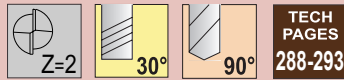


TOLERANCES	
d_1	+0.00" -0.002" (+.000 / -.050mm)
d_2	h6



Drill/End Mill

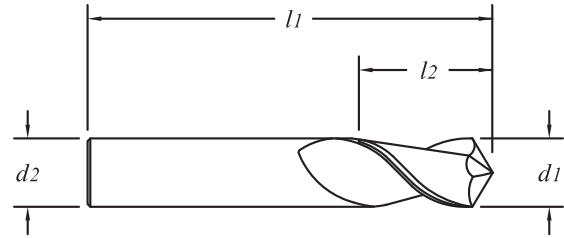
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

Point tolerance $\pm 0^\circ 30'$



MATERIAL HARDNESS (RC)

70

35

0

EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric								
57200	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	10.65	10.19	9.72	9.26
57210	.1875	3/16"	4.763	3/16"	2"	5/8"	14.03	13.42	12.81	12.20
57220	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	17.42	16.67	15.91	15.15
57230	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	22.85	21.86	20.86	19.87
57240	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	27.96	26.74	25.53	24.31
57250	.4375	7/16"	11.113	7/16"	2-3/4"	1"	34.41	32.91	31.42	29.92
57260	.5000	1/2"	12.700	1/2"	3"	1"	52.05	49.79	47.52	45.26
57270	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	84.18	80.52	76.86	73.20
57280	.7500	3/4"	19.050	3/4"	4"	1-1/2"	123.88	118.49	113.11	107.72

TOLERANCES

d_1	+0.000° -0.002° (+.000 / -.050mm)
d_2	h6



TECH
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Drill/End Mill

TiALN Coating

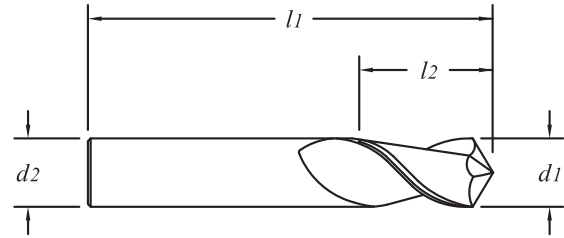
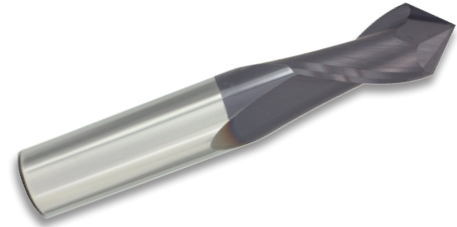
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

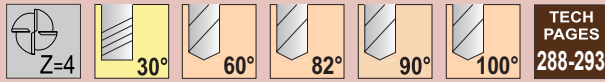
Point tolerance $\pm 0^{\circ}30'$



EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric								
57207	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	13.11	12.54	11.97	11.40
57217	.1875	3/16"	4.763	3/16"	2"	5/8"	16.49	15.77	15.06	14.34
57227	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	22.49	21.52	20.54	19.56
57237	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	30.49	29.16	27.84	26.51
57247	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	35.60	34.06	32.51	30.96
57257	.4375	7/16"	11.113	7/16"	2-3/4"	1"	43.06	41.18	39.31	37.44
57267	.5000	1/2"	12.700	1/2"	3"	1"	60.73	58.09	55.45	52.81
57277	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	96.69	92.49	88.28	84.08
57287	.7500	3/4"	19.050	3/4"	4"	1-1/2"	138.66	132.63	126.60	120.57



TOLERANCES	
d_1	+0.000° -0.002° (+.000 / -.050mm)
d_2	h6



Drill/End Mill

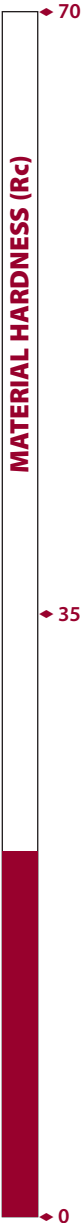
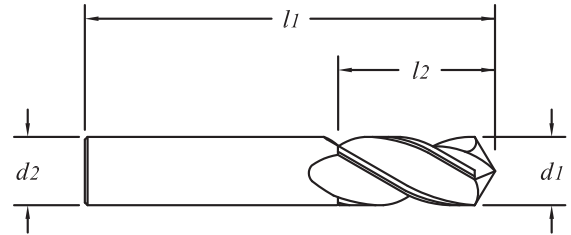
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

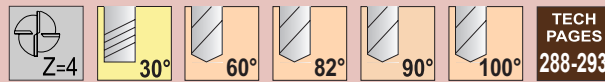
Point tolerance ±0°30'



60° EDP#	82° EDP#	90° EDP#	100° EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
				Decimal	Metric								
-	57344	58198	57384	.1181	3.000	3.0	38	12	11.19	10.70	10.22	9.73	
-	57346	58200	57386	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	10.65	10.19	9.72	9.26
-	57348	58202	57388	.1575		4.000	4.0	50	14	14.73	14.09	13.45	12.81
-	57350	58210	57390	.1875	3/16"	4.763	3/16"	2"	5/8"	14.03	13.42	12.81	12.20
-	57352	58212	57392	.1969		5.000	5.0	65	16	17.86	17.08	16.31	15.53
57314	57354	58214	57394	.2362		6.000	6.0	65	19	18.31	17.51	16.72	15.92
57316	57356	58220	57396	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	17.42	16.67	15.91	15.15
57318	57358	58230	57398	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	22.85	21.86	20.86	19.87
57320	-	58232	57400	.3150		8.000	8.0	65	22	24.04	22.99	21.95	20.90
57322	57362	58240	57402	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	27.96	26.74	25.53	24.31
57324	57364	58242	57404	.3937		10.000	10.0	70	25	34.33	32.84	31.34	29.85
57326	57366	58250	57406	.4375	7/16"	11.113	7/16"	2-3/4"	1"	34.41	32.91	31.42	29.92
57328	-	58252	57408	.4724		12.000	12.0	75	25	54.66	52.28	49.91	47.53
57330	57370	58260	57410	.5000	1/2"	12.700	1/2"	3"	1"	52.05	49.79	47.52	45.26
57332	57372	58270	57412	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	84.18	80.52	76.86	73.20
57334	-	58272	57414	.6299		16.000	16.0	88	32	88.37	84.52	80.68	76.84
57336	57376	58280	57416	.7500	3/4"	19.050	3/4"	4"	1-1/2"	123.88	118.49	113.11	107.72
57338	57378	58282	57418	.7874		20.000	20.0	100	38	174.40	166.82	159.23	151.65

TOLERANCES

$d1$	+0.000° -0.002" (+.000/-0.050mm)
$d2$	h6



Drill/End Mill

TiAlN Coating

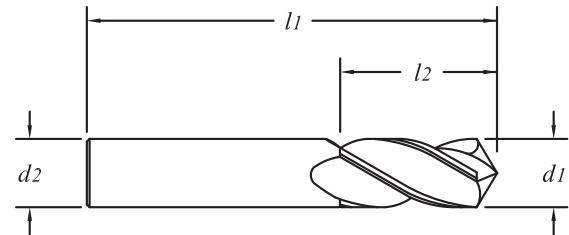
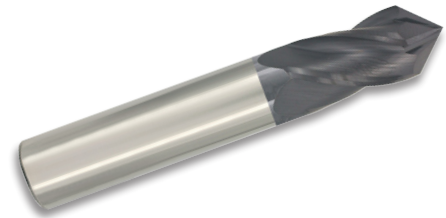
Solid submicron grain carbide

Included angle to a point - center cutting

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Extremely versatile

Point tolerance ±0°30'



60° EDP#	82° EDP#	90° EDP#	100° EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
				Decimal	Metric								
-	58344	58205	58384	.1181	3.000	3.0	38	12	13.65	13.06	12.46	11.87	
-	58346	58207	-	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	13.11	12.54	11.97	11.40
-	58348	58209	58388	.1575	4.000	4.0	50	14	17.19	16.45	15.70	14.95	
-	58350	58217	58390	.1875	3/16"	4.763	3/16"	2"	5/8"	16.49	15.77	15.06	14.34
-	58352	58219	58392	.1969	5.000	5.0	65	16	22.94	21.95	20.95	19.95	
58314	58354	58221	58394	.2362	6.000	6.0	65	19	23.39	22.37	21.36	20.34	
58316	58356	58227	58396	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	22.49	21.52	20.54	19.56
58318	58358	58237	58398	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	30.49	29.16	27.84	26.51
58320	58360	58239	58400	.3150	8.000	8.0	65	22	31.63	30.25	28.88	27.50	
58322	58362	58247	58402	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	35.60	34.06	32.51	30.96
58324	58364	58249	58404	.3937	10.000	10.0	70	25	42.99	41.12	39.25	37.38	
58326	58366	58257	58406	.4375	7/16"	11.113	7/16"	2-3/4"	1"	43.06	41.18	39.31	37.44
58328	-	58259	58408	.4724	12.000	12.0	75	25	63.31	60.56	57.80	55.05	
58330	58370	58267	58410	.5000	1/2"	12.700	1/2"	3"	1"	60.73	58.09	55.45	52.81
58332	58372	58277	58412	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	96.69	92.49	88.28	84.08
58334	58374	58279	58414	.6299	16.000	16.0	88	32	100.89	96.50	92.12	87.73	
58336	58376	58287	58416	.7500	3/4"	19.050	3/4"	4"	1-1/2"	138.66	132.63	126.60	120.57
58338	58378	58289	58418	.7874	20.000	20.0	100	38	196.24	187.70	179.17	170.64	

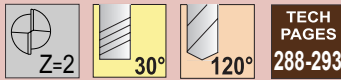
MATERIAL HARDNESS (Rc)

70

35

0

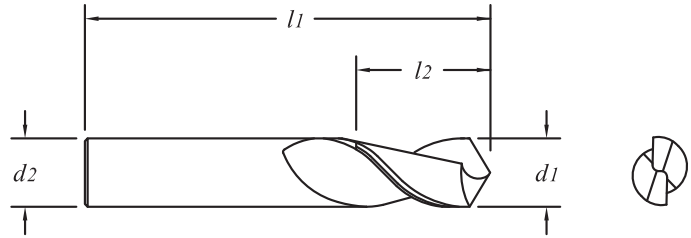
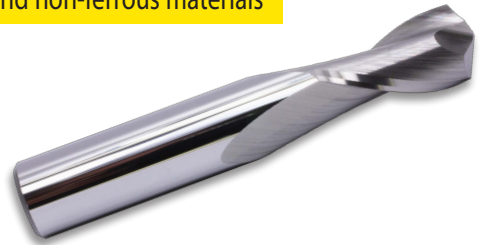
TOLERANCES	
d_1	$+0.00^\circ -0.002^\circ (+.000 / -.050\text{mm})$
d_2	$h6$



Recommended for drilling and milling in mild steels and non-ferrous materials

Drill/End Mill

- Solid submicron grain carbide
- Four-facet drill point geometry
- Extremely versatile
- Point tolerance $\pm 1^\circ$



MATERIAL HARDNESS (RC)

70

35

0

EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100
	Decimal	Metric							
57420	.1181	3.000	3.0	38	12	11.19	10.70	10.22	9.73
57422	.1250	1/8"	3.175	1/8"	1-1/2"	10.65	10.19	9.72	9.26
57424	.1575	4.000	4.0	50	14	14.73	14.09	13.45	12.81
57426	.1875	3/16"	4.762	3/16"	2"	14.03	13.42	12.81	12.20
57430	.2362	6.000	6.0	65	19	18.31	17.51	16.72	15.92
57432	.2500	1/4"	6.350	1/4"	2-1/2"	17.42	16.67	15.91	15.15
57434	.3125	5/16"	7.937	5/16"	2-1/2"	22.85	21.86	20.86	19.87
57438	.3750	3/8"	9.525	3/8"	2-1/2"	27.96	26.74	25.53	24.31
57440	.3937	10.000	10.0	70	25	34.33	32.84	31.34	29.85
57442	.4375	7/16"	11.112	7/16"	2-3/4"	34.41	32.91	31.42	29.92
57444	.4724	12.000	12.0	75	25	54.66	52.28	49.91	47.53
57446	.5000	1/2"	12.700	1/2"	3"	52.05	49.79	47.52	45.26
57448	.6250	5/8"	15.875	5/8"	3-1/2"	84.18	80.52	76.86	73.20
57450	.6299	16.000	16.0	88	32	88.37	84.52	80.68	76.84
57452	.7500	3/4"	19.050	3/4"	4"	123.88	118.49	113.11	107.72

TOLERANCES

d_1	+0.000° -0.002" (+.000 / -.050mm)
d_2	h6



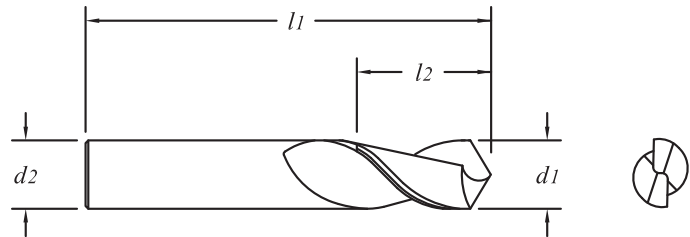
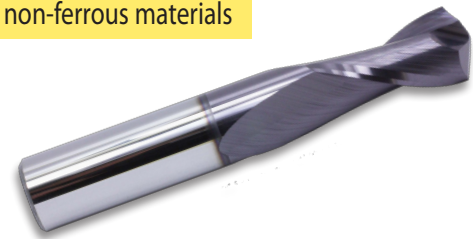
TECH
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Recommended for drilling and milling in mild steels and non-ferrous materials

Drill/End Mill

TiALN Coating

- Solid submicron grain carbide
- Four-facet drill point geometry
- Extremely versatile
- Point tolerance $\pm 1^\circ$



EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric								
57421	.1181	3.000	3.0	38	12	13.65	13.06	12.46	11.87	
57423	.1250	1/8"	3.175	1-1/2"	1/2"	13.11	12.54	11.97	11.40	
57425	.1575	4.000	4.0	50	14	17.19	16.45	15.70	14.95	
57427	.1875	3/16"	4.762	3/16"	2"	16.49	15.77	15.06	14.34	
57429	.1969	5.000	5.0	65	16	22.94	21.95	20.95	19.95	
57431	.2362	6.000	6.0	65	19	23.39	22.37	21.36	20.34	
57433	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	22.49	21.52	20.54	19.56
57435	.3125	5/16"	7.937	5/16"	2-1/2"	7/8"	30.49	29.16	27.84	26.51
57437	.3150	8.000	8.0	65	22	31.63	30.25	28.88	27.50	
57439	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	35.60	34.06	32.51	30.96
57441	.3937	10.000	10.0	70	25	42.99	41.12	39.25	37.38	
57443	.4375	7/16"	11.112	7/16"	2-3/4"	1"	43.06	41.18	39.31	37.44
57445	.4724	12.000	12.0	75	25	63.31	60.56	57.80	55.05	
57447	.5000	1/2"	12.700	1/2"	3"	1"	60.73	58.09	55.45	52.81
57449	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	96.69	92.49	88.28	84.08
57451	.6299	16.000	16.0	88	32	100.89	96.50	92.12	87.73	
57453	.7500	3/4"	19.050	3/4"	4"	1-1/2"	138.66	132.63	126.60	120.57
57455	.7874	20.000	20.0	100	38	196.24	187.70	179.17	170.64	

MATERIAL HARDNESS (Rc)

70

35

0

DRILL MILLS