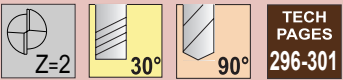


TOLERANCES	
d_1	+0.00" -0.002" (+.000 / -.050mm)
d_2	h6



DRILL MILLS

Drill/End Mill

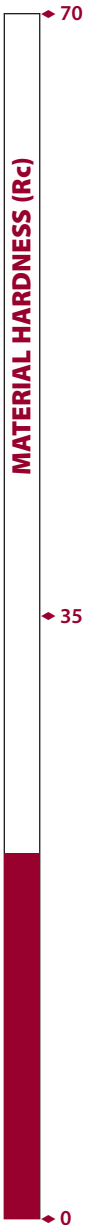
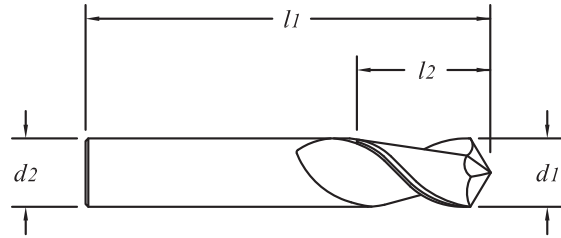
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

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



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"	11.18	10.69	10.21	9.72
57210	.1875	3/16"	4.763	3/16"	2"	5/8"	14.73	14.09	13.45	12.81
57220	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	18.30	17.50	16.71	15.91
57230	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	23.99	22.95	21.90	20.86
57240	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	29.36	28.08	26.81	25.53
57250	.4375	7/16"	11.113	7/16"	2-3/4"	1"	36.13	34.56	32.99	31.42
57260	.5000	1/2"	12.700	1/2"	3"	1"	54.65	52.27	49.90	47.52
57270	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	88.39	84.55	80.70	76.86
57280	.7500	3/4"	19.050	3/4"	4"	1-1/2"	130.08	124.42	118.77	113.11

TOLERANCES

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



TECH
PAGES
296-301

Drill/End Mill

TiALN Coating

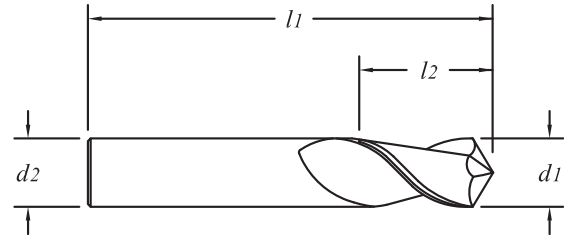
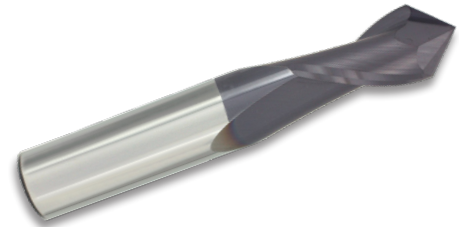
Solid submicron grain carbide

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"	13.77	13.17	12.57	11.97
57217	.1875	3/16"	4.763	3/16"	2"	5/8"	17.32	16.57	15.81	15.06
57227	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	23.62	22.59	21.57	20.54
57237	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	32.02	30.62	29.23	27.84
57247	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	37.39	35.76	34.14	32.51
57257	.4375	7/16"	11.113	7/16"	2-3/4"	1"	45.21	43.24	41.28	39.31
57267	.5000	1/2"	12.700	1/2"	3"	1"	63.77	61.00	58.22	55.45
57277	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	101.52	97.11	92.69	88.28
57287	.7500	3/4"	19.050	3/4"	4"	1-1/2"	145.59	139.26	132.93	126.60

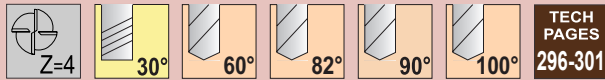
70

MATERIAL HARDNESS (Rc)

35

0

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



Drill/End Mill

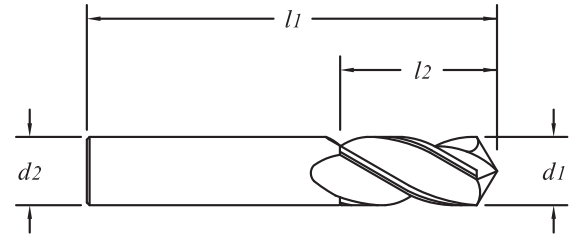
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

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



MATERIAL HARDNESS (RC)

70

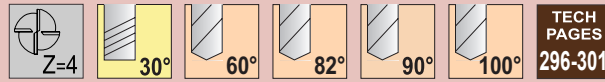
35

0

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								
-	-	58198	-	.1181	3.000	3.0	38	12	11.75	11.24	10.73	10.22	
-	57346	58200	-	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	11.18	10.69	10.21	9.72
-	-	58202	-	.1575		4.000	4.0	50	14	15.47	14.80	14.12	13.45
-	57350	58210	57390	.1875	3/16"	4.763	3/16"	2"	5/8"	14.73	14.09	13.45	12.81
-	57352	58212	57392	.1969		5.000	5.0	65	16	18.76	17.94	17.13	16.31
57314	57354	58214	-	.2362		6.000	6.0	65	19	19.23	18.39	17.56	16.72
57316	57356	58220	57396	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	18.30	17.50	16.71	15.91
57318	57358	58230	57398	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	23.99	22.95	21.90	20.86
57320	-	58232	57400	.3150		8.000	8.0	65	22	25.24	24.15	23.05	21.95
57322	57362	58240	57402	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	29.36	28.08	26.81	25.53
57324	-	58242	57404	.3937		10.000	10.0	70	25	36.04	34.47	32.91	31.34
-	-	58252	57408	.4724		12.000	12.0	75	25	57.40	54.90	52.41	49.91
57330	57370	58260	57410	.5000	1/2"	12.700	1/2"	3"	1"	54.65	52.27	49.90	47.52
57332	57372	58270	57412	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	88.39	84.55	80.70	76.86
-	-	58272	57414	.6299		16.000	16.0	88	32	92.78	88.75	84.71	80.68
57336	57376	58280	-	.7500	3/4"	19.050	3/4"	4"	1-1/2"	130.08	124.42	118.77	113.11

TOLERANCES

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



Drill/End Mill

TiAlN Coating

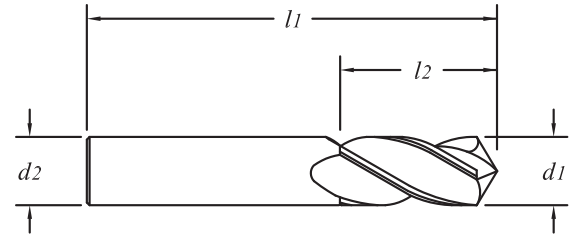
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

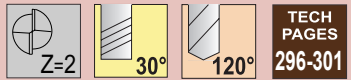
Point tolerance ±0°30'



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								
-	-	58205	-	.1181	3.000	3.0	38	12	14.33	13.71	13.08	12.46	
-	58346	58207	-	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	13.77	13.17	12.57	11.97
-	58348	58209	58388	.1575		4.000	4.0	50	14	18.06	17.27	16.49	15.70
-	58350	58217	58390	.1875	3/16"	4.763	3/16"	2"	5/8"	17.32	16.57	15.81	15.06
-	-	58219	-	.1969		5.000	5.0	65	16	24.09	23.05	22.00	20.95
58314	58354	58221	58394	.2362		6.000	6.0	65	19	24.56	23.50	22.43	21.36
58316	58356	58227	58396	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	23.62	22.59	21.57	20.54
58318	58358	58237	58398	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	32.02	30.62	29.23	27.84
58320	-	58239	58400	.3150		8.000	8.0	65	22	33.21	31.77	30.32	28.88
58322	58362	58247	58402	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	37.39	35.76	34.14	32.51
58324	58364	58249	58404	.3937		10.000	10.0	70	25	45.14	43.18	41.21	39.25
58326	58366	58257	-	.4375	7/16"	11.113	7/16"	2-3/4"	1"	45.21	43.24	41.28	39.31
58328	-	58259	58408	.4724		12.000	12.0	75	25	66.47	63.58	60.69	57.80
58330	58370	58267	58410	.5000	1/2"	12.700	1/2"	3"	1"	63.77	61.00	58.22	55.45
58332	58372	58277	58412	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	101.52	97.11	92.69	88.28
-	58374	58279	-	.6299		16.000	16.0	88	32	105.94	101.33	96.73	92.12
58336	58376	58287	58416	.7500	3/4"	19.050	3/4"	4"	1-1/2"	145.59	139.26	132.93	126.60
-	58378	58289	-	.7874		20.000	20.0	100	38	206.05	197.09	188.13	179.17

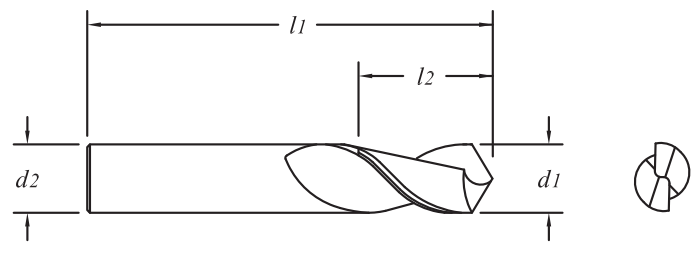
MATERIAL HARDNESS (Rc)
70
35
0

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



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 ±1°



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							
57421	.1181	3.000	3.0	38	12	14.33	13.71	13.08	12.46
57423	.1250	3.175	1/8"	1-1/2"	1/2"	13.77	13.17	12.57	11.97
57425	.1575	4.000	4.0	50	14	18.06	17.27	16.49	15.70
57427	.1875	4.762	3/16"	2"	5/8"	17.32	16.57	15.81	15.06
57429	.1969	5.000	5.0	65	16	24.09	23.05	22.00	20.95
57431	.2362	6.000	6.0	65	19	24.56	23.50	22.43	21.36
57433	.2500	6.350	1/4"	2-1/2"	3/4"	23.62	22.59	21.57	20.54
57435	.3125	7.937	5/16"	2-1/2"	7/8"	32.02	30.62	29.23	27.84
57437	.3150	8.000	8.0	65	22	33.21	31.77	30.32	28.88
57439	.3750	9.525	3/8"	2-1/2"	7/8"	37.39	35.76	34.14	32.51
57441	.3937	10.000	10.0	70	25	45.14	43.18	41.21	39.25
57443	.4375	11.112	7/16"	2-3/4"	1"	45.21	43.24	41.28	39.31
57445	.4724	12.000	12.0	75	25	66.47	63.58	60.69	57.80
57447	.5000	12.700	1/2"	3"	1"	63.77	61.00	58.22	55.45
57449	.6250	15.875	5/8"	3-1/2"	1-1/4"	101.52	97.11	92.69	88.28
57451	.6299	16.000	16.0	88	32	105.94	101.33	96.73	92.12
57453	.7500	19.050	3/4"	4"	1-1/2"	145.59	139.26	132.93	126.60
57455	.7874	20.000	20.0	100	38	206.05	197.09	188.13	179.17