Original "2-in-1" Designs for 3D Animals and People

Sam Keener
# Table of Contents

## Cutting Techniques
- Buffalo & Swooping Eagle .................................................. 1
- Deer Bust & Moonlight Wolf ............................................... 5
- Standing Deer & Swooping Eagle ......................................... 6
- Swooping Eagle & Howling Wolf ........................................ 7
- Perched Eagle & Standing Deer ........................................... 8
- Howling Wolf & Standing Deer ............................................ 8
- Cougar & Standing Deer ...................................................... 8
- Standing Deer & Mountaintop ............................................ 8
- Swooping Eagle & Liberty Bell ........................................... 9

## Patterns
- Swooping Eagle & Cougar ................................................. 9
- Swooping Eagle & Mountaintop Ram .................................... 9
- Cactus & Desert Coyote ...................................................... 9
- Cougar & Howling Wolf ..................................................... 10
- Howling Wolf & Mountaintop Ram ....................................... 10
- Cougar & Mountaintop Ram ............................................... 10
- Deer Bust & Wild Turkey .................................................... 10
- Perched Eagle & Howling Wolf ........................................ 11

## Animals
- Pine Tree & Perched Eagle ............................................... 11
- Owl & Perched Eagle ........................................................ 11
- Tractor & Cow ............................................................... 12
- Pig & Tractor ................................................................ 12
- Pig & Cow ................................................................ 12
- Sheep & Tractor ............................................................. 12
- Maple leaf & Goose .......................................................... 13
- Cat & Mouse ................................................................. 13
- Elephant & Donkey .......................................................... 13
- Dog & Cat ................................................................. 13

## Sports
- Golfer ........................................................................ 14
- Baseball Player ............................................................. 15
- Batter & Pitcher ............................................................. 16
- Skier & Bobsled ............................................................. 16
- Tennis Serve & Backhand ................................................ 16
- The Foul & Foul Shot ...................................................... 16
- Man Golfer Approach & Putt .......................................... 17
- Lady Golfer Approach & Putt ........................................... 17
- Golfer & Caddy ............................................................ 17
- Golf Ball Tee & Golf Bag ................................................ 17
- Quarterback & Receiver ............................................... 18
- Football & Helmet ......................................................... 18

## Outdoor Sports
- Fisherman ................................................................ 19
- Hunter & Standing Deer .................................................. 20
- Hunter & Grizzly Bear .................................................... 21
- Cougar & Tracker .......................................................... 21
- Bear & Tracker .............................................................. 21
- Hunter & Wild Turkey .................................................... 21
- Hunter & Antelope Head .................................................. 22
- Hunter & Stag Head ......................................................... 22
- Hunter & Standing Deer .................................................. 22
- Fox with Hound & Huntsman .......................................... 22
- Fish & Fisherman .......................................................... 23
- Fish & Lure ................................................................. 23
- Hunter & Whale ........................................................... 23
- Giraffe & Hunter ........................................................... 23
- Hunter with Dog & Flight of Ducks ................................... 24
- Hunter & Duck ............................................................. 24

## Nautical
- Anchor & Sailboat .......................................................... 25
- Dolphin & Seahorse ....................................................... 26
- Sailboat & Dolphin ......................................................... 27
- Seahorse & Coral .......................................................... 28
- Lighthouse & Anchor ...................................................... 29
- Diver & Dolphin ........................................................... 30
- Diver & Coral ............................................................... 30
- Diver & Sailboat ............................................................ 30
- Coral & Sailboat ............................................................ 31
- Lighthouse & Sailboat .................................................... 31
- Dolphin & Coral ............................................................ 31
- Sailboat & Pelican .......................................................... 31
- Coral & Pelican ............................................................ 32
- Angel Fish & Seahorse .................................................... 32
- Coral & Angel Fish ........................................................ 32
- Coral & Neptune ........................................................... 32
- Mermaid & Seahorse ....................................................... 33
- Mermaid & Ballerina on Swan ......................................... 33
- Mermaid & Angel Fish .................................................... 33
- Mermaid & Coral ........................................................... 33

This One
Christian
Jesus & Cross ................. 34
Cross & Jesus ............... 35
Jesus & Nativity ............ 36
Angel & Butterfly .......... 37
Jesus in Tree & Wiseman ... 38
Girl & Boy Praying ......... 38
Head of Christ & Pastor ... 38
Jesus & Cup of Life ....... 38
Angel & Butterfly .......... 39
Angel & Boy with Candle ... 39

Music
Music Notes & Piano ..... 40
Sax & Clef .................. 41
Clef & Ballerina on Swan .. 42
Tuba & Cello ............... 43
Tuba & Clef ............... 43
Clef & Hand Bell .......... 43
Clef & Bell .................. 43
Victrola™ & Clef ......... 44
Clef & Ballerina on Swan .. 44

People
Ballerina & Swan .......... 45
Griffin & Knight .......... 46
Knight & Dragon .......... 47
Cowboy & Indian Brave ... 48
Boone & Indian Chief .... 48
Boone & Indian Brave ..... 48
Buffalo & Indian Chief ... 48
Gymnast & Ballerina ...... 49
Ballerina & Swan .......... 49
Ballerina & Cello .......... 49
Mermaid & Ballerina ...... 49
Knight & Griffin .......... 50
Knight & Dragon .......... 50
Gladiators ................ 50
Hydrant & Fireman ........ 50
Japanese Lady & Dragon ... 51
China Man & Dragon ....... 51
China Lady & Dragon ..... 51
Dutch Girl & Tulip ....... 51
Man & Burro .............. 52
Man on Rock & Man on Burro 52
Mexican Dancers .......... 52
Lady & Gent .............. 52
Lion Trainer & Lion ...... 53
Ballerina & Clown ......... 53
Horn Player & Saxophone .
Player ..................... 53
Chapman & Keystone Cop ....... 53
Grizzly Bear & Boone ...... 54
Park Ranger & Bear with Tree .. 54
Lady Justice & Owl (Wisdom) .. 54
Uncle Sam & American Eagle ... 54
Bull Rider & Rodeo Clown ... 55
Custer & Sitting Bull ..... 55
Perched Eagle & Indian Chief ... 55
Bronc Rider & Cowboy ... 55
Man & Tree ............... 56
Saw & Hammer .............. 56
Man & Hammer ............. 56
Compound scroll saw is a unique cutting technique that allows scrollers to go a step beyond conventional three-dimensional designs. Instead of cutting just one design in the round, you are actually cutting two separate designs for each compound piece. For example, as you'll see in the following sample, one side of the piece is a cactus while the other side is a howling coyote. Many more compound scroll saw designs, each a combination of two objects, follow these brief cutting instructions.

You will need the following tools and supplies to cut the compound figures in this book:

- Copies of the patterns
- Wood blocks approximately 1 3/4 in. by 1 3/4 in. by 4 1/4 in. long
- Hand or belt sander
- Adjustable square or 6-inch ruler
- Pencil
- Glue stick
- Transparent tape
- Hand drill or drill press (for inside cuts)
- 1/8 in. drill bit (for inside cuts)
- Scroll saw
- Selection of scroll saw blades (#5, #7 and #9)
- Emery boards, small file or fine-grit sandpaper
- Scissors

You are now ready to start.

**Step 1: Block Preparation**

Any type of wood may be used for cutting the compound figures, from softwoods, such as pine, to hardwoods, such as oak. Blocks should be cut to size. This can be done several ways. You can purchase 2-inch-thick wood and cut 1 3/4-inch-wide strips or purchase 2-inch lathe-turning squares. When you have your strips, cut them to length, approximately 4 1/4 inches long.

**Step 2: Sand Surfaces and Round Edges**

Lightly sand all four sides of the block and bevel or round the bottom edges. (See the illustration below.) This makes the piece more appealing to the eye. The beveled or rounded end will now become the base for the figure.

**Step 3: Measure**

Using the adjustable square or 6-inch ruler, measure up one quarter inch from the base of the block and draw a pencil line. (See the illustration below.) Repeat this procedure on all four sides. This line is used to line up the bottom edge of the pattern designs.
Step 4: Prepare Patterns
Photocopy or scan the patterns from the book. Using scissors, cut the patterns out to 1 3/4 in. wide, the approximate width of the wood blocks.

Step 5: Apply Patterns
Using the glue stick, apply glue to the back of pattern and place the pattern on the wood block. Line up the bottom of pattern design with the pencil line that you drew on the block in Step 3. Rotate the wood block 90 degrees, or one-quarter turn, and glue the other half of the pattern design to that side of the block. (See the illustration below.)

Step 6: Drill Starter Holes
Some of the pattern designs will require inside cuts. These areas will be marked with an "X" on the patterns. Using a hand drill or a drill press with a 1/8 in. drill bit, drill completely through the block in the areas marked with an "X." (See the illustration below.) These drill holes will enable you to insert the saw blade through the block to begin the inside cuts.

Step 7: Make the Inside Cuts
You are now ready to start cutting. Make all of the inside cuts first. Using the 1/8 in. holes as starters, carefully insert your blade in the starter hole and cut around the inside lines of the pattern.
**Step 8: Make the Outside Cut**
Next, make the outside cut. Start your cut from the bottom of the block line, saw the pattern line, then follow the contour of the pattern to the opposite side. Bring your saw out on block line. (See the illustration at right.)

**Step 9: Secure the Piece**
After sawing out the first side, use two strips of transparent tape to tape completely around the top of the block and the bottom of the block. (See the illustration at right.) The tape will help keep the cut piece from sliding back and forth.

**Step 10: Cut the Second Side**
You can now cut out the other side of the design. Follow the same procedures you used to cut the first side. When you are finished cutting, if the figure doesn't slide out, cut away waste areas from around the pattern lines to free the figure. (See the illustration at right.)

**Finishing**
You are now ready to finish your figure. First, remove the saw fuzz with an emery board, a small file or a strip of fine-grit sandpaper. Use care in this step as some of the figures are very delicate. When you have completed the sanding, remove all dust from the figure by using a container of compressed air or a soft-bristled paint brush. Add a final finish to your piece with tung oil, clear spray or tole paint. You may also decide to leave the figures natural. This is your decision.

You now have a completed compound figure. Use the patterns on the following pages to create more compound figures, or design your own.
Deer Bust & Moonlight Wolf

128 Compound Scroll Saw Patterns
Perched Eagle & Standing Deer
Howling Wolf & Standing Deer
Cougar & Standing Deer
Standing Deer & Mountaintop Ram
Baseball Player

128 Compound Scroll Saw Patterns
Hunter & Standing Deer

128 Compound Scroll Saw Patterns
Anchor & Sailboat

128 Compound Scroll Saw Patterns

Copyrighted material
Dolphin & Seahorse

128 Compound Scroll Saw Patterns
Sailboat & Dolphin

128 Compound Scroll Saw Patterns
Lighthouse & Anchor

128 Compound Scroll Saw Patterns
Cross & Jesus

*Note that the shape of the cross may change depending on how the sleeves are cut on Christ's robe.

128 Compound Scroll Saw Patterns
Angel & Butterfly

128 Compound Scroll Saw Patterns
Music Notes & Piano

128 Compound Scroll Saw Patterns
Clef & Ballerina on Swan

128 Compound Scroll Saw Patterns
Knight & Dragon

128 Compound Scroll Saw Patterns
Sam Keener

Sam Keener started woodworking as a small child in his grandfather's shop. Today he and his wife Mary create and sell woodworking projects—mostly compound figures and Intarsia—through their shop in Ohio.

Sam first spotted large compound carvings on a trip to Mexico. With a little encouragement and more than a little patience, Sam adapted the techniques to cut four- to five-inch-tall compound figures on his scroll saw. This is his first book on the technique.
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Add a new twist to traditional three-dimensional scroll saw work

Take a look at one of Sam Keener's scroll saw pieces and you'll see an angel. Turn it 90 degrees and look again. Now you'll see a butterfly perched on a flower. Pick up another piece: One side is a musical note; the other is a saxophone. A step beyond "three-dimensional" scroll saw projects, these two-in-one figures are made with a unique cutting technique perfected by author and artist Sam Keener.

Inside you'll find:
- Instructions and illustrations explaining "two-in-one"
- Color photographs of select pieces showing all four sides of the figure
- 128 distinct, ready-to-use patterns for nautical themes, wildlife, music, people and more