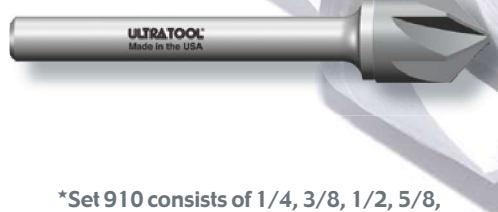


ULTRATOOL Carbide Countersinks

ULTRA-Grain

Series 910
Carbide **Six Flute** Countersinks
For use in hardened materials

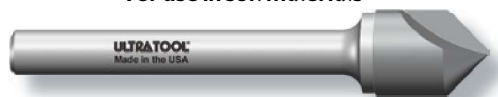


*Set 910 consists of 1/4, 3/8, 1/2, 5/8, and 3/4" sizes in a custom-made, reusable steel index.

| Diam | Shank | OAL | 60°EDP# | 82°EDP# | 90°EDP# | 100°EDP# | UnCoated | Coated |
|-------|---------|-------|---------|---------|---------|----------|----------|----------|
| 1/8 | 1/8 | 1-1/2 | 91008 | 91708 | 91808 | 91864 | \$8.50 | \$10.10 |
| 3/16 | 3/16 | 2" | 91012 | 91712 | 91812 | 91860 | \$9.00 | \$11.00 |
| 1/4 | 1/4 | 2" | 91016 | 91716 | 91816 | 91865 | \$12.40 | \$15.50 |
| 5/16 | 1/4 | 2-5/8 | 91020 | 91720 | 91820 | 91819 | \$17.40 | \$23.00 |
| 3/8 | 1/4 | 2-5/8 | 91024 | 91724 | 91824 | 91863 | \$20.10 | \$25.20 |
| 1/2 | 1/4 | 2-5/8 | 91032 | 91732 | 91832 | 91866 | \$28.60 | \$35.00 |
| 5/8 | 3/8 | 2-3/4 | 91036 | 91736 | 91836 | 91867 | \$42.40 | \$50.90 |
| 3/4 | 3/8 | 2-3/4 | 91040 | 91740 | 91840 | 91868 | \$56.70 | \$66.80 |
| 1" | 1/2 | 3" | 91048 | 91748 | 91848 | 91855 | \$90.60 | \$102.80 |
| 1-1/4 | 3/4 | 3-1/4 | 91050 | 91750 | 91850 | 91856 | \$180.80 | \$204.70 |
| 1-1/2 | 3/4 | 3-1/4 | 91054 | 91754 | 91854 | 91857 | \$249.10 | \$282.10 |
| Set* | 5-piece | | 80360 | 80382 | 80390 | 80392 | \$167.00 | \$197.50 |

Series 911

Carbide **Single Flute** Countersinks
For use in soft materials

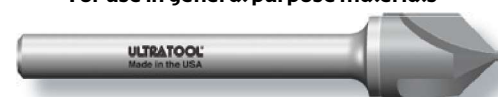


*Set 911 consists of 1/4, 3/8, 1/2, 5/8, and 3/4" sizes in a custom-made, reusable steel index.

| Diam | Shank | OAL | 60°EDP# | 82°EDP# | 90°EDP# | 100°EDP# | UnCoated | Coated |
|-------|---------|-------|---------|---------|---------|----------|----------|----------|
| 1/8 | 1/8 | 1-1/2 | 91108 | 91508 | 91608 | 91869 | \$8.50 | \$10.10 |
| 3/16 | 3/16 | 2" | 91112 | 91512 | 91612 | 91870 | \$9.00 | \$11.00 |
| 1/4 | 1/4 | 2" | 91116 | 91516 | 91616 | 91871 | \$12.40 | \$15.50 |
| 5/16 | 1/4 | 2-5/8 | 91120 | 91520 | 91620 | 91818 | \$17.40 | \$23.00 |
| 3/8 | 1/4 | 2-5/8 | 91124 | 91524 | 91624 | 91872 | \$20.10 | \$25.20 |
| 1/2 | 1/4 | 2-5/8 | 91132 | 91532 | 91632 | 91873 | \$28.60 | \$35.00 |
| 5/8 | 3/8 | 2-3/4 | 91136 | 91536 | 91636 | 91874 | \$42.40 | \$50.90 |
| 3/4 | 3/8 | 2-3/4 | 91140 | 91540 | 91640 | 91875 | \$56.70 | \$66.80 |
| 1" | 1/2 | 3" | 91148 | 91548 | 91648 | 91876 | \$90.60 | \$102.80 |
| 1-1/4 | 3/4 | 3-1/4 | 91150 | 91550 | 91650 | 91877 | \$180.80 | \$204.70 |
| Set* | 5-piece | | 80460 | 80482 | 80490 | 80492 | \$167.00 | \$197.50 |

Series 912

Carbide **Three Flute** Countersinks
For use in general purpose materials



*Set 912 consists of 1/4, 3/8, 1/2, 5/8, and 3/4" sizes in a custom-made, reusable steel index.

| Diam | Shank | OAL | 60°EDP# | 82°EDP# | 90°EDP# | 100°EDP# | UnCoated | Coated |
|-------|---------|-------|---------|---------|---------|----------|----------|----------|
| 1/8 | 1/8 | 1-1/2 | 91208 | 91308 | 91408 | 91878 | \$8.50 | \$10.10 |
| 3/16 | 3/16 | 2" | 91212 | 91312 | 91412 | 91879 | \$9.00 | \$11.00 |
| 1/4 | 1/4 | 2" | 91216 | 91316 | 91416 | 91880 | \$12.40 | \$15.50 |
| 5/16 | 1/4 | 2-5/8 | 91220 | 91320 | 91420 | 91817 | \$17.40 | \$23.00 |
| 3/8 | 1/4 | 2-5/8 | 91224 | 91324 | 91424 | 91881 | \$20.10 | \$25.20 |
| 1/2 | 1/4 | 2-5/8 | 91232 | 91332 | 91432 | 91882 | \$28.60 | \$35.00 |
| 5/8 | 3/8 | 2-3/4 | 91236 | 91336 | 91436 | 91883 | \$42.40 | \$50.90 |
| 3/4 | 3/8 | 2-3/4 | 91240 | 91340 | 91440 | 91884 | \$56.70 | \$66.80 |
| 1" | 1/2 | 3" | 91248 | 91348 | 91448 | 91885 | \$90.60 | \$102.80 |
| 1-1/4 | 3/4 | 3-1/4 | 91250 | 91350 | 91450 | 91886 | \$180.80 | \$204.70 |
| Set* | 5-piece | | 80560 | 80582 | 80590 | 80592 | \$167.00 | \$197.50 |

All countersinks 5/16" and larger are two-piece construction; carbide head induction-brazed to hardened steel shank. Note OAL may vary slightly due to angle differences.

ULTRATOOL Carbide Center Laps

Series 913

Carbide Center Laps w/60° Included Angle
High flute count for fine finishes



| Diam | Shank | OAL | Flutes | EDP# | UnCoated | Coated |
|------|-------|-------|--------|-------|----------|---------|
| 1/4 | 1/4 | 2" | 8 | 90016 | \$14.30 | \$17.40 |
| 5/16 | 1/4 | 2-5/8 | 8 | 90020 | \$19.10 | \$24.00 |
| 3/8 | 1/4 | 2-5/8 | 8 | 90024 | \$22.30 | \$27.40 |
| 1/2 | 1/4 | 2-5/8 | 8 | 90032 | \$31.80 | \$38.20 |
| 5/8 | 3/8 | 2-3/4 | 10 | 90040 | \$48.80 | \$57.30 |
| 3/4 | 3/8 | 2-3/4 | 10 | 90048 | \$66.20 | \$77.20 |

5/16" and larger are two-piece construction; solid carbide head w/ steel shank.



Ultra-Tool® countersink sets consist of 1/4" • 3/8" • 1/2" • 5/8" • 3/4" sizes in a custom-made index.