

# THINK PLASTIC DRILLING

## FRACTIONAL DRILLS

PART #	CED	CEL	SHK DIA	OAL
70-502	1/8 (0.125)	1 1/2	1/8	2 3/4
70-503	9/64 (0.141)	1 3/4	9/64	2 7/8
70-506	5/32 (0.156)	1 15/16	5/32	3 1/8
70-509	1 1/64 (0.172)	1 3/4	1 1/64	3 1/4
70-510	3/16 (0.188)	2 1/8	3/16	3 1/2
70-511	1 3/64 (0.203)	2 7/16	1 3/64	3 5/8
70-512	7/32 (0.219)	2 1/2	7/32	3 3/4
70-513	1 5/64 (0.234)	2 5/8	1 5/64	3 7/8
70-514	1/4 (0.250)	2 7/16	1/4	4
70-515	1 7/64 (0.266)	2 7/8	1 7/64	4 1/8
70-516	9/32 (0.281)	2 15/16	9/32	4 1/4
70-517	1 9/64 (0.297)	3 1/16	1 9/64	4 3/8
70-520	5/16 (0.313)	1 3/4	5/16	3 7/8
70-521	2 1/64 (0.328)	3 5/16	2 1/64	4 5/8
70-522	1 1/32 (0.344)	3 7/16	1 1/32	4 3/4
70-523	2 3/64 (0.359)	3 1/2	2 3/64	4 7/8
70-524	3/8 (0.375)	2 1/4	3/8	4 3/8
70-525	2 5/64 (0.391)	3 3/4	2 5/64	5 1/8
70-526	1 3/32 (0.406)	3 7/8	1 3/32	5 1/8
70-527	2 7/64 (0.422)	3 15/16	2 7/64	5 3/8
70-528	7/16 (0.438)	2 1/2	7/16	4 3/4
70-529	2 9/64 (0.453)	4 3/16	2 9/64	5 5/8
70-530	1 5/32 (0.469)	4 5/16	1 5/32	5 3/4
70-531	3 1/64 (0.484)	4 3/8	3 1/64	5 7/8
70-532	1/2 (0.500)	2 5/8	1/2	5 1/8
70-533	3 3/64 (0.516)	3 1/8	1/2	6
70-534	1 7/32 (0.531)	3 1/8	1/2	6
70-535	3 5/64 (0.547)	3 1/8	1/2	6
70-536	9/16 (0.563)	3 1/8	1/2	6
70-537	3 7/64 (0.578)	3 1/8	1/2	6
70-538	1 9/32 (0.594)	3 1/8	1/2	6
70-539	3 9/64 (0.609)	3 1/8	1/2	6
70-540	5/8 (0.625)	3 1/8	1/2	6
70-541	4 1/64 (0.641)	3 1/8	1/2	6
70-542	2 1/32 (0.656)	3 1/8	1/2	6
70-543	4 3/64 (0.672)	3 1/8	1/2	6
70-544	1 1/16 (0.688)	3 1/8	1/2	6
70-545	4 5/64 (0.703)	3 1/8	1/2	6
70-546	2 3/32 (0.719)	3 1/8	1/2	6
70-547	4 7/64 (0.734)	3 1/8	1/2	6
70-548	3/4 (0.750)	3 1/8	1/2	6
70-549	4 9/64 (0.766)	3 1/8	1/2	6
70-550	2 5/32 (0.781)	3 1/8	1/2	6
70-551	5 1/64 (0.797)	3 1/8	1/2	6
70-552	1 3/16 (0.813)	3 1/8	1/2	6
70-553	5 3/64 (0.828)	3 1/8	1/2	6
70-554	2 7/32 (0.844)	3 1/8	1/2	6
70-555	5 5/64 (0.859)	3 1/8	1/2	6
70-556	7/8 (0.875)	3 1/8	1/2	6
70-557	5 7/64 (0.891)	3 1/8	1/2	6
70-558	2 9/32 (0.906)	3 1/8	1/2	6
70-559	5 9/64 (0.922)	3 1/8	1/2	6
70-560	1 5/16 (0.938)	3 1/8	1/2	6
70-561	6 1/64 (0.953)	3 1/8	1/2	6
70-562	3 1/32 (0.969)	3 1/8	1/2	6
70-563	6 3/64 (0.984)	3 1/8	1/2	6

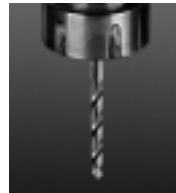
## HSS PLASTIC DRILLS

Onsrud's high-speed-steel drills are designed to produce holes in hard and soft plastic while eliminating edge chipping and chip wrapping. The point is specially ground at a 60° angle for gradual penetration into the material while eliminating cracking and chipping. The 0° rake angle on the cutting edge eliminates grabbing as the drill exits through the material producing a clean hole.

Custom sizes can be made upon request.



- NO Wrapping
- NO Cleaning
- NO Melting
- NO Surface Marring
- NO Interrupted Operation



**FASTER,  
CLEANER  
HOLES**

# THINK ONSRUD

03/05



Leitz Metalworking Technology Group

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# PLASTIC DRILLS WITH SPECIAL POINT

NO Interrupted Operation  
 NO Surface Marring  
 NO Wrapping  
 NO Cleaning  
 NO Melting

**FASTER  
 CLEANER  
 HOLES**

## LETTER DRILLS

PART #	CED	CEL	SHK DIA	OAL
70-600	A (0.234)	2 <sup>5</sup> / <sub>8</sub>	0.234	3 <sup>7</sup> / <sub>8</sub>
70-601	B (0.238)	2 <sup>3</sup> / <sub>4</sub>	0.238	4
70-602	C (0.242)	2 <sup>3</sup> / <sub>4</sub>	0.242	4
70-603	D (0.246)	2 <sup>3</sup> / <sub>4</sub>	0.246	4
70-604	E (0.250)	2 <sup>3</sup> / <sub>4</sub>	0.250	4
70-605	F (0.257)	2 <sup>7</sup> / <sub>8</sub>	0.257	4 <sup>1</sup> / <sub>8</sub>
70-606	G (0.261)	2 <sup>7</sup> / <sub>8</sub>	0.261	4 <sup>1</sup> / <sub>8</sub>
70-607	H (0.266)	2 <sup>7</sup> / <sub>8</sub>	0.266	4 <sup>1</sup> / <sub>8</sub>
70-608	I (0.272)	2 <sup>7</sup> / <sub>8</sub>	0.272	4 <sup>1</sup> / <sub>8</sub>
70-609	J (0.277)	2 <sup>7</sup> / <sub>8</sub>	0.277	4 <sup>1</sup> / <sub>8</sub>
70-610	K (0.281)	2 <sup>15</sup> / <sub>16</sub>	0.281	4 <sup>1</sup> / <sub>4</sub>
70-611	L (0.291)	2 <sup>15</sup> / <sub>16</sub>	0.291	4 <sup>1</sup> / <sub>4</sub>
70-612	M (0.295)	3 <sup>1</sup> / <sub>16</sub>	0.295	4 <sup>3</sup> / <sub>8</sub>
70-613	N (0.302)	3 <sup>1</sup> / <sub>16</sub>	0.302	4 <sup>3</sup> / <sub>8</sub>
70-614	O (0.316)	3 <sup>3</sup> / <sub>16</sub>	0.316	4 <sup>1</sup> / <sub>2</sub>
70-615	P (0.323)	3 <sup>5</sup> / <sub>16</sub>	0.323	4 <sup>5</sup> / <sub>8</sub>
70-616	Q (0.332)	3 <sup>7</sup> / <sub>16</sub>	0.332	4 <sup>3</sup> / <sub>4</sub>
70-617	R (0.339)	3 <sup>7</sup> / <sub>16</sub>	0.339	4 <sup>3</sup> / <sub>4</sub>
70-618	S (0.348)	3 <sup>1</sup> / <sub>2</sub>	0.348	4 <sup>7</sup> / <sub>8</sub>
70-619	T (0.358)	3 <sup>1</sup> / <sub>2</sub>	0.358	4 <sup>7</sup> / <sub>8</sub>
70-620	U (0.368)	3 <sup>5</sup> / <sub>8</sub>	0.368	5
70-621	V (0.377)	3 <sup>5</sup> / <sub>8</sub>	0.377	5
70-622	W (0.386)	3 <sup>3</sup> / <sub>4</sub>	0.386	5 <sup>1</sup> / <sub>8</sub>
70-623	X (0.397)	3 <sup>3</sup> / <sub>4</sub>	0.397	5 <sup>1</sup> / <sub>8</sub>
70-624	Y (0.404)	3 <sup>7</sup> / <sub>8</sub>	0.404	5 <sup>1</sup> / <sub>4</sub>
70-625	Z (0.413)	3 <sup>15</sup> / <sub>16</sub>	0.413	5 <sup>1</sup> / <sub>4</sub>

## WIRE DRILLS

PART #	CED	CEL	SHK DIA	OAL
70-630	1 (0.228)	2 <sup>5</sup> / <sub>8</sub>	0.228	3 <sup>7</sup> / <sub>8</sub>
70-631	2 (0.221)	2 <sup>5</sup> / <sub>8</sub>	0.221	3 <sup>7</sup> / <sub>8</sub>
70-632	3 (0.213)	2 <sup>1</sup> / <sub>2</sub>	0.213	3 <sup>3</sup> / <sub>4</sub>
70-633	4 (0.209)	2 <sup>1</sup> / <sub>2</sub>	0.209	3 <sup>3</sup> / <sub>4</sub>
70-634	5 (0.206)	2 <sup>1</sup> / <sub>2</sub>	0.206	3 <sup>3</sup> / <sub>4</sub>
70-635	6 (0.204)	2 <sup>1</sup> / <sub>2</sub>	0.204	3 <sup>3</sup> / <sub>4</sub>
70-636	7 (0.201)	2 <sup>7</sup> / <sub>16</sub>	0.201	3 <sup>5</sup> / <sub>8</sub>
70-637	8 (0.199)	2 <sup>7</sup> / <sub>16</sub>	0.199	3 <sup>5</sup> / <sub>8</sub>
70-638	9 (0.196)	2 <sup>7</sup> / <sub>16</sub>	0.196	3 <sup>5</sup> / <sub>8</sub>
70-639	10 (0.194)	2 <sup>7</sup> / <sub>16</sub>	0.194	3 <sup>5</sup> / <sub>8</sub>
70-640	11 (0.191)	2 <sup>5</sup> / <sub>16</sub>	0.191	3 <sup>1</sup> / <sub>2</sub>
70-641	12 (0.189)	2 <sup>5</sup> / <sub>16</sub>	0.189	3 <sup>1</sup> / <sub>2</sub>
70-642	13 (0.185)	2 <sup>5</sup> / <sub>16</sub>	0.185	3 <sup>1</sup> / <sub>2</sub>
70-643	14 (0.182)	2 <sup>3</sup> / <sub>16</sub>	0.182	3 <sup>3</sup> / <sub>8</sub>
70-644	15 (0.180)	2 <sup>3</sup> / <sub>16</sub>	0.180	3 <sup>3</sup> / <sub>8</sub>
70-645	16 (0.177)	2 <sup>3</sup> / <sub>16</sub>	0.177	3 <sup>3</sup> / <sub>8</sub>
70-646	17 (0.173)	2 <sup>3</sup> / <sub>16</sub>	0.173	3 <sup>3</sup> / <sub>8</sub>
70-647	18 (0.170)	2 <sup>3</sup> / <sub>8</sub>	0.170	3 <sup>1</sup> / <sub>4</sub>
70-648	19 (0.166)	2 <sup>1</sup> / <sub>8</sub>	0.166	3 <sup>1</sup> / <sub>4</sub>
70-649	20 (0.161)	2 <sup>1</sup> / <sub>8</sub>	0.161	3 <sup>1</sup> / <sub>4</sub>
70-650	21 (0.159)	2 <sup>1</sup> / <sub>8</sub>	0.159	3 <sup>1</sup> / <sub>4</sub>
70-651	22 (0.157)	2	0.157	3 <sup>1</sup> / <sub>8</sub>
70-652	23 (0.154)	2	0.154	3 <sup>1</sup> / <sub>8</sub>
70-653	24 (0.152)	2	0.152	3 <sup>1</sup> / <sub>8</sub>
70-654	25 (0.150)	1 <sup>7</sup> / <sub>8</sub>	0.150	3
70-655	26 (0.147)	1 <sup>7</sup> / <sub>8</sub>	0.147	3
70-656	27 (0.144)	1 <sup>7</sup> / <sub>8</sub>	0.144	3
70-657	28 (0.141)	1 <sup>3</sup> / <sub>4</sub>	0.141	2 <sup>7</sup> / <sub>8</sub>
70-658	29 (0.136)	1 <sup>3</sup> / <sub>4</sub>	0.136	2 <sup>7</sup> / <sub>8</sub>
70-659	30 (0.129)	1 <sup>5</sup> / <sub>8</sub>	0.129	2 <sup>3</sup> / <sub>4</sub>
70-660	31 (0.120)	1 <sup>5</sup> / <sub>8</sub>	0.120	2 <sup>3</sup> / <sub>4</sub>

## METRIC DRILLS

PART #	CED	CEL	SHK DIA	OAL
70-714	3.00 (0.118)	41	3.00	70
70-715	3.50 (0.138)	44	3.50	73
70-716	4.00 (0.157)	54	4.00	83
70-717	4.50 (0.177)	56	4.50	86
70-718	5.00 (0.197)	62	5.00	92
70-719	5.50 (0.217)	64	5.50	95
70-720	6.00 (0.236)	70	6.00	102
70-721	6.50 (0.256)	73	6.50	105
70-722	7.00 (0.276)	73	7.00	105
70-723	7.50 (0.295)	78	7.50	111
70-724	8.00 (0.315)	81	8.00	114
70-725	8.50 (0.335)	87	8.50	121
70-726	9.00 (0.354)	89	9.00	124
70-727	9.50 (0.374)	92	9.50	127
70-728	10.00 (0.394)	95	10.00	130
70-729	10.50 (0.413)	98	10.50	133
70-730	11.00 (0.433)	103	11.00	140
70-731	11.50 (0.453)	106	11.50	143
70-732	12.00 (0.472)	111	12.00	149
70-733	12.50 (0.492)	114	12.50	152
70-734	13.00 (0.512)	114	13.00	152
70-735	13.50 (0.531)	122	13.50	168
70-736	14.00 (0.551)	122	14.00	168
70-737	14.50 (0.571)	122	14.50	168
70-738	15.00 (0.591)	132	15.00	181
70-739	15.50 (0.610)	132	15.50	181
70-740	16.00 (0.630)	132	16.00	181
70-741	16.50 (0.650)	132	16.50	181
70-742	17.00 (0.669)	143	17.00	194
70-743	17.50 (0.689)	143	17.50	194

# THINK COMPOSITE DRILLING



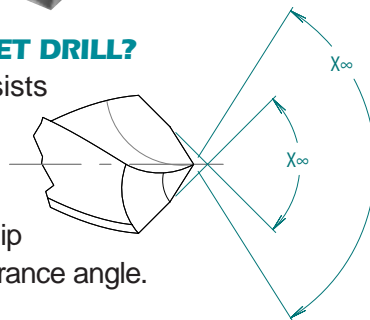
## SOLID CARBIDE 8 FACET DRILLS

Onsrud's drills for composite materials incorporate an 8-facet point design that reduces cutting forces and eliminates delamination when exiting the material. The solid carbide drills are wear-resistant and can be coated for improved tool life. The drills can be used on carbon fiber and other composite materials where clean, delamination-free holes are desired.

Custom sizes can be made upon request.

### WHAT IS A 8 FACET DRILL?

An 8 facet drill consists of 4 cutting edges with 2 facets per cutting edge. These facets consist of the lip relief and the lip clearance angle.



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### FRACTIONAL DRILLS

PART #	CED	CEL	SHK DIA	OAL
67-807	1/8 (0.125)	1 1/4	0.125	2 1/4
67-808	9/64 (0.140)	1 3/8	0.140	2 1/2
67-809	5/32 (0.156)	1 3/8	0.156	2 1/2
67-810	11/64 (0.172)	1 5/8	0.172	2 3/4
67-811	3/16 (0.188)	1 5/8	0.188	2 3/4
67-812	13/64 (0.203)	1 3/4	0.203	3
67-813	7/32 (0.219)	1 3/4	0.219	3
67-814	15/64 (0.234)	2	0.234	3 1/4
67-815	1/4 (0.250)	2	0.250	3 1/4
67-816	17/64 (0.266)	2 1/8	0.266	3 1/2
67-817	9/32 (0.281)	2 1/8	0.281	3 1/2
67-818	19/64 (0.297)	2 3/8	0.297	3 3/4
67-819	5/16 (0.313)	2 3/8	0.313	3 3/4
67-820	21/64 (0.328)	2 1/2	0.328	4
67-821	11/32 (0.344)	2 1/2	0.344	4
67-822	23/64 (0.359)	2 1/2	0.359	4
67-823	3/8 (0.375)	2 3/4	0.375	4 1/4
67-824	25/64 (0.391)	2 7/8	0.391	4 1/2
67-825	13/32 (0.406)	2 7/8	0.406	4 1/2
67-826	27/64 (0.422)	2 7/8	0.422	4 1/2
67-827	7/16 (0.438)	2 7/8	0.438	4 1/2
67-828	29/64 (0.453)	3	0.453	4 3/4
67-829	15/32 (0.469)	3	0.469	4 3/4
67-830	31/64 (0.484)	3	0.484	4 3/4
67-831	1/2 (0.500)	3	0.500	4 3/4

### LETTER DRILLS

PART #	CED	CEL	SHK DIA	OAL
67-850	A (0.234)	2	0.234	3 1/4
67-851	B (0.238)	2	0.238	3 1/4
67-852	C (0.242)	2	0.242	3 1/4
67-853	D (0.246)	2	0.246	3 1/4
67-854	E (0.250)	2	0.250	3 1/4
67-855	F (0.257)	2	0.257	3 1/4
67-856	G (0.261)	2 1/8	0.261	3 1/2
67-857	H (0.266)	2 1/8	0.266	3 1/2
67-858	I (0.272)	2 1/8	0.272	3 1/2
67-859	J (0.277)	2 1/8	0.277	3 1/2
67-860	K (0.281)	2 1/8	0.281	3 1/2
67-861	L (0.291)	2 1/8	0.291	3 1/2
67-862	M (0.295)	2 3/8	0.295	3 3/4
67-863	N (0.302)	2 3/8	0.302	3 3/4
67-864	O (0.316)	2 3/8	0.316	3 3/4
67-865	P (0.323)	2 3/8	0.323	3 3/4
67-866	Q (0.332)	2 1/2	0.332	4
67-867	R (0.339)	2 1/2	0.339	4
67-868	S (0.348)	2 1/2	0.348	4
67-869	T (0.358)	2 1/2	0.358	4
67-870	U (0.368)	2 3/4	0.368	4 1/4
67-871	V (0.377)	2 3/4	0.377	4 1/4
67-872	W (0.386)	2 7/8	0.386	4 1/2
67-873	X (0.397)	2 7/8	0.397	4 1/2
67-874	Y (0.404)	2 7/8	0.404	4 1/2
67-875	Z (0.413)	2 7/8	0.413	4 1/2

# UNIQUE TOOLS • UNIQUE SOLUTIONS

**CLEAN  
HOLES IN  
COMPOSITE  
SHEETS**

## NUMBER DRILLS

PART #	CED	CEL	SHK DIA	OAL
67-876	1 (0.228)	1 <sup>3</sup> / <sub>4</sub>	0.228	3
67-877	2 (0.221)	1 <sup>3</sup> / <sub>4</sub>	0.221	3
67-878	3 (0.213)	1 <sup>3</sup> / <sub>4</sub>	0.213	3
67-879	4 (0.209)	1 <sup>3</sup> / <sub>4</sub>	0.209	3
67-880	5 (0.206)	1 <sup>3</sup> / <sub>4</sub>	0.206	3
67-881	6 (0.204)	1 <sup>3</sup> / <sub>4</sub>	0.204	3
67-882	7 (0.201)	1 <sup>3</sup> / <sub>4</sub>	0.201	3
67-883	8 (0.199)	1 <sup>3</sup> / <sub>4</sub>	0.199	3
67-884	9 (0.196)	1 <sup>3</sup> / <sub>4</sub>	0.196	3
67-885	10 (0.194)	1 <sup>5</sup> / <sub>8</sub>	0.194	2 <sup>3</sup> / <sub>4</sub>
67-886	11 (0.191)	1 <sup>5</sup> / <sub>8</sub>	0.191	2 <sup>3</sup> / <sub>4</sub>
67-887	12 (0.189)	1 <sup>5</sup> / <sub>8</sub>	0.189	2 <sup>3</sup> / <sub>4</sub>
67-888	13 (0.185)	1 <sup>5</sup> / <sub>8</sub>	0.185	2 <sup>3</sup> / <sub>4</sub>
67-889	14 (0.182)	1 <sup>5</sup> / <sub>8</sub>	0.182	2 <sup>3</sup> / <sub>4</sub>
67-890	15 (0.180)	1 <sup>5</sup> / <sub>8</sub>	0.180	2 <sup>3</sup> / <sub>4</sub>
67-891	16 (0.177)	1 <sup>5</sup> / <sub>8</sub>	0.177	2 <sup>3</sup> / <sub>4</sub>
67-892	17 (0.173)	1 <sup>5</sup> / <sub>8</sub>	0.173	2 <sup>3</sup> / <sub>4</sub>
67-893	18 (0.170)	1 <sup>5</sup> / <sub>8</sub>	0.170	2 <sup>3</sup> / <sub>4</sub>
67-894	19 (0.166)	1 <sup>5</sup> / <sub>8</sub>	0.166	2 <sup>3</sup> / <sub>4</sub>
67-895	20 (0.161)	1 <sup>3</sup> / <sub>8</sub>	0.161	2 <sup>1</sup> / <sub>2</sub>
67-896	21 (0.159)	1 <sup>3</sup> / <sub>8</sub>	0.159	2 <sup>1</sup> / <sub>2</sub>
67-897	22 (0.157)	1 <sup>3</sup> / <sub>8</sub>	0.157	2 <sup>1</sup> / <sub>2</sub>
67-898	23 (0.154)	1 <sup>3</sup> / <sub>8</sub>	0.154	2 <sup>1</sup> / <sub>2</sub>
67-899	24 (0.152)	1 <sup>3</sup> / <sub>8</sub>	0.152	2 <sup>1</sup> / <sub>2</sub>
67-900	25 (0.150)	1 <sup>3</sup> / <sub>8</sub>	0.150	2 <sup>1</sup> / <sub>2</sub>
67-901	26 (0.147)	1 <sup>3</sup> / <sub>8</sub>	0.147	2 <sup>1</sup> / <sub>2</sub>
67-902	27 (0.144)	1 <sup>3</sup> / <sub>8</sub>	0.144	2 <sup>1</sup> / <sub>2</sub>
67-903	28 (0.141)	1 <sup>3</sup> / <sub>8</sub>	0.141	2 <sup>1</sup> / <sub>2</sub>
67-904	29 (0.136)	1 <sup>3</sup> / <sub>8</sub>	0.136	2 <sup>1</sup> / <sub>2</sub>
67-905	30 (0.129)	1 <sup>1</sup> / <sub>4</sub>	0.129	2 <sup>1</sup> / <sub>4</sub>
67-906	31 (0.120)	1 <sup>1</sup> / <sub>4</sub>	0.120	2 <sup>1</sup> / <sub>4</sub>

## METRIC DRILLS

PART #	CED	CEL	SHK DIA	OAL
67-961	3.00 (0.118)	1 <sup>1</sup> / <sub>4</sub>	3.00	2 <sup>1</sup> / <sub>4</sub>
67-962	3.50 (0.138)	1 <sup>3</sup> / <sub>8</sub>	3.50	2 <sup>1</sup> / <sub>2</sub>
67-963	4.00 (0.157)	1 <sup>3</sup> / <sub>8</sub>	4.00	2 <sup>1</sup> / <sub>2</sub>
67-964	4.50 (0.177)	1 <sup>5</sup> / <sub>8</sub>	4.50	2 <sup>3</sup> / <sub>4</sub>
67-965	5.00 (0.197)	1 <sup>3</sup> / <sub>4</sub>	5.00	3
67-966	5.50 (0.217)	1 <sup>3</sup> / <sub>4</sub>	5.50	3
67-967	6.00 (0.236)	2	6.00	3 <sup>1</sup> / <sub>4</sub>
67-968	6.50 (0.256)	2	6.50	3 <sup>1</sup> / <sub>4</sub>
67-969	7.00 (0.276)	2 <sup>1</sup> / <sub>8</sub>	7.00	3 <sup>1</sup> / <sub>2</sub>
67-970	7.50 (0.295)	2 <sup>3</sup> / <sub>8</sub>	7.50	3 <sup>3</sup> / <sub>4</sub>
67-971	8.00 (0.315)	2 <sup>3</sup> / <sub>8</sub>	8.00	3 <sup>3</sup> / <sub>4</sub>
67-972	8.50 (0.335)	2 <sup>1</sup> / <sub>2</sub>	8.50	4
67-973	9.00 (0.354)	2 <sup>1</sup> / <sub>2</sub>	9.00	4
67-974	9.50 (0.374)	2 <sup>3</sup> / <sub>4</sub>	9.50	4 <sup>1</sup> / <sub>4</sub>
67-975	10.00 (0.394)	2 <sup>7</sup> / <sub>8</sub>	10.00	4 <sup>1</sup> / <sub>2</sub>
67-976	10.50 (0.413)	2 <sup>7</sup> / <sub>8</sub>	10.50	4 <sup>1</sup> / <sub>2</sub>
67-977	11.00 (0.433)	2 <sup>7</sup> / <sub>8</sub>	11.00	4 <sup>1</sup> / <sub>2</sub>
67-978	11.50 (0.453)	3	11.50	4 <sup>3</sup> / <sub>4</sub>
67-979	12.00 (0.472)	3	12.00	4 <sup>3</sup> / <sub>4</sub>

**ELIMINATE  
DELAMINATION  
PROBLEMS**

**CUSTOM SIZES  
AND LENGTHS  
UPON REQUEST**

## 68-900 | PCD 8 Facet Drills

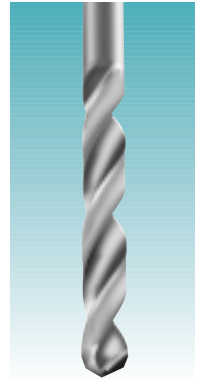
### NEW

The PCD 8 facet drill works well in composite material where long tool life and a delamination free hole is required. The drill diameters are oversized allowing for aircraft fasteners to extend through the holes.

- **Usage** Composites
- **Material** **CP** See Selection Guide - pg. 2 - 12

PART #	CED	CEL	SHK DIA	OAL
68-902	0.100	1	¼	3
68-904	0.129	1	¼	3
68-908	0.147	1	¼	3
68-910	0.192	1	¼	3

PART #	CED	CEL	SHK DIA	OAL
68-914	0.251	1	¼	3
68-918	0.313	1	⅝	3
68-922	0.376	1	¾	3
68-926	0.502	1	½	3



## 70-100 | Carbide Tipped Saw and Arbor

Designed to trim and groove both hard and soft plastics. These saws run in conjunction with the saw arbors. Saws are reversible for right or left hand rotation cutting.

- **Usage** Hard and soft plastic
- **Material** **SP HP** See Selection Guide - pg. 2 - 12

### SOFT PLASTIC - SLOW FEED

PART #	CED	TEETH	RAKE	KERF	GRIND
70-100	2	10	0°	.095	TCG
70-102	2½	10	0°	.095	TCG
70-104	3	10	0°	.095	TCG
70-108	4	10	0°	.095	TCG

### HARD PLASTIC - FAST FEED

PART #	CED	TEETH	RAKE	KERF	GRIND
70-160	2	16	-5°	.095	TCG
70-162	2½	20	-5°	.095	TCG
70-164	3	20	-5°	.095	TCG
70-166	3½	20	-5°	.095	TCG
70-168	4	20	-5°	.095	TCG

TCG = Triple Chip Grind

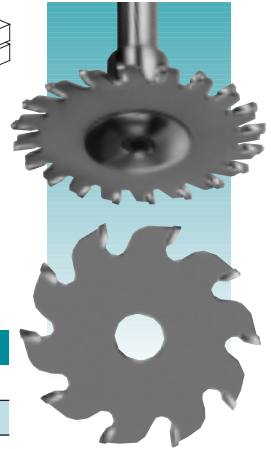
### SOFT PLASTIC FAST FEED

PART #	CED	TEETH	RAKE	KERF	GRIND
70-120	2	16	0°	.095	TCG
70-122	2½	20	0°	.095	TCG
70-124	3	20	0°	.095	TCG
70-126	3½	20	0°	.095	TCG
70-128	4	20	0°	.095	TCG

**SAW ARBOR** - These saw arbors are designed to hold the carbide tipped saws.

PART #	SHK DIA	OAL
70-180	½	3¼
70-181	½	4½

\*SEE FEED & SPEED CHART ON PAGE 66.



## 70-200 | Solid Carbide Saw Flush Mount

These small diameter solid carbide arbor mounted saws are designed for trimming and slotting plastics. Saws are permanently attached to arbors and are not reversible.

- **Usage** Hard and soft plastic
- **Material** **SP HP** See Selection Guide - pg. 2 - 12

PART #	CED	COLLAR	SHK DIA	KERF	OAL	ROTATION
70-204	1	⅞	½	.062	4	Right Hand
70-224	1¼	⅝	½	.062	4	Right Hand

\*SEE FEED & SPEED CHART ON PAGE 66.

