

## 1/2" Reduced Shank Silver & Deming Styles 190, 190F

### Features/Benefits:

- Larger size general-purpose drills with 1/2" reduced shank.
- Manufactured from premium high-speed steel.
- 118° point; style 190F features 118° split point through 1-1/4" size.
- Round shank or shank with three flats for a more positive grip in the drill chuck; flats reduce drill slippage under high load.
- 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.
- Black oxide finish standard from stock.

### Application Information:

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

### Surface Treatment Information:

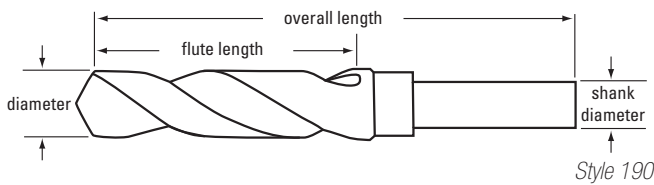
- Black oxide surface finish increases wear resistance and adds lubricity, improving chip flow.



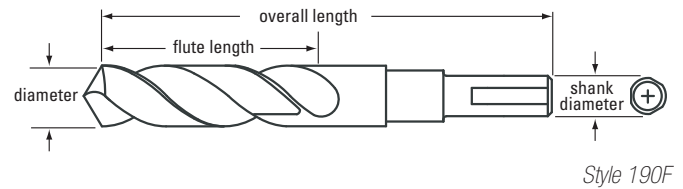
Style 190 Black Oxide with Round Shank



Style 190F Black Oxide with Flatted Shank



Style 190



Style 190F

### INCH SIZES

Drill Diameter	Shank Diameter		Overall Length		Flute Length		Style 190	Style 190F		
	Fraction	Decimal	Inch	mm	Inch	mm	Round	Flatted		
1/2	.5000	12.70	.5000	12.70	6.0000	152.40	3.1250	79.38	55432	52432
33/64	.5156	13.10	.5000	12.70	6.0000	152.40	3.1250	79.38	55433	52433
17/32	.5312	13.49	.5000	12.70	6.0000	152.40	3.1250	79.38	55434	52434
35/64	.5469	13.89	.5000	12.70	6.0000	152.40	3.1250	79.38	55435	52435
9/16	.5625	14.29	.5000	12.70	6.0000	152.40	3.1250	79.38	55436	52436
37/64	.5781	14.68	.5000	12.70	6.0000	152.40	3.1250	79.38	55437	52437
19/32	.5938	15.08	.5000	12.70	6.0000	152.40	3.1250	79.38	55438	52438
39/64	.6094	15.48	.5000	12.70	6.0000	152.40	3.1250	79.38	55439	52439
5/8	.6250	15.88	.5000	12.70	6.0000	152.40	3.1250	79.38	55440	52440
41/64	.6406	16.27	.5000	12.70	6.0000	152.40	3.1250	79.38	55441	52441
21/32	.6562	16.67	.5000	12.70	6.0000	152.40	3.1250	79.38	55442	52442
43/64	.6719	17.07	.5000	12.70	6.0000	152.40	3.1250	79.38	55443	52443
11/16	.6875	17.46	.5000	12.70	6.0000	152.40	3.1250	79.38	55444	52444
45/64	.7031	17.86	.5000	12.70	6.0000	152.40	3.1250	79.38	55445	52445
23/32	.7188	18.26	.5000	12.70	6.0000	152.40	3.1250	79.38	55446	52446
47/64	.7344	18.65	.5000	12.70	6.0000	152.40	3.1250	79.38	55447	52447
3/4	.7500	19.05	.5000	12.70	6.0000	152.40	3.1250	79.38	55448	52448

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## 1/2" Reduced Shank Silver & Deming (continued) Styles 190, 190F

**INCH SIZES**

Drill Diameter	Shank Diameter			Overall Length		Flute Length		Style	Style	
	Fraction	Decimal	mm	Inch	mm	Inch	mm	190	190F	
								Round	Flatted	
49/64	.7656	19.45	.5000	12.70	6.0000	152.40	3.1250	79.38	55449	52449
25/32	.7812	19.84	.5000	12.70	6.0000	152.40	3.1250	79.38	55450	52450
51/64	.7969	20.24	.5000	12.70	6.0000	152.40	3.1250	79.38	55451	52451
13/16	.8125	20.64	.5000	12.70	6.0000	152.40	3.1250	79.38	55452	52452
53/64	.8281	21.03	.5000	12.70	6.0000	152.40	3.1250	79.38	55453	52453
27/32	.8438	21.43	.5000	12.70	6.0000	152.40	3.1250	79.38	55454	52454
55/64	.8594	21.83	.5000	12.70	6.0000	152.40	3.1250	79.38	55455	52455
7/8	.8750	22.23	.5000	12.70	6.0000	152.40	3.1250	79.38	55456	52456
57/64	.8906	22.62	.5000	12.70	6.0000	152.40	3.1250	79.38	55457	52457
29/32	.9062	23.02	.5000	12.70	6.0000	152.40	3.1250	79.38	55458	52458
59/64	.9219	23.42	.5000	12.70	6.0000	152.40	3.1250	79.38	55459	52459
15/16	.9375	23.81	.5000	12.70	6.0000	152.40	3.1250	79.38	55460	52460
61/64	.9531	24.21	.5000	12.70	6.0000	152.40	3.1250	79.38	55461	52461
31/32	.9688	24.61	.5000	12.70	6.0000	152.40	3.1250	79.38	55462	52462
63/64	.9844	25.00	.5000	12.70	6.0000	152.40	3.1250	79.38	55463	52463
1	.0000	25.40	.5000	12.70	6.0000	152.40	3.1250	79.38	55464	52464
1-1/64	.0156	25.80	.5000	12.70	6.0000	152.40	3.1250	79.38	55465	52465
1-1/32	.0312	26.19	.5000	12.70	6.0000	152.40	3.1250	79.38	55466	52466
1-3/64	.0469	26.59	.5000	12.70	6.0000	152.40	3.1250	79.38	55467	52467
1-1/16	.0625	26.99	.5000	12.70	6.0000	152.40	3.1250	79.38	55468	52468
1-5/64	.0781	27.38	.5000	12.70	6.0000	152.40	3.1250	79.38	55469	52469
1-3/32	.0938	27.78	.5000	12.70	6.0000	152.40	3.1250	79.38	55470	52470
1-7/64	.1094	28.18	.5000	12.70	6.0000	152.40	3.1250	79.38	55471	52471
1-1/8	.1250	28.58	.5000	12.70	6.0000	152.40	3.1250	79.38	55472	52472
1-9/64	.1406	28.97	.5000	12.70	6.0000	152.40	3.1250	79.38	55473	52473
1-5/32	.1562	29.37	.5000	12.70	6.0000	152.40	3.1250	79.38	55474	52474
1-11/64	.1719	29.77	.5000	12.70	6.0000	152.40	3.1250	79.38	55475	52475
1-3/16	.1875	30.16	.5000	12.70	6.0000	152.40	3.1250	79.38	55476	52476
1-13/64	.2031	30.56	.5000	12.70	6.0000	152.40	3.1250	79.38	55477	52477
1-7/32	.2188	30.96	.5000	12.70	6.0000	152.40	3.1250	79.38	55478	52478
1-15/64	.2344	31.35	.5000	12.70	6.0000	152.40	3.1250	79.38	55479	52479
1-1/4	.2500	31.75	.5000	12.70	6.0000	152.40	3.1250	79.38	55480	52480
1-17/64	.2656	32.15	.5000	12.70	6.0000	152.40	3.1250	79.38	55481	52481
1-9/32	.2812	32.54	.5000	12.70	6.0000	152.40	3.1250	79.38	55482	52482
1-19/64	.2969	32.94	.5000	12.70	6.0000	152.40	3.1250	79.38	55483	52483
1-5/16	.3125	33.34	.5000	12.70	6.0000	152.40	3.1250	79.38	55484	52484
1-21/64	.3281	33.73	.5000	12.70	6.0000	152.40	3.1250	79.38	55485	52485
1-11/32	.3438	34.13	.5000	12.70	6.0000	152.40	3.1250	79.38	55486	52486
1-23/64	.3594	34.53	.5000	12.70	6.0000	152.40	3.1250	79.38	55487	52487
1-3/8	.3750	34.93	.5000	12.70	6.0000	152.40	3.1250	79.38	55488	52488
1-25/64	.3906	35.32	.5000	12.70	6.0000	152.40	3.1250	79.38	55489	52489
1-13/32	.4062	35.72	.5000	12.70	6.0000	152.40	3.1250	79.38	55490	52490
1-27/64	.4219	36.12	.5000	12.70	6.0000	152.40	3.1250	79.38	55491	52491
1-7/16	.4375	36.51	.5000	12.70	6.0000	152.40	3.1250	79.38	55492	52492
1-29/64	.4531	36.91	.5000	12.70	6.0000	152.40	3.1250	79.38	55493	52493
1-15/32	.4688	37.31	.5000	12.70	6.0000	152.40	3.1250	79.38	55494	52494
1-31/64	.4844	37.70	.5000	12.70	6.0000	152.40	3.1250	79.38	55495	52495
1-1/2	.5000	38.10	.5000	12.70	6.0000	152.40	3.1250	79.38	55496	52496

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## 1/2" Reduced Shank Silver & Deming (continued) Styles 190, 190F

### INCH SETS

#### Sets in Various Cases

Number of Tools	Size Range	Case Style	Style 190 Round	Style 190F Flatted
8	9/16 - 1 X 1/16	plastic	57840	69860
8	9/16 - 1 X 1/16	metal	69857	69859
16	17/32 - 1 X 1/32	pouch	69890	69849
33	1/2 - 1 X 1/64	metal stand	69858	69848



Set 69859

## 1/4" Reduced Shank Silver & Deming Style 239

#### Features/Benefits:

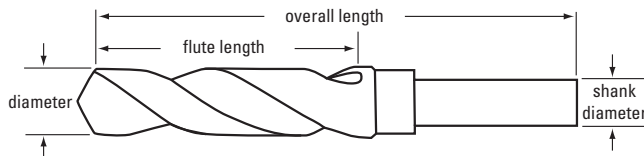
- General-purpose drills with 1/4" reduced round shank.
- Manufactured from high-speed steel.
- 118° point.
- Ideal for portable drilling due to increased rigidity.
- Black oxide finish standard from stock.

#### Application Information:

- wood
- sheet metal
- aluminum
- mild steels
- Ideal for use in portable electric drills where chuck capacity is 1/4".

#### Surface Treatment Information:

- Black oxide surface finish increases wear resistance and adds lubricity, improving chip flow.



Style 239 Black Oxide

### INCH SIZES

Drill Diameter Fraction	Decimal		Shank Diameter		Overall Length		Flute Length		Style 239 black oxide
	Decimal	mm	Inch	mm	Inch	mm	Inch	mm	
1/4	.2500	6.35	.2500	6.35	2.5000	63.50	1.3750	34.93	56316
5/16	.3125	7.94	.2500	6.35	2.8125	71.44	1.3750	34.93	56320
3/8	.3750	9.53	.2500	6.35	3.1250	79.38	1.6875	42.86	56324
7/16	.4375	11.11	.2500	6.35	3.4375	87.31	2.0000	50.80	56328
1/2	.5000	12.70	.2500	6.35	3.7500	95.25	2.2500	57.15	56332

### INCH SETS

#### Sets in Metal Case

Number of Tools	Size Range	Case Style	Style 239 Round
5	1/4 - 1/2 X 1/16	metal	56340

