

# Scroll Saw Blade Selection Chart

**OLSON**<sup>®</sup>  
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**Material**

**Finish**

Hard Wood 1/2" - 3/4"  
Hard Wood to 1 1/2"  
Soft Wood to 1/2" - 3/4"  
Soft Wood to 1/2" - 3/4"  
Veneer/Thin Wood to 1 1/2"  
Plywood  
MDF  
Particle Board  
Corian 1/8" - 1/2"  
Plastic 1/2" - 3/4"  
Non Ferrous Metal  
Aluminum  
Smooth  
Splinter-Free  
Medium

Recommended

Can Use

Not Recommended

Olson UPC No. Univ. No. Width Thickness TPI/ No. Rev. Tooth Style Pilot Hole

Application

Olson UPC No.	Univ. No.	Width	Thickness	TPI/ No. Rev.	Tooth Style	Pilot Hole	Application	Material	Finish
<b>PGT® Precision Ground Tooth (The Best!)</b>									
Skip Tooth PGT									
Double Tooth PGT									
45502	5RG	.045"	.018"	12/9	Skip	1/16"	Ultra smooth finish, straight or close radius cutting, splinter-free, clean edges		
45702	7RG	.047"	.018"	10/7	Skip	1/16"			
45902	9RG	.049"	.018"	8/6	Skip	1/16"			
49502	5RG	.045"	.018"	12/8	Double	1/16"			
49702	7RG	.047"	.018"	10.5/8	Double	1/16"			
49902	9RG	.049"	.018"	9/6	Double	1/16"			
<b>Crown Tooth™</b>									
62000	2/0	.024"	.011"	20	Crown	1/32"	Veining, line art, extreme radius cutting		
62200	2	.026"	.013"	20	Crown	3/64"	Extreme radius, delicate fretwork		
62300	3	.032"	.014"	16	Crown	3/64"	Tight radius fretwork		
62500	5	.038"	.016"	16	Crown	1/16"	Close radius fretwork, general purpose		
62700	7	.045"	.017"	11	Crown	1/16"	Close radius, general purpose		
62900	9	.053"	.018"	6	Crown	1/16"	General purpose, multi-layers		
63200	12	.065"	.024"	6	Crown	5/64"	Heavy duty for faster cuts		
<b>Reverse Tooth</b>									
44002	2/0	.022"	.010"	28/21	Skip	1/32"	Veining, line art, extreme radius cutting		
44302	2R	.029"	.012"	20/14	Skip	3/64"	Extreme radius, delicate fretwork		
44602	5R	.038"	.016"	12.5/9	Skip	3/64"	Close radius fretwork, general purpose		
44802	7R	.047"	.017"	11.5/8	Skip	1/16"	Close radius, general purpose		
45002	9R	.054"	.019"	11.5/8	Skip	1/16"	General purpose, multi-layers		
45302	12R	.062"	.024"	9.5/6	Skip	5/64"	Heavy duty for faster cuts		
42002	-	.100"	.022"	9/5	Skip	1/8"	For cutting thick wood and multi-layers		
<b>Flat End Spiral</b>									
46800	2	-	.035"	41	-	5/64"	Medium speed and medium finish of hard and soft wood, plaster, and wallboard		
46900	4	-	.041"	36	-	7/64"			
<b>Spiral</b>									
46100	0	-	.032"	46	-	3/64"	Bevel cut letters, etc., medium finish fretwork and workpieces too large to turn		
46300	2	-	.035"	41	-	5/64"			
46500	4	-	.041"	36	-	7/64"			
<b>NEW! Mach Speed™</b>									
64302	3R	.032"	.014"	13/7	Skip	3/64"	Accurate tight radius cuts		
64502	5R	.038"	.016"	13/7	Skip	5/64"	Steady close radius cuts		
64702	7R	.046"	.017"	8/6	Skip	7/64"	Fast close radius cuts		
64902	9R	.055"	.018"	8/6	Skip	3/64"	Fast close radius cuts in thicker wood		

PGT® blades have razor sharp reverse teeth with widely spaced gullets for cutting straighter, faster, smoother, more accurately. PGT's minimize burning & provide the ultimate sand-free, splinterless finish with a clean edge. Double tooth style is especially good for cutting hard woods.

**Hint!** Reverse Tooth blades work best with 1-2 reverse teeth showing above the table on the upstroke! Adjust blade in holder or trim when necessary.

Unique **Crown Tooth** blades cut on both up and down strokes. Two way cutting action provides a smooth, splinterless finish, and clean edges. When worn, the blade can be turned over for cutting with a fresh set of teeth!

**Hint!** Tension blade properly! With reasonable force the center of the blade should not move more than 1/8" front to back. Too little tension weakens performance.

**Reverse Tooth** blades have skip style teeth and reverse teeth that eliminate underside tear-out and provide a smooth, splinter-free finish.

**Hint!** More teeth per inch provide a finer cut (good for soft wood). Less TPI provide a coarser cut (good for hard wood). Use the highest number blade for your application (larger blades are more durable).

**Flat End Spiral** blades are the same as regular spiral blades, but with flat ends for easier blade installation and retention. Offered in the two most popular sizes.

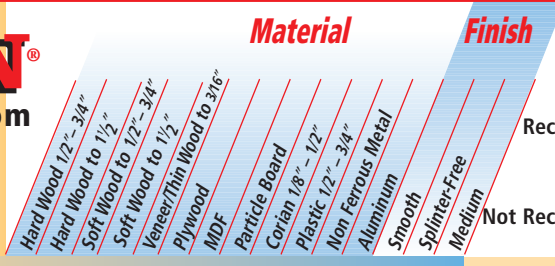
**Spiral** blades saw in all directions with 360° cutting capability. Excellent for 0° radius scroll/fret work - no need to turn the workpiece. Bevel cut letters and numbers.

**The Olson Saw Co.**  
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Form-OL-1052

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Recommended

Can Use

Not Recommended

Olson UPC No.	Univ. No.	Width	Thickness	TPI/No. Rev.	Tooth Style	Pilot Hole	Application	Material	Finish
<b>Thick Wood</b>									
40800	-	.080"	.018"	7	Hook	3/32"	Thick wood – up to 2" without burning!	Hard Wood 1/2" - 3/4"	Medium
<b>Skip Tooth</b>									
40000	3/0	.022"	.008"	33	Skip	1/32"	Ultra intricate sawing, veining, line art, close knit jig saw puzzles	Hard Wood 1/2" - 3/4"	Smooth
44000	2/0	.022"	.010"	28	Skip	1/32"	Extremely intricate sawing, veining, line art	Hard Wood 1/2" - 3/4"	Medium
44300	2	.029"	.012"	20	Skip	3/64"	Tight radius work, fretwork	Hard Wood 1/2" - 3/4"	Medium
44500	4	.035"	.015"	15	Skip	1/16"	Tight radius work, fretwork	Hard Wood 1/2" - 3/4"	Medium
44600	5	.038"	.016"	12.5	Skip	1/16"	Close radius cutting	Hard Wood 1/2" - 3/4"	Medium
44800	7	.045"	.017"	11.5	Skip	1/16"	General Purpose	Hard Wood 1/2" - 3/4"	Medium
45000	9	.053"	.018"	11.5	Skip	1/16"	General Purpose	Hard Wood 1/2" - 3/4"	Medium
45300	12	.062"	.024"	9.5	Skip	5/64"	Heavy duty for fast cuts	Hard Wood 1/2" - 3/4"	Medium
<b>Pin End</b>									
42401	-	.070"	.010"	18.5	Skip	3/16"	Skip style teeth/ Very thin cuts	Hard Wood 1/2" - 3/4"	Medium
40501	-	.100"	.018"	20	Reg.	3/16"	Regular style teeth/ thin cuts	Hard Wood 1/2" - 3/4"	Medium
41001	-	.100"	.018"	7	Hook	3/16"	Thick wood, up to 2" without burning!	Hard Wood 1/2" - 3/4"	Medium
41101	-	.100"	.018"	15	Reg.	3/16"	General purpose, regular style teeth	Hard Wood 1/2" - 3/4"	Medium
41201	-	.100"	.018"	10	Reg.	3/16"	Regular style teeth, fast cutting	Hard Wood 1/2" - 3/4"	Medium
42003	-	.100"	.018"	9/5	Skip	3/16"	Heavy duty widely-spaced set teeth for fast cutting	Hard Wood 1/2" - 3/4"	Medium
42701	-	.070"	.010"	25	Reg.	3/16"	Regular style teeth/ fine cuts	Hard Wood 1/2" - 3/4"	Medium
<b>Double Tooth</b>									
43200	3/0	.023"	.008"	33	Double	1/32"	Ultra intricate sawing, veining, line art, close knit jig saw puzzles	Hard Wood 1/2" - 3/4"	Smooth
43300	2/0	.023"	.011"	37	Double	1/32"	Veining, line art & marquetry	Hard Wood 1/2" - 3/4"	Medium
43400	1	.026"	.013"	30	Double	3/64"	Delicate fretwork	Hard Wood 1/2" - 3/4"	Medium
43500	3	.032"	.014"	23	Double	3/64"	Extremely intricate sawing	Hard Wood 1/2" - 3/4"	Medium
43600	5	.038"	.016"	16	Double	1/16"	Tight radius work	Hard Wood 1/2" - 3/4"	Medium
43700	7	.044"	.018"	13	Double	1/16"	Close radius cutting	Hard Wood 1/2" - 3/4"	Medium
43800	9	.053"	.018"	11	Double	1/16"	General purpose	Hard Wood 1/2" - 3/4"	Medium
43900	12	.061"	.022"	10	Double	5/64"	Heavy duty, fast cuts	Hard Wood 1/2" - 3/4"	Medium
<b>NEW! Scroll Saw Files</b>									
42101	-	.156"	.056"	(Pin End)		3/16"	For wood, plaster, greenware, soapstone and non-ferrous metals. Turns your scroll saw into a power sander!	Aluminum	Medium
42100	-	.156"	.056"	(Plain End)		3/16"		Aluminum	Medium

**Hint!** (All Blades) For best performance, use lower numbers for thinner stock and higher numbers for thicker stock.

**Skip tooth** blades are excellent for fast cuts that provide smooth finishes and good chip clearance. Univ No. 3/0 – 5 blade sizes can be used to cut cold rolled steel, copper, brass, aluminum sheet and bronze. Soft metal up to 1/8" thick can be cut easily, whether single sheets or several thin sheets in a stack cut.

**Pin End** scroll saw blades are for machines that require 5" pin end blades. They are perfect for Sears Craftsman, Penn State, Delta, Ryobi and all 15" and 16" imported scroll saws that require pin end blades.

**Hint!** Slow feed rate down! Relax! Let the blade do the cutting to minimize burning. Also, use a lube stick on the blade or clear shipping tape on the workpiece to inhibit scorching.

**Double tooth** blades have two teeth together followed by a flat space for efficient chip removal. They cut fast, leaving clean edges in wood and plastic.

**Hint!** (All Blades) For best performance, use lower numbers for tighter radii and higher numbers for more general purpose cuts.