

# OLSON®

## Scroll Saw Blade Selection Chart

| Olson Part No.                                    | Univ. No. | Wide  | Thick | TPI No./ Rev. | Tooth Style | Pilot Hole | Application  | Material     |        | Finish      |        |       |        |  |  |  |
|---|-----------|-------|-------|---------------|-------------|------------|--|--------------|--------|-------------|--------|-------|--------|--|--|--|
|   |           |       |       |               |             |            |  | 1/2" to 3/4" | 1-1/2" | 1/2" - 3/4" | 1-1/2" | 3/16" | Medium |  |  |  |
| <b>PGT®</b><br>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"      | Double tooth style is especially good for cutting hard woods.  |              |        | 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"   |       |        |  |  |  |
| <b>Crown Tooth™</b>                               |           |       |       |               |             |            |  |              |        |             |        |       |        |  |  |  |
| 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"   |       |        |  |  |  |
| <b>Reverse Tooth</b>                              |           |       |       |               |             |            |  |              |        |             |        |       |        |  |  |  |
| 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  |              |        |             |        |       |        |  |  |  |
| <b>Flat End Spiral</b>                            |           |       |       |               |             |            |  |              |        |             |        |       |        |  |  |  |
| 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"      |  |              |        |             |        |       |        |  |  |  |
| <b>Spiral</b>                                     |           |       |       |               |             |            |  |              |        |             |        |       |        |  |  |  |
| 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"      |  |              |        |             |        |       |        |  |  |  |
| <b>Mach Speed™</b>                                |           |       |       |               |             |            |  |              |        |             |        |       |        |  |  |  |
| 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 |
|----------------------|----------------------------------|-------|-------|---------------|-------------|------------|---|----------|--------|
| <b>Thick Wood</b>    |                                  |       |       |               |             |            |   |          |        |
| FR40800              | -                                | .080" | .018" | 7             | Hook        | 3/32"      | Thick wood – up to 2" without burning!  |          |        |
| <b>Skip Tooth</b>    |                                  |       |       |               |             |            |   |          |        |
| 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  |          |        |
| <b>Pin End</b>       |                                  |       |       |               |             |            |   |          |        |
| 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   |          |        |
| <b>Double Tooth</b>  |                                  |       |       |               |             |            |   |          |        |
| 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   |          |        |
| <b>Regular Tooth</b> |                                  |       |       |               |             |            |   |          |        |
| 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  |          |        |
| <b>ScrollSanders</b> |                                  |       |       |               |             |            |   |          |        |
| 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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