



HIGH SPEED STEEL AND COBALT

REDUCED SHANK DRILLS

1/2" SHANKS — SILVER AND DEMING

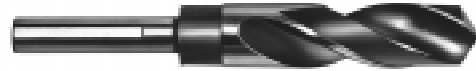
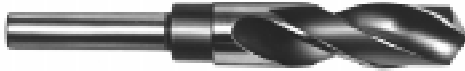
▶ LIST NO. 303 — HIGH SPEED STEEL, 118° POINT
1/2" STANDARD SHANK

● LIST NO. 303F — HIGH SPEED STEEL, 118° POINT
1/2" FLATTED SHANK
3-EQUAL FLATS FOR POSITIVE MORE RIGID
HOLDING IN 3-JAW CHUCKS

● LIST NO. 303C — COBALT, 135° NOTCHED POINT
1/2" STANDARD SHANK

● LIST NO. 303CF — COBALT, 135° NOTCHED POINT
1/2" FLATTED SHANK
3-EQUAL FLATS FOR POSITIVE MORE RIGID
HOLDING IN 3-JAW CHUCKS

Heavy web 8% cobalt content permits use at higher speeds in hardened stainless, heat treated and high temperature alloys.

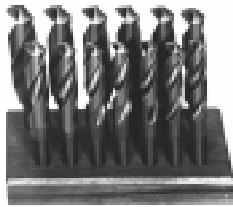


All sizes 6" overall with 3" flute length.

FRACTIONAL SIZES

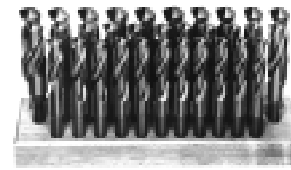
Size	Dec. Equiv.	Price Each			
		Standard 1/2" Shank		Flatted Shank	
		H.S. List No. 303	Cobalt List No. 303C	H.S. List No. 303F	Cobalt List No. 303CF
1/2	.5000	25.90	37.70	27.40	43.70
33/64	.5156	28.29	46.60	29.73	52.60
17/32	.5312	27.52	46.60	28.91	52.20
35/64	.5469	30.09	48.20	31.62	54.20
9/16	.5625	29.26	48.20	30.76	54.20
37/64	.5781	32.32	51.60	33.97	57.60
19/32	.5938	31.44	51.60	33.04	57.60
39/64	.6094	33.87	54.85	35.59	60.85
5/8	.6250	32.99	54.85	34.61	60.85
41/64	.6406	36.14	61.55	37.96	67.55
21/32	.6562	35.15	61.55	36.93	67.55
43/64	.6719	37.55	64.95	39.45	70.95
11/16	.6875	36.52	64.95	38.38	70.95
45/64	.7031	38.04	69.45	39.98	75.45
23/32	.7188	37.01	69.45	38.88	75.45
47/64	.7344	41.42	69.45	43.52	75.45
3/4	.7500	40.28	69.45	42.33	75.45
49/64	.7656	44.21	78.50	46.45	84.50
25/32	.7812	43.00	78.50	45.20	84.50
51/64	.7969	51.84	82.20	54.49	88.20
13/16	.8125	45.20	82.20	47.47	88.20
53/64	.8281	53.65	89.50	56.37	95.50
27/32	.8438	46.74	89.50	49.10	95.50
55/64	.8594	55.69	89.50	58.52	95.50
7/8	.8750	48.52	88.45	50.98	94.45
57/64	.8906	58.14	94.25	61.12	100.25
29/32	.9062	50.66	94.25	53.25	100.25
59/64	.9219	62.21	94.25	65.40	100.25
15/16	.9375	54.19	94.25	56.98	100.25
61/64	.9531	65.75	105.20	69.09	111.20
31/32	.9688	57.27	105.20	60.19	111.20
63/64	.9844	73.19	114.35	76.92	120.35
1	1.0000	63.77	114.35	67.02	120.35

Size	Dec. Equiv.	Price Each			
		Standard 1/2" Shank		Flatted Shank	
		H.S. List No. 303	Cobalt List No. 303C	H.S. List No. 303F	Cobalt List No. 303CF
1-1/64	1.0156	87.73	—	92.18	—
1-1/32	1.0312	77.79	146.35	81.76	152.35
1-3/64	1.0469	79.96	—	84.05	—
1-1/16	1.0625	74.88	157.95	78.69	163.95
1-5/64	1.0781	82.59	—	86.79	—
1-3/32	1.0938	82.91	168.85	87.12	174.85
1-7/64	1.1094	88.94	—	93.46	—
1-1/8	1.1250	85.09	179.70	89.41	185.70
1-9/64	1.1406	90.87	199.00	95.50	—
1-5/32	1.1562	88.39	188.50	92.89	194.50
1-11/64	1.1719	97.56	—	102.55	—
1-3/16	1.1875	93.41	197.10	98.16	203.10
1-13/64	1.2031	105.05	—	110.41	—
1-7/32	1.2188	104.41	207.70	109.74	213.70
1-15/64	1.2344	107.34	—	112.82	—
1-1/4	1.2500	103.43	218.30	108.71	224.30
1-17/64	1.2656	124.40	—	130.40	—
1-9/32	1.2812	120.78	308.25	126.93	314.25
1-19/64	1.2969	132.50	—	138.50	—
1-5/16	1.3125	128.79	308.25	134.55	314.25
1-21/64	1.3281	142.70	—	148.70	—
1-11/32	1.3438	138.88	312.75	145.98	318.75
1-23/64	1.3594	155.50	—	161.50	—
1-3/8	1.3750	147.23	312.75	154.72	318.75
1-25/64	1.3906	175.40	—	181.40	—
1-13/32	1.4062	171.38	337.95	180.08	343.95
1-27/64	1.4219	175.40	—	181.40	—
1-7/16	1.4375	161.97	337.95	170.19	343.95
1-29/64	1.4531	195.66	—	203.66	—
1-15/32	1.4688	188.48	344.70	198.09	350.70
1-31/64	1.4844	195.66	—	203.66	—
1-1/2	1.5000	178.11	344.70	187.16	350.70



HIGH SPEED STEEL AND COBALT

SETS



Pcs. Per Set	Set Description	Type of Holder	High Speed Steel Standard 1/2" Shanks		Cobalt Standard 1/2" Shanks	
			Set No.	Price Each	Set No.	Price Each
			8	9/16" thru 1" by 16ths	Metal Index	303SA
8	1-1/16" thru 1-1/2" by 16ths	Wood Block	303SB	980.00	303CB	2060.00
10	9/16" thru 1" by 16ths, 1-1/8" and 1-1/4"	Wood Block	303SJ	539.00	303CS	1024.00
13	17/32" thru 3/4" by 32nds, 13/16", 7/8", 15/16", 31/32" and 1"	Wood Block	303SD	545.00	303CD	959.00
33	1/2" thru 1" by 64ths	Wood Block	303SG	1460.00	303CG	2485.00