DuraGrain Maker Plan Library: 24 Utensil 3D Carving Models

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24 watertight STL solids, inches, built from the same outlines and side profiles as the paper templates. Finish with DuraGrain Pure Walnut Oil + DuraGrain Board Butter.

#	Model	Model size (L x W x T)	Blank	File
1	Classic Cooking Spoon	12.16 x 2.56 x 0.96"	13-3/16 x 3-9/16 x 1"	01-classic-cooking-spoon.stl
2	Tasting Spoon	8.16 x 1.52 x 0.48"	9-3/16 x 2-1/2 x 1/2"	02-tasting-spoon.stl
3	Corner Spoon	12.24 x 2.48 x 0.73"	13-1/4 x 3-1/2 x 3/4"	03-corner-spoon.stl
4	Roux Spoon	12.24 x 2.48 x 0.72"	13-1/4 x 3-1/2 x 3/4"	04-roux-spoon.stl
5	Flat Spatula	12.24 x 2.96 x 0.50"	13-1/4 x 3-15/16 x 1/2"	05-flat-spatula.stl
6	Scraper Spatula	12.16 x 2.48 x 0.75"	13-3/16 x 3-1/2 x 3/4"	06-scraper-spatula.stl
7	Spurtle	12.16 x 1.76 x 0.50"	13-3/16 x 2-3/4 x 1/2"	07-spurtle.stl
8	Slotted Spurtle	12.24 x 2.00 x 0.50"	13-1/4 x 3 x 1/2"	08-slotted-spurtle.stl
9	Pasta Server	12.24 x 2.96 x 0.73"	13-1/4 x 3-15/16 x 3/4"	09-pasta-server.stl
10	Skimmer Spoon	12.16 x 2.72 x 0.72"	13-3/16 x 3-3/4 x 3/4"	10-skimmer-spoon.stl
11	Ladle	13.20 x 3.20 x 1.75"	14-3/16 x 4-3/16 x 1-3/4"	11-ladle.stl
12	Large Serving Spoon	14.16 x 2.96 x 0.97"	15-3/16 x 3-15/16 x 1"	12-large-serving-spoon.stl
13	Spoon Rest	8.72 x 4.00 x 1.25"	9-3/4 x 5 x 1-1/4"	13-spoon-rest.stl
14	Cheese & Charcuterie Spreader Knife	8.72 x 1.52 x 0.50"	9-3/4 x 2-1/2 x 1/2"	14-cheese-charcuterie-spreader-knife.stl
15	Deep-Pan Swoop Spatula	14.24 x 2.72 x 2.50"	15-1/4 x 3-3/4 x 2-1/2"	15-deep-pan-swoop-spatula.stl
16	Salad Spoon	11.20 x 2.80 x 0.73"	12-3/16 x 3-13/16 x 3/4"	16-salad-spoon.stl
17	Salad Fork	11.20 x 2.80 x 0.74"	12-3/16 x 3-13/16 x 3/4"	17-salad-fork.stl
18	Tongs (make 2 arms)	8.96 x 1.36 x 0.25"	9-15/16 x 2-3/8 x 1/4"	18-tongs-make-2-arms.stl
19	Wok Spatula	14.24 x 3.12 x 1.50"	15-1/4 x 4-1/8 x 1-1/2"	19-wok-spatula.stl
20	Coffee Scoop	6.16 x 2.24 x 1.49"	7-3/16 x 3-1/4 x 1-1/2"	20-coffee-scoop.stl
21	Butter Spreader	7.20 x 1.36 x 0.37"	8-3/16 x 2-3/8 x 3/8"	21-butter-spreader.stl
22	Honey Dipper	6.16 x 1.20 x 1.00"	7-3/16 x 2-3/16 x 1"	22-honey-dipper.stl
23	Rice Paddle	8.96 x 3.20 x 0.50"	9-15/16 x 4-3/16 x 1/2"	23-rice-paddle.stl
24	Jar Spoon	11.20 x 1.04 x 0.47"	12-3/16 x 2-1/16 x 1/2"	24-jar-spoon.stl

What the models are

Each STL is the finished utensil as one closed solid, sitting with its bottom at Z = 0 and its handle end at X = 0. It fits within the blank thickness listed (the same as the paper templates); where the model is a little thinner, the top is just skimmed.

Spoon bowls include their carved hollow and a rounded belly. Flat tools keep a flat underside on the blade and a rounded underside on the handle. Holes, slots and tines are open.

The surfaces are on a 0.04" grid, so the outline edge is very slightly stepped. The final 2D profile cut along the template outline (the CUT_OUTER layer in the utensil cnc-laser DXFs) cleans it up.

VCarve workflow (two-sided)

Job: VCarve Pro, double-sided job, inches. Make the material the blank size from the table (the model plus 1/2" all round for hold-downs and tabs) and the blank thickness. Flip direction: left-right is easiest to register.

Import: import the STL as a 3D model/component, in inches, top view up. Position its base at the bottom of the material so the part sits exactly as designed in the blank; in a double-sided job VCarve then shows the underside of the same model on the bottom side. Check this in the 3D preview before toolpathing: if the bottom side comes in empty, import the model there as well, flipped.

Top side: 3D roughing with a 1/4" end mill (leave 0.02"), then 3D finishing with a 1/8" ball nose at about 8-10% stepover. Limit both to the utensil outline plus a little margin.

Registration: before flipping, drill two 1/4" dowel holes through the blank outside the part and into the spoilboard along the flip axis. Flip onto the pins.

Bottom side: the same roughing and finishing, then a 2D profile around the outline, through, with tabs, to free the part.

VCarve Desktop (no double-sided jobs): carve the top side only from these models, then cut the outline and shape the underside by hand using the paper template's side profile.

Watch for

Cut depth: the swoop spatula (2-1/2") and ladle (1-3/4") need long tools; carving from both sides halves the reach needed, but check the ball nose's flute and shank clearance.

Grain: run the grain along the X axis (the length) as in the templates.

Thin areas: tines, pasta-server teeth and spatula edges are thin by design; slow the finishing feed there or leave a little extra and finish by hand.