

PRICE

LIST

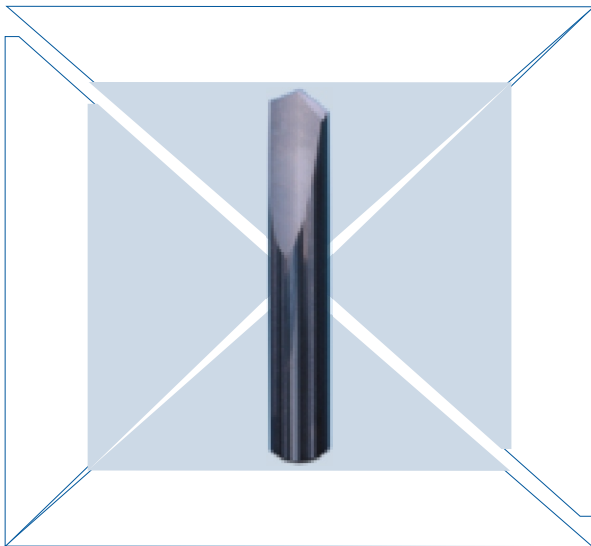
**Solid Carbide
Drills & Reamers**



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SALIENT FEATURES

Spade Drills

- For thin sheet applications, shallow hole drilling, Spot drilling. Massive web construction insures maximum tool life or milling cast Iron, non ferrous metals and other easy to machine materials

Combined Drill & Countersinks

- These are ideal for drilling & countersinking in difficult materials. May be used in high production applications where tolerance, finish and down-times are a considerations. Included angle is 60°.

Solid Carbide Spade Drills

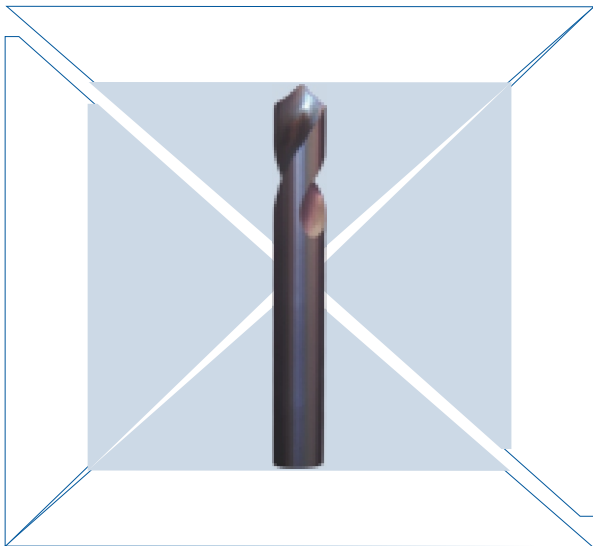
DIA	DEC. EQUIV.	LOC	OAL	EDP#	LIST PRICE	DIA	DEC. EQUIV.	LOC	OAL	EDP#	LIST PRICE
1/32	0.0312	3/16	1-1/4	2-867-004	\$ 11.30	3/16	0.1875	9/16	2	2-867-018	\$ 15.70
3/64	0.0469	7/32	1-1/2	2-867-005	11.30	7/32	0.2188	19/32	2	2-867-020	20.75
1/16	0.0625	5/16	1-1/2	2-867-006	11.30	1/4	0.2500	11/16	2	2-867-025	19.40
5/64	0.0781	7/16	1-1/2	2-867-007	11.30	9/32	0.2812	3/4	2-1/2	2-867-028	24.40
3/32	0.0938	3/8	1-1/2	2-867-009	11.30	5/16	0.3125	7/8	2-1/2	2-867-032	23.40
7/64	0.1094	7/16	1-1/2	2-867-010	11.30	11/32	0.3438	15/16	2-1/2	2-867-036	29.30
1/8	0.1250	7/16	1-1/2	2-867-012	9.85	3/8	0.3750	1	2-1/2	2-867-038	28.40
9/64	0.1406	1/2	2	2-867-013	17.95	13/32	0.4062	1	2-1/2	2-867-041	43.40
5/32	0.1562	15/32	2	2-867-014	17.95	7/16	0.4375	1-1/16	2-1/2	2-867-043	41.90
11/64	0.1719	9/16	2	2-867-014	17.95	15/32	0.4687	1-3/32	2-1/2	2-867-046	55.45
						1/2	0.5000	1-1/8	3	2-867-050	55.45

Solid Carbide Combined Drill & Countersinks Regular Length 60°

SIZE	BODY DIA	DRILL DIA	OAL	EDP#	LIST PRICE
00	1/8	.025	1-1/4	2-872-020	\$ 20.65
0	1/8	1/32	1-1/4	2-872-010	19.90
1	1/8	3/64	1-1/4	2-872-001	17.65
2	3/16	5/64	1-7/8	2-872-002	23.95
3	1/4	7/64	2	2-872-003	29.95
4	5/16	1/8	2-1/8	2-872-004	39.40
5	7/16	3/16	2-3/4	2-872-005	55.00
6	1/2	7/32	3	2-872-006	79.40
7	5/8	1/4	3-1/4	2-872-007	172.50
8	3/4	5/16	3-1/4	2-872-008	242.90

Solid Carbide Combined Drill & Countersinks Long Length 60°

SIZE	BODY DIA	DRILL DIA	OAL	EDP#	LIST PRICE
1	1/8	3/64	4	2-877-104	\$ 37.40
2	3/16	5/64	4	2-877-204	51.85
3	1/4	7/64	4	2-877-304	59.95
4	5/16	1/8	4	2-877-404	74.90
5	7/16	3/16	6	2-877-506	122.85
6	1/2	7/32	6	2-877-606	157.50
7	5/8	1/4	6	2-877-706	299.00
8	3/4	5/16	6	2-877-806	379.00



SALIENT FEATURES

Spotting Drills

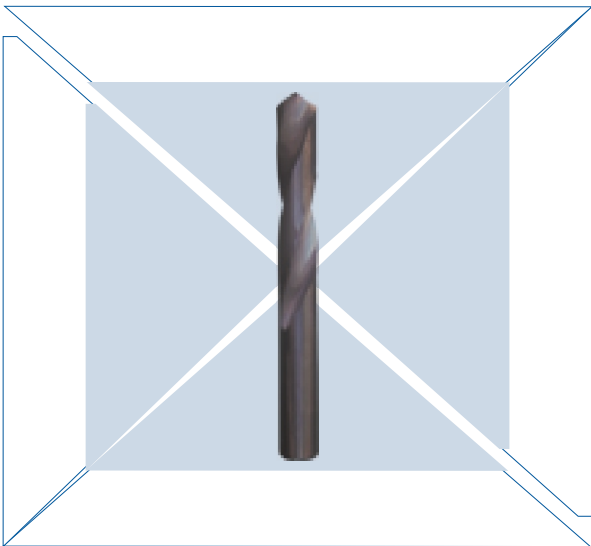
- Very rigid tool. Used at higher speed & feed. Ideal for accurate spotting on NC machines.

Solid Carbide Spotting Drills 90° & 120°

DIA	DEC. EQUIV.	LOC	OAL	90° EDP#	120° EDP#	LIST PRICE
1/8	0.1250	3/8	1-1/2	2-181-012	2-182-012	\$ 25.90
3/16	0.1875	1/2	2	2-181-018	2-182-018	32.85
1/4	0.2500	5/8	2	2-181-025	2-182-025	44.35
5/16	0.3125	5/8	2	2-181-032	2-182-032	57.85
3/8	0.3750	1	2	2-181-038	2-182-038	75.25
7/16	0.4375	1	2	2-181-043	2-182-043	113.65
1/2	0.5000	1	2	2-181-050	2-182-050	124.90
5/8	0.6250	1-1/8	2-5/16	2-181-062	2-182-062	245.50
3/4	0.7500	1-1/4	2-5/8	2-181-075	2-182-075	310.45

Combined Drill & Countersink

SET 6 PC. SET #1-#6	LIST PRICE
EDP # 2-872-SET	\$ 245.35



SALIENT FEATURES

Jobber Length

- For use on non-ferrous alloys, plastics, highly abrasive materials, cast iron and aluminum. Not to be used on steel.

Jobber Length Fractional Size 118° Point

DIA.	DEC. EQUIV.			EDP#	LIST PRICE	DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1/64	0.0156	1/4	1	2-855-003	\$ 23.90	17/64	0.2656	2-1/8	3-1/2	2-855-027	\$ 29.90
1/32	0.0312	3/8	1-1/8	2-855-004	12.00	9/32	0.2812	2-1/8	3-1/2	2-855-028	33.00
3/64	0.0469	3/4	1-1/2	2-855-005	11.90	19/64	0.2969	2-3/8	3-3/4	2-855-030	36.00
1/16	0.0625	3/4	1-1/2	2-855-006	11.90	5/16	0.3125	2-3/8	3-3/4	2-855-032	38.00
5/64	0.0781	7/8	1-3/4	2-855-007	11.90	21/64	0.3281	2-1/2	4	2-855-035	41.95
3/32	0.0938	1	2	2-855-009	11.90	11/32	0.3438	2-1/2	4	2-855-036	46.50
7/64	0.1094	1-1/4	2-1/4	2-855-010	12.20	23/64	0.3594	2-1/2	4	2-855-037	51.00
1/8	0.1250	1-1/4	2-1/4	2-855-012	12.80	3/8	0.3750	2-3/4	4-1/4	2-855-038	55.00
9/64	0.1406	1-3/8	2-1/2	2-855-013	15.75	25/64	0.3906	2-7/8	4-1/2	2-855-040	61.00
5/32	0.1562	1-3/8	2-1/2	2-855-014	16.70	13/32	0.4062	2-7/8	4-1/2	2-855-041	69.00
11/64	0.1719	1-5/8	2-3/4	2-855-015	19.50	27/64	0.4219	2-7/8	4-1/2	2-855-042	75.00
3/16	0.1875	1-5/8	2-3/4	2-855-018	19.70	7/16	0.4375	2-7/8	4-1/2	2-755-043	82.00
13/64	0.2031	1-3/4	3	2-855-019	23.70	29/64	0.4531	3	4-3/4	2-855-045	89.00
7/32	0.2188	1-3/4	3	2-855-020	24.50	15/32	0.4688	3	4-3/4	2-855-046	95.00
15/64	0.2344	2	3-1/4	2-855-024	28.90	31/64	0.4844	3	4-3/4	2-855-048	97.00
1/4	0.2500	2	3-1/4	2-855-025	26.90	1/2	0.5000	3	4-3/4	2-855-050	96.00

Jobber Length Letter Size 118° Point

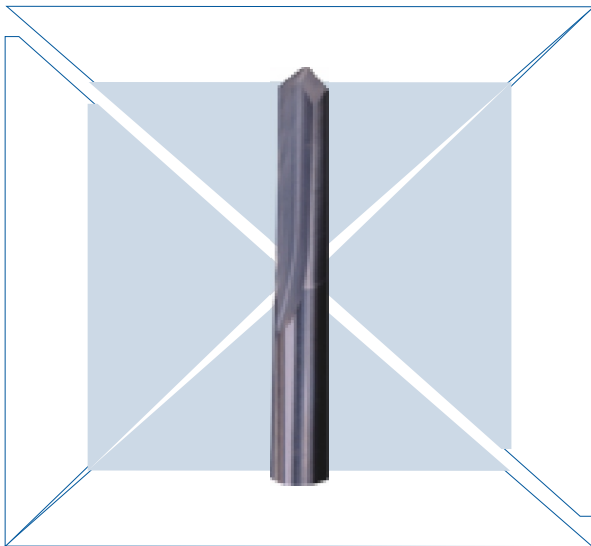
SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
A	0.234	2	3-1/4	2-856-00A	\$ 29.95	N	0.302	2-3/8	3-3/4	2-856-00N	\$ 42.00
B	0.238	2	3-1/4	2-856-00B	32.00	O	0.316	2-3/8	3-3/4	2-856-00O	43.00
C	0.242	2	3-1/4	2-856-00C	32.00	P	0.323	2-3/8	3-3/4	2-856-00P	45.00
D	0.246	2	3-1/4	2-856-00D	35.25	Q	0.332	2-1/2	4	2-856-00Q	49.00
E	0.250	2	3-1/4	2-856-00E	26.90	R	0.339	2-1/2	4	2-856-00R	50.00
F	0.257	2	3-1/4	2-856-00F	33.50	S	0.348	2-1/2	4	2-856-00S	52.00
G	0.261	2-1/8	3-1/2	2-856-00G	34.00	T	0.358	2-1/2	4	2-856-00T	53.00
H	0.266	2-1/8	3-1/2	2-856-00H	36.00	U	0.368	2-3/4	4-1/4	2-856-00U	58.00
I	0.272	2-1/8	3-1/2	2-856-00I	36.00	V	0.377	2-3/4	4-1/4	2-856-00V	62.00
J	0.277	2-1/8	3-1/2	2-856-00J	37.00	W	0.386	2-7/8	4-1/2	2-856-00W	70.00
K	0.281	2-1/8	3-1/2	2-856-00K	37.50	X	0.397	2-7/8	4-1/2	2-856-00X	72.00
L	0.291	2-1/8	3-1/2	2-856-00L	40.00	Y	0.404	2-7/8	4-1/2	2-856-00Y	75.00
M	0.295	2-3/8	3-3/4	2-856-00M	41.00	Z	0.413	2-7/8	4-1/2	2-856-00Z	90.00

Jobber Length Wire Gauge Size 118° Point

DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
80	0.0134	1/4	1	2-857-080	\$29.95	40	0.0980	1	2	2-857-040	\$ 12.00
79	0.0145	1/4	1	2-857-079	29.95	39	0.0995	1-1/4	2-1/4	2-857-039	14.00
78	0.0160	1/4	1	2-857-078	29.95	38	0.1015	1-1/4	2-1/4	2-857-038	14.00
77	0.0180	1/4	1	2-857-077	29.95	37	0.1040	1-1/4	2-1/4	2-857-037	14.00
76	0.0200	1/4	1	2-857-076	26.95	36	0.1065	1-1/4	2-1/4	2-857-036	14.00
75	0.0210	1/4	1	2-857-075	26.95	35	0.1100	1-1/4	2-1/4	2-857-035	14.00
74	0.0225	1/4	1	2-857-074	26.95	34	0.1110	1-1/4	2-1/4	2-857-034	14.00
73	0.0240	1/4	1	2-857-073	26.95	33	0.1130	1-1/4	2-1/4	2-857-033	16.00
72	0.0250	5/16	1	2-857-072	26.95	32	0.1160	1-1/4	2-1/4	2-857-032	16.00
71	0.0260	5/16	1	2-857-071	26.95	31	0.1200	1-1/4	2-1/4	2-857-031	16.00
70	0.0280	5/16	1	2-857-070	21.60	30	0.1285	1-1/4	2-1/4	2-857-030	18.50
69	0.0292	5/16	1	2-857-069	20.70	29	0.1360	1-3/8	2-1/2	2-857-029	19.00
68	0.0310	3/8	1-1/8	2-857-068	20.50	28	0.1405	1-3/8	2-1/2	2-857-028	19.00
67	0.0320	3/8	1-1/8	2-857-067	20.50	27	0.1440	1-3/8	2-1/2	2-857-027	19.00
66	0.0330	3/8	1-1/8	2-857-066	20.70	26	0.1470	1-3/8	2-1/2	2-857-026	19.00
65	0.0350	3/8	1-1/8	2-857-065	23.20	25	0.1495	1-3/8	2-1/2	2-857-025	19.00
64	0.0360	1/2	1-1/4	2-857-064	23.40	24	0.1520	1-3/8	2-1/2	2-857-024	19.00
63	0.0370	1/2	1-1/4	2-857-063	23.55	23	0.1540	1-3/8	2-1/2	2-857-023	19.00
62	0.0380	1/2	1-1/4	2-857-062	24.10	22	0.1570	1-3/8	2-1/2	2-857-022	19.00
61	0.0390	1/2	1-1/4	2-857-061	24.10	21	0.1590	1-3/8	2-1/2	2-857-021	19.00
60	0.0400	3/4	1-1/2	2-857-060	24.10	20	0.1610	1-3/8	2-1/2	2-857-020	19.00
59	0.0410	3/4	1-1/2	2-857-059	24.10	19	0.1660	1-5/8	2-3/4	2-857-019	19.00
58	0.0420	3/4	1-1/2	2-857-058	24.10	18	0.1695	1-5/8	2-3/4	2-857-018	19.00
57	0.0430	3/4	1-1/2	2-857-057	24.30	17	0.1730	1-5/8	2-3/4	2-857-017	19.25
56	0.0465	3/4	1-1/2	2-857-056	9.00	16	0.1770	1-5/8	2-3/4	2-857-016	19.25
55	0.0520	3/4	1-1/2	2-857-055	9.00	15	0.1800	1-5/8	2-3/4	2-857-015	19.25
54	0.0550	3/4	1-1/2	2-857-054	9.00	14	0.1820	1-5/8	2-3/4	2-857-014	19.25
53	0.0595	3/4	1-1/2	2-857-053	9.00	13	0.1850	1-5/8	2-3/4	2-857-013	19.50
52	0.0635	3/4	1-1/2	2-857-052	9.00	12	0.1890	1-5/8	2-3/4	2-857-012	19.50
51	0.0670	3/4	1-1/2	2-857-051	9.00	11	0.1910	1-5/8	2-3/4	2-857-011	19.50
50	0.0700	7/8	1-3/4	2-857-050	12.00	10	0.1935	1-5/8	2-3/4	2-857-010	19.50
49	0.0730	7/8	1-3/4	2-857-049	12.00	9	0.1960	1-3/4	3	2-857-009	22.00
48	0.0760	7/8	1-3/4	2-857-048	12.00	8	0.1990	1-3/4	3	2-857-008	22.00
47	0.0785	7/8	1-3/4	2-857-047	12.00	7	0.2010	1-3/4	3	2-857-007	22.00
46	0.0810	7/8	1-3/4	2-857-046	12.00	6	0.2040	1-3/4	3	2-857-006	22.00
45	0.0820	7/8	1-3/4	2-857-045	12.00	5	0.2055	1-3/4	3	2-857-005	22.00
44	0.0860	1	2	2-857-044	12.00	4	0.2090	1-3/4	3	2-857-004	22.00
43	0.0890	1	2	2-857-043	12.00	3	0.2130	1-3/4	3	2-857-003	22.00
42	0.0935	1	2	2-857-042	12.00	2	0.2210	1-3/4	3	2-857-002	22.00
41	0.0960	1	2	2-857-041	12.00	1	0.2280	1-3/4	3	2-857-001	22.00

Jobber Length Metric Size 118° Point

DIA. MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1.50	0.0591	3/4	1-1/2	2-858-0015	\$ 11.90	7.00	0.2756	2-1/8	3-1/2	2-858-007	\$ 36.00
2.00	0.0787	7/8	1-3/4	2-858-002	11.90	7.50	0.2953	2-3/8	3-3/4	2-858-0075	41.00
2.50	0.0984	1	2	2-858-0025	11.90	8.00	0.3150	2-3/8	3-3/4	2-858-008	45.00
3.00	0.1181	1-1/4	2-1/4	2-858-003	13.50	8.50	0.3346	2-1/2	4	2-858-0085	46.00
3.50	0.1378	1-3/8	2-1/2	2-858-0035	16.00	9.00	0.3543	2-1/2	4	2-858-009	59.00
4.00	0.1575	1-3/8	2-1/2	2-858-004	18.00	9.50	0.3740	2-3/4	4-1/4	2-858-0095	65.00
4.50	0.1772	1-5/8	2-3/4	2-858-0045	21.00	10.00	0.3937	2-7/8	4-1/2	2-858-010	75.00
5.00	0.1968	1-3/4	3	2-858-005	22.00	10.50	0.4134	2-7/8	4-1/2	2-858-0105	85.00
5.50	0.2165	1-3/4	3	2-858-0055	24.00	11.00	0.4331	2-7/8	4-1/2	2-858-011	95.00
6.00	0.2362	2	3-1/4	2-858-006	25.00	11.50	0.4528	3	4-3/4	2-858-0115	97.00
6.50	0.2559	2	3-1/4	2-858-0065	32.00	12.00	0.4724	3	4-3/4	2-858-012	99.00



SALIENT FEATURES

Straight Flute Drills

- Designed for use in hardened steel HRC 40 to 65. Easy penetration & minimum deflection produces accurate sized holes & reamer finish.

Straight Flute Drills Fractional Size 140° Point

DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1/32	0.0312	3/8	1-1/8	2-863-003	\$ 18.15	17/64	0.2656	1-7/16	2-5/8	2-863-027	\$ 47.20
3/64	0.0469	1/2	1-1/2	2-863-005	18.15	9/32	0.2812	1-1/2	2-11/16	2-863-028	49.05
1/16	0.0625	5/8	1-5/8	2-863-006	14.05	19/64	0.2969	1-9/16	2-3/4	2-863-030	54.70
5/64	0.0781	11/16	1-11/16	2-863-007	19.55	5/16	0.3125	1-5/8	2-13/16	2-863-032	39.75
3/32	0.0938	3/4	1-3/4	2-863-009	17.50	21/64	0.3281	1-11/16	2-15/16	2-863-035	57.60
7/64	0.1094	13/16	1-13/16	2-863-010	23.40	11/32	0.3438	1-11/16	3	2-863-036	63.95
1/8	0.1250	7/8	1-7/8	2-863-012	20.20	23/64	0.3594	1-3/4	3-1/16	2-863-037	73.45
9/64	0.1406	15/16	1-15/16	2-863-013	18.10	3/8	0.3750	1-13/16	3-1/8	2-863-037	58.85
5/32	0.1562	1	2-1/16	2-863-014	18.70	25/64	0.3906	1-7/8	3/4	2-863-040	85.75
11/64	0.1719	1-1/16	2-1/8	2-863-015	18.10	13/32	0.4062	1-15/16	3-5/16	2-863-041	95.10
3/16	0.1875	1-1/8	2-3/16	2-863-018	19.40	27/64	0.4219	2	3-3/8	2-863-042	106.05
13/64	0.2031	1-3/16	2-1/4	2-863-019	28.30	7/16	0.4375	2-1/16	3-7/16	2-863-043	88.30
7/32	0.2188	1-1/4	2-3/8	2-863-020	28.30	29/64	0.4531	2-1/8	3-9/16	2-863-045	127.15
15/64	0.2344	1-5/16	2-7/16	2-863-024	36.15	15/32	0.4688	2-1/8	3-5/8	2-863-046	133.60
1/4	0.2500	1-3/8	2-1/2	2-863-025	33.00	31/64	0.4844	2-3/16	3-11/16	2-863-048	133.60
						1/2	0.5000	2-1/4	3-3/4	2-863-050	108.70

Straight Flute Drills Letter Size 140° Point

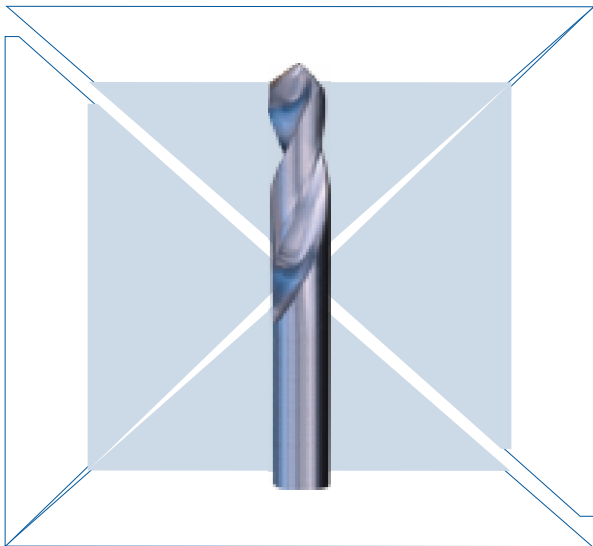
DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
A	0.234	1-5/16	2-7/16	2-864-00A	\$ 36.15	N	0.302	1-5/8	2-13/16	2-864-00N	\$ 58.30
B	0.238	1-3/8	2-1/2	2-864-00B	37.90	O	0.316	1-11/16	2-15/16	2-864-00O	60.00
C	0.242	1-3/8	2-1/2	2-864-00C	38.20	P	0.323	1-11/16	2-15/16	2-864-00P	60.60
D	0.246	1-3/8	2-1/2	2-864-00D	38.20	Q	0.332	1-11/16	3	2-864-00Q	62.85
E	0.250	1-3/8	2-1/2	2-864-00E	33.00	R	0.339	1-11/16	3	2-864-00R	63.25
F	0.257	1-7/16	2-5/8	2-864-00F	44.80	S	0.348	1-3/4	3-1/16	2-864-00S	68.25
G	0.261	1-7/16	2-5/8	2-864-00G	47.05	T	0.358	1-3/4	3-1/16	2-864-00T	75.00
H	0.266	1-1/2	2-11/16	2-864-00H	48.25	U	0.368	1-13/16	3-1/8	2-864-00U	78.45
I	0.272	1-1/2	2-11/16	2-864-00I	48.25	V	0.377	1-7/8	3-1/4	2-864-00V	79.65
J	0.277	1-1/2	2-11/16	2-864-00J	49.20	W	0.386	1-7/8	3-1/4	2-864-00W	81.30
K	0.281	1-1/2	2-11/16	2-864-00K	54.20	X	0.397	1-15/16	3-5/16	2-864-00X	88.35
L	0.290	1-9/16	2-3/4	2-864-00L	56.40	Y	0.404	1-15/16	3-5/16	2-864-00Y	97.20
M	0.295	1-9/16	2-3/4	2-864-00M	57.45	Z	0.413	2	3-3/8	2-864-00Z	99.65

Straight Flute Drills Wire Gauge Size 140° Point

DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
56	0.0465	1/2	1-1/2	2-865-056	\$12.10	28	0.1405	15/16	1-15/16	2-865-028	\$19.85
55	0.0520	1/2	1-1/2	2-865-055	12.10	27	0.1440	1	2-1/16	2865-027	20.10
54	0.0550	1/2	1-1/2	2-865-054	12.15	26	0.1470	1	2-1/16	2-865-026	20.10
53	0.0595	1/2	1-1/2	2-865-053	12.15	25	0.1495	1	2-1/16	2-865-025	20.60
52	0.0635	11/16	1-11/16	2-865-052	12.45	24	0.1520	1	2-1/16	2-865-024	21.40
51	0.0670	11/16	1-11/16	2-865-051	12.45	23	0.1540	1	2-1/16	2-865-023	21.90
50	0.0700	11/16	1-11/16	2-865-050	12.70	22	0.1570	1-1/16	2-1/8	2-865-022	22.05
49	0.0730	11/16	1-11/16	2-865-049	12.75	21	0.1590	1-1/16	2-1/8	2-865-021	22.65
48	0.0760	11/16	1-11/16	2-865-048	13.05	20	0.1610	1-1/16	2-1/8	2-865-020	23.85
47	0.0785	3/4	1-3/4	2-865-047	13.05	19	0.1660	1-1/16	2-1/8	2-865-019	25.40
46	0.0810	3/4	1-3/4	2-865-046	13.05	18	0.1695	1-1/16	2-1/8	2-865-018	25.40
45	0.0820	3/4	1-3/4	2-865-045	13.60	17	0.1730	1-1/8	2-3/16	2-865-017	25.80
44	0.0860	3/4	1-3/4	2-865-044	13.80	16	0.1770	1-1/8	2-3/16	2-865-016	26.15
43	0.0890	3/4	1-3/4	2-865-043	13.95	15	0.1800	1-1/8	2-3/16	2-865-015	26.30
42	0.0935	3/4	1-3/4	2-865-042	14.10	14	0.1820	1-1/8	2-3/16	2-865-014	26.50
41	0.0960	13/16	1-13/16	2-865-041	14.40	13	0.1850	1-1/8	2-3/16	2-865-013	26.95
40	0.0980	13/16	1-13/16	2-865-040	14.70	12	0.1890	1-3/16	2-1/4	2-865-012	27.30
39	0.0995	13/16	1-13/16	2-865-039	14.70	11	0.1910	1-3/16	2-1/4	2-865-011	27.75
38	0.1015	13/16	1-13/16	2-865-038	15.30	10	0.1935	1-3/16	2-1/4	2-865-010	27.75
37	0.1040	13/16	1-13/16	2-865-037	15.45	9	0.1960	1-3/16	2-1/4	2-865-009	28.75
36	0.1065	13/16	1-13/16	2-865-036	15.75	8	0.1990	1-3/16	2-1/4	2-865-008	29.40
35	0.1100	7/8	1-7/8	2-865-035	15.90	7	0.2010	1-3/16	2-1/4	2-865-007	29.90
34	0.1110	7/8	1-7/8	2-865-034	16.35	6	0.2040	1-1/4	2-3/8	2-865-006	31.45
33	0.1130	7/8	1-7/8	2-865-033	16.50	5	0.2055	1-1/4	2-3/8	2-865-005	31.45
32	0.1160	7/8	1-7/8	2-865-032	16.50	4	0.2090	1-1/4	2-3/8	2-865-004	31.95
31	0.1200	7/8	1-7/8	2-865-031	16.65	3	0.2130	1-1/4	2-3/8	2-865-003	33.15
30	0.1285	15/16	1-15/16	2-865-030	18.65	2	0.2210	1-5/16	2-7/16	2-865-002	34.05
29	0.1360	15/16	1-15/16	2-865-029	18.90	1	0.2280	1-5/16	2-7/16	2-865-001	49.80

Straight Flute Drills Metric Size 140° Point

DIA MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1.50	0.0591	1/2	1-1/2	2-866-0015	\$ 11.95	7.00	0.2756	1-1/2	2-11/16	2-866-007	\$ 46.10
2.00	0.0787	3/4	1-3/4	2-866-002	12.68	7.50	0.2953	1-9/16	2-3/4	2-866-0075	50.65
2.50	0.0984	13/16	1-13/16	2-866-0025	14.25	8.00	0.3150	1-5/8	2-13/16	2-866-008	57.30
3.00	0.1181	7/8	1-7/8	2-866-003	16.05	8.50	0.3346	1-11/16	3	2-866-0085	62.75
3.50	0.1378	15/16	1-15/16	2-866-0035	18.95	9.00	0.3543	1-3/4	3-1/16	2-866-009	72.60
4.00	0.1575	1-1/16	2-1/8	2-866-004	21.45	9.50	0.3740	1-13/16	3-1/8	2-866-0095	81.75
4.50	0.1772	1-1/8	2-3/16	2-866-0045	25.28	10.00	0.3937	1-7/8	3-1/4	2-866-010	95.55
5.00	0.1968	1-3/16	2-1/4	2-866-005	27.50	10.50	0.4134	2	3-3/8	2-866-0105	102.65
5.50	0.2165	1-1/4	2-3/8	2-866-0055	31.30	11.00	0.4331	2-1/16	3-7/16	2-866-011	118.45
6.00	0.2362	1-5/16	2-7/16	2-866-006	35.25	11.50	0.4528	2-1/8	4	2-866-0115	128.70
6.50	0.2559	1-7/16	2-5/8	2-866-0065	39.45	12.00	0.4724	2-1/8	4-5/8	2-866-012	133.20



SALIENT FEATURES

Stub Length (Slow Spiral)

- High temperature on alloy steels, stainless steels, Inconel, cast iron, titanium work hardened and gummy materials

Stub Length (Slow Spiral) Fractional Size 135° Point

DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1/32	0.0312	3/8	1-1/8	2-859-004	\$ 11.50	9/32	0.2812	1-1/2	2-11/16	2-859-028	\$ 46.65
3/64	0.0469	1/2	1-1/2	2-859-005	11.50	19/64	0.2969	1-9/16	2-3/4	2-859-030	52.05
1/16	0.0625	5/8	1-5/8	2-859-006	8.95	5/16	0.3125	1-5/8	2-13/16	2-859-032	38.95
5/64	0.0781	11/16	1-11/16	2-859-007	12.40	21/64	0.3281	1-11/16	2-15/16	2-859-035	54.85
3/32	0.0938	3/4	1-3/4	2-859-009	12.45	11/32	0.3438	1-11/16	3	2-859-036	60.90
7/64	0.1094	13/16	1-13/16	2-859-010	14.85	23/64	0.3594	1-3/4	3-1/16	2-859-037	69.90
1/8	0.1250	7/8	1-7/8	2-859-012	12.40	3/8	0.3750	1-13/16	3-1/8	2-859-038	57.40
9/64	0.1406	15/16	1-15/16	2-859-013	17.25	25/64	0.3906	1-7/8	3-1/4	2-859-040	81.60
5/32	0.1562	1	2-1/16	2-859-014	17.80	13/32	0.4062	1-15/16	3-5/16	2-859-041	90.45
11/64	0.1719	1-1/16	2-1/8	2-859-015	22.45	27/64	0.4219	2	3-3/8	2-859-042	100.95
3/16	0.1875	1-1/8	2-3/16	2-859-018	18.40	7/16	0.4375	2-1/16	3-7/16	2-859-043	84.65
13/64	0.2031	1-3/16	2-1/4	2-859-019	26.85	29/64	0.4531	2-1/8	3-9/16	2-859-045	121.05
7/32	0.2188	1-1/4	2-3/8	2-859-020	26.85	15/32	0.4688	2-1/8	3-5/8	2-859-046	127.15
15/64	0.2344	1-5/16	2-7/16	2-859-024	34.45	31/64	0.4844	2-3/16	3-11/16	2-859-048	127.15
1/4	0.2500	1-3/8	2-1/2	2-859-025	31.50	1/2	0.5000	2-1/4	3-3/4	2-859-050	104.95
17/64	0.2656	1-7/16	2-5/8	2-859-027	44.95						

Stub Length (Slow Spiral) Letter Size 135° Point

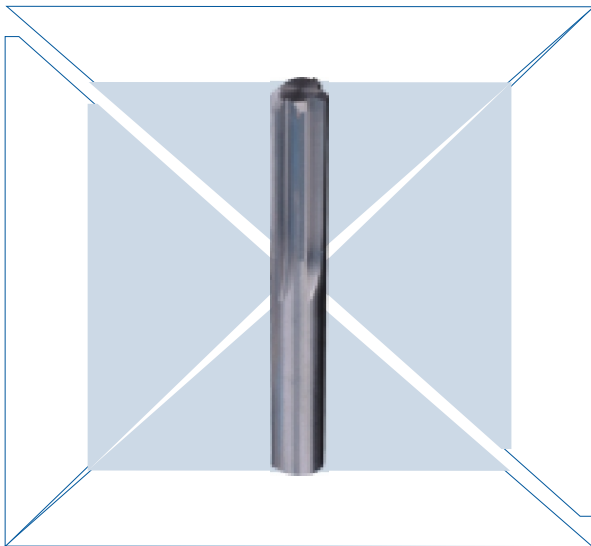
SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
A	0.234	1-5/16	2-7/16	2-860-00A	\$ 34.40	N	0.302	1-5/8	2-13/16	2-860-00N	\$ 55.40
B	0.238	1-3/8	2-1/2	2-860-00B	36.15	O	0.316	1-11/16	2-15/16	2-860-00O	57.15
C	0.242	1-3/8	2-1/2	2-860-00C	36.30	P	0.323	1-11/16	2-15/16	2-860-00P	57.60
D	0.246	1-3/8	2-1/2	2-860-00D	36.30	Q	0.332	1-11/16	3	2-860-00Q	59.85
E	0.250	1-3/8	2-1/2	2-860-00E	31.50	R	0.339	1-11/16	3	2-860-00R	60.15
F	0.257	1-7/16	2-5/8	2-860-00F	42.60	S	0.348	1-3/4	3-1/16	2-860-00S	64.95
G	0.261	1-7/16	2-5/8	2-860-00G	44.80	T	0.358	1-3/4	3-1/16	2-860-00T	71.40
H	0.266	1-1/2	2-11/16	2-860-00H	45.90	U	0.368	1-13/16	3-1/8	2-860-00U	74.70
I	0.272	1-1/2	2-11/16	2-860-00I	45.90	V	0.377	1-7/8	3-1/4	2-860-00V	75.80
J	0.277	1-1/2	2-11/16	2-860-00J	46.80	W	0.386	1-7/8	3-1/4	2-860-00W	77.40
K	0.281	1-1/2	2-11/16	2-860-00K	51.60	X	0.397	1-15/16	3-5/16	2-860-00X	84.15
L	0.290	1-9/16	2-3/4	2-860-00L	53.70	Y	0.404	1-15/16	3-5/16	2-860-00Y	92.55
M	0.295	1-9/16	2-3/4	2-860-00M	54.70	Z	0.413	2	3-3/8	2-860-00Z	94.90

Straight Flute Drills Wire Gauge 135° Point

DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
56	0.0465	1/2	1-1/2	2-861-056	\$29.00	28	0.1405	15/16	1-15/16	2-861-028	\$18.90
55	0.0520	1/2	1-1/2	2-861-055	29.00	27	0.1440	1	2-1/16	2-861-027	19.10
54	0.0550	1/2	1-1/2	2-861-054	11.65	26	0.1470	1	2-1/16	2-861-026	19.40
53	0.0595	1/2	1-1/2	2-861-053	11.65	25	0.1495	1	2-1/16	2-861-025	19.65
52	0.0635	11/16	1-11/16	2-861-052	11.85	24	0.1520	1	2-1/16	2-861-024	20.30
51	0.0670	11/16	1-11/16	2-861-051	11.70	23	0.1540	1	2-1/16	2-861-023	20.85
50	0.0700	11/16	1-11/16	2-861-050	12.00	22	0.1570	1-1/16	2-1/8	2-861-022	20.90
49	0.0730	11/16	1-11/16	2-861-049	12.10	21	0.1590	1-1/16	2-1/8	2-861-021	21.50
48	0.0760	11/16	1-11/16	2-861-048	12.40	20	0.1610	1-1/16	2-1/8	2-861-020	22.65
47	0.0785	3/4	1-3/4	2-861-047	12.40	19	0.1660	1-1/16	2-1/8	2-861-019	24.20
46	0.0810	3/4	1-3/4	2-861-046	12.40	18	0.1695	1-1/16	2-1/8	2-861-018	24.20
45	0.0820	3/4	1-3/4	2-861-045	12.90	17	0.1730	1-1/8	2-3/16	2-861-017	24.60
44	0.0860	3/4	1-3/4	2-861-044	13.05	16	0.1770	1-1/8	2-3/16	2-861-016	24.90
43	0.0890	3/4	1-3/4	2-861-043	13.20	15	0.1800	1-1/8	2-3/16	2-861-015	25.05
42	0.0935	3/4	1-3/4	2-861-042	13.35	14	0.1820	1-1/8	2-3/16	2-861-014	25.20
41	0.0960	13/16	1-13/16	2-861-041	13.65	13	0.1850	1-1/8	2-3/16	2-861-013	25.65
40	0.0980	13/16	1-13/16	2-861-040	14.00	12	0.1890	1-3/16	2-1/4	2-861-012	25.95
39	0.0995	13/16	1-13/16	2-861-039	14.00	11	0.1910	1-3/16	2-1/4	2-861-011	26.40
38	0.1015	13/16	1-13/16	2-861-038	14.55	10	0.1935	1-3/16	2-1/4	2-861-010	26.40
37	0.1040	13/16	1-13/16	2-861-037	14.70	9	0.1960	1-3/16	2-1/4	2-861-009	27.30
36	0.1065	13/16	1-13/16	2-861-036	14.90	8	0.1990	1-3/16	2-1/4	2-861-008	27.95
35	0.1100	7/8	1-7/8	2-861-035	15.15	7	0.2010	1-3/16	2-1/4	2-861-007	28.50
34	0.1110	7/8	1-7/8	2-861-034	15.60	6	0.2040	1-1/4	2-3/8	2-861-006	29.85
33	0.1130	7/8	1-7/8	2-861-033	15.60	5	0.2055	1-1/4	2-3/8	2-861-005	29.85
32	0.1160	7/8	1-7/8	2-861-032	15.75	4	0.2090	1-1/4	2-3/8	2-861-004	30.35
31	0.1200	7/8	1-7/8	2-861-031	15.90	3	0.2130	1-1/4	2-3/8	2-861-003	31.50
30	0.1285	15/16	1-15/16	2-861-030	17.80	2	0.2210	1-5/16	2-7/16	2-861-002	32.40
29	0.1360	15/16	1-15/16	2-861-029	18.00	1	0.2280	1-5/16	2-7/16	2-861-001	33.15

Stub Length (Slow Spiral) Metric Size 135° Point

DIA MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE	DIA MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP#	LIST PRICE
1.50	0.0591	1/2	1-1/2	2-862-0015	\$ 11.35	7.00	0.2756	1-1/2	2-11/16	2-862-007	\$ 43.90
2.00	0.0787	3/4	1-3/4	2-862-002	12.00	7.50	0.2953	1-9/16	2-3/4	2-862-0075	48.15
2.50	0.0984	13/16	1-13/16	2-862-0025	13.28	8.00	0.3150	1-5/8	2-13/16	2-862-008	54.60
3.00	0.1181	7/8	1-7/8	2-862-003	15.30	8.50	0.3346	1-11/16	3	2-862-0085	59.80
3.50	0.1378	15/16	1-15/16	2-862-0035	18.10	9.00	0.3543	1-3/4	3-1/16	2-862-009	69.15
4.00	0.1575	1-1/16	2-1/8	2-862-004	20.40	9.50	0.3740	1-13/16	3-1/8	2-862-0095	77.85
4.50	0.1772	1-1/8	2-3/16	2-862-0045	24.10	10.00	0.3937	1-7/8	3-1/4	2-862-010	90.90
5.00	0.1968	1-3/16	2-1/4	2-862-005	26.20	10.50	0.4134	2	3-3/8	2-860-0105	97.75
5.50	0.2165	1-1/4	2-3/8	2-862-0055	29.70	11.00	0.4331	2-1/16	3-7/16	2-862-011	112.75
6.00	0.2362	1-5/16	2-7/16	2-862-006	33.60	11.50	0.4528	2-1/8	4	2-862-0115	122.55
6.50	0.2559	1-7/16	2-5/8	2-862-0065	37.50	12.00	0.4724	2-1/8	4-5/8	2-862-012	126.75



SALIENT FEATURES

Straight Flute / Right Hand Cut

- For general purpose reaming in all materials including Steels and Alloys up to HRC50, Stainless, Aluminum, Brass, Bronze and Plastics.

Straight Flute / Right Hand Cut Fractional Size

DIA	SHANK DIA	LOC	OAL	EDP#	LIST PRICE	DIA	SHANK DIA	LOC	OAL	EDP#	LIST PRICE
3/64	3/64	3/8	1-1/2	2-837-005	\$20.95	9/32	9/32	1-1/8	3-1/4	2-837-028	\$ 62.00
1/16	1/16	3/8	1-1/2	2-837-006	22.90	19/64	19/64	1-1/8	3-1/4	2-837-030	62.00
5/64	5/64	1/2	1-3/4	2-837-007	24.70	5/16	5/16	1-1/8	3-1/4	2-837-032	58.15
3/32	3/32	1/2	2	2-837-009	23.95	21/64	21/64	1-1/4	3-1/2	2-837-035	65.95
7/64	7/64	5/8	2-1/4	2-837-010	24.40	11/32	11/32	1-1/4	3-1/2	2-837-036	64.15
1/8	1/8	5/8	2-1/4	2-837-012	25.45	23/64	23/64	1-1/4	3-1/2	2-837-037	70.30
9/64	9/64	3/4	2-1/2	2-837-013	32.70	3/8	3/8	1-1/4	3-1/2	2-837-038	68.95
5/32	5/32	3/4	2-1/2	2-837-014	32.95	25/64	25/64	1-1/4	3-1/2	2-837-040	85.45
11/64	11/64	7/8	2-3/4	2-837-015	33.15	13/32	13/32	1-1/4	3-1/2	2-837-041	82.45
3/16	3/16	7/8	2-3/4	2-837-018	38.95	27/64	27/64	1-3/8	4	2-837-042	93.80
13/64	13/64	1	3	2-837-019	38.95	7/16	7/16	1-3/8	4	2-837-043	101.30
7/32	7/32	1	3	2-837-020	38.65	29/64	29/64	1-3/8	4	2-837-045	119.65
15/64	15/64	1	3	2-837-024	43.40	15/32	15/32	1-3/8	4	2-837-046	119.95
1/4	1/4	1	3	2-837-025	39.95	31/64	31/64	1-1/2	4	2-837-048	130.87
17/64	17/64	1-1/8	3-1/4	2-837-027	56.50	1/2	1/2	1-1/2	4	2-837-050	130.87

Straight Flute / Right Hand Cut Letter Size

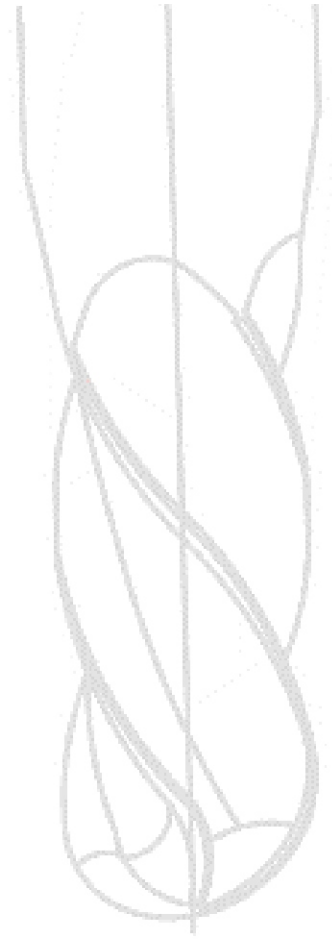
DIA	SHANK DIA	LOC	OAL	EDP#	LIST PRICE	DIA	SHANK DIA	LOC	OAL	EDP#	LIST PRICE
A	0.2350	1	3	2-838-00A	\$47.95	N	0.3020	1-1/8	3-1/4	2-838-00N	\$ 63.00
B	0.2380	1	3	2-838-00B	47.95	O	0.3160	1-1/4	3-1/2	2-838-00O	71.65
C	0.2420	1	3	2-838-00C	47.95	P	0.3230	1-1/4	3-1/2	2-838-00P	71.65
D	0.2460	1	3	2-838-00D	47.95	Q	0.3320	1-1/4	3-1/2	2-838-00Q	71.65
E	0.2500	1	3	2-838-00E	39.95	R	0.3390	1-1/4	3-1/2	2-838-00R	86.00
F	0.2570	1-1/8	3-1/4	2-838-00F	53.05	S	0.3480	1-1/4	3-1/2	2-838-00S	86.00
G	0.2610	1-1/8	3-1/4	2-838-00G	58.40	T	0.3580	1-1/4	3-1/2	2-838-00T	84.00
H	0.2660	1-1/8	3-1/4	2-838-00H	58.40	U	0.3680	1-1/4	3-1/2	2-838-00U	81.80
I	0.2720	1-1/8	3-1/4	2-838-00I	58.40	V	0.3770	1-1/4	3-1/2	2-838-00V	81.80
J	0.2770	1-1/8	3-1/4	2-838-00J	58.40	W	0.3860	1-1/4	3-1/2	2-838-00W	89.95
K	0.2810	1-1/8	3-1/4	2-838-00K	58.40	X	0.3970	1-1/4	3-1/2	2-838-00X	89.95
L	0.2900	1-1/8	3-1/4	2-838-00L	63.00	Y	0.4040	1-1/4	3-1/2	2-838-00Y	97.45
M	0.2950	1-1/8	3-1/4	2-838-00M	63.00	Z	0.4130	1-1/4	3-1/2	2-838-00Z	104.95

Straight Flute / Right Hand Cut Wire Gauge Size

SIZE	SHANK DIA	LOC	OAL	EDP#	LIST PRICE	SIZE	SHANK DIA	LOC	OAL	EDP#	LIST PRICE
60	0.0400	1/4	1-1/2	2-839-060	\$ 26.30	30	0.1285	3/4	2-1/2	2-839-030	\$ 31.00
59	0.0410	3/8	1-1/2	2-839-059	26.30	29	0.1360	3/4	2-1/2	2-839-029	35.50
58	0.0420	3/8	1-1/2	2-839-058	26.30	28	0.1405	3/4	2-1/2	2-839-028	35.30
57	0.0430	3/8	1-1/2	2-839-057	26.30	27	0.1440	3/4	2-1/2	2-839-027	35.30
56	0.0465	3/8	1-1/2	2-839-056	26.30	26	0.1470	3/4	2-1/2	2-839-026	35.30
55	0.0520	3/8	1-1/2	2-839-055	26.30	25	0.1495	3/4	2-1/2	2-839-025	35.50
54	0.0550	3/8	1-1/2	2-839-054	26.30	24	0.1520	3/4	2-1/2	2-839-024	35.50
53	0.0595	3/8	1-1/2	2-839-053	26.30	23	0.1540	3/4	2-1/2	2-839-023	35.50
52	0.0635	3/8	1-1/2	2-839-052	26.30	22	0.1570	3/4	2-1/2	2-839-022	35.50
51	0.0670	1/2	1-3/4	2-839-051	32.95	21	0.1590	3/4	2-1/2	2-839-021	35.50
50	0.0700	1/2	1-3/4	2-839-050	32.95	20	0.1610	7/8	2-3/4	2-839-020	39.95
49	0.0730	1/2	1-3/4	2-839-049	32.95	19	0.1660	7/8	2-3/4	2-839-019	39.95
48	0.0760	1/2	1-3/4	2-839-048	32.95	18	0.1695	7/8	2-3/4	2-839-018	39.95
47	0.0785	1/2	1-3/4	2-839-047	32.95	17	0.1730	7/8	2-3/4	2-839-017	39.95
46	0.0810	1/2	2	2-839-046	31.45	16	0.1770	7/8	2-3/4	2-839-016	42.00
45	0.0820	1/2	2	2-839-045	31.45	15	0.1800	7/8	2-3/4	2-839-015	42.00
44	0.0860	1/2	2	2-839-044	31.45	14	0.1820	7/8	2-3/4	2-839-014	42.00
43	0.0890	1/2	2	2-839-043	31.45	13	0.1850	7/8	2-3/4	2-839-013	42.00
42	0.0935	1/2	2	2-839-042	31.45	12	0.1890	7/8	2-3/4	2-839-012	42.00
41	0.0960	5/8	2-1/4	2-839-041	31.00	11	0.1910	1	3	2-839-011	45.00
40	0.0980	5/8	2-1/4	2-839-040	31.00	10	0.1935	1	3	2-839-010	45.00
39	0.0995	5/8	2-1/4	2-839-039	31.00	9	0.1960	1	3	2-839-009	45.00
38	0.1015	5/8	2-1/4	2-839-038	31.00	8	0.1990	1	3	2-839-008	45.00
37	0.1040	5/8	2-1/4	2-839-037	31.00	7	0.2010	1	3	2-839-007	45.00
36	0.1065	5/8	2-1/4	2-839-036	31.00	6	0.2040	1	3	2-839-006	45.00
35	0.1100	5/8	2-1/4	2-839-035	31.00	5	0.2055	1	3	2-839-005	45.00
34	0.1110	5/8	2-1/4	2-839-034	31.00	4	0.2090	1	3	2-839-004	45.00
33	0.1130	5/8	2-1/4	2-839-033	31.00	3	0.2130	1	3	2-839-003	45.00
32	0.1160	5/8	2-1/4	2-839-032	31.00	2	0.2210	1	3	2-839-002	45.00
31	0.1200	5/8	2-1/4	2-839-031	31.00	1	0.2280	1	3	2-839-001	45.00

Straight Flute / Right Hand Cut Metric Size

DIA MM	SHANK DIA	LOC	OAL	EDP#	LIST PRICE	DIA MM	SHANK DIA	LOC	OAL	EDP#	LIST PRICE
1.0	0.0394	1/4	1-1/2	2-840-001	\$24.40	7.0	.2756	1-1/8	3-1/4	2-840-007	\$ 56.95
1.5	0.0591	3/8	1-1/2	2-840-0015	24.40	7.5	.2953	1-1/8	3-1/4	2-840-0075	62.95
2.0	0.0787	1/2	2	2-840-002	26.95	8.0	.3150	1-1/8	3-1/4	2-840-008	62.95
2.5	0.0984	5/8	2-1/4	2-840-0025	26.95	8.5	.3346	1-1/4	3-1/2	2-840-0085	74.95
3.0	0.1181	5/8	2-1/4	2-840-003	29.95	9.0	.3543	1-1/4	3-1/2	2-840-009	82.45
3.5	0.1378	3/4	2-1/2	2-840-0035	37.45	9.5	.3740	1-1/4	3-1/2	2-840-0095	82.45
4.0	0.1575	3/4	2-1/2	2-840-004	37.45	10.0	.3937	1-1/4	3-1/2	2-840-010	97.15
4.5	0.1772	7/8	2-3/4	2-840-0045	37.80	10.5	.4134	1-1/4	3-1/2	2-840-0105	113.30
5.0	0.1969	1	3	2-840-005	44.95	11.0	.4331	1-3/8	4	2-840-011	113.30
5.5	0.2165	1	3	2-840-0055	44.95	11.5	.4528	1-3/8	4	2-840-1105	125.00
6.0	0.2362	1	3	2-840-006	56.95	12.0	.4724	1-1/2	4	2-840-012	137.95
6.5	0.2559	1	3	2-840-0065	56.95						



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