

## Cobalt Split Point 1/2" Reduced Shank Silver & Deming Styles 190C, 190C-TN

**Features/Benefits:**

- Larger size general-purpose drills with 1/2" reduced shank.
- Manufactured from cobalt premium high-speed steel for use in highly abrasive applications.
- 118° split point for easier, more precise penetration.
- Standard 6" overall length and 3-1/8" flute length for increased rigidity, less deflection, and better hole accuracy.
- Standardized lengths result in minimal adjustment during tool changes in screw machines and machining centers.
- Ideal for portable drilling due to increased rigidity.
- Straw finish and TiN coating standard from stock.

**Application Information:**

- carbon steel
- alloy steel
- cast iron
- Use wherever maximum chuck capacity is 1/2".

**Surface Treatment Information:**

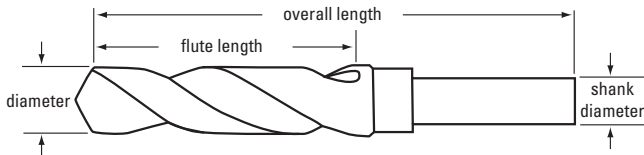
- Straw finish adds lubricity and easily identifies cobalt drills.
- Titanium nitride (TiN) coating adds lubricity and hardness, enhancing chip flow, finish hole quality, and drill life.



Style 190C Straw Finish



Style 190C-TN TiN-coated



**INCH SIZES**

Drill Diameter			Shank Diameter		Overall Length		Flute Length		Style 190C	Style 190C-TN
Fraction	Decimal	mm	Inch	mm	Inch	mm	Inch	mm	Straw	TiN
1/2	.5000	12.70	.5000	12.70	6.0000	152.40	3.1250	79.38	53432	—
33/64	.5156	13.10	.5000	12.70	6.0000	152.40	3.1250	79.38	53433	—
17/32	.5312	13.49	.5000	12.70	6.0000	152.40	3.1250	79.38	53434	53634
35/64	.5469	13.89	.5000	12.70	6.0000	152.40	3.1250	79.38	53435	—
9/16	.5625	14.29	.5000	12.70	6.0000	152.40	3.1250	79.38	53436	53636
37/64	.5781	14.68	.5000	12.70	6.0000	152.40	3.1250	79.38	53437	—
19/32	.5938	15.08	.5000	12.70	6.0000	152.40	3.1250	79.38	53438	53638
39/64	.6094	15.48	.5000	12.70	6.0000	152.40	3.1250	79.38	53439	—
5/8	.6250	15.88	.5000	12.70	6.0000	152.40	3.1250	79.38	53440	53640
41/64	.6406	16.27	.5000	12.70	6.0000	152.40	3.1250	79.38	53441	—
21/32	.6562	16.67	.5000	12.70	6.0000	152.40	3.1250	79.38	53442	53642
43/64	.6719	17.07	.5000	12.70	6.0000	152.40	3.1250	79.38	53443	—
11/16	.6875	17.46	.5000	12.70	6.0000	152.40	3.1250	79.38	53444	53644
45/64	.7031	17.86	.5000	12.70	6.0000	152.40	3.1250	79.38	53445	—
23/32	.7188	18.26	.5000	12.70	6.0000	152.40	3.1250	79.38	53446	53646
47/64	.7344	18.65	.5000	12.70	6.0000	152.40	3.1250	79.38	53447	—
3/4	.7500	19.05	.5000	12.70	6.0000	152.40	3.1250	79.38	53448	53648

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### Cobalt Split Point 1/2" Reduced Shank Silver & Deming (continued) Styles 190C, 190C-TN

**INCH SIZES**

Drill Diameter			Shank Diameter		Overall Length		Flute Length		Style 190C	Style 190C-TN
Fraction	Decimal	mm	Inch	mm	Inch	mm	Inch	mm	Straw	TiN
49/64	.7656	19.45	.5000	12.70	6.0000	152.40	3.1250	79.38	53449	—
25/32	.7812	19.84	.5000	12.70	6.0000	152.40	3.1250	79.38	53450	53650
51/64	.7969	20.24	.5000	12.70	6.0000	152.40	3.1250	79.38	53451	—
13/16	.8125	20.64	.5000	12.70	6.0000	152.40	3.1250	79.38	53452	53652
53/64	.8281	21.03	.5000	12.70	6.0000	152.40	3.1250	79.38	53453	—
27/32	.8438	21.43	.5000	12.70	6.0000	152.40	3.1250	79.38	53454	53654
55/64	.8594	21.83	.5000	12.70	6.0000	152.40	3.1250	79.38	53455	—
7/8	.8750	22.23	.5000	12.70	6.0000	152.40	3.1250	79.38	53456	53656
57/64	.8906	22.62	.5000	12.70	6.0000	152.40	3.1250	79.38	53457	—
29/32	.9062	23.02	.5000	12.70	6.0000	152.40	3.1250	79.38	53458	53658
59/64	.9219	23.42	.5000	12.70	6.0000	152.40	3.1250	79.38	53459	—
15/16	.9375	23.81	.5000	12.70	6.0000	152.40	3.1250	79.38	53460	53660
61/64	.9531	24.21	.5000	12.70	6.0000	152.40	3.1250	79.38	53461	—
31/32	.9688	24.61	.5000	12.70	6.0000	152.40	3.1250	79.38	53462	53662
63/64	.9844	25.00	.5000	12.70	6.0000	152.40	3.1250	79.38	53463	—
1	1.0000	25.40	.5000	12.70	6.0000	152.40	3.1250	79.38	53464	53664
1-1/16	1.0625	26.99	.5000	12.70	6.0000	152.40	3.1250	79.38	53468	—
1-1/8	1.1250	28.58	.5000	12.70	6.0000	152.40	3.1250	79.38	53472	—
1-3/16	1.1875	30.16	.5000	12.70	6.0000	152.40	3.1250	79.38	53475	—
1-1/4	1.2500	31.75	.5000	12.70	6.0000	152.40	3.1250	79.38	53480	—
1-3/8	1.3750	34.93	.5000	12.70	6.0000	152.40	3.1250	79.38	53488	—
1-1/2	1.5000	38.10	.5000	12.70	6.0000	152.40	3.1250	79.38	53496	—

**INCH SETS**

**Sets in Metal Case**

Number of Tools	Size Range	Case Style	Style 190C Straw
8	9/16 - 1 X 1/16	metal	69868



Set 69868