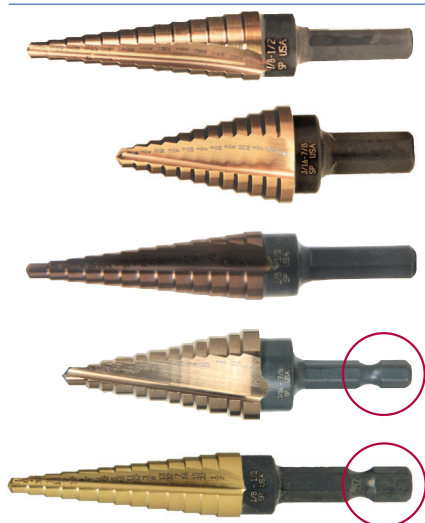


## STEP DRILLS ULTRA BIT™ MULTI-DIAMETER

Made in the U.S.A



### Type B78-AG Gold Oxide, 3-flats on Shank - Blister pak

- Special Axial and Radial flute design increases work piece penetration.
- Dual flute construction drills clean accurate holes in thin materials, quickly and easily.

### Type B78-AGN Titanium Nitride, 3-flats on Shank - Blister pak

- Titanium nitride coated tools last six times longer than uncoated tools.
- Cutting edge stays sharper longer.
- Titanium nitride coating reduces friction.

### Type B78-ACN Titanium Carbon Nitride, 3-flats on Shank - Blister pak

- 2 - 4x the tool life of Titanium Nitride coated tools.
- Improved lubricity for better performance in steel and aluminum.
- Twice as hard as titanium nitride coating.

## Quick Release - Ultra Bit™ Multi-Diameter

### Type 78-QR Gold Oxide

- Use for all thin metals, rigid plastics, wood or composite materials with a thickness equal to or less than the step thickness.
- Split point self centers and easily starts with no pilot hole required.

### Type 78-QRN Titanium Nitride Coated

- Titanium nitride coated tools last six times longer than uncoated tools.
- Cutting edge stays sharper longer.
- Titanium nitride coating reduces friction.

### TYPE B78-AG, B78-AGN, B78-ACN 3-FLATTED SHANK

B78-AG Gold Oxide Part #	B78-AGN Titanium Nitride Part #	B78-ACN Titanium Carbon Nitride Part #	Size	Hole Sizes	No. Range	Shank Size	Step Increments	Step Thickness
45401	45701	65301	1	13	1/8 - 1/2"	1/4"	1/32"	1/8
45441	45751	65311	2	8	1/4 - 1"	3/8"	1/16"	5/32
45431	45731	65321	3	9	1/4 - 3/4"	3/8"	1/16"	5/32
45411	45711	65331	4	6	3/16 - 1/2"	1/4"	1/16"	3/8
45481	45741	65341	7	11	1/4 - 7/8"	3/8"	1/16"	1/16
45421	45721	65351	8	12	3/16 - 7/8"	3/8"	1/16"	1/8
45501	-----	-----	9	3	7/8 - 1-7/32"	3/8"	7/8"	-----
45471	45771	65361	11	2	7/8 - 1-1/8"	3/8"	27/64"	9/64
*45461	45791	65371	12	5	1/4 - 1-3/8"	3/8"	1/8"	*SEE NOTE
45491	45781	65391	1/4 A	16	1/4 - 1-1/8"	3/8"	1/16"	1/16
45451	45761	65381	13/16	10	13/16 - 1-3/8"	1/2"	1/32"	5/32

\*NOTE: Parts # 45461, 45791, 65371 - 7/8", 1 - 1/8", 1 - 7/32", 1 - 1/4", 1 - 3/8" (1/2" and 3/4" conduit)

### HANGING TUBES

Part #	Size	Hole Sizes	No. Range	Shank Size	Step Increments	Step Thickness
00693	10	1	1/2"	1/4"	-----	1/16"
00694	12	1	3/8"	1/4"	-----	-----
00750	13	1	1-1/8"	1/2"	-----	-----

### 3 & 4 PC. SETS

Gold Oxide Part #	Titanium Nitride Part #	Titanium Carbon Nitride Part #	Size	Hole Sizes	No. Range	Shank Size	Step Increments	Step Thickness
01911	01811	65431	1/8 - 1/2"	3/16 - 1/2"	& 1/4 - 3/4"	1/4"	1/32"	(#1, #4, #3)
01921	01821	65411	1/8 - 1/2"	3/16 - 1/2"	& 3/16 - 7/8"	1/4"	1/16"	(#1, #4, #8)
01931	01831	-----	1/8 - 1/2"	3/16 - 7/8"	& 7/8 - 1-1/8"	1/4"	1/16"	(#1, #8, #11)
01941	01841	65421	1/8 - 1/2"	3/16 - 1/2"	& 1/4 - 1"	1/4"	1/16"	(#1, #4, #2)
4pc. 01981	01871	65441	1/8 - 1/2"	1/4 - 3/4"	1/4 - 7/8"	7/8 - 1-1/8"	1/16"	(#1, #3, #7, #11)

### TYPE 78-QR, 78-QRN QUICK RELEASE

78-QR Gold Oxide Part #	78-QRN Titanium Nitride Part #	Size	Hole Sizes	No. Range	Shank Size	Step Increments	Step Thickness
01401	68491	1	13	1/8 - 1/2"	1/4"	1/32"	1/8
01411	68534	2	8	1/4 - 1"	1/4"	1/16"	5/32
01404	68521	3	9	1/4 - 3/4"	1/4"	1/16"	5/32
01402	68501	4	6	3/16 - 1/2"	1/4"	1/16"	3/8
01412	68541	7	11	1/4 - 7/8"	1/4"	1/16"	1/16
01403	68511	8	12	3/16 - 7/8"	1/4"	1/16"	1/8
01409	68531	11	2	7/8 - 1-1/8"	1/4"	27/64"	9/64
*01414	68524	12	5	7/8 - 1-3/8"	1/4"	1/8"	*SEE NOTE
01413	68551	1/4 A	16	1/4 - 1-1/8"	1/4"	1/16"	1/16

\*NOTE: Parts # 01414, 68524 - 7/8", 1 - 1/8", 1 - 7/32", 1 - 1/4", 1 - 3/8" (1/2" and 3/4" conduit)

### 3 PC. SETS

Part #	Size	Hole Sizes	No. Range	Shank Size	Step Increments	Step Thickness
20751	68801	1/8 - 1/2"	3/16 - 1/2"	& 1/4 - 3/4"	1/16"	(#1, #4, #3)
20761	68811	1/8 - 1/2"	3/16 - 1/2"	& 3/16 - 7/8"	1/16"	(#1, #4, #8)
01461	68581	1/8 - 1/2"	3/16 - 7/8"	& 7/8 - 1-1/8"	1/16"	(#1, #8, #11)