

The Chart Inches..

Layer Dia	Seg Width						
4	.192	6	.288	8	.384	10	.480
4-1/8	.198	6-1/8	.294	8-1/8	.390	10-1/8	.486
4-1/4	.204	6-1/4	.300	8-1/4	.396	10-1/4	.492
4-3/8	.210	6-3/8	.306	8-3/8	.402	10-3/8	.498
4-1/2	.216	6-1/2	.312	8-1/2	.408	10-1/2	.504
4-5/8	.222	6-5/8	.318	8-5/8	.414	10-5/8	.510
4-3/4	.228	6-3/4	.324	8-3/4	.420	10-3/4	.516
4-7/8	.234	6-7/8	.330	8-7/8	.426	10-7/8	.522
5	.240	7	.336	9	.432	11	.528
5-1/8	.246	7-1/8	.342	9-1/8	.438	11-1/8	.534
5-1/4	.252	7-1/4	.348	9-1/4	.444	11-1/4	.540
5-3/8	.258	7-3/8	.354	9-3/8	.450	11-3/8	.546
5-1/2	.264	7-1/2	.360	9-1/2	.456	11-1/2	.552
5-5/8	.270	7-5/8	.366	9-5/8	.462	11-5/8	.558
5-3/4	.276	7-3/4	.372	9-3/4	.468	11-3/4	.564
5-7/8	.282	7-7/8	.378	9-7/8	.474	11-7/8	.570

The Chart Metric..

Layer Dia	Seg Width						
60mm	2.882	12	.576	18	.865	24	1.153
65	3.122	12.5	.600	18.5	.889	24.5	1.177
70	3.362	13	.624	19	.913	25	1.201
75	3.602	13.5	.648	19.5	.937	25.5	1.225
80	3.843	14	.672	20	.961	26	1.249
85	4.083	14.5	.696	20.5	.985	26.5	1.273
90	4.323	15	.721	21	1.009	27	1.297
95	4.564	15.5	.745	21.5	1.033	27.5	1.321
10 cm	.480cm	16	.769	22	1.057	28	1.345
10.5	.504	16.5	.793	22.5	1.081	28.5	1.369
11	.528	17	.817	23	1.105	29	1.393
11.5	.522	17.5	.841	23.5	1.129	29.5	1.417
						30	1.441

48-2 plate Segment Width = diameter / 20.818



the

SegEasy Plate User Guide 48-2L

A Word...

The Seg-Easy plate is a simple and easy way to make open segmented vessels. The 48-2L plate accepts forty-four segments and has a 2 degree gap. The miter angle is 2.75 degrees. You can also use the 48-2 Wedgie.

There are many ways to use this creative tool. A good reference is "Segmented Turning" by Dennis Keeling, Taunton Press in the U.S. and "Segmented Turning a Practical Guide" by GMC publications in the U.K.

You can see a few of Dennis's projects at www.dkeeling.com and mine at www.jerrybennettart.com.

Jerry Bennett

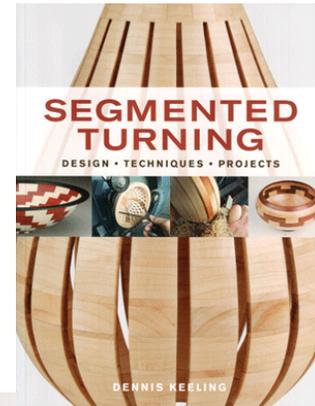


Plate Assembly...

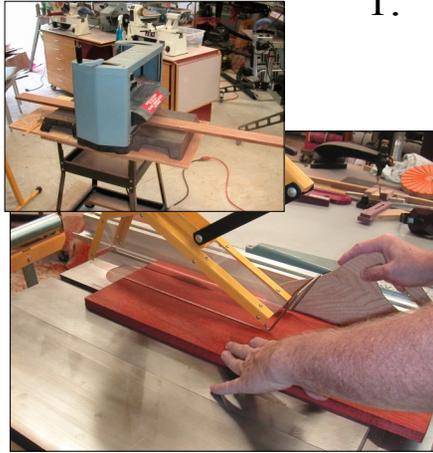


For the required stiffness, attach the SegEasy plate to two stacked and glued 3/4" thick pieces of MDF or plywood cut to the same diameter as the plate. Use #6 x 3/4" flat-head wood screws to attach the plate to the MDF..

Drill a 1/8" center hole through the MDF disk. This hole must be absolutely perpendicular or alignment errors can occur when gluing the segments. Use the drill bit as a pin to align the SegEasy Plate with the MDF. Drill the holes for the #6 x 3/4" flat-head

Safety Caution: *The SegEasy Plate is for assembly only and is not designed for use under power. Improper use could result in injury.*

Step by Step...



1.

Material preparation is one of the most important tasks. Plane material to the desired thickness and rip into the required strip widths. Be sure to add 3 inches or so in length for safe handling while cutting segments. If your planer is snipe-prone like mine, just exclude that part of the board. Mark the layer number on the end of each strip.

The examples show the 24-4 plate. The procedures are the same for all plate configurations.

2.

The segments do not have to be perfect. They just have to fit snugly in the plate. Cut a test segment from a wide board and adjust the angle for a tight fit. Doing it this way, you do not have to worry about the degrees.

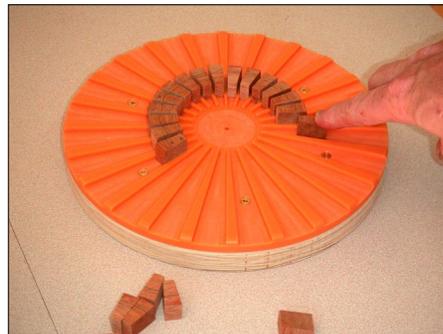


3.

As the segments are cut, put them in numbered bags. Remember to cut a few extra.



4. Put a layer of segments into the plate snugly. They will stay in place with normal handling. With larger and heavier segments, a rubber band may be necessary.



5.

Position plate on tailstock pin and locate segments forward against the previous layer. Mark glue line. This is a good time to make sure each segment is flat. They will be if the thickness is correct. You did cut extras ... Right?



6.

Apply glue up to the glue line with a small brush. I use regular Titebond glue which sets rather quickly. A slower setting glue will slow down the process.



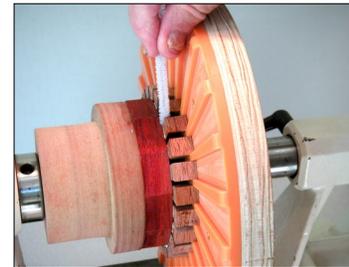
7.

Place plate back on the lathe and tighten just enough to set the glue.



8.

For quick, easy glue cleanup between segments, I use damp pipe cleaners. If they are too wet, the glue will be washed out of the bond area. Some prefer to use a needle file to remove the glue after it dries.



9.

Let the layer dry for 10 to 15 minutes. Then, remove the plate by gently prying it free from the segments with an awl. If a segment comes loose, simply replace it by eye and allow a little more drying time on subsequent layers. The release time is dependent upon the setting time of the glue.

