

Gouges for Bowls and Spindles

IN THE DEMONSTRATION I WILL TURN A SMALL BOWL AND SHOW HOW TO TURN A SMALL "RAFFAN" SCOOP.

TURNING THE BOWL: I WILL USE THE SIDE-GROUND GOUGE, SPINDLE GOUGE, AND SMALL BOWL GOUGE. I WILL SHOW SEVERAL ROUGHING CUTS AND SEVERAL FINISHING CUTS.

TURNING THE SCOOP: I WILL USE THE SPINDLE ROUGHING GOUGE, SPINDLE GOUGE, DETAIL GOUGE AND PARTING TOOL. I WILL SHOW ROUGHING, BEADS, COVES, DRILLING WITH A GOUGE, HOLLOWING, AND BACK HOLLOWING.

OTHER THAN 3 ADVANCED CUTS, THE TECHNIQUES I'LL SHOW ARE BASIC ONES USED FOR TURNING BOWLS AND SPINDLES.

Al Hockenbery

Gouges for Bowls and Spindles

GOUGES

Bowls

- ✓ Side-ground bowl gouge
- ✓ Spindle gouge
- ✓ Small traditional grind
- Steep bevel

Spindles

- ✓ Spindle gouge
- ✓ Bowl gouge
- ✓ Spindle roughing gouge
- Shallow spindle gouge

CUTS

Bowls

- ✓ Roughing cuts - A Frame stance, Pulling, Pushing, Scraping
- ✓ Finish cuts - Push cut, Pull cut, Shear cut, Shear scrape

Spindles

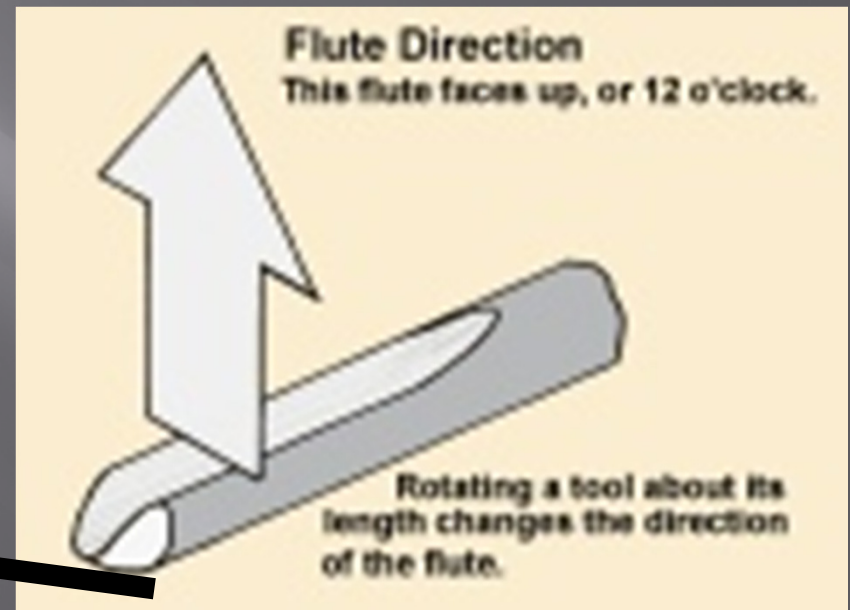
- ✓ Roughing
- ✓ Beads,
- ✓ Coves
- ✓ Boring

How the Gouge Cuts

Gouges cut in a straight line in the direction of the bevel

I set the tool rest so that the gouge is cutting at the center when the handle is parallel to the floor.

Catches occur when the tool is positioned so that the wood can drive onto the tool or when the turner forces the gouge to cut too deeply into the wood.



Direction of cut

Flute Direction

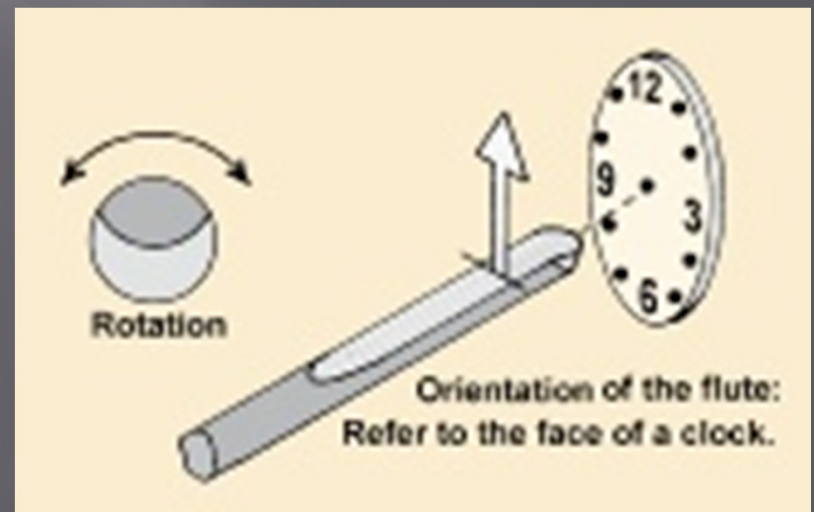
For Bowls:

Entry cuts are made on the outside with the flute at 9
then the flute is rolled up to 10 or 10:30

Entry cuts for hollowing a bowl are made with the flute at 3
then the flute can be rolled up to 2 or 1:30

For Spindles:

Cuts begin with the flute at 12, bevel on the wood with the gouge not cutting. Lifting the handle and rolling the tool engages the cutting edge just off the nose. The cut is controlled by lifting the handle and rolling the tool.



MY MUST HAVE TOOLS-
with these I can turn any
outside shape

· Bowl gouge 5/8" diameter bar



· Spindle gouge 3/8" diameter



· Parting tool



Bowl Gouge Flute Design



Parabolic flute
Ellsworth



V flute

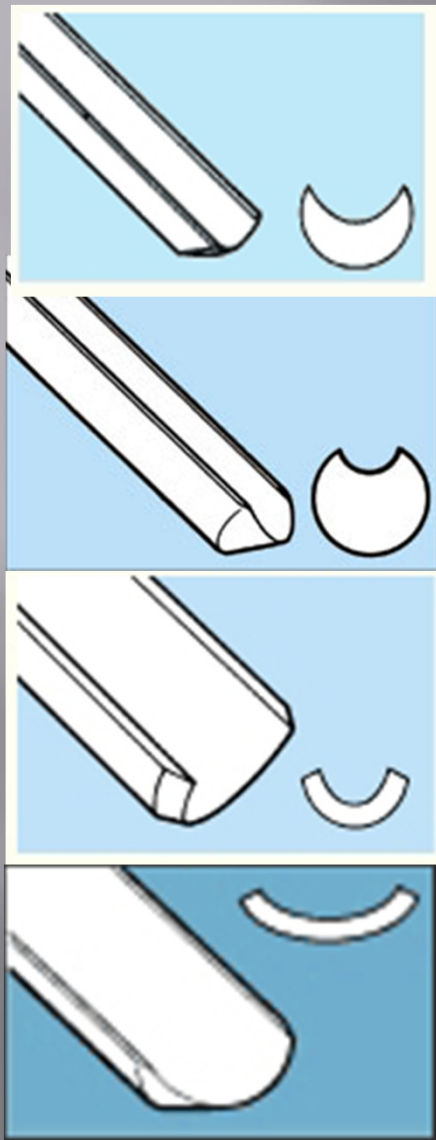


Glaser



U flute

Spindle Tools



- Spindle gouge –flute ground in the bottom half of the bar. Ideal for a 30 degree bevel
- Detail gouge – flute ground in top of bar works well with 60 to 30 degree grind
- Spindle roughing gouge (SRG) – forged from a flat bar. Use only on spindles. Too weak and too aggressive for bowl use
- Shallow Gouge - Advanced turners, takes big shavings and leaves a cleaner surface than SRG

Spindle Roughing Gouge



Most common is U shaped and usually forged from a flat bar

Don't use this tool on bowls!
Tool is too aggressive and
tang is too weak to take the
stress. Dangerous on bowls.
Great on spindles!



Shallow roughing gouge preferred by some professional turners



Bowl Gouge Bevel Angles

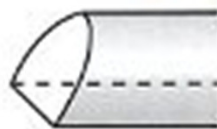
Front Nose Angle



35 Deg



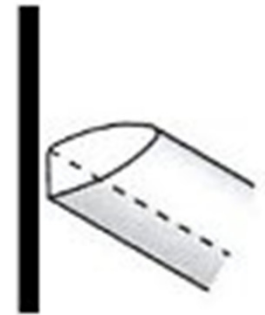
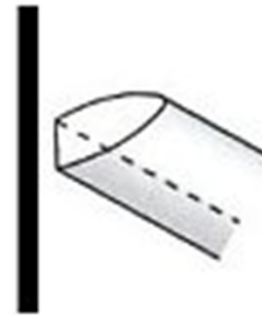
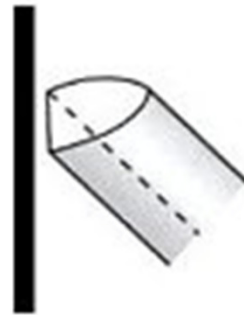
45 Deg



55 Deg



75 Deg



Under cutting rims 30-40 deg.

Open bowls and hollow forms 40-60 deg.

Bowl bottoms 75-80 deg.