

Razertip®

LEAVE YOUR MARK™



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Razaire™ MINI

Smoke
Extractor
Model X60



Keep your pyrography workspace fresh and clear of smoke with the Razaire™ MINI - X60 Smoke Extractor. With multi-stage carbon filtration and a versatile design the Razaire™ MINI works in most settings and with any project. The soft Hood Grip allows the Razaire™ MINI to be used on top of your project to ensure maximum smoke capture and filtration.

The unit can still be used as a fan to draw air away with the filters removed.

#CAT X60



Razaire Mini - X60 Primary Filter Expansion Kit

You can increase the filtering efficiency of the Razaire™ MINI by adding one or more Primary Filter Expansion Kits. Each kit includes an Expansion Frame and a new Primary Filter.

#CAT XF200



Razaire Mini - X60 Pre-Filter

Pre-Filter replacements.
#CAT XF105



Razaire Mini - X60 Primary Filter

The Primary Filter.

#CAT XF102

SK

- Razertip legacy starter
- Tip Temperature Range
473°F (245°C) to 1400°F (760°C)
approx.
- Packed with the same power as
the SS-D10
- Single handpiece capacity
- Available in 120V or 240V for
Europe, Australia and New
Zealand



SS-D10

- Razertip's legacy workhorse
- Dual handpiece capability
- Tip Temperature Range
338°F (170°C) to 1373°F (745°C)
approx.
- Extra low-end temperature
adjustment allows you to turn
the heat down further if the "1"
setting is still too hot.
- Available in 120V or 240V for
Europe, Australia and New
Zealand



All machines have a 3 year unconditional warranty that covers everything.

SL1

- Bright LED Digital display
- Dial heat control with 99 settings
- Tip Temperature Range 77°F (25°C) to 1650°F (900°C) approx.
- Retains setting when powered off/on
- Exceptional heat recovery
- Handpiece indicator lights can help confirm proper pen and cord operation
- Safety Certified with automatic Shut-off (after 60 minutes)
- Internal thermal overload protection



Caution: Because of the high output of the SL Burner, using Standard Pens at heat settings greater than 60 is not recommended as pen damage may occur. For settings over 60 only use HEAVY DUTY PENS or BPH PENS.



SL3

- Bright LED Digital display
- Dial heat control with 99 settings
- 3 pen jacks (channels) selection – each with unique heat setting adjustment
- Tip Temperature Range 77°F (25°C) to 1650°F (900°C) approx.
- Retains setting when powered off
- Exceptional heat recovery
- Handpiece indicator lights can help confirm proper pen and cord operation
- Safety Certified with automatic Shut-off (after 60 minutes)
- Internal thermal overload protection



All machines have a 3 year unconditional warranty that covers everything.

P80

- Fully regulated, power supply.
- 3.5" digital touch-screen interface.
- Tip Temperature Range: 180°F (80°C) to 1400°F (800°C) approx. Settings 100-800.
- Built-in memory function, recall the 3 most recently keyed in heat settings
- R-Touch System expansion modules available. (P80x, P88x)
- Handpiece indicator light can help confirm proper pen and cord operation
- Compatible with all existing Razertip pens and accessories.



(Expansion modules require a P80 or P88 base unit to function)

P80 & P88 burners are supplied with a power cord (North America 120V) and an extra-flex pen cord (#cord1P).



P88

- Fully regulated, power supply.
- 3.5" digital touch-screen interface.
- Tip Temperature Range: 180°F (80°C) to 1400°F (800°C) approx. Settings 100-800.
- R-Touch System expansion modules available (P88x, P80x)
- 8 fully customizable memory channels (name and heat setting)
 - Additional 3 channel quick function
- Handpiece indicator light can help confirm proper pen and cord operation
- Compatible with all existing Razertip pens and accessories.



(Expansion modules require a P80 or P88 base unit to function)

All machines have a 3 year unconditional warranty that covers everything.

BURNERS

OVERVIEW

CAT.#

SK



(Also available in 240V 60HZ for multiple countries)

SK

w/ 1-F1L pen & 1-18 ga. extra-flex cord

w/ 1-HD1L pen & 1-16 ga. HD cord

w/ BPH Pen & 1-16 ga. HD cord

SK Power Supply Only

#SK-F1L

#SK-HD1L

#SK-HD-BPH

#120VSK

SS-D10



(Also available in 240V 60HZ for multiple countries)

SS-D10

w/ 1-F1L pen & 1-18 gauge extra-flex cord

w/ 1-HD1L pen & 1-16 gauge HD cord

w/ BPH Pen & 1-16 ga. HD cord

SSD Power Supply Only

#SS-DF

#SS-DHD

#SS-D-HD-BPH

#120VSSD10

SL1



(Available in 240V 60HZ for multiple countries)

SL1 burner w/ BPH pen & 1-16 ga. HD cord

SL1 Power Supply Only

#SL1-BPH

#120VSL1

SL3



(Available in 240V 60HZ for multiple countries)

SL3 burner w/ BPH pen & 1-16 ga. HD cord

SL3 Power Supply Only

#SL3-BPH

#120VSL3

P80



(120V-240V will work world wide)

P80 Base Unit

w/ 1-F1L pen

w/ 1-HD1L pen

w/ BPH pen

P80 Expansion Module

Add to P80 or P88 to make double or triple burner.

Additional P80 handpiece cord

P80-NA-PS

P80-NA-F1L

P80-NA-HD1L

P80-NA-BPH

P80X

CORD1P

P88



(120V-240V will work world wide)

P88 Base Unit

w/ 1-F1L pen

w/ 1-HD1L pen

w/ BPH pen

P88 Expansion Module

Add to P80 or P88 to make double or triple burner.

Additional P88 handpiece cord

P88-NA-PS

P88-NA-F1L

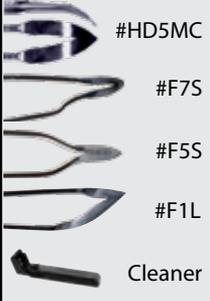
P88-NA-HD1L

P88-NA-BPH

P88X

CORD1P

Value-Priced Starter Packages

	Carving #KIT01	Pyrography #KIT02	Gourd Art #KIT03	Woodturning #KIT04
PACKAGES				
SK Burner #KIT(XX)SK	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD 1 x pkg. asst. tip wire
SS-D10 Burner #KIT(XX)SS-D	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD	Power supply Pens above 1 x CORD1FL 1 x CORD1HD 1 x pkg. asst. tip wire
SL1 Burner #KIT(XX)SL1	Power supply Pens above 1 x CORD1HD	Power supply Pens above 1 x CORD1HD	Power supply Pens above 1 x CORD1HD	Power supply Pens above 1 x CORD1HD 1 x pkg. asst. tip wire
SL3 Burner #KIT(XX)SL3	Power supply Pens above 3 x CORD1HD	Power supply Pens above 3 x CORD1HD	Power supply Pens above 3 x CORD1HD	Power supply Pens above 3 x CORD1HD 1 x pkg. asst. tip wire
P80 Burner #KITP80(XX)	Base Unit Pens above 1 x CORD1P	Base Unit Pens above 1 x CORD1P	Base Unit Pens above 1 x CORD1P	Base Unit Pens above 1 x CORD1P 1 x pkg. asst. tip wire

Burner Comparison Chart

Take a look at the comparisons of our various burners to help you make the decision of which burner is best for you. All burners are proudly made in Canada.

	No. of Connections	Universal Input	Input /Output Power	Precision	Controls	Tip Temp. range using (Cord)+(Pen)	Dimensions
 <i>SK</i>	1	✗	120 or 230VAC 2.2VAC 10.0A max.	Good	Analog/ Dial	245°C-760°C	4" W 5" L 3.5" H
 <i>SS-V10</i>	2	✗	120 or 230VAC 2.2VAC 10.0A max.	Good	Analog/ Dial	170°C-745°C	5¾" W 5" L 3.5" H
 <i>SL1</i>	1	✗	120VAC or 230VAC 3.2VAC 14A max	Better	Digital/Dial	24°C-900°C	5.5" W 4.6" L 3¾" H
 <i>SL3</i>	3	✗	120VAC or 230VAC 3.2VAC 14A max	Better	Digital/Dial	24°C-900°C	5" W 5" L 3.5" H
 <i>P80</i>	1 Expandable	✓	90-240VAC 6VDC 8.0A max. (works worldwide)	Best	Digital/ Touch Screen	80°C-800°C	4¾" W 3.5" L 3.5" H
 <i>P88</i>	1 Expandable	✓	00-240VAC 6VDC 8.0A max. (works worldwide)	Best	Digital/ Touch Screen	80°C-800°C	4.5" W 4.5" L 3.6" H

** Heat settings based on standard #1L tip. Actual tip temperature will depend on the tip size (heavier tips run cooler than smaller, lighter tips)



PYRO STUDIO™

PYRO STUDIO™

Helpful and innovative products that help you to complete those amazing projects.

Burn-through transfer paper

Start your project by tracing or photocopying project, attach to a piece of wood and begin to burn your picture on wood and watch it come alive. Compatible with both inkjet and laser printers.



15 Sheets Transfer Paper #PSPAP15



100 Sheets Transfer Paper #PSPAP100

No-Slip Silicone Mat

Our no-slip silicone mats come in three different colours. Ocean, Coral and Black. They will give you that grip to work on your project steadily and effortlessly for those precision burns you require.



Ocean #MAT1218-01
Coral #MAT1218-02
Grey #MAT1218-GRY

Foam GRIPS (all shown actual size)

Standard Foam Grip # GRIP



Replacement foam grip for standard Razertip pens.
GRIP

Grip for HD Pen # GRIPHD



Replacement foam grip for heavy duty Razertip pens.
GRIPHD

Silicone GRIPS (all shown actual size)

Silicone Grips

This replacement silicone grip protects sensitive fingers from heat when burning for an extended period. Fits best on our standard pens, will also work with our heavy duty pens. Comes in three different colours.

- Ocean #GRIPSIL-01
- Coral #GRIPSIL-02
- Gray #GRIPSIL-03
- Green #GRIPSIL-04
- Purple #GRIPSIL-05
- Black # GRIPSIL-BLK



Pen shown with the
NEW Silicone grip

Tip Cleaners

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



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.

Razertip Brass Brush Cleans tips of all shapes and sizes. Used to clean BPH pens. Gently removes carbon.

#BRASSBRUSH



Clips



Hand piece clip,
new snap-in
mount
SCLIP



Handpiece clip
with adhesive
back
CLIP

Coloured ID Rings for Pens

These "O"-rings are a simple way to identify one pen from another without having to look carefully at the tip. 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. They are re-usable and will fit Standard or HD pens.

24 rings, 3 ea. black, blue, green, orange, purple, red, white, yellow. # RINGSET24
Also available individually # RING516(colour) ei: RING516BLUE



Razertip® Handpiece Cords

Razertip® cords are the most flexible and reliable cords available. All of our RCA connectors are custom made to ensure the proper connection is made, providing many years of dependable service.

Frequently Asked Questions

Q): What's the difference between Standard and Heavy-duty cords?

A): Standard ("FL" cords w/black ends) **18-gauge cord for maximum flexibility.**

Heavy-Duty ("HD" cords w/red end) **16-gauge cord for better tip heat recovery, less flexible.**

Any of our pens work on either cord, but HD pens perform best with HD cords. (Except P80 - See page 2).



CORD1FL (39")



CORD1HD (39")

#1 Cord Male RCA connectors on each end.

Use with Razertip® power supplies. Available in "FL" (super-flexible) or "HD" (heavy-duty). 1M (39") long.

A 12" version of the #1 cord is available for use as a patch cord on Colwood burners: **# CORD7FL (12")**

CORD7HD (12")

Adapter Cords



CORD2FL (39")

CORD2HD (39")

#2 Cord RCA (Male and female). Razertip extension cord. Also allows many other pens (Colwood, Optima) on a Razertip® power supply.



CORD3FL (39")

CORD3HD (39")

#3 Cord One male RCA, one 1/4" phone plug. Use Razertip® pens on power supplies with a 1/4" phone jack (Detail Master, Burnmaster).



CORD4FL (39")

CORD4HD (39")

#4 Cord Use Razertip® pens on power supplies with two "U" connector screws (Colwood).



CORD5FL (39")

#5 Cord To use Razertip® pens on power supplies that have two banana connectors.



CORD8HD (12")

#8 Cord To use Detail Master pens on Razertip® power supplies. Available in HD only.

Adapters



Adapts Optima, Colwood or Nibs pens to a Razertip® standard cord. (CORD1FL, CORD1HD, CORD7FL, CORD7HD) **# AD1**



Adapts Detail Master or similar pen to a Razertip® power supply. **# AD2**



Adapts Razertip® pens to Colwood, Nibs, Optima etc. **# AD4**

Razertip® General Information

OFFICE HOURS

Razertip Industries Ltd. is open Monday through Friday 9AM-4:30PM CST.
Closed all Canadian holidays and for the week between Christmas and New Year's Day.

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 warranty 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.

Warranty Information

We're proud of each and every item we make, and we stand behind them with our exclusive *Unconditional* Warranty. If 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

Razaire™ MINI X60: 3 years

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.

If you need service after the warranty has expired, be sure to contact us. We can repair most products in a very cost-effective manner. Please, don't throw it out without checking with us first.

Tip Replacement Service:

All of our fixed tip pens carry a one year unconditional warranty.
Interchangeable tips are unconditionally warranted for 90 days.

Past warranty tip Replacements cost: \$12.00* including shipping and taxes to have it replaced. (except for scale tips and Feather Formers which are actual tip cost plus shipping)

We also offer re-tipping *any brand or make of hot-wire tool made*, including Detail Master, Colwood, Optima, and any others.

Detail Master re-tip is a flat fee of \$17.00*.

Detail Master extra heavy-duty re-tips cost \$20.00* (same tip alloy that 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 \$15.00*.

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's better than the new pen had). When returning - return only the pen. Don't send any grips, storage tubes, or anything else that can be removed from the pen.

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.

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.

*Cost for Canada and US only. Additional shipping charges apply for international service.

Razertip® Pen Features



All Razertip® pens have a well-earned reputation.

All pens are built to last a lifetime and operate up to 5 times cooler than other pens. For high-heat users, Razertip® pen bodies will cool off much quicker than any others.

#BPH Interchangeable-tip Pen

Great if you want to try out new tips, make your own tips or for those rarely-used-but-still-important tips. The stainless steel plates and screws offer secure contact and make for easy removal and cleaning.

- Accepts all Razertip® wire tips
- Tip wire from 16-22 ga. as well.
- Screw plates act as a heatsink, keeps heat from transferring into the pen.
- Made from our HD pens, the BPH is cooler to hold than any other interchangeable-tip handpiece.

Heavy-Duty Fixed-tip Pens:

(Pictured on previous page)

HD pens have a larger body than our Standard pens and are built for maximum durability. They have heavier tips and posts.

**higher heat settings often requires, best used with a heavy-duty cords.*

Standard Fixed-tip Pens:

(Pictured on previous page) Our Standard pens are the smallest, most comfortable pens made. They are ideal for any application where fine detail is desirable.

Frequently Asked Questions

Q): Can Razertip® pens be adapted to my other brand of burner?

A): Yes! We make adapter cords that let you use our pens on most other power supply ([page 11](#)).

Q): Will Razertip® pens work the same on my burner as on a Razertip® burner?

A): Razertip® pens perform best on Razertip® burners. Some non-Razertip® burners may burn too hot at their lowest setting or cause the Razertip® pen to heat up prematurely, but all hot-wire type burners will make the tip hot.

Q): 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. Larger tips require a higher operating voltage to heat fully, so some of the larger Detail Master tips may not heat fully or recover heat very quickly.

If you are still not sure, please contact us!



BPH -
Interchangeable-Tip
Pen

Razertip® offers over 900 different tip and pen shapes and styles. With that many we know it may be difficult to find the right. We've grouped tips according to their most common uses (see tip index on [page 35](#) 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 be happy to help.

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 most HD tips and standard pens smaller in size.

Heavy-duty pens and tips are your best choice for shading and cutting. Overall HD pens and tips 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.

Fixed-tip pens allow you to work closer to your project surface, allowing better control. The fixed-tip is usually more rigid than in a BPH pen - again - better control.

If you decide on BPH pens and changing tips, consider more than one because changing tips on a hot pen is no fun (also you won't need to change tips as often).

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.

Sharp Tips for Fine Lines (pages 17-20)

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)	Large Skew # 1L	Medium Skew # 1M	Small Skew # 1S	Extra-Small Skew #1XS
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.				
	✓T1L ✓TH1L	✓T1M ✓TH1M	✓T1S ✓TH1S	✓T1XS
	✓F1L ✓HD1L	✓F1M ✓HD1M	✓F1S ✓HD1S	✓F1XS
	Long Small Skew # 1S-L		✓TH1S-L	✓HD1S-L

Availability Key:

✓T(#) Standard tip only	✓TH(#) Heavy-duty tip only	✓F(#) Fixed-tip Standard Pen	✓HD(#) Fixed-tip Heavy-duty Pen
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Current pricing available at razertip.com

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

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

All Tips Shown Actual Size.

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



- ✓T7XS
- ✓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

Small (or Tight) Round # 2S



- ✓T2S
- ✓F2S
- ✓TH2S
- ✓HD2S

Extra-Small Round # 2XS



- ✓T2XS
- ✓F2XS

Med/Small Round # 2M-S



- ✓T2M-S
- ✓F2M-S

Modified Tight Round # 2A



- ✓T2A
- ✓F2A

Extended Tight Round # 2B



- ✓T2B
- ✓F2B



- ✓TH2M-S
- ✓HD2M-S



- ✓TH2A
- ✓HD2A



- ✓TH2B
- ✓HD2B

Availability Key:

✓T(#)
Standard tip only

✓TH(#)
Heavy-duty tip only

✓F(#)
Fixed-tip Standard Pen

✓HD(#)
Fixed-tip Heavy-duty Pen

Current pricing available at razertip.com

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



✓T5L ✓TH5L
✓F5L ✓HD5L

Medium
Spear # 5M



✓T5M ✓TH5M
✓F5M ✓HD5M

Small
Spear # 5S



✓T5S ✓TH5S
✓F5S ✓HD5S

Extra-Small
Spear #5XS



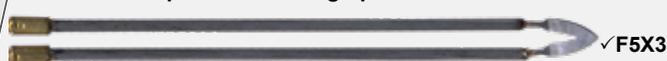
✓T5XS
✓F5XS

2" Special Extra-long Spear # 5X2



✓F5X2

3" Special Extra-long Spear # 5X3



✓F5X3

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



✓T12L
✓F12L

Small Curved
Spear # 12S



✓T12S
✓F12S

Extra-Small Curved
Spear # 12XS



✓F12XS



2" Special Extra-long
Curved Spear # 12SX2

✓F12SX2

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 26 for Stamping tips).

Large
Chisel # 6L



✓T6L ✓TH6L
✓F6L ✓HD6L

Medium
Chisel # 6M



✓T6M ✓TH6M
✓F6M ✓HD6M

Small
Chisel # 6S



✓T6S ✓TH6S
✓F6S ✓HD6S

Large Wide
Chisel # 2L



✓T6LW
✓F6LW

Extra-Small
Chisel #6XS



✓T6XS
✓F6XS

All Tips Shown Actual Size.

Sharp Tips for Fine Lines (continued)...

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 32-34 for more multi-line options). HD cord is recommended for the 8-line tip.

Large Dual Line # 11-2L



- ✓T11-2L
- ✓F11-2L

Medium Dual Line # 11-2M



- ✓T11-2M
- ✓F11-2M

Small Dual Line # 11-2S



- ✓T11-2S
- ✓F11-2S

8-Line # 11-8



- ✓T11-8
- ✓F11-8

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.

Large Knife # 14L



- ✓T14L ✓TH14L
- ✓F14L ✓HD14L

Medium Knife # 14M



- ✓T14M ✓TH14M
- ✓F14M ✓HD14M

Small/Medium Knife # 14SM



- ✓T14SM ✓TH14SM
- ✓F14SM ✓HD14SM

Small Knife # 14S



- ✓T14S ✓TH14S
- ✓F14S ✓HD14S

Extra-Small Knife # 14XS



- ✓T14XS
- ✓F14XS

Small Blunt Heel Knife # 14D



- ✓T14D ✓TH14D
- ✓F14D ✓HD14D

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



- ✓T10L
- ✓F10L

Regular General Pyrography Tip # 10R



- ✓T10R
- ✓F10R

Availability Key:

✓T(#) Standard tip only	✓TH(#) Heavy-duty tip only	✓F(#) Fixed-tip Standard Pen	✓HD(#) Fixed-tip Heavy-duty Pen
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Current pricing available at razertip.com

Sharp Tips for Wide Detail Lines

"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.



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.



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.



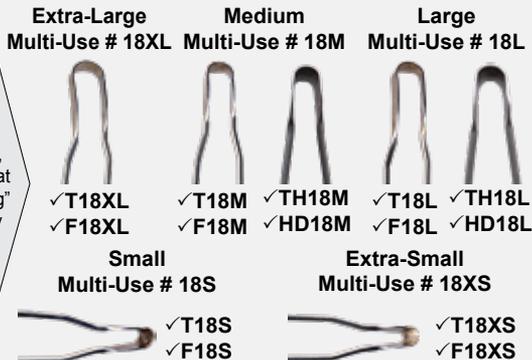
Michael Hosaluk Wide-Groove Medium Spear (Series 5)

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.



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.



Cutting Tips

While many of our tips will cut, these tips excel at cutting. Use on fabrics, plastics, thin wood & leather, paper, stencils and gourds. For strength, reliability and longevity, we recommend using fixed-tip pens for cutting, especially when cutting materials that melt.

<p>Large Skew # 1L</p>  <p>✓TH1L ✓HD1L</p> <p>Our most popular cutting tip. Great for general cutting and trimming of plastics, thin wood, leather, stencils, fabric and paper.</p>	<p>Long Small Skew # 1S-L</p>  <p>✓TH1S-L ✓HD1S-L</p> <p>Most often used for cutting and detailing gourds, but will also work for cutting other materials as well as for fine detail work.</p>	<p>Large Spear # 5L</p>  <p>✓TH5L ✓HD5L</p> <p>Can be used for most of the same cutting and trimming applications as the Skew tip. Also particularly useful for cutting gourds.</p>
<p>Gourd Cutter # 9G.17</p>  <p>✓T9G.17 Tempered tip is great for piercing/cutting gourds. Use at fairly high heat with a "sawing" action. ✓F9G.17</p>		

Split-Making Tips

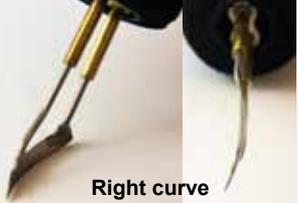
Designed for making subtle splits in feathers. They can take a bit of practice but the results can be very impressive.

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.



✓F35S

All Tips Shown Actual Size.

 <p>Simkin Split Makers (Series 34)</p> <p>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.</p>	 <p>Left curve</p> <p>✓TH34.18LH ✓HD34.18LH</p>	 <p>Right curve</p> <p>✓TH34.18RH ✓HD34.18RH</p>
<p>Set of 2 "Simkin" Split tips (one each Left and Right) # SET2-TH34.18</p> <p>Set of 2 "Simkin" Split pens (one each Left and Right) # SET2-HD34.18</p>		

NOTE

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, Founder, Razertip Industries

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

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.



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

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

Writing & Stylus Tips

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, (pg 18) the 6SB has had the knife edge buffed so the tip will be less prone to digging into your work surface from any angle.



All Tips Shown Actual Size.

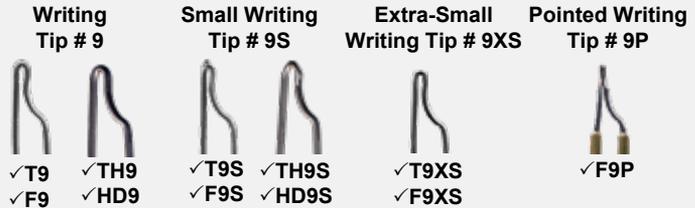
Brass Calligraphy Tips (Series 68)

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".



Writing Tips (Series 9)

Our original writing tips. They heat fairly quickly and recover their heat well. Good for general writing, signing and drawing.



Ball Stylus Tips (Series 99; 0.4mm-2.3mm)

Chrome steel balls welded onto the end of the tip give 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.



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.



Shading Tips (pages 24 & 25)

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

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

All Tips Shown Actual Size.

Shading Tips (continued)

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

Copper Spear Shader (Series 93)

In addition to shading and general pyrography, this tip can also be used for light soldering.



✓T93M
✓F93M

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

Long Waxing Point # PK2



✓HDPK2

Long Waxing Point # PK3



✓HDPK3

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
✓F79.22

Small Wax Writer (20 ga. tube) # 79.20



✓T79.20
✓F79.20

Medium Wax Writer (18 ga. tube) # 79.18



✓T79.18
✓F79.18

Large Wax Writer (16 ga. tube) # 79.16



✓T79.16
✓F79.16

Availability Key:

✓T(#) Standard tip only	✓TH(#) Heavy-duty tip only	✓F(#) Fixed-tip Standard Pen	✓HD(#) Fixed-tip Heavy-duty Pen
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Current pricing available at
razertip.com

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 Pens
Set of 3 Beading Tips # SET3-T98
Set of 3 Beading Pens # SET3-F98

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



✓T66.030R
✓F66.030R

6.5mm "V" Brand # 66.065R



✓F66.065R
✓HD66.065R

4.0mm "V" Brand # 66.040R



✓T66.040R
✓F66.040R

12mm "V" Brand # 66.120R



✓F66.120R

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



✓T92.21
✓F92.21

3.0mm Circle Stamping Tip # 92.30



✓T92.30
✓F92.30

3.8mm Circle Stamping Tip # 92.38



✓T92.38
✓F92.38

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



✓T96.22
✓F96.22

3.0mm Square Stamping Tip # 96.30



✓T96.30
✓F96.30

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 Schreiber 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! HD Cord recommended.

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**
Standard Wire (20Ga./ 0.032")
3pcs x 6" ea (18" total).....# **TW3.2006**

Light Wire (22Ga./ 0.025")
3pcs x 6" ea (18" total).....# **TW3.2206**
6-pc. Assortment: 6" x 2ea. of 18, 20 & 22ga
(36" total)# **TW6.AST**

Scale Tips (pages 28-30)

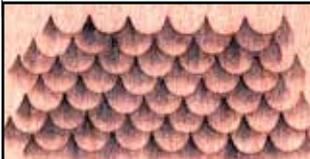
Our selection of scale tips is second to none. We make over 185 different tip shapes and styles, available in your choice of fixed or interchangeable tips. In addition to our stock scale tips listed below we can make custom scale tips for special projects like lizards, snakes or dragons.

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	Availability	Reg. Curve #	Deep Curve #	Flat Curve #
1mm	Tip	T20.01R	T20.01D	T20.01F
	Pen	F20.01R	F20.01D	F20.01F
2mm	Tip	T20.02R	T20.02D	T20.02F
	Pen	F20.02R	F20.02D	F20.02F
3mm	Tip	T20.03R	T20.03D	T20.03F
	Pen	F20.03R	F20.03D	F20.03F
4mm	Tip	T20.04R	T20.04D	T20.04F
	Pen	F20.04R	F20.04D	F20.04F
5mm	Tip	T20.05R	T20.05D	T20.05F
	Pen	F20.05R	F20.05D	F20.05F
6mm	Tip	T20.06R	T20.06D	T20.06F
	Pen	F20.06R	F20.06D	F20.06F
7mm	Tip	T20.07R	T20.07D	T20.07F
	Pen	F20.07R	F20.07D	F20.07F
8mm	Tip	T20.08R	T20.08D	T20.08F
	Pen	F20.08R	F20.08D	F20.08F

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	Availability	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip	T21.02R	T21.02D	T21.02F
	Pen	F21.02R	F21.02D	F21.02F
3mm	Tip	T21.03R	T21.03D	T21.03F
	Pen	F21.03R	F21.03D	F21.03F
4mm	Tip	T21.04R	T21.04D	T21.04F
	Pen	F21.04R	F21.04D	F21.04F
5mm	Tip	T21.05R	T21.05D	T21.05F
	Pen	F21.05R	F21.05D	F21.05F
6mm	Tip	T21.06R	T21.06D	T21.06F
	Pen	F21.06R	F21.06D	F21.06F
7mm	Tip	T21.07R	T21.07D	T21.07F
	Pen	F21.07R	F21.07D	F21.07F
8mm	Tip	T21.08R	T21.08D	T21.08F
	Pen	F21.08R	F21.08D	F21.08F
9mm	Tip	T21.09R	T21.09D	T21.09F
	Pen	F21.09R	F21.09D	F21.09F
10mm	Tip	T21.10R	T21.10D	T21.10F
	Pen	F21.10R	F21.10D	F21.10F

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.

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.

Current pricing available at razertip.com

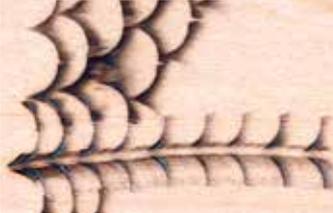
Scale Tips (continued)

“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.



Upper scales formed with #21.09R.



Lateral line formed with #25.09R.

Current pricing available at razertip.com

“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	Availability	Reg. Curve #	Deep Curve #	Flat Curve #	Tip Width	Availability	Keeled #
0.5mm	Tip	T22.005R	T22.005D	T22.005F	2mm	Tip	T22.02K
	Pen	F22.005R	F22.005D	F22.005F		Pen	F22.02K
1mm	Tip	T22.01R	T22.01D	T22.01F	2.5mm	Tip	T22.025K
	Pen	F22.01R	F22.01D	F22.01F		Pen	F22.025K
2mm	Tip	T22.02R	T22.02D	T22.02F	3mm	Tip	T22.03K
	Pen	F22.02R	F22.02D	F22.02F		Pen	F22.03K
3mm	Tip	T22.03R	T22.03D	T22.03F	3.5mm	Tip	T22.035K
	Pen	F22.03R	F22.03D	F22.03F		Pen	F22.035K
4mm	Tip	T22.04R	T22.04D	T22.04F	4mm	Tip	T22.04K
	Pen	F22.04R	F22.04D	F22.04F		Pen	F22.04K
5mm	Tip	T22.05R	T22.05D	T22.05F	4.5mm	Tip	T22.045K
	Pen	F22.05R	F22.05D	F22.05F		Pen	F22.045K
6mm	Tip	T22.06R	T22.06D	T22.06F	5mm	Tip	T22.05K
	Pen	F22.06R	F22.06D	F22.06F		Pen	F22.05K
7mm	Tip	T22.07R	T22.07D	T22.07F	6mm	Tip	T22.06K
	Pen	F22.07R	F22.07D	F22.07F		Pen	F22.06K
8mm	Tip	T22.08R	T22.08D	T22.08F	7mm	Tip	T22.07K
	Pen	F22.08R	F22.08D	F22.08F		Pen	F22.07K
9mm	Tip	T22.09R	T22.09D	T22.09F	8mm	Tip	T22.08K
	Pen	F22.09R	F22.09D	F22.09F		Pen	F22.08K
10mm	Tip	T22.10R	T22.10D	T22.10F	Keel tips are great for rattlesnakes.		
	Pen	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.

“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.



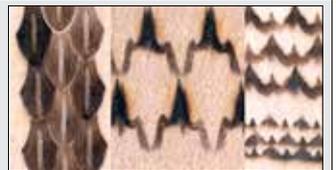
- ✓TH23S
- ✓HD23S

Scales formed with # 23S tip.



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.



Current pricing available at razertip.com

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	Availability	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip	T26.02R	T26.02D	T26.02F
	Pen	F26.02R	F26.02D	F26.02F
3mm	Tip	T26.03R	T26.03D	T26.03F
	Pen	F26.03R	F26.03D	F26.03F
4mm	Tip	T26.04R	T26.04D	T26.04F
	Pen	F26.04R	F26.04D	F26.04F
5mm	Tip	T26.05R	T26.05D	T26.05F
	Pen	F26.05R	F26.05D	F26.05F
6mm	Tip	T26.06R	T26.06D	T26.06F
	Pen	F26.06R	F26.06D	F26.06F
7mm	Tip	T26.07R	T26.07D	T26.07F
	Pen	F26.07R	F26.07D	F26.07F
8mm	Tip	T26.08R	T26.08D	T26.08F
	Pen	F26.08R	F26.08D	F26.08F
9mm	Tip	T26.09R	T26.09D	T26.09F
	Pen	F26.09R	F26.09D	F26.09F
10mm	Tip	T26.10R	T26.10D	T26.10F
	Pen	F26.10R	F26.10D	F26.10F
11mm	Tip	T26.11R	T26.11D	T26.11F
	Pen	F26.11R	F26.11D	F26.11F
12mm	Tip	T26.12R	T26.12D	T26.12F
	Pen	F26.12R	F26.12D	F26.12F
13mm	Tip	T26.13R	T26.13D	T26.13F
	Pen	F26.13R	F26.13D	F26.13F
14mm	Tip	T26.14R	T26.14D	T26.14F
	Pen	F26.14R	F26.14D	F26.14F

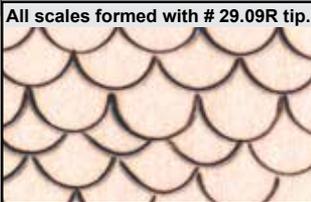
Series 26 tips are all formed from tip wire as shown above (left). They can be used to indicate scales as shown above (left). Leaving a bit of space between each scale when making the first row gives a more realistic scale pattern as shown on the lower half of the illustration above (the same technique 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	Availability	Reg. Curve #	Deep Curve #	Flat Curve #
2mm	Tip	T29.02R	T29.02D	T29.02F
	Pen	F29.02R	F29.02D	F29.02F
3mm	Tip	T29.03R	T29.03D	T29.03F
	Pen	F29.03R	F29.03D	F29.03F
4mm	Tip	T29.04R	T29.04D	T29.04F
	Pen	F29.04R	F29.04D	F29.04F
5mm	Tip	T29.05R	T29.05D	T29.05F
	Pen	F29.05R	F29.05D	F29.05F
6mm	Tip	T29.06R	T29.06D	T29.06F
	Pen	F29.06R	F29.06D	F29.06F
7mm	Tip	T29.07R	T29.07D	T29.07F
	Pen	F29.07R	F29.07D	F29.07F
8mm	Tip	T29.08R	T29.08D	T29.08F
	Pen	F29.08R	F29.08D	F29.08F
9mm	Tip	T29.09R	T29.09D	T29.09F
	Pen	F29.09R	F29.09D	F29.09F
10mm	Tip	T29.10R	T29.10D	T29.10F
	Pen	F29.10R	F29.10D	F29.10F
11mm	Tip	T29.11R	T29.11D	T29.11F
	Pen	F29.11R	F29.11D	F29.11F
12mm	Tip	T29.12R	T29.12D	T29.12F
	Pen	F29.12R	F29.12D	F29.12F
13mm	Tip	T29.13R	T29.13D	T29.13F
	Pen	F29.13R	F29.13D	F29.13F
14mm	Tip	T29.14R	T29.14D	T29.14F
	Pen	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 of scales above show uniform scale shape/size while the rows below show how variable the shape/size can be if desired.

All Tips Shown Actual Size.

Current pricing available at razertip.com

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
✓SET5BC

Heavy-Duty Tips
✓SETHD5BC

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
✓SET8



Heavy-Duty Tips
✓SETHD8

Pyrography 5 Tip Set

Contains Shader #TH30M, Writer #T9, Small Round #T2S, Small Spear #T5S and Transfer/ Shader #T73.07.



✓SET5PY

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.



✓SET5GD

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.



✓SET99X5

All Tips Shown Actual Size.



✓SET99X10

Other Sets Available:

Feather Former™ Sets ([pages 32-34](#))

Bead-Maker Tip Set ([page 26](#))

"Simkin" Split-Maker Sets ([page 21](#))

Current pricing available at razertip.com

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. Complete details on [page 13](#) or at razertip.com (click on the "warranty" link).

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

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)	Spear Series 55(RF)	Chisel Series 56(RF)	Skew Series 57(RF)
 4mm TH52.04RF HD52.04RF	 4mm TH55.04RF HD55.04RF	 4mm TH56.04RF HD56.04RF	 4mm TH57.04RF HD57.04RF

Tip Set (One each of tips shown above) # **SET4-FFRF**

Pen Set (One each of tips shown above, welded into HD pens) # **SET4HD-FFRF**

Also Available:

 2mm Round TH52.02RF HD52.02RF	 3mm Round TH52.03RF HD52.03RF	 Burned with #52.04RF Round Tip <i>Magnified 2X</i>	
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"TH" = Tip only "HD" = Pen with Tip

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)	Spear Series 55(XF)	Chisel Series 56(XF)	Skew Series 57(XF)
 4mm TH52.04XF HD52.04XF	 4mm TH55.04XF HD55.04XF	 4mm TH56.04XF HD56.04XF	 4mm TH57.04XF HD57.04XF

Tip Set (One each of tips shown above) # **SET4-FFXF**

Pen Set (One each of tips shown above, welded into HD pens) # **SET4HD-FFXF**

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 <i>Magnified 2X</i>
 3mm Round TH52.03XF HD52.03XF	 6mm Round TH52.06XF HD52.06XF		

"TH" = Tip only "HD" = Pen with Tip

All Tips Shown Actual Size

Frequently Asked Questions

How do I clean Feather Former™ tips?

Use a dense brass brush. Simply brush the tip clean - the tip can be hot or cold when being cleaned in this way.

Fine (F)

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.

Round Series 52(F)	Spear Series 55(F)	Chisel Series 56(F)	Skew Series 57(F)
 5mm TH52.05F HD52.05F	 4mm TH55.04F HD55.04F	 6mm TH56.06F HD56.06F	 4mm TH57.04F HD57.04F

Tip Set (One each of tips shown above) **# SET4-FFF**
 Pen Set (One each of tips shown above, welded into HD pens) **# SET4HD-FFF**

Also Available:

 4mm Round TH52.04F HD52.04F	 10mm Spear TH55.10F HD55.10F	 4mm Chisel TH56.04F HD56.04F	 7mm Skew TH57.07F HD57.07F
 6mm Round TH52.06F HD52.06F	 10mm Chisel TH56.10F HD56.10F	 Burned with #57.04F Skew Tip	
 7mm Round TH52.07F HD52.07F	 Burned with #52.05F Round Tip Magnified 2X		
 8mm Round TH52.08F HD52.08F			

“TH” = Tip only “HD” = Pen with Tip

All Tips Shown Actual Size

Medium (M)

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.

Round Series 52(M)	Spear Series 55(M)	Chisel Series 56(M)	Skew Series 57(M)
 7mm TH52.07M HD52.07M	 10mm TH55.10M HD55.10M	 6mm TH56.06M HD56.06M	 6mm TH57.06M HD57.06M

Tip Set (One each of tips shown above) **# SET4-FFM**
 Pen Set (One each of tips shown above, welded into HD pens) **# SET4HD-FFM**

Also Available:

 4mm Round TH52.04M HD52.04M	 4mm Spear TH55.04M HD55.04M	 10mm Chisel TH56.10M HD56.10M	
 5mm Round TH52.05M HD52.05M	 Burned with #55.10M Spear Tip		 Burned with #52.04M Round Tip Magnified 2X
 6mm Round TH52.06M HD52.06M	 Burned with #57 Skew Tips		
 8mm Round TH52.08M HD52.08M			
 10mm Round TH52.10M HD52.10M			
 12mm Round TH52.12M HD52.12M			

“TH” = Tip only “HD” = Pen with Tip

**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

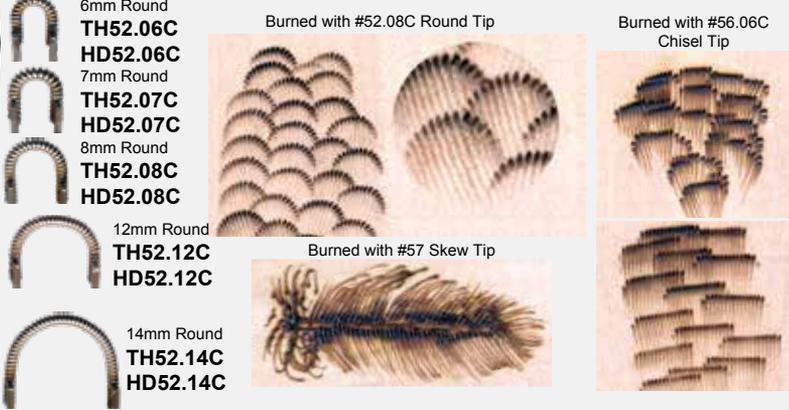
Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFC

Also Available:

5mm Round TH52.05C HD52.05C	4mm Spear TH55.04C HD55.04C	10mm Chisel TH56.10C HD56.10C	10mm Skew TH57.10C HD57.10C
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Burned with #52.08C Round Tip

Burned with #56.06C Chisel Tip



“TH” = Tip only “HD” = Pen with Tip

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

Pen Set (One each of tips shown above, welded into HD pens) # SET4HD-FFXC

Also Available:

7mm Round TH52.07XC HD52.07XC	10mm Round TH52.10XC HD52.10XC	6mm Chisel TH56.06XC HD56.06XC
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Burned with #52.10XC Round Tip



“TH” = Tip only “HD” = Pen with Tip



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



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



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

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.

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

8" Front Hood (replacement)

ZA550-8

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 scroll saw or scrollsaw. It's also recommended that you use this deflector when using a Razaire™ 530 without the front hood.

ZA375



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Razaire™ 530

World's Smallest Portable Dust Management System



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 filter 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. Razaire™ 530 w/ 2" filter frame, standard filter, 8" hood. # Z530

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 from a higher fan setting, add a second or even a third 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 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

Medium 60% efficient filter. Good as a second stage, especially when collecting antler or bone particles. Easily cleanable and fairly long lasting. # ZF26

Activated Charcoal 30% Efficient 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

High 80% efficient 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

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

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