

OLSON®

Scroll Saw Blade Selection Chart

Olson Part No.	Univ. No.	Wide	Thick	TPI No./Rev.	Tooth Style	Pilot Hole	Application	Hard Wood 1/2" to 3/4"	Hard Wood to 1-1/2"	Soft Wood to 1/2" - 3/4"	Soft Wood to 1-1/2" - 3/4"	Veneer/Thin Wood to 3/16"	Plywood	MDF	Particle Board	Corian 1/8" - 1/2"	Plastic 1/2" - 3/4"	Non Ferrous Metal	Aluminum	Smooth	Splinter-Free	Medium	
								Material															
								Finish															
PGT®																							
Precision Ground Tooth (The Best!)																							
PG45502	5RG	.044"	.018"	12/9	Skip	1/16"	PGTs minimize burning and provide the ultimate smooth, sand-free, splinterless finish with a clean edge. For straight or close radius cutting.										1/8"	1/8"					
PG45702	7RG	.046"	.018"	10/7	Skip	1/16"											3/8"	3/8"					
PG45902	9RG	.048"	.018"	8/6	Skip	1/16"											1/2"	3/4"					
PG49502	5RG	.045"	.018"	12/8	Double	1/16"	Double tooth style is especially good for cutting hard woods.										1/8"	1/8"					
PG49702	7RG	.047"	.018"	105/8	Double	1/16"											3/8"	3/8"					
PG49902	9RG	.049"	.018"	9/6	Double	1/16"											1/2"	3/4"					
Crown Tooth™																							
CT62000	2/0	.024"	.011"	20	Crown	1/32"	Veining, line art, extreme radius cutting										1/8"	1/8"					
CT62200	2	.026"	.013"	20	Crown	3/64"	Extreme radius, delicate fretwork										1/8"	1/8"					
CT62300	3	.032"	.014"	16	Crown	3/64"	Tight radius fretwork										1/8"	3/16"					
CT62500	5	.038"	.016"	16	Crown	1/16"	Close radius fretwork, general purpose										1/8"	1/4"					
CT62700	7	.045"	.017"	11	Crown	1/16"	Close radius, general purpose										1/8"	3/4"					
CT62900	9	.053"	.018"	6	Crown	1/16"	General purpose, multi-layers										1/8"	3/4"					
CT63200	12	.065"	.024"	6	Crown	5/64"	Heavy duty for faster cuts										1/2"	3/4"					
Reverse Tooth																							
FR44002	2/0	.022"	.010"	28/21	Skip	1/32"	Veining, line art, extreme radius cutting																
FR44302	2R	.029"	.012"	20/14	Skip	3/64"	Extreme radius, delicate fretwork																
FR44602	5R	.038"	.016"	12.5/9	Skip	3/64"	Close radius fretwork, general purpose																
FR44802	7R	.047"	.017"	11.5/8	Skip	1/16"	Close radius, general purpose																
FR45002	9R	.054"	.019"	11.5/8	Skip	1/16"	General purpose, multi-layers																
FR45302	12R	.062"	.024"	9.5/6	Skip	5/64"	Heavy duty for faster cuts																
FR42002	-	.100"	.022"	9/5	Skip	1/8"	For cutting thick wood and multi-layers																
Flat End Spiral																							
SP46800	2	-	.035"	41	Spiral	5/64"	Medium speed and medium finish of hard and soft wood, plaster, and wallboard																
SP46900	4	-	.041"	36	Spiral	7/64"																	
Spiral																							
SP46100	0	-	.032"	46	Spiral	3/64"	Saw in all directions, 360° cuts, or bevel cut letters, etc.																
SP46300	2	-	.035"	41	Spiral	5/64"	Medium finish fretwork and workpieces too large to turn.																
SP46500	4	-	.041"	36	Spiral	7/64"																	
Mach Speed™																							
FR64302	3R	.032"	.014"	13/7	Skip	3/64"	Accurate tight radius cuts										1/8"	1/8"					
FR64502	5R	.038"	.016"	13/7	Skip	5/64"	Steady close radius cuts										1/8"	1/8"					
FR64702	7R	.046"	.017"	8/6	Skip	7/64"	Fast close radius cuts										3/8"	3/8"					
FR64902	9R	.055"	.018"	8/6	Skip	3/64"	Fast close radius cuts in thicker wood										1/2"	3/4"					

Recommended

Can Use

Not Recommended

PGT blades have razor sharp reverse teeth with wide-spaced gullets for straighter, faster, smoother, and more accurate cuts.

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

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 finer cuts (good for soft wood). Fewer TPI provide a coarser cut (better for hard wood). Use the highest number blade for your application (larger blades are more durable).

Flat End Spiral blades have all the spiral blade features, plus flat ends to make installing and holding the blades easier. 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.

Mach blades are precision milled with widely spaced gullets that minimize burning and provide rapid chip removal. Reverse teeth cut on the upstroke and eliminate underside tear-out.

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Olson Part No.	Univ. No.	Wide	Thick	TPI No./ Rev.	Tooth Style	Pilot Hole	Application	Material	Finish
Thick Wood									
FR40800	-	.080"	.018"	7	Hook	3/32"	Thick wood – up to 2" without burning!		
Skip Tooth									
FR40000	3/0	.022"	.008"	33	Skip	1/32"	Ultra intricate sawing, veining, lines, close knit jig saw puzzles		
FR44000	2/0	.022"	.010"	28	Skip	1/32"	Extremely intricate sawing, veining, line art		
FR44300	2	.029"	.012"	20	Skip	3/64"	Tight radius work, fretwork		
FR44500	4	.035"	.015"	15	Skip	1/16"	Tight radius work, fretwork		
FR44600	5	.038"	.016"	12.5	Skip	1/16"	Close radius cutting		
FR44800	7	.045"	.017"	11.5	Skip	1/16"	General Purpose		
FR45000	9	.053"	.018"	11.5	Skip	1/16"	General Purpose		
FR45300	12	.062"	.024"	9.5	Skip	5/64"	Heavy duty for fast cuts		
Pin End									
FR42401	-	.070"	.010"	18.5	Skip	3/16"	Skip teeth / very thin cuts		
SC40501	-	.100"	.018"	20	Reg.	3/16"	Regular teeth / thin cuts		
FR41001	-	.100"	.018"	7	Hook	3/16"	Thick wood, up to 2" without burning!		
SC41101	-	.100"	.018"	15	Reg.	3/16"	General purpose, regular teeth		
SC41201	-	.100"	.018"	10	Reg.	3/16"	Regular teeth, fast cutting		
FR42003	-	.100"	.018"	9/5	Skip	3/16"	Heavy duty widely-spaced set teeth for fast cutting		
FR42701	-	.070"	.010"	25	Reg.	3/16"	Regular teeth / fine cuts		
Double Tooth									
DT43200	3/0	.023"	.008"	33	Double	1/32"	Ultra intricate sawing, veining, line art, close knit jig saw puzzles		
DT43300	2/0	.023"	.011"	37	Double	1/32"	Veining, line art & marquetry		
DT43400	1	.026"	.013"	30	Double	3/64"	Delicate fretwork		
DT43500	3	.032"	.014"	23	Double	3/64"	Extremely intricate sawing		
DT43600	5	.038"	.016"	16	Double	1/16"	Tight radius work		
DT43700	7	.044"	.018"	13	Double	1/16"	Close radius cutting		
DT43800	9	.053"	.018"	11	Double	1/16"	General purpose		
DT43900	12	.061"	.022"	10	Double	5/64"	Heavy duty, fast cuts		
Regular Tooth									
SC402DZ	-	.049	.022	25	Regular	1/16"	Tight radius cuts in wood		
SC403DZ	-	.070	.023	20	Regular	3/16"	Wood from 3/32" – 1/4" thick		
SC405DZ	-	.100	.022	20	Regular	3/16"	Hard and soft wood		
SC406DZ	-	.250	.025	20	Regular	1/4"	Mica & non-ferrous metal		
SC411DZ	-	.100	.022	15	Regular	3/16"	Wallboard, felt, paper, bone, lead		
SC412DZ	-	.100	.022	10	Regular	3/16"	Medium smooth finish		
SC413DZ	-	.187	.025	10	Regular	3/16"	Wood from 1/4" – 3/4" thick		
SC414DZ	-	.250	.025	7	Regular	1/4"	Wood & plastic 1/4" – 3/4" thick		
ScrollSanders									
SC91262BL -1/4" wide	SC91564BL -1/2" wide (Pin End)					see widths	Choice of 80, 120, 180 & 220 grit packs or assortment packs listed at left. ScrollSanders mount like blades on scroll saws to smooth out rough lines.		
SC92262BL -1/4" wide	SC92564BL -1/2" wide (Plain End)					see widths			

Recommended
 Can Use
 Not Recommended

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.

ScrollSanders can be used on most 5" scroll saws. Modifications may be needed. Check Olson's recommendations for various models and complete listings.

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