

**HAND
STRAIGHT SHANK
STRAIGHT FLUTE**



**SERIES 9000
HIGH SPEED STEEL**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	# OF FLUTES	OVERALL LENGTH	SHANK DIA.	ITEM#	LIST PRICE
1/16	.0625	1	4	2	.0625	TR97606	72.20
5/64	.0781	1	4	2	.0781	TR97607	72.20
3/32	.0938	1-1/4	4	2-1/2	.0938	TR97608	72.20
7/64	.1094	1-1/4	4	2-1/2	.1094	TR97609	72.20
1/8	.1250	1-1/2	4	3	.1250	TR97610	68.07
9/64	.1406	1-5/8	4	3-1/4	.1406	TR97611	68.07
5/32	.1562	1-5/8	4	3-1/4	.1562	TR97612	73.58
11/64	.1719	1-3/4	6	3-1/2	.1719	TR97613	73.58
3/16	.1875	1-3/4	6	3-1/2	.1875	TR97614	72.20
13/64	.2031	1-7/8	6	3-3/4	.2031	TR97615	72.20
7/32	.2188	1-7/8	6	3-3/4	.2188	TR97616	79.57
15/64	.2344	2	6	4	.2344	TR97617	79.57
1/4	.2500	2	6	4	.2500	TR97618	79.09
17/64	.2656	2-1/8	6	4-1/4	.2656	TR97619	79.57
9/32	.2812	2-1/8	6	4-1/4	.2812	TR97620	85.61
19/64	.2969	2-1/4	6	4-1/2	.2969	TR97621	85.61
5/16	.3125	2-1/4	6	4-1/2	.3125	TR97622	83.70
11/32	.3438	2-3/8	6	4-3/4	.3438	TR97623	97.15
3/8	.3750	2-1/2	6	5	.3750	TR97624	94.84
13/32	.4062	2-5/8	6	5-1/4	.4062	TR97625	110.07
7/16	.4375	2-3/4	6	5-1/2	.4375	TR97626	107.84
15/32	.4688	2-7/8	6	5-3/4	.4688	TR97627	119.30
1/2	.5000	3	6	6	.5000	TR97628	114.68
17/32	.5312	3-1/8	8	6-1/4	.5312	TR97629	123.92
9/16	.5625	3-1/4	8	6-1/2	.5625	TR97630	132.54
19/32	.5938	3-3/8	8	6-3/4	.5938	TR97631	147.32
5/8	.6250	3-1/2	8	7	.6250	TR97632	142.83
21/32	.6562	3-11/16	8	7-3/8	.6562	TR97633	160.08
11/16	.6875	3-7/8	8	7-3/4	.6875	TR97634	156.92
23/32	.7188	4-1/16	8	8-1/8	.7188	TR97635	171.90
3/4	.7500	4-3/16	8	8-3/8	.7500	TR97636	167.33
25/32	.7812	4-3/8	8	8-3/4	.7812	TR97637	183.61
13/16	.8125	4-9/16	8	9-1/8	.8125	TR97638	167.33
27/32	.8438	4-11/16	8	9-3/8	.8438	TR97639	201.02
7/8	.8750	4-7/8	8	9-3/4	.8750	TR97640	202.76
29/32	.9062	5	8	10	.9062	TR97641	224.06
15/16	.9375	5-1/8	8	10-1/4	.9375	TR97642	202.92
31/32	.9688	5-5/16	8	10-5/8	.9688	TR97643	246.70
1	1.0000	5-7/16	8	10-7/8	1.0000	TR97644	245.60
1-1/8	1.1250	5-13/16	8	11-5/8	1.1250	TR97645	320.97
1-1/4	1.2500	6-1/8	8	12-1/4	1.2500	TR97646	394.14
1-3/8	1.3750	6-5/16	10	12-5/8	1.3750	TR97647	465.86
1-1/2	1.5000	6-1/2	10	13	1.5000	TR97648	549.84

**HAND
STRAIGHT SHANK
LEFT HAND SPIRAL - RIGHT HAND CUT**



**SERIES 9050
HIGH SPEED STEEL**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	# OF FLUTES	OVERALL LENGTH	SHANK DIA.	ITEM#	LIST PRICE
1/16	.0625	1	4	2	.0625	TR97350	84.72
5/64	.0781	1	4	2	.0781	TR97351	84.72
3/32	.0938	1-1/4	4	2-1/2	.0938	TR97352	84.72
7/64	.1094	1-1/4	4	2-1/2	.1094	TR97353	84.72
1/8	.1250	1-1/2	4	3	.1250	TR97354	83.70
9/64	.1406	1-5/8	4	3-1/4	.1406	TR97355	83.70
5/32	.1562	1-5/8	4	3-1/4	.1562	TR97356	90.26
11/64	.1719	1-3/4	6	3-1/2	.1719	TR97357	90.26
3/16	.1875	1-3/4	6	3-1/2	.1875	TR97358	90.26
13/64	.2031	1-7/8	6	3-3/4	.2031	TR97359	90.26
7/32	.2188	1-7/8	6	3-3/4	.2188	TR97360	87.87
15/64	.2344	2	6	4	.2344	TR97361	87.87
1/4	.2500	2	6	4	.2500	TR97362	87.47
17/64	.2656	2-1/8	6	4-1/4	.2656	TR97363	87.87
9/32	.2812	2-1/8	6	4-1/4	.2812	TR97364	97.15
19/64	.2969	2-1/4	6	4-1/2	.2969	TR97365	97.15
5/16	.3125	2-1/4	6	4-1/2	.3125	TR97366	96.22
11/32	.3438	2-3/8	6	4-3/4	.3438	TR97367	108.20
3/8	.3750	2-1/2	6	5	.3750	TR97368	107.88
13/32	.4062	2-5/8	6	5-1/4	.4062	TR97369	119.87
7/16	.4375	2-3/4	6	5-1/2	.4375	TR97370	120.27
15/32	.4688	2-7/8	6	5-3/4	.4688	TR97371	132.78
1/2	.5000	3	6	6	.5000	TR97372	129.54
17/32	.5312	3-1/8	8	6-1/4	.5312	TR97373	151.25
9/16	.5625	3-1/4	8	6-1/2	.5625	TR97374	152.10
19/32	.5938	3-3/8	8	6-3/4	.5938	TR97375	165.42
5/8	.6250	3-1/2	8	7	.6250	TR97376	162.39
21/32	.6562	3-11/16	8	7-3/8	.6562	TR97377	178.06
11/16	.6875	3-7/8	8	7-3/4	.6875	TR97378	177.53
23/32	.7188	4-1/16	8	8-1/8	.7188	TR97379	191.42
3/4	.7500	4-3/16	8	8-3/8	.7500	TR97380	187.74
25/32	.7812	4-3/8	8	8-3/4	.7812	TR97381	204.02
13/16	.8125	4-9/16	8	9-1/8	.8125	TR97382	204.02
27/32	.8438	4-11/16	8	9-3/8	.8438	TR97383	223.29
7/8	.8750	4-7/8	8	9-3/4	.8750	TR97384	223.29
29/32	.9062	5	8	10	.9062	TR97385	248.92
15/16	.9375	5-1/8	8	10-1/4	.9375	TR97386	248.92
31/32	.9688	5-5/16	8	10-5/8	.9688	TR97387	274.11
1	1.0000	5-7/16	8	10-7/8	1.0000	TR97388	274.11
1-1/8	1.1250	5-13/16	8	11-5/8	1.1250	TR97389	352.84
1-1/4	1.2500	6-1/8	10	12-1/4	1.2500	TR97390	434.15
1-3/8	1.3750	6-5/16	10	12-5/8	1.3750	TR97391	512.22
1-1/2	1.5000	6-1/2	10	13	1.5000	TR97392	606.70

For technical information, please see page 240.

THRU 1/2" DIAMETER	ABOVE 1/2" TO 5/8"	ABOVE 5/8" TO 1-1/2"
+ .0002, -.0000	+ .0003, -.0000	+ .0001, -.0004