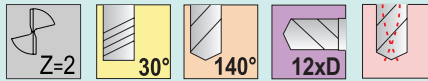


Series HTD 12

.1181" - .2188"  
(3.000mm - 5.557mm)



TOLERANCES	
$d1$	h7
$d2$	h6
$l1$	+1181 <sup>+</sup> -1181 <sup>+</sup> (+3.00-3.00mm)
$l2$	+1181 <sup>+</sup> -1181 <sup>+</sup> (+3.00-3.00mm)
$l4$	+0787 <sup>+</sup> -0000 <sup>+</sup> (+2.00-0.00mm)

Recommended for high nickel, high temperature alloys, cobalt-based alloys, stainless steels, and tool steels under 52 Rc

**BALIQ ALTINOS Coating (AlTiN-based)**

High performance solid submicron grain carbide drill with reinforced (HA) shank

h7 drill diameter tolerance

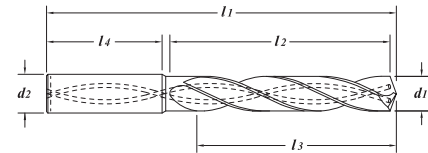
Double margin for true and cleaner holes

Coolant through

Polished flutes

140° Facet point

Pilot drill not required for most applications



EDP#	$d1$ Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	$l3$ Max Drill Depth	$l4$ Shank Length	1-11	12-24	25-49	50-100
	Decimal	Metric									
69064	.1181	3.000	6.0	80	40	37	36	122.30	116.98	111.66	106.35
69066	.1220	3.100	6.0	80	40	38	36	122.30	116.98	111.66	106.35
69068	.1250	1/8"	3.175	6.0	82	42	39	122.30	116.98	111.66	106.35
69070	.1260	3.200	6.0	82	42	39	36	122.30	116.98	111.66	106.35
69072	.1285	#30	3.264	6.0	82	42	40	122.30	116.98	111.66	106.35
69074	.1299	3.300	6.0	82	42	40	36	122.30	116.98	111.66	106.35
69076	.1360	#29	3.454	6.0	85	45	42	122.30	116.98	111.66	106.35
69078	.1378	3.500	6.0	85	45	43	36	122.30	116.98	111.66	106.35
69080	.1417	3.600	6.0	85	45	44	36	122.30	116.98	111.66	106.35
69082	.1457	3.700	6.0	90	50	45	36	122.30	116.98	111.66	106.35
69084	.1476	3.750	6.0	90	50	46	36	122.30	116.98	111.66	106.35
69086	.1496	3.800	6.0	90	50	46	36	122.30	116.98	111.66	106.35
69088	.1535	3.900	6.0	90	50	48	36	122.30	116.98	111.66	106.35
69090	.1562	5/32"	3.967	6.0	90	50	48	122.30	116.98	111.66	106.35
69092	.1575	4.000	6.0	95	55	49	36	122.30	116.98	111.66	106.35
69094	.1614	4.100	6.0	95	55	50	36	122.30	116.98	111.66	106.35
69096	.1654	4.200	6.0	95	55	51	36	122.30	116.98	111.66	106.35
69098	.1673	4.250	6.0	95	55	52	36	122.30	116.98	111.66	106.35
69100	.1693	4.300	6.0	95	55	52	36	122.30	116.98	111.66	106.35
69102	.1719	11/64"	4.366	6.0	95	55	53	122.30	116.98	111.66	106.35
69104	.1732	4.400	6.0	95	55	54	36	122.30	116.98	111.66	106.35
69106	.1772	4.500	6.0	100	60	55	36	122.30	116.98	111.66	106.35
69108	.1811	4.600	6.0	100	60	56	36	122.30	116.98	111.66	106.35
69110	.1831	4.650	6.0	100	60	57	36	122.30	116.98	111.66	106.35
69112	.1850	4.700	6.0	100	60	57	36	122.30	116.98	111.66	106.35
69114	.1875	3/16"	4.762	6.0	100	60	58	122.30	116.98	111.66	106.35
69116	.1890	#12	4.800	6.0	100	60	58	122.30	116.98	111.66	106.35
69118	.1929	4.900	6.0	100	60	60	36	122.30	116.98	111.66	106.35
69120	.1969	5.000	6.0	105	65	61	36	122.30	116.98	111.66	106.35
69122	.2010	#7	5.105	6.0	105	65	62	122.30	116.98	111.66	106.35
69124	.2028	5.150	6.0	105	65	63	36	122.30	116.98	111.66	106.35
69126	.2031	13/64"	5.159	6.0	105	65	63	122.30	116.98	111.66	106.35
69128	.2047	5.200	6.0	110	70	63	36	122.30	116.98	111.66	106.35
69130	.2087	5.300	6.0	110	70	65	36	122.30	116.98	111.66	106.35
69132	.2165	5.500	6.0	110	70	67	36	122.30	116.98	111.66	106.35
69134	.2188	7/32"	5.557	6.0	110	70	68	122.30	116.98	111.66	106.35

# Series HTD 12 (continued)

.2205" - .3937"  
(5.600mm - 10.000mm)

HIGH PERFORMANCE  
DRILLS

EDP#	<i>d1</i> Diameter		<i>d2</i> Shank Diameter	<i>l1</i> Overall Length	<i>l2</i> Flute Length	<i>l3</i> Max Drill Depth	<i>l4</i> Shank Length	1-11	12-24	25-49	50-100
	Decimal	Metric									
69136	.2205	5.600	6.0	115	75	68	36	122.30	116.98	111.66	106.35
69138	.2244	5.700	6.0	115	75	69	36	122.30	116.98	111.66	106.35
69140	.2283	5.800	6.0	115	75	71	36	122.30	116.98	111.66	106.35
69142	.2323	5.900	6.0	115	75	72	36	122.30	116.98	111.66	106.35
69144	.2344	15/64"	5.954	6.0	120	80	73	122.30	116.98	111.66	106.35
69146	.2362	6.000	6.0	120	80	73	36	122.30	116.98	111.66	106.35
69148	.2370	6.020	8.0	120	80	73	36	167.44	160.16	152.88	145.60
69150	.2402	6.100	8.0	120	80	74	36	167.44	160.16	152.88	145.60
69152	.2441	6.200	8.0	120	80	76	36	167.44	160.16	152.88	145.60
69154	.2480	6.300	8.0	120	80	77	36	167.44	160.16	152.88	145.60
69156	.2500	1/4"	6.350	8.0	125	85	77	167.44	160.16	152.88	145.60
69158	.2520	6.400	8.0	125	85	78	36	167.44	160.16	152.88	145.60
69160	.2559	6.500	8.0	125	85	79	36	167.44	160.16	152.88	145.60
69162	.2598	6.600	8.0	125	85	80	36	167.44	160.16	152.88	145.60
69164	.2638	6.700	8.0	125	85	82	36	167.44	160.16	152.88	145.60
69166	.2656	17/64"	6.746	8.0	130	90	82	167.44	160.16	152.88	145.60
69168	.2677	6.800	8.0	130	90	83	36	167.44	160.16	152.88	145.60
69170	.2717	6.900	8.0	130	90	84	36	167.44	160.16	152.88	145.60
69172	.2756	7.000	8.0	130	90	85	36	167.44	160.16	152.88	145.60
69174	.2795	7.100	8.0	130	90	86	36	167.44	160.16	152.88	145.60
69176	.2812	9/32"	7.142	8.0	135	95	87	167.44	160.16	152.88	145.60
69178	.2835	7.200	8.0	135	95	88	36	167.44	160.16	152.88	145.60
69180	.2874	7.300	8.0	135	95	89	36	167.44	160.16	152.88	145.60
69182	.2913	7.400	8.0	135	95	90	36	167.44	160.16	152.88	145.60
69184	.2953	7.500	8.0	135	95	91	36	167.44	160.16	152.88	145.60
69186	.2969	19/64"	7.541	8.0	141	101	92	167.44	160.16	152.88	145.60
69188	.2992	7.600	8.0	141	101	93	36	167.44	160.16	152.88	145.60
69190	.3031	7.700	8.0	141	101	94	36	167.44	160.16	152.88	145.60
69192	.3071	7.800	8.0	141	101	95	36	167.44	160.16	152.88	145.60
69194	.3125	5/16"	7.937	8.0	141	101	97	167.44	160.16	152.88	145.60
69196	.3150	8.000	8.0	141	101	97	36	167.44	160.16	152.88	145.60
69198	.3189	8.100	10.0	152	108	99	40	254.45	243.39	232.32	221.26
69200	.3228	8.200	10.0	152	108	100	40	254.45	243.39	232.32	221.26
69202	.3268	8.300	10.0	152	108	101	40	254.45	243.39	232.32	221.26
69204	.3287	8.350	10.0	152	108	102	40	254.45	243.39	232.32	221.26
69206	.3307	8.400	10.0	152	108	102	40	254.45	243.39	232.32	221.26
69208	.3346	8.500	10.0	152	108	104	40	254.45	243.39	232.32	221.26
69210	.3386	8.600	10.0	158	114	105	40	254.45	243.39	232.32	221.26
69212	.3425	8.700	10.0	158	114	106	40	254.45	243.39	232.32	221.26
69214	.3438	11/32"	8.732	10.0	158	114	106	254.45	243.39	232.32	221.26
69216	.3445	8.750	10.0	158	114	107	40	254.45	243.39	232.32	221.26
69218	.3465	8.800	10.0	158	114	107	40	254.45	243.39	232.32	221.26
69220	.3504	8.900	10.0	158	114	108	40	254.45	243.39	232.32	221.26
69222	.3543	9.000	10.0	158	114	110	40	254.45	243.39	232.32	221.26
69224	.3583	9.100	10.0	163	119	111	40	254.45	243.39	232.32	221.26
69226	.3602	9.150	10.0	163	119	111	40	254.45	243.39	232.32	221.26
69228	.3622	9.200	10.0	163	119	112	40	254.45	243.39	232.32	221.26
69230	.3661	9.300	10.0	163	119	113	40	254.45	243.39	232.32	221.26
69232	.3701	9.400	10.0	163	119	115	40	254.45	243.39	232.32	221.26
69234	.3740	9.500	10.0	163	119	116	40	254.45	243.39	232.32	221.26
69236	.3750	3/8"	9.525	10.0	172	128	116	254.45	243.39	232.32	221.26
69238	.3780	9.600	10.0	172	128	117	40	254.45	243.39	232.32	221.26
69240	.3819	9.700	10.0	172	128	118	40	254.45	243.39	232.32	221.26
69242	.3858	9.800	10.0	172	128	119	40	254.45	243.39	232.32	221.26
69244	.3898	9.900	10.0	172	128	121	40	254.45	243.39	232.32	221.26
69246	.3937	10.000	10.0	172	128	122	40	254.45	243.39	232.32	221.26

continued →

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