

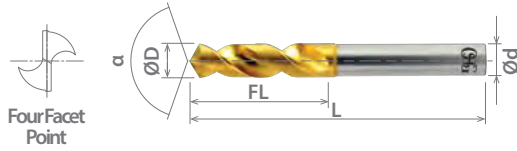


## List 1100

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015



ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
6150511	●	-	-	-	0.500	0.01969	3.00	38.00	3.00	150	TiAlN
61505	●	-	-	-	0.500	0.01969	3.00	38.00	3.00	150	TiN
859505111	●	-	-	-	0.510	0.02008	3.00	38.00	3.00	150	TiAlN
8595051	●	-	-	-	0.510	0.02008	3.00	38.00	3.00	150	TiN
8595052	●	-	-	-	0.520	0.02047	3.00	38.00	3.00	150	TiN
8595053	●	-	-	-	0.530	0.02087	3.00	38.00	3.00	150	TiN
8595054	●	-	-	-	0.540	0.02126	3.50	38.00	3.00	150	TiN
8595055	●	-	-	-	0.550	0.02165	3.50	38.00	3.00	150	TiN
8595056	●	-	-	-	0.560	0.02205	3.50	38.00	3.00	150	TiN
859505711	●	-	-	-	0.570	0.02244	3.50	38.00	3.00	150	TiAlN
8595057	●	-	-	-	0.570	0.02244	3.50	38.00	3.00	150	TiN
8595058	●	-	-	-	0.580	0.02283	3.50	38.00	3.00	150	TiN
8595059	●	-	-	-	0.590	0.02323	3.50	38.00	3.00	150	TiN
6150611	●	-	-	-	0.600	0.02362	3.50	38.00	3.00	150	TiAlN
61506	●	-	-	-	0.600	0.02362	3.50	38.00	3.00	150	TiN
8595061	●	-	-	-	0.610	0.02402	4.00	38.00	3.00	150	TiN
8595062	●	-	-	-	0.620	0.02441	4.00	38.00	3.00	150	TiN
8595063	●	-	-	-	0.630	0.02480	4.00	38.00	3.00	150	TiN
859506411	●	-	-	-	0.640	0.02520	4.00	38.00	3.00	150	TiAlN
8595064	●	-	-	-	0.640	0.02520	4.00	38.00	3.00	150	TiN
859506511	●	-	-	-	0.650	0.02559	4.00	38.00	3.00	150	TiAlN
8595065	●	-	-	-	0.650	0.02559	4.00	38.00	3.00	150	TiN
8595066	●	-	-	-	0.660	0.02598	4.00	38.00	3.00	150	TiN
8595067	●	-	-	-	0.670	0.02638	4.00	38.00	3.00	150	TiN
8595068	●	-	-	-	0.680	0.02677	4.50	38.00	3.00	150	TiN
8595069	●	-	-	-	0.690	0.02717	4.50	38.00	3.00	150	TiN
6150711	●	-	-	-	0.700	0.02756	4.50	38.00	3.00	150	TiAlN
61507	●	-	-	-	0.700	0.02756	4.50	38.00	3.00	150	TiN
859507111	●	-	-	-	0.710	0.02795	4.50	38.00	3.00	150	TiAlN
8595071	●	-	-	-	0.710	0.02795	4.50	38.00	3.00	150	TiN
8595072	●	-	-	-	0.720	0.02835	4.50	38.00	3.00	150	TiN
8595073	●	-	-	-	0.730	0.02874	4.50	38.00	3.00	150	TiN
8595074	●	-	-	-	0.740	0.02913	4.50	38.00	3.00	150	TiN
8595075	●	-	-	-	0.750	0.02953	4.50	38.00	3.00	150	TiN
8595076	●	-	-	-	0.760	0.02992	5.00	38.00	3.00	150	TiN
8595077	●	-	-	-	0.770	0.03031	5.00	38.00	3.00	150	TiN
8595078	●	-	-	-	0.780	0.03071	5.00	38.00	3.00	150	TiN
859507911	●	-	-	-	0.790	0.03110	5.00	38.00	3.00	150	TiAlN
8595079	●	-	-	-	0.790	0.03110	5.00	38.00	3.00	150	TiN
61508	●	-	-	-	0.800	0.03150	5.00	38.00	3.00	150	TiN
859508111	●	-	-	-	0.810	0.03189	5.00	38.00	3.00	150	TiAlN
8595081	●	-	-	-	0.810	0.03189	5.00	38.00	3.00	150	TiN
8595082	●	-	-	-	0.820	0.03228	5.00	38.00	3.00	150	TiN
8595083	●	-	-	-	0.830	0.03268	5.00	38.00	3.00	150	TiN
859508411	●	-	-	-	0.840	0.03307	5.00	38.00	3.00	150	TiAlN
8595084	●	-	-	-	0.840	0.03307	5.00	38.00	3.00	150	TiN
8595085	●	-	-	-	0.850	0.03346	5.00	38.00	3.00	150	TiN
8595086	●	-	-	-	0.860	0.03386	5.50	38.00	3.00	150	TiN
8595087	●	-	-	-	0.870	0.03425	5.50	38.00	3.00	150	TiN
8595088	●	-	-	-	0.880	0.03465	5.50	38.00	3.00	150	TiN
8595089	●	-	-	-	0.890	0.03504	5.50	38.00	3.00	150	TiN
61509	●	-	-	-	0.900	0.03543	5.50	38.00	3.00	150	TiN
859509111	●	-	-	-	0.910	0.03583	5.50	38.00	3.00	150	TiAlN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)				Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment	
		Fractional Size	Wire Gage	Letter Size	mm						Inch
8595091	●	-	-	-	0.910	0.03583	5.50	38.00	3.00	150	TiN
8595092	●	-	-	-	0.920	0.03622	5.50	38.00	3.00	150	TiN
8595093	●	-	-	-	0.930	0.03661	5.50	38.00	3.00	150	TiN
8595094	●	-	-	-	0.940	0.03701	5.50	38.00	3.00	150	TiN
8595095	●	-	-	-	0.950	0.03740	5.50	38.00	3.00	150	TiN
8595096	●	-	-	-	0.960	0.03780	6.00	38.00	3.00	150	TiN
8595097	●	-	-	-	0.970	0.03819	6.00	38.00	3.00	150	TiN
8595098	●	-	-	-	0.980	0.03858	6.00	38.00	3.00	150	TiN
8595099	●	-	-	-	0.990	0.03898	6.00	38.00	3.00	150	TiN
6151011	●	-	-	-	1.000	0.03937	6.00	38.00	3.00	140	TiAlN
61510	●	-	-	-	1.000	0.03937	6.00	38.00	3.00	140	TiN
8595101	●	-	-	-	1.010	0.03976	6.00	38.00	3.00	140	TiN
859510211	●	-	-	-	1.020	0.04016	6.00	38.00	3.00	140	TiAlN
8595102	●	-	-	-	1.020	0.04016	6.00	38.00	3.00	140	TiN
859510311	●	-	-	-	1.030	0.04055	6.00	38.00	3.00	140	TiAlN
8595103	●	-	-	-	1.030	0.04055	6.00	38.00	3.00	140	TiN
8595104	●	-	-	-	1.040	0.04094	6.00	38.00	3.00	140	TiN
8595105	●	-	-	-	1.050	0.04134	6.00	38.00	3.00	140	TiN
8595106	●	-	-	-	1.060	0.04173	6.00	38.00	3.00	140	TiN
8595107	●	-	-	-	1.070	0.04213	7.00	39.00	3.00	140	TiN
8595108	●	-	-	-	1.080	0.04252	7.00	39.00	3.00	140	TiN
859510911	●	-	-	-	1.090	0.04291	7.00	39.00	3.00	140	TiAlN
8595109	●	-	-	-	1.090	0.04291	7.00	39.00	3.00	140	TiN
6151111	●	-	-	-	1.100	0.04331	7.00	39.00	3.00	140	TiAlN
61511	●	-	-	-	1.100	0.04331	7.00	39.00	3.00	140	TiN
8595111	●	-	-	-	1.110	0.04370	7.00	39.00	3.00	140	TiN
8595112	●	-	-	-	1.120	0.04409	7.00	39.00	3.00	140	TiN
8595113	●	-	-	-	1.130	0.04449	7.00	39.00	3.00	140	TiN
859511411	●	-	-	-	1.140	0.04488	7.00	39.00	3.00	140	TiAlN
8595114	●	-	-	-	1.140	0.04488	7.00	39.00	3.00	140	TiN
8595115	●	-	-	-	1.150	0.04528	7.00	39.00	3.00	140	TiN
8595116	●	-	-	-	1.160	0.04567	7.00	39.00	3.00	140	TiN
8595117	●	-	-	-	1.170	0.04606	7.00	39.00	3.00	140	TiN
859511811	●	-	-	-	1.180	0.04646	7.00	39.00	3.00	140	TiAlN
8595118	●	-	-	-	1.180	0.04646	7.00	39.00	3.00	140	TiN
859511911	●	-	-	-	1.190	0.04685	8.00	40.00	3.00	140	TiAlN
8595119	●	-	-	-	1.190	0.04685	8.00	40.00	3.00	140	TiN
6151211	●	-	-	-	1.200	0.04724	8.00	40.00	3.00	140	TiAlN
61512	●	-	-	-	1.200	0.04724	8.00	40.00	3.00	140	TiN
8595121	●	-	-	-	1.210	0.04764	8.00	40.00	3.00	140	TiN
859512211	●	-	-	-	1.220	0.04803	8.00	40.00	3.00	140	TiAlN
8595122	●	-	-	-	1.220	0.04803	8.00	40.00	3.00	140	TiN
8595123	●	-	-	-	1.230	0.04843	8.00	40.00	3.00	140	TiN
8595124	●	-	-	-	1.240	0.04882	8.00	40.00	3.00	140	TiN
859512511	●	-	-	-	1.250	0.04921	8.00	40.00	3.00	140	TiAlN
8595125	●	-	-	-	1.250	0.04921	8.00	40.00	3.00	140	TiN
8595126	●	-	-	-	1.260	0.04961	8.00	40.00	3.00	140	TiN
859512711	●	-	-	-	1.270	0.05000	8.00	40.00	3.00	140	TiAlN
8595127	●	-	-	-	1.270	0.05000	8.00	40.00	3.00	140	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
Low	Medium	High							6061	7075						
1010	1035	1065	4140	4340				6061	7075	Casting	Inconel	6Al4V (30 HRC)				
○	○				○	○	○		○	○						

○ Good ○ Best



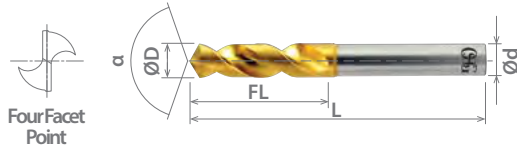


## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015



ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595128	●	-	-	-	1.280	0.05039	8.00	40.00	3.00	140	TiN
8595129	●	-	-	-	1.290	0.05079	8.00	40.00	3.00	140	TiN
61513	●	-	-	-	1.300	0.05118	8.00	40.00	3.00	140	TiN
8595131	●	-	-	-	1.310	0.05157	8.00	40.00	3.00	140	TiN
859513211	●	-	-	-	1.320	0.05197	8.00	40.00	3.00	140	TiAlN
8595132	●	-	-	-	1.320	0.05197	8.00	40.00	3.00	140	TiN
8595133	●	-	-	-	1.330	0.05236	9.00	41.00	3.00	140	TiN
8595134	●	-	-	-	1.340	0.05276	9.00	41.00	3.00	140	TiN
859513511	●	-	-	-	1.350	0.05315	9.00	41.00	3.00	140	TiAlN
8595135	●	-	-	-	1.350	0.05315	9.00	41.00	3.00	140	TiN
8595136	●	-	-	-	1.360	0.05354	9.00	41.00	3.00	140	TiN
8595137	●	-	-	-	1.370	0.05394	9.00	41.00	3.00	140	TiN
8595138	●	-	-	-	1.380	0.05433	9.00	41.00	3.00	140	TiN
8595139	●	-	-	-	1.390	0.05472	9.00	41.00	3.00	140	TiN
6151411	●	-	-	-	1.400	0.05512	9.00	41.00	3.00	140	TiAlN
61514	●	-	-	-	1.400	0.05512	9.00	41.00	3.00	140	TiN
859514111	●	-	-	-	1.410	0.05551	9.00	41.00	3.00	140	TiAlN
8595141	●	-	-	-	1.410	0.05551	9.00	41.00	3.00	140	TiN
8595142	●	-	-	-	1.420	0.05591	9.00	41.00	3.00	140	TiN
8595143	●	-	-	-	1.430	0.05630	9.00	41.00	3.00	140	TiN
859514411	●	-	-	-	1.440	0.05669	9.00	41.00	3.00	140	TiAlN
8595144	●	-	-	-	1.440	0.05669	9.00	41.00	3.00	140	TiN
859514511	●	-	-	-	1.450	0.05709	9.00	41.00	3.00	140	TiAlN
8595145	●	-	-	-	1.450	0.05709	9.00	41.00	3.00	140	TiN
8595146	●	-	-	-	1.460	0.05748	9.00	41.00	3.00	140	TiN
8595147	●	-	-	-	1.470	0.05787	9.00	41.00	3.00	140	TiN
8595148	●	-	-	-	1.480	0.05827	9.00	41.00	3.00	140	TiN
8595149	●	-	-	-	1.490	0.05866	9.00	41.00	3.00	140	TiN
6151511	●	-	-	-	1.500	0.05906	9.00	41.00	3.00	140	TiAlN
61515	●	-	-	-	1.500	0.05906	9.00	41.00	3.00	140	TiN
859515111	●	-	-	-	1.510	0.05945	10.00	42.00	3.00	140	TiAlN
8595151	●	-	-	-	1.510	0.05945	10.00	42.00	3.00	140	TiN
859515211	●	-	-	-	1.520	0.05984	10.00	42.00	3.00	140	TiAlN
8595152	●	-	-	-	1.520	0.05984	10.00	42.00	3.00	140	TiN
8595153	●	-	-	-	1.530	0.06024	10.00	42.00	3.00	140	TiN
8595154	●	-	-	-	1.540	0.06063	10.00	42.00	3.00	140	TiN
859515511	●	-	-	-	1.550	0.06102	10.00	42.00	3.00	140	TiAlN
8595155	●	-	-	-	1.550	0.06102	10.00	42.00	3.00	140	TiN
859515611	●	-	-	-	1.560	0.06142	10.00	42.00	3.00	140	TiAlN
8595156	●	-	-	-	1.560	0.06142	10.00	42.00	3.00	140	TiN
859515711	●	-	-	-	1.570	0.06181	10.00	42.00	3.00	140	TiAlN
8595157	●	-	-	-	1.570	0.06181	10.00	42.00	3.00	140	TiN
859515811	●	-	-	-	1.580	0.06220	10.00	42.00	3.00	140	TiAlN
8595158	●	-	-	-	1.580	0.06220	10.00	42.00	3.00	140	TiN
859515911	●	-	-	-	1.590	0.06260	10.00	42.00	3.00	140	TiAlN
8595159	●	-	-	-	1.590	0.06260	10.00	42.00	3.00	140	TiN
6151611	●	-	-	-	1.600	0.06299	10.00	42.00	3.00	140	TiAlN
61516	●	-	-	-	1.600	0.06299	10.00	42.00	3.00	140	TiN
859516111	●	-	-	-	1.610	0.06339	10.00	42.00	3.00	140	TiAlN
8595161	●	-	-	-	1.610	0.06339	10.00	42.00	3.00	140	TiN
859516211	●	-	-	-	1.620	0.06378	10.00	42.00	3.00	140	TiAlN
8595162	●	-	-	-	1.620	0.06378	10.00	42.00	3.00	140	TiN
8595163	●	-	-	-	1.630	0.06417	10.00	42.00	3.00	140	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595164	●	-	-	-	1.640	0.06457	10.00	42.00	3.00	140	TiN
859516511	●	-	-	-	1.650	0.06496	10.00	42.00	3.00	140	TiAlN
8595165	●	-	-	-	1.650	0.06496	10.00	42.00	3.00	140	TiN
8595166	●	-	-	-	1.660	0.06535	10.00	42.00	3.00	140	TiN
8595167	●	-	-	-	1.670	0.06575	10.00	42.00	3.00	140	TiN
8595168	●	-	-	-	1.680	0.06614	10.00	42.00	3.00	140	TiN
8595169	●	-	-	-	1.690	0.06654	10.00	42.00	3.00	140	TiN
6151711	●	-	-	-	1.700	0.06693	10.00	42.00	3.00	140	TiAlN
61517	●	-	-	-	1.700	0.06693	10.00	42.00	3.00	140	TiN
859517111	●	-	-	-	1.710	0.06732	11.00	43.00	3.00	140	TiAlN
8595171	●	-	-	-	1.710	0.06732	11.00	43.00	3.00	140	TiN
859517211	●	-	-	-	1.720	0.06772	11.00	43.00	3.00	140	TiAlN
8595172	●	-	-	-	1.720	0.06772	11.00	43.00	3.00	140	TiN
8595173	●	-	-	-	1.730	0.06811	11.00	43.00	3.00	140	TiN
859517411	●	-	-	-	1.740	0.06850	11.00	43.00	3.00	140	TiAlN
8595174	●	-	-	-	1.740	0.06850	11.00	43.00	3.00	140	TiN
859517511	●	-	-	-	1.750	0.06890	11.00	43.00	3.00	140	TiAlN
8595175	●	-	-	-	1.750	0.06890	11.00	43.00	3.00	140	TiN
859517611	●	-	-	-	1.760	0.06929	11.00	43.00	3.00	140	TiAlN
8595176	●	-	-	-	1.760	0.06929	11.00	43.00	3.00	140	TiN
859517711	●	-	-	-	1.770	0.06969	11.00	43.00	3.00	140	TiAlN
8595177	●	-	-	-	1.770	0.06969	11.00	43.00	3.00	140	TiN
859517811	●	-	-	-	1.780	0.07008	11.00	43.00	3.00	140	TiAlN
8595178	●	-	-	-	1.780	0.07008	11.00	43.00	3.00	140	TiN
8595179	●	-	-	-	1.790	0.07047	11.00	43.00	3.00	140	TiN
6151811	●	-	-	-	1.800	0.07087	11.00	43.00	3.00	140	TiAlN
61518	●	-	-	-	1.800	0.07087	11.00	43.00	3.00	140	TiN
8595181	●	-	-	-	1.810	0.07126	11.00	43.00	3.00	140	TiN
8595182	●	-	-	-	1.820	0.07165	11.00	43.00	3.00	140	TiN
8595183	●	-	-	-	1.830	0.07205	11.00	43.00	3.00	140	TiN
8595184	●	-	-	-	1.840	0.07244	11.00	43.00	3.00	140	TiN
859518511	●	-	-	-	1.850	0.07283	11.00	43.00	3.00	140	TiAlN
8595185	●	-	-	-	1.850	0.07283	11.00	43.00	3.00	140	TiN
8595186	●	-	-	-	1.860	0.07323	11.00	43.00	3.00	140	TiN
8595187	●	-	-	-	1.870	0.07362	11.00	43.00	3.00	140	TiN
8595188	●	-	-	-	1.880	0.07402	11.00	43.00	3.00	140	TiN
8595189	●	-	-	-	1.890	0.07441	11.00	43.00	3.00	140	TiN
6151911	●	-	-	-	1.900	0.07480	11.00	43.00	3.00	140	TiAlN
61519	●	-	-	-	1.900	0.07480	11.00	43.00	3.00	140	TiN
859519111	●	-	-	-	1.910	0.07520	12.00	44.00	3.00	140	TiAlN
8595191	●	-	-	-	1.910	0.07520	12.00	44.00	3.00	140	TiN
8595192	●	-	-	-	1.920	0.07559	12.00	44.00	3.00	140	TiN
8595193	●	-	-	-	1.930	0.07598	12.00	44.00	3.00	140	TiN
8595194	●	-	-	-	1.940	0.07638	12.00	44.00	3.00	140	TiN
859519511	●	-	-	-	1.950	0.07677	12.00	44.00	3.00	140	TiAlN
8595195	●	-	-	-	1.950	0.07677	12.00	44.00	3.00	140	TiN
8595196	●	-	-	-	1.960	0.07717	12.00	44.00	3.00	140	TiN
859519711	●	-	-	-	1.970	0.07756	12.00	44.00	3.00	140	TiAlN
8595197	●	-	-	-	1.970	0.07756	12.00	44.00	3.00	140	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
Low	Medium	High							6061	7075						
1010	1035	1065	4140	4340	○	○	○	○	○	○						
1018	1045				○	○	○	○	○	○						

○ Good ○ Best

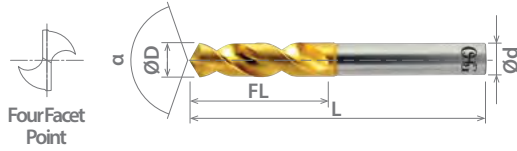




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number	Fractional Size	Diameter (D)				Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment	
		Wire Gage	Letter Size	mm	Inch						
859519811	●	-	-	-	1.980	0.07795	12.00	44.00	3.00	140	TiAlN
8595198	●	-	-	-	1.980	0.07795	12.00	44.00	3.00	140	TiN
859519911	●	-	-	-	1.990	0.07835	12.00	44.00	3.00	140	TiAlN
8595199	●	-	-	-	1.990	0.07835	12.00	44.00	3.00	140	TiN
6152011	●	-	-	-	2.000	0.07874	12.00	44.00	3.00	130	TiAlN
61520	●	-	-	-	2.000	0.07874	12.00	44.00	3.00	130	TiN
8595201	●	-	-	-	2.010	0.07913	12.00	44.00	3.00	130	TiN
8595202	●	-	-	-	2.020	0.07953	12.00	44.00	3.00	130	TiN
8595203	●	-	-	-	2.030	0.07992	12.00	44.00	3.00	130	TiN
8595204	●	-	-	-	2.040	0.08031	12.00	44.00	3.00	130	TiN
859520511	●	-	-	-	2.050	0.08071	12.00	44.00	3.00	130	TiAlN
8595205	●	-	-	-	2.050	0.08071	12.00	44.00	3.00	130	TiN
8595206	●	-	-	-	2.060	0.08110	12.00	44.00	3.00	130	TiN
8595207	●	-	-	-	2.070	0.08150	12.00	44.00	3.00	130	TiN
859520811	●	-	-	-	2.080	0.08189	12.00	44.00	3.00	130	TiAlN
8595208	●	-	-	-	2.080	0.08189	12.00	44.00	3.00	130	TiN
8595209	●	-	-	-	2.090	0.08228	12.00	44.00	3.00	130	TiN
61521	●	-	-	-	2.100	0.08268	12.00	44.00	3.00	130	TiN
8595211	●	-	-	-	2.110	0.08307	12.00	44.00	3.00	130	TiN
8595212	●	-	-	-	2.120	0.08346	12.00	44.00	3.00	130	TiN
8595213	●	-	-	-	2.130	0.08386	13.00	45.00	3.00	130	TiN
8595214	●	-	-	-	2.140	0.08425	13.00	45.00	3.00	130	TiN
859521511	●	-	-	-	2.150	0.08465	13.00	45.00	3.00	130	TiAlN
8595215	●	-	-	-	2.150	0.08465	13.00	45.00	3.00	130	TiN
8595216	●	-	-	-	2.160	0.08504	13.00	45.00	3.00	130	TiN
8595217	●	-	-	-	2.170	0.08543	13.00	45.00	3.00	130	TiN
8595218	●	-	-	-	2.180	0.08583	13.00	45.00	3.00	130	TiN
859521911	●	-	-	-	2.190	0.08622	13.00	45.00	3.00	130	TiAlN
8595219	●	-	-	-	2.190	0.08622	13.00	45.00	3.00	130	TiN
6152211	●	-	-	-	2.200	0.08661	13.00	45.00	3.00	130	TiAlN
61522	●	-	-	-	2.200	0.08661	13.00	45.00	3.00	130	TiN
8595221	●	-	-	-	2.210	0.08701	13.00	45.00	3.00	130	TiN
8595222	●	-	-	-	2.220	0.08740	13.00	45.00	3.00	130	TiN
8595223	●	-	-	-	2.230	0.08780	13.00	45.00	3.00	130	TiN
8595224	●	-	-	-	2.240	0.08819	13.00	45.00	3.00	130	TiN
859522511	●	-	-	-	2.250	0.08858	13.00	45.00	3.00	130	TiAlN
8595225	●	-	-	-	2.250	0.08858	13.00	45.00	3.00	130	TiN
859522611	●	-	-	-	2.260	0.08898	13.00	45.00	3.00	130	TiAlN
8595226	●	-	-	-	2.260	0.08898	13.00	45.00	3.00	130	TiN
8595227	●	-	-	-	2.270	0.08937	13.00	45.00	3.00	130	TiN
8595228	●	-	-	-	2.280	0.08976	13.00	45.00	3.00	130	TiN
8595229	●	-	-	-	2.290	0.09016	13.00	45.00	3.00	130	TiN
6152311	●	-	-	-	2.300	0.09055	13.00	45.00	3.00	130	TiAlN
61523	●	-	-	-	2.300	0.09055	13.00	45.00	3.00	130	TiN
8595231	●	-	-	-	2.310	0.09094	13.00	45.00	3.00	130	TiN
8595232	●	-	-	-	2.320	0.09134	13.00	45.00	3.00	130	TiN
8595233	●	-	-	-	2.330	0.09173	13.00	45.00	3.00	130	TiN
8595234	●	-	-	-	2.340	0.09213	13.00	45.00	3.00	130	TiN
8595235	●	-	-	-	2.350	0.09252	13.00	45.00	3.00	130	TiN
8595236	●	-	-	-	2.360	0.09291	13.00	45.00	3.00	130	TiN
859523711	●	-	-	-	2.370	0.09331	14.00	46.00	3.00	130	TiAlN
8595237	●	-	-	-	2.370	0.09331	14.00	46.00	3.00	130	TiN
859523811	●	-	-	-	2.380	0.09370	14.00	46.00	3.00	130	TiAlN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595238	●	-	-	-	2.380	0.09370	14.00	46.00	3.00	130	TiN
859523911	●	-	-	-	2.390	0.09409	14.00	46.00	3.00	130	TiAlN
8595239	●	-	-	-	2.390	0.09409	14.00	46.00	3.00	130	TiN
6152411	●	-	-	-	2.400	0.09449	14.00	46.00	3.00	130	TiAlN
61524	●	-	-	-	2.400	0.09449	14.00	46.00	3.00	130	TiN
859524111	●	-	-	-	2.410	0.09488	14.00	46.00	3.00	130	TiAlN
8595241	●	-	-	-	2.410	0.09488	14.00	46.00	3.00	130	TiN
859524211	●	-	-	-	2.420	0.09528	14.00	46.00	3.00	130	TiAlN
8595242	●	-	-	-	2.420	0.09528	14.00	46.00	3.00	130	TiN
8595243	●	-	-	-	2.430	0.09567	14.00	46.00	3.00	130	TiN
859524411	●	-	-	-	2.440	0.09606	14.00	46.00	3.00	130	TiAlN
8595244	●	-	-	-	2.440	0.09606	14.00	46.00	3.00	130	TiN
859524511	●	-	-	-	2.450	0.09646	14.00	46.00	3.00	130	TiAlN
8595245	●	-	-	-	2.450	0.09646	14.00	46.00	3.00	130	TiN
859524611	●	-	-	-	2.460	0.09685	14.00	46.00	3.00	130	TiAlN
8595246	●	-	-	-	2.460	0.09685	14.00	46.00	3.00	130	TiN
8595247	●	-	-	-	2.470	0.09724	14.00	46.00	3.00	130	TiN
8595248	●	-	-	-	2.480	0.09764	14.00	46.00	3.00	130	TiN
859524911	●	-	-	-	2.490	0.09803	14.00	46.00	3.00	130	TiAlN
8595249	●	-	-	-	2.490	0.09803	14.00	46.00	3.00	130	TiN
6152511	●	-	-	-	2.500	0.09843	14.00	46.00	3.00	130	TiAlN
61525	●	-	-	-	2.500	0.09843	14.00	46.00	3.00	130	TiN
8595251	●	-	-	-	2.510	0.09882	14.00	46.00	3.00	130	TiN
859525211	●	-	-	-	2.520	0.09921	14.00	46.00	3.00	130	TiAlN
8595252	●	-	-	-	2.520	0.09921	14.00	46.00	3.00	130	TiN
859525311	●	-	-	-	2.530	0.09961	14.00	46.00	3.00	130	TiAlN
8595253	●	-	-	-	2.530	0.09961	14.00	46.00	3.00	130	TiN
8595254	●	-	-	-	2.540	0.10000	14.00	46.00	3.00	130	TiN
859525511	●	-	-	-	2.550	0.10039	14.00	46.00	3.00	130	TiAlN
8595255	●	-	-	-	2.550	0.10039	14.00	46.00	3.00	130	TiN
8595256	●	-	-	-	2.560	0.10079	14.00	46.00	3.00	130	TiN
8595257	●	-	-	-	2.570	0.10118	14.00	46.00	3.00	130	TiN
859525811	●	-	-	-	2.580	0.10157	14.00	46.00	3.00	130	TiAlN
8595258	●	-	-	-	2.580	0.10157	14.00	46.00	3.00	130	TiN
8595259	●	-	-	-	2.590	0.10197	14.00	46.00	3.00	130	TiN
6152611	●	-	-	-	2.600	0.10236	14.00	46.00	3.00	130	TiAlN
61526	●	-	-	-	2.600	0.10236	14.00	46.00	3.00	130	TiN
8595261	●	-	-	-	2.610	0.10276	14.00	46.00	3.00	130	TiN
8595262	●	-	-	-	2.620	0.10315	14.00	46.00	3.00	130	TiN
8595263	●	-	-	-	2.630	0.10354	14.00	46.00	3.00	130	TiN
859526411	●	-	-	-	2.640	0.10394	14.00	46.00	3.00	130	TiAlN
8595264	●	-	-	-	2.640	0.10394	14.00	46.00	3.00	130	TiN
859526511	●	-	-	-	2.650	0.10433	14.00	46.00	3.00	130	TiAlN
8595265	●	-	-	-	2.650	0.10433	14.00	46.00	3.00	130	TiN
859526611	●	-	-	-	2.660	0.10472	16.00	48.00	3.00	130	TiAlN
8595266	●	-	-	-	2.660	0.10472	16.00	48.00	3.00	130	TiN
8595267	●	-	-	-	2.670	0.10512	16.00	48.00	3.00	130	TiN
8595268	●	-	-	-	2.680	0.10551	16.00	48.00	3.00	130	TiN
8595269	●	-	-	-	2.690	0.10591	16.00	48.00	3.00	130	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H						
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel						
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium							
Low	Medium	High							6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
1010	1035		4140																
1018	1045	1065	4340																
⊙	○				⊙	⊙	○		⊙	⊙									

○ Good ⊙ Best



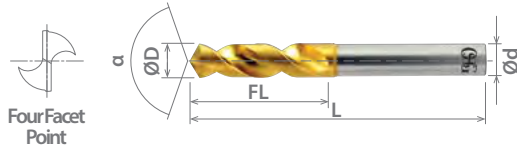




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
6152711	●	-	-	-	2.700	0.10630	16.00	48.00	3.00	130	TiAlN
61527	●	-	-	-	2.700	0.10630	16.00	48.00	3.00	130	TiN
859527111	●	-	-	-	2.710	0.10669	16.00	48.00	3.00	130	TiAlN
8595271	●	-	-	-	2.710	0.10669	16.00	48.00	3.00	130	TiN
8595272	●	-	-	-	2.720	0.10709	16.00	48.00	3.00	130	TiN
8595273	●	-	-	-	2.730	0.10748	16.00	48.00	3.00	130	TiN
8595274	●	-	-	-	2.740	0.10787	16.00	48.00	3.00	130	TiN
8595275	●	-	-	-	2.750	0.10827	16.00	48.00	3.00	130	TiN
8595276	●	-	-	-	2.760	0.10866	16.00	48.00	3.00	130	TiN
8595277	●	-	-	-	2.770	0.10906	16.00	48.00	3.00	130	TiN
859527811	●	-	-	-	2.780	0.10945	16.00	48.00	3.00	130	TiAlN
8595278	●	-	-	-	2.780	0.10945	16.00	48.00	3.00	130	TiN
859527911	●	-	-	-	2.790	0.10984	16.00	48.00	3.00	130	TiAlN
8595279	●	-	-	-	2.790	0.10984	16.00	48.00	3.00	130	TiN
6152811	●	-	-	-	2.800	0.11024	16.00	48.00	3.00	130	TiAlN
61528	●	-	-	-	2.800	0.11024	16.00	48.00	3.00	130	TiN
8595281	●	-	-	-	2.810	0.11063	16.00	48.00	3.00	130	TiN
859528211	●	-	-	-	2.820	0.11102	16.00	48.00	3.00	130	TiAlN
8595282	●	-	-	-	2.820	0.11102	16.00	48.00	3.00	130	TiN
859528311	●	-	-	-	2.830	0.11142	16.00	48.00	3.00	130	TiAlN
8595283	●	-	-	-	2.830	0.11142	16.00	48.00	3.00	130	TiN
8595284	●	-	-	-	2.840	0.11181	16.00	48.00	3.00	130	TiN
859528511	●	-	-	-	2.850	0.11220	16.00	48.00	3.00	130	TiAlN
8595285	●	-	-	-	2.850	0.11220	16.00	48.00	3.00	130	TiN
859528611	●	-	-	-	2.860	0.11260	16.00	48.00	3.00	130	TiAlN
8595286	●	-	-	-	2.860	0.11260	16.00	48.00	3.00	130	TiN
8595287	●	-	-	-	2.870	0.11299	16.00	48.00	3.00	130	TiN
8595288	●	-	-	-	2.880	0.11339	16.00	48.00	3.00	130	TiN
8595289	●	-	-	-	2.890	0.11378	16.00	48.00	3.00	130	TiN
6152911	●	-	-	-	2.900	0.11417	16.00	48.00	3.00	130	TiAlN
61529	●	-	-	-	2.900	0.11417	16.00	48.00	3.00	130	TiN
8595291	●	-	-	-	2.910	0.11457	16.00	48.00	3.00	130	TiN
8595292	●	-	-	-	2.920	0.11496	16.00	48.00	3.00	130	TiN
8595293	●	-	-	-	2.930	0.11535	16.00	48.00	3.00	130	TiN
8595294	●	-	-	-	2.940	0.11575	16.00	48.00	3.00	130	TiN
859529511	●	-	-	-	2.950	0.11614	16.00	48.00	3.00	130	TiAlN
8595295	●	-	-	-	2.950	0.11614	16.00	48.00	3.00	130	TiN
8595296	●	-	-	-	2.960	0.11654	16.00	48.00	3.00	130	TiN
8595297	●	-	-	-	2.970	0.11693	16.00	48.00	3.00	130	TiN
8595298	●	-	-	-	2.980	0.11732	16.00	48.00	3.00	130	TiN
8595299	●	-	-	-	2.990	0.11772	16.00	48.00	3.00	130	TiN
6153011	●	-	-	-	3.000	0.11811	16.00	48.00	3.00	130	TiAlN
61530	●	-	-	-	3.000	0.11811	16.00	48.00	3.00	130	TiN
8595301	●	-	-	-	3.010	0.11850	18.00	50.00	4.00	130	TiN
8595302	●	-	-	-	3.020	0.11890	18.00	50.00	4.00	130	TiN
8595303	●	-	-	-	3.030	0.11929	18.00	50.00	4.00	130	TiN
8595304	●	-	-	-	3.040	0.11969	18.00	50.00	4.00	130	TiN
859530511	●	-	-	-	3.050	0.12008	18.00	50.00	4.00	130	TiAlN
8595305	●	-	-	-	3.050	0.12008	18.00	50.00	4.00	130	TiN
8595306	●	-	-	-	3.060	0.12047	18.00	50.00	4.00	130	TiN
8595307	●	-	-	-	3.070	0.12087	18.00	50.00	4.00	130	TiN
8595308	●	-	-	-	3.080	0.12126	18.00	50.00	4.00	130	TiN
8595309	●	-	-	-	3.090	0.12165	18.00	50.00	4.00	130	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
6153111	●	-	-	-	3.100	0.12205	18.00	50.00	4.00	130	TiAlN
61531	●	-	-	-	3.100	0.12205	18.00	50.00	4.00	130	TiN
8595311	●	-	-	-	3.110	0.12244	18.00	50.00	4.00	130	TiN
8595312	●	-	-	-	3.120	0.12283	18.00	50.00	4.00	130	TiN
8595313	●	-	-	-	3.130	0.12323	18.00	50.00	4.00	130	TiN
8595314	●	-	-	-	3.140	0.12362	18.00	50.00	4.00	130	TiN
859531511	●	-	-	-	3.150	0.12402	18.00	50.00	4.00	130	TiAlN
8595315	●	-	-	-	3.150	0.12402	18.00	50.00	4.00	130	TiN
8595316	●	-	-	-	3.160	0.12441	18.00	50.00	4.00	130	TiN
8595317	●	-	-	-	3.170	0.12480	18.00	50.00	4.00	130	TiN
859531811	●	-	-	-	3.180	0.12520	18.00	50.00	4.00	130	TiAlN
8595318	●	-	-	-	3.180	0.12520	18.00	50.00	4.00	130	TiN
8595319	●	-	-	-	3.190	0.12559	18.00	50.00	4.00	130	TiN
6153211	●	-	-	-	3.200	0.12598	18.00	50.00	4.00	130	TiAlN
61532	●	-	-	-	3.200	0.12598	18.00	50.00	4.00	130	TiN
8595321	●	-	-	-	3.210	0.12638	18.00	50.00	4.00	130	TiN
859532211	●	-	-	-	3.220	0.12677	18.00	50.00	4.00	130	TiAlN
8595322	●	-	-	-	3.220	0.12677	18.00	50.00	4.00	130	TiN
8595323	●	-	-	-	3.230	0.12717	18.00	50.00	4.00	130	TiN
8595324	●	-	-	-	3.240	0.12756	18.00	50.00	4.00	130	TiN
859532511	●	-	-	-	3.250	0.12795	18.00	50.00	4.00	130	TiAlN
8595325	●	-	-	-	3.250	0.12795	18.00	50.00	4.00	130	TiN
859532611	●	-	-	-	3.260	0.12835	18.00	50.00	4.00	130	TiAlN
8595326	●	-	-	-	3.260	0.12835	18.00	50.00	4.00	130	TiN
859532711	●	-	-	-	3.270	0.12874	18.00	50.00	4.00	130	TiAlN
8595327	●	-	-	-	3.270	0.12874	18.00	50.00	4.00	130	TiN
8595328	●	-	-	-	3.280	0.12913	18.00	50.00	4.00	130	TiN
859532911	●	-	-	-	3.290	0.12953	18.00	50.00	4.00	130	TiAlN
8595329	●	-	-	-	3.290	0.12953	18.00	50.00	4.00	130	TiN
6153311	●	-	-	-	3.300	0.12992	18.00	50.00	4.00	130	TiAlN
61533	●	-	-	-	3.300	0.12992	18.00	50.00	4.00	130	TiN
8595331	●	-	-	-	3.310	0.13031	18.00	50.00	4.00	130	TiN
8595332	●	-	-	-	3.320	0.13071	18.00	50.00	4.00	130	TiN
8595333	●	-	-	-	3.330	0.13110	18.00	50.00	4.00	130	TiN
8595334	●	-	-	-	3.340	0.13150	18.00	50.00	4.00	130	TiN
859533511	●	-	-	-	3.350	0.13189	18.00	50.00	4.00	130	TiAlN
8595335	●	-	-	-	3.350	0.13189	18.00	50.00	4.00	130	TiN
8595336	●	-	-	-	3.360	0.13228	20.00	52.00	4.00	130	TiN
8595337	●	-	-	-	3.370	0.13268	20.00	52.00	4.00	130	TiN
8595338	●	-	-	-	3.380	0.13307	20.00	52.00	4.00	130	TiN
8595339	●	-	-	-	3.390	0.13346	20.00	52.00	4.00	130	TiN
6153411	●	-	-	-	3.400	0.13386	20.00	52.00	4.00	130	TiAlN
61534	●	-	-	-	3.400	0.13386	20.00	52.00	4.00	130	TiN
8595341	●	-	-	-	3.410	0.13425	20.00	52.00	4.00	130	TiN
8595342	●	-	-	-	3.420	0.13465	20.00	52.00	4.00	130	TiN
8595343	●	-	-	-	3.430	0.13504	20.00	52.00	4.00	130	TiN
8595344	●	-	-	-	3.440	0.13543	20.00	52.00	4.00	130	TiN
859534511	●	-	-	-	3.450	0.13583	20.00	52.00	4.00	130	TiAlN
8595345	●	-	-	-	3.450	0.13583	20.00	52.00	4.00	130	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H				
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel				
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium					
Low	Medium	High							6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
1010	1035	1045	1065	4140	4340	300	400	17-4 PH	6061	7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
○	○					○	○	○	○	○							

○ Good ○ Best



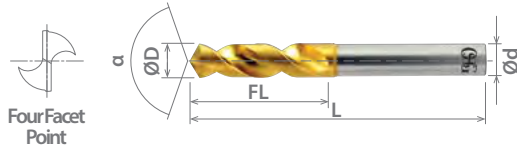




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
859534611	●	-	-	-	3.460	0.13622	20.00	52.00	4.00	130	TiAlN
8595346	●	-	-	-	3.460	0.13622	20.00	52.00	4.00	130	TiN
859534711	●	-	-	-	3.470	0.13661	20.00	52.00	4.00	130	TiAlN
8595347	●	-	-	-	3.470	0.13661	20.00	52.00	4.00	130	TiN
8595348	●	-	-	-	3.480	0.13701	20.00	52.00	4.00	130	TiN
8595349	●	-	-	-	3.490	0.13740	20.00	52.00	4.00	130	TiN
6153511	●	-	-	-	3.500	0.13780	20.00	52.00	4.00	130	TiAlN
61535	●	-	-	-	3.500	0.13780	20.00	52.00	4.00	130	TiN
8595351	●	-	-	-	3.510	0.13819	20.00	52.00	4.00	130	TiN
8595352	●	-	-	-	3.520	0.13858	20.00	52.00	4.00	130	TiN
8595353	●	-	-	-	3.530	0.13898	20.00	52.00	4.00	130	TiN
8595354	●	-	-	-	3.540	0.13937	20.00	52.00	4.00	130	TiN
8595355	●	-	-	-	3.550	0.13976	20.00	52.00	4.00	130	TiN
8595356	●	-	-	-	3.560	0.14016	20.00	52.00	4.00	130	TiN
859535711	●	-	-	-	3.570	0.14055	20.00	52.00	4.00	130	TiAlN
8595357	●	-	-	-	3.570	0.14055	20.00	52.00	4.00	130	TiN
8595358	●	-	-	-	3.580	0.14094	20.00	52.00	4.00	130	TiN
8595359	●	-	-	-	3.590	0.14134	20.00	52.00	4.00	130	TiN
61536	●	-	-	-	3.600	0.14173	20.00	52.00	4.00	130	TiN
8595361	●	-	-	-	3.610	0.14213	20.00	52.00	4.00	130	TiN
8595362	●	-	-	-	3.620	0.14252	20.00	52.00	4.00	130	TiN
8595363	●	-	-	-	3.630	0.14291	20.00	52.00	4.00	130	TiN
8595364	●	-	-	-	3.640	0.14331	20.00	52.00	4.00	130	TiN
8595365	●	-	-	-	3.650	0.14370	20.00	52.00	4.00	130	TiN
859536611	●	-	-	-	3.660	0.14409	20.00	52.00	4.00	130	TiAlN
8595366	●	-	-	-	3.660	0.14409	20.00	52.00	4.00	130	TiN
8595367	●	-	-	-	3.670	0.14449	20.00	52.00	4.00	130	TiN
8595368	●	-	-	-	3.680	0.14488	20.00	52.00	4.00	130	TiN
8595369	●	-	-	-	3.690	0.14528	20.00	52.00	4.00	130	TiN
6153711	●	-	-	-	3.700	0.14567	20.00	52.00	4.00	130	TiAlN
61537	●	-	-	-	3.700	0.14567	20.00	52.00	4.00	130	TiN
8595371	●	-	-	-	3.710	0.14606	20.00	52.00	4.00	130	TiN
8595372	●	-	-	-	3.720	0.14646	20.00	52.00	4.00	130	TiN
859537311	●	-	-	-	3.730	0.14685	20.00	52.00	4.00	130	TiAlN
8595373	●	-	-	-	3.730	0.14685	20.00	52.00	4.00	130	TiN
8595374	●	-	-	-	3.740	0.14724	20.00	52.00	4.00	130	TiN
859537511	●	-	-	-	3.750	0.14764	20.00	52.00	4.00	130	TiAlN
8595375	●	-	-	-	3.750	0.14764	20.00	52.00	4.00	130	TiN
8595376	●	-	-	-	3.760	0.14803	22.00	54.00	4.00	130	TiN
8595377	●	-	-	-	3.770	0.14843	22.00	54.00	4.00	130	TiN
8595378	●	-	-	-	3.780	0.14882	22.00	54.00	4.00	130	TiN
8595379	●	-	-	-	3.790	0.14921	22.00	54.00	4.00	130	TiN
6153811	●	-	-	-	3.800	0.14961	22.00	54.00	4.00	130	TiAlN
61538	●	-	-	-	3.800	0.14961	22.00	54.00	4.00	130	TiN
8595381	●	-	-	-	3.810	0.15000	22.00	54.00	4.00	130	TiN
8595382	●	-	-	-	3.820	0.15039	22.00	54.00	4.00	130	TiN
8595383	●	-	-	-	3.830	0.15079	22.00	54.00	4.00	130	TiN
8595384	●	-	-	-	3.840	0.15118	22.00	54.00	4.00	130	TiN
859538511	●	-	-	-	3.850	0.15157	22.00	54.00	4.00	130	TiAlN
8595385	●	-	-	-	3.850	0.15157	22.00	54.00	4.00	130	TiN
859538611	●	-	-	-	3.860	0.15197	22.00	54.00	4.00	130	TiAlN
8595386	●	-	-	-	3.860	0.15197	22.00	54.00	4.00	130	TiN
8595387	●	-	-	-	3.870	0.15236	22.00	54.00	4.00	130	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595388	●	-	-	-	3.880	0.15276	22.00	54.00	4.00	130	TiN
8595389	●	-	-	-	3.890	0.15315	22.00	54.00	4.00	130	TiN
61539	●	-	-	-	3.900	0.15354	22.00	54.00	4.00	130	TiN
859539111	●	-	-	-	3.910	0.15394	22.00	54.00	4.00	130	TiAlN
8595391	●	-	-	-	3.910	0.15394	22.00	54.00	4.00	130	TiN
8595392	●	-	-	-	3.920	0.15433	22.00	54.00	4.00	130	TiN
8595393	●	-	-	-	3.930	0.15472	22.00	54.00	4.00	130	TiN
8595394	●	-	-	-	3.940	0.15512	22.00	54.00	4.00	130	TiN
859539511	●	-	-	-	3.950	0.15551	22.00	54.00	4.00	130	TiAlN
8595395	●	-	-	-	3.950	0.15551	22.00	54.00	4.00	130	TiN
8595396	●	-	-	-	3.960	0.15591	22.00	54.00	4.00	130	TiN
859539711	●	-	-	-	3.970	0.15630	22.00	54.00	4.00	130	TiAlN
8595397	●	-	-	-	3.970	0.15630	22.00	54.00	4.00	130	TiN
8595398	●	-	-	-	3.980	0.15669	22.00	54.00	4.00	130	TiN
859539911	●	-	-	-	3.990	0.15709	22.00	54.00	4.00	130	TiAlN
8595399	●	-	-	-	3.990	0.15709	22.00	54.00	4.00	130	TiN
6154011	●	-	-	-	4.000	0.15748	22.00	54.00	4.00	130	TiAlN
61540	●	-	-	-	4.000	0.15748	22.00	54.00	4.00	130	TiN
8595401	●	-	-	-	4.010	0.15787	22.00	66.00	6.00	120	TiN
8595402	●	-	-	-	4.020	0.15827	22.00	66.00	6.00	120	TiN
8595403	●	-	-	-	4.030	0.15866	22.00	66.00	6.00	120	TiN
859540411	●	-	-	-	4.040	0.15906	22.00	66.00	6.00	120	TiAlN
8595404	●	-	-	-	4.040	0.15906	22.00	66.00	6.00	120	TiN
8595405	●	-	-	-	4.050	0.15945	22.00	66.00	6.00	120	TiN
8595406	●	-	-	-	4.060	0.15984	22.00	66.00	6.00	120	TiN
8595407	●	-	-	-	4.070	0.16024	22.00	66.00	6.00	120	TiN
8595408	●	-	-	-	4.080	0.16063	22.00	66.00	6.00	120	TiN
859540911	●	-	-	-	4.090	0.16102	22.00	66.00	6.00	120	TiAlN
8595409	●	-	-	-	4.090	0.16102	22.00	66.00	6.00	120	TiN
6154111	●	-	-	-	4.100	0.16142	22.00	66.00	6.00	120	TiAlN
61541	●	-	-	-	4.100	0.16142	22.00	66.00	6.00	120	TiN
8595411	●	-	-	-	4.110	0.16181	22.00	66.00	6.00	120	TiN
8595412	●	-	-	-	4.120	0.16220	22.00	66.00	6.00	120	TiN
8595413	●	-	-	-	4.130	0.16260	22.00	66.00	6.00	120	TiN
8595414	●	-	-	-	4.140	0.16299	22.00	66.00	6.00	120	TiN
859541511	●	-	-	-	4.150	0.16339	22.00	66.00	6.00	120	TiAlN
8595415	●	-	-	-	4.150	0.16339	22.00	66.00	6.00	120	TiN
8595416	●	-	-	-	4.160	0.16378	22.00	66.00	6.00	120	TiN
859541711	●	-	-	-	4.170	0.16417	22.00	66.00	6.00	120	TiAlN
8595417	●	-	-	-	4.170	0.16417	22.00	66.00	6.00	120	TiN
8595418	●	-	-	-	4.180	0.16457	22.00	66.00	6.00	120	TiN
8595419	●	-	-	-	4.190	0.16496	22.00	66.00	6.00	120	TiN
6154211	●	-	-	-	4.200	0.16535	22.00	66.00	6.00	120	TiAlN
61542	●	-	-	-	4.200	0.16535	22.00	66.00	6.00	120	TiN
8595421	●	-	-	-	4.210	0.16575	22.00	66.00	6.00	120	TiN
859542211	●	-	-	-	4.220	0.16614	22.00	66.00	6.00	120	TiAlN
8595422	●	-	-	-	4.220	0.16614	22.00	66.00	6.00	120	TiN
8595423	●	-	-	-	4.230	0.16654	22.00	66.00	6.00	120	TiN
8595424	●	-	-	-	4.240	0.16693	22.00	66.00	6.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
Low	Medium	High							6061	7075						
1010	1035	1045	1065	4140	4340	○	○	○	○	○						
1018	1045	1065				○	○	○	○	○						

○ Good ○ Best



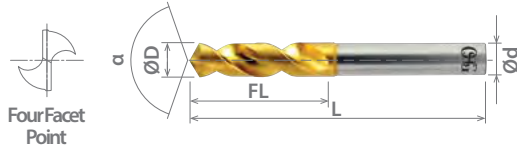


## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015



ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595425	●	-	-	-	4.250	0.16732	22.00	66.00	6.00	120	TiN
8595426	●	-	-	-	4.260	0.16772	24.00	68.00	6.00	120	TiN
8595427	●	-	-	-	4.270	0.16811	24.00	68.00	6.00	120	TiN
8595428	●	-	-	-	4.280	0.16850	24.00	68.00	6.00	120	TiN
8595429	●	-	-	-	4.290	0.16890	24.00	68.00	6.00	120	TiN
6154311	●	-	-	-	4.300	0.16929	24.00	68.00	6.00	120	TiAlN
61543	●	-	-	-	4.300	0.16929	24.00	68.00	6.00	120	TiN
8595431	●	-	-	-	4.310	0.16969	24.00	68.00	6.00	120	TiN
8595432	●	-	-	-	4.320	0.17008	24.00	68.00	6.00	120	TiN
859543311	●	-	-	-	4.330	0.17047	24.00	68.00	6.00	120	TiAlN
8595433	●	-	-	-	4.330	0.17047	24.00	68.00	6.00	120	TiN
8595434	●	-	-	-	4.340	0.17087	24.00	68.00	6.00	120	TiN
8595435	●	-	-	-	4.350	0.17126	24.00	68.00	6.00	120	TiN
8595436	●	-	-	-	4.360	0.17165	24.00	68.00	6.00	120	TiN
859543711	●	-	-	-	4.370	0.17205	24.00	68.00	6.00	120	TiAlN
8595437	●	-	-	-	4.370	0.17205	24.00	68.00	6.00	120	TiN
8595438	●	-	-	-	4.380	0.17244	24.00	68.00	6.00	120	TiN
8595439	●	-	-	-	4.390	0.17283	24.00	68.00	6.00	120	TiN
6154411	●	-	-	-	4.400	0.17323	24.00	68.00	6.00	120	TiAlN
61544	●	-	-	-	4.400	0.17323	24.00	68.00	6.00	120	TiN
859544111	●	-	-	-	4.410	0.17362	24.00	68.00	6.00	120	TiAlN
8595441	●	-	-	-	4.410	0.17362	24.00	68.00	6.00	120	TiN
8595442	●	-	-	-	4.420	0.17402	24.00	68.00	6.00	120	TiN
8595443	●	-	-	-	4.430	0.17441	24.00	68.00	6.00	120	TiN
8595444	●	-	-	-	4.440	0.17480	24.00	68.00	6.00	120	TiN
859544511	●	-	-	-	4.450	0.17520	24.00	68.00	6.00	120	TiAlN
8595445	●	-	-	-	4.450	0.17520	24.00	68.00	6.00	120	TiN
8595446	●	-	-	-	4.460	0.17559	24.00	68.00	6.00	120	TiN
8595447	●	-	-	-	4.470	0.17598	24.00	68.00	6.00	120	TiN
8595448	●	-	-	-	4.480	0.17638	24.00	68.00	6.00	120	TiN
8595449	●	-	-	-	4.490	0.17677	24.00	68.00	6.00	120	TiN
6154511	●	-	-	-	4.500	0.17717	24.00	68.00	6.00	120	TiAlN
61545	●	-	-	-	4.500	0.17717	24.00	68.00	6.00	120	TiN
8595451	●	-	-	-	4.510	0.17756	24.00	68.00	6.00	120	TiN
8595452	●	-	-	-	4.520	0.17795	24.00	68.00	6.00	120	TiN
8595453	●	-	-	-	4.530	0.17835	24.00	68.00	6.00	120	TiN
8595454	●	-	-	-	4.540	0.17874	24.00	68.00	6.00	120	TiN
8595455	●	-	-	-	4.550	0.17913	24.00	68.00	6.00	120	TiN
8595456	●	-	-	-	4.560	0.17953	24.00	68.00	6.00	120	TiN
859545711	●	-	-	-	4.570	0.17992	24.00	68.00	6.00	120	TiAlN
8595457	●	-	-	-	4.570	0.17992	24.00	68.00	6.00	120	TiN
8595458	●	-	-	-	4.580	0.18031	24.00	68.00	6.00	120	TiN
8595459	●	-	-	-	4.590	0.18071	24.00	68.00	6.00	120	TiN
6154611	●	-	-	-	4.600	0.18110	24.00	68.00	6.00	120	TiAlN
61546	●	-	-	-	4.600	0.18110	24.00	68.00	6.00	120	TiN
8595461	●	-	-	-	4.610	0.18150	24.00	68.00	6.00	120	TiN
859546211	●	-	-	-	4.620	0.18189	24.00	68.00	6.00	120	TiAlN
8595462	●	-	-	-	4.620	0.18189	24.00	68.00	6.00	120	TiN
8595463	●	-	-	-	4.630	0.18228	24.00	68.00	6.00	120	TiN
8595464	●	-	-	-	4.640	0.18268	24.00	68.00	6.00	120	TiN
8595465	●	-	-	-	4.650	0.18307	24.00	68.00	6.00	120	TiN
8595466	●	-	-	-	4.660	0.18346	24.00	68.00	6.00	120	TiN
8595467	●	-	-	-	4.670	0.18386	24.00	68.00	6.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595468	●	-	-	-	4.680	0.18425	24.00	68.00	6.00	120	TiN
8595469	●	-	-	-	4.690	0.18465	24.00	68.00	6.00	120	TiN
6154711	●	-	-	-	4.700	0.18504	24.00	68.00	6.00	120	TiAlN
61547	●	-	-	-	4.700	0.18504	24.00	68.00	6.00	120	TiN
8595471	●	-	-	-	4.710	0.18543	24.00	68.00	6.00	120	TiN
8595472	●	-	-	-	4.720	0.18583	24.00	68.00	6.00	120	TiN
8595473	●	-	-	-	4.730	0.18622	24.00	68.00	6.00	120	TiN
8595474	●	-	-	-	4.740	0.18661	24.00	68.00	6.00	120	TiN
859547511	●	-	-	-	4.750	0.18701	24.00	68.00	6.00	120	TiAlN
8595475	●	-	-	-	4.750	0.18701	24.00	68.00	6.00	120	TiN
859547611	●	-	-	-	4.760	0.18740	26.00	70.00	6.00	120	TiAlN
8595476	●	-	-	-	4.760	0.18740	26.00	70.00	6.00	120	TiN
8595477	●	-	-	-	4.770	0.18780	26.00	70.00	6.00	120	TiN
8595478	●	-	-	-	4.780	0.18819	26.00	70.00	6.00	120	TiN
8595479	●	-	-	-	4.790	0.18858	26.00	70.00	6.00	120	TiN
6154811	●	-	-	-	4.800	0.18898	26.00	70.00	6.00	120	TiAlN
61548	●	-	-	-	4.800	0.18898	26.00	70.00	6.00	120	TiN
8595481	●	-	-	-	4.810	0.18937	26.00	70.00	6.00	120	TiN
8595482	●	-	-	-	4.820	0.18976	26.00	70.00	6.00	120	TiN
8595483	●	-	-	-	4.830	0.19016	26.00	70.00	6.00	120	TiN
8595484	●	-	-	-	4.840	0.19055	26.00	70.00	6.00	120	TiN
8595485	●	-	-	-	4.850	0.19094	26.00	70.00	6.00	120	TiN
859548611	●	-	-	-	4.860	0.19134	26.00	70.00	6.00	120	TiAlN
8595486	●	-	-	-	4.860	0.19134	26.00	70.00	6.00	120	TiN
859548711	●	-	-	-	4.870	0.19173	26.00	70.00	6.00	120	TiAlN
8595487	●	-	-	-	4.870	0.19173	26.00	70.00	6.00	120	TiN
859548811	●	-	-	-	4.880	0.19213	26.00	70.00	6.00	120	TiAlN
8595488	●	-	-	-	4.880	0.19213	26.00	70.00	6.00	120	TiN
8595489	●	-	-	-	4.890	0.19252	26.00	70.00	6.00	120	TiN
6154911	●	-	-	-	4.900	0.19291	26.00	70.00	6.00	120	TiAlN
61549	●	-	-	-	4.900	0.19291	26.00	70.00	6.00	120	TiN
8595491	●	-	-	-	4.910	0.19331	26.00	70.00	6.00	120	TiN
8595492	●	-	-	-	4.920	0.19370	26.00	70.00	6.00	120	TiN
8595493	●	-	-	-	4.930	0.19409	26.00	70.00	6.00	120	TiN
8595494	●	-	-	-	4.940	0.19449	26.00	70.00	6.00	120	TiN
8595495	●	-	-	-	4.950	0.19488	26.00	70.00	6.00	120	TiN
859549611	●	-	-	-	4.960	0.19528	26.00	70.00	6.00	120	TiAlN
8595496	●	-	-	-	4.960	0.19528	26.00	70.00	6.00	120	TiN
8595497	●	-	-	-	4.970	0.19567	26.00	70.00	6.00	120	TiN
859549811	●	-	-	-	4.980	0.19606	26.00	70.00	6.00	120	TiAlN
8595498	●	-	-	-	4.980	0.19606	26.00	70.00	6.00	120	TiN
8595499	●	-	-	-	4.990	0.19646	26.00	70.00	6.00	120	TiN
6155011	●	-	-	-	5.000	0.19685	26.00	70.00	6.00	120	TiAlN
61550	●	-	-	-	5.000	0.19685	26.00	70.00	6.00	120	TiN
8595501	●	-	-	-	5.010	0.19724	26.00	70.00	6.00	120	TiN
8595502	●	-	-	-	5.020	0.19764	26.00	70.00	6.00	120	TiN
8595503	●	-	-	-	5.030	0.19803	26.00	70.00	6.00	120	TiN
8595504	●	-	-	-	5.040	0.19843	26.00	70.00	6.00	120	TiN
859550511	●	-	-	-	5.050	0.19882	26.00	70.00	6.00	120	TiAlN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium				
Low	Medium	High			300	400	17-4 PH		6061	7075			Casting	Inconel	6Al4V (30 HRC)	~35 HRC
1010	1035	1065	4140	4340	○	○	○	○	○	○						
1018	1045				○	○	○	○	○	○						

○ Good ○ Best

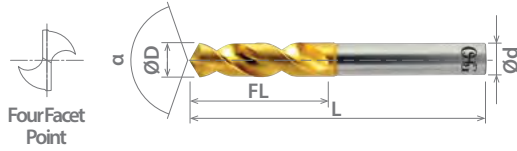




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595505	●	-	-	-	5.050	0.19882	26.00	70.00	6.00	120	TiN
8595506	●	-	-	-	5.060	0.19921	26.00	70.00	6.00	120	TiN
8595507	●	-	-	-	5.070	0.19961	26.00	70.00	6.00	120	TiN
8595508	●	-	-	-	5.080	0.20000	26.00	70.00	6.00	120	TiN
8595509	●	-	-	-	5.090	0.20039	26.00	70.00	6.00	120	TiN
6155111	●	-	-	-	5.100	0.20079	26.00	70.00	6.00	120	TiAlN
61551	●	-	-	-	5.100	0.20079	26.00	70.00	6.00	120	TiN
859551111	●	-	-	-	5.110	0.20118	26.00	70.00	6.00	120	TiAlN
8595511	●	-	-	-	5.110	0.20118	26.00	70.00	6.00	120	TiN
8595512	●	-	-	-	5.120	0.20157	26.00	70.00	6.00	120	TiN
8595513	●	-	-	-	5.130	0.20197	26.00	70.00	6.00	120	TiN
8595514	●	-	-	-	5.140	0.20236	26.00	70.00	6.00	120	TiN
8595515	●	-	-	-	5.150	0.20276	26.00	70.00	6.00	120	TiN
859551611	●	-	-	-	5.160	0.20315	26.00	70.00	6.00	120	TiAlN
8595516	●	-	-	-	5.160	0.20315	26.00	70.00	6.00	120	TiN
8595517	●	-	-	-	5.170	0.20354	26.00	70.00	6.00	120	TiN
859551811	●	-	-	-	5.180	0.20394	26.00	70.00	6.00	120	TiAlN
8595518	●	-	-	-	5.180	0.20394	26.00	70.00	6.00	120	TiN
8595519	●	-	-	-	5.190	0.20433	26.00	70.00	6.00	120	TiN
6155211	●	-	-	-	5.200	0.20472	26.00	70.00	6.00	120	TiAlN
61552	●	-	-	-	5.200	0.20472	26.00	70.00	6.00	120	TiN
8595521	●	-	-	-	5.210	0.20512	26.00	70.00	6.00	120	TiN
859552211	●	-	-	-	5.220	0.20551	26.00	70.00	6.00	120	TiAlN
8595522	●	-	-	-	5.220	0.20551	26.00	70.00	6.00	120	TiN
8595523	●	-	-	-	5.230	0.20591	26.00	70.00	6.00	120	TiN
8595524	●	-	-	-	5.240	0.20630	26.00	70.00	6.00	120	TiN
8595525	●	-	-	-	5.250	0.20669	26.00	70.00	6.00	120	TiN
8595526	●	-	-	-	5.260	0.20709	26.00	70.00	6.00	120	TiN
8595527	●	-	-	-	5.270	0.20748	26.00	70.00	6.00	120	TiN
8595528	●	-	-	-	5.280	0.20787	26.00	70.00	6.00	120	TiN
8595529	●	-	-	-	5.290	0.20827	26.00	70.00	6.00	120	TiN
6155311	●	-	-	-	5.300	0.20866	26.00	70.00	6.00	120	TiAlN
61553	●	-	-	-	5.300	0.20866	26.00	70.00	6.00	120	TiN
8595531	●	-	-	-	5.310	0.20906	28.00	72.00	6.00	120	TiN
8595532	●	-	-	-	5.320	0.20945	28.00	72.00	6.00	120	TiN
8595533	●	-	-	-	5.330	0.20984	28.00	72.00	6.00	120	TiN
8595534	●	-	-	-	5.340	0.21024	28.00	72.00	6.00	120	TiN
8595535	●	-	-	-	5.350	0.21063	28.00	72.00	6.00	120	TiN
8595536	●	-	-	-	5.360	0.21102	28.00	72.00	6.00	120	TiN
8595537	●	-	-	-	5.370	0.21142	28.00	72.00	6.00	120	TiN
8595538	●	-	-	-	5.380	0.21181	28.00	72.00	6.00	120	TiN
8595539	●	-	-	-	5.390	0.21220	28.00	72.00	6.00	120	TiN
61554	●	-	-	-	5.400	0.21260	28.00	72.00	6.00	120	TiN
8595541	●	-	-	-	5.410	0.21299	28.00	72.00	6.00	120	TiN
8595542	●	-	-	-	5.420	0.21339	28.00	72.00	6.00	120	TiN
8595543	●	-	-	-	5.430	0.21378	28.00	72.00	6.00	120	TiN
8595544	●	-	-	-	5.440	0.21417	28.00	72.00	6.00	120	TiN
859554511	●	-	-	-	5.450	0.21457	28.00	72.00	6.00	120	TiAlN
8595545	●	-	-	-	5.450	0.21457	28.00	72.00	6.00	120	TiN
8595546	●	-	-	-	5.460	0.21496	28.00	72.00	6.00	120	TiN
8595547	●	-	-	-	5.470	0.21535	28.00	72.00	6.00	120	TiN
859554811	●	-	-	-	5.480	0.21575	28.00	72.00	6.00	120	TiAlN
8595548	●	-	-	-	5.480	0.21575	28.00	72.00	6.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (mm)	α	
8595549	●	-	-	-	5.490	0.21614	28.00	72.00	6.00	120	TiN
6155511	●	-	-	-	5.500	0.21654	28.00	72.00	6.00	120	TiAlN
61555	●	-	-	-	5.500	0.21654	28.00	72.00	6.00	120	TiN
8595551	●	-	-	-	5.510	0.21693	28.00	72.00	6.00	120	TiN
8595552	●	-	-	-	5.520	0.21732	28.00	72.00	6.00	120	TiN
8595553	●	-	-	-	5.530	0.21772	28.00	72.00	6.00	120	TiN
8595554	●	-	-	-	5.540	0.21811	28.00	72.00	6.00	120	TiN
8595555	●	-	-	-	5.550	0.21850	28.00	72.00	6.00	120	TiN
859555611	●	-	-	-	5.560	0.21890	28.00	72.00	6.00	120	TiAlN
8595556	●	-	-	-	5.560	0.21890	28.00	72.00	6.00	120	TiN
8595557	●	-	-	-	5.570	0.21929	28.00	72.00	6.00	120	TiN
8595558	●	-	-	-	5.580	0.21969	28.00	72.00	6.00	120	TiN
8595559	●	-	-	-	5.590	0.22008	28.00	72.00	6.00	120	TiN
6155611	●	-	-	-	5.600	0.22047	28.00	72.00	6.00	120	TiAlN
61556	●	-	-	-	5.600	0.22047	28.00	72.00	6.00	120	TiN
8595561	●	-	-	-	5.610	0.22087	28.00	72.00	6.00	120	TiN
8595562	●	-	-	-	5.620	0.22126	28.00	72.00	6.00	120	TiN
8595563	●	-	-	-	5.630	0.22165	28.00	72.00	6.00	120	TiN
8595564	●	-	-	-	5.640	0.22205	28.00	72.00	6.00	120	TiN
859556511	●	-	-	-	5.650	0.22244	28.00	72.00	6.00	120	TiAlN
8595565	●	-	-	-	5.650	0.22244	28.00	72.00	6.00	120	TiN
8595566	●	-	-	-	5.660	0.22283	28.00	72.00	6.00	120	TiN
8595567	●	-	-	-	5.670	0.22323	28.00	72.00	6.00	120	TiN
8595568	●	-	-	-	5.680	0.22362	28.00	72.00	6.00	120	TiN
8595569	●	-	-	-	5.690	0.22402	28.00	72.00	6.00	120	TiN
61557	●	-	-	-	5.700	0.22441	28.00	72.00	6.00	120	TiN
8595571	●	-	-	-	5.710	0.22480	28.00	72.00	6.00	120	TiN
859557211	●	-	-	-	5.720	0.22520	28.00	72.00	6.00	120	TiAlN
8595572	●	-	-	-	5.720	0.22520	28.00	72.00	6.00	120	TiN
8595573	●	-	-	-	5.730	0.22559	28.00	72.00	6.00	120	TiN
8595574	●	-	-	-	5.740	0.22598	28.00	72.00	6.00	120	TiN
859557511	●	-	-	-	5.750	0.22638	28.00	72.00	6.00	120	TiAlN
8595575	●	-	-	-	5.750	0.22638	28.00	72.00	6.00	120	TiN
8595576	●	-	-	-	5.760	0.22677	28.00	72.00	6.00	120	TiN
8595577	●	-	-	-	5.770	0.22717	28.00	72.00	6.00	120	TiN
859557811	●	-	-	-	5.780	0.22756	28.00	72.00	6.00	120	TiAlN
8595578	●	-	-	-	5.780	0.22756	28.00	72.00	6.00	120	TiN
859557911	●	-	-	-	5.790	0.22795	28.00	72.00	6.00	120	TiAlN
8595579	●	-	-	-	5.790	0.22795	28.00	72.00	6.00	120	TiN
6155811	●	-	-	-	5.800	0.22835	28.00	72.00	6.00	120	TiAlN
61558	●	-	-	-	5.800	0.22835	28.00	72.00	6.00	120	TiN
8595581	●	-	-	-	5.810	0.22874	28.00	72.00	6.00	120	TiN
8595582	●	-	-	-	5.820	0.22913	28.00	72.00	6.00	120	TiN
8595583	●	-	-	-	5.830	0.22953	28.00	72.00	6.00	120	TiN
8595584	●	-	-	-	5.840	0.22992	28.00	72.00	6.00	120	TiN
8595585	●	-	-	-	5.850	0.23031	28.00	72.00	6.00	120	TiN
8595586	●	-	-	-	5.860	0.23071	28.00	72.00	6.00	120	TiN
8595587	●	-	-	-	5.870	0.23110	28.00	72.00	6.00	120	TiN
8595588	●	-	-	-	5.880	0.23150	28.00	72.00	6.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H						
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel						
Carbon Steel			Alloy Steel	Die Steel					Aluminum	Nickel Alloy	Titanium								
Low	Medium	High			300	400	17-4 PH					6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035		4140																
1018	1045	1065	4340																

○ Good ● Best



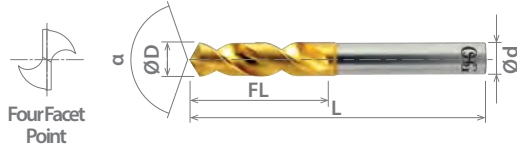




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595589	●	-	-	-	5.890	0.23189	28.00	72.00	6.00	120	TiN
6155911	●	-	-	-	5.900	0.23228	28.00	72.00	6.00	120	TiAlN
61559	●	-	-	-	5.900	0.23228	28.00	72.00	6.00	120	TiN
8595591	●	-	-	-	5.910	0.23268	28.00	72.00	6.00	120	TiN
8595592	●	-	-	-	5.920	0.23307	28.00	72.00	6.00	120	TiN
8595593	●	-	-	-	5.930	0.23346	28.00	72.00	6.00	120	TiN
8595594	●	-	-	-	5.940	0.23386	28.00	72.00	6.00	120	TiN
859559511	●	-	-	-	5.950	0.23425	28.00	72.00	6.00	120	TiAlN
8595595	●	-	-	-	5.950	0.23425	28.00	72.00	6.00	120	TiN
8595596	●	-	-	-	5.960	0.23465	28.00	72.00	6.00	120	TiN
859559711	●	-	-	-	5.970	0.23504	28.00	72.00	6.00	120	TiAlN
8595597	●	-	-	-	5.970	0.23504	28.00	72.00	6.00	120	TiN
8595598	●	-	-	-	5.980	0.23543	28.00	72.00	6.00	120	TiN
8595599	●	-	-	-	5.990	0.23583	28.00	72.00	6.00	120	TiN
6156011	●	-	-	-	6.000	0.23622	28.00	72.00	6.00	120	TiAlN
61560	●	-	-	-	6.000	0.23622	28.00	72.00	6.00	120	TiN
8595605	●	-	-	-	6.050	0.23819	31.00	75.00	8.00	120	TiN
6156111	●	-	-	-	6.100	0.24016	31.00	75.00	8.00	120	TiAlN
61561	●	-	-	-	6.100	0.24016	31.00	75.00	8.00	120	TiN
8595615	●	-	-	-	6.150	0.24213	31.00	75.00	8.00	120	TiN
61562	●	-	-	-	6.200	0.24409	31.00	75.00	8.00	120	TiN
8595625	●	-	-	-	6.250	0.24606	31.00	75.00	8.00	120	TiN
6156311	●	-	-	-	6.300	0.24803	31.00	75.00	8.00	120	TiAlN
61563	●	-	-	-	6.300	0.24803	31.00	75.00	8.00	120	TiN
859563511	●	1/4	-	E	6.350	0.25000	31.00	75.00	8.00	120	TiAlN
8595635	●	1/4	-	E	6.350	0.25000	31.00	75.00	8.00	120	TiN
6156411	●	-	-	-	6.400	0.25197	31.00	75.00	8.00	120	TiAlN
61564	●	-	-	-	6.400	0.25197	31.00	75.00	8.00	120	TiN
8595645	●	-	-	-	6.450	0.25394	31.00	75.00	8.00	120	TiN
6156511	●	-	-	-	6.500	0.25591	31.00	75.00	8.00	120	TiAlN
61565	●	-	-	-	6.500	0.25591	31.00	75.00	8.00	120	TiN
859565511	●	-	-	-	6.550	0.25787	31.00	75.00	8.00	120	TiAlN
8595655	●	-	-	-	6.550	0.25787	31.00	75.00	8.00	120	TiN
6156611	●	-	-	-	6.600	0.25984	31.00	75.00	8.00	120	TiAlN
61566	●	-	-	-	6.600	0.25984	31.00	75.00	8.00	120	TiN
8595665	●	-	-	-	6.650	0.26181	31.00	75.00	8.00	120	TiN
6156711	●	-	-	-	6.700	0.26378	31.00	75.00	8.00	120	TiAlN
61567	●	-	-	-	6.700	0.26378	31.00	75.00	8.00	120	TiN
859567511	●	-	-	-	6.750	0.26575	34.00	78.00	8.00	120	TiAlN
8595675	●	-	-	-	6.750	0.26575	34.00	78.00	8.00	120	TiN
6156811	●	-	-	-	6.800	0.26772	34.00	78.00	8.00	120	TiAlN
61568	●	-	-	-	6.800	0.26772	34.00	78.00	8.00	120	TiN
859568511	●	-	-	-	6.850	0.26969	34.00	78.00	8.00	120	TiAlN
8595685	●	-	-	-	6.850	0.26969	34.00	78.00	8.00	120	TiN
6156911	●	-	-	-	6.900	0.27165	34.00	78.00	8.00	120	TiAlN
61569	●	-	-	-	6.900	0.27165	34.00	78.00	8.00	120	TiN
8595695	●	-	-	-	6.950	0.27362	34.00	78.00	8.00	120	TiN
6157011	●	-	-	-	7.000	0.27559	34.00	78.00	8.00	120	TiAlN
61570	●	-	-	-	7.000	0.27559	34.00	78.00	8.00	120	TiN
8595705	●	-	-	-	7.050	0.27756	34.00	78.00	8.00	120	TiN
6157111	●	-	-	-	7.100	0.27953	34.00	78.00	8.00	120	TiAlN
61571	●	-	-	-	7.100	0.27953	34.00	78.00	8.00	120	TiN
859571511	●	-	-	-	7.150	0.28150	34.00	78.00	8.00	120	TiAlN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
8595715	●	-	-	-	7.150	0.28150	34.00	78.00	8.00	120	TiN
6157211	●	-	-	-	7.200	0.28346	34.00	78.00	8.00	120	TiAlN
61572	●	-	-	-	7.200	0.28346	34.00	78.00	8.00	120	TiN
8595725	●	-	-	-	7.250	0.28543	34.00	78.00	8.00	120	TiN
6157311	●	-	-	-	7.300	0.28740	34.00	78.00	8.00	120	TiAlN
61573	●	-	-	-	7.300	0.28740	34.00	78.00	8.00	120	TiN
8595735	●	-	-	-	7.350	0.28937	34.00	78.00	8.00	120	TiN
6157411	●	-	-	-	7.400	0.29134	34.00	78.00	8.00	120	TiAlN
61574	●	-	-	-	7.400	0.29134	34.00	78.00	8.00	120	TiN
8595745	●	-	-	-	7.450	0.29331	34.00	78.00	8.00	120	TiN
6157511	●	-	-	-	7.500	0.29528	34.00	78.00	8.00	120	TiAlN
61575	●	-	-	-	7.500	0.29528	34.00	78.00	8.00	120	TiN
859575511	●	-	-	-	7.550	0.29724	37.00	81.00	8.00	120	TiAlN
8595755	●	-	-	-	7.550	0.29724	37.00	81.00	8.00	120	TiN
61576	●	-	-	-	7.600	0.29921	37.00	81.00	8.00	120	TiN
859576511	●	-	-	-	7.650	0.30118	37.00	81.00	8.00	120	TiAlN
8595765	●	-	-	-	7.650	0.30118	37.00	81.00	8.00	120	TiN
6157711	●	-	-	-	7.700	0.30315	37.00	81.00	8.00	120	TiAlN
61577	●	-	-	-	7.700	0.30315	37.00	81.00	8.00	120	TiN
859577511	●	-	-	-	7.750	0.30512	37.00	81.00	8.00	120	TiAlN
8595775	●	-	-	-	7.750	0.30512	37.00	81.00	8.00	120	TiN
61578	●	-	-	-	7.800	0.30709	37.00	81.00	8.00	120	TiN
8595785	●	-	-	-	7.850	0.30906	37.00	81.00	8.00	120	TiN
6157911	●	-	-	-	7.900	0.31102	37.00	81.00	8.00	120	TiAlN
61579	●	-	-	-	7.900	0.31102	37.00	81.00	8.00	120	TiN
859579511	●	-	-	-	7.950	0.31299	37.00	81.00	8.00	120	TiAlN
8595795	●	-	-	-	7.950	0.31299	37.00	81.00	8.00	120	TiN
6158011	●	-	-	-	8.000	0.31496	37.00	81.00	8.00	120	TiAlN
61580	●	-	-	-	8.000	0.31496	37.00	81.00	8.00	120	TiN
8595805	●	-	-	-	8.050	0.31693	37.00	87.00	10.00	120	TiN
6158111	●	-	-	-	8.100	0.31890	37.00	87.00	10.00	120	TiAlN
61581	●	-	-	-	8.100	0.31890	37.00	87.00	10.00	120	TiN
8595815	●	-	-	-	8.150	0.32087	37.00	87.00	10.00	120	TiN
6158211	●	-	-	-	8.200	0.32283	37.00	87.00	10.00	120	TiAlN
61582	●	-	-	-	8.200	0.32283	37.00	87.00	10.00	120	TiN
8595825	●	-	-	-	8.250	0.32480	37.00	87.00	10.00	120	TiN
6158311	●	-	-	-	8.300	0.32677	37.00	87.00	10.00	120	TiAlN
61583	●	-	-	-	8.300	0.32677	37.00	87.00	10.00	120	TiN
859583511	●	-	-	-	8.350	0.32874	37.00	87.00	10.00	120	TiAlN
8595835	●	-	-	-	8.350	0.32874	37.00	87.00	10.00	120	TiN
61584	●	-	-	-	8.400	0.33071	37.00	87.00	10.00	120	TiN
8595845	●	-	-	-	8.450	0.33268	37.00	87.00	10.00	120	TiN
6158511	●	-	-	-	8.500	0.33465	37.00	87.00	10.00	120	TiAlN
61585	●	-	-	-	8.500	0.33465	37.00	87.00	10.00	120	TiN
8595855	●	-	-	-	8.550	0.33661	40.00	90.00	10.00	120	TiN
6158611	●	-	-	-	8.600	0.33858	40.00	90.00	10.00	120	TiAlN
61586	●	-	-	-	8.600	0.33858	40.00	90.00	10.00	120	TiN
8595865	●	-	-	-	8.650	0.34055	40.00	90.00	10.00	120	TiN
61587	●	-	-	-	8.700	0.34252	40.00	90.00	10.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H						
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel						
Carbon Steel			Alloy Steel	Die Steel	Aluminum		Nickel Alloy		Titanium										
Low	Medium	High			300	400				17-4 PH	6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
1010	1018	1035	1045	1065	4140	4340													
○	○						○	○	○	○	○								

○ Good ○ Best

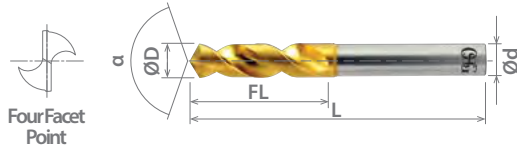




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
859587511	●	-	-	-	8.750	0.34449	40.00	90.00	10.00	120	TiAlN
8595875	●	-	-	-	8.750	0.34449	40.00	90.00	10.00	120	TiN
6158811	●	-	-	-	8.800	0.34646	40.00	90.00	10.00	120	TiAlN
61588	●	-	-	-	8.800	0.34646	40.00	90.00	10.00	120	TiN
8595885	●	-	-	-	8.850	0.34843	40.00	90.00	10.00	120	TiN
61589	●	-	-	-	8.900	0.35039	40.00	90.00	10.00	120	TiN
8595895	●	-	-	-	8.950	0.35236	40.00	90.00	10.00	120	TiN
6159011	●	-	-	-	9.000	0.35433	40.00	90.00	10.00	120	TiAlN
61590	●	-	-	-	9.000	0.35433	40.00	90.00	10.00	120	TiN
8595905	●	-	-	-	9.050	0.35630	40.00	90.00	10.00	120	TiN
61591	●	-	-	-	9.100	0.35827	40.00	90.00	10.00	120	TiN
8595915	●	-	-	-	9.150	0.36024	40.00	90.00	10.00	120	TiN
61592	●	-	-	-	9.200	0.36220	40.00	90.00	10.00	120	TiN
8595925	●	-	-	-	9.250	0.36417	40.00	90.00	10.00	120	TiN
61593	●	-	-	-	9.300	0.36614	40.00	90.00	10.00	120	TiN
8595935	●	-	-	-	9.350	0.36811	40.00	90.00	10.00	120	TiN
61594	●	-	-	-	9.400	0.37008	40.00	90.00	10.00	120	TiN
8595945	●	-	-	-	9.450	0.37205	40.00	90.00	10.00	120	TiN
6159511	●	-	-	-	9.500	0.37402	40.00	90.00	10.00	120	TiAlN
61595	●	-	-	-	9.500	0.37402	40.00	90.00	10.00	120	TiN
8595955	●	-	-	-	9.550	0.37598	43.00	93.00	10.00	120	TiN
6159611	●	-	-	-	9.600	0.37795	43.00	93.00	10.00	120	TiAlN
61596	●	-	-	-	9.600	0.37795	43.00	93.00	10.00	120	TiN
859596511	●	-	-	-	9.650	0.37992	43.00	93.00	10.00	120	TiAlN
8595965	●	-	-	-	9.650	0.37992	43.00	93.00	10.00	120	TiN
61597	●	-	-	-	9.700	0.38189	43.00	93.00	10.00	120	TiN
8595975	●	-	-	-	9.750	0.38386	43.00	93.00	10.00	120	TiN
6159811	●	-	-	-	9.800	0.38583	43.00	93.00	10.00	120	TiAlN
61598	●	-	-	-	9.800	0.38583	43.00	93.00	10.00	120	TiN
8595985	●	-	-	-	9.850	0.38780	43.00	93.00	10.00	120	TiN
6159911	●	-	-	-	9.900	0.38976	43.00	93.00	10.00	120	TiAlN
61599	●	-	-	-	9.900	0.38976	43.00	93.00	10.00	120	TiN
8595995	●	-	-	-	9.950	0.39173	43.00	93.00	10.00	120	TiN
6160011	●	-	-	-	10.000	0.39370	43.00	93.00	10.00	120	TiAlN
61600	●	-	-	-	10.000	0.39370	43.00	93.00	10.00	120	TiN
8596005	●	-	-	-	10.050	0.39567	43.00	100.00	12.00	120	TiN
61601	●	-	-	-	10.100	0.39764	43.00	100.00	12.00	120	TiN
859601511	●	-	-	-	10.150	0.39961	43.00	100.00	12.00	120	TiAlN
8596015	●	-	-	-	10.150	0.39961	43.00	100.00	12.00	120	TiN
6160211	●	-	-	-	10.200	0.40157	43.00	100.00	12.00	120	TiAlN
61602	●	-	-	-	10.200	0.40157	43.00	100.00	12.00	120	TiN
8596025	●	-	-	-	10.250	0.40354	43.00	100.00	12.00	120	TiN
6160311	●	-	-	-	10.300	0.40551	43.00	100.00	12.00	120	TiAlN
61603	●	-	-	-	10.300	0.40551	43.00	100.00	12.00	120	TiN
859603511	●	-	-	-	10.350	0.40748	43.00	100.00	12.00	120	TiAlN
8596035	●	-	-	-	10.350	0.40748	43.00	100.00	12.00	120	TiN
61604	●	-	-	-	10.400	0.40945	43.00	100.00	12.00	120	TiN
8596045	●	-	-	-	10.450	0.41142	43.00	100.00	12.00	120	TiN
6160511	●	-	-	-	10.500	0.41339	43.00	100.00	12.00	120	TiAlN
61605	●	-	-	-	10.500	0.41339	43.00	100.00	12.00	120	TiN
8596055	●	-	-	-	10.550	0.41535	43.00	100.00	12.00	120	TiN
61606	●	-	-	-	10.600	0.41732	43.00	100.00	12.00	120	TiN
8596065	●	-	-	-	10.650	0.41929	47.00	104.00	12.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
6160711	●	-	-	-	10.700	0.42126	47.00	104.00	12.00	120	TiAlN
61607	●	-	-	-	10.700	0.42126	47.00	104.00	12.00	120	TiN
8596075	●	-	-	-	10.750	0.42323	47.00	104.00	12.00	120	TiN
61608	●	-	-	-	10.800	0.42520	47.00	104.00	12.00	120	TiN
8596085	●	-	-	-	10.850	0.42717	47.00	104.00	12.00	120	TiN
61609	●	-	-	-	10.900	0.42913	47.00	104.00	12.00	120	TiN
8596095	●	-	-	-	10.950	0.43110	47.00	104.00	12.00	120	TiN
6161011	●	-	-	-	11.000	0.43307	47.00	104.00	12.00	120	TiAlN
61610	●	-	-	-	11.000	0.43307	47.00	104.00	12.00	120	TiN
8596105	●	-	-	-	11.050	0.43504	47.00	104.00	12.00	120	TiN
6161111	●	-	-	-	11.100	0.43701	47.00	104.00	12.00	120	TiAlN
61611	●	-	-	-	11.100	0.43701	47.00	104.00	12.00	120	TiN
8596115	●	-	-	-	11.150	0.43898	47.00	104.00	12.00	120	TiN
61612	●	-	-	-	11.200	0.44094	47.00	104.00	12.00	120	TiN
8596125	●	-	-	-	11.250	0.44291	47.00	104.00	12.00	120	TiN
61613	●	-	-	-	11.300	0.44488	47.00	104.00	12.00	120	TiN
8596135	●	-	-	-	11.350	0.44685	47.00	104.00	12.00	120	TiN
61614	●	-	-	-	11.400	0.44882	47.00	104.00	12.00	120	TiN
8596145	●	-	-	-	11.450	0.45079	47.00	104.00	12.00	120	TiN
6161511	●	-	-	-	11.500	0.45276	47.00	104.00	12.00	120	TiAlN
61615	●	-	-	-	11.500	0.45276	47.00	104.00	12.00	120	TiN
8596155	●	-	-	-	11.550	0.45472	47.00	104.00	12.00	120	TiN
61616	●	-	-	-	11.600	0.45669	47.00	104.00	12.00	120	TiN
8596165	●	-	-	-	11.650	0.45866	47.00	104.00	12.00	120	TiN
61617	●	-	-	-	11.700	0.46063	47.00	104.00	12.00	120	TiN
8596175	●	-	-	-	11.750	0.46260	47.00	104.00	12.00	120	TiN
61618	●	-	-	-	11.800	0.46457	47.00	104.00	12.00	120	TiN
8596185	●	-	-	-	11.850	0.46654	51.00	108.00	12.00	120	TiN
61619	●	-	-	-	11.900	0.46850	51.00	108.00	12.00	120	TiN
8596195	●	-	-	-	11.950	0.47047	51.00	108.00	12.00	120	TiN
6162011	●	-	-	-	12.000	0.47244	51.00	108.00	12.00	120	TiAlN
61620	●	-	-	-	12.000	0.47244	51.00	108.00	12.00	120	TiN
61621	●	-	-	-	12.100	0.47638	51.00	108.00	12.00	120	TiN
61622	●	-	-	-	12.200	0.48031	51.00	108.00	12.00	120	TiN
6162311	●	-	-	-	12.300	0.48425	51.00	108.00	12.00	120	TiAlN
61623	●	-	-	-	12.300	0.48425	51.00	108.00	12.00	120	TiN
6162411	●	-	-	-	12.400	0.48819	51.00	108.00	12.00	120	TiAlN
61624	●	-	-	-	12.400	0.48819	51.00	108.00	12.00	120	TiN
6162511	●	-	-	-	12.500	0.49213	51.00	108.00	12.00	120	TiAlN
61625	●	-	-	-	12.500	0.49213	51.00	108.00	12.00	120	TiN
6162611	●	-	-	-	12.600	0.49606	51.00	108.00	12.00	120	TiAlN
61626	●	-	-	-	12.600	0.49606	51.00	108.00	12.00	120	TiN
6162711	●	1/2	-	-	12.700	0.50000	51.00	108.00	12.00	120	TiAlN
61627	●	1/2	-	-	12.700	0.50000	51.00	108.00	12.00	120	TiN
6162811	●	-	-	-	12.800	0.50394	51.00	108.00	12.00	120	TiAlN
61628	●	-	-	-	12.800	0.50394	51.00	108.00	12.00	120	TiN
6162911	●	-	-	-	12.900	0.50787	51.00	108.00	12.00	120	TiAlN
61629	●	-	-	-	12.900	0.50787	51.00	108.00	12.00	120	TiN
6163011	●	-	-	-	13.000	0.51181	51.00	108.00	12.00	120	TiAlN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
Low	Medium	High							6061	Casting						
1010	1035	1065	4140	4340				7075								
○	○				○	○	○	○	○							

○ Good ○ Best

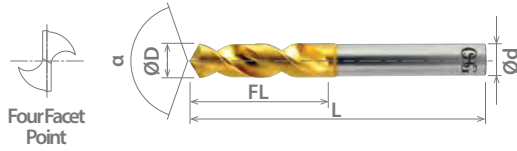




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)	Point Angle α	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
61630	●	-	-	-	13.000	0.51181	51.00	108.00	12.00	120	TiN
6163111	●	-	-	-	13.100	0.51575	51.00	111.00	16.00	120	TiAlN
61631	●	-	-	-	13.100	0.51575	51.00	111.00	16.00	120	TiN
61632	●	-	-	-	13.200	0.51969	51.00	111.00	16.00	120	TiN
61633	●	-	-	-	13.300	0.52362	54.00	114.00	16.00	120	TiN
61634	●	-	-	-	13.400	0.52756	54.00	114.00	16.00	120	TiN
6163511	●	-	-	-	13.500	0.53150	54.00	114.00	16.00	120	TiAlN
61635	●	-	-	-	13.500	0.53150	54.00	114.00	16.00	120	TiN
61636	●	-	-	-	13.600	0.53543	54.00	114.00	16.00	120	TiN
61637	●	-	-	-	13.700	0.53937	54.00	114.00	16.00	120	TiN
61638	●	-	-	-	13.800	0.54331	54.00	114.00	16.00	120	TiN
61639	●	-	-	-	13.900	0.54724	54.00	114.00	16.00	120	TiN
6164011	●	-	-	-	14.000	0.55118	54.00	114.00	16.00	120	TiAlN
61640	●	-	-	-	14.000	0.55118	54.00	114.00	16.00	120	TiN
6164111	●	-	-	-	14.100	0.55512	56.00	116.00	16.00	120	TiAlN
61641	●	-	-	-	14.100	0.55512	56.00	116.00	16.00	120	TiN
61642	●	-	-	-	14.200	0.55906	56.00	116.00	16.00	120	TiN
6164311	●	-	-	-	14.300	0.56299	56.00	116.00	16.00	120	TiAlN
61643	●	-	-	-	14.300	0.56299	56.00	116.00	16.00	120	TiN
61644	●	-	-	-	14.400	0.56693	56.00	116.00	16.00	120	TiN
6164511	●	-	-	-	14.500	0.57087	56.00	116.00	16.00	120	TiAlN
61645	●	-	-	-	14.500	0.57087	56.00	116.00	16.00	120	TiN
61646	●	-	-	-	14.600	0.57480	56.00	116.00	16.00	120	TiN
61647	●	-	-	-	14.700	0.57874	56.00	116.00	16.00	120	TiN
61648	●	-	-	-	14.800	0.58268	56.00	116.00	16.00	120	TiN
61649	●	-	-	-	14.900	0.58661	56.00	116.00	16.00	120	TiN
6165011	●	-	-	-	15.000	0.59055	56.00	116.00	16.00	120	TiAlN
61650	●	-	-	-	15.000	0.59055	56.00	116.00	16.00	120	TiN
61651	●	-	-	-	15.100	0.59449	58.00	118.00	16.00	120	TiN
61652	●	-	-	-	15.200	0.59843	58.00	118.00	16.00	120	TiN
6165311	●	-	-	-	15.300	0.60236	58.00	118.00	16.00	120	TiAlN
61653	●	-	-	-	15.300	0.60236	58.00	118.00	16.00	120	TiN
61654	●	-	-	-	15.400	0.60630	58.00	118.00	16.00	120	TiN
61655	●	-	-	-	15.500	0.61024	58.00	118.00	16.00	120	TiN
61656	●	-	-	-	15.600	0.61417	58.00	118.00	16.00	120	TiN
61657	●	-	-	-	15.700	0.61811	58.00	118.00	16.00	120	TiN
61658	●	-	-	-	15.800	0.62205	58.00	118.00	16.00	120	TiN
6165911	●	-	-	-	15.900	0.62598	58.00	118.00	16.00	120	TiAlN
61659	●	-	-	-	15.900	0.62598	58.00	118.00	16.00	120	TiN
6166011	●	-	-	-	16.000	0.62992	58.00	118.00	16.00	120	TiAlN
61660	●	-	-	-	16.000	0.62992	58.00	118.00	16.00	120	TiN
6166111	●	-	-	-	16.100	0.63386	60.00	126.00	20.00	120	TiAlN
61661	●	-	-	-	16.100	0.63386	60.00	126.00	20.00	120	TiN
61662	●	-	-	-	16.200	0.63780	60.00	126.00	20.00	120	TiN
61663	●	-	-	-	16.300	0.64173	60.00	126.00	20.00	120	TiN
61664	●	-	-	-	16.400	0.64567	60.00	126.00	20.00	120	TiN
6166511	●	-	-	-	16.500	0.64961	60.00	126.00	20.00	120	TiAlN
61665	●	-	-	-	16.500	0.64961	60.00	126.00	20.00	120	TiN
61666	●	-	-	-	16.600	0.65354	60.00	126.00	20.00	120	TiN
6166711	●	-	-	-	16.700	0.65748	60.00	126.00	20.00	120	TiAlN
61667	●	-	-	-	16.700	0.65748	60.00	126.00	20.00	120	TiN
61668	●	-	-	-	16.800	0.66142	60.00	126.00	20.00	120	TiN
61669	●	-	-	-	16.900	0.66535	60.00	126.00	20.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch					
61670	●	-	-	-	17.000	0.66929	60.00	126.00	20.00	120	TiN
6167111	●	-	-	-	17.100	0.67323	62.00	128.00	20.00	120	TiAlN
61671	●	-	-	-	17.100	0.67323	62.00	128.00	20.00	120	TiN
6167211	●	-	-	-	17.200	0.67717	60.00	128.00	20.00	120	TiAlN
61672	●	-	-	-	17.200	0.67717	60.00	128.00	20.00	120	TiN
61673	●	-	-	-	17.300	0.68110	60.00	128.00	20.00	120	TiN
61674	●	-	-	-	17.400	0.68504	60.00	128.00	20.00	120	TiN
61675	●	-	-	-	17.500	0.68898	60.00	128.00	20.00	120	TiN
61676	●	-	-	-	17.600	0.69291	60.00	128.00	20.00	120	TiN
6167711	●	-	-	-	17.700	0.69685	60.00	128.00	20.00	120	TiAlN
61677	●	-	-	-	17.700	0.69685	60.00	128.00	20.00	120	TiN
61678	●	-	-	-	17.800	0.70079	60.00	128.00	20.00	120	TiN
61679	●	-	-	-	17.900	0.70472	60.00	128.00	20.00	120	TiN
6168011	●	-	-	-	18.000	0.70866	60.00	128.00	20.00	120	TiAlN
61680	●	-	-	-	18.000	0.70866	60.00	128.00	20.00	120	TiN
61681	●	-	-	-	18.100	0.71260	64.00	130.00	20.00	120	TiN
61682	●	-	-	-	18.200	0.71654	64.00	130.00	20.00	120	TiN
61683	●	-	-	-	18.300	0.72047	64.00	130.00	20.00	120	TiN
61684	●	-	-	-	18.400	0.72441	64.00	130.00	20.00	120	TiN
61685	●	-	-	-	18.500	0.72835	64.00	130.00	20.00	120	TiN
61686	●	-	-	-	18.600	0.73228	64.00	130.00	20.00	120	TiN
61687	●	-	-	-	18.700	0.73622	64.00	130.00	20.00	120	TiN
61688	●	-	-	-	18.800	0.74016	64.00	130.00	20.00	120	TiN
61689	●	-	-	-	18.900	0.74409	64.00	130.00	20.00	120	TiN
61690	●	-	-	-	19.000	0.74803	64.00	130.00	20.00	120	TiN
6169111	●	-	-	-	19.100	0.75197	66.00	132.00	20.00	120	TiAlN
61691	●	-	-	-	19.100	0.75197	66.00	132.00	20.00	120	TiN
61692	●	-	-	-	19.200	0.75591	66.00	132.00	20.00	120	TiN
61693	●	-	-	-	19.300	0.75984	66.00	132.00	20.00	120	TiN
61694	●	-	-	-	19.400	0.76378	66.00	132.00	20.00	120	TiN
61695	●	-	-	-	19.500	0.76772	66.00	132.00	20.00	120	TiN
61696	●	-	-	-	19.600	0.77165	66.00	132.00	20.00	120	TiN
61697	●	-	-	-	19.700	0.77559	66.00	132.00	20.00	120	TiN
61698	●	-	-	-	19.800	0.77953	66.00	132.00	20.00	120	TiN
61699	●	-	-	-	19.900	0.78346	66.00	132.00	20.00	120	TiN
61700	●	-	-	-	20.000	0.78740	66.00	132.00	20.00	120	TiN
61705	●	-	-	-	20.500	0.80709	68.00	144.00	25.00	120	TiN
6171011	●	-	-	-	21.000	0.82677	68.00	144.00	25.00	120	TiAlN
61710	●	-	-	-	21.000	0.82677	68.00	144.00	25.00	120	TiN
6171511	●	-	-	-	21.500	0.84646	70.00	146.00	25.00	120	TiAlN
61715	●	-	-	-	21.500	0.84646	70.00	146.00	25.00	120	TiN
61720	●	-	-	-	22.000	0.86614	70.00	146.00	25.00	120	TiN
61725	●	-	-	-	22.500	0.88583	72.00	148.00	25.00	120	TiN
6173011	●	-	-	-	23.000	0.90551	72.00	148.00	25.00	120	TiAlN
61730	●	-	-	-	23.000	0.90551	72.00	148.00	25.00	120	TiN
61735	●	-	-	-	23.500	0.92520	72.00	148.00	25.00	120	TiN
61740	●	-	-	-	24.000	0.94488	75.00	151.00	25.00	120	TiN
61745	●	-	-	-	24.500	0.96457	75.00	151.00	25.00	120	TiN
61750	●	-	-	-	25.000	0.98425	75.00	151.00	25.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H				
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel				
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium					
Low	Medium	High							6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
1010	1035	1045	1065	4140	4340	300	400	17-4 PH	6061	7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
○	○					○	○	○	○	○							

○ Good ○ Best



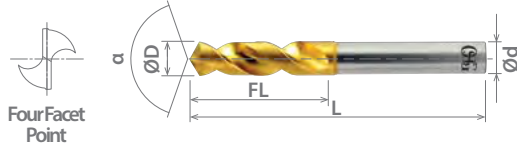




## List 1100 (Continued)

EX-SUS-GOLD EX-SUS-GDS

<b>SPEED FEED</b> 353	<b>HSSE</b>	<b>TiN</b>	<b>TiAlN</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>40°</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
0.5 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 30	+0 / -0.033	+0 / -0.0013
30 < D ≤ 32	+0 / -0.039	+0 / -0.0015

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	Point Angle	Surface Treatment
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (mm)	α	
61755	●	-	-	-	25.500	1.00394	78.00	158.00	32.00	120	TiN
61760	●	-	-	-	26.000	1.02362	78.00	158.00	32.00	120	TiN
61765	●	-	-	-	26.500	1.04331	78.00	158.00	32.00	120	TiN
61770	●	-	-	-	27.000	1.06299	81.00	161.00	32.00	120	TiN
61775	●	-	-	-	27.500	1.08268	81.00	161.00	32.00	120	TiN
61780	●	-	-	-	28.000	1.10236	81.00	161.00	32.00	120	TiN
61785	●	-	-	-	28.500	1.12205	84.00	164.00	32.00	120	TiN
61790	●	-	-	-	29.000	1.14173	84.00	164.00	32.00	120	TiN
61795	●	-	-	-	29.500	1.16142	84.00	164.00	32.00	120	TiN
61800	●	-	-	-	30.000	1.18110	84.00	164.00	32.00	120	TiN
61805	●	-	-	-	30.500	1.20079	87.00	167.00	32.00	120	TiN
61810	●	-	-	-	31.000	1.22047	87.00	167.00	32.00	120	TiN
61815	●	-	-	-	31.500	1.24016	87.00	167.00	32.00	120	TiN
61820	●	-	-	-	32.000	1.25984	90.00	170.00	32.00	120	TiN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



P					M			K	N		S		H						
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel						
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium							
Low	Medium	High			300	400	17-4 PH		6061	7075			Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1045	1065	4140	4340														
○	○						○	○	○	○									

○ Good ○ Best

