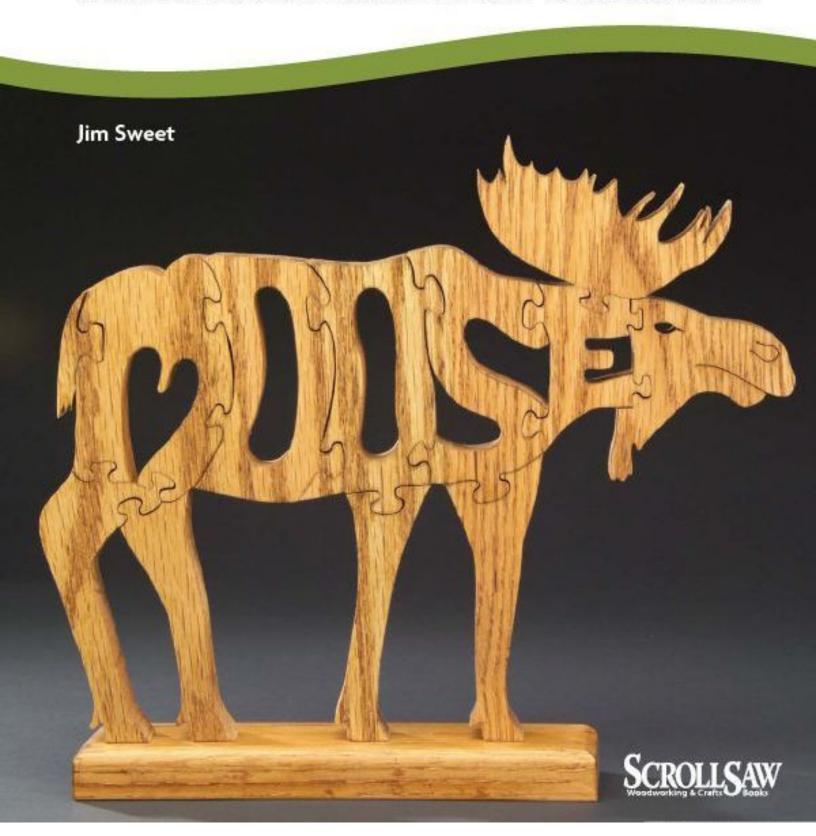
Woodimals

CREATIVE ANIMAL PUZZLES FOR THE SCROLL SAW



Woodinals CREATIVE ANIMAL PUZZLES FOR THE SCROLL SAW

About Jim Sweet and Woodimals®

Jim Sweet retired from a forty-year career in the aerospace industry in 1989. He and his wife Lois took up hobbies to occupy their now jobless days. While his wife turned to sewing, Jim took up woodcrafts.

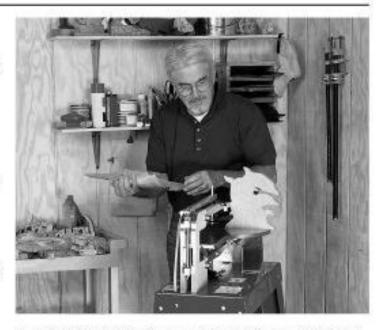
From the start, Jim wanted to sell his woodcrafts at local craft shows. It took almost a year for Lois and Jim to make enough items for their first show. But their products did not have the unique appeal that attracts attention at craft shows. At their first show, the Sweets just didn't have the "right stuff." Jim recalls, "For us, it was a real bust. In a three-day show, we made just enough to pay for our booth space. What we grossed did not even begin to account for our time or materials. It was a learning experience."

At the time, standard craft show fare included shelves, cabinets, footstools, and various decorator items, all made from wood. Initially Jim made those items, too, but he soon realized he needed to come up with a unique product. He considered and rejected several ideas before deciding to specialize in free-standing wooden puzzles.

Using patterns from various craft books and magazines, Jim made puzzles specifically for children. They were built from sturdy construction-grade materials and were painted to add to their appeal. Because the puzzles were made for children, Jim used non-toxic paints and took special care to round off the edges and eliminate all sharp corners.

Jim's craft show sales began an upward trend after he started producing the puzzles, as no one else was making them at the time. Jim, however, wasn't completely satisfied with what he was doing. To secure a new niche for himself, he wanted to make puzzle designs that were uniquely his own.

At one craft show, Jim saw a customer wearing a piece of jewelry that spelled out her name. "If it works for jewelry," he wondered, "why wouldn't that work in wood?" He tried it and



found that he could make a puzzle shaped like an animal that also spelled out the animal's name. "Since the puzzle was made from wood and it was an animal, I came up with the name Woodimal for my puzzles," he recalls.

Jim's Woodimals* have such a unique appeal he finds he can make sales in the oddest of places. A trip to the doctor's office yielded sales to the doctor, the receptionist, and an assistant or two. At his local copier shop, a woman saw him copying Woodimal* patterns, asked him a few questions, and then made a purchase.

Jim gleans ideas for his Woodimals* from sources as varied as garden magazines, glass sculptures, advertisements, and even National Geographic and has produced more than eight hundred patterns. For a complete list of available Woodimal* patterns, please visit www.woodimals.com.

© 2012 by Jim Sweet and Fox Chapel Publishing Company, Inc., East Petersburg, PA.

Woodimals* is an original work, first published in 2012 by Fox Chapel Publishing Company, Inc. The patterns contained herein are copyrighted by the author. Readers may make copies of these patterns for personal use. The patterns themselves, however, are not to be duplicated for resale or distribution under any circumstances. Any such copyring is a violation of copyright law.

ISBN 978-1-56523-748-3

To learn more about the other great books from Fox Chapel Publishing, or to find a retailer near you, call toll-free 800-457-9112 or visit us at www.FoxChapelPublishing.com.

Note to Authors: We are always looking for talented authors to write new books. Please send a brief letter describing your idea to Acquisition Editor, 1970 Broad Street, East Petersburg, PA. 17520.

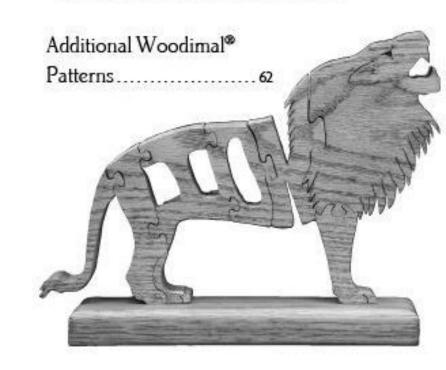
> Printed in the United States of America First printing

Because working with wood and other materials inherently includes the risk of injury and damage, this book cannot guarantee that creating the projects in this book is sale for everyone. For this reason, this book is sale to everyone and the publisher and the author disclaim any liability for any injuries, losses, or damages caused in any way by the content of this book or the reader's use of the tools needed to complete the projects presented here. The publisher and the author urge all readers to thoroughly review each project and to understand the use of all tools before beginning any project.

Featured Puzzles	
Lion	4
Elephant	6
In the Woods	
Bear	8
Bobcat	9
Caribou	10
Deer	11
Duck	12
Eagle	13
Frog	14
Moose	15
Otter	16
Owl	17
Raccoon	
Red Fox	
Wolf	20
In the Water	21
Dolphin	
Humpback Whale	
Marlin	
Penguin	
Shark	
Walrus	
In the Wild	
Chimp	20
Flamingo	
Giraffe	
Hippo	
Iguana	
Panther	
Rhino	
Tiger	
Zebra	36

In Your Home	
Bassett Hound	. 37
Beagle	. 38
Bloodhound	
Boxer	
Bulldog	
Dachshund	
Dalmatian	
Doberman	
German Shepherd	. 45
Golden Retriever	
Great Dane	
Labrador	
Mastiff	
Pit Bull	
Poodle	. 51
Pug	. 52
Sled Dog	
Other Great Woodimal® Puzzles	
Bison	. 54
Bull	. 55
Butterfly	. 56
Cow	
Coyote	
Dove	. 59
Horse	. 60

Rooster..



Featured Puzzles

LION

Puzzles are always popular, but why make an ordinary puzzle when you can make a Woodimal*? To get started, make several copies of the pattern. Cut your wood to size (for easy handling) and sand both sides of the boards. (I use hardwoods to make my Woodimal* puzzles, usually oak, ash, or poplar.) Then, attach the pattern to the wood using the spray adhesive.

Check to make sure your saw blade is square to the table, or the puzzle pieces won't go together properly.

Step 1: Start cutting at the bottom of the rear leg.

Step 2: Scroll saw up the back of the leg, separating the tail from the body.

Step 3: Continue cutting along the back and around the head, leaving excess on the inside of the letter "N" and in the area of the mane.

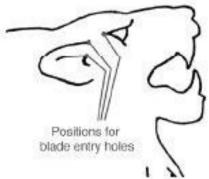
Step 4: Cut down the front of the forward leg. Step 5: Cut out the area between the front and rear leg.

Step 6: After scroll sawing the outline, cut between the letters.

Step 7: Drill a % (3mm)-diameter blade entry hole in the letter 0, insert your blade through the hole and cut out the center of the letter.

Step 8: Finish cutting out the tail.

Step 9: Make your final cuts on the mane and on the inside of the letter "N" to give a ragged appearance.



Step 10: Drill the blade entry holes for the facial features (eye, and two ear details) using the #60 drill bit. Insert your blade and complete the inside cuts.

Step 11: Remove the pattern and lightly sand each piece with 180-grit sandpaper to remove any residue, rough edges, and sharp corners.

Step 12: Clean up the base with the sandpaper and rout the edges with the ¼* (6mm)-diameter round off or ogee router bit.

Finishing

Step 1: Pour the selected stain into an old cake pan or shallow container and put your puzzle pieces and base into the stain.

Step 2: Remove the pieces from the container and place them on an old newspaper, allowing them to drain before wiping off excess stain.

Step 3: Before the pieces are completely dry, wipe them with a paper towel or a rag to remove any drip marks.

Step 4: After the parts are completely dry, assemble the puzzle and transfer details on to it using white carbon paper and a stylus.

Step 5: Using #0 or #1 liner brush and black acrylic paint or a wood burner add a line to show the second rear leg (marked with a dotted line on the pattern). You can also extend the mane down on the front leg if desired.

Step 6: Drill the ½" (3mm)-diameter dowel hole in bottom of rear foot and a matching hole in base as indicated on pattern. Install the dowel and mount the puzzle on base.

Optional Mane Detail

You can use a #0 or #1 liner brush and black acrylic paint or a woodburner to add details to the bottom of the mane (where the leg piece attaches). Freehand draw the details using a sharp pencil and paint or burn over your lines.

MATERIALS:

- Hardwood ¾" to ¾" (19mm to 22mm) thick (I prefer oak)
- 6½" x 10" (165 x 254mm) for lion
- 2' x 8' (51 x 203mm) for base
- %" (3mm)-diameter dowel rod, ¾" (19mm) long
- Minwax Golden Oak Stain
- Black acrylic paint—Delta Ceramcoat 2 oz. (optional)
- Spray adhesive "repositionable" or "temporary bond"

TOOLS:

- #5 scroll saw blade (your choice)
- · #60 drill bit
- · %' (3mm)-diameter drill bit
- · Drill motor or drill press
- Router
- ¼" (6mm) round off or ogee router bits
- #0 or #1 liner brush (optional)
- Stylus and carbon paper for transferring details from pattern
- Woodburner (optional)
- Sandpaper, 180-grit

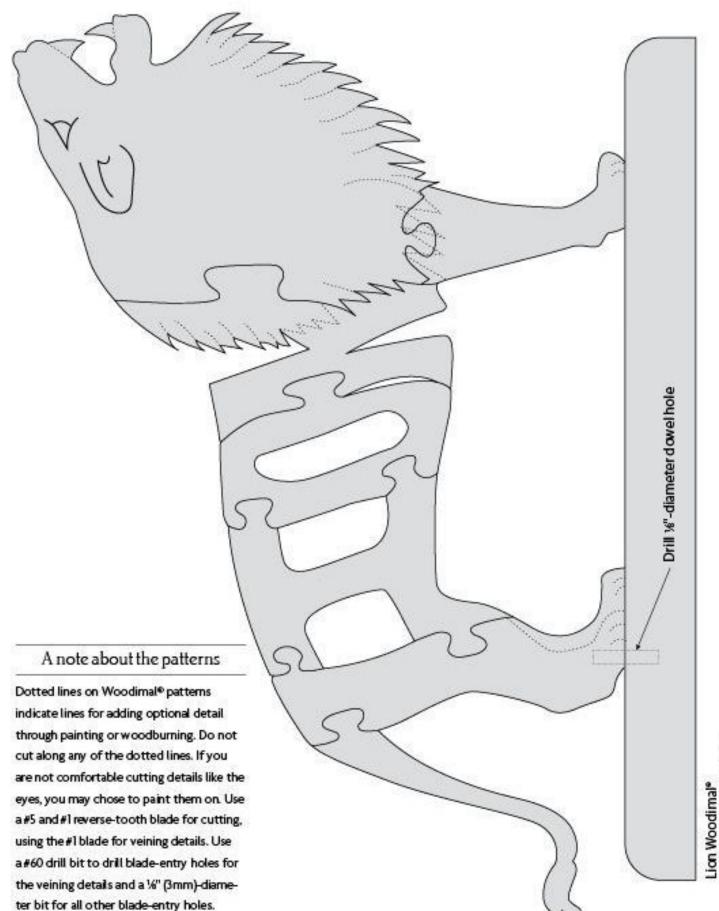
The author used these products for the project. Substitute your choice of branch, tooks, and materials as desired.

Another way to put on patterns

Copy the pattern onto a full-sized (81/2" x II" [216 x 279mm]) label. Then you can just peel off the backing and stick it to your work piece.

Standing the puzzle up

Lay the pieces flat on a piece of plywood to assemble them. Then sit the Woodimal® upright.



Woodimala

ELEPHANT

The Elephant Woodimal* is a fun design that is large enough for the youngest puzzle assembler. What child (or adult) can resist a creative puzzle such as this? And the children won't even know they are learning something!

On the pattern, the dotted lines are for painting reference only—DO NOT cut along those lines. If you are not comfortable scrolling the eyes, paint them on or burn them with a woodburner. Use a #5 reverse-tooth blade for most of the cutting, but use a #1 reverse-tooth blade for the veining details. I use a %" (3mm)-diameter drill bit for the blade-entry holes for the letters and a #60 drill bit for the veining details.

After scrolling, mount the Elephant on a base. I round off the corners of the base with a ¼" (6mm)-radius round-over router bit or a ¼" (6mm)-radius ogee router bit. You can also round it over with sandpaper.

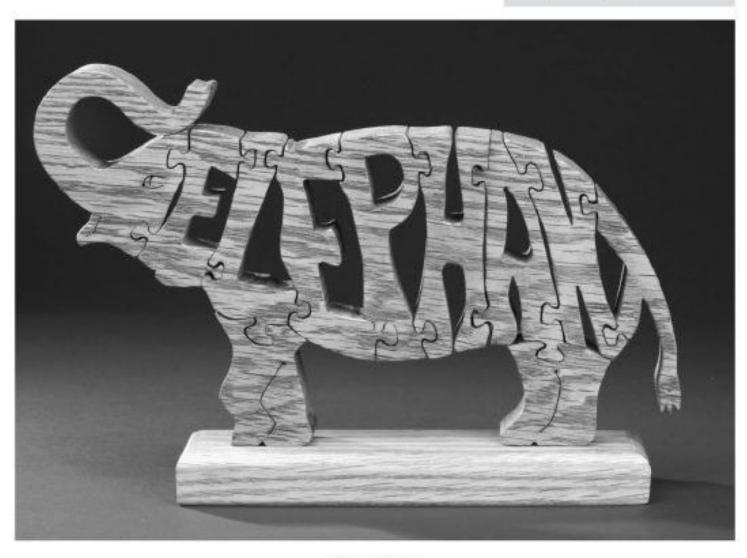
MATERIALS:

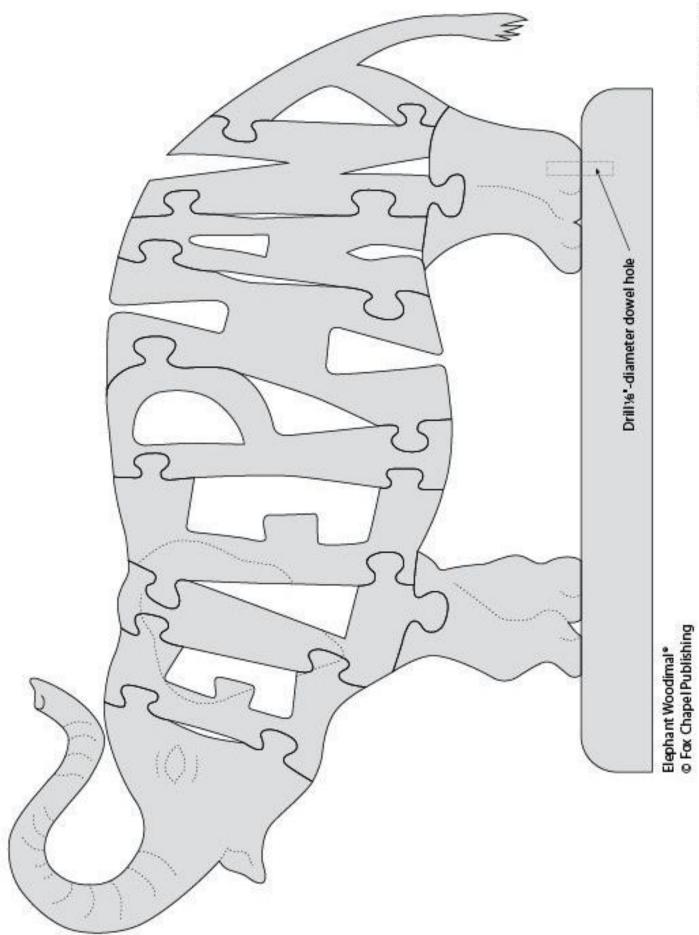
- ¾" or ¾" x 6' x 10' (19 or 22 x 152 x 254mm) hardwood of choice (puzzle)
- ¾" x 2" x 8" (19 x 51 x 203mm) matching hardwood of choice (base)
- Spray adhesive, transfer paper, carbon paper (to transfer pattern to work piece)
- · Finish or paint of choice
- Assorted grits of sandpaper

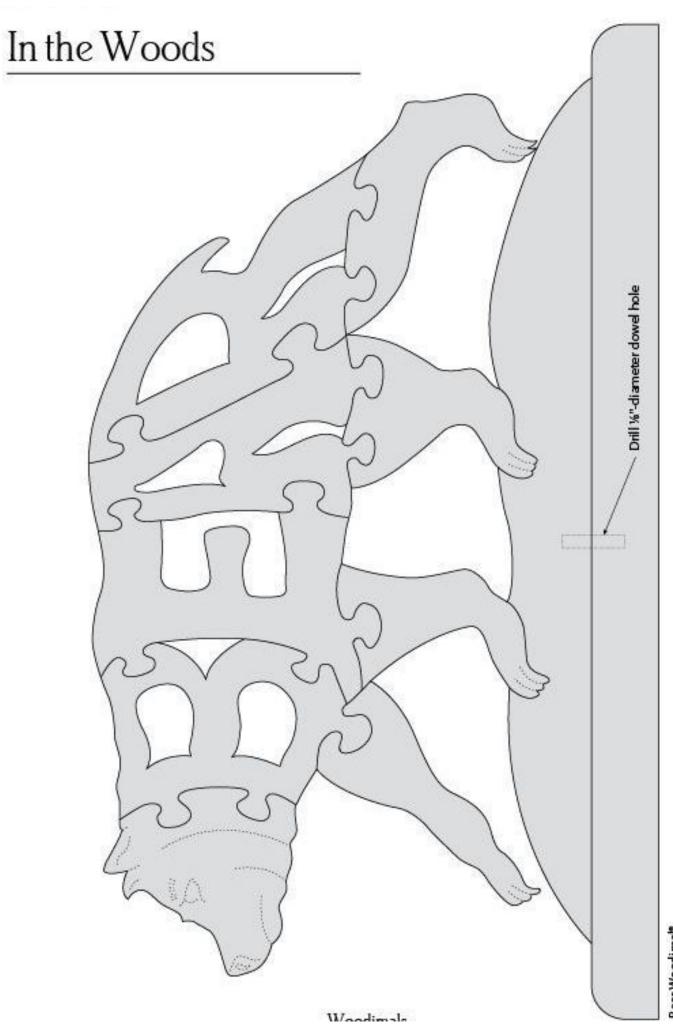
TOOLS:

- #5 & #1 reverse-tooth tooth blades or blades of choice
- Drill with %" (3mm)-diameter and #60 drill bits
- Router with ¼" (6mm)-radius round-over or ogee bit (optional)

The author used these products for the project. Substitute your choice of branch, tooks, and materials as desired.

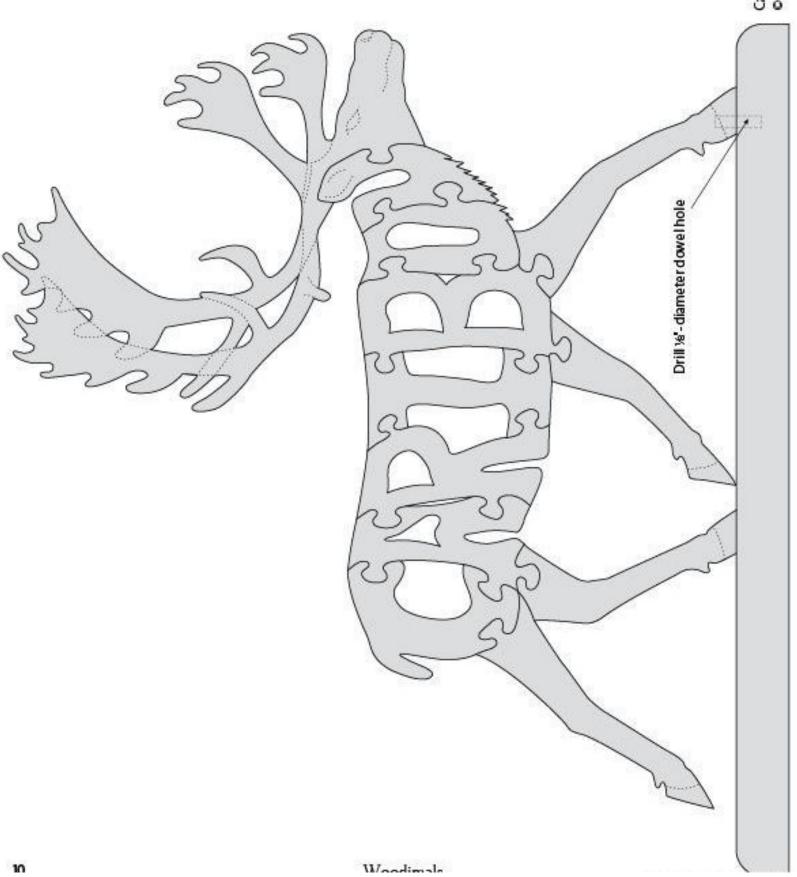


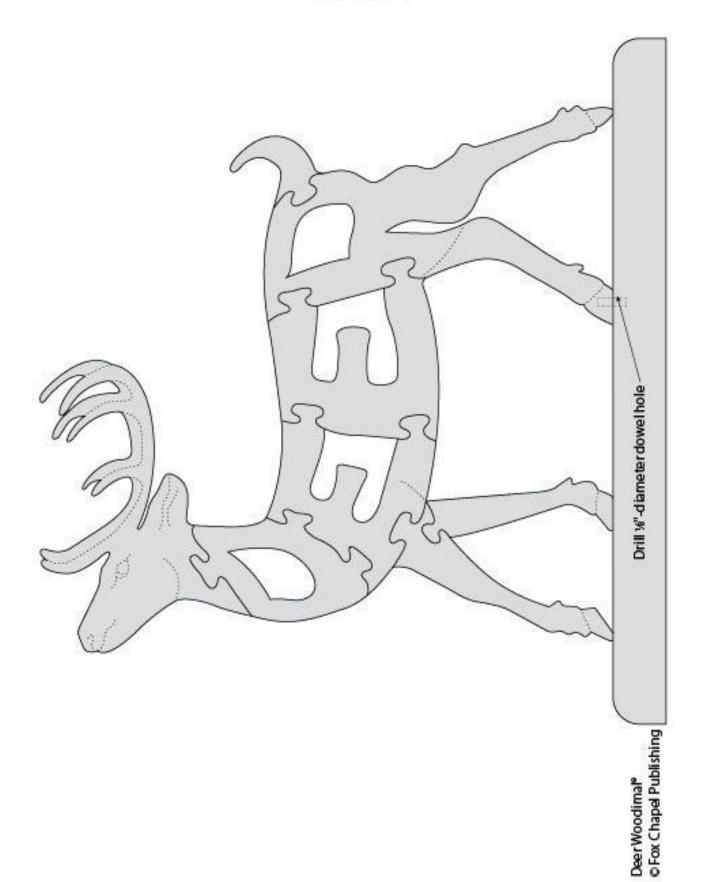


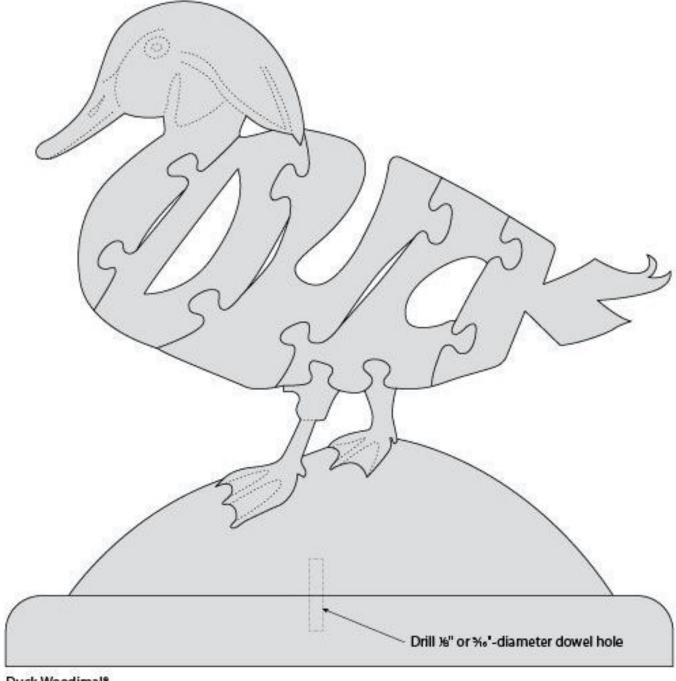


Bear Woodimal* © Fox Chapel Publishing

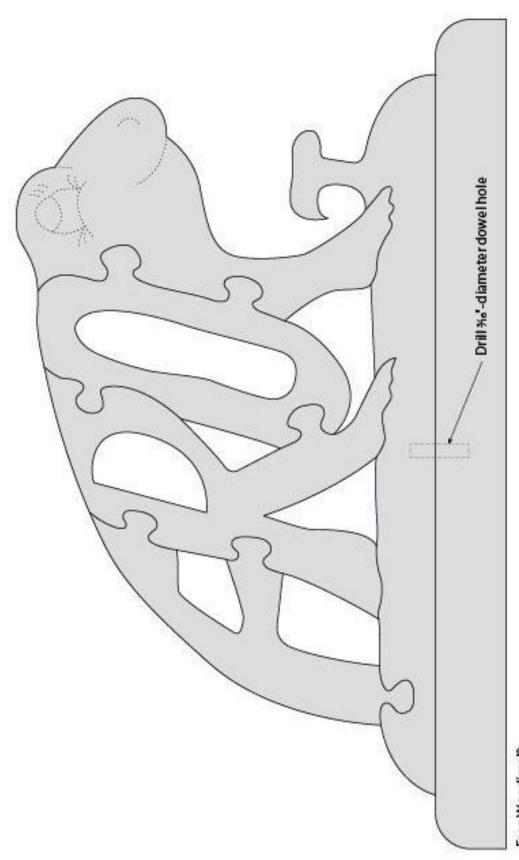
Woodimala



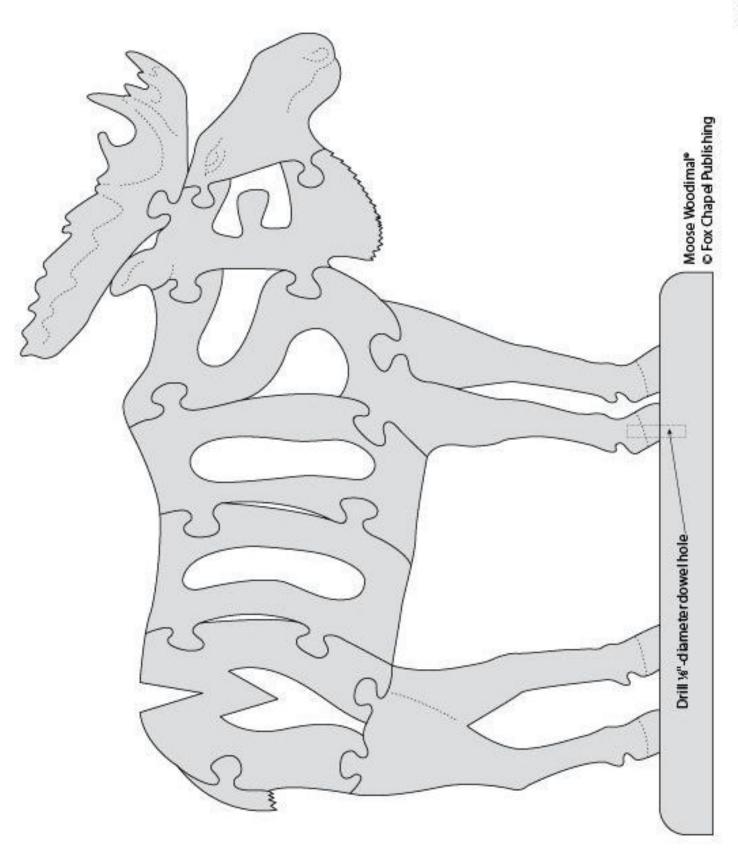




Duck Woodimal*
© Fox Chapel Publishing



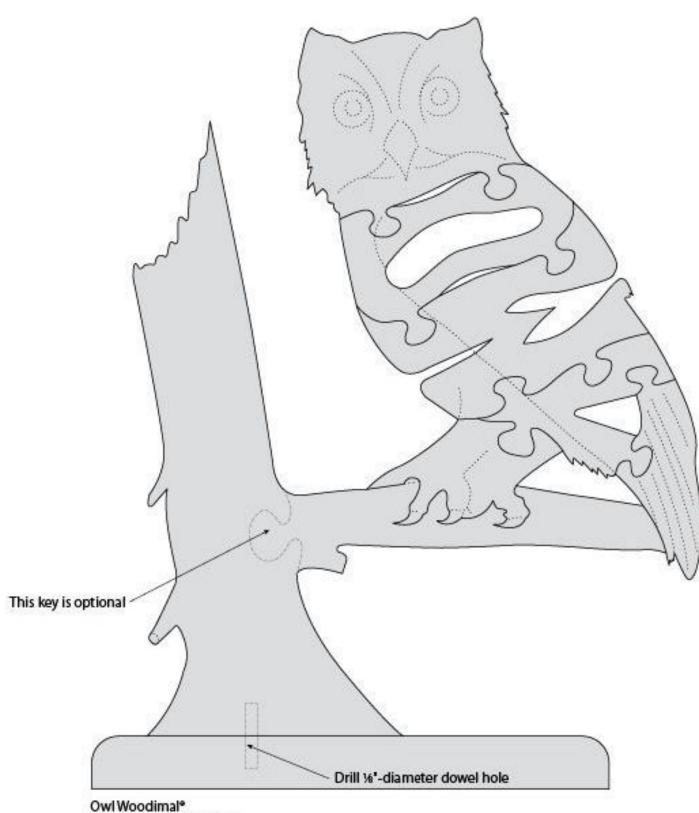
Frog Woodimal* © Fox Chapel Publishing



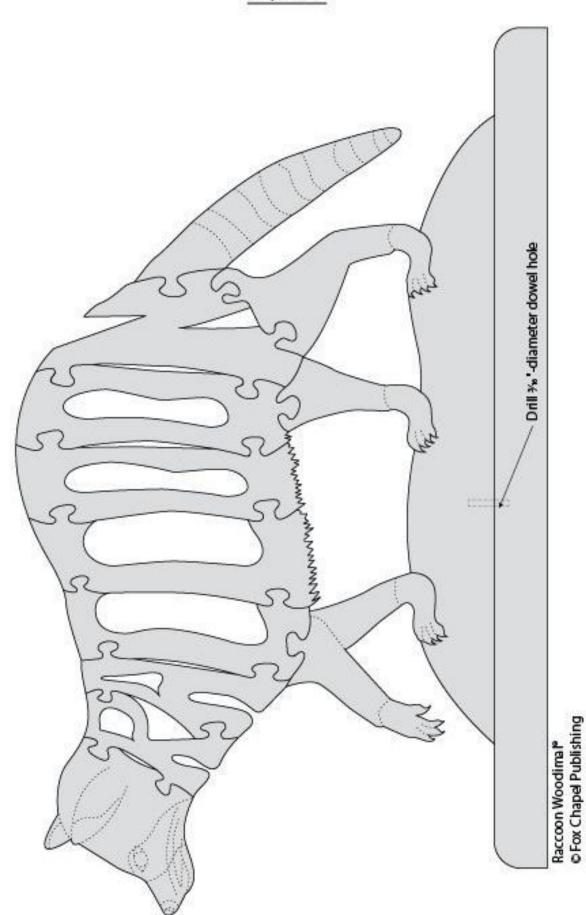
Otter Woodimal*
© Fox Chapel Publishing

the illusion of depth.

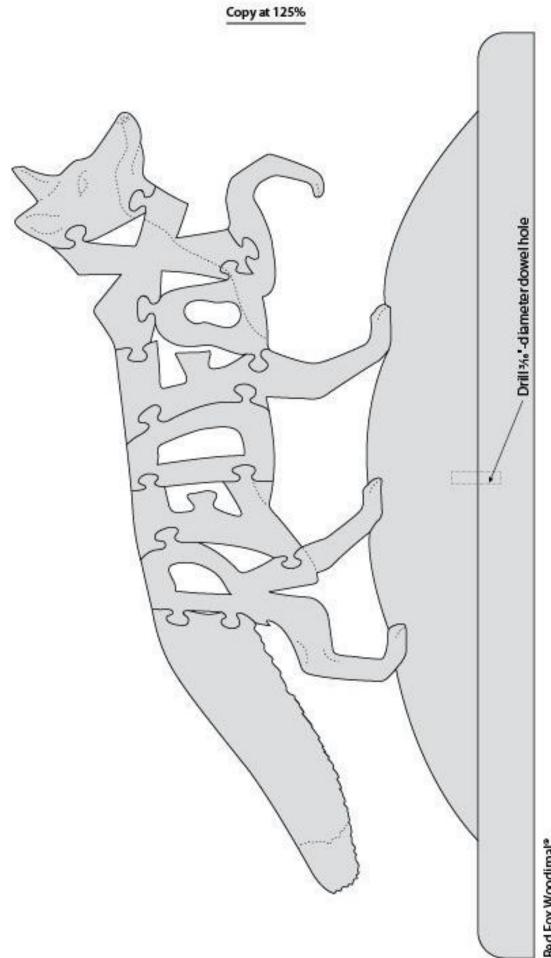
(indicated with dotted lines). Alternatively, paint each rock with a slightly darker stain or color than the one in front of it to create



© Fox Chapel Publishing

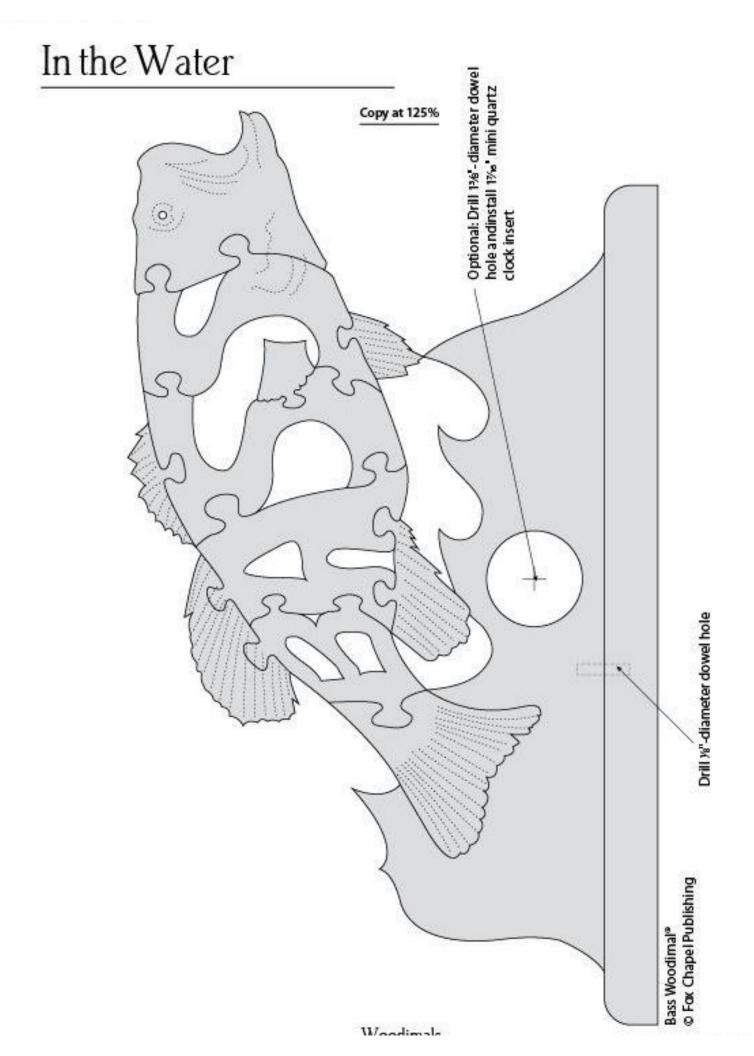


18



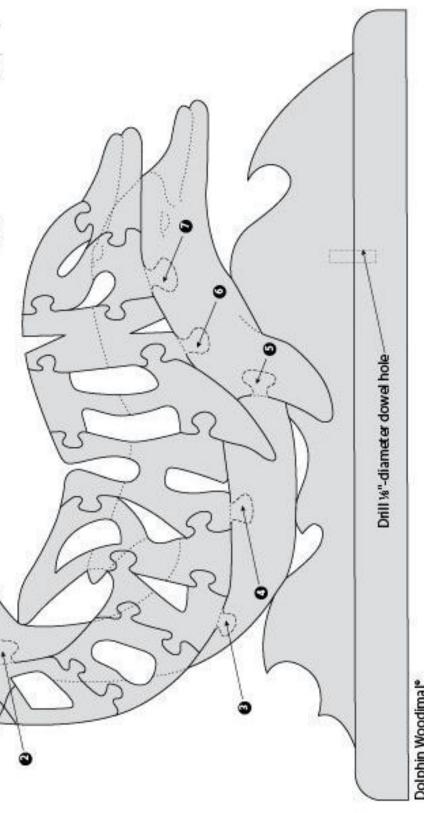
Red Fox Woodimal*
© Fox Chapel Publishing

WolfWoodimal® © Fox Chapel Publishing

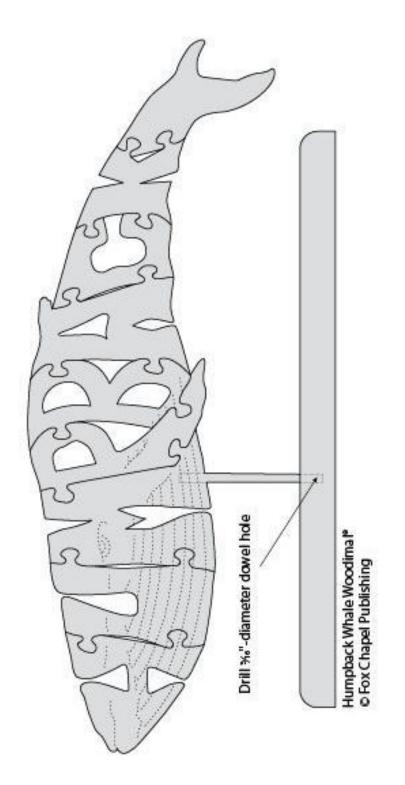


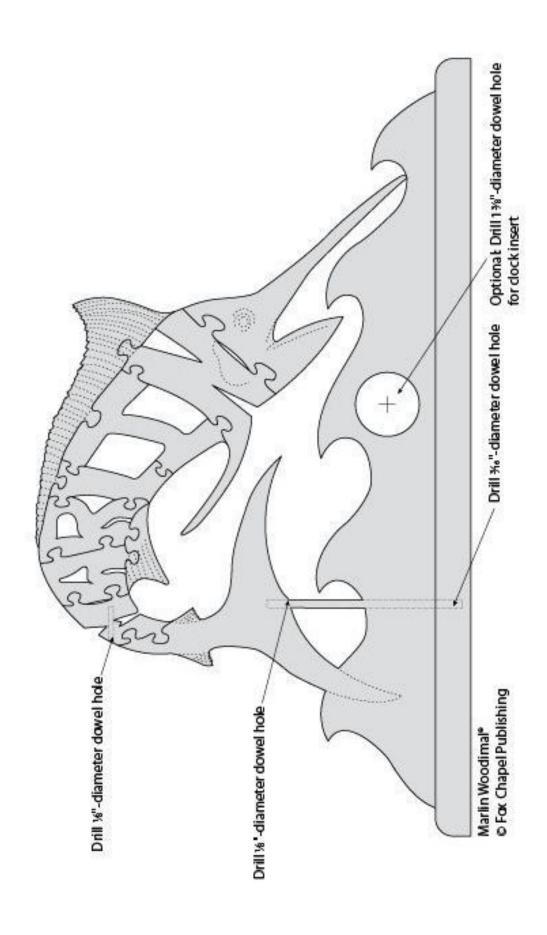
Creating the dual image

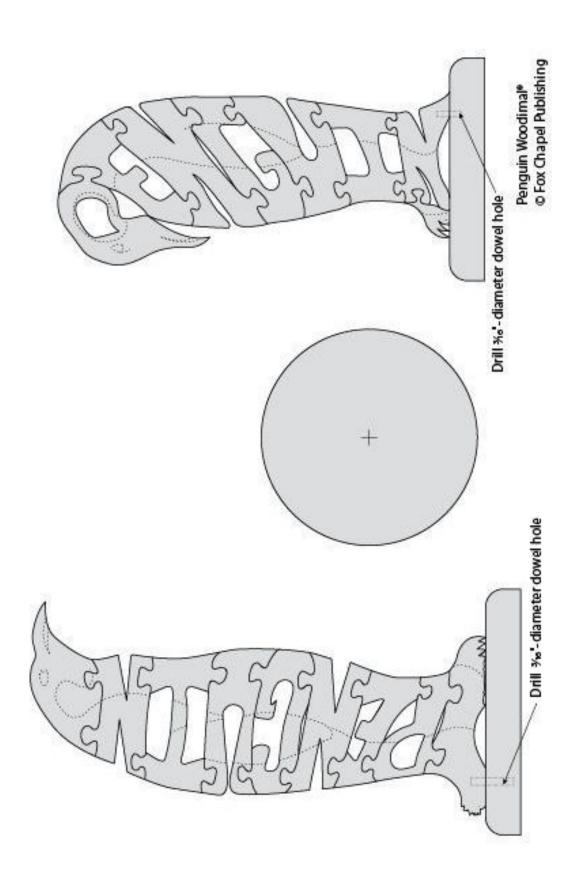
Keys #1 through #7, indicated by the dotted lines, hold the upper and lower dolphins together. To make the lower dolphin appear to be in the background, apply a slightly darker shade of paint or stain to it. Note: Keys #1 through #7 should also be stained with the darker color so they will not be as visible. Alternatively, cut off keys #1 through #4 and keys #6 and #7 and move them back approximately ¼"—½" the thickness of the puzzle and glue in place.

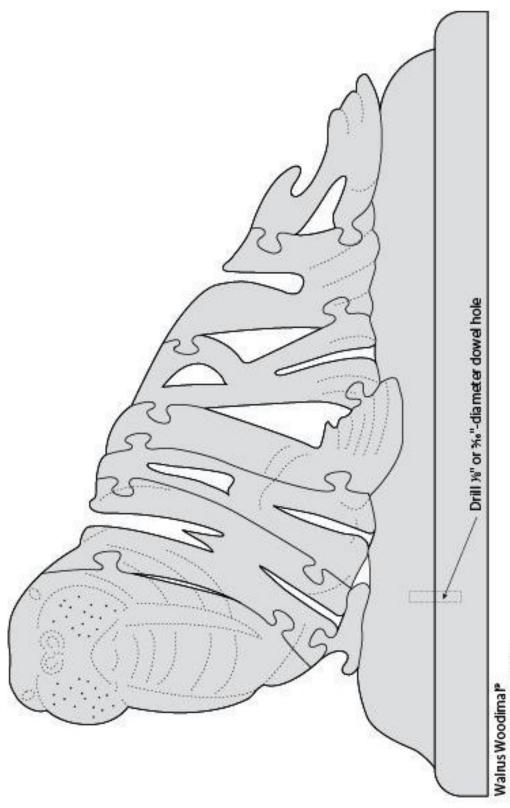


Dolphin Woodimal*
© Fox Chapel Publishing

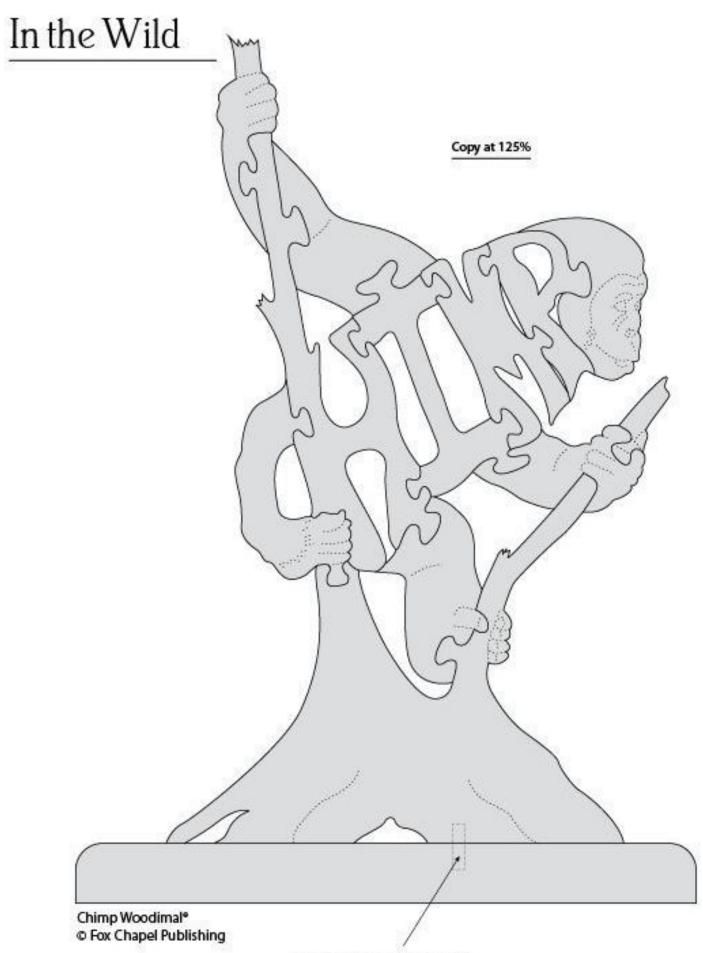






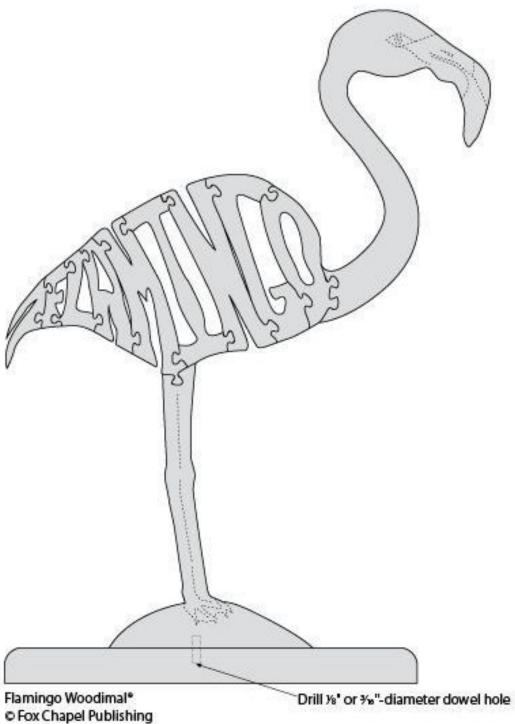


Walrus Woodima P
© Fox Chapel Publishing



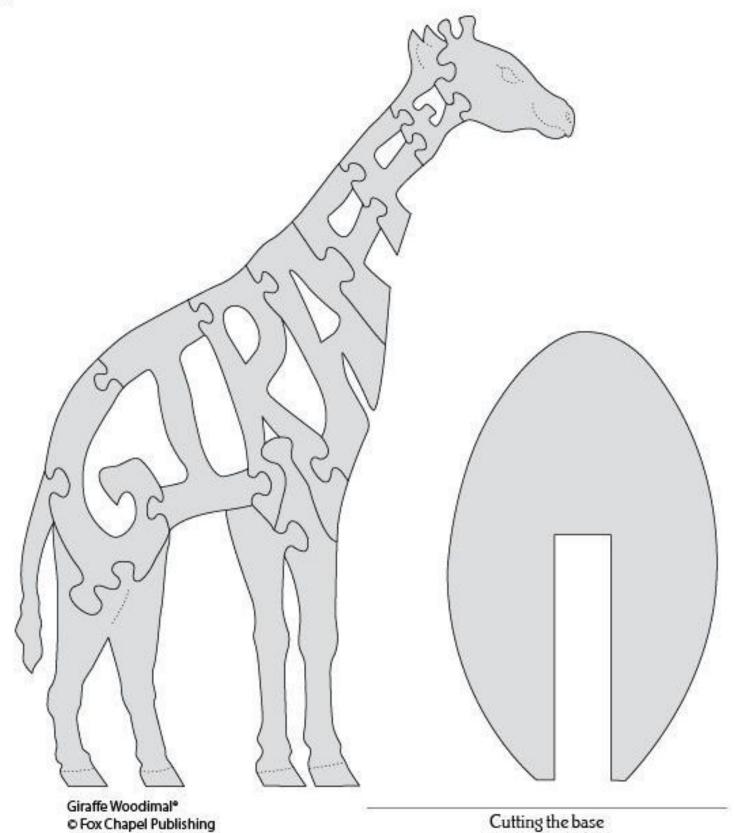
Drill ¾"-diameter dowel hole



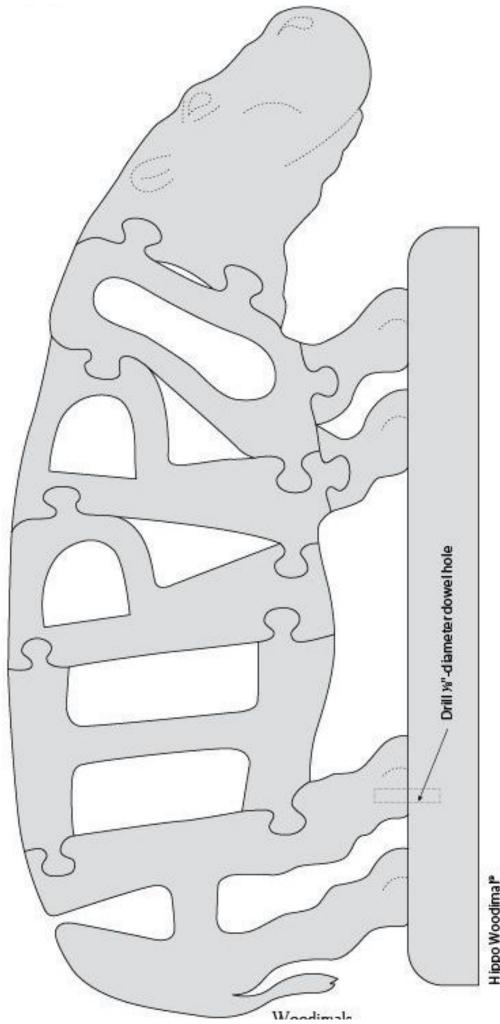


Wood grain

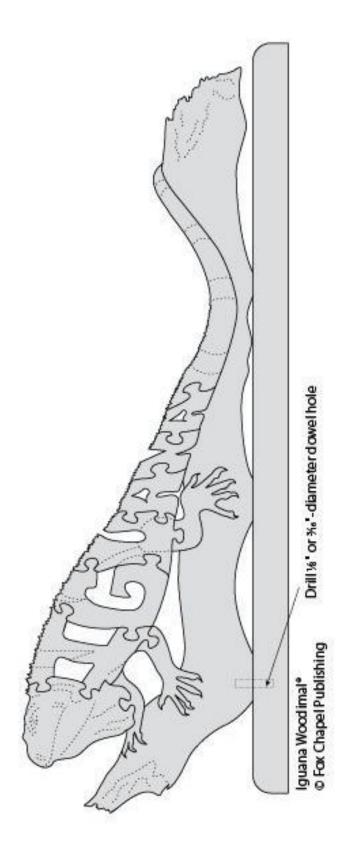
Make sure the wood grain of all your puzzle pieces runs parallel to the wood grain for the flamingo's legs to prevent breakage.

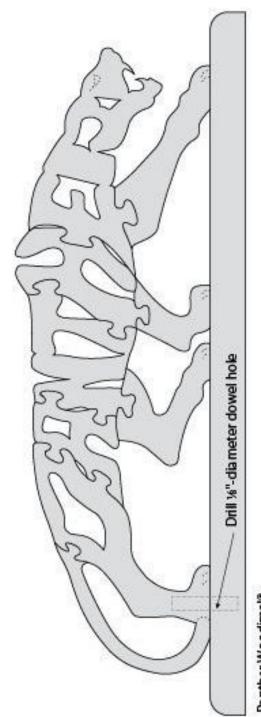


The thickness of the slot cut in the base is determined by the thickness of the stock you use for the giraffe puzzle.

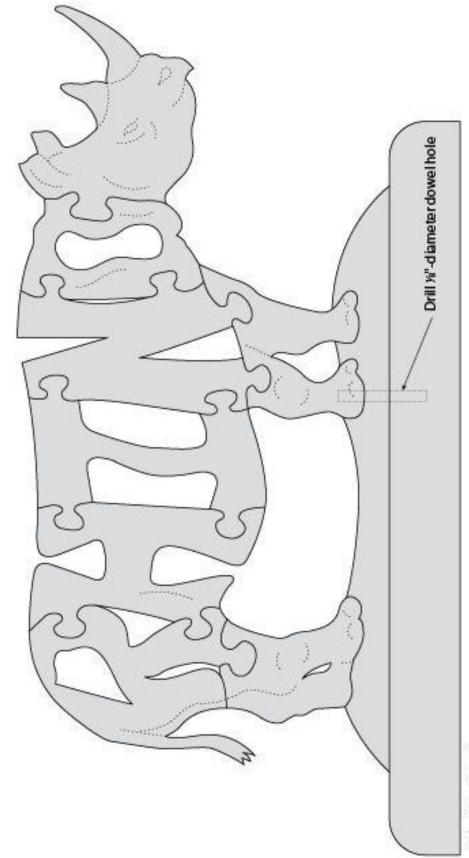


Hippo Woodima P © Fox Chapel Publishing

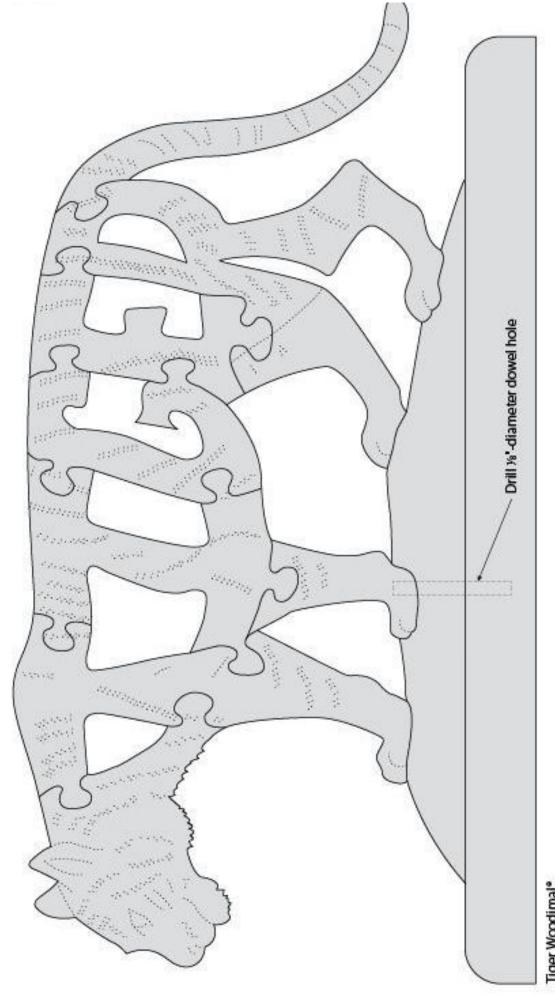




Panther Woodimal* © Fox Chapel Publishing



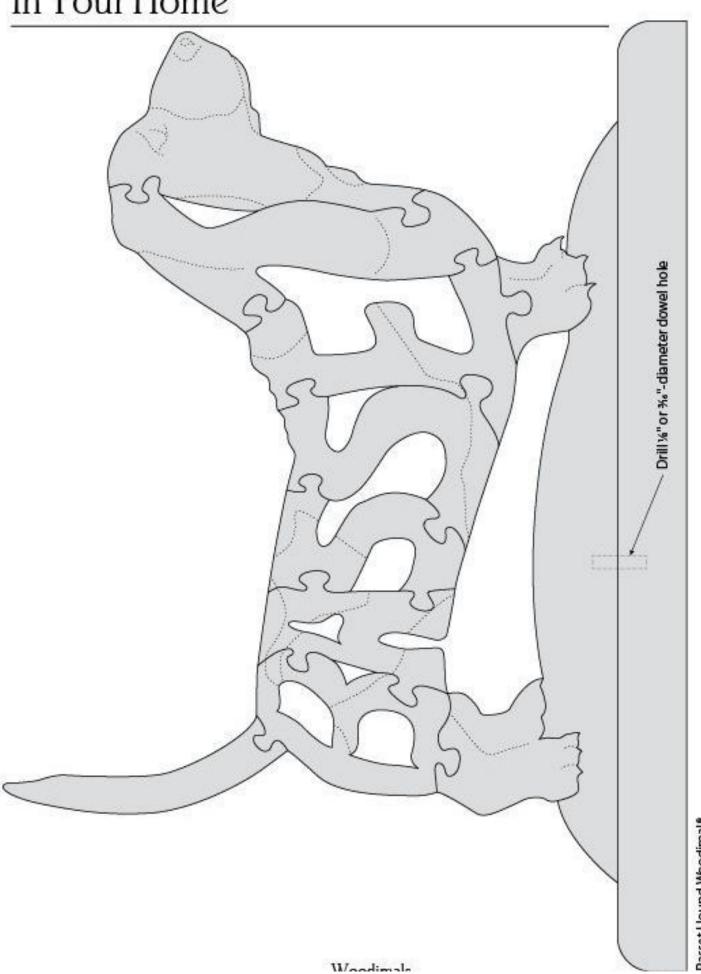
Rhino Woodimal* © Fox Chapel Publishing



Tiger Woodimal® © Fox Chapel Publishing

Drill 3's'-diameter dowel hole

In Your Home

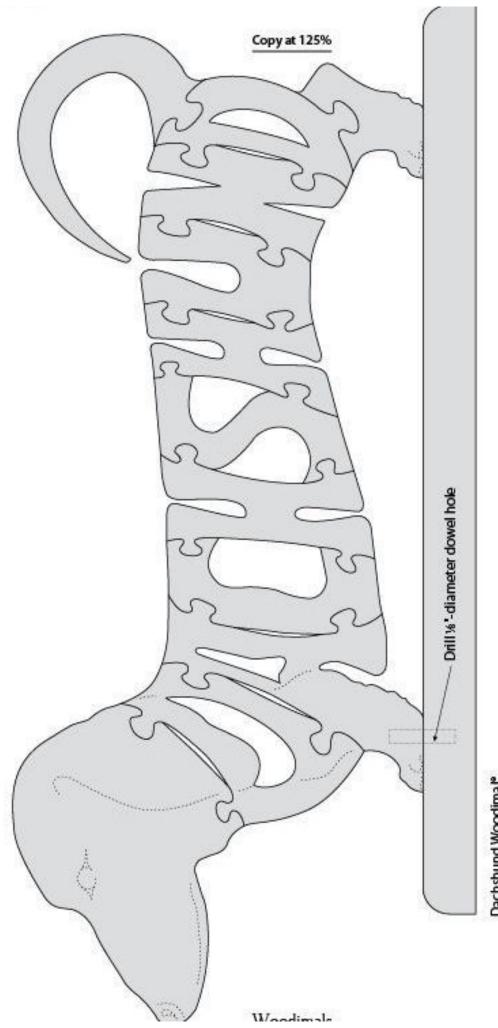


Basset Hound Woodimal® © Fox Chapel Publishing

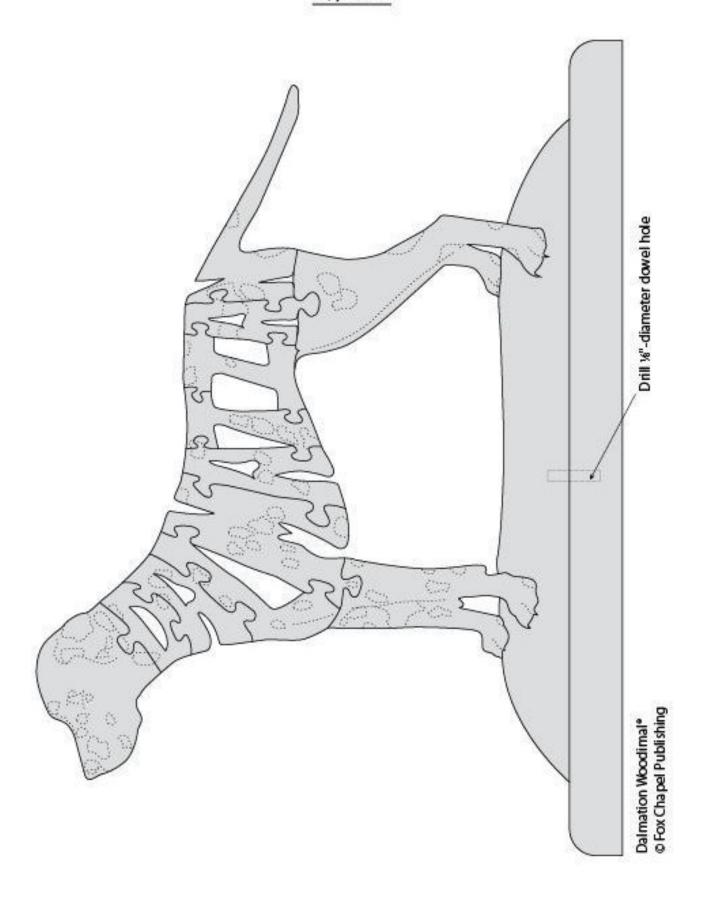


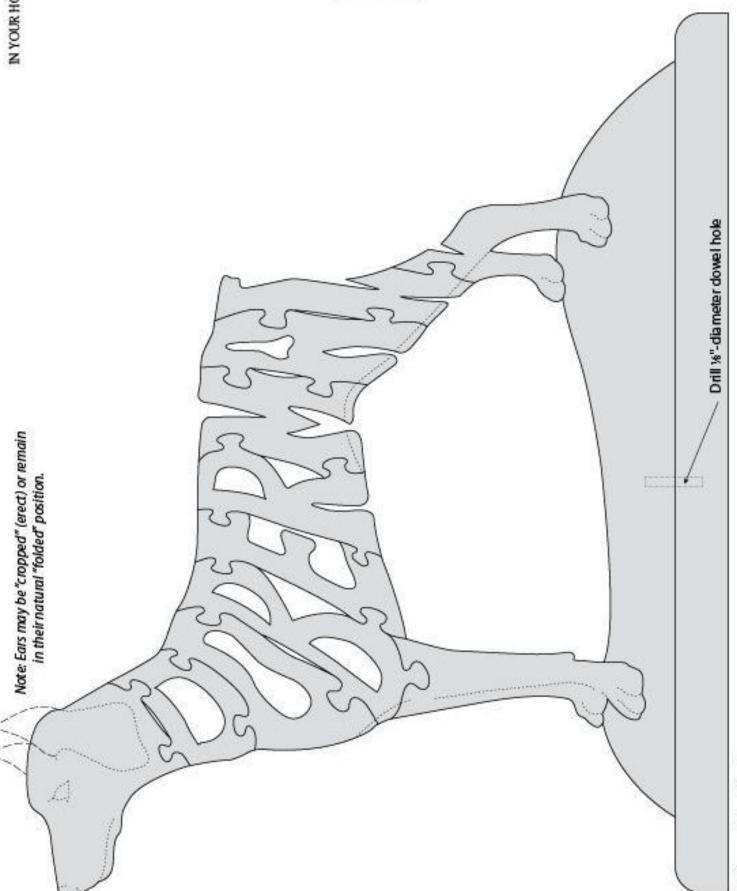
Beagle Woodimal* © Fox Chapel Publishing

Woodimale

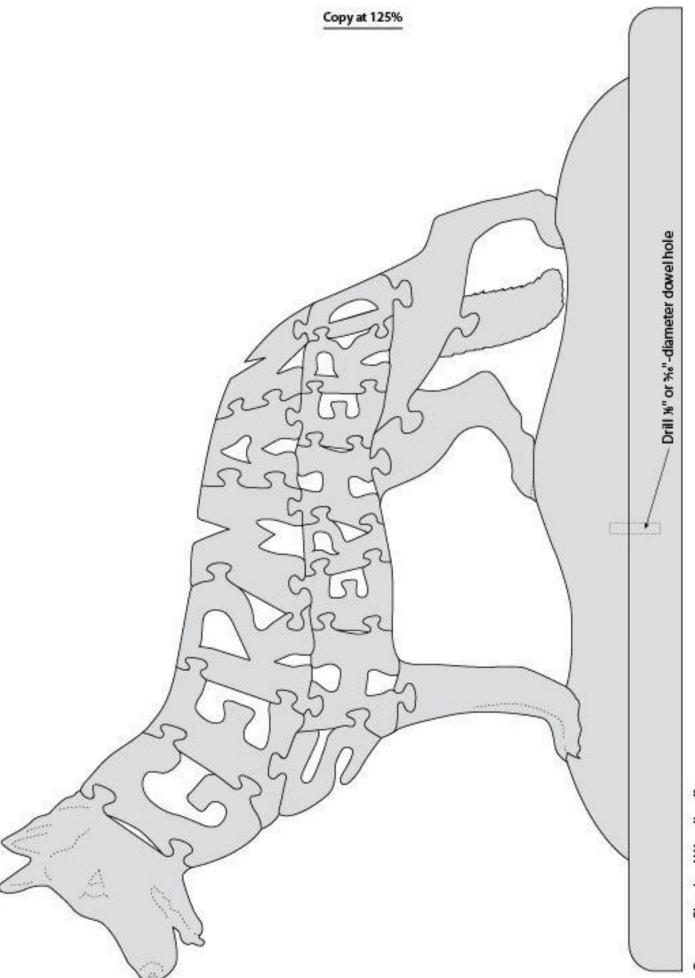


Dachshund Woodimal* © Fox Chapel Publishing

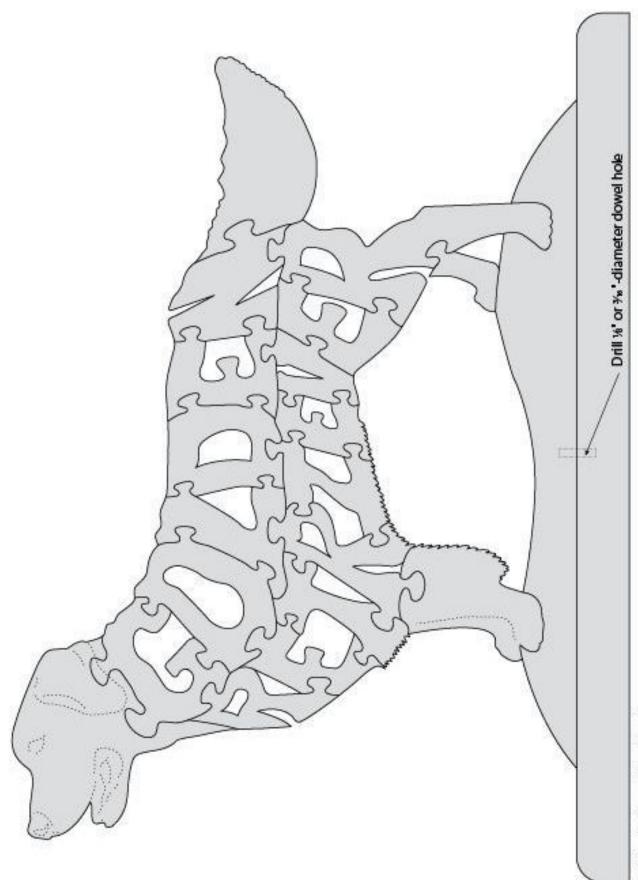




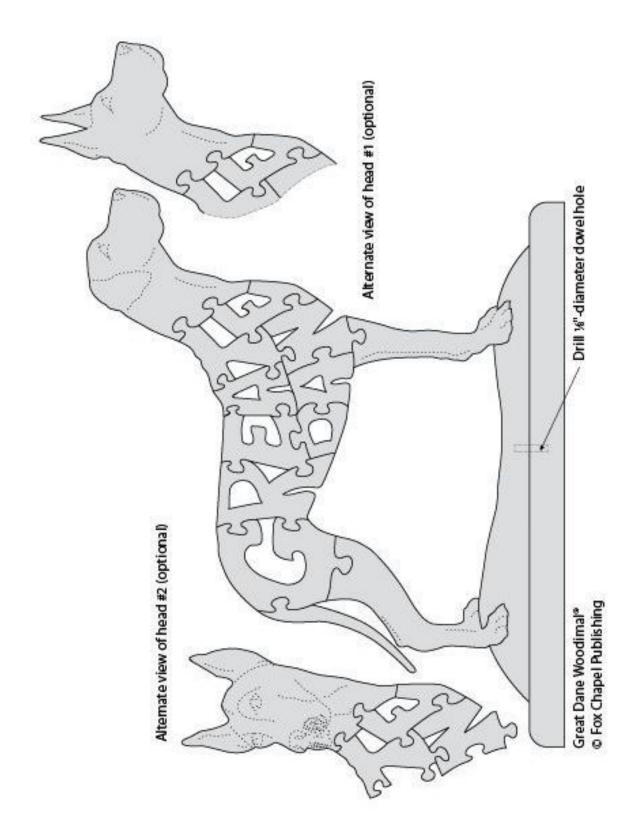
Doberman Woodimal® © Fox Chapel Publishing

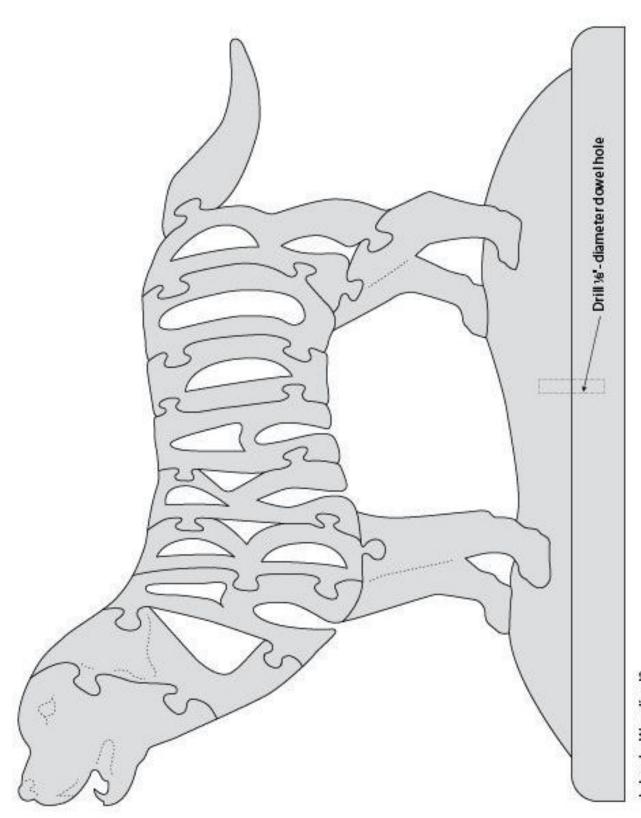


German Shepherd Woodimal* © Fox Chapel Publishing

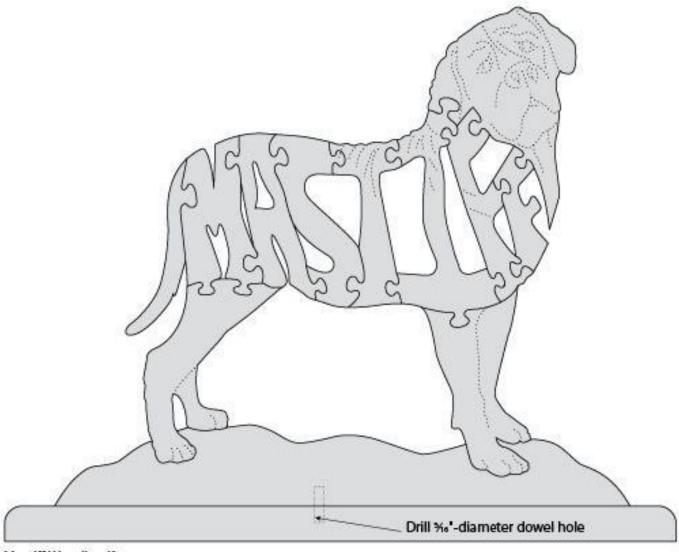


Golden Retriever Woodimal* © Fox Chapel Publishing

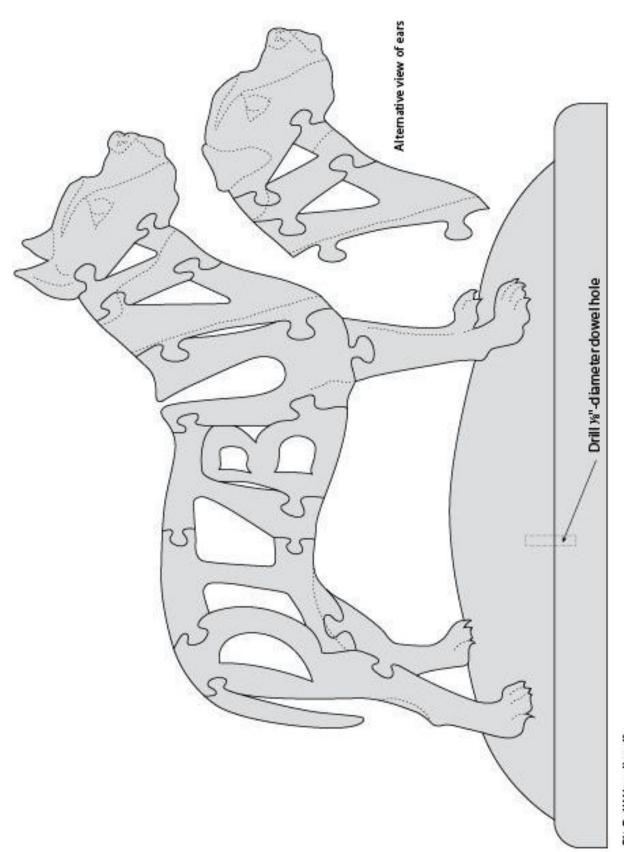




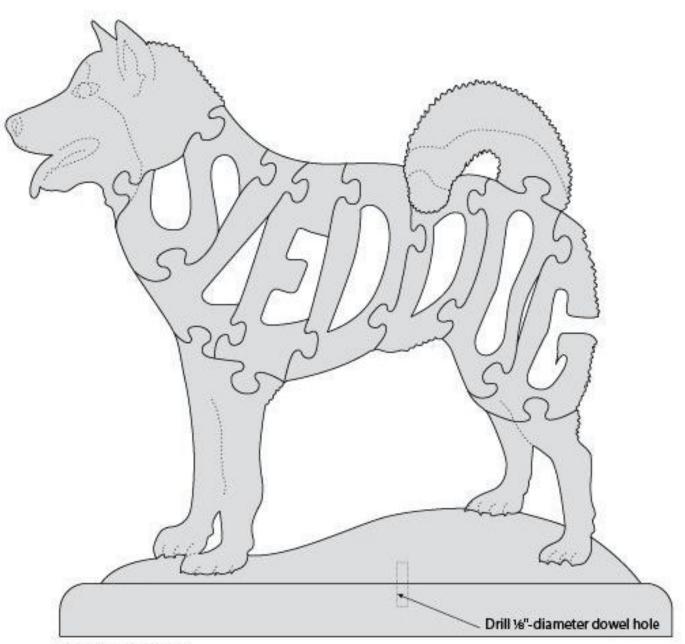
LabradorWoodimal* © Fox Chapel Publishing



Mastiff Woodimal*
© Fox Chapel Publishing

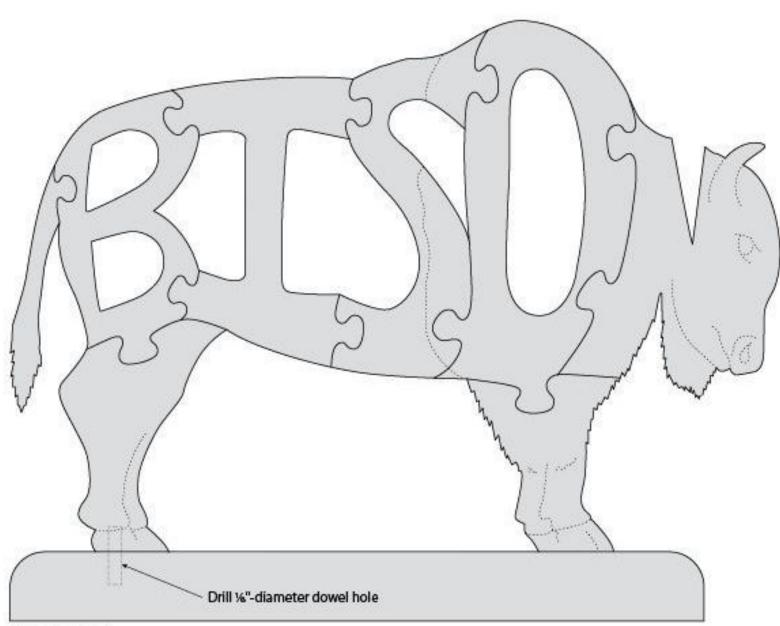


Pit Bull Woodimal* © Fox Chapel Publishing

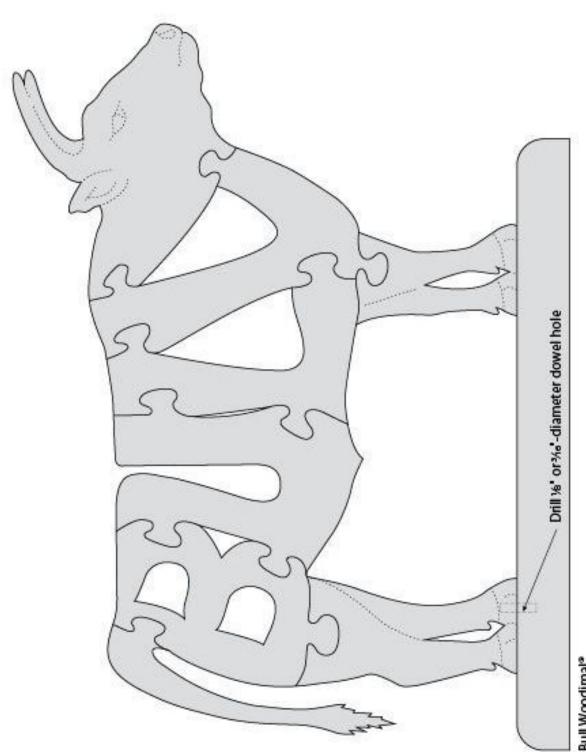


Sled Dog Woodimal® © Fox Chapel Publishing

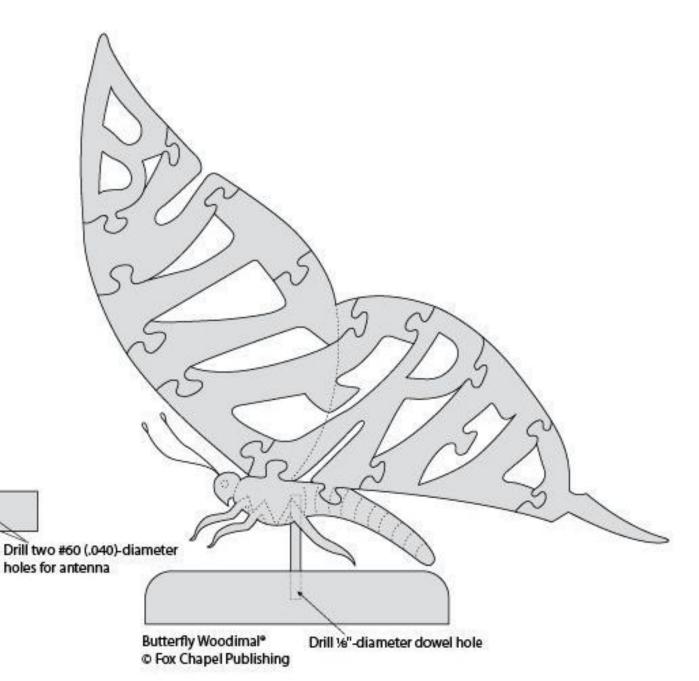
Other Great Woodimal Puzzles

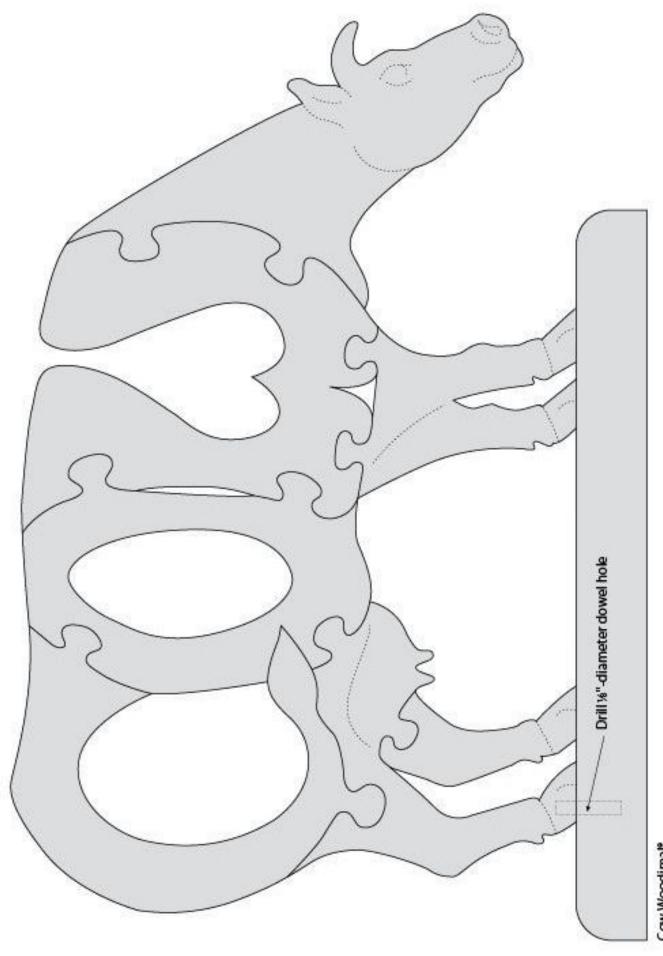


Bison Woodimal® © Fox Chapel Publishing

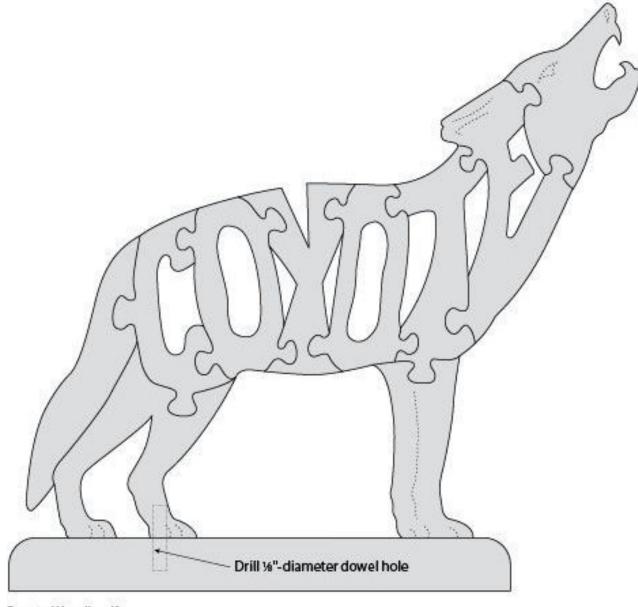


Bull Woodimal* © Fox Chapel Publishing

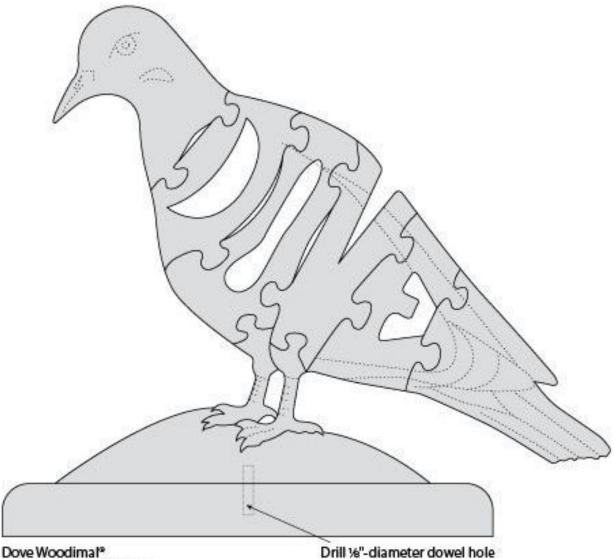




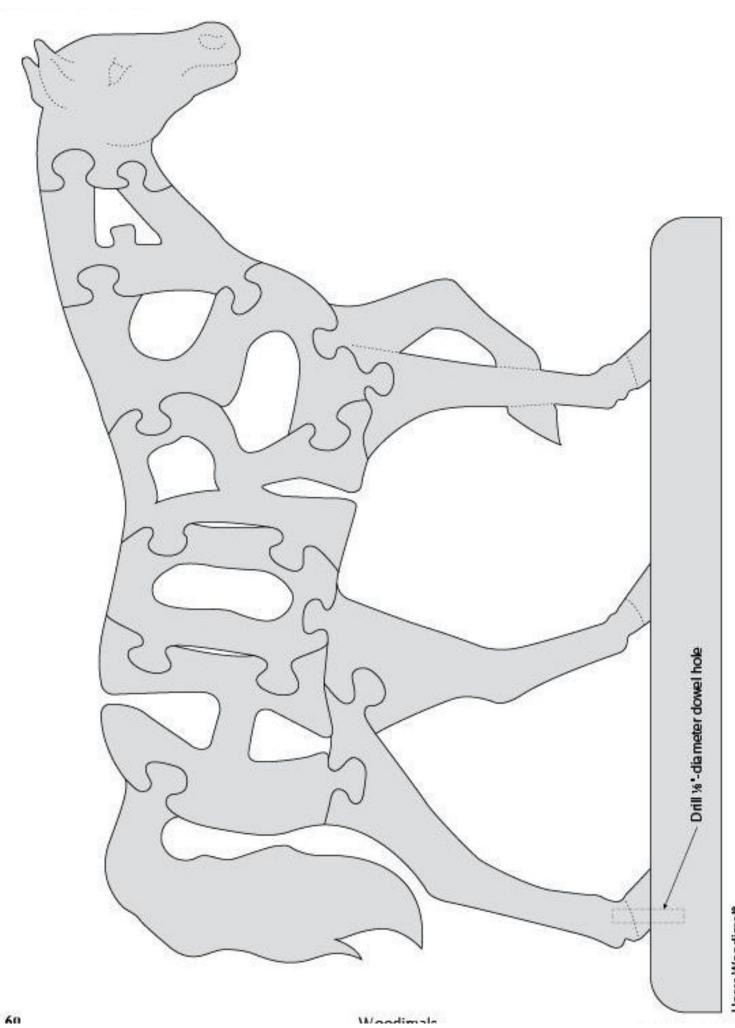
Cow Woodimal*
© Fox Chapel Publishing



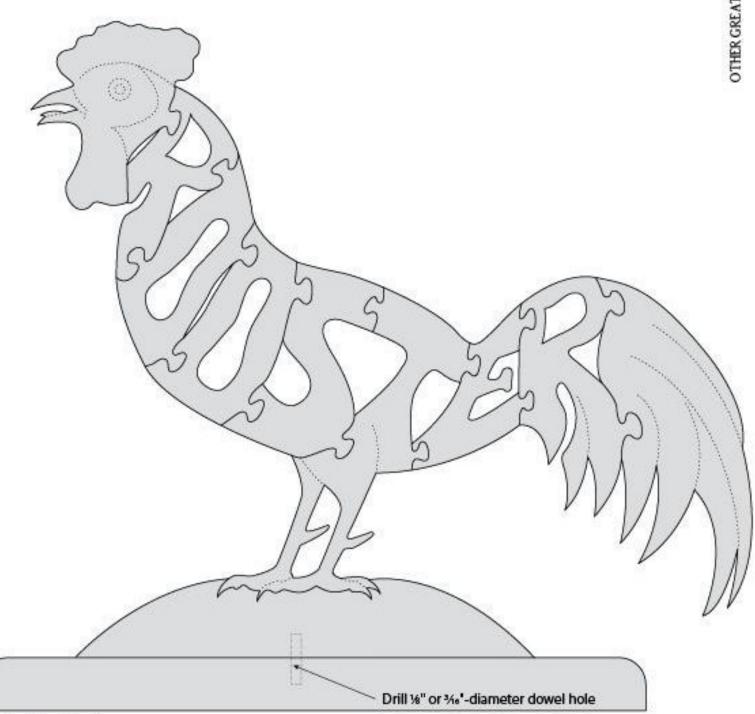
Coyote Woodimal^o © Fox Chapel Publishing



Dove Woodimat® © Fox Chapel Publishing



Horse Woodimal* © Fox Chapel Publishing



Rooster Woodimal*
© Fox Chapel Publishing

Additional Woodimal® Patterns

The following Woodimal® patterns are available for purchase at www.woodimals.com.

Afghan Hound Airedale (Nose to Tail) Airedale (Tail to Nose) Akita Alaskan Malamute Alaskan Malamute (Polar Inuit) Alligator Alligator (Gator) Alpaca Alsatian American Buffalo American Eskimo American Staffordshire Terrier (American) American Staffordshire Terrier (Staffordshire) American Staffordshire Terrier (Terrier) American Water Spaniel Ant Anteater Antelope Antelope (Pronghorn) Ape Armadillo Australian Cattle Dog Australian Cattle Dog (Australian) Australian Cattle Dog (Cattle Dog) Australian Shepherd Australian Shepherd (Aussie) Australian Terrier Badger Basenji Bass (Lakeside) Bear (Standing) Bearded Collie (Beardie) Beaver

Bedlington Terrier

(Bedlington)

Bedlington Terrier (Terrier) Belgian Sheepdog Belgian Tervuren Belgian Tervuren (Belgian) Belgian Tervuren (Tervuren) Bemese Mountain Dog (Berner) Bemese Mountain Dog (Bernese) Bemese Mountain Dog (Mountain Dog) Bichon Frise (Bichon) Bichon Frise (Frise) Bison Blue Heeler Bluefish Bluejay Bobcat Bobwhite Border Collie Border Terrier (Head turned right) Border Terrier (Profile) Border Terrier (Terrier) Borzol Boston Terrier **Bouvier Des Flanders** Boykin Spaniel Briard Brindled Gnu Brittany Broncho Bronco Brussels Griffon Buffalo Bull (Rear legs raised) **Bull Mastiff Bull Terrier**

Bulldog (Marines)

Bulldog (USMC)

Burro Buzzard Cairn Terrier Camel Cardinal Cat (Persian) Catamount Catfish Cavaller King Charles Spaniel (Cavaller) Cavaller King Charles Spaniel (King Charles) Chesapeake 1 Chesapeake 2 Chickadee Chihuahua Chihuahua (Long haired) Chinese Crested Chipmunk Chipmunk (Chippie) Chow Chow Clydesdale Cockatiel (Nose to Tail) Cockattel (Tail to Nose) Cockatoo Cocker Spaniel Coelacanth Collie Corgi Cougar Cougars (Single image) Crow Dachshund (Tail to Nose) Dandle Dinmont (Dandle)

Dragon (Winged, large) Dragon (Winged, small) Drake Dressage (Horse and rider) Eagle Eagle (Wings raised) Elephant (Africa) Elephant (Tail to Nose) Elephant Seal Elk (Standing) Elk (Walking) Elkhound Emu English Pointer **English Setter** English Sheepdog English Toy Spaniel Ermine Ferret Flat Coated Retriever Flatfish Flounder Fluke Fox Fox Terrier 1 Fox Terrier 2 French Bulldog Gander German Shepherd (Police K9) German Shorthair Pointer German Wirehair Pointer Glia Monster Glla Monster (Glla) Giraffes (Dual Image) Goat Goose Gordon Setter Gortlla

Goshawk Grackle Grasshopper Gray Whale **Great Pyrenees** Great Swiss Mountain Dog (Great Swiss) Great Swiss Mountain Dog (Mountain Dog) Greyhound Griffin 1 Griffin 2 Griffon Grizzly Grizzly (On hind legs) Grizzly Bear Groundhog Gryphon Guinea Pig Hamster Harrier Havanese Hawk Helnz 57 Hen Hereford Heron Horse (Shire) Horse (Standing) Hound Hummingbird (Hummer) Humpback Whale Husky Hyena I Heart Dogs (Lying down) I Heart Dogs (Sitting) I Heart Mice

I Heart Mutts

I Heart Pigs

Irish Setter

Dandle Dinmont

(Dinmont)

Dinosaur

Dolphin 1

Dolphin 2

Donkey



How Do You Spell Fun? W-o-o-d-i-m-a-l!

Woodimals* are entertaining puzzles made in the shapes of familiar animals that incorporate the letters of the animal's name right in the design. They put a delightful spin on the dassic scroll saw puzzle by appealing to two different levels of perception at once—the shape of the creature plus a clever presentation of its name. Woodimal creator Jim Sweet shows you how to make 56 of his most intriguing critters in this pattern-packed book.

Woodimals spells fun for all ages. Educational, decorative and enjoyable, they provide hours of fun for anyone with a scroll saw who likes to make wooden puzzles. Turn your workshop into a classroom for your children or grandchildren, and present them with an engaging and interactive learning experience. These interlocking animal puzzles make perfect gifts for young children just learning how to read.

The books starts out with two step-by-step projects to introduce you to the basics of scrolling and mounting a Woodimal puzzle, along with recommendations about the types of wood to use, adding details, and finishing. The patterns are drawn in fine lines, making cutting with a thin scroll saw blade both easy and achievable.

INSIDE YOU'LL FIND 56 CREATIVE ANIMAL PUZZLE PATTERNS, INCLUDING:

- Popular Pets—Golden Retriever, Labrador, and Poodle Patterns
- Farm Animals—Rooster, Cow, and Horse Patterns
- Sea Creatures—Dolphin, Whale, and Shark Patterns
- · Woodland Wildlife-Deer, Wolf, and Fox Patterns
- · American Classics—Bison, Eagle, and Bear Patterns
- Exotic Animals—Flamingo, Giraffe, and Tiger Patterns



