozzle cleaning set # HS117400 \$33.50</b>	<b>Nozzle cleaning needle (included in set) # HS117403 \$29.05</b>
<b>Micro Cup # HS126334 \$13.20</b>	<b>2ml. Metal Cup # HS123323 \$18.60</b>
<b>5ml. Metal Cup # HS123333 \$18.60</b>	<b>50ml. Plastic Cup # HS124410 \$29.05</b>
<b>Lid for 2ml. Metal Cup # HS123563 \$9.60</b>	<b>Lid for 5ml. Metal Cup # HS123463 \$10.95</b>
<b>Fine-pressure control air valve # HS126353 \$56.85</b>	<b>Standard air valve # HS123353 \$31.00</b>



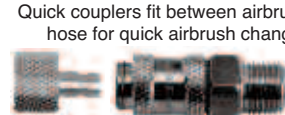
**8 oz. Iwata Airbrush Cleaner**  
Fast-acting, odourless, environmentally safe. Use with all airbrushes.  
# IW-6500-8 **\$7.45**



**Iwata Cleaning Station**  
Now you can clean your airbrush without any overspray with Iwata's portable cleaning station. Simply insert your airbrush into the top and spray directly into the jar. The built-in felt filter traps any spray inside the glass jar which can then be easily cleaned. Filter is also easily cleaned and can be re-used many times. Works with most airbrush makes and models. Includes jar, lid, 1 spare filter and airbrush support bracket as shown.  
# IW-NAC-201 **\$38.50**



**Iwata Pistol Grip Filter**  
Attaches directly to the airbrush. 5 micron filter element assures clean, dry air to your airbrush. Easy to check and clean without removing unit from the brush. Also acts as a comfortable handle to reduce muscle tension and improve control.  
# IW-FA450 **\$42.55**



Quick couplers fit between airbrush and hose for quick airbrush changes.

*To fit Iwata or Harder & Steenbeck:*  
Quick-connect set # IW-1160-3 **\$23.40**  
*Extra male end only (fits on airbrush):*  
For Iwata brushes: # IW-1160-4 **\$11.35**  
For H&S brushes: #HS104063 **\$10.80**  
For Badger brushes: #HS104083 **\$10.80**  
For Paasche brushes: #HS104323 **\$10.80**  
*Female Q-C fitting only fits on hose:*  
For Iwata hoses: # HS104403 **\$18.90**  
For Badger hoses: # HS104473 **\$18.90**

DVD "Airbrush Workshop" contains useful general airbrush information as well as specific information on Harder & Steenbeck airbrushes. 90 minutes. A real bargain! # HS-DVD **\$6.75**



DVD "Airbrush Techniques - Start to Finish" covers all aspects of airbrushing. Ideal for beginners or as a refresher for those with some experience. # BD103 **\$24.30**



# Painting and Misc. Supplies

## ***Need Help with Colour?***

### **Keith Mueller Colour Harmony and Dynamic Mixing Guide**

The best tool for understanding colour and colour harmony, along with understanding how pigments work together to create colour. Complete with manual. 18"x24" # KM100 **\$59.95**



## **Vermiculating Pen**

The manufacturer calls these "paint pens", but bird carvers often refer to them as Vermiculating pens. They hold thinned-down acrylic paints and can be used for controlled painting of fine lines, like the vermiculation on many ducks. Because you can mix whatever colour of paint you want, this pen gives you superb versatility in colour-matching and pigment density. Simply place a drop of diluted paint in the cup and start drawing. Works great with airbrush paints, too. These solid brass pens will last many years.



Shown actual size

### **Vermiculating Pen**

(Supplied with cleaning tool as shown)  
# LC92 **\$24.26**

## **Suction Pick-up Tool**

### **Model Pal™ Suction Pickup Tool**

Simplify handling of glass eyes with this ingenious little device. Simply squeeze the bulb, touch the silicone tip to the front of an eye and release the bulb. Vacuum will hold the eye while you position it. To release, simply squeeze the bulb again. Works on all eyes from 3mm up. Supplied with 3 different tips. # 20520 **\$21.25**



# Brushes

All Brushes Shown Actual Size

We carry select brushes by Silver Brush, Loew Cornell and Robert Simmons, offering a full selection of brushes from synthetic to the finest quality Kolinsky sable. Every one of our brushes comes with our money-back guaranty (as does everything in this catalogue). The brushes we carry have all been selected because of their suitability for wildlife painting, especially on wood. They represent good value and will have a long useful life if cared for properly. Please be sure to contact us if you have questions about which brush would best suit your needs.

**Ultra Mini™** By Silver Brush. Golden Taklon hair and Comfort Grip™ handles give superb control with most paints. Excellent for miniature carvings and for ultra-fine detail on any surface. One of our most popular series of brushes.

All brushes are shown actual size. Overall length approx. 6". **\$7.88 each**



**Loew Cornell Brushes** These brushes have become our most popular brushes for general and fine detail work. They offer excellent value per dollar. The 7020 Round Series take and hold a point better than any other brush in their price range. The Oval mop is a superb base-coating and general brush for larger work. We're sure you will love these brushes.



# Brushes

All Brushes Shown Actual Size

**Ruby Satin™** By Silver Brush. Revolutionary synthetic with the look and feel of interlocked bristle - even more durable than natural hair! Springier, livelier bristle than other brushes. These brushes excel at detail and control on rougher surfaces (like wood), with acrylic or oil paints. They hold paint well, and release it well, too. Highly recommended.

**Round (Series 2500)** For general detail.



#2500S2/0 Size 2/0 Round **\$7.20**



#2500S1 Size 1 Round **\$7.61**



#2500S2 Size 2 Round **\$7.79**



#2500S4 Size 4 Round **\$8.96**



#2500S6 Size 6 Round **\$10.85**

**Monogram Liner (Series 2522)** Holds paint well and takes a nice point. A real pleasure to use!



#2522S0 Size 0 Monogram **\$7.29**



#2522S1 Size 1 Monogram **\$7.56**



#2522S2 Size 2 Monogram **\$7.70**



#2522S4 Size 4 Monogram **\$8.10**

**Bright (Series 2502)** For basecoating and general painting (washes or drybrushing).



#2502S2 Size 2 Bright **\$8.24**



#2502S4 Size 4 Bright **\$9.00**



#2502S6 Size 6 Bright **\$10.31**

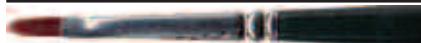


#2502S8 Size 8 Bright **\$11.21**



#2502S10 Size 10 Bright **\$12.65**

**Filbert (Series 2503)** For basecoating and general painting (washes or drybrushing).



#2503S1 Size 1 Filbert **\$8.24**



#2503S2 Size 2 Filbert **\$8.51**



#2503S4 Size 4 Filbert **\$9.45**



#2503S6 Size 6 Filbert **\$10.58**



#2503S8 Size 8 Filbert **\$11.75**

**Filbert Comb (Series 2528)** "Comb" bristles give a loose, streaked effect. Very effective and efficient. Great for breast and under-belly feathers, particularly on smooth birds.



#2528S1/8 1/8" Filbert Comb **\$12.15**



#2528S1/4 1/4" Filbert Comb **\$13.68**



#2528S3/8 3/8" Filbert Comb **\$16.11**



#2528S1/2 1/2" Filbert Comb **\$18.54**

## Brush Care

For longest brush life and good performance it's essential to clean your brushes properly. Any good brush soap (like the Jo Sonja's soap on page 70) will do the trick if used properly. It will work on both oil and water-based paints. Some people think that acrylic paints, because they are water-based, need only be cleaned with water. In fact acrylic paints are the most difficult paints to clean properly from brushes because they begin drying in the bristles and once they start to set up they are no longer water-soluble and will ruin a brush after only a few uses.

# Brushes

All Brushes Shown Actual Size

**Renaissance Fine Red Sable** By Silver Brush. Finest pure red sable from selected marten tails create a range of superb sable brushes with a natural spring and generous paint holding capacity. Renaissance brushes come to a fine point or sharp chisel edge that resists splitting. The professionals' choice in a wide variety of sizes and shapes for oils, acrylics or watercolours.

**Round (Series 7100)** Good for general detail work. Provides excellent control for vermiculation or other fine detail.



#7100S3/0 Size 3/0 Round **\$7.29**



#7100S2 Size 2 Round **\$9.72**



#7100S4 Size 4 Round **\$15.21**



#7100S6 Size 6 Round **\$20.61**

## Basecoating Brushes

Silver White™ white Taklon synthetic brushes are still some of the best brushes for basecoating bird carvings.



#1502S8 Size 8 Bright **\$7.18**



#1502S10 Size 10 Bright **\$7.79**



#1503S8 Size 8 Filbert **\$7.20**

## Sealing Brush

Sterling Studio Taklon brush is ideal for use with KT Super Sealer (page 82) We recommend dedicating this brush solely to sealing.



#6011S1/2 1/2" Stroke **\$3.65**

## Filbert or Cats Tongue (Series 7110)

The best brushes made for "Featherstrokes" or "Flicking" techniques, where complete curved feather shapes can be painted quickly and efficiently. The larger sizes (#8 and up) are best suited for this technique. Can also be used for basecoating and general painting (washes or drybrushing).



#7110S4 Size 4 Filbert **\$12.15**



#7110S6 Size 6 Filbert **\$16.47**



#7110S8 Size 8 Filbert **\$23.72**



#7110S10 Size 10 Filbert **\$29.95**



#7110L18 Size 18 Filbert **\$59.54**



#7110L20 Size 20 Filbert **\$70.20**

## Robert Simmons Liner (Series E51)

A super little fine detail brush at a very reasonable price.



#E51S10/0 Size 10/0 Round **\$7.25**



# Brushes

All Brushes Shown Actual Size

**Scharff Series 3000 Kolinsky Sable.** Cam started using Scharff Kolinsky brushes over 8 years ago. They are without a doubt the finest detail brush he has ever used. It's difficult to accurately describe them without sounding a bit like snake-oil salesmen. Scharff 3000 brushes are used by many of the world's best bird carvers, and once you have used one, you will appreciate why. They take and hold a point better than any other brush, and they easily release paint on contact. The control they afford is unmatched, allowing you to paint a generous number of consistent, super-fine lines before having to reload.

If you are experiencing limitations with your current brushes, we highly recommend that you try one or two of these amazing brushes (size 2 or 3 are most useful to start with). Yes - they are expensive, but well worth every penny.

Like every brush, with use they will eventually wear, diminishing their extra-fine point holding ability. When this happens they are still a superb general purpose brush with great control for coarser detail and precision blending, or for applying gloss varnish to feather shafts.

	#3000S000 Size 3/0	\$23.36
	#3000S00 Size 2/0	\$24.08
	#3000S0 Size 0	\$25.79
	#3000S1 Size 1	\$30.87
	#3000S2 Size 2	\$43.02
	#3000S3 Size 3	\$50.81
	#3000S4 Size 4	\$59.31
	#3000S5 Size 5	\$75.60
	#3000S6 Size 6	\$97.47
	#3000S7 Size 7	\$135.14
	#3000S8 Size 8	\$162.59

# Sealer

## KT Super Sealer™



This revolutionary sealer may be just what you've been looking for. Alcohol based KT Super Sealer doesn't give off the strong fumes of other sealers. It brushes on easily and seals well with no filling in of fine detail. Cam switched from Delft to KT many years ago and he is still amazed at how well it works. Available in natural colour (clear) and white. The white allows you to seal and basecoat in one step - eliminating gesso which can fill up fine detail. The white KT Sealer is unmatched for sealing metal parts like habitat components (leaves) and for sealing pewter feet before painting them. Bonds to most metals very well and provides the proper "tooth" for your paint to adhere to. Sold in 8 oz. bottles.

**Clear # KT8C \$15.95**

**White # KT8W \$15.95**

*Here's a tip on using KT Sealer: Set aside one brush just for sealing (like our sealing brush on [page 80](#)). Shake the KT's really well, then pour some into a small container. Dip the brush in and go about spreading sealer over your carving. Work down the runs with your brush, then let the carving dry (it doesn't take long). Repeat for any subsequent coats. To clean your brush, simply wipe it dry on a piece of paper towel, then set it aside. Next time you go to use it, just dip it into your KT's and it will be all ready to use! If you will be using both clear and white KT Sealer we recommend that you use separate brushes for each. Should you need to clean KT Sealer from a brush or anything else you can use alcohol as a solvent.*

Note: KT Sealer promotes itself as a sealer that allows you to burn in your detail after sealing. While I do know a few carvers who use it this way, I have found that most who try burning through KT sealer are unhappy with the results. I also have some concerns over the wisdom/safety of burning through any synthetic product. For these reasons, I do not recommend burning through KT Sealer. That being said, it's still the best sealer I have ever used when applied as a final sealing coat.

## Cam Merkle Studynotes

As a result of many requests, I have made available illustrated notes from most of my carving classes. Many people have found these notes useful for reminding them of steps used in previous carvings, and others have used them to tackle a carving they might not have otherwise done. As with the patterns and blanks, new species are added from time to time, so be sure to ask about anything not listed here. Notes include information on reference line layout, blocking out the cuts, rounding, texturing and painting, as well as a pattern. Over the years my studynotes have become more and more sophisticated. The Great Horned Owl and the Costa's Hummingbird are printed in full colour 8½ x11"books. They contain many photos to guide you through every step of the project. All studynotes also include a pattern. See [pages 56 & 57](#) for a listing of available blanks.

Standard Studynotes (no colour)		
Chickadee, Black-capped	NOTECHICK	\$5.00
Heron, Great Blue	NOTEGBH	\$5.00
Hummingbird, Ruby-throat (male) with Columbine Flower	NOTEHUMCL	\$5.00
Hummingbird, Ruby-throat (male) perched	NOTEHUM	\$5.00
Loon, Common	NOTELN	\$5.00
Maggie, Black-billed	NOTEMAG	\$5.00
Mallard (drake)	NOTEMAL	\$5.00
Wood Duck (drake)	NOTEWD	\$5.00

Studynotes with full-colour painting notes		
Blackbird, Red-winged (male)	NOTERWB	\$7.00
Bluebird, Mountain (male)	NOTEMBB	\$7.00
Bluejay	NOTEBJ	\$7.00
Eagle, Bald (on rock)	NOTEBE	\$7.00
Jay, Steller's	NOTESJ	\$7.00
Kingfisher, Belted	NOTEKFISH	\$7.00
Owl, Saw-whet	NOTESAW	\$7.00
Sandpiper, Least	NOTEELST	\$7.00

Full-colour Studynote Books		
Hummingbird, Costa's (male)	NOTECOSTAS	\$10.00
Owl, Great Horned	NOTEHOWL	\$10.00

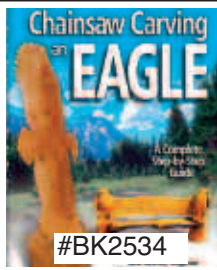
# Books - New Titles



#BK4826

## Woodburning Project & Pattern Treasury

by Deborah Pompano  
Paperback 176 pgs. **\$29.95**  
A true treasury of techniques, tools, patterns and inspiration. Great first pyrography book or addition to your resource library.



#BK2534

## Chainsaw Carving an Eagle

by D. Roghair, and J. Doere  
Paperback 80 pgs. **\$20.35**  
Carve an eagle from a tree trunk or log. Covers all aspects of chainsaw carving. 4 projects: Eagle Head Plaque, Standing Eagle with Fish, Eagle Soaring, Eagle Bench.



#BK8510

## Carving Bears

by Desiree Hajney  
Paperback 48 pgs. **\$16.99**  
Patterns, reference photos and carving tips for Black, Grizzly and Polar Bears by one of the best-known animal carvers in the world.



#BK8886

## Big Book of Pyrography Projects

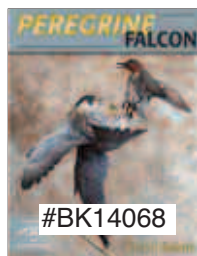
from Woodcarving Illustrated  
Paperback 128 pgs. **\$23.99**  
Expert techniques and 23 all-time favorite projects from world-renowned artists. Covers multiple materials, tool selection and care as well as an inspiring gallery.



#BK8411

## Complete Guide to Band Saws

by Mark Duginske  
Paperback 200 pgs. **\$23.95**  
Essential guide to everything needed to know in order to purchase, setup, use, and maintain a band saw.



#BK14068

## Peregrine Falcon

by Floyd Scholz  
HC 160 pages **\$35.95**  
Start-to-finish for carving, painting and assembling this amazing, dynamic and complex sculpture of a Peregrine attacking a Green-winged Teal. An amazing book!



#BK1929

## Duck Decoys: Classic Carving Projects Made Easy

by Tom Matus  
Paperback 80 pgs. **\$17.95**  
Complete, simple instruction to carve a male Mallard decoy. Perfect for anyone wanting to learn to carve a working decoy.



#BK845

## Wings on the Water

by S. Maslowski  
Hardcover 240 pgs. **\$47.95**  
The Great Gallery of Ducks, Geese and Loons. Over 24 species of waterfowl shown in breathtaking photographs. Perfect for carving reference or bird enthusiasts.



#BK4741

## Caricature Carving

(Best of Woodcarving Illustrated)  
Paperback 144 pgs. **\$23.95**  
30 of the best caricature carving projects from WCI magazine. Projects and gallery will appeal to carvers of all skill levels.

# Books - Recent Titles

**Carving Patterns & Photos by Cam Merkle.** Cam's first two books covering a wide variety of waterfowl, shorebirds and songbirds. Each species covered includes one or more detailed patterns, high-quality reference photos that you'll find invaluable when carving and painting, species-specific carving tips to help you avoid common mistakes, as well as a bit of interesting trivia for each species.



#BK08CM

## Volume 1 - Waterfowl & Shorebirds

19 different patterns for 16 species of waterfowl and shorebirds including Avocet, Blue-winged and Green-winged Teal, Bufflehead, Canada Goose, Common Loon, Canvasback, Great-blue Heron, Labrador Duck, Least Sandpiper, Mallard, Pintail, Redhead, Ruddy Duck, Willet, Wood Duck.

36 pages, 54 colour photos. 11x17" Coil-bound. **\$24.95**

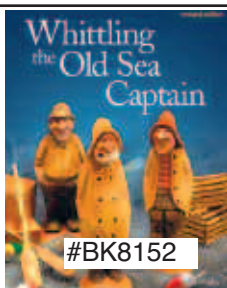


#BK15CM

## Volume 2 - Songbirds

24 different patterns for 20 songbirds including Red-winged and Yellow-headed Blackbirds, Mountain Bluebird, Gray Catbird, Black-capped and Chestnut-backed Chickadees, Brown-headed Cowbird, Northern Flicker (red and yellow-shafted), Rose-breasted and Blue Grosbeaks, Gray & Steller's Jays, Costa's & Ruby-throated Hummingbirds, Junco, Robin, Bohemian & Cedar Waxwings, Clay-coloured Sparrow, Yellow-bellied Sapsucker.

44 pages, 163 colour photos. 11x17" Coil-bound. **\$24.95**



#BK8152

**Whittling the Old Sea Captain**  
Revised edition by Mike Shipley  
Paperback 40 pgs. **\$15.60**

More than 100 step-by-step photos guiding you in carving, painting and staining the salty Old Sea Captain and his crew.



#BK8022

**Relief Carving Wood Spirits**  
(Revised Edition) by Lora S. Irish  
Paperback 144 pages **\$23.95**

Everything from preparing wood to finishing - no technique is left out. Includes tips for realistic & detailed facial features like windswept hair, eyelids, beards, and moustaches.



#BK8077

**Carving Fantasy & Legend Figures in Wood** (Revised)  
by Shawn Cipa

Paperback 120 pages **\$24.00**

Expert guidance for carving and painting great creatures of legend, including wizards, dragons, faeries, mermaids and more.



#BK7360

**Relief Carving Workshop**  
by Laura S. Irish  
Paperback 128 pages **\$24.00**

Everything you need to know for relief carving animals, landscapes, flowers, borders, Celtic knots and more. Includes 10 original new project patterns.



#BK7872

**Carving The Native American**  
by John Burke  
Paperback 104 pages **\$24.00**

Takes you step-by-step to create an expressive Native American bust, from a clay model to staining and finishing. For carvers of any experience level.



#BK8084

**Whittling the Country Bear & His Friends**  
by Mike Shipley

Paperback 64 pages **\$18.00**

Carve and paint 12 whimsical woodland creatures including bears, moose, rabbits and beavers with step-by-step instructions and easy-to-use patterns.

Revised & updated!

# Books - Recent Titles (cont.)



#BK3997

## 101 Artistic Relief Patterns for Woodcarvers, Woodburners & Crafters

by Lora S. Irish  
Paperback 122 pgs. **\$23.95**  
Line-drawn and shaded versions of each pattern for dozens of potential uses. As with all of Lora's books, this one is superb.



#BK5205

## Big Book of Whittle Fun

by Chris Lubkemann  
Paperback 128 pgs. **\$15.55**

This 6x9" book is filled with great little projects and games that are enjoyable to make and fun to use. For carvers of any skill level.



#BK43605

## Carving the Screech Owl

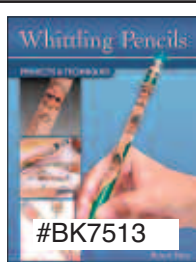
by Jeffrey A. Moore  
Paperback 96 pgs. **\$24.00**  
Starting with a rough blank you'll learn texturing, painting and making habitat and feet. Includes pattern and photos of reference as well as how-to information.



#BK1719

## Carving Folk Art Figures

by Shawn Cipa  
Paperback 80 pgs. **\$17.95**  
Patterns & Instructions for Angels, Moons, Santas, Cats, Snowmen & Wizards. 160 full-colour step-by-step photos cover all aspects of these delightful folk-art carvings.

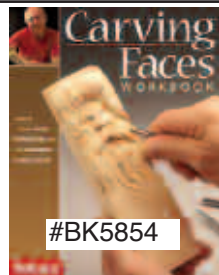


#BK7513

## Whittling Pencils

by Randy True  
Booklet 32 pages **\$15.60**

Make ordinary pencils come to life with Santa pencils, Wood Spirits, Leprechauns and even Uncle Sam. Includes dozens of step-by-step illustrations and patterns.



#BK5854

## Carving Faces Workbook

by Harold Enlow  
Paperback 144 pgs. **\$23.95**  
Learn to carve faces with life and expression with the legendary Harold Enlow. Learn about different types of faces as well as eyes, lips, nose, hair and ears.



#BK8008

## Woodcarving

Techniques & Projects for the First-Time Carver by Everett Ellenwood  
Paperback 136 pgs. **\$18.00**

Learn to transfer patterns, use and sharpen tools, work safely, pick the right wood. Easy projects included.

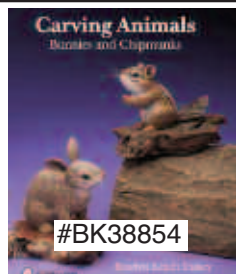


#BK4420

## Intarsia: Woodworking for Beginners

by Kathy Wise  
Paperback 128 pgs. **\$23.95**

Covers all aspects of intarsia with more than 40 lessons, 20 patterns, reference photos, materials lists and more. Useful for all skill levels.



#BK38854

## Carving Animals:

**Bunnies and Chipmunks**  
by Rosalyn Daisey  
Hard Cover 256 pgs. **\$54.00**  
2 Rabbit & 2 Chipmunk projects. 739 colour photos for superb instruction for carvers of any level.

# Books - Recent Titles (cont.)

 <p><b>Carving Santas from Around the World</b> by Cyndi Joslyn Paperback 96 pgs. # BK1872 \$17.95</p>	 <p><b>Carving Wooden Finger Puppets and Cane Toppers</b> by Ross Oar # BK3898 \$17.95</p>	 <p><b>Stickmaking A Complete Course</b> A. Jones &amp; C. George Paperback 176 pgs. # BK3683 \$27.55</p>
 <p><b>Lettering &amp; Sign Carving Workbook</b> by Betty Padden Paperback 160 pgs. # BK4529 \$23.95</p>	 <p><b>Woodcarving Course &amp; Reference Manual</b> by Chris Pye Paperback 160 pgs. # BK4567 \$23.95</p>	 <p><b>Guide to Sharpening, Tools &amp; Setting Up Shop</b> Paperback 144 pgs. # BK4758 \$23.95</p>
 <p><b>Woodcarving Magic</b> by Bjarne Jespersen Paperback 128 pgs. # BK5236 \$23.95</p>	 <p><b>Relief Carving Projects and Techniques</b> Paperback 144 pgs. # BK5588 \$23.95</p>	 <p><b>Handcarved Christmas Best of WCI</b> Paperback 144 pgs. # BK6059 \$23.95</p>
 <p><b>Gunstock Carving</b> by Bill Janney Paperback 96 pgs. # BK166X \$23.95</p>	 <p><b>Inspirational Relief Carving</b> by Bill Judt Paperback 124 pgs. # BK2054 \$23.95</p>	 <p><b>Easy Woodcarving</b> by Cyndi Joslyn Paperback 152 pgs. # BK2887 \$17.95</p>
 <p><b>Carving the Head in the Classic European Tradition</b> M. Geisler-Moroder # BK3026 \$17.95</p>	 <p><b>Hand Carving Snowmen &amp; Santas</b> by Mike Shipley Paperback 64 pgs. # BK1295 \$17.95</p>	 <p><b>Whittling Little Folk</b> by Harley Refsal Paperback 128 pgs. # BK5182 \$20.35</p>
 <p><b>Woodcarving the Nativity</b> by Shawn Cipa Paperback 88 pgs. # BK202X \$17.95</p>	 <p><b>Carving Horse Portraits in Relief</b> by Kurt Koch Paperback 72 pgs. # BK1805 \$17.95</p>	 <p><b>Halloween Woodcarving</b> by Cyndi Joslyn Paperback 128 pgs. # BK2891 \$20.35</p>
 <p><b>Carving Wooden Santas, Elves &amp; Gnomes</b> by Ross Oar # BK3836 \$20.35</p>	 <p><b>Whittling Country Folk (Revised)</b> by Mike Shipley Paperback 88 pgs. # BK8398 \$17.95</p>	 <p><b>Celtic Carved Lovespoons</b> by S.Littley &amp; C.Griffin Paperback 152 pgs. # BK2097 \$21.55</p>
 <p><b>Fine Art of Carving Lovespoons</b> by David Western Paperback 200 pgs. # BK3744 \$29.95</p>	 <p><b>Sculpting the Female Face &amp; Figure in Wood</b> by Ian Norbury # BK7421 \$29.95</p>	 <p><b>Complete Beginner's Woodcarving Workbook</b> by Mary Duke Guldán # BK7452 \$15.60</p>
 <p><b>Carving Wooden Critters</b> by Diane Harto-Ernst Paperback 48 pgs. # BK7711 \$9.60</p>	 <p><b>Building Wooden Snowshoes and Snowshoe Furniture</b> by Gil Gilpatrick # BK4857 \$23.95</p>	 <p><b>Make Your Own Walking Sticks</b> by Charles R. Self Paperback 152 pgs. # BK3201 \$23.95</p>
 <p><b>Carving Gargoyles, Grotesques &amp; Other Creatures of Myth</b> by Shawn Cipa # BK3294 \$23.95</p>	 <p><b>Whittling Vol. 2</b> by WCI Magazine 112 pgs. # BKSIPWH2 \$12.00</p>	 <p><b>Old Time Whittling</b> by Keith Randich Booklet 32 pgs. # BK7742 \$12.00</p>

# Books - Bird Carving

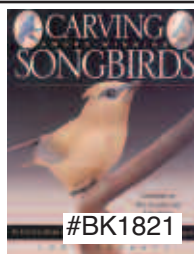


#BK2984

## Antique Style Duck Decoys

by Tom Matus

A complete guide to history-rich decoys. Lots of how-to info and a photo gallery; for carvers or collectors. 138 pgs. SC 8.5x11" **\$23.95**



#BK1821

## Carving Award-Winning Songbirds

by L. Corbett

Carving, sculpting and painting techniques. A superb book; very highly recommended. 248 pgs. SC 8.5x11" **\$35.95**

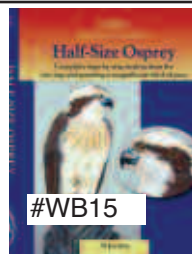


#BK30948

## Waterfowl Carving

with J.D. Sprankle

Covers carving and painting of 25 species. 256 pgs. 424 b/w photos, 16 colour pages. SC 8.5x11" **\$35.95**



#WB15

## Half-Size Osprey

by Al Jordan

From Wildfowl Carving's Workbench Projects series. Includes all steps to complete this magnificent bird of prey. 80 pgs. Coil-bound 8.5x11" **\$29.95**



#BK1929

## Duck Decoys:

Classic Carving Projects Made Easy

by Tom Matus

Carve a male Mallard decoy. Perfect for anyone wanting to learn to carve a working decoy. 80 pgs. SC 8.5x11" **\$17.95**

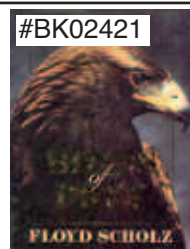


#BK02324

## The Golden Eagle

by Floyd Scholz.

Look over Floyd's shoulder as he works through this most ambitious carving of a life-size Golden Eagle in flight. Floyd shares his thoughts, sketches and how-to information. 96 pages. HC 11x8.5" **\$41.95**



#BK02421

## Birds of Prey

by Floyd Scholz

17 species of hawks, falcons, eagles & osprey. Includes a section on carving and painting a Kestrel. 500 photos, 35 drawings. 318 pages. HC 9x12" **\$71.95**



#BK10211

## Owls

by Floyd Scholz

16 owls: Horned, Snowy, Screech, Long-Eared, Barn, Elf, Spotted, Gray, Burrowing, Pygmy, Saw-whet, Boreal, Barred, Flamulated, Hawk-owl, & Short-eared. 512 pgs. HC 9x12" **\$96.00**



#BK2844

## The Illustrated Bald Eagle

by Denny Rogers

Covers virtually every aspect of eagle anatomy. Useful for all types of artwork. Includes colour and painting information. 96 pgs. SC 9x12" **\$29.95**

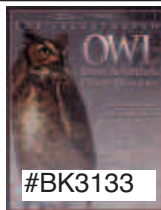


#BK2852

## Illustrated Owl: Screech and Snowy

by Denny Rogers

Ultimate reference for both owls. 150 drawings and paint charts included. 248 pages. SC 8.5x11" **\$35.95**



#BK3133

## Illustrated Owl: Barn, Barred and Great Horned

by Denny Rogers

Ultimate reference for 3 owls. 200 drawings and paint charts included. 248 pages. SC 8.5x11" **\$35.95**



#BK3102

## Illustrated Birds of Prey

by Denny Rogers

Red-tailed Hawk, Kestrel and Peregrine Falcon are covered in over 200 pages of superb illustrations. Includes painting reference. 238 pages. SC 8.5x11" **\$41.95**

# Books - Bird Carving (cont.)



#BK0574

**Songbird Carving Vol. 1**  
by Rosalyn Daisey  
Rosalyn Daisey's books are among the best bird carving books available. Vol. 1 covers Titmouse, Goldfinch, Wren and Catbird. 256 pages.  
HC 8.5x11" \$54.00



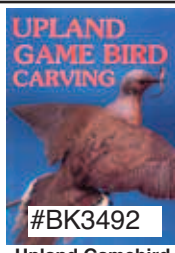
#BK1198

**Songbird Carving Vol. 2**  
by Rosalyn Daisey  
More great instruction from Rosalyn Daisey. Vol. 2 covers Cardinal, Sparrow, Robin and Blue Jay. 272 pages.  
HC 8.5x11" \$54.00



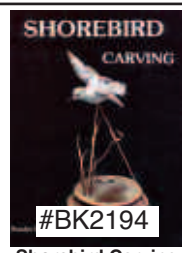
#BK5908

**Baby Bird and Chick Carving**  
by Rosalyn Daisey  
Carve a life-like baby Chickadee, Bluebird, Quail, Killdeer or Wood Duck duckling. 208 pgs.  
HC 8.5x11" \$59.95



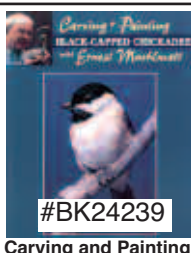
#BK3492

**Upland Gamebird Carving**  
by Rosalyn Daisey  
The best book available on game bird carving. Covers Doves (flying and perched) as well as Woodcock and Bob-white quail. 240 pgs.  
HC 8.5x11" \$59.95



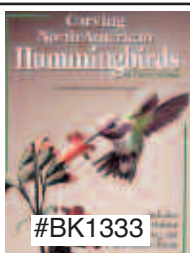
#BK2194

**Shorebird Carving**  
by Rosalyn Daisey  
Another superb book by Rosalyn Daisey. Covers Semi-palmated Plover, Sanderling (flying), Greater Yellowlegs and Dunlin. 256 pgs.  
HC 8.5x11" \$59.95



#BK24239

**Carving and Painting a Black-Capped Chickadee**  
with Ernie Muehlmat  
Carve a chickadee and a branch from one piece of wood. Full instructions from start to finish.  
92 pages.  
SC 7x9" \$23.95



#BK1333

**Carving North American Hummingbirds**  
by C. Solomon & D. Hamilton  
Covers Costa's, Anna's, Black-chin & Rufous as well as an extensive habitat section. 64 pages.  
SC 8.5x11" \$23.95



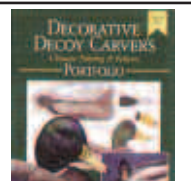
#BK36060

**World of Hummingbirds**  
by Erik Hanson  
Stunning photos and natural history on 12 North American species. Includes information on attracting hummingbirds. 60 colour photos. 160 pgs. SC 6x9" \$26.35



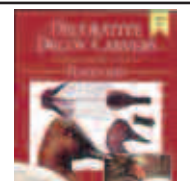
#BK3362

**Decoys: Sixty Living and Outstanding North American Carvers**  
by Loy S. Harrell Jr.  
Decoys by 60 of the best in the field. All species are represented, but each artist has also carved a drake Wood Duck so you can compare styles. 248 pages.  
HC 11x8.5" \$54.00



#BK216X

**Decorative Decoy Carver's Portfolio Vol. 1 - Dabbling Ducks**  
by Bruce Burke  
The ultimate pattern, photo and painting reference w/ 12 species of dabbling ducks, both hen and drake. 154 pgs.  
HC 8.5x11" \$41.95



#BK2356

**Decorative Decoy Carver's Portfolio Vol. 2 - Diving Ducks**  
by Bruce Burke  
The ultimate reference for 12 species of diving ducks, both hen and drake. 160 pgs.  
HC 8.5x11" \$41.95



#BKLOON

**Loon Carving Patterns & Techniques**  
by Jeffrey Whiting  
Covers carving, detailing and painting. Life-size and 1/2 size patterns cover swimming, standing, flying, and stretching. The best loon reference! SC 18 pgs. 13x19" \$34.75



# Books - Bird Carving and Reference



#BK26193

## Shorebirds - Beautiful Beachcombers

by A. Morris

Beautiful photographs of most of our shorebirds. Descriptions of breeding, non-breeding and juvenile plumages included. 160 pgs. SC 6x9" **\$23.95**

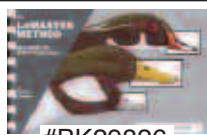


#BK1325

## Wading and Shorebirds

by Roger S. Everett

An excellent photographic reference for wading and shorebird carvers and bird watchers. SC 9x6" 48 pgs. **\$11.95**



#BK29826

## Waterfowl Identification - the LeMaster Method

by R. LeMaster

Handy little pocket guide will help you learn to quickly and accurately identify all species of North American ducks in various plumages. 76 pages. Coil-bound 7x4.5" **\$11.95**



#BK33441

## Guide to Ducks and Geese

by C. Hagner

Large colourful photos of almost every waterfowl species in North America. Great reference and an interesting read. 108 pgs. SC 6x9" **\$26.35**



#BKGOD4

## Championship Waterfowl Patterns Vol. 4

by Pat Godin

36 high-quality pattern designs from Pat's 12 years of entries in World Shootin' Rig competition. Includes instructional material for this style of decoy. Covers hens and drakes of Pintail, Mallard, Black Duck, American and Eurasian Wigeon, Canvasback, Common & Barrow's Goldeneye, Long-tailed Duck, Greater Bluebill, White-winged Scoter and Red-breasted Merganser. 50 pgs. SC 20x14" **\$58.80**

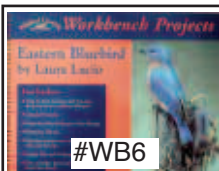


#WB2

## Contemporary Gunning Decoys

by Michael Harde

One of the few books covering the making of gunning decoys. Techniques for 3 different birds, covering diverse approaches to each project. 44 pages. Coil-bound 12x15" **\$29.95**

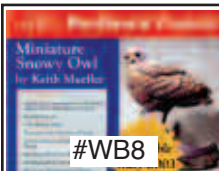


#WB6

## Eastern Bluebird

by Laura Lucio

Step-by-step. Includes habitat construction, highly detailed patterns, paint schedules, feet and leg construction, reference photos and shop safety. 44 pages. Coil-bound 12x15" **\$35.95**



#WB8

## Miniature Snowy Owl

by Keith Mueller

Carving, texturing, and painting a Snowy Owl. Described as the most comprehensive Workbench Project to date. 12x15" 48 pgs. Coil-bound **\$41.95**

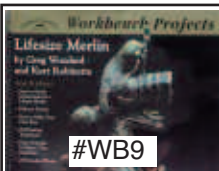


#WB10

## American Goldfinch

by Victor Paroyan

More than 200 photos teach from rough-out to painting. Also carving a daisy and bud. Very detailed and thorough explanations. 38 pages. Coil-bound 12x15" **\$41.95**



#WB9

## Lifesize Merlin

by Greg Woodard

Step-by-step details on creating this spectacular preening Merlin from a single block of wood. Also info on making your own eyes and oil painting techniques. 40 pgs. Coil-bound 12x15" **\$41.95**



#WB14

## Green-Winged Teal Pair

by Glen McMurdo

From Wildfowl Carving's Workbench Projects series. Includes 340 photos, carving, texturing and painting hen and drake. 80 pgs. Coil-bound 8.5x11" **\$29.95**

# Books - Bird Carving and Reference



**Carving Pattern Book**  
by  
Prairie Canada Carvers

The Prairie Canada Carving club from Winnipeg has been actively promoting carving for over 25 years. In celebration of the 25th anniversary of their show they have published this pattern book with over 30 original patterns by award-winning carvers. The patterns cover a wide range of subjects from birds and animals to chip carving, relief carving and intarsia. There's also lots of "how-to" information and tips - even plans for a nifty center-line marking tool. This is a one-of-a-kind book that's sure to have something for everyone. 54 pages. Coil-bound 17x11" **\$25.00**



**Chainsaw Carving  
an Eagle**

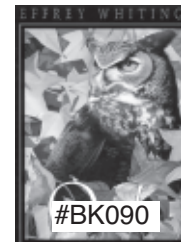
by J. Doren & D. Roghair  
Complete step-by-step guide to 4 different projects: Eagle head, soaring Eagle, Eagle with fish, and an Eagle bench. 80 pages. SC 8.5x11" **\$16.95**



#BK32130

**Wild Guide - Owls**  
by C. Berger

Very comprehensive book on most owl species - a must have for serious owl carvers. 130 pages. SC 6x9" **\$23.95**



#BK090

**Owls of North America**  
by Jeffrey Whiting  
Covers 19 species. Includes pattern and painting reference along with natural history info and a gallery of owl art by many artists. 152 pages. HC 10x12" **\$47.95**



#BK32821

**Small Mountain Owls**  
by Scott Rashid  
Great information. 160 photos of Flammulated, Northern Pygmy, Northern Saw-whet, and Boreal Owls. 160 pages. SC 8.5x11" **\$39.95**



#BK43605

**Carving the Screech Owl**  
by Jeffrey A. Moore  
Starting with a rough blank you'll learn texturing, painting and making habitat and feet. Includes pattern and reference photos. 96 pgs. SC **\$24.00**

## Wild Bird Guides

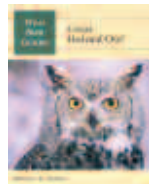
Each of these books provides excellent, detailed reference on a single bird species. Each one is filled with photographs from all possible angles, as well as lots of other useful information about the featured bird. They are super for drawing your own patterns or for figuring out that tricky part of the bird that you can't find information on elsewhere. All are 7"x9", Soft-cover, between 85 and 110 pages. **\$23.95 ea.**



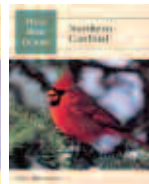
**Black-capped Chickadee**  
#BK2686X



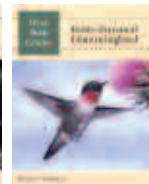
**Downy Woodpecker**  
#BK27246



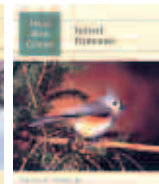
**Great Horned Owl**  
#BK26894



**Northern Cardinal**  
#BK31006



**Ruby-throated Hummingbird**  
#BK26886



**Tufted Titmouse**  
#BK29672

# Reference Material - Photo Booklets

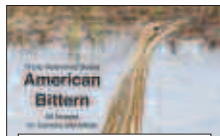
We are very proud to offer you reference photo booklets: some by photographer Dean Davenport (DD) and others by Cam Merkle (CM). Each booklet contains excellent quality photos taken from various angles, with the carver and artist in mind. Most are 8.5"x5.5" booklets (8.5"x11" booklets are indicated) containing great reference photos that you will find most useful for your carving and painting projects. More species are being added - check our website for updates.

5.5"x8.5" Booklets are **\$9.95** ea.

8.5"x11" Booklets are **\$14.95** ea.



Avocet, American  
36 Photos CM  
# PBAA01



Bittern, American  
66 Photos CM  
8.5"x11" Booklet  
# PBAB01 \$14.95



Bluebird, Mountain  
39 Photos CM  
# PBMB01



Brant, Pacific  
52 Photos CM  
11"x8.5" Booklet  
# PBPP01 \$14.95



Chickadee,  
Black-capped (Basic)  
32 Photos DD  
# PBCH01



Chickadee, Black-capped  
(open-wing and  
advanced poses)  
34 Photos CM # PBCH02



Gadwall M&F  
32 Photos DD  
# PBGA01



Goldeneye Duck  
(both hen & drake)  
32 Photos DD  
# PBGO01



Goldfinch, American  
(Female)  
36 Photos CM  
# PBGF02



Goldfinch, American  
(Male)  
36 Photos CM  
# PBGF01



Goose, Canada  
(flying, stretching)  
20 Photos DD  
# PBGC02



Goose, Canada  
(standing, swimming)  
32 Photos DD  
# PBGC01



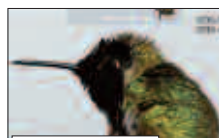
Grebe, Eared  
(some with baby)  
36 Photos CM  
# PBEG01



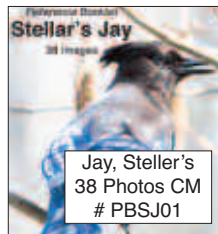
Grosbeak, Pine  
(Female)  
24 Photos DD  
# PBPG01



Hawk, Swainson's  
36 Photos CM  
# PBSH01



Hummingbird,  
Costa's M  
24 Photos CM  
# PBSC01



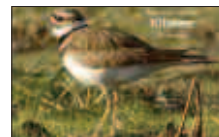
Jay, Steller's  
38 Photos CM  
# PBSJ01



Junco, Dark-eyed  
38 Photos CM  
# PBDEJ01



Kestrel,  
American M  
20 Photos DD  
# PBKE01



Killdeer  
36 Photos CM  
# PBKD01

# Reference Material - Photo Booklets



Loon, Common  
36 Photos CM  
# PBL001



Mallard Drake  
20 Photos DD  
# PBMA01



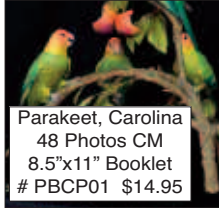
Mallard Hen  
20 Photos DD  
# PBMA02



Owl, Burrowing  
20 Photos DD  
# PBBO01



Owl, Great  
Horned  
20 Photos DD  
# PBGH01



Parakeet, Carolina  
48 Photos CM  
8.5"x11" Booklet  
# PBPC01 \$14.95



Pelican, White  
83 Photos CM  
11"x8.5" Booklet  
# PBAWP01 \$14.95



Plover, Semipalmated  
38 Photos CM  
# PBSP01



Raven, Common  
36 Photos CM  
# PBRV01



Redpoll, Common  
36 Photos CM  
# PBCR01



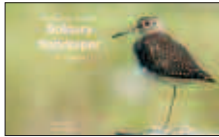
Robin, American  
41 Photos CM  
# PBROB01



Ruddy Duck (M&F)  
(swimming, standing)  
24 Photos CM  
# PBRD01



Sandpiper, Least  
40 Photos CM  
# PBLSP01



Sandpiper, Solitary  
36 Photos CM  
# PBSSP01



Sandpiper, Upland  
24 Photos CM  
# PBUS01



Sheep, Bighorn  
(both sexes)  
24 Photos CM  
# PBBH01



Siskin, Pine  
37 Photos CM  
# PBPS01



Sparrow, Chipping  
46 Photos CM  
# PBCHS01



Sparrow, Clay-coloured  
41 Photos CM  
# PBCCS01



Tern, Black  
40 Photos CM  
# PBBT01



Towhee, Spotted  
38 Photos CM  
# PBST01



Turnstone, Ruddy  
57 Photos CM  
11"x8.5" Booklet  
# PBRT01 \$14.95



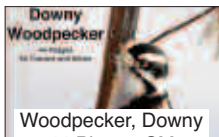
Waxwing, Bohemian  
24 Photos CM  
# PBBW01



Waxwing, Cedar  
40 Photos CM  
# PBCW01



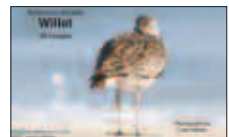
Whimbrel  
36 Photos CM  
11"x8.5" Booklet  
# PBWH01 \$14.95



Woodpecker, Downy  
44 Photos CM  
8.5"x11" Booklet  
# PBDW01 \$14.95

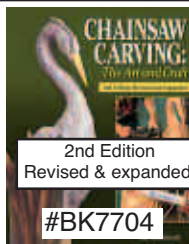


Wren, House  
48 Photos CM  
# PBHW01



Willet  
38 Photos CM  
# PBWL01

# Books - Birds/Animals/Chainsaw



2nd Edition  
Revised & expanded!

#BK7704

## Chainsaw Carving

by Hal MacIntosh

Covers selection and use of chainsaws for carving. Includes carving to finishing steps as well as tool selection and care. A very thorough volume, well illustrated. 168 pgs. SC 8.5x11" **\$33.60**



#BK250X

## Art of Chainsaw Carving

by Jessie Groeschen

Overview of the art form, photo gallery, how-to section. 160 pages. SC 8.5x11" **\$23.95**



#BK7681

## Chainsaw Carving a Bear

by Jamie Doeren

Step-by-step instruction for 3 projects: Bear Cub in a Stump, Caricature Bear with Welcome Sign and Growling Grizzly. 72 pgs. SC 8.5x11" **\$24.00**



#BK32512

## Wild Guide - Bears

by C. Ferguson

Covers North American bears very thoroughly. Great information, essential for bear lovers. 118 pages. SC 6x9" **\$23.95**



#BK2143

## Bear - The Artist's Ultimate Reference

by Doug Lindstrand

Photographs, field illustrations and natural history notes covering all species of bear. 114 pages. SC 8.5x11" **\$23.95**

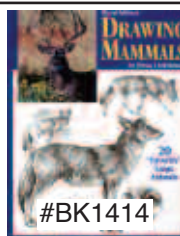


#BK1953

## Deer - The Artist's Ultimate Reference

by Doug Lindstrand

Photographs, field illustrations and natural history notes covering all species of deer. 114 pgs. SC 8.5x11" **\$23.95**



#BK1414

## Drawing Mammals

by Doug Lindstrand

Stunning colour photos for 20 favorite mammals and techniques on drawing them. Superb reference for carvers and painters. 208 pages. SC 9x12" **\$35.95**



#BK5665

## Carving the Elk

by Dale Power

Step-by-step instruction with over 250 colour photos, 3 patterns and information on various positions. Also burning the hair and mounting on a base. 64 pages. SC 8.5x11" **\$15.55**

### Looking for a book not listed here?

There are several reasons why a book you're looking for may not be included in our catalogue: a) it may be new enough that it could not be included in this catalogue (check our website). b) it may be out of print and no longer available. c) it may not be of sufficient quality or value for us to include it in our catalogue. d) we may not be aware of it.

We do our best to make sure the latest and best carving and carving-related books are included in our catalogue and on our online store. Each title is checked for quality and value before we'll include it - unfortunately there are some poor-quality books out there and we don't feel comfortable selling any of them. Books do go out of print fairly regularly. When really good titles are scheduled to go out of print we'll do our best to stock up on them so that we have stock available as long as possible (and never at inflated prices). If you're looking for a book that you don't see listed here or on our website, don't hesitate to contact us. If we're familiar with it, we'll be happy to advise you of the book's print status and quality. If it's a title we're not aware of, we'll check it out and may be able to bring it in for you.

# Books - Mammals/Fish/Aquatics



#BK2194D

**Realistic Dogs**  
by J. Kochan

For more advanced carvers. Covers anatomy to texturing for many diverse species. 68 pages.  
SC 8.5x11" **\$21.55**



#BK2473X

**Carving Patterns**  
by F. Russell

Over 80 high-quality patterns of birds, fish and animals, taken from Frank's many years of teaching. 130 pages.  
SC 8.5x11" **\$17.95**



#BK734X

**The Carver's Book of Aquatic Animals**

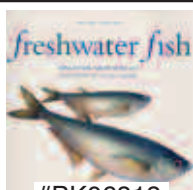
Covers anatomy, patterns, behaviour and carving techniques for sharks, turtles, rays, whales, alligators and manatees. Lots of colour photos and patterns. 174 pages.  
HC 9x12" **\$47.95**



#BK1759

**Freshwater Fish Carving**

by J. Filger  
A beautifully done book giving detailed, concise instruction on carving and painting a Bluegill, Black Crappie, Rainbow Trout & Channel Catfish. 224 pgs.  
HC 8.5x11" **\$42.00**



#BK06818

**Freshwater Fish**  
by Malcolm Greenhaigh

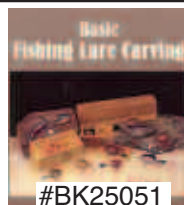
The natural history of 160 native European species, some of which also occur in North America. An indispensable reference. 250 colour photos and illustrations. 192 pages.  
HC 9x9" **\$47.95**



#BK27674

**Whale Carving**  
by R. Cloutier

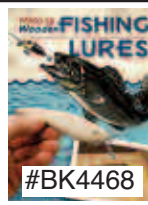
All steps necessary to carve and paint a Sperm and Fin Whale. 120 colour photos. Includes patterns for Humpback, Blue, Right and Grey Whales. 112 pages.  
SC 11x8.5" **\$20.35**



#BK25051

**Basic Fishing Lure Carving**

by G. Hays  
Try your hand at making your own fishing lures with this comprehensive guide. Colour photos, patterns, tips and tricks. 64 pages.  
SC 8.5x11" **\$17.95**



#BK4468

**Making Wooden Fishing Lures**

by Rich Rousseau  
Everything you need to know to make your own wooden lures that really catch fish. Includes a gallery of historic and contemporary wooden lures. 176 pages.  
SC 9x6" **\$23.95**



#BK7803

**Lurecraft**  
How to Make Plugs, Spinners, Spoons and Jigs to Catch More Fish  
by Russ Mahoney

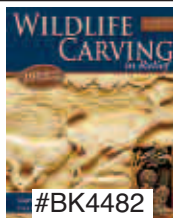
Comprehensive book that is a "must-have" for anyone wanting to carve their own fishing lures. 304 pages.  
SC 8.5x11" **\$24.00**



#BK38854

**Carving Animals: Bunnies & Chipmunks**  
by Rosalyn Daisey  
2 Rabbit and 2 Chipmunk projects. 739 colour photos for superb instruction for carvers of any level.

256 pages.  
HC 8.5x11" **\$54.00**



#BK4482

**Wildlife Carving in Relief** Revised 2nd Ed.

by Lora Irish  
Nearly 50 beautiful patterns and step-by-step instruction makes this book very useful to relief carvers of all skill levels. 178 pages.  
SC 8.5x11" **\$29.95**



#BK8510

**Carving Bears**  
by Desiree Hajney

Patterns, reference photos and carving tips for Black, Grizzly and Polar Bears by one of the best-known animal carvers in the world. 48 pages.  
SC 8.5x11" **\$16.99**

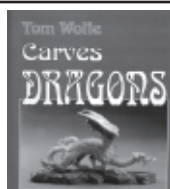
# Books - Fantasy/Flowers/Whittling



#BK2313

## Great Book of Dragon Patterns - 2nd Edition

by Lora S. Irish  
More than 100 dragon patterns (31 new ones) for carvers and artists. An interesting section on history and anatomy. Enlightening for those of us who have never seen a real dragon. 182 pages SC 8.5x11" **\$23.95**



#BK5762

## Tom Wolfe Carves Dragons

Start to finish instruction using both traditional and rotary tools. Lots of great photos guide you along each step of the way. 5 patterns are also included. 80 pages SC 8.5x11" **\$15.55**



Revised & updated!

#BK8077

## Carving Fantasy and Legend Figures in Wood

by Shawn Cipa  
Patterns and inspiration for carving creatures of lore: mermaids, dragons, wizards, fairies etc. Step-by-step advice, too. 114 pgs. SC 8.5x11" **\$24.00**



#BK2259

## Great Book of Fairy Patterns

by Lora S. Irish  
More than 100 fairy patterns for carvers and artists. An interesting section on history and anatomy as well as various fairy types and their appearances. 186 pgs. SC 8.5x11" **\$23.95**



#BK1740

## The Art of Stylized Wood Carving

by Charles Solomon and David Hamilton

Features the work of 14 top artists and 5 complete step-by-step carving projects. 105 pages SC 8.5x11" **\$23.95**



#BK3294

## Carving Gargoyles, Grotesques, and Other Creatures of Myth

by Shawn Cipa  
2 complete projects step-by-step and 26 more patterns. Finishing techniques include aged-stone appearance. 160 pgs. SC 8.5x11" **\$23.95**



#BK4475

## Great Book of Floral Patterns

second edition by Lora S. Irish.

With 16 new patterns, updated, revised and expanded. 216 pages SC 8.5x11" **\$29.95**



#BK8183

## Carving Realistic Flowers in Wood

New revised by Wanda Marsh

Rose, Hibiscus, and Morning Glory carved and painted step-by-step. 64 pages SC 8.5x11" **\$18.00**



BK076

## The Art of Whittling

by W. Faurot

1930's classic reprint shows how to make lots of items from chains and ball-in-cage to buildings in bottles. 90 pages SC 16x9" **\$11.95**



#BK2364

## Whittling Twigs and Branches (2nd Edition)

by Chris Lubkemann

Make fun, easy keepsakes with simple tools and found twigs. 68 pages SC 8.5x11" **\$11.95**



#BK2747

## The Little Book of Whittling

by Chris Lubkemann  
What a fun book! With just a pocket knife, Chris helps you create great little projects using found wood - on the trail or at home! 96 pages SC 8.5x11" **\$15.55**



#BK3140

## Great Book of Celtic Patterns

by Lora S. Irish  
Over 200 original patterns with instruction for Celtic knot, textures, twists and braids. Great for carving or pyrography patterns. 200 pages SC 8.5x11" **\$23.95**

# Books - General Carving & Sharpening



#BK3584

## Wood Carving Projects and Techniques

by Chris Pye

23 sections covering almost all aspects of carving from a master carver.

178 pages  
SC 8.5x11" **\$27.55**



#BK2921

## Complete Book of Wood Carving

by Everett Ellenwood

Wood and tool selection, classic techniques - even power tools! 224 pages  
SC 8.5x11" **\$29.95**

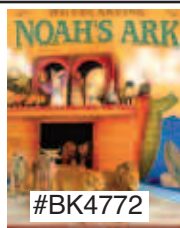


#BK7870

## A Horse of a Different Color

by Tom Wolfe

Takes you through many steps to complete a walking horse from getting started through painting. Gallery included.  
64 pages  
SC 8.5x11" **\$15.55**



#BK4772

## Woodcarving Noah's Ark

by Shawn Cipa

Detailed plans and carving and painting instructions for Noah and his wife, the Ark, and 14 Pairs of Animals.  
160 pages.  
SC 8.5x11" **\$27.55**



#BK1228

## Parables Wood Sculptures

Featuring the incredible work of Christopher White. Breath-taking sculpture, poetry and inspirational messages. Overview section on the making of his sculptures. A superb coffee table book sure to inspire. 116 pages  
HC 9.5"x12.5" **\$41.95**

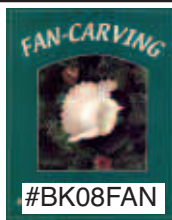


BK1597

## Carving Found Wood

by Vic Hood and Jack A. Williams

Shows techniques used by acclaimed carvers as well as a gallery. Includes step-by-step bark carving of a human face. 96 pgs.  
SC 8.5x11" **\$23.95**



#BK08FAN

## Fan Carving

by Sally & David Nye

Old world folk art from one piece of wood. Discover this fascinating in style - simple and beautiful projects.  
72 pages  
SC 8.5x11" **\$27.55**

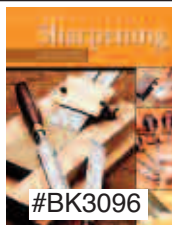


#BK17FAN

## More Fan Carving

by Sally & David Nye

Seventeen amazing creations each from one block of wood. More in-depth information on wood preparation, etc.  
140 pages  
SC 8.5x11" **\$41.95**



#BK3096

## Wood Worker's Guide to Sharpening

by J. English

Many different and simple options for sharpening almost any edge tool.  
168 pages  
SC 8.5x11" **\$23.95**



#BK118X

## Sharpening and Knife Making

by Jim Watson

Sharpening techniques for carving tools and knives of various shapes. Includes a section on knife making as well as resurfacing sharpening stones.  
330 b/w photos. 176 pgs.  
SC 6"x9" **\$15.55**



#BK9628

## 108 Animal Patterns

by Tom Wolfe

Profile patterns for everything from dragons to mice, pigs, racoons and more. Great starting point for caricatures, too.  
SC 8.5x11" **\$11.95**



#BK4857

## Building Wooden Snowshoes and Snowshoe Furniture

by Gil Gilpatrick

A complete guide to every aspect of this fascinating and unusual craft. Make your own custom-made (and woodburned?) snowshoes. 160 pgs.  
SC 8.5x11" **\$23.95**



# Books - General Carving



#BK4505

## Power Carving Manual by Fox Books

A wealth of patterns, projects, tool reports and more from 5 master carvers. 152 pages  
SC 8.5x11" **\$23.95**



#BK3188

## New Complete Guide to the Bandsaw by Mark Duginske

Get the most from the most versatile tool in the shop. This book covers everything! 192 pages  
SC 8.5x11" **\$23.95**



#BK01126

## Power Carving Tools and Techniques

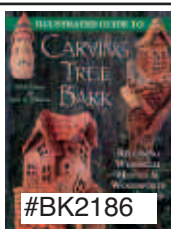
by Woodcarving Illustrated  
Contains info on selecting and using carving and burning tools and cutters as well as step-by-step projects.  
120 pages  
SC 8.5x11" **\$11.95**



#BK1457

## Carving the Female Face by Wally Lueth

Step-by-step face carving section. Covers carving of women of different ethnicity and ages. Great reference photo section and information on clay modelling. 68 pages  
SC 8.5x11" **\$15.55**



#BK2186

## Carving Tree Bark by Rick Jensen & Jack A. Williams

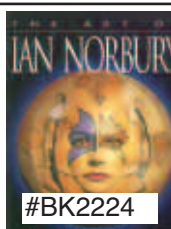
"Releasing whimsical houses and woodspirits from found wood". This book will release your imagination to create unique and fascinating carvings. 76 pages  
SC 8.5x11" **\$17.95**



#BK8251

## Gourd Carving by Jim Widess and Ginger Summit

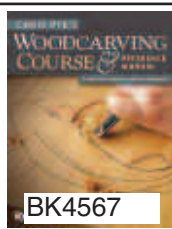
Revised and Expanded  
Featuring the work of dozens of gourd carving artists (even includes photos of a gourd carved by Cam Merkle). 190 pgs.  
HC 8.5x11" **\$29.95**



#BK2224

## The Art of Ian Norbury

A huge collection of masterful carvings by one of the world's best carvers. Sure to inspire!  
152 pages  
SC 8.5x11" **\$29.95**



BK4567

## Woodcarving Course and Reference Manual by Chris Pye

Very thorough and diverse manual with 4 projects covering moldings, relief, a ball cap and a wren in the round. 160 pages  
SC 8.5x11" **\$23.95**



# DVD's - Carving



#DVHERB01

**American Avocet DVD set** with Del Herbert. 2 information-packed DVD's cover start-to-finish carving and painting an Avocet as only Del can. **\$51.95**



#DV1102



**2-DVD Set: American Kestrel** with Floyd Scholz

4-1/2 hours of superb instruction on carving and painting a male Kestrel and a driftwood branch. 2 DVD Video discs **\$62.45**



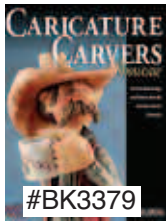
#DVFOR131



**3 DVD Set: Power Carving Fur, Feathers & Fins** with Frank Russell.

Learn how to carve and texture a rabbit, mallard, and bass with power tools. Over 3-1/2 hours total instruction. **\$38.95**

# Books - Caricature



#BK3379

## Caricature Carvers Showcase

by the Caricature Carvers of North America

Includes patterns, design, biographies, carving and painting techniques from 30 artists. 124 pages SC 8.5x11" **\$23.95**

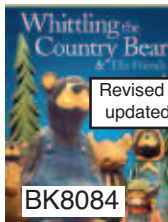


BK121X

## Caricature Carving From Head to Toe

by Dave Stetson

A step-by-step guide to capturing expression and humour in wood. Three projects - Santa, Cowboy and Ball player. 92 pgs. SC 8.5x11" **\$23.95**



Revised & updated!

BK8084

## Whittling the Country Bear and His Friends

by Mike Shipley

Whimsical creatures are fun and easily carved. Includes several bear poses as well as moose, rabbit and beaver. 64 pgs. SC 8.5x11" **\$18.00**



#BK2771

## Carving Santa and His Friends

by Tom Wolfe

Dozens of ideas and techniques for carving Santas of all shapes and sizes, from simple to not-so-simple. 64 pages SC 8.5x11" **\$11.95**



#BK87EH

## Carving MacGolfers

by Eldon Humphries

Photos, patterns and step-by-step instruction for 8 Scottish golfers.

76 pages SC 8.5x11" **\$19.15**



#BK2011

## Carving Golfers

by Bill Howrilla

12 different projects to impress your golfing friends. These delightful pieces capture the joy and frustration of golfing.

76 pages SC 8.5x11" **\$17.95**



#BK1376

## Carving Caricature Pins & Bolos

by Gary Batte

A delightful book with 68 fun patterns. Loads of fun and easy-to-carve small projects!

68 pages SC 8.5x11" **\$17.95**

# Pyrography Kits by Sue Walters



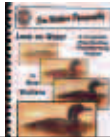
Peregrine Falcon  
#SWP01



Chickadee & Pine  
#SWP02



Chipmunk on Rock  
#SWP03



Loon on Water  
#SWP04



Tiger Portrait  
#SWP05

5 complete kits each include step-by-step instruction manual, basswood, pattern, transfer paper and sandpaper. The manual includes introductory burning info, concise instructions including photos, tips and troubleshooting advice, spare pattern and a colour photo of the finished project. **\$23.95 each**



# DVD's - Pyrography



#SWDVD01

## 2-DVD Set: Pyrography Workshop - Hawk

with Sue Walters

2 DVD set covers everything. Includes 16 page booklet, 2 patterns. Complete a hawk in 10 lessons from one of the world's best woodburning artists. **\$29.95**



#SWDVD01

## DVD/ Bonus Booklet Set: Burning Night: The Art of Negative Space Woodburning

with Sue Walters

15 lessons help you create stunning results by engraving through a burnt surface, opening new possibilities for pyrography. **\$29.95**

# Pyrography Paper

Specially designed paper for pyrographic artists. Draw directly on it, or use it in your laser or inkjet printer. The ink needs to air dry when using an inkjet printer since the paper is not porous. Once attached to your burning surface (usually with masking tape), you can burn right through it! Speeds up pattern layout and provides faster, more consistent results. Supplied in a package of 50 sheets 8.5"x11". #PYROPAPER50 **\$10.20**

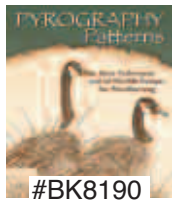
# Books - Pyrography



#BK2585

## Pyrography Workbook

by Sue Walters  
This has been one of the "hottest" books ever produced on pyrography by an artist who is truly one of the best in the world. 160 pages  
SC 8.5x11" **\$23.95**



#BK8190

## Pyrography Patterns

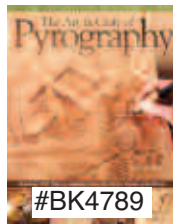
by Sue Walters  
30 designs (line and shaded) for woodburning or drawing can either be used "as-is" or as reference to make your own. Also includes 10 border designs. 80 pages  
SC 8.5x11" **\$20.35**



#BK2879

## Great Book of Woodburning

by Lora S. Irish  
Filled with useful tips and techniques. A great addition to existing pyrography books; highly recommended.  
200 pages  
SC 8.5x11" **\$23.95**



#BK4789

## The Art and Craft of Pyrography

by Lora S. Irish  
Drawing with Fire on Leather, Gourds, Cloth, Paper and Wood. 35 amazingly detailed new projects to broaden your skills. 144 pages  
SC 8.5x11" **\$23.95**



#BK7293

## Learning the Art of Pyrography

by Al Chapman  
An excellent mix of techniques and projects for wood, leather and paper. Sure to inspire and educate. Highly recommended. 66 pages  
SC 8.5x11" **\$15.55**



#BK7285

## Learn to Burn

by Simon Easton  
A step-by-step guide to getting started in pyrography. Includes fifteen step-by-step projects for making decorative gifts and 50 bonus patterns. 96 pages  
SC 8.5x11" **\$20.40**



#BK4437

## Woodburning with Style

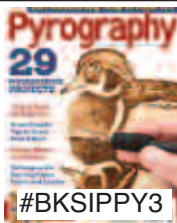
*Pyrography Lessons and Projects with a Modern Flair* by Simon Easton.  
Filled with lessons, projects and ideas using burning to decorate many different objects. Superbly written. 208 pages  
SC 8.5"x11" **\$29.95**



#BK5052

## Pyrography Basics

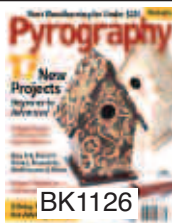
by Lora S. Irish  
Techniques and exercises for beginners. A great starter book covers basic tools, materials and techniques with 7 skill-building projects. 32 pages  
SC 8.5"x11" **\$12.00**



#BKSIPPY3

## Pyrography Volume 3 - 2013 - The Art & Craft of Woodburning

3rd Pyrography annual from Fox Books is a wealth of the latest information, techniques and tips from the world's top artists. Magazine 112 pgs. **\$11.95**



BK1126

## Pyrography Volume 2 - 2012 - 17 New Projects - Beginner to Advanced

2nd Pyrography annual from Fox Books filled with tips from making your own patterns to adding colour. Includes a buyers guide. Magazine 112 pgs. **\$11.95**



BK01671

## Pyrography Volume 1 - 2011 - Learn to Burn

1st Pyrography annual from Fox Books is filled with information, techniques and tips from the world's top artists. Magazine 112 pgs. **\$11.95**



#BKPSET3

**Buy all 3 and save!**  
Set of 3 Pyrography Annual magazines 2011, 2012 and 2013.  
Save \$11.90! **\$23.95**

# Books - Pyrography



#BKDEN01

## Lifelike Pyrography from Photographs

by Nedra Denison

Use your own photos to create original artwork. Packed with tips and hints, a step-by-step demo and examples of various projects. 70 pages  
SC 8.5x10" **\$29.95**



#BKDEN03

## Pyrography Patterns

by Nedra Denison

14 patterns from Nedra's original woodburnings, suitable for all levels of woodburning artist from beginner to advanced. 36 pages  
SC 8.5x10" **\$19.15**

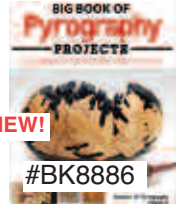


#BKDEN04

## The Art of Pyrography

*Taking Woodburning to New Limits* by Nedra Denison.

Encourages experimentation with new techniques and materials, including gourds, burls and more. Many new patterns and a gallery by a variety of artists. 66 pages  
SC 8.5x10" **\$23.95**



**NEW!**

#BK8886

## Big Book of Pyrography Projects from Woodcarving Illustrated

Expert techniques and 23 all-time favorite projects in multiple materials. Includes tool selection and care and an inspiring gallery. 128 pages  
SC 8.5x11" **\$23.99**

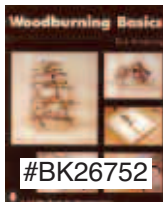


#BK4910

## Step by Step Pyrography

by Bob Neill.

Learn to embellish common items with Bob's simple, yet elegant designs. A great starter book, filled with ideas and designs, as well as how-to tips. 80 pages  
SC 8.5x11" **\$15.55**

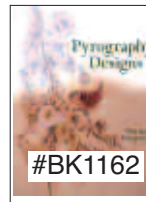


#BK26752

## Woodburning Basics

by Dick Armstrong

Written mainly for beginners using a simple solid-tipped burner. 3 projects will teach skills useful to artists of all skill levels. 66 pages  
SC 8.5x11" **\$17.95**



#BK1162

## Pyrography Designs

by Norma Gregory

Very high-quality designs of birds, mammals, flowers, herbs, water life, farms and cottages and Celtic knotwork, all free of copyright. 114 pages  
SC 8.5" x11" **\$15.55**

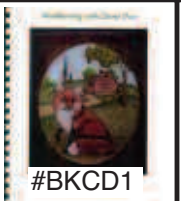
## Cheryl Dow DVD



#DVCD1

## 2-DVD Set: Woodburning with Cheryl Dow.

Instruction from a week-long seminar packed it into 2 DVD's. Shows dozens of tips and techniques. Includes patterns. Approx. 5 hours total.  
**\$59.95**



#BKCD1

## Woodburning with Cheryl Dow Vol. 1

14 patterns. Basic information on tips & techniques. **\$16.75**



#BKCD2

## Woodburning with Cheryl Dow Vol. 2

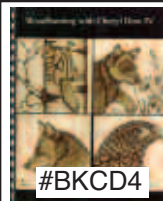
11 new patterns with more techniques. **\$16.75**



#BKCD3

## Woodburning with Cheryl Dow Vol. 3

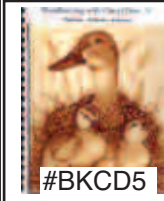
10 large, more advanced patterns. **\$16.75**



#BKCD4

## Woodburning with Cheryl Dow Vol. 4

Over 50 patterns with basic burning information. **\$16.75**



#BKCD5

## Woodburning with Cheryl Dow Vol. 5

40 Patterns with instruction and tips for each. **\$26.40**

## Can I Use My Razertip Tools?

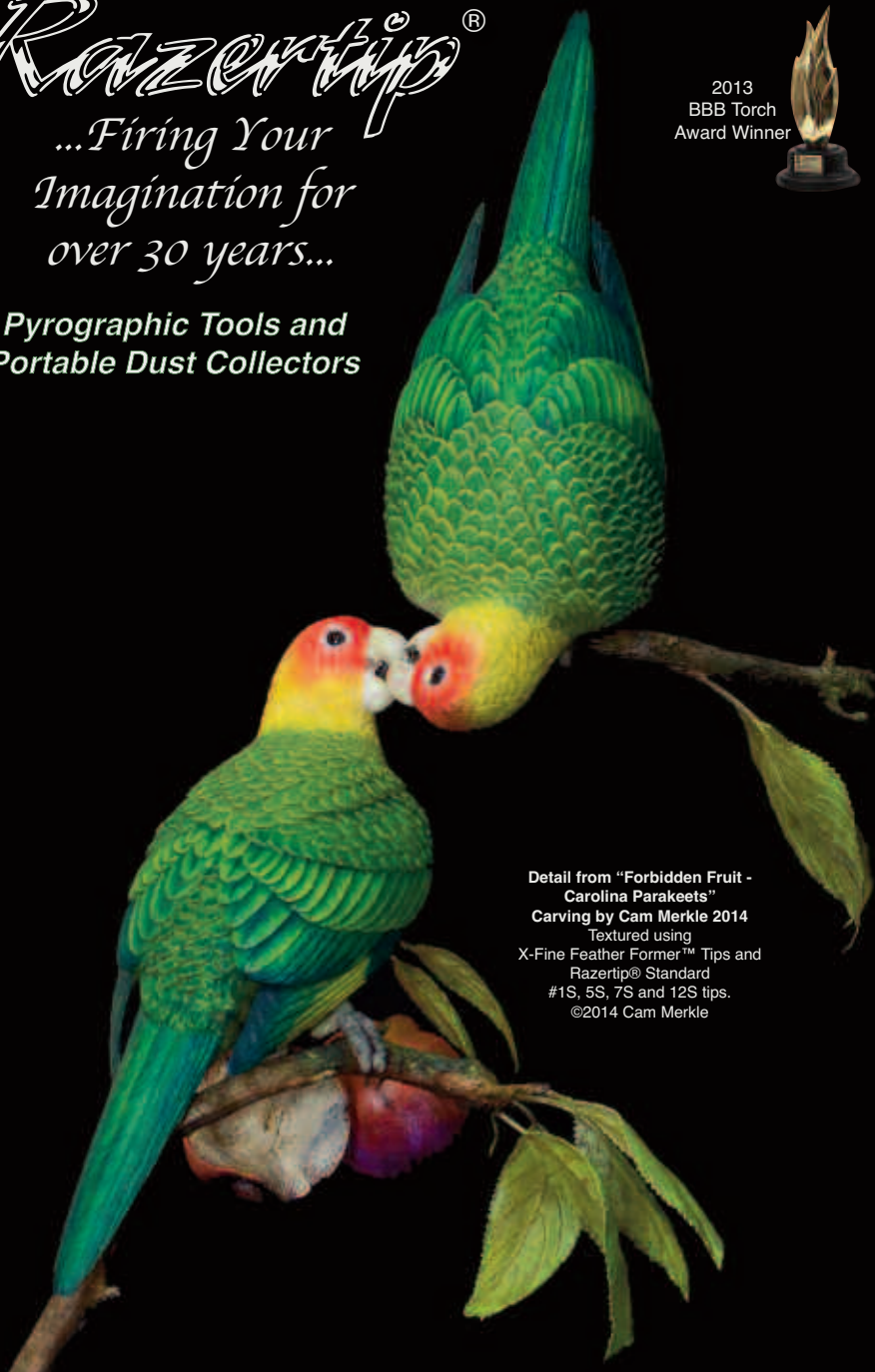
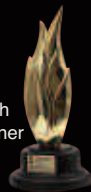
Many of the books and videos (especially the newest ones) are using Razertip tools, but some show other brands. We're often asked if Razertip tools can do the work shown in these books. The answer is yes. With the world's largest selection of tip shapes and a choice of interchangeable or fixed tip pens, Razertip pens can indeed do it all. If you are not sure how Razertip will perform with a specific technique, just give us a call on our toll-free line or drop us an email and we will be glad to help you!

# Razertip®

*...Firing Your  
Imagination for  
over 30 years...*

**Pyrographic Tools and  
Portable Dust Collectors**

2013  
BBB Torch  
Award Winner



Detail from "Forbidden Fruit -  
Carolina Parakeets"

Carving by Cam Merkle 2014

Textured using

X-Fine Feather Former™ Tips and

Razertip® Standard

#1S, 5S, 7S and 12S tips.

©2014 Cam Merkle

PO Box 910, 301-9th Street North, Martensville, SK S0K 2T0  
Ph. 306-931-0889 Fax 306-242-6119 Toll-free order line 1-877-729-3787  
email: [info@razertip.com](mailto:info@razertip.com) [www.razertip.com](http://www.razertip.com)  
Catalogue #R21 Effective Jan 1, 2016 Tip Index on [Page 131](#)

# Razertip® SS-D10



The SS-D10 is Razertip's workhorse, with many features not found on any other burner. Dual handpiece capability allows you to have 2 pens plugged in at the same time and change between them at the flick of a switch. This is particularly useful if your work calls for frequent handpiece or cord changes. It saves time and wear on the connectors. The SS-D10's extra low-end temperature adjustment allows you to turn the heat down further if the "1" setting is still too hot. If you are sculpting wax or detailing plastics, you'll love the extra range available on the low end of the SS-D10. Choice of regular or heavy-duty pen included.

**SS-D10 burner w/ 1-std. pen & 1-18 gauge extra-flex cord**  
cat# SS-DF(pen#) Example - w/ F1L pen #SS-DF(F1L)

**\$197.50**  
(120V w/ std. pen)

**SS-D10 burner w/ 1-heavy-duty pen & 1-16 gauge HD cord**  
cat# SS-DHD(pen#) Example - w/ HD1L pen #SS-DHD(HD1L)

**\$202.50**  
(120V w/ HD pen)

# Razertip® SK



Don't let the SK's small size fool you. It's packed with the same power and circuitry as the SS-D10, so it's great as a starter unit or as a second burner for the serious artist. So what's the difference from the SS-D10? The SK will accept only one handpiece at a time, making it necessary to unplug and plug in handpieces when changing over, and it doesn't have the extra-low-end temperature adjustment. Other than that, it's essentially the same unit as the SS-D10. Choice of regular or heavy-duty pen included.

**SK burner w/ 1-standard pen & 1-18 ga. extra-flex cord**  
cat# SK(pen#) Example - w/ F1L pen use #SK(F1L)

**\$158.95** (120V w/ std. pen)

**SK burner w/ 1-heavy-duty pen & 1-16 ga. HD cord**  
cat# SK(pen#) Example - w/ HD1L pen, #SK(HD1L)

**\$163.95** (120V w/ HD pen)

# Razertip® Pyrographic Tools

## Europe



220/240V (50/60Hz) Razertip burners specially made to be used in Europe. Both SK and SS-D10\* models are compliant with European safety standards (CE Mark) and European Reduction of Hazardous Substances directives (RoHS). Can be supplied with European plug, British plug, or Italian plug. Other plugs also available by request. Price includes standard pen & standard cord. Add \$5.15 for HD pen/cord.



- SK (Europe) w/ Eurocord #EUSK **\$169.50**
- SS-D10\* (Europe) w/ Eurocord #EUSS-D10 **\$207.95**
- SK (Europe) w/ 3-prong British plug #GBSK **\$184.75**
- SS-D10\* (Europe) w/ British plug #GBSS-D10 **\$223.50**
- SK (Europe) w/ Italian plug #ITSK **\$169.50**
- SS-D10\* (Europe) w/ Italian plug #ITSS-D10 **\$207.95**

\* SS-D10 burners for Europe do not have the extra-low end temp adjustment feature.

## Australia/New Zealand

220/240V (50/60Hz) Razertip burners specially made to be used in Australia. Both SK and SS-D10 models are certified to Australian C-Tick standards. Supplied with Australian power plug. Price includes standard pen and standard cord.



#N11614

Add \$5.15 for HD pen/cord.



- SK (Australia) #AUSK **\$169.50**
- SS-D10 (Australia) #AUSS-D10 **\$207.95**

Razertip® pyrographic tools have been setting the standard for hot-wire pyrographic tools since the mid 1980's. They feature near instant heat response and ultra-sharp tips (120+ lines per inch). Choose among three different handpiece types: standard pens are the smallest and coolest; HD pens are cool and tough; and the BPH pen allows you to change tips or even make your own tips. With hundreds of stock tip shapes, most of which are unique to Razertip®, we can meet your pyrographic needs whatever they may be. We take your safety seriously, too. Our CSA C/US safety certification covers both Canada and the USA, making Razertip® tools the only line of hot-wire pyrographs that can legally be sold in every province and state in North America.

If you're looking for great value in a lifetime-quality tool at a competitive price, Razertip® can fit the bill, with two different power supplies. Both are made to stand up to serious professional use, yet are simple enough for a child to operate (under adult supervision). Both the SS-D10 and the SK share the following features (features marked \*\* are unique to Razertip®):

- ▶ 10 amp output provides the fastest tip-heat recovery in the industry\*\*
- ▶ ideal wide-range temperature control: won't scorch wood at "1" through to "red-hot" at 10
- ▶ all models are safety certified or listed/compliant\*\* (CSA#LR95555)
- ▶ super-flexible adapter cords (in standard or heavy-duty)\*\* will accept most any brand of pen
- ▶ indexed handpiece indicator lights\*\* can help confirm proper pen and cord operation
- ▶ ultra-stable control circuitry\*\* for consistent burns even when turned on-and-off-and-on again
- ▶ removeable and reversible handpiece cords allow use of extra-flex or heavy-duty cords
- ▶ laser-welding technology\*\*
- ▶ unconditional warranty\*\* covers *everything* (and we mean everything!) for 3 years on the power supply and one year on all handpieces *including* fixed tips. Even if you drop your pen and break the tip - it's covered!\*\*

## Value-Priced Starter Packages

Just getting started with pyrography? Not quite sure what you need? We'll make it a bit easier for you with one of our starter packages. Packages are available for carvers, general pyrography, gourd artists and wood turners. Each package contains the most useful pens/tips/cords for your particular interest.

### Package #1 - Carving

*Includes:*

- 1- Power supply (SK or SS-D10)
- 1- Standard Cord #CORD1FL
- 1- Heavy-Duty Cord #CORD1HD
- 1- Tip Cleaner #CLEANER
- 1- Large Skew Std. pen #F1L
- 1- Small Spear Std. pen #F5S
- 1- Small Round Skew Std. pen #F7S
- 1- HD Quill Maker pen #HD5MC



w/ SK Burner (value \$277.90)  
# KIT01-SK           **\$265.70**

w/ SS-D10 Burner (value \$316.45)  
# KIT01-SSD           **\$299.95**

### Package #2 - Pyrography

*Includes:*

- 1- Power supply (SK or SS-D10)
- 1- Standard Cord #CORD1FL
- 1- Heavy-Duty Cord #CORD1HD
- 1- Tip Cleaner #CLEANER
- 1- Medium Knife Std. pen #F14M
- 1- Small Round Std. pen #F2S
- 1- 1/16" Ball Std. pen #F99.015
- 1- HD Medium Shader pen #HD30M



w/ SK Burner (value \$ 277.90)  
# KIT02-SK           **\$265.70**

w/ SS-D10 Burner (value \$316.45)  
# KIT02-SSD           **\$299.95**

### Package #3 - Gourd Art

*Includes:*

- 1- Power supply (SK or SS-D10)
- 1- Standard Cord #CORD1FL
- 1- Heavy-Duty Cord #CORD1HD
- 1- Tip Cleaner #CLEANER
- 1- Small Skew Std. pen #F1S
- 1- 1/16" Ball Std. pen #F99.015
- 1- Gourd Cutter Std. pen #F9G.17
- 1- Med/Small Shader pen #HD5MSP



w/ SK Burner (value \$ 277.90)  
# KIT03-SK           **\$265.70**

w/ SS-D10 Burner (value \$316.45)  
# KIT03-SSD           **\$299.95**

### Package #4 - Woodturning

*Includes:*

- 1- Power supply (SK or SS-D10)
- 1- Standard Cord #CORD1FL
- 1- Heavy-Duty Cord #CORD1HD
- 1- Tip Cleaner #CLEANER
- 2- Interchangeable-tip pens #BPH
- 1- Set of 5 ball tips #SET99X5
- 1- Pkg of assorted Tip wire #TW6.AST
- 1- HD Med Wide Spear pen #HD5MH
- 1- HD Spear Shader #HD5MP



w/ SK Burner (value \$321.85)  
# KIT04-SK           **\$305.00**

w/ SS-D10 Burner (value \$360.30)  
# KIT04-SSD           **\$342.50**



# Razertip® Handpiece Cords

Razertip® cords incorporate many unique features that make them the most reliable cord on the market. All of our RCA connectors are precision-machined, then carefully inspected, fitted, and electrically reinforced. In other words, they're made to handle the current and tugging like no other plug. Then we install our unique flexible strain relief behind the plug. The strain relief spreads the flexing of the cord over a larger area, assuring many years of dependable service. Our super-flexible cable gives you unmatched comfort and control too.

## FAQ: What's the difference between Standard and Heavy-duty cords?

**A)** Standard "FL" cords (black plugs) use an 18-gauge cord for maximum flexibility. Heavy-Duty "HD" cords (red plugs) use a 16-gauge cord for maximum current flow, but it's not quite as flexible. For fastest tip heat recovery the HD cord is recommended. Any of our pens work on either cord, but HD pens perform best with HD cords.



# CORD1FL (39") \$17.50

**#1 Cord** One male connector on each end. Supplied with Razertip® burners. Available in "FL" (super-flexible) or "HD" (heavy-duty). Also allows use of Razertip® pens on most other burners (except Detail Master which uses #CORD3). 1M (39") long.

# CORD1HD (39") \$18.50

A 12" version of the #1 cord is available for use as a patch cord on Colwood burners:

# CORD7FL (12") \$16.50

# CORD7HD (12") \$17.50



# CORD2FL (39") \$17.50

**#2 Cord** One male, one female. Allows you to use other pens (Detailer, Nibs, Optima) on a Razertip® power supply. Can also be used as an extension cord on the #1 or #7 cords. 1M (39") long.

# CORD2HD (39") \$18.50



# CORD3FL (39") \$18.50

**#3 Cord** One male, one 1/4" phone plug. Use Razertip® pens on power supplies with a 1/4" phone jack (Detail Master, etc.). 1M (39") long.

# CORD3HD (39") \$19.50



# CORD4FL (39") \$17.50

**#4 Cord** Use Razertip® pens on power supplies with two "U" connectors (Colwood). Attaches to box with screws. 1M (39") long.

# CORD4HD (39") \$18.50



# CORD5FL (39") \$17.50

**#5 Cord** Allows you to use Razertip® pens on power supplies that have two banana connectors. Not available in HD. 1M (39") long.



# CORD8HD (12") \$18.50

**#8 Cord** Adapter cord to use Detail Master pens on Razertip® power supplies. Available in HD only. 12" long.

**Need a cord** that's not listed here? No Problem! We can make cords with special ends or in special lengths.

## Adapters



Adapts Optima, Colwood or Nibs pens to a Razertip® standard cord. (CORD1FL, CORD1HD, CORD7FL, CORD7HD) # **AD1** \$4.75



Adapts Detail Master or similar pen to a Razertip® power supply. # **AD2** \$6.25



Adapts Razertip® pens to Colwood, Nibs, Optima etc. # **AD4** \$5.75

## Tip Cleaner



Another Razertip® exclusive! This ingenious tool removes carbon buildup from most sharp Razertip® tips quickly and easily. Prolongs tip life (compared to using abrasives). One hand operation; works without turning off power. Includes a flip-away blade cover for safety.

**# CLEANER \$11.95**

*Note: We suggest that you never use abrasives to clean burner tips. Abrasives wear your tip out and will cause it to carbon up quicker than if you scraped it. We realize that some manufacturers advocate abrasives to clean tips. Either they don't know about scraping or they have other motives (i.e. selling you more tips). Scraping works best!*

*For tips that can't be scraped (scale tips, Feather Formers™, ball tips), use a dense brass brush.*

## Grips and Clips (all shown actual size)



Replacement foam grip for standard Razertip pens.  
**# GRIP \$1.65 ea.**



Handpiece clip with adhesive back  
**# CLIP \$2.25 ea.**



Extra-thick foam grip fits standard Razertip pens. Great for extra comfort, especially if you have sensitive fingers or like to burn at high heat settings. Also popular with artists who prefer the feel of a larger pen.  
**# GR IPL \$1.65 ea.**



This is the foam grip that is supplied with Razertip's ventilated HD pens. It will also fit on the earlier, non-vented HD pens (you may have to cut the original grip off first). This grip will only fit on a heavy-duty (HD) pen - the inner hole is too big for a standard pen.  
**# GR IPHD \$1.65 ea.**

## Coloured ID Rings for Pens

What a great idea! Several of our customers suggested that we provide a simple way for them to quickly tell one pen from the other without having to pick it up and look carefully at the tip. These "O"-rings are the solution. Sold in a set of 24 (3 each of 8 colours), they can be rolled onto the pen body (just behind the grip is a good place) in any combination to quickly ID different pens by the ring colours. For example, I have a red ring on my #1S pen and a white ring on my #7S pen. Also helpful to distinguish your pens from others in classes or workshops. They are re-usable and will fit Standard or HD pens.



24 rings, 3 ea. black, blue, green, orange, purple, red, white, yellow. **# RINGSET24 \$3.99**  
Also available individually **# RING516(colour)** eg: **RING516BLUE @ 20 cents each**



# Razertip® General Information

Razertip Industries Inc. is open Monday through Friday 9AM-5PM. We are closed for all Canadian holidays and for the week between Christmas and New Year's Day. We are located at 301- 9th Street North - in the north end of Martensville, Saskatchewan. Just look for a big metal building *with black and red accent stripes*.

## Pricing and Currency Rates

All prices shown are effective Jan. 1, 2016 and are subject to applicable taxes and shipping charges. Direct orders billed to credit cards will be billed in Canadian dollars. Because of this, the actual cost to US customers will vary with currency exchange rates. US dollar prices are subject to fluctuations with currency markets. Please call if you are unsure how exchange rates work. We make every effort to maintain consistent pricing for the duration of this catalogue, however, we reserve the right to change prices and specifications without notice.

At the time of publication, all information in this catalogue was accurate to the best of our knowledge, however, errors and omissions may occur. We will not be responsible for such errors or omissions except where our guaranty and return policy would allow. Liability is limited to the actual cost of goods sold and does not cover consequential damages or suitability of goods for a specific purpose.

## Razertip® and the Environment

**Longevity:** Razertip® products are intended to last many, many years. Although we live in a "throw-away" world where many items are not practical to repair, Razertip products are designed to be serviced instead of being discarded. No "planned obsolescence" here! People who bought Razertip tools 30 years ago are still using them today with superb results and compatibility with *all* of our current pens and accessories.

**Energy efficiency:** Razertip has always made the most energy efficient power supplies in the world. Capable of producing over 1400 degrees F (bright red tip) while using less than 30 watts of power, they truly are the best choice. We make every effort to use suppliers and sources as close to home as possible to reduce environmental manufacturing impact.

## Razertip's Exclusive Unconditional Warranty

When we say *unconditional*, we mean it! Here's the deal - if any Razertip® or Razaire™ product fails within the warranty period for any reason whatsoever - simply return the item(s) to us and we will make it right.

This includes your satisfaction with our products. For example, if you buy a pen and later decide that the tip doesn't meet your needs, send it back and we'll re-tip it with the tip of your choice at no charge.

If you need service after the warranty has expired, be sure to contact us. Razertip products are designed to last many years and we can re-tip or otherwise repair most products in a very cost-effective manner. Please, don't throw it out without checking with us first.

*(Alas, we were unable to rescue the SK shown at left after a truck drove over it. The customer got a replacement unit under warranty).*



## Tips

**The Tips** that started it all back in 1985! "Razer" sharp and super fine. Tips are sharpened and polished to a Razer-sharp edge. Many Razer-tips can burn over 120 lines per inch right out of the package! We make over 860 different tip configurations plus custom tips, most in your choice of fixed or interchangeable styles. All of our pens and fixed tips carry a full one year *unconditional* warranty. If a fixed tip fails after one year, don't throw it out! It costs only \$6.00\* (except for scale tips and Feather Formers which are actual cost of tip) including shipping and taxes to have it replaced. Interchangeable tips are *unconditionally* warranted for 90 days.

**Tip Replacement Service.** We have the ability to re-tip *any brand or make of hot-wire tool made*, including Detail Master, Colwood, Nibs, Optima, and any others. The cost for re-tipping of Detail Master standard or vented pens is a flat fee of \$10.00\*. Detail Master extra heavy-duty re-tips cost \$20.00\* (we use the same tip alloy as the original tip was made from but the re-tip is laser-weld reinforced to be even stronger than the original). Re-tipping of most other non-Razertip® pens cost \$8.00\*. All re-tipping fees *include applicable tax and return shipping by standard mail*. And we stand behind the new tip with a full, *unconditional* 6 month warranty that covers everything including your satisfaction. You'll get two day in-shop turnaround and a warranty that's better than the new pen had. When returning pens for re-tipping, please return only the pen. Don't send any grips, storage tubes, or anything else. If it can be removed from the pen, remove it before mailing. Canada Post charges only \$1.25 for a package under 2cm thick, but they want a fortune (often over \$9.00) for packages over 2cm thick, so we may not return clear storage tubes or bulkier items unless you are willing to pay the additional shipping charges. Please contact us if you have any questions.

\*Cost for Canada and US only. Additional shipping charges apply for international service. Call for details.

# Razertip® Pen Features

## Laser-welded tips

- ▶ Less stress in manufacturing means that the industry's longest lasting tips will now last even longer!
- ▶ Every tip is laser-welded into every Razertip® pen.

## Front Ventilation Ports

- ▶ No hot air trapped inside.
- ▶ Less contact between tip posts and pen body for cooler operation.
- ▶ Ceramic front plug (HD pens) and polymer plug (Standard pens)

## Corrugated Front Pen Body

- ▶ Beneath our comfortable foam grip lies our exclusive corrugated pen barrel, with more surface area for better cooling
- ▶ Less direct contact between the pen body and the foam grip also means cooler operation.

## Comfortable Foam Grips

- ▶ Keeps your fingers comfortable while allowing for superb control.

## Mid-Body Ventilation Slots

- ▶ That hot air has to go somewhere. Slots are strategically placed to not interfere with comfortable operation.

## Advanced Polymer Construction

- ▶ Using the most advanced temperature resistant resins available today, this pen is built to provide years of dependable service.

## Tapered Rear Pen Body

- ▶ They are all about quality and comfort. Never before has this much design and engineering gone into woodburning tools.

## Rear Ventilation Slots (HD only)

- ▶ HD and BPH pens have additional ventilation at the very back of the pen for the coolest operation ever!

*Pens shown actual size.*

### Warranty information

We're proud of each and every item we make, and we stand behind them with the best warranty in the industry: our exclusive *Unconditional Warranty*. If anything (*and we mean anything*) goes wrong, for any reason, with your Razertip® or Razaire™ product in the warranty period, we will repair or replace it at no charge.

**Razertip® power supplies:** 3 years

**Razertip® pens, cords and accessories (including fixed tips):** 1 year

**Razertip® Interchangeable tips:** 3 months

**Razaire 530™ Dust Collector:** 5 years (fan); 10 years (cabinet and electronics)

**Razaire™ Accessories:** 1 year

# Razertip® Pens (All pens and tips shown actual size)



#BPH Binding-post Interchangeable-tip Pen is the most versatile pen available. Great for those who want to make their own tips or for those rarely-used-but-still-important tips. Every pyrographer should have at least one!

**Versatile:** Make your own tips from almost any heating wire! Accepts tip wire from 16-22 ga. as well as all Razertip® tips. You can even mount two tips in the head at the same time for double-line burning (HD cord recommended; higher heat setting required).

**Dependable:** Stainless-steel binding-post screws hold your tip wire securely against a double-slotted stainless-steel nut that is easily tightened with a small slot screwdriver. The screw can easily be removed for cleaning.

**Comfortable:** The binding-post screws and nuts on this pen act as an effective heatsink, slowing the transfer of heat from the tip into the pen body. Made with the same pen body as our HD pens, the BPH is cooler on your fingers than any other interchangeable-tip handpiece, and it's built to last a lifetime.

Supplied with basic "V" loop tip and 3" lengths of HD, Standard and Light Duty tip wire. # BPH \$32.50

All Razertip® pens have a well-earned reputation for:

**Dependability:** Both Standard and HD pens are built to last a lifetime and provide dependable service. Should you ever wear out, damage, or even stop using a particular tip shape, your tip can be factory-replaced quickly and economically (see [page 107](#)).

**Comfort:** These pens operate up to 5 times cooler than other pens. For high-heat users, Razertip® pen bodies will cool off much quicker than any others. You won't find a more comfortable pen anywhere!



**Standard Fixed-tip Pens:** Available with your choice of hundreds of different tip types, Razertip® pens have set the standard worldwide. Our Standard pens are the smallest, most comfortable pens made today. They are ideal for any application where fine detail is desirable. For pricing and availability, see [pages 110-130](#).



**Heavy-Duty Fixed-tip Pens:** With a larger pen body than our Standard pens, HD pens are built for maximum durability. They have heavier connector posts and heavier tips. HD pens require a higher heat setting than most Standard pens and are best used with a heavy-duty (HD) cord. While still capable of very fine detail, they are ideal for applications where the flat side of the tip is used (shading, feather shaft-making, etc.) or in schools or clubs where inexperienced users can be hard on equipment. For pricing and availability see [pages 110-130](#).

**FAQ:** I am currently using a different brand of woodburning tool. Can Razertip® pens be adapted to my burner?

**A):** Yes! We make adapter cords that let you use our pens on virtually any hot-wire burner power supply ([page 105](#)).

**FAQ:** Will Razertip® pens work the same on my burner as on a Razertip® burner?

**A):** That depends on your needs and the specific burner you are using. Razertip® pens give the fullest heat range and most stable temperatures when used on Razertip® burners. Some non-Razertip® burners may still burn too hot at their lowest setting while others may cause Razertip® pen bodies to heat up prematurely, but all hot-wire type burners will make the tip hot. Contact us for more specific information on your burner.

**FAQ:** Can I use my old non-Razertip® pens on a Razertip® power supply?

**A):** Most other pens will work fine on a Razertip® power supply. One possible exception: larger tips require a higher operating voltage to heat them fully, so some of the larger Detail Master tips may not heat fully or recover heat very quickly. As with any special application, if you are not sure, please contact us.

# Razertip® Tips

Razertip® offers over 860 different tip and pen shapes and styles, plus custom tips. With so many to choose from we realize that selecting the right tip may be a bit of a challenge. We've grouped tips together according to their most common uses (see tip index on [page 131](#) to see the groupings). If you're not sure which tip or pen is best for your needs, please drop us a line or give us a call and we will help you pick just the right tool.

## Heavy-Duty (HD) vs. Standard Tips

Generally speaking, standard tips and standard fixed-tip pens are your best choice for fine detail work. They recover their heat more quickly than HD pens and tips and most people find the standard pens more comfortable to hold.

Heavy-duty pens and tips are your best choice for shading and applications where more "flat" pressure will be placed on the tip or where the tip will be used for cutting. HD pens and tips also will stand up better to harder use. For this reason they tend to be more popular with schools.

## Fixed-tip vs. Interchangeable

For the most part our advice is to use fixed-tip pens for those tip shapes that you will use a lot. Consider getting one or two #BPH interchangeable-tip pens for lesser-used or home-made tips. BPH pens have also proven very popular with Feather Former™ and Scale Tips.

Fixed-tip pens allow you to work with your fingers closer to your work surface, giving you better control over fine work. The laser-welded tip is usually more rigid than in a BPH pen - again - better control. Fixed-tip pens are absolutely essential when cutting any material, especially plastics or anything that melts. Melted material can get into contact areas on BPH pens and cause the tip to stop heating.

All of our pens are relatively cool to operate, but BPH pens are generally the coolest-operating pens available. If you have very sensitive fingers or if you work at high heat settings you may find the BPH pens to be your best choice. One word of advice, however - if you decide on BPH pens and are planning on changing tips, be sure to buy at least 2 pens because changing tips on a hot pen is no fun (also if you have 2 pens you won't need to change tips as often).

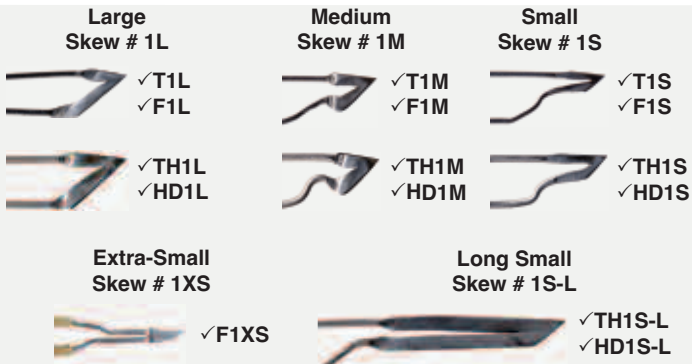
## Sharp Tips for Fine Lines (pages 110-113)

All tips shown actual size

All "sharp" tips are supplied "Razer"-sharp and are capable of burning up to 120 lines per inch right out of the package. Different tip shapes have somewhat different applications, but all sharp tips are ideally suited for fine detail work such as feathers or hair on carved or flat surfaces. Some sharp tips are also used for cutting plastics, paper, fabric, gourds, leather and thin wood.

### Skew Tips, Traditional (Series 1)

Very versatile tips. General use tip for pyrography, cutting and fine detail. #1L is often supplied with new burners. #1S-L is used for cutting gourds as well as detail work and long reach.



### Availability and Price Key:

- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*

# Sharp Tips for Fine Lines (continued)...

## Skew Tips, Pointed (Series 13)

Medium skew with a sharper angle than a standard skew for those who prefer a more pointed tip. For general fine detailing of feathers and hair.

### Medium Pointed Skew # 13M



- ✓T13M
- ✓F13M
- ✓TH13M
- ✓HD13M

All Tips Shown Actual Size.

## Skew Tips, Flat-angle (Series 4)

General detail work, used in much the same way as Traditional Skew (Series 1) tips, but for those who prefer a flatter angle to the tip end. Ideal for situations where it is necessary to work at or near right angles to the work surface.

### Large Flat Skew # 4L



- ✓T4L
- ✓F4L
- ✓TH4L
- ✓HD4L

### Medium Flat Skew # 4M



- ✓T4M
- ✓F4M
- ✓TH4M
- ✓HD4M

### Small Flat Skew # 4S



- ✓T4S
- ✓F4S
- ✓TH4S
- ✓HD4S

## Skew Tips, Round-ended (Series 7)

General detail work. Great for fine detail on feathers, hair, or sculpted surfaces. Works very well on concave surfaces, like the low areas on "bumped" feathers. Popular with more advanced bird and animal carvers.

### Large Round Skew # 7L



- ✓T7L
- ✓F7L
- ✓TH7L
- ✓HD7L

### Medium Round Skew # 7M



- ✓T7M
- ✓F7M
- ✓TH7M
- ✓HD7M

### Small Round Skew # 7S



- ✓T7S
- ✓F7S
- ✓TH7S
- ✓HD7S

### Extra-Small Round Skew # 7XS



- ✓F7XS

## Round Tips (Series 2)

General fine detail work as well as detail on concave and uneven surfaces. Also popular for delicate pyrography shading.

### Large Round # 2L



- ✓T2L
- ✓F2L
- ✓TH2L
- ✓HD2L

### Medium Round # 2M



- ✓T2M
- ✓F2M
- ✓TH2M
- ✓HD2M

### Med/Small Round # 2M-S



- ✓T2M-S
- ✓F2M-S
- ✓TH2M-S
- ✓HD2M-S

### Small (or Tight) Round # 2S



- ✓T2S
- ✓F2S
- ✓TH2S
- ✓HD2S

### Modified Tight Round # 2A



- ✓T2A
- ✓F2A
- ✓TH2A
- ✓HD2A

### Extended Tight Round # 2B



- ✓T2B
- ✓F2B
- ✓TH2B
- ✓HD2B

### Extra-Small Round # 2XS











- ✓F2XS

# Sharp Tips for Fine Lines (continued)...

## Spear Tips (Series 5)

Fine or extremely fine detail work. Excels at working in confined spaces and for delicate undercutting. Spear tips are also popular for general pyrography, wood-turning and gourd work. Large Heavy-duty Spear can be used for detail but is also very popular for cutting.





Our special extra-long spear pens and curved spear pens will only get hot at the very tip, not along their entire length. This allows you to reach into deep spaces without fear of burning your entry points.

Large Spear # 5L	Medium Spear # 5M	Small Spear # 5S
 ✓T5L ✓F5L	 ✓T5M ✓F5M	 ✓T5S ✓F5S
 ✓TH5L ✓HD5L	 ✓TH5M ✓HD5M	 ✓TH5S ✓HD5S
<b>Extra-Small Spear # 5XS</b>		 ✓F5XS
<b>2" Special Extra-long Spear # 5X2</b>		
		✓F5X2 \$39.50
<b>3" Special Extra-long Spear # 5X3</b>		
		✓F5X3 \$39.50

**Remember - every Razertip® pen carries our exclusive 1 year *unconditional* warranty.**

## Spear Tips, Curved (Series 12)

A Razertip® exclusive! Curved spear tips allow you to reach into areas otherwise unreachable. The point of the tip overhangs the pen barrel, allowing the hot point to contact the surface even in very tight areas. Sliding the foam grip back on the pen will extend your reach. Unbeatable for reaching into undercuts and other hard-to-access places. Can also be used for general fine detail. The #12XS is the finest tip available, capable of extremely fine marks and dots.

Large Curved Spear # 12L	Small Curved Spear # 12S
 ✓T12L ✓F12L	 ✓T12S ✓F12S
<b>Extra-Small Curved Spear # 12XS</b>	
 ✓F12XS	
<b>2" Special Extra-long Curved Spear # 12SX2</b>	
	
✓F12SX2 \$39.50	

*All Tips Shown Actual Size.*

### Availability and Price Key:

- ✓T(#)= Standard tip only \$6.00
- ✓TH(#)= Heavy-duty tip only \$6.25
- ✓F(#)= Fixed-tip Standard Pen \$28.50
- ✓HD(#)= Fixed-tip Heavy-duty Pen \$32.50

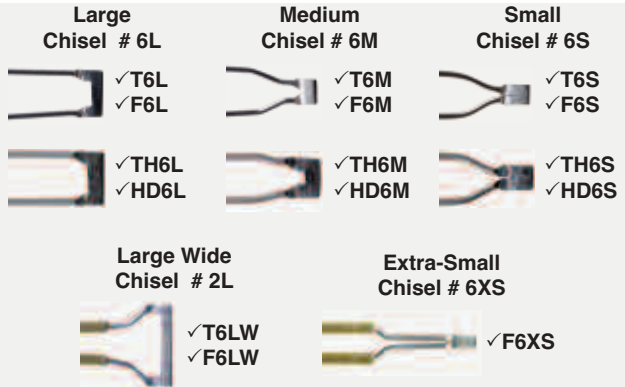
*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*



# Sharp Tips for Fine Lines (continued)...

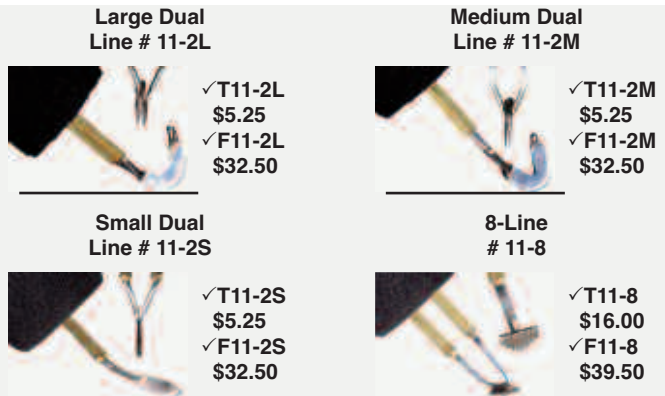
## Chisel Tips (Series 6)

Used for general fine detailing and repetitive lines and markings. Larger chisel tips can also be bent for repetitive curved "stamped" shapes (see [page 122](#) for Stamping tips).



## Multi-Line Tips (Series 11)

Burn multiple lines approximately 1/32" apart. Available in 2-line and 8-line configurations. Speeds up fine detailing of hair and feathers (see Feather Formers™ on [pages 128-130](#) for more multi-line options). HD cord is recommended for the 8-line tip.



All Tips Shown Actual Size.

## Knife Tips (Series 14)

General detail in pyrography, gourds, hair, or feathers. The rounded heel can be very helpful when working on flat surfaces and is preferred by some artists. Cheryl Dow's books recommend the #14S as one of her most useful tip shapes.

The #14D Blunt Heel knife has a sharp point and a blunt heel. Allows a gradual widening of line, depending on the angle used.



# Sharp Tips for Wide Detail Lines (pages 114 & 115)

"Wide-line" sharp tips are used mainly for feather and hair detail. They don't burn as fine as the fine-line sharp tips, and tend to give a shallower texture. This is the style of texturing preferred by many top carvers including Larry Barth and Pat Godin.

## Coarse Detail Tips (Series 17)

Used in much the same way as Series 7 Round Skew tips, but yielding a wider detail line. HD versions yield a slightly thicker line than standard versions.

### Large Coarse Detail # 17L



### Medium Coarse Detail # 17M



### Small Coarse Detail # 17S



## Wide-Groove Detail Tips (Series 71)

Even wider than Series 17 tips, these tips have a steel blade welded onto the end. They can burn a groove up to 3/32" wide. They take a bit longer to heat up but once heated, they hold their heat better than a wire tip. They are also much stronger than a plain wire tip. The 6mm tip holds heat a bit better than the 4mm but is not quite as nimble. Use an HD cord with all Series 71 tips for best results.

### 4mm Wide-Groove Detail # 71.04



### 6mm Wide-Groove Detail # 71.06



## Larry Barth Detail Tips (Series 36)

Designed by multi-time World-champion Larry Barth, these tips are made to his exact specifications. Larry uses these tips for virtually every aspect of burning detail, including his feather shafts. The sharpened angle of the blade is similar to that of a tapered texturing stone, allowing for easy transitions from burned texture to stoned texture.

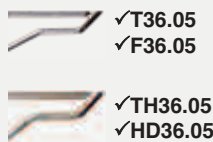
### 9mm (Large) Barth Detail # 36.09



### 7mm (Med.) Barth Detail # 36.07



### 5mm (Small) Barth Detail # 36.05



### 3mm (X-Sm) Barth Detail # 36.03



## Michael Hosaluk Wide-Groove Medium Spear (Series 5)

Designed by renowned wood turner Michael Hosaluk. Mike uses this tip to burn defining lines on his wood turnings. Its unique design gives a heavier line and gives the tip more strength than thinner tips.

### Medium Hosaluk Spear # 5MH



All Tips Shown Actual Size.

### Availability and Price Key:

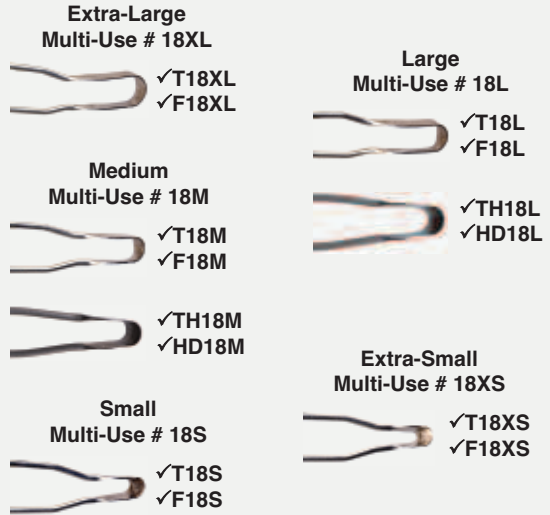
- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.

## Sharp Tips for Wide Detail Lines (continued)...

### Multi-Use Tips (Series 18)

These Multi-Use tips, all unique to Razertip®, are probably the most versatile tips in the history of pyrography. They can all be used for fine feather and hair detail, wide-groove detailing, and carving or relieving feathers and shafts. They can also be used for scaling, shading, and calligraphy. They are the only tip that can simulate “stoning” effects as well as “rippling” on feathers. Their unique shape makes them very tough and durable. They are available in 5 sizes - from extra-small to extra-large. Medium and large are the most popular. The small version is very useful for smaller songbirds around the size of a chickadee. The extra-small version is great for miniatures and fine detail work.



## Split-Making Tips

Designed for making subtle splits in feathers. They can take a bit of practice but the results can be very impressive.

**Mueller Split Maker (Series 35)** Designed by World Champion Keith Mueller and exclusive to Razertip®, this tip allows for subtle and varying splits to be made quickly and easily. Made like a miniature boat hull, you use the end for a finer groove and gradually lay the tip down while sliding it along the feather surface, giving a gradually widening and smoothing split, which is easily accented or enhanced when you paint.



All Tips Shown Actual Size.



### Simkin Split Makers (Series 34)

Designed by World Champion Wayne Simkin and exclusive to Razertip®, these tips allow you to make gently-curved splits of almost any length. Available individually as left or right-curved tips; also available in a set of either 2 tips or 2 pens.



✓TH34.18LH \$8.50  
 ✓HD34.18LH \$34.75

✓TH34.18RH \$8.50  
 ✓HD34.18RH \$34.75

**Set of 2 “Simkin” Split tips (one each Left and Right)**  
 # SET2-TH34.18 \$15.50

**Set of 2 “Simkin” Split pens (one each Left and Right)**  
 # SET2-HD34.18 \$62.75

## Cutting Tips

While many of our tips will cut, these tips excel at cutting. Use on fabrics, plastics, thin wood and leather, paper, stencils and gourds. For strength, reliability and longevity, we recommend using fixed-tip pens for cutting, especially when cutting materials that melt.

### Large Skew # 1L



✓TH1L  
✓HD1L

Our most popular cutting tip. Great for general cutting and trimming of plastics, thin wood, leather, stencils, fabric and paper.

### Long Small Skew # 1S-L



✓TH1S-L  
✓HD1S-L

Most often used for cutting and detailing gourds, but will also work for cutting other materials as well as for fine detail work.

### Large Spear # 5L



✓TH5L  
✓HD5L

Can be used for most of the same cutting and trimming applications as the Skew tip. Also particularly useful for cutting gourds.

### Gourd Cutter # 9G.17



✓T9G.17  
✓F9G.17

Tempered tip is great for piercing/cutting gourds. Use at fairly high heat with a "sawing" action.

## Special-purpose Tips

### Lamillae Making Tips (Series 3)

Specialized tip for forming the lamillae, or tooth-like serrations on duck bills. Has a triangular cross-section; the pointed end is pushed into the underside of the bill repeatedly, leaving realistic-looking lamillae. HD cord recommended.



✓TH3  
✓HD3

### Copper Spear Shader (Series 93)

In addition to shading and general pyrography, this tip can also be used for light soldering. HD cord recommended.



✓T93M  
✓F93M

### Burnishing Tips (Series 8)

Useful for burnishing bird bills and hooves on animal carvings. Can also be used as a very strong general pyrography tip. Excellent on leather. HD cord recommended.

Burnishing Tips # 8



✓T8  
✓F8



✓TH8  
✓HD8

## Bead-Maker Tips

Used to "push" material down, leaving a raised "bead". Popular with gourd artists and wood turners.

### Bead Makers (Series 98)

Used to form round raised "beads" on any surface, but very popular on gourds and wood turnings. Each depression forms a portion of the bead radius. HD cord recommended.

#### 3.0mm Bead Maker



✓T98.030  
✓F98.030

#### 4.7mm Bead Maker



✓T98.047  
✓F98.047

#### 6.0mm Bead Maker



✓T98.060  
✓F98.060

Individual Beading Tips \$9.25 ea. Pens \$31.90 ea.  
Set of 3 Beading Tips # SET3-T98 \$24.95/set  
Set of 3 Beading Pens # SET3-F98 \$85.50/set

All Tips Shown Actual Size.

### Availability and Price Key:

- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*

# Shaft-Making (or Quill-Making) Tips

Most commonly used for "raising" feather shafts or for layering wing and tail feathers on bird carvings. They have a square cross-sectional edge that won't "skate" when following a long line, and they leave a nice wide ramp into the raised area, reducing or eliminating the need to sand.

## Spear-Shaped Shaft-Making Tips (Series 5)

Cam designed these tips back in 1991 while working on a life-size flying Magpie. He used this style of tip to raise all of the tail and flight feather shafts. Cam prefers this style of tip because it is ambidextrous, and the fine point allows him to get into corners that the Guge-style tip won't.

### Medium Spear Shaft Tip # 5MC



✓TH5MC  
✓HD5MC

### Small Spear Shaft Tip # 5SC



✓TH5SC  
✓HD5SC



Series 5

## Bob Guge Style Shaft-Making Tips (Series 15.BG)

This is the style of shaft-making tip preferred by Bob Guge. We offer two sizes (large and small) in either left or right-handed versions. All are available in standard or heavy-duty pens or tips. For most users we recommend the HD pens and tips as they will withstand more sideways pressure without bending.



Series 15.BG

### Large Skew Shaft Tip (Right-hand) # 15L.BG

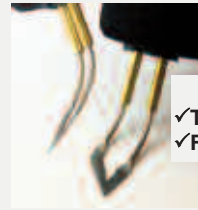


Standard  
✓T15L.BG  
✓F15L.BG



Heavy-Duty  
✓TH15L.BG  
✓HD15L.BG

### Large Skew Shaft Tip (Left-hand) # 15LH.BG



Standard  
✓T15LH.BG  
✓F15LH.BG



Heavy-Duty  
✓TH15LH.BG  
✓HD15LH.BG

### Small Skew Shaft Tip (Right-hand) # 15S.BG



Standard  
✓T15S.BG  
✓F15S.BG



Heavy-Duty  
✓TH15S.BG  
✓HD15S.BG

### Small Skew Shaft Tip (Left-hand) # 15SH.BG



Standard  
✓T15SH.BG  
✓F15SH.BG



Heavy-Duty  
✓TH15SH.BG  
✓HD15SH.BG

All Tips Shown Actual Size.

# Shaft-Making (or Quill-Making) Tips (continued)

## Traditional Skew-Shaped Shaft-Making Tips (Series 15)

The original style of shaft (or quill) making tip is still preferred by many artists. Also popular as a shading tip.

### Large Skew Shaft Tip (Right-hand)# 15L



Standard  
✓T15L  
✓F15L



Heavy-Duty  
✓TH15L  
✓HD15L

### Large Skew Shaft Tip (Left-hand)# 15LH



Standard  
✓T15LH  
✓F15LH



Heavy-Duty  
✓TH15LH  
✓HD15LH

## Shading Tips (pages 118 & 119)

As their name suggests, these tips are used primarily for shading on all surfaces. Shaders have slightly rounded edges so they won't dig into your work surface. Generally speaking, the spear and spoon shaders are the best ones to start with. Other tip shapes would be selected based on your preference and specific needs. HD cord recommended with all shading tips.

### Round Shading Tips (Series 2)

Popular for general shading applications, round shaders excel at shading where outer margins are concave (like the inside of a circle or eye). Also popular for shading using circular motions on the surface.

#### Large Round Shader # 2LC



✓TH2LC  
✓HD2LC

#### Medium Round Shader # 2MC



✓TH2MC  
✓HD2MC

#### Small Round Shader # 2SC

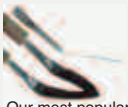


✓TH2SC  
✓HD2SC

### Spear Shading Tips (Series 5)

One of our most popular shading tip styles. Spear shaders are useful for most shading techniques from straight lines to points and inside sharp corners. As with all shaders the edge can also be used for dark, crisp lines.

#### Medium Spear Shader # 5MP



✓TH5MP  
✓HD5MP

#### Medium/Small Spear Shader # 5MSP



✓TH5MSP  
✓HD5MSP

#### Small Spear Shader # 5SP



✓TH5SP  
✓HD5SP

Our most popular spear shader

#### Small Long Spear Shader # 5SP-L



✓TH5SP-L  
✓HD5SP-L

All Tips Shown Actual Size.

#### Availability and Price Key:

- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*

## Shading Tips (continued)

### Chisel Shading Tips (Series 6)

Useful for general shading applications. Also used for crisp, straight shaded edges as well as 90 degree corners, simulating shingles, etc.

#### Large Chisel Shader # 6LC



✓TH6LC  
✓HD6LC

#### Medium Chisel Shader # 6MC



✓TH6MC  
✓HD6MC

#### Small Chisel Shader # 6SC



✓TH6SC  
✓HD6SC

### 45-Degree Shading Tips (Series 16)

A very useful general-purpose shader. Recommended in several popular pyrography books and articles.

#### Large 45-Degree Shader # 16L



✓TH16L  
✓HD16L

#### Medium 45-Degree Shader # 16M



✓TH16M  
✓HD16M

#### Small 45-Degree Shader # 16S



✓TH16S  
✓HD16S

### Spoon Shading Tips (Series 30)

One of our most popular and versatile shading tips. They can be used for a wide variety of shading applications and techniques on all surfaces (flat, concave or convex). Also popular for working with wax.

#### Medium Spoon Shader # 30M



✓TH30M  
✓HD30M

Our most popular shader

#### Small Spoon Shader # 30S



✓TH30S  
✓HD30S

### Stainless Steel Transfer-Shader Tips (Series 73)

Steel blade is great for general shading. Also excellent for heat transfer of photocopied patterns onto almost any surface (wood, gourds, paper....). 10mm Transfer/shader with larger blade is best suited for transfer work, but can also be used to shade (takes a bit longer to heat than the 7mm tip).

#### 7mm Transfer Shader # 73.07



✓T73.07  
✓F73.07

#### 10mm Transfer Shader # 73.10



✓T73.10  
✓F73.10

*All Tips Shown Actual Size.*

### Copper Spear Shader (Series 93)

In addition to shading and general pyrography, this tip can also be used for light soldering.



✓T93M  
✓F93M

#### A Note about design, reliability and service:

We believe that a good tool should do exactly what it claims and do it well. As the primary designer of all Razertip® and Razaire™ tools, I design them first for myself. As a professional carver for over 30 years, I have a pretty good idea what I want in a tool. If I wouldn't buy it myself, I wouldn't expect you to. For that reason, we want to offer you exactly the type of service I expect from my favorite suppliers and tool makers. You have a full month to test drive *anything* we sell. If it's not what you expected, you can return it for exchange or for a full refund. If you have any suggestions that would improve our tools for your application, please, let us know. And don't ever throw out a broken pen or burner - they are almost always worth repairing.

We continue with our commitment to make the best pyrographic tools in the world and to provide the best customer service possible. Please do not hesitate to contact me directly if you have any questions, comments, concerns, or suggestions.

Cam Merkle, President, Razertip Industries Inc.

# Writing & Stylus Tips (pages 120 & 121)

Razertip's selection of writing and stylus tips is second to none. With ball stylus tips from 1/64" to 7/32" as well as wire tips in several different shapes and point sizes, we're sure to have the tip you need.

## Chisel Calligraphy Tips (Series 6)

Very similar to our small chisel tip, the 6SB has had the knife edge buffed so the tip will be less prone to digging into your work surface from any angle.

### Small Calligraphy Chisel # 6SB



*All Tips Shown Actual Size.*

## Brass Calligraphy Tips (Series 68)

The brass sleeve on these tips takes a bit longer to heat up but will maintain its heat more consistently than a plain wire tip. Very smooth to use and not at all prone to "digging in".

### Large Brass Calligraphy # 68L



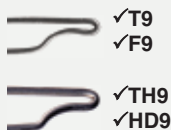
### Medium Brass Calligraphy # 68M



## Writing Tips (Series 9)

Our original writing tips. They heat fairly quickly and recover their heat well. Good for general writing, signing and drawing.

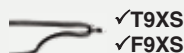
### Writing Tip # 9



### Small Writing Tip # 9S



### Extra-Small Writing Tip # 9XS



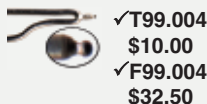
### Pointed Writing Tip # 9P



## Ball Stylus Tips (Series 99; 0.4mm-2.3mm)

Chrome steel balls welded onto the end of the tip gives excellent heat retention (better as the ball is bigger). The polished ball ends are buttery-smooth to write and draw with. Line widths are consistent and repeatable in all directions. Our 1/64" ball tip is the smallest in the world.

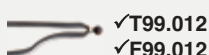
### .4mm (1/64") Ball Stylus Tip # 99.004



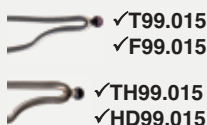
### .8mm (1/32") Ball Stylus Tip # 99.008



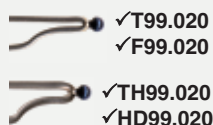
### 1.2mm (3/64") Ball Stylus Tip # 99.012



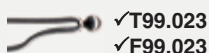
### 1.5mm (1/16") Ball Stylus Tip # 99.015



### 2.0mm (5/64") Ball Stylus Tip # 99.020



### 2.3mm (3/32") Ball Stylus Tip # 99.023



### Availability and Price Key:

- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*



## Writing & Stylus Tips (continued)

### Ball Stylus Tips (Series 99; 3.0mm-5.5mm)

Nickel-plated brass balls with tip wire passing through the center of the ball gives very uniform heat. These tips take a while to heat up (the 5.5mm ball may take up to 90 seconds), but they hold their heat very well and are a joy to use. Great for writing thicker lines as well as shading and dimpling backgrounds.

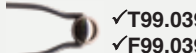
**3.0mm (1/8") Ball  
Stylus Tip # 99.030**



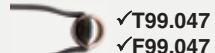
**3.9mm (5/32") Ball  
Stylus Tip # 99.039**



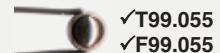
**3.9mm (5/32") Ball  
Stylus Tip # 99.039**



**4.7mm (3/16") Ball  
Stylus Tip # 99.047**



**5.5mm (7/32") Ball  
Stylus Tip # 99.055**



## Wax Tips

Commonly used for working with jeweller's wax. Designed to be used at low temperature settings. Standard cord is recommended. "PK" Series tips are too weak to use on materials other than wax.

**Akers Point # 32M**



✓TH32M  
✓HD32M

**Long Waxing Point # PK1**



✓HDPK1 \$42.25

**Long Waxing Point # PK2**



✓HDPK2 \$42.25

**Long Waxing Point # PK3**



✓HDPK3 \$42.25

*All Tips Shown Actual Size.*

## Wax Writing Tips

Used for writing and drawing with beeswax when making [Pysanky \(Ukrainian Easter eggs\)](#). Designed to be used at low temperature settings. Different tube sizes for varying line widths. Supplied with cleaning needle.

**Fine Wax Writer  
(22 ga. tube) # 79.22**



✓T79.22 \$6.25  
✓F79.22 \$32.50

**Small Wax Writer  
(20 ga. tube) # 79.20**



✓T79.20 \$6.25  
✓F79.20 \$32.50

**Medium Wax Writer  
(18 ga. tube) # 79.18**



✓T79.18 \$6.25  
✓F79.18 \$32.50

**Large Wax Writer  
(16 ga. tube) # 79.16**



✓T79.16 \$6.25  
✓F79.16 \$32.50

## Stamping (Branding) Tips

Great for repetitive designs on all surfaces.

### "V" Branding Tips (Series 66)

Used to "brand" or stamp 90 degree "V" shapes into all surfaces. Stamping corner-to-corner will give a square shape. Also excellent for "herringbone" patterns.

#### 3.0mm "V" Brand # 66.030R



#### 6.5mm "V" Brand # 66.065R



#### 4.0mm "V" Brand # 66.040R



#### 12mm "V" Brand # 66.120R



### Circle Stamping Tips (Series 92)

Used to "brand" or stamp small circles into all surfaces. Copper tube is crimped on to the tip. Allow extra time for heating up and cooling down. HD cord recommended.

#### 2.1mm Circle Stamping Tip # 92.21



#### 3.0mm Circle Stamping Tip # 92.30



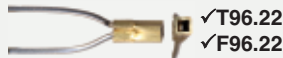
#### 3.8mm Circle Stamping Tip # 92.38



### Square Stamping Tips (Series 96)

Used in the same way as the circle stampers (above). HD cord recommended.

#### 2.2mm Square Stamping Tip # 96.22



#### 3.0mm Square Stamping Tip # 96.30



## General Purpose Tips

Excellent for general, all-around use.

### General Pyrography Tips (Series 10)

For writing, shading, small scale marks, burnishing, and burning 2 parallel lines approximately 1/16" apart. Very durable.

#### Large General Pyrography Tip # 10L



#### Regular General Pyrography Tip # 10R



All Tips Shown Actual Size.

**Remember - every Razertip® product carries our exclusive unconditional warranty.**

#### Availability and Price Key:

- ✓T(#) = Standard tip only \$6.00
- ✓TH(#) = Heavy-duty tip only \$6.25
- ✓F(#) = Fixed-tip Standard Pen \$28.50
- ✓HD(#) = Fixed-tip Heavy-duty Pen \$32.50

*Note: Certain tips and pens are priced differently from prices shown at left. The price for each of these items will be listed beside the item.*

## Steel Blank Tips

"Do-it-yourself" tip blanks with carbon steel welded on to the end can be used "as-is", or you can custom grind and polish them to desired shape and profile. The original idea for these tips came to us from world-champion carvers Clark Schreibeis and Jeff Compton. They grind the ends of these blanks to impart very fine texture to coral, among other things. Ideal for custom stamps, brands or whatever your imagination allows. They can also be made into superb custom calligraphy tips! "T" Tips \$6.00 ea "F" Pens \$28.50 ea.

### Square Steel Skew Blanks (Series 70)

Square steel blank is welded to a skew tip on flat side of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T70L.06  
✓F70L.06



Medium  
3/32" x 6mm  
✓T70M.06  
✓F70M.06



Small  
1/16" x 6mm  
✓T70S.06  
✓F70S.06

### Diamond Steel Skew Blanks (Series 71)

Square steel blank is welded to a skew tip on corner of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T71L.06  
✓F71L.06



Medium  
3/32" x 6mm  
✓T71M.06  
✓F71M.06



Small  
1/16" x 6mm  
✓T71S.06  
✓F71S.06

### Round Steel Skew Blanks (Series 72)

Round steel blank is welded to a skew tip along length of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T72L.06  
✓F72L.06



Medium  
3/32" x 6mm  
✓T72M.06  
✓F72M.06



Small  
1/16" x 6mm  
✓T72S.06  
✓F72S.06

### Square Steel Chisel Blanks (Series 76)

Square steel blank is welded to a chisel tip on flat side of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T76L.06  
✓F76L.06



Medium  
3/32" x 6mm  
✓T76M.06  
✓F76M.06



Small  
1/16" x 6mm  
✓T76S.06  
✓F76S.06

### Diamond Steel Chisel Blanks (Series 75)

Square steel blank is welded to a chisel tip on corner of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T75L.06  
✓F75L.06



Medium  
3/32" x 6mm  
✓T75M.06  
✓F75M.06



Small  
1/16" x 6mm  
✓T75S.06  
✓F75S.06

### Round Steel Chisel Blanks (Series 74)

Round steel blank is welded to a chisel tip along length of blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T74L.06  
✓F74L.06



Medium  
3/32" x 6mm  
✓T74M.06  
✓F74M.06



Small  
1/16" x 6mm  
✓T74S.06  
✓F74S.06

### Square Steel Long Blanks (Series 78)

Square steel blank is welded to a pointed tip at end of the blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T78L.06  
✓F78L.06



Medium  
3/32" x 6mm  
✓T78M.06  
✓F78M.06



Small  
1/16" x 6mm  
✓T78S.06  
✓F78S.06

### Round Steel Long Blanks (Series 77)

Round steel blank is welded to a pointed tip at end of the blank. HD cord recommended.



Large  
1/8" x 6mm  
✓T77L.06  
✓F77L.06



Medium  
3/32" x 6mm  
✓T77M.06  
✓F77M.06



Small  
1/16" x 6mm  
✓T77S.06  
✓F77S.06

## Tip Wire

This is the high-quality tip wire we use to make all Razer-tips. Use with #BPH Pen.

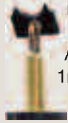
Heavy-Duty Wire (18Ga./ 0.040") 3pcs x 6" ea (18" total) # TW3.1806 \$6.25  
 Standard Wire (20Ga./ 0.032") 3pcs x 6" ea (18" total) # TW3.2006 \$6.25  
 Light Wire (22Ga./ 0.025") 3pcs x 6" ea (18" total) # TW3.2206 \$6.25  
 6-pc. Assortment: 6" x 2ea. of 18, 20 & 22ga (36" total) # TW6.AST \$9.80/set

## Scale Tips (pages 124-126)

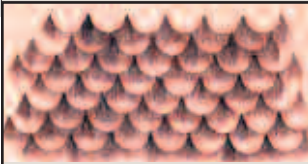
Our selection of scale tips is second to none. We make over 185 different tip shapes and styles, available in your choice of fixed or interchangeable tips. In addition to our stock scale tips listed below we can make custom scale tips for special projects like lizards, snakes or dragons. HD Cord is recommended for all scale tips.

### “Full-Scale” Tips (Series 20)

With each depression, these tips will form a full raised scale. They push down the wood behind the scale, leaving a clean, uniform, raised scale.



Available from  
1mm to 8mm wide.



Scales formed with # 20.05R tip.

Tip Width	Price	Reg. Curve #	Deep Curve #	Flat Curve #
1mm	Tip \$9.25	T20.01R	T20.01D	T20.01F
	Pen \$31.90	F20.01R	F20.01D	F20.01F
2mm	Tip \$9.25	T20.02R	T20.02D	T20.02F
	Pen \$31.90	F20.02R	F20.02D	F20.02F
3mm	Tip \$9.25	T20.03R	T20.03D	T20.03F
	Pen \$31.90	F20.03R	F20.03D	F20.03F
4mm	Tip \$9.25	T20.04R	T20.04D	T20.04F
	Pen \$31.90	F20.04R	F20.04D	F20.04F
5mm	Tip \$9.25	T20.05R	T20.05D	T20.05F
	Pen \$31.90	F20.05R	F20.05D	F20.05F
6mm	Tip \$9.25	T20.06R	T20.06D	T20.06F
	Pen \$31.90	F20.06R	F20.06D	F20.06F
7mm	Tip \$10.80	T20.07R	T20.07D	T20.07F
	Pen \$33.50	F20.07R	F20.07D	F20.07F
8mm	Tip \$10.80	T20.08R	T20.08D	T20.08F
	Pen \$33.50	F20.08R	F20.08D	F20.08F

Series 20 tips in sizes up to and including 6mm Regular curve, 5mm Deep curve and 8mm Flat curve have a steel blade welded onto the tip as shown above. Larger tips are formed completely from tip wire and are not as strong as the smaller steel-blade tips. HD cord recommended.

All Tips Shown Actual Size.

### “Half-Scale” Tips (Series 21)

With each depression, the half-scale tip forms two halves of a raised scale. This design allows for some variation in scale size as shown below.

Available from 2mm to 10mm wide.



Scales formed with # 21.09R tip.

Tip Width	Price	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip \$9.25	T21.02R	T21.02D	T21.02F
	Pen \$31.90	F21.02R	F21.02D	F21.02F
3mm	Tip \$9.25	T21.03R	T21.03D	T21.03F
	Pen \$31.90	F21.03R	F21.03D	F21.03F
4mm	Tip \$9.25	T21.04R	T21.04D	T21.04F
	Pen \$31.90	F21.04R	F21.04D	F21.04F
5mm	Tip \$9.25	T21.05R	T21.05D	T21.05F
	Pen \$31.90	F21.05R	F21.05D	F21.05F
6mm	Tip \$9.25	T21.06R	T21.06D	T21.06F
	Pen \$31.90	F21.06R	F21.06D	F21.06F
7mm	Tip \$10.80	T21.07R	T21.07D	T21.07F
	Pen \$33.50	F21.07R	F21.07D	F21.07F
8mm	Tip \$10.80	T21.08R	T21.08D	T21.08F
	Pen \$33.50	F21.08R	F21.08D	F21.08F
9mm	Tip \$10.80	T21.09R	T21.09D	T21.09F
	Pen \$33.50	F21.09R	F21.09D	F21.09F
10mm	Tip \$10.80	T21.10R	T21.10D	T21.10F
	Pen \$33.50	F21.10R	F21.10D	F21.10F

Series 21 tips in sizes up to and including 8mm Regular curve, 6mm Deep curve and 8mm Flat curve have a steel blade welded onto the tip. Larger tips are formed completely from tip wire as shown above left. They are not as strong as the smaller steel-blade tips. All scales formed in the illustration to the left were made with a 9mm Regular curve tip. Scale sizes and curves were deliberately varied to illustrate the range of shapes possible from a single tip. Uniform scales are easily achieved too. HD cord recommended.

Regular

Flat

Deep

Tip Curves



Scale curves and shapes vary from one species to another. Razertip scale tips are available with your choice of regular, deep or flat curves to work for most species. Be sure to check your reference before ordering so you get just the right look to your scales.

## Scale Tips (continued)

### “Lateral Line” Tips (Series 25)

Used much like the half-scale tips, these tips have a “tunnel” that leaves a raised rib in the center. Scales are burned in rows, leaving a raised lateral line. Available from 2mm to 10mm wide.



### Price and Availability:

Same as “Half-Scale” Series 21 tips (refer to the price chart on [page 124](#)). To order, substitute #25 in place of the original #21 shown in the chart. *Example:* 3mm Regular curve pen #F25.03R, \$31.90



Upper scales formed with #21.09R.

Lateral line formed with #25.09R.

### “Realistic Full-Scale” Tips (Series 22)

Forms the most accurate scales possible, mimicking the real thing. Requires a bit more concentration; recommended for more advanced users. Custom species-specific tips can also be made (call for details).



Available from 0.5mm to 10mm wide.

Scales formed with # 22.05R tip.



Tip Width	Price	Reg. Curve #	Deep Curve #	Flat Curve #
0.5mm	Tip \$11.30	T22.005R	T22.005D	T22.005F
	Pen \$33.95	F22.005R	F22.005D	F22.005F
1mm	Tip \$11.30	T22.01R	T22.01D	T22.01F
	Pen \$33.95	F22.01R	F22.01D	F22.01F
2mm	Tip \$11.30	T22.02R	T22.02D	T22.02F
	Pen \$33.95	F22.02R	F22.02D	F22.02F
3mm	Tip \$11.30	T22.03R	T22.03D	T22.03F
	Pen \$33.95	F22.03R	F22.03D	F22.03F
4mm	Tip \$11.30	T22.04R	T22.04D	T22.04F
	Pen \$33.95	F22.04R	F22.04D	F22.04F
5mm	Tip \$11.30	T22.05R	T22.05D	T22.05F
	Pen \$33.95	F22.05R	F22.05D	F22.05F
6mm	Tip \$11.30	T22.06R	T22.06D	T22.06F
	Pen \$33.95	F22.06R	F22.06D	F22.06F
7mm	Tip \$13.35	T22.07R	T22.07D	T22.07F
	Pen \$36.00	F22.07R	F22.07D	F22.07F
8mm	Tip \$13.35	T22.08R	T22.08D	T22.08F
	Pen \$36.00	F22.08R	F22.08D	F22.08F
9mm	Tip \$13.35	T22.09R	T22.09D	T22.09F
	Pen \$36.00	F22.09R	F22.09D	F22.09F
10mm	Tip \$13.35	T22.10R	T22.10D	T22.10F
	Pen \$36.00	F22.10R	F22.10D	F22.10F

Realistic Full-Scale Tips all have a steel blade welded onto the tip. Larger sizes will require a higher heat setting and longer heat-up and cool-down time. HD cord recommended.

### “Clark Schreibeis” Scaler (Series 23)

Designed by world-champion fish carver Clark Schreibeis and built exclusively by Razertip®! This tip is more of a “freehand” scale maker, allowing you to form raised scales of any size or shape. It takes a bit of practice to get the hang of this tip, but it is the most versatile freeform scaler you can get.



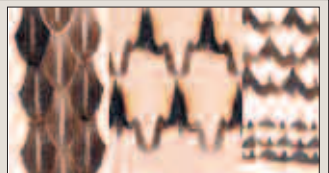
Scales formed with # 23S tip.



✓TH23S \$6.25  
✓HD23S \$32.50

All Tips Shown Actual Size.

**Special shapes, sizes and styles.** Over the years we have made special scale tips for reptiles, snakes and fantasy creatures like dragons. Supply us with a drawing of the scale you want and we'll make just the right tip for you - at the same price as a similar “in-stock” tip. Most custom tips can be supplied as either fixed-tips or interchangeable tips.



## Scale Tips (continued)

### “Sharp Outline” Tips (Series 26)

With each depression, the #26 tip forms a sharp “smile”. The fine line left in the surface makes quick, simple, effective and uniform scale outlines.



Available from 2mm to 14mm wide.



All scales formed with # 26.07R tip.

Tip Width	Price	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip \$8.25	T26.02R	T26.02D	T26.02F
	Pen \$30.90	F26.02R	F26.02D	F26.02F
3mm	Tip \$8.25	T26.03R	T26.03D	T26.03F
	Pen \$30.90	F26.03R	F26.03D	F26.03F
4mm	Tip \$8.25	T26.04R	T26.04D	T26.04F
	Pen \$30.90	F26.04R	F26.04D	F26.04F
5mm	Tip \$8.25	T26.05R	T26.05D	T26.05F
	Pen \$30.90	F26.05R	F26.05D	F26.05F
6mm	Tip \$8.25	T26.06R	T26.06D	T26.06F
	Pen \$30.90	F26.06R	F26.06D	F26.06F
7mm	Tip \$8.25	T26.07R	T26.07D	T26.07F
	Pen \$30.90	F26.07R	F26.07D	F26.07F
8mm	Tip \$8.25	T26.08R	T26.08D	T26.08F
	Pen \$30.90	F26.08R	F26.08D	F26.08F
9mm	Tip \$9.75	T26.09R	T26.09D	T26.09F
	Pen \$32.50	F26.09R	F26.09D	F26.09F
10mm	Tip \$9.75	T26.10R	T26.10D	T26.10F
	Pen \$32.50	F26.10R	F26.10D	F26.10F
11mm	Tip \$9.75	T26.11R	T26.11D	T26.11F
	Pen \$32.50	F26.11R	F26.11D	F26.11F
12mm	Tip \$9.75	T26.12R	T26.12D	T26.12F
	Pen \$32.50	F26.12R	F26.12D	F26.12F
13mm	Tip \$9.75	T26.13R	T26.13D	T26.13F
	Pen \$32.50	F26.13R	F26.13D	F26.13F
14mm	Tip \$9.75	T26.14R	T26.14D	T26.14F
	Pen \$32.50	F26.14R	F26.14D	F26.14F

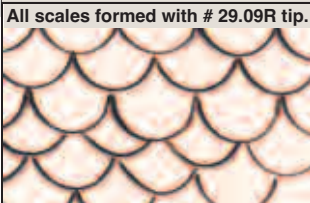
Series 26 tips are all formed from tip wire as shown above (left). They can be used to indicate scales as shown above (left). Leaving a bit of space between each scale when making the first row gives a more realistic scale pattern as shown on the lower half of the illustration above (the same technique works with Series 29 tips, too).

### “Blunt Outline” Tips (Series 29)

With each depression, the #29 tip forms a blunt “smile”. Versatile, allows for slight variations in scale size. Our most durable and versatile scale tip.



Available from 2mm to 14mm wide.



All scales formed with # 29.09R tip.

Tip Width	Price	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip \$6.25	T29.02R	T29.02D	T29.02F
	Pen \$28.80	F29.02R	F29.02D	F29.02F
3mm	Tip \$6.25	T29.03R	T29.03D	T29.03F
	Pen \$28.80	F29.03R	F29.03D	F29.03F
4mm	Tip \$6.25	T29.04R	T29.04D	T29.04F
	Pen \$28.80	F29.04R	F29.04D	F29.04F
5mm	Tip \$6.25	T29.05R	T29.05D	T29.05F
	Pen \$28.80	F29.05R	F29.05D	F29.05F
6mm	Tip \$6.25	T29.06R	T29.06D	T29.06F
	Pen \$28.80	F29.06R	F29.06D	F29.06F
7mm	Tip \$6.25	T29.07R	T29.07D	T29.07F
	Pen \$28.80	F29.07R	F29.07D	F29.07F
8mm	Tip \$6.25	T29.08R	T29.08D	T29.08F
	Pen \$28.80	F29.08R	F29.08D	F29.08F
9mm	Tip \$6.25	T29.09R	T29.09D	T29.09F
	Pen \$28.80	F29.09R	F29.09D	F29.09F
10mm	Tip \$6.25	T29.10R	T29.10D	T29.10F
	Pen \$28.80	F29.10R	F29.10D	F29.10F
11mm	Tip \$6.25	T29.11R	T29.11D	T29.11F
	Pen \$28.80	F29.11R	F29.11D	F29.11F
12mm	Tip \$6.25	T29.12R	T29.12D	T29.12F
	Pen \$28.80	F29.12R	F29.12D	F29.12F
13mm	Tip \$6.25	T29.13R	T29.13D	T29.13F
	Pen \$28.80	F29.13R	F29.13D	F29.13F
14mm	Tip \$6.25	T29.14R	T29.14D	T29.14F
	Pen \$28.80	F29.14R	F29.14D	F29.14F

Series 29 tips are all formed from tip wire as shown above (left). They leave a heavier groove than Series 26 tips, but they have the ability to vary the depth, curve and width of the scale shape. The top two rows (scales, above left) show uniform scale shape/size while the rows below show how variable the shape/size can be if desired.

*All Tips Shown Actual Size.*

Tip sets are a convenient and economical way to try a variety of tip shapes. We have designed these sets for specific users (pyrographers, bird carvers, gourd artists, etc.), so selecting just the right tip assortment could not be easier! All tips will fit in our #BPH interchangeable-tip pen. We highly recommend that you get at least 2 BPH pens; this will make changing tips much easier because you'll never have to change tips in a hot pen.

### Bird Carver's Micro 5-Tip Set

Contains 5 of our smallest fine detail tips (Skew #1S, Round #2S, Spear #5S, Chisel #6S and Round Skew #7S).



Standard Tips (\$30.00 value)  
✓ **SET5BC \$21.60**



Heavy-Duty Tips (\$32.50 value)  
✓ **SETHD5BC \$23.60**

### Bird Carver's 8-Tip Set

Contains 8 of our most popular bird-carver's tips (Small Skew #1S, Medium Round #2M, Flat Skew #4M, Medium Spear #5M, Medium Chisel #6M, Large Round Skew #7L, Burnisher #8 and Writer #9).



Standard Tips (\$48.00 value)  
✓ **SET8 \$32.10**



Heavy-Duty Tips (\$52.00 value)  
✓ **SETHD8 \$35.40**

### Pyrography 5 Tip Set

Contains Shader #TH30M, Writer #T9, Small Round #T2S, Small Spear #T5S and Transfer/ Shader #T73.07.



(\$30.25 value)  
✓ **SET5PY \$21.60**

### Gourd Artist 5 Tip Set

Contains Long Small Skew Cutter #TH1S-L, Gourd Cutter #T9G.17, Small HD Skew #TH1S, Small/Med Spear Shader #TH5MSP and 1/16" Ball Writer #T99.015.



(\$30.50 value)  
✓ **SET5GD \$21.60**

### Ball Tip Sets

Two "ball" tip sets: The small set of 5 includes 0.8mm(1/32"); 1.2mm(3/64"); 1.5mm(1/16"); 2.0mm(5/64"); and 2.3mm(3/32") tips. The larger set includes all 10 tips: the 5 above plus 0.4mm(1/64"); 3.0mm(1/8"); 3.9mm(5/32"); 4.7mm(3/16"); and 5.5mm(7/32") tips.



(\$30.00 value)  
✓ **SET99X5 \$21.60**

All Tips Shown Actual Size.



(\$64.00 value)  
✓ **SET99X10 \$58.00**

### Other Sets Available:

Feather Former™ Sets ([pages 128-130](#))

Bead-Maker Tip Set ([page 116](#))

"Simkin" Split-Maker Sets ([page 115](#))

### Razertip's Exclusive Unconditional Warranty:

Covers everything (and we mean everything). One year on fixed-tip pens and 90 days on interchangeable tips. Re-tipping is always available - no charge during warranty period; \$6.00 for standard or HD tips or \$9.50 for any Feather Former™ tip replacement (post-paid) after warranty has expired. Complete details on [page 107](#) or at [www.razertip.com](http://www.razertip.com) (click on the "warranty" link).

# Feather Formers™

All Tips Shown  
Actual Size

Imagine texturing a bird carving in minutes instead of hours! Razertip's revolutionary Feather Formers™ let you define a feather and burn the barb texture in seconds. They're easy to learn and easy to use. There are 63 different Feather Formers™ available from 40 lines per inch to 250 lines per inch. Not only are Feather Formers™ faster to burn with, but painting a "Feather-Formed" surface is easier because the texture isn't too deep. You can easily paint accent marks at angles to the main texture, creating a very soft, natural look. Once your bird has been textured with Feather Formers™ you can come back with your regular pens to create stray barbs or splits as desired, or you can continue on with stoning techniques. The possibilities are endless! See the Feather Former™ tips at work with video clips at [www.razertip.com](http://www.razertip.com)

Feather Former™ tips are made from wrapped wire that burns multiple lines on contact. Feather and hair textures of almost any type can be achieved by using the bent portions (corners) of the various tip shapes (skew, spear, chisel and round). Sets of 4 tips are available in each different coarseness. Tip sets are a great way to get started with Feather Formers™ as they will allow you to achieve whatever texture you want. If using interchangeable tips we recommend that you have at least 2 of our #BPH pens on hand. This allows you to spend less time changing tips and also should prevent the need to change tips in a hot pen.

**Ridiculously Fine (RF)**

What else could we call them? They burn 250 lines per inch, much finer than anyone can burn with a single-point tip. Great for very small miniature carvings. Use with standard or HD cord.

**Round Series 52(RF)**

4mm  
 **TH52.04RF**  
**HD52.04RF**

**Spear Series 55(RF)**

4mm  
 **TH55.04RF**  
**HD55.04RF**

**Chisel Series 56(RF)**

4mm  
 **TH56.04RF**  
**HD56.04RF**

**Skew Series 57(RF)**

4mm  
 **TH57.04RF**  
**HD57.04RF**

Tip Set (One each of tips shown above) # **SET4-FFRF \$33.50**  
 Pen Set (One each of tips shown above, welded into HD pens) # **SET4HD-FFRF \$128.75**

**Also Available:**

2mm Round  
 **TH52.02RF**  
**HD52.02RF**

3mm Round  
 **TH52.03RF**  
**HD52.03RF**

Burned with #52.04RF Round Tip



Magnified 2X


**Individual Tips \$9.50 ea. Pens \$35.75 ea.**

*All Tips Shown Actual Size*


**Extra-Fine (XF)**

Burn 120 lines per inch, still finer than most people can burn with a single-point tip. Ideal for miniatures. Use with HD cord for best results.


**Round Series 52(XF)**

4mm  
 **TH52.04XF**  
**HD52.04XF**


**Spear Series 55(XF)**

4mm  
 **TH55.04XF**  
**HD55.04XF**

**Chisel Series 56(XF)**


4mm  
 **TH56.04XF**  
**HD56.04XF**


**Skew Series 57(XF)**


4mm  
 **TH57.04XF**  
**HD57.04XF**

Tip Set (One each of tips shown above) # **SET4-FFXF \$33.50**  
 Pen Set (One each of tips shown above, welded into HD pens) # **SET4HD-FFXF \$128.75**


**Also Available:**

2mm Round  
 **TH52.02XF**  
**HD52.02XF**


5mm Round  
 **TH52.05XF**  
**HD52.05XF**


10mm Spear  
 **TH55.10XF**  
**HD55.10XF**

Burned with #52.04XF Round Tip



Magnified 2X

3mm Round  
 **TH52.03XF**  
**HD52.03XF**

6mm Round  
 **TH52.06XF**  
**HD52.06XF**

**Individual Tips \$9.50 ea. Pens \$35.75 ea.**

*All Tips Shown Actual Size*










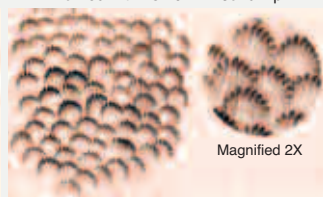





## FAQ: How do I clean Feather Former™ tips?

Use a dense brass brush ([page 30](#)). Simply brush the tip clean - the tip can be hot or cold when being cleaned in this way.








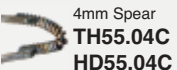


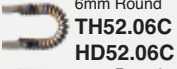




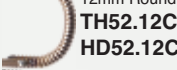
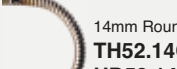

<p><b>Fine (F)</b></p> <p>Burn 85 lines per inch. Fine tips are great for miniatures and very small birds such as Hummingbirds Siskins, etc. Use with HD cord for best results.</p>	<p><b>Round Series 52(F)</b></p> <p>5mm TH52.05F HD52.05F</p> 	<p><b>Spear Series 55(F)</b></p> <p>4mm TH55.04F HD55.04F</p> 	<p><b>Chisel Series 56(F)</b></p> <p>6mm TH56.06F HD56.06F</p> 	<p><b>Skew Series 57(F)</b></p> <p>4mm TH57.04F HD57.04F</p> 		
	<p>Tip Set (One each of tips shown above) # SET4-FFF \$33.50</p> <p>Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFF \$128.75</p>					
	<p><b>Also Available:</b></p>					
	<p>4mm Round TH52.04F HD52.04F</p> 	<p>10mm Spear TH55.10F HD55.10F</p> 	<p>4mm Chisel TH56.04F HD56.04F</p> 	<p>7mm Skew TH57.07F HD57.07F</p> 		
	<p>6mm Round TH52.06F HD52.06F</p> 			<p>10mm Chisel TH56.10F HD56.10F</p> 		
	<p>7mm Round TH52.07F HD52.07F</p> 	<p>Burned with #57.04F Skew Tip</p> 		<p>Burned with #52.05F Round Tip</p>  <p>Magnified 2X</p>		
	<p>8mm Round TH52.08F HD52.08F</p> 					
	<p><b>Individual Tips \$9.50 ea. Pens \$35.75 ea.</b></p>					

All Tips Shown Actual Size

<p><b>Medium (M)</b></p> <p>Burn 70 lines per inch. This is close to the lines per inch experienced carvers burn with a single-point tip. Medium tips can be used even on small birds and are ideal for many birds from sparrow size up. Can even be used on ducks if you want a fine detail finish on your duck. Use with HD cord for best results.</p>	<p><b>Round Series 52(M)</b></p> <p>7mm TH52.07M HD52.07M</p> 	<p><b>Spear Series 55(M)</b></p> <p>10mm TH55.10M HD55.10M</p> 	<p><b>Chisel Series 56(M)</b></p> <p>6mm TH56.06M HD56.06M</p> 	<p><b>Skew Series 57(M)</b></p> <p>6mm TH57.06M HD57.06M</p> 	
	<p>Tip Set (One each of tips shown above) # SET4-FFM \$33.50</p> <p>Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFM \$128.75</p>				
	<p><b>Also Available:</b></p>				
	<p>4mm Round TH52.04M HD52.04M</p> 	<p>4mm Spear TH55.04M HD55.04M</p> 	<p>10mm Chisel TH56.10M HD56.10M</p> 		
	<p>5mm Round TH52.05M HD52.05M</p> 	<p>Burned with #55.10M Spear Tip</p> 		<p>Burned with #52.04M Round Tip</p>  <p>Magnified 2X</p>	
	<p>6mm Round TH52.06M HD52.06M</p> 				
	<p>8mm Round TH52.08M HD52.08M</p> 				
	<p>10mm Round TH52.10M HD52.10M</p> 	<p>Burned with #57 Skew Tips</p> 			
	<p>12mm Round TH52.12M HD52.12M</p> 				
	<p><b>Individual Tips \$9.50 ea. Pens \$35.75 ea.</b></p>				

**Coarse (C)**

Burn 50 lines per inch. Coarse tips are very well-suited for larger birds (crow size) as well as most ducks. They take a bit longer than other Feather Formers™ to heat and to recover their heat. Should only be used with HD cord.








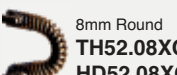
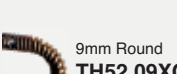

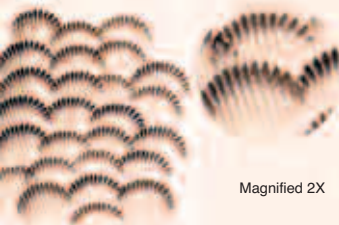
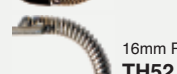
Round Series 52(C)	Spear Series 55(C)	Chisel Series 56(C)	Skew Series 57(C)
 10mm TH52.10C HD52.10C	 10mm TH55.10C HD55.10C	 6mm TH56.06C HD56.06C	 6mm TH57.06C HD57.06C
Tip Set (One each of tips shown above) # SET4-FFC \$33.50			
Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFC \$128.75			
<b>Also Available:</b>			
 5mm Round TH52.05C HD52.05C	 4mm Spear TH55.04C HD55.04C	 10mm Chisel TH56.10C HD56.10C	 10mm Skew TH57.10C HD57.10C
 6mm Round TH52.06C HD52.06C	Burned with #52.08C Round Tip		Burned with #56.06C Chisel Tip
 7mm Round TH52.07C HD52.07C			
 8mm Round TH52.08C HD52.08C	Magnified 2X		
 12mm Round TH52.12C HD52.12C	Burned with #57 Skew Tip		
 14mm Round TH52.14C HD52.14C			

Individual Tips \$9.50 ea. Pens \$35.75 ea.

All Tips Shown Actual Size

**Extra-Coarse (XC)**

Burn 40 lines per inch. Extra-Coarse tips are best suited for very large birds and birds with very coarse plumage (like herons, cranes etc.). Because of the large tip size they take longer to heat and to recover than other tips. HD cord is essential.

Round Series 52(XC)	Spear Series 55(XC)	Chisel Series 56(XC)	Skew Series 57(XC)
 12mm TH52.12XC HD52.12XC	 10mm TH55.10XC HD55.10XC	 10mm TH56.10XC HD56.10XC	 10mm TH57.10XC HD57.10XC
Tip Set (One each of tips shown above) # SET4-FFXC \$33.50			
Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFXC \$128.75			
<b>Also Available:</b>			
 7mm Round TH52.07XC HD52.07XC	 10mm Round TH52.10XC HD52.10XC	 6mm Chisel TH56.06XC HD56.06XC	
 8mm Round TH52.08XC HD52.08XC	Burned with #52.10C Round Tip		
 9mm Round TH52.09XC HD52.09XC	 14mm Round TH52.14XC HD52.14XC		
 16mm Round TH52.16XC HD52.16XC	Magnified 2X		

Individual Tips \$9.50 ea. Pens \$35.75 ea.

Customize your Razaire™ 530 to meet your needs! All accessories attach in seconds without any tools. It's easy to change from a table-top unit to a lap-top collector or even a 4" vacuum.



**4" Inlet hose adapter** Connect your Razaire™ 530 to many of your shop tools, to a lap-top carving tray, or even a cyclone lid. You can even use your Razaire™ 530 as a variable-suction vacuum cleaner using 4" vent hose from your local hardware store.

# ZA400 \$39.95



**Motor Tool Hanger** Hang your flex-shaft tool on the Razaire™ 530. Can be mounted on either side (unless the Exhaust Air Deflector is in place).

# ZA325 \$17.50



**Lap-top tray** This very comfortable tray lets you carve right in your lap (requires use of the 4" hose adapter and a length of 4" hose). But it's much more than just a lap tray. Stand it on edge and it excels at picking up dust from small stationary belt sanders and small grinders. The upper edges are not only comfortable to rest your arms on, they can also be used to fashion the lap tray into a drawer that conveniently stores away under your desk or bench. Approximately 13"x17"x2" deep.

# ZA440 \$32.00



**Exhaust Air Deflector** Exhaust air normally discharges from the side of the Razaire™ 530. This adapter slips down over the exhaust, re-directing the air towards the back of the unit. Useful in classes, but it's also great to re-direct air in many other situations such as when using your Razaire™ 530 beside a tabletop sander or scrollsaw. It's also recommended that you use this deflector when using a Razaire™ 530 without the front hood.

# ZA375 \$14.50

**Extra 2" Filter Frame** Snaps on to the front of your Razaire™ 530, allowing you to add as many filter stages as you want (one frame required per stage). Also a great way to make your own custom hoods for the Razaire™ 530 - attach a frame and build your custom hood onto it for a quick-release attachment.

# ZH1002 \$13.95

**8" Front Hood (replacement)** # ZA550-8 \$29.95

### Razertip Index

Adapters	105	Grips, foam handpiece	106	Starter Packages	104
Cords	105	I.D. Rings	106	Tip cleaner	106
Dust collector and accessories	131,132	Interchangeable-tip pen	109	Tip replacement service	107
General information	107	Pen comparison	108,109	Tip Index	See Below
		Power Supplies -120V	102	Tip wire	123
		Power Supplies -240V	103	Warranty information	107,108

### Tip Index (By Tip Type)

Ball Stylus Tips	120,121	Lamilae-making Tips	116	Special-purpose Tips	116
Bead-making Tips	116	Long-reach Pens	112	Split-making Tips	115
Branding (Stamping) Tips	122	Modifiable Tip Blanks	123	Stamping Tips	122
Burnishing Tips	116	Multi-line Tips	113	Steel Blank Tips	123
Calligraphy Tips	120	Multi-use Tips	115	Tip Sets	115,116,127,128-130
Cutting Tips	116	Quill-making (Shaft-making) Tips	117,118	Tip Wire	123
Detail (sharp) Tips	110-113	Scale Tips	124-126	Transfer Tips	119
Feather Former™ Tips	128-130	Sets	115,116,127,128-130	"V" Branding Tips	122
General-purpose Tips	122	Shading Tips	118,119	Wax Tips	121
		Shaft-making Tips	117,118	Wide Detail Tips	114
		Sharp-line (detail) tips	110-114	Wire Blanks (make your own tips)	123
				Writing and Stylus Tips	120,121

### Tip Index (By Series #)

Series 1 Skew Tip	110	Series 12 Curved Spear Tips	112	Series 92 Circle Stamping Tips	122
Series 2 Round Tips	111,118	Series 13 Sharp Skew Tips	111	Series 66 "V" Branding Tips	122
Series 3 Lamilae Making Tip	116	Series 14 Knife Tips	113	Series 68 Brass Calligraphy Tips	120
Series 4 Flat Skew Tips	111	Series 15 Shaft/ Shading Tips	117,118	Series 70-78 Steel Blank Tips	123
Series 5 Spear Tips	112,114,117,118	Series 16 45-Degree Shaders	119	Series 71 Wide-groove Detail	114
Series 6 Chisel Tips	113,119,120	Series 17 Coarse Detail Tips	114	Series 73 Transfer/Shader Tips	119
Series 7 Round Skew Tips	121	Series 18 Multi-use Tips	115	Series 79 Wax Writing Tips	121
Series 8 Burnishing Tips	116	Series 20-29 Scale Tips	124-126	Series 92 Circle Stamping Tips	122
Series 9 Writing Tips	120	Series 30 Spoon Shading Tips	119	Series 93 Copper Shading Tip	116,119
Series 10 General Purpose Tips	122	Series 32 Waxing Tips	121	Series 96 Square Stamping Tips	122
Series 11 Multi-Line Tips	113	Series 34 Simkin Split-makers	115	Series 98 Bead-making Tips	116
		Series 35 Mueller Split-makers	115	Series 99 Ball-stylus Tips	120,121
		Series 36 Larry Barth Tips	114	Series "PK" Waxing Tips	121
		Series 52-57 Feather Formers	128-130		



**Razaire™ unconditional  
Warranty:**

Cabinet and Electronics 10 yrs.  
Fan 5 years

The Razaire™ 530 has been setting the standard for portable dust collectors since it was introduced in 1997. It is still the smallest, quietest, most powerful and versatile portable dust collector in the world. Because it's a modular system, it can handle the dust control needs of any small home workshop - from collecting dust at the source (rotary carving tools, belt sanders, etc.) to overall shop air filtration. How does it work? Dusty air enters the front of the unit, drawn in by a powerful impeller fan. Dust is trapped by a filter that removes over 90% of 3-4 micron sized particles (about the size of baby powder). Clean air is then exhausted out the side. Normally it is not necessary to carve inside the acrylic hood - working 6" in front of it usually provides satisfactory results. With enough suction to pick up shavings from a planer (with a 4" hose attached), the Razaire™ 530 can handle it all. The 2" filter is easily removed for

cleaning (filter is cleaned by tapping it into a plastic bag or a garbage can). Many cleanings are possible before replacement is necessary. The flameproof ABS cabinet has a built-in lamp holder to accept a standard swing-arm lamp (not included), providing excellent light where you need it - right at the intake. Includes an 8" acrylic hood that breaks down into 3 flat panels for portability. Several accessories are available for increased versatility - everything from higher efficiency filters or extra filter stages to a 4" hose adapter, a lap-top tray, a motor tool hanger, or a deflector to direct exhaust air towards the back. Our exclusive *unconditional* warranty covers the fan for 5 years and the cabinet and electronics for 10 full years! More technical information and instruction manual available at [www.razertip.com](http://www.razertip.com). Razaire™ 530 w/ 2" filter frame, standard filter, 8" hood. # Z530 \$399.00

**A bit about CFM's:** CFM (cubic feet per minute) is the way airflow is measured. The Razaire™ 530 fan is rated at 530 CFM, but you probably won't want to run it that high most of the time. The fan will develop up to 4 times as much vacuum (pull) as other portable dust collectors, so at high settings it can pull very fine dust particles right through the filter. To avoid this, turn the fan down or, if you need the extra suction, add a second filter stage.

### Filters for Razaire™ 530

**About Razaire™ filters** 4 different filters are available. They work fine as single stage filters but are even better in pairs (stacked), increasing both the performance and life of the filter, with no discernable drop in suction. All filters are approximately 9.75"x10.5"x2".

**Standard 30% efficient (green) filter.** Best for general wood dust applications or as the first (front) stage when using higher efficiency filters. Easiest to clean and longest lasting. Superb in pairs! # ZF20 \$17.50

**Medium 60% efficient filter\*.** Good as a second stage, especially when collecting antler or bone particles. Easily cleanable and fairly long lasting. # ZF26 \$21.25 \*Colour may be either orange or white.

**High 80% efficient (pink) filter.** Our most efficient filter; best for hard to capture particles like soapstone and eggshell. Also good for maximum efficiency when a single stage is desirable. Because of the fine weave of this filter, it is not as easily cleaned as the others and will require more frequent replacement. For best results we recommend using it as a second stage with a standard filter in front. # ZF28 \$30.50

**Activated Charcoal 30% Efficient (gray) filter.** Can *reduce* many odours like burning wood, antler and eggshell. Recommended as a second stage as it will require frequent replacement if used alone. Note: This filter does not *eliminate* odours and it works best at low fan speed settings. # ZF24 \$23.50

**Extra 2" Filter Frame.** Snaps on to the front of your Razaire™ 530, allowing you to add as many filter stages as you want (one frame required per stage). Also a great way to make your own custom hoods for the Razaire™ 530 - attach a frame and build your custom hood on to it for a quick-release attachment. # ZH1002 \$13.95