# Turning Furniture Parts 

# Part 2: For smooth surfaces and intricate elements, a little practice makes perfect 



5 PUT IT ALL TOGETHER


## Evarnica? <br> Cut a row of V-notches

The V-notch is the easiest shape to learn, but the trick is to cut one consistently and confidently in three clean strokes.

Start with a relief cut. Use a chopping motion with the toe of the skew chisel to cut straight into the workpiece (above left). Then cut the side walls. Angle the chisel
and follow its outer bevel down into the notch.

## Learn two ways to cut beads

Beads are a fundamental shape in spindle turning. There are two ways to cut them, and each has its advantages. For both drills, start with one of the notched spindles you just made.

## SKEW CHISEL IS EASIER

Once you have a handle on planing and cutting V-notches with the oval skew chisel, it's relatively simple to learn to cut a bead with it.

Start at the very corner, and work toward the top and bottom of the


## Lead with the

heel. Begin by taking a small cut on the corner of the V-notch, rotating the heel of the chisel to peel a thin shaving all the way down to the bottom. Remove a bit of wood with each pass.

shave away high spots at first. Subsequent passes will even out the surface. The shavings will become more uniform and continuous once the spindle is straight and smooth. To finish a skew cut, rotate or push the edge back up again so that the edge no longer contacts the round. Don't pull the tool away from the blank or lower the cutting edge; that will deepen the cut and could catch the edge.
Now try it in the other direction, this time planing away from your body. First use the rouging gouge to rough up your nice surface, and then switch to the skew for planing. It's a little trickier this way for new turners, who often block the handle as they position themselves. Rotate your body close to the lathe. This will let you angle the edge properly, and give you plenty of room to enter and exit cuts cleanly.

## V-notches open the door to other shapes

For new turners, V-notches are a gateway because they
serve both as decorative elements and as preliminary cuts for other shapes. Also, the V-notch is the easiest shape to learn-it takes just three short cuts with the toe of a skew chisel. To practice that, make a series of notches about 1 in . apart along one of your practice cylinders. Make a notch and move quickly to the next without recutting or cleaning up the last. The goal is to repeat the gestures until you develop a feel for them, moving seamlessly from one side of the V to the other. After a few blanks, you'll be able to do this handily.
After making the relief cut in the center, rotate the chisel slightly to cut each sidewall. The outer bevel is the one that matters. Line it up with the cut you want to make, and then raise the handle of the tool to slice off a nice, clean ring of wood. If the chisel skitters one way or the other, rotate it in the other direction a bit more and try again. Just as with a planing cut, the skew must constantly travel forward to cut a V-notch without catching. You'll need to sidestep a little and get your torso out of the


Vertical limit. With each pass, you'll start closer to the center of the bead, and finish with the tool more and more vertical until it's close to $90^{\circ}$.

SPINDLE GOUGE IS FASTER
You also can cut beads with a spindle gouge, a tool that hogs out material faster than an oval skew chisel but can leave just as smooth a surface.


Righties, start on the left. Start by cutting the left side of each bead (right side of the notch). That motion will be easier for you. Do a whole row.
way before making the cut that is closest to your body.

Skew can cut beads, too
To cut beads, start with your series of V-notches and use the same tool you've been getting comfortable with, the skew chisel. To develop consistency, practice cutting a row of half-beads along a cylinder that has a V-notch about every inch, and then come back and cut the other half-bead.
To enter the cut, lower the skew until the edge is about to contact the workpiece, then roll the heel of the skew toward the V-notch and lift the handle. Stay in contact as you roll around the bead by moving the handle sideways.
Here's a secret seldom told to new turners: The technique is much easier if you hold the tool so it's most comfortable at the end of the cut. In this case, it's important to keep the skew cutting high on the round, which is easier if you start with your hands in a slightly
unnatural position. Hold the chisel with its toe pointing straight up. Then rotate it back to the starting position without changing your grip. Now you'll always be moving toward a more comfortable grip as you rotate the tool, and your motion will be much smoother.
By the way, I leave a nearly imperceptible flat on the center of my beads, so I have a good starting point for both sides of the cut. I finish it off afterward.

Cutting beads with a gouge
When cutting a bead with a spindle gouge, new turners often find the cutting motion tough to master, because it involves rotating the tool while simultaneously lifting the handle and swinging it sideways along the tool rest. Again, if you do the drill, you'll build the skill.
Start by cutting the left side of each bead, working down the entire row. The handle will swing away from you, which is easier. The process is the same


Now the right. To cut a bead with a spindle gouge, enter the cut near the center and simultaneously roll the tool and ride the bevel down the side of the bead.


Tricky motion. To keep the cutting edge engaged, you'll need to roll the tool sideways while both lifting the handle and moving it sideways.


Finish on the side. The gouge will end up tipped all the way onto its side on your final pass.


Unlike beads, you can practice coves on a straight cylinder and it's best to cut them one at a time.


Start with a pencil and a parting
tool. Mark pencil lines every 1 in. and make notches between them to roughly 1 in . dia. To use the parting tool, start by riding the bevel and then raise the handle to lower the tip.

for cutting right-side beads, but it requires you to step a little farther to the left to get your body out of the way as you swing the handle of the tool toward you.
Back to that turner's secret again, where you start off a little awkward and move toward comfortable. For a right-side bead, this means you should grip the gouge so the flute faces all the way to the right before putting it in position to start the cut.

## Cutting coves with a gouge

To cut coves, the concave shapes found in all types of spindles, you'll use the spindle gouge in a maneuver that looks similar to cutting a bead in reverse. As with beads, the choreography is tough to get used to at first. You'll practice cutting two sides from the same position, and the entire spindle will be less likely to vibrate and chatter if it's thinned out in only one place at a time. Lay out the ends of the coves by penciling a line every inch and then get the cove started by using a parting tool to size
the diam-
eter between the marks down to 1 in.

Making a cove cut is like scooping wood out of the spindle, working toward the middle in ever-widening scoops until you reach the pencil line. Finish each cut before you encounter any end grain that's exposed on the other side of the cove, which will cause a catch. Work back and forth, making passes on the right and left until the cove is done before moving on to the next one. As before, it helps to grip the gouge so that your hands are in a comfortable position at the end of the cut. Your body needs to be out of the way, too.

## Bring it all together

After practicing the basic shapes, you're ready for a more complicated shape. I have students bring them together into a series of alternating beads and coves, each shape beginning and ending at a crisp shoulder line. Here, the goal is to create consistent shapes and move fluidly from one to the other without


A few small cuts in the middle. Holding the gouge on its side, take shallow cuts on each side of the parting-tool cut. Enter the cut by rolling the gouge back toward level while pushing it forward in a scooping motion. Keep the bevel of the gouge bearing on the wood as you roll and push.



Work toward the pencil lines. Scoop out the sides of the cove, working from side to side to widen and deepen the shape. Continue feeding the cutter forward to raise it out of the cut.


Use another one of your practice cylinders. The goal is crisp transitions between each element.
cutting into the shoulder. For a workpiece, rough down one of the practice pieces from earlier. I tell students to aim for about a 2-in.-dia. cylinder, but being exact doesn't matter, as long the diameter is consistent and thick enough to leave the bottom cove at least $3 / 4 \mathrm{in}$. thick. Any thinner and the spindle could flex, causing chatter as you cut.

Locate the shoulder lines by making a pencil line every inch, down the entire workpiece. But once again, you will work one section at a time to avoid excessive vibration. That section will consist of a halfbead, then a shoulder cut, a full cove, a shoulder cut, and then a half-bead.

Start each section by cutting a pair of shoulder lines down to $1 \frac{1}{4} \mathrm{in}$. dia. Then remove most of the waste between them with the spindle gouge, stopping just before you reach the depth of the shoulders. The slightly proud surface gives a reference point to begin the cove cuts. Cut the beads last, smoothing them with the skew chisel if needed. If your gouge is sharp, they probably won't need it. And remember, it's just practice.

Peter Galbert is a chairmaker in Sterling, Mass.


Map out the spindle and exca-
vate. Use two parting-tool cuts to define the shoulders, and the spindle gouge to remove most of the waste


Define the center. Use a partingtool cut to define the depth of the cove at roughly $3 / 4 \mathrm{in}$. dia.


Beads first. Stick with the gouge, shooting for a clean, sharp transition to the flat shoulder.


Now the cove. To avoid excessive vibration, hollow out this section last. If the beads are rough, plane them a bit with the skew chisel.


