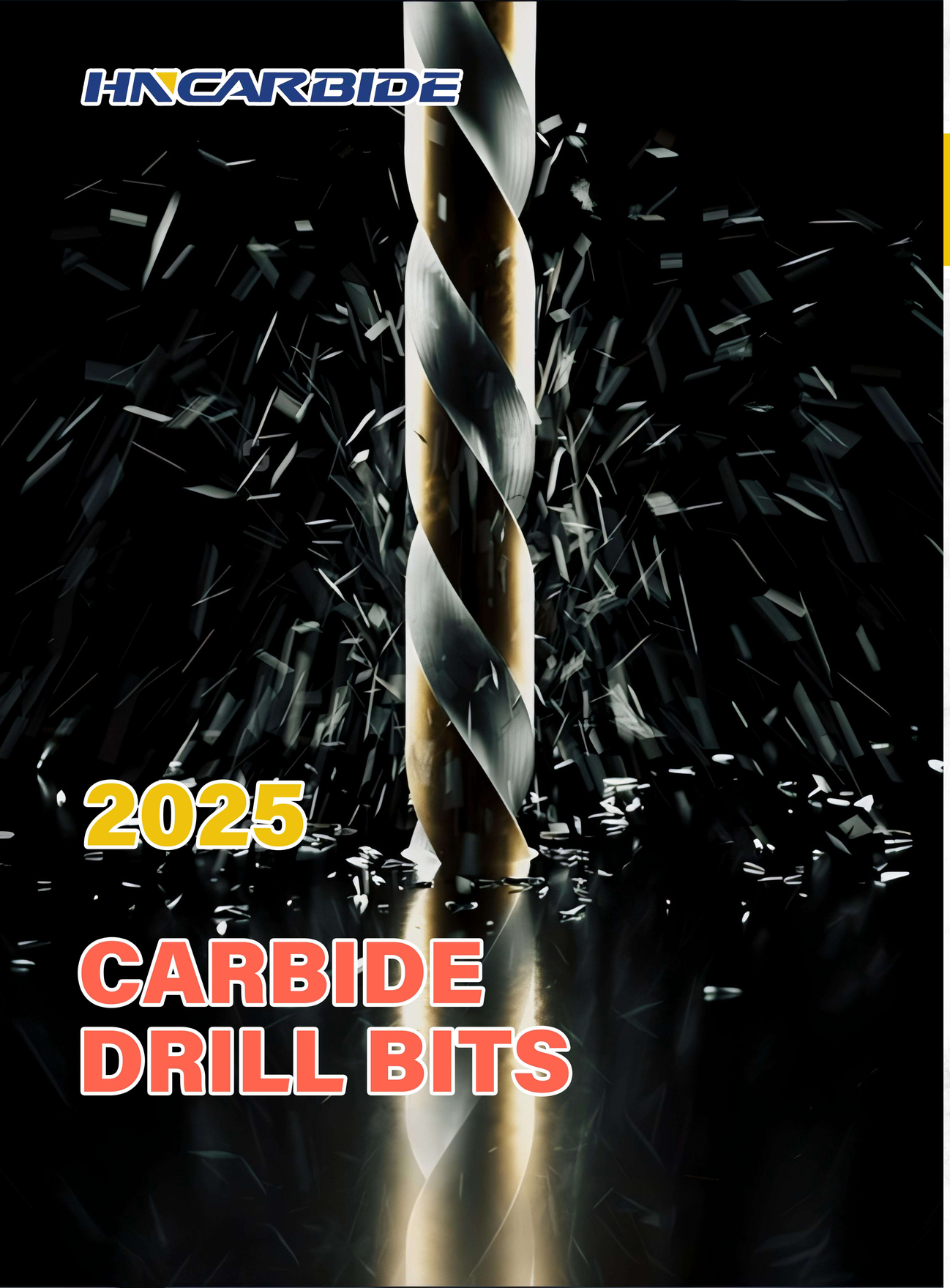


DETAIL DISPLAY

Optimized Heat Treatment Process

Advanced heat treatment technology ensures the drill bits maintain excellent hardness and wear resistance even under high temperatures, enhancing machining efficiency.

Versatile Application

Suitable for a wide range of materials, including hard alloys, stainless steel, aluminum alloys, and more, meeting diverse industrial demands.

High Hardness & Wear Resistance

Made from premium tungsten carbide material, offering exceptional hardness and wear resistance, ideal for machining tough materials, and extending tool life.

Precision Cutting, Stable Performance

Designed for precision, ensuring accurate drilling with minimal error, reducing rework and improving efficiency.

C

Carbide Drills

CONTENTS

3D Carbide drill-TiXCO3 Coating ---------- C01

5D Carbide drill-TiXCO3 Coating ---------- C05

3D Carbide drill-ALCRONA Coating ---------- C09

5D Carbide drill-ALCRONA Coating ---------- C13

CARBIDE DRILLS OVERVIEW

3D Carbide drill-TiXCO3 Coating

HN-3D-TD | C01

HN-3D-CD | C03

5D Carbide drill-TiXCO3 Coating

HN-5D-TD | C05

HN-5D-CD | C07

3D Carbide drill-ALCRONA Coating

HN-3D-TD-A | C09

HN-3D-CD-A | C11

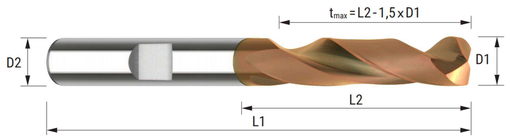
5D Carbide drill-ALCRONA Coating

HN-5D-TD-A | C13

HN-5D-CD-A | C15

HN-3D-TD

3D Carbide drill



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HN-3D-TD-0013	1.3	5	4	50	HA	-
HN-3D-TD-0014	1.4	6	4	50	HA	-
HN-3D-TD-0015	1.5	6	4	50	HA	-
HN-3D-TD-0016	1.6	6	4	50	HA	-
HN-3D-TD-0017	1.7	7	4	50	HA	-
HN-3D-TD-0018	1.8	7	4	50	HA	-
HN-3D-TD-0019	1.9	8	4	50	HA	-
HN-3D-TD-0020	2	8	4	50	HA	-
HN-3D-TD-0021	2.1	9	4	50	HA	-
HN-3D-TD-0022	2.2	9	4	50	HA	-
HN-3D-TD-0023	2.3	9	4	50	HA	-
HN-3D-TD-0024	2.4	10	4	50	HA	-
HN-3D-TD-0025	2.5	10	4	50	HA	-
HN-3D-TD-0026	2.6	11	4	50	HA	-
HN-3D-TD-0027	2.7	11	4	50	HA	-
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HN-3D-TD-0030	3	20	4	62	HA	-
HN-3D-TD-0031	3.1	20	4	62	HA	-
HN-3D-TD-0032	3.2	20	4	62	HA	-
HN-3D-TD-0033	3.3	20	4	62	HA	-
HN-3D-TD-0034	3.4	20	4	62	HA	-
HN-3D-TD-0035	3.5	20	4	62	HA	-
HN-3D-TD-0036	3.6	20	4	62	HA	-
HN-3D-TD-0037	3.7	20	4	62	HA	-
HN-3D-TD-0038	3.8	24	4	62	HA	-
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HN-3D-TD-0019-D6	1.9	8	6	66	HA	HB
HN-3D-TD-0020-D6	2	8	6	66	HA	HB
HN-3D-TD-0021-D6	2.1	9	6	66	HA	HB
HN-3D-TD-0022-D6	2.2	9	6	66	HA	HB
HN-3D-TD-0023-D6	2.3	9	6	66	HA	HB
HN-3D-TD-0024-D6	2.4	10	6	66	HA	HB
HN-3D-TD-0025-D6	2.5	10	6	66	HA	HB
HN-3D-TD-0026-D6	2.6	11	6	66	HA	HB

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HN-3D-TD-0032-D6	3.2	20	6	66	HA	HB
HN-3D-TD-0033-D6	3.3	20	6	66	HA	HB
HN-3D-TD-0034-D6	3.4	20	6	66	HA	HB
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HN-3D-TD-0036-D6	3.6	20	6	66	HA	HB
HN-3D-TD-0037-D6	3.7	20	6	66	HA	HB
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HN-3D-TD-0042	4.2	24	6	66	HA	HB
HN-3D-TD-0043	4.3	24	6	66	HA	HB
HN-3D-TD-0044	4.4	24	6	66	HA	HB
HN-3D-TD-0045	4.5	24	6	66	HA	HB
HN-3D-TD-0046	4.6	24	6	66	HA	HB
HN-3D-TD-0047	4.7	24	6	66	HA	HB
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HN-3D-TD-0051	5.1	28	6	66	HA	HB
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HN-3D-TD-0073	7.3	41	8	79	HA	HB
HN-3D-TD-0074	7.4	41	8	79	HA	HB

HN-3D-TD

3D Carbide drill

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HN-3D-TD-0079	7.9	41	8	79	HA	HB
HN-3D-TD-0080	8	41	8	79	HA	HB
HN-3D-TD-0081	8.1	47	10	89	HA	HB
HN-3D-TD-0082	8.2	47	10	89	HA	HB
HN-3D-TD-0083	8.3	47	10	89	HA	HB
HN-3D-TD-0084	8.4	47	10	89	HA	HB
HN-3D-TD-0085	8.5	47	10	89	HA	HB
HN-3D-TD-0086	8.6	47	10	89	HA	HB
HN-3D-TD-0087	8.7	47	10	89	HA	HB
HN-3D-TD-0088	8.8	47	10	89	HA	HB
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HN-3D-TD-0093	9.3	47	10	89	HA	HB
HN-3D-TD-0094	9.4	47	10	89	HA	HB
HN-3D-TD-0095	9.5	47	10	89	HA	HB
HN-3D-TD-0096	9.6	47	10	89	HA	HB
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HN-3D-TD-0105	10.5	55	12	102	HA	HB
HN-3D-TD-0106	10.6	55	12	102	HA	HB
HN-3D-TD-0107	10.7	55	12	102	HA	HB
HN-3D-TD-0108	10.8	55	12	102	HA	HB
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HN-3D-TD-0124	12.4	60	14	107	HA	HB
HN-3D-TD-0125	12.5	60	14	107	HA	HB
HN-3D-TD-0126	12.6	60	14	107	HA	HB
HN-3D-TD-0127	12.7	60	14	107	HA	HB
HN-3D-TD-0128	12.8	60	14	107	HA	HB
HN-3D-TD-0129	12.9	60	14	107	HA	HB
HN-3D-TD-0130	13	60	14	107	HA	HB
HN-3D-TD-0131	13.1	60	14	107	HA	HB
HN-3D-TD-0132	13.2	60	14	107	HA	HB
HN-3D-TD-0133	13.3	60	14	107	HA	HB
HN-3D-TD-0134	13.4	60	14	107	HA	HB
HN-3D-TD-0135	13.5	60	14	107	HA	HB
HN-3D-TD-0136	13.6	60	14	107	HA	HB
HN-3D-TD-0137	13.7	60	14	107	HA	HB

Order Number	d	l	D	L	HA	HB
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HN-3D-TD-0143	14.3	65	16	115	HA	HB
HN-3D-TD-0144	14.4	65	16	115	HA	HB
HN-3D-TD-0145	14.5	65	16	115	HA	HB
HN-3D-TD-0146	14.6	65	16	115	HA	HB
HN-3D-TD-0147	14.7	65	16	115	HA	HB
HN-3D-TD-0148	14.8	65	16	115	HA	HB
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HN-3D-TD-0157	15.7	65	16	115	HA	HB
HN-3D-TD-0158	15.8	65	16	115	HA	HB
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HN-3D-TD-0160	16	65	16	115	HA	HB
HN-3D-TD-0161	16.1	73	18	123	HA	HB
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HN-3D-TD-0167	16.7	73	18	123	HA	HB
HN-3D-TD-0168	16.8	73	18	123	HA	HB
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HN-3D-TD-0171	17.1	73	18	123	HA	HB
HN-3D-TD-0172	17.2	73	18	123	HA	HB
HN-3D-TD-0173	17.3	73	18	123	HA	HB
HN-3D-TD-0174	17.4	73	18	123	HA	HB
HN-3D-TD-0175	17.5	73	18	123	HA	HB
HN-3D-TD-0176	17.6	73	18	123	HA	HB
HN-3D-TD-0177	17.7	73	18	123	HA	HB
HN-3D-TD-0178	17.8	73	18	123	HA	HB
HN-3D-TD-0179	17.9	73	18	123	HA	HB
HN-3D-TD-0180	18	73	18	123	HA	HB
HN-3D-TD-0181	18.1	79	20	131	HA	HB
HN-3D-TD-0182	18.2	79	20	131	HA	HB
HN-3D-TD-0183	18.3	79	20	131	HA	HB
HN-3D-TD-0184	18.4	79	20	131	HA	HB
HN-3D-TD-0185	18.5	79	20	131	HA	HB
HN-3D-TD-0186	18.6	79	20	131	HA	HB
HN-3D-TD-0187	18.7	79	20	131	HA	HB
HN-3D-TD-0188	18.8	79	20	131	HA	HB
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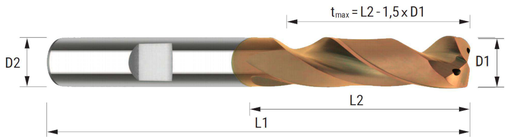
HN-3D-TD-0194	19.4	79	20	131	HA	HB
HN-3D-TD-0195	19.5	79	20	131	HA	HB
HN-3D-TD-0196	19.6	79	20	131	HA	HB
HN-3D-TD-0197	19.7	79	20	131	HA	HB
HN-3D-TD-0198	19.8	79	20	131	HA	HB
HN-3D-TD-0199	19.9	79	20	131	HA	HB
HN-3D-TD-0200	20	79	20	131	HA	HB

HN-3D-CD

3D Carbide Drill With Cooling Hole



2 | 140° | IK | TiXCo3

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HN-3D-CD-0032-D6	3.2	20	D6	66	HA	HB
HN-3D-CD-0033-D6	3.3	20	D6	66	HA	HB
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HN-3D-CD-0035-D6	3.5	20	D6	66	HA	HB
HN-3D-CD-0036-D6	3.6	20	D6	66	HA	HB
HN-3D-CD-0037-D6	3.7	20	D6	66	HA	HB
HN-3D-CD-0038-D6	3.8	24	D6	66	HA	HB
HN-3D-CD-0039-D6	3.9	24	D6	66	HA	HB
HN-3D-CD-0040-D6	4	24	D6	66	HA	HB
HN-3D-CD-0041	4.1	24	D6	66	HA	HB
HN-3D-CD-0042	4.2	24	D6	66	HA	HB
HN-3D-CD-0043	4.3	24	D6	66	HA	HB
HN-3D-CD-0044	4.4	24	D6	66	HA	HB
HN-3D-CD-0045	4.5	24	D6	66	HA	HB
HN-3D-CD-0046	4.6	24	D6	66	HA	HB
HN-3D-CD-0047	4.7	24	D6	66	HA	HB
HN-3D-CD-0048	4.8	28	D6	66	HA	HB
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HN-3D-CD-0050	5	28	D6	66	HA	HB
HN-3D-CD-0051	5.1	28	D6	66	HA	HB
HN-3D-CD-0052	5.2	28	D6	66	HA	HB
HN-3D-CD-0053	5.3	28	D6	66	HA	HB
HN-3D-CD-0054	5.4	28	D6	66	HA	HB
HN-3D-CD-0055	5.5	28	D6	66	HA	HB
HN-3D-CD-0056	5.6	28	D6	66	HA	HB
HN-3D-CD-0057	5.7	28	D6	66	HA	HB
HN-3D-CD-0058	5.8	28	D6	66	HA	HB
HN-3D-CD-0059	5.9	28	D6	66	HA	HB
HN-3D-CD-0060	6	28	D6	66	HA	HB
HN-3D-CD-0061	6.1	34	D8	79	HA	HB
HN-3D-CD-0062	6.2	34	D8	79	HA	HB
HN-3D-CD-0063	6.3	34	D8	79	HA	HB
HN-3D-CD-0064	6.4	34	D8	79	HA	HB
HN-3D-CD-0065	6.5	34	D8	79	HA	HB
HN-3D-CD-0066	6.6	34	D8	79	HA	HB
HN-3D-CD-0067	6.7	34	D8	79	HA	HB

Order Number	d	l	D	L	HA	HB
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HN-3D-CD-0069	6.9	34	D8	79	HA	HB
HN-3D-CD-0070	7	34	D8	79	HA	HB
HN-3D-CD-0071	7.1	41	D8	79	HA	HB
HN-3D-CD-0072	7.2	41	D8	79	HA	HB
HN-3D-CD-0073	7.3	41	D8	79	HA	HB
HN-3D-CD-0074	7.4	41	D8	79	HA	HB
HN-3D-CD-0075	7.5	41	D8	79	HA	HB
HN-3D-CD-0076	7.6	41	D8	79	HA	HB
HN-3D-CD-0077	7.7	41	D8	79	HA	HB
HN-3D-CD-0078	7.8	41	D8	79	HA	HB
HN-3D-CD-0079	7.9	41	D8	79	HA	HB
HN-3D-CD-0080	8	41	D8	79	HA	HB
HN-3D-CD-0081	8.1	47	D10	89	HA	HB
HN-3D-CD-0082	8.2	47	D10	89	HA	HB
HN-3D-CD-0083	8.3	47	D10	89	HA	HB
HN-3D-CD-0084	8.4	47	D10	89	HA	HB
HN-3D-CD-0085	8.5	47	D10	89	HA	HB
HN-3D-CD-0086	8.6	47	D10	89	HA	HB
HN-3D-CD-0087	8.7	47	D10	89	HA	HB
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HN-3D-CD-0089	8.9	47	D10	89	HA	HB
HN-3D-CD-0090	9	47	D10	89	HA	HB
HN-3D-CD-0091	9.1	47	D10	89	HA	HB
HN-3D-CD-0092	9.2	47	D10	89	HA	HB
HN-3D-CD-0093	9.3	47	D10	89	HA	HB
HN-3D-CD-0094	9.4	47	D10	89	HA	HB
HN-3D-CD-0095	9.5	47	D10	89	HA	HB
HN-3D-CD-0096	9.6	47	D10	89	HA	HB
HN-3D-CD-0097	9.7	47	D10	89	HA	HB
HN-3D-CD-0098	9.8	47	D10	89	HA	HB
HN-3D-CD-0099	9.9	47	D10	89	HA	HB
HN-3D-CD-0100	10	47	D10	89	HA	HB
HN-3D-CD-0101	10.1	55	D12	102	HA	HB
HN-3D-CD-0102	10.2	55	D12	102	HA	HB
HN-3D-CD-0103	10.3	55	D12	102	HA	HB
HN-3D-CD-0104	10.4	55	D12	102	HA	HB
HN-3D-CD-0105	10.5	55	D12	102	HA	HB

HN-3D-CD

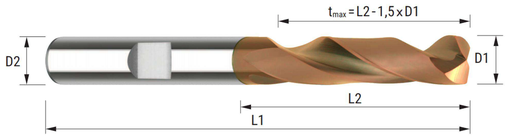
3D Carbide Drill With Cooling Hole

Order Number	d	l	D	L	HA	HB
HN-3D-CD-0106	10.6	55	D12	102	HA	HB
HN-3D-CD-0107	10.7	55	D12	102	HA	HB
HN-3D-CD-0108	10.8	55	D12	102	HA	HB
HN-3D-CD-0109	10.9	55	D12	102	HA	HB
HN-3D-CD-0110	11	55	D12	102	HA	HB
HN-3D-CD-0111	11.1	55	D12	102	HA	HB
HN-3D-CD-0112	11.2	55	D12	102	HA	HB
HN-3D-CD-0113	11.3	55	D12	102	HA	HB
HN-3D-CD-0114	11.4	55	D12	102	HA	HB
HN-3D-CD-0115	11.5	55	D12	102	HA	HB
HN-3D-CD-0116	11.6	55	D12	102	HA	HB
HN-3D-CD-0117	11.7	55	D12	102	HA	HB
HN-3D-CD-0118	11.8	55	D12	102	HA	HB
HN-3D-CD-0119	11.9	55	D12	102	HA	HB
HN-3D-CD-0120	12	55	D12	102	HA	HB
HN-3D-CD-0121	12.1	60	D14	107	HA	HB
HN-3D-CD-0122	12.2	60	D14	107	HA	HB
HN-3D-CD-0123	12.3	60	D14	107	HA	HB
HN-3D-CD-0124	12.4	60	D14	107	HA	HB
HN-3D-CD-0125	12.5	60	D14	107	HA	HB
HN-3D-CD-0126	12.6	60	D14	107	HA	HB
HN-3D-CD-0127	12.7	60	D14	107	HA	HB
HN-3D-CD-0128	12.8	60	D14	107	HA	HB
HN-3D-CD-0129	12.9	60	D14	107	HA	HB
HN-3D-CD-0130	13	60	D14	107	HA	HB
HN-3D-CD-0131	13.1	60	D14	107	HA	HB
HN-3D-CD-0132	13.2	60	D14	107	HA	HB
HN-3D-CD-0133	13.3	60	D14	107	HA	HB
HN-3D-CD-0134	13.4	60	D14	107	HA	HB
HN-3D-CD-0135	13.5	60	D14	107	HA	HB
HN-3D-CD-0136	13.6	60	D14	107	HA	HB
HN-3D-CD-0137	13.7	60	D14	107	HA	HB
HN-3D-CD-0138	13.8	60	D14	107	HA	HB
HN-3D-CD-0139	13.9	60	D14	107	HA	HB
HN-3D-CD-0140	14	60	D14	107	HA	HB
HN-3D-CD-0141	14.1	65	D16	115	HA	HB
HN-3D-CD-0142	14.2	65	D16	115	HA	HB
HN-3D-CD-0143	14.3	65	D16	115	HA	HB
HN-3D-CD-0144	14.4	65	D16	115	HA	HB
HN-3D-CD-0145	14.5	65	D16	115	HA	HB
HN-3D-CD-0146	14.6	65	D16	115	HA	HB
HN-3D-CD-0147	14.7	65	D16	115	HA	HB
HN-3D-CD-0148	14.8	65	D16	115	HA	HB
HN-3D-CD-0149	14.9	65	D16	115	HA	HB
HN-3D-CD-0150	15	65	D16	115	HA	HB
HN-3D-CD-0151	15.1	65	D16	115	HA	HB
HN-3D-CD-0152	15.2	65	D16	115	HA	HB
HN-3D-CD-0153	15.3	65	D16	115	HA	HB

Order Number	d	l	D	L	HA	HB
HN-3D-CD-0154	15.4	65	D16	115	HA	HB
HN-3D-CD-0155	15.5	65	D16	115	HA	HB
HN-3D-CD-0156	15.6	65	D16	115	HA	HB
HN-3D-CD-0157	15.7	65	D16	115	HA	HB
HN-3D-CD-0158	15.8	65	D16	115	HA	HB
HN-3D-CD-0159	15.9	65	D16	115	HA	HB
HN-3D-CD-0160	16	65	D16	115	HA	HB
HN-3D-CD-0161	16.1	73	D18	123	HA	HB
HN-3D-CD-0162	16.2	73	D18	123	HA	HB
HN-3D-CD-0163	16.3	73	D18	123	HA	HB
HN-3D-CD-0164	16.4	73	D18	123	HA	HB
HN-3D-CD-0165	16.5	73	D18	123	HA	HB
HN-3D-CD-0166	16.6	73	D18	123	HA	HB
HN-3D-CD-0167	16.7	73	D18	123	HA	HB
HN-3D-CD-0168	16.8	73	D18	123	HA	HB
HN-3D-CD-0169	16.9	73	D18	123	HA	HB
HN-3D-CD-0170	17	73	D18	123	HA	HB
HN-3D-CD-0171	17.1	73	D18	123	HA	HB
HN-3D-CD-0172	17.2	73	D18	123	HA	HB
HN-3D-CD-0173	17.3	73	D18	123	HA	HB
HN-3D-CD-0174	17.4	73	D18	123	HA	HB
HN-3D-CD-0175	17.5	73	D18	123	HA	HB
HN-3D-CD-0176	17.6	73	D18	123	HA	HB
HN-3D-CD-0177	17.7	73	D18	123	HA	HB
HN-3D-CD-0178	17.8	73	D18	123	HA	HB
HN-3D-CD-0179	17.9	73	D18	123	HA	HB
HN-3D-CD-0180	18	73	D18	123	HA	HB
HN-3D-CD-0181	18.1	79	D20	131	HA	HB
HN-3D-CD-0182	18.2	79	D20	131	HA	HB
HN-3D-CD-0183	18.3	79	D20	131	HA	HB
HN-3D-CD-0184	18.4	79	D20	131	HA	HB
HN-3D-CD-0185	18.5	79	D20	131	HA	HB
HN-3D-CD-0186	18.6	79	D20	131	HA	HB
HN-3D-CD-0187	18.7	79	D20	131	HA	HB
HN-3D-CD-0188	18.8	79	D20	131	HA	HB
HN-3D-CD-0189	18.9	79	D20	131	HA	HB
HN-3D-CD-0190	19	79	D20	131	HA	HB
HN-3D-CD-0191	19.1	79	D20	131	HA	HB
HN-3D-CD-0192	19.2	79	D20	131	HA	HB
HN-3D-CD-0193	19.3	79	D20	131	HA	HB
HN-3D-CD-0194	19.4	79	D20	131	HA	HB
HN-3D-CD-0195	19.5	79	D20	131	HA	HB
HN-3D-CD-0196	19.6	79	D20	131	HA	HB
HN-3D-CD-0197	19.7	79	D20	131	HA	HB
HN-3D-CD-0198	19.8	79	D20	131	HA	HB
HN-3D-CD-0199	19.9	79	D20	131	HA	HB
HN-3D-CD-0200	20	79	D20	131	HA	HB

HN-5D-TD

5D Carbide drill



2 | 140° | o.IK | TiXCo3 | HA | HB

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0010	1	6	D4	50	HA	-
HN-5D-TD-0011	1.1	6	D4	50	HA	-
HN-5D-TD-0012	1.2	7	D4	50	HA	-
HN-5D-TD-0013	1.3	8	D4	50	HA	-
HN-5D-TD-0014	1.4	9	D4	50	HA	-
HN-5D-TD-0015	1.5	9	D4	50	HA	-
HN-5D-TD-0016	1.6	10	D4	50	HA	-
HN-5D-TD-0017	1.7	10	D4	50	HA	-
HN-5D-TD-0018	1.8	11	D4	50	HA	-
HN-5D-TD-0019	1.9	12	D4	50	HA	-
HN-5D-TD-0020	2	12	D4	50	HA	-
HN-5D-TD-0021	2.1	13	D4	50	HA	-
HN-5D-TD-0022	2.2	13	D4	50	HA	-
HN-5D-TD-0023	2.3	14	D4	50	HA	-
HN-5D-TD-0024	2.4	14	D4	50	HA	-
HN-5D-TD-0025	2.5	15	D4	50	HA	-
HN-5D-TD-0026	2.6	16	D4	50	HA	-
HN-5D-TD-0027	2.7	16	D4	50	HA	-
HN-5D-TD-0028	2.8	17	D4	50	HA	-
HN-5D-TD-0029	2.9	17	D4	50	HA	-
HN-5D-TD-0030	3	28	D4	66	HA	-
HN-5D-TD-0031	3.1	28	D4	66	HA	-
HN-5D-TD-0032	3.2	28	D4	66	HA	-
HN-5D-TD-0033	3.3	28	D4	66	HA	-
HN-5D-TD-0034	3.4	28	D4	66	HA	-
HN-5D-TD-0035	3.5	28	D4	66	HA	-
HN-5D-TD-0036	3.6	28	D4	66	HA	-
HN-5D-TD-0037	3.7	28	D4	66	HA	-
HN-5D-TD-0038	3.8	36	D4	66	HA	-
HN-5D-TD-0039	3.9	36	D4	66	HA	-
HN-5D-TD-0040	4	36	D4	66	HA	-
HN-5D-TD-0010-D6	1	6	D6	74	HA	HB
HN-5D-TD-0011-D6	1.1	6	D6	74	HA	HB
HN-5D-TD-0012-D6	1.2	7	D6	74	HA	HB
HN-5D-TD-0013-D6	1.3	8	D6	74	HA	HB
HN-5D-TD-0014-D6	1.4	9	D6	74	HA	HB
HN-5D-TD-0015-D6	1.5	9	D6	74	HA	HB
HN-5D-TD-0016-D6	1.6	10	D6	74	HA	HB
HN-5D-TD-0017-D6	1.7	10	D6	74	HA	HB
HN-5D-TD-0018-D6	1.8	11	D6	74	HA	HB
HN-5D-TD-0019-D6	1.9	12	D6	74	HA	HB
HN-5D-TD-0020-D6	2	12	D6	74	HA	HB
HN-5D-TD-0021-D6	2.1	13	D6	74	HA	HB
HN-5D-TD-0022-D6	2.2	13	D6	74	HA	HB
HN-5D-TD-0023-D6	2.3	14	D6	74	HA	HB
HN-5D-TD-0024-D6	2.4	14	D6	74	HA	HB
HN-5D-TD-0025-D6	2.5	15	D6	74	HA	HB
HN-5D-TD-0026-D6	2.6	16	D6	74	HA	HB

HA | HB

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0027-D6	2.7	16	D6	74	HA	HB
HN-5D-TD-0028-D6	2.8	17	D6	74	HA	HB
HN-5D-TD-0029-D6	2.9	17	D6	74	HA	HB
HN-5D-TD-0030-D6	3	28	D6	74	HA	HB
HN-5D-TD-0031-D6	3.1	28	D6	74	HA	HB
HN-5D-TD-0032-D6	3.2	28	D6	74	HA	HB
HN-5D-TD-0033-D6	3.3	28	D6	74	HA	HB
HN-5D-TD-0034-D6	3.4	28	D6	74	HA	HB
HN-5D-TD-0035-D6	3.5	28	D6	74	HA	HB
HN-5D-TD-0036-D6	3.6	36	D6	74	HA	HB
HN-5D-TD-0037-D6	3.7	36	D6	74	HA	HB
HN-5D-TD-0038-D6	3.8	36	D6	74	HA	HB
HN-5D-TD-0039-D6	3.9	36	D6	74	HA	HB
HN-5D-TD-0040-D6	4	36	D6	74	HA	HB
HN-5D-TD-0041	4.1	36	D6	74	HA	HB
HN-5D-TD-0042	4.2	36	D6	74	HA	HB
HN-5D-TD-0043	4.3	36	D6	74	HA	HB
HN-5D-TD-0044	4.4	36	D6	74	HA	HB
HN-5D-TD-0045	4.5	36	D6	74	HA	HB
HN-5D-TD-0046	4.6	36	D6	74	HA	HB
HN-5D-TD-0047	4.7	36	D6	74	HA	HB
HN-5D-TD-0048	4.8	44	D6	82	HA	HB
HN-5D-TD-0049	4.9	44	D6	82	HA	HB
HN-5D-TD-0050	5	44	D6	82	HA	HB
HN-5D-TD-0051	5.1	44	D6	82	HA	HB
HN-5D-TD-0052	5.2	44	D6	82	HA	HB
HN-5D-TD-0053	5.3	44	D6	82	HA	HB
HN-5D-TD-0054	5.4	44	D6	82	HA	HB
HN-5D-TD-0055	5.5	44	D6	82	HA	HB
HN-5D-TD-0056	5.6	44	D6	82	HA	HB
HN-5D-TD-0057	5.7	44	D6	82	HA	HB
HN-5D-TD-0058	5.8	44	D6	82	HA	HB
HN-5D-TD-0059	5.9	44	D6	82	HA	HB
HN-5D-TD-0060	6	44	D6	82	HA	HB
HN-5D-TD-0061	6.1	53	D8	91	HA	HB
HN-5D-TD-0062	6.2	53	D8	91	HA	HB
HN-5D-TD-0063	6.3	53	D8	91	HA	HB
HN-5D-TD-0064	6.4	53	D8	91	HA	HB
HN-5D-TD-0065	6.5	53	D8	91	HA	HB
HN-5D-TD-0066	6.6	53	D8	91	HA	HB
HN-5D-TD-0067	6.7	53	D8	91	HA	HB
HN-5D-TD-0068	6.8	53	D8	91	HA	HB
HN-5D-TD-0069	6.9	53	D8	91	HA	HB
HN-5D-TD-0070	7	53	D8	91	HA	HB
HN-5D-TD-0071	7.1	53	D8	91	HA	HB
HN-5D-TD-0072	7.2	53	D8	91	HA	HB
HN-5D-TD-0073	7.3	53	D8	91	HA	HB
HN-5D-TD-0074	7.4	53	D8	91	HA	HB

HN-5D-TD

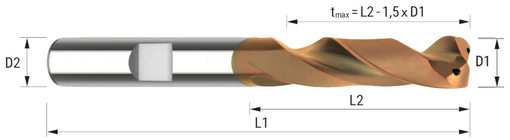
5D Carbide drill

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0075	7.5	53	D8	91	HA	HB
HN-5D-TD-0076	7.6	53	D8	91	HA	HB
HN-5D-TD-0077	7.7	53	D8	91	HA	HB
HN-5D-TD-0078	7.8	53	D8	91	HA	HB
HN-5D-TD-0079	7.9	53	D8	91	HA	HB
HN-5D-TD-0080	8	53	D8	91	HA	HB
HN-5D-TD-0081	8.1	61	D10	103	HA	HB
HN-5D-TD-0082	8.2	61	D10	103	HA	HB
HN-5D-TD-0083	8.3	61	D10	103	HA	HB
HN-5D-TD-0084	8.4	61	D10	103	HA	HB
HN-5D-TD-0085	8.5	61	D10	103	HA	HB
HN-5D-TD-0086	8.6	61	D10	103	HA	HB
HN-5D-TD-0087	8.7	61	D10	103	HA	HB
HN-5D-TD-0088	8.8	61	D10	103	HA	HB
HN-5D-TD-0089	8.9	61	D10	103	HA	HB
HN-5D-TD-0090	9	61	D10	103	HA	HB
HN-5D-TD-0091	9.1	61	D10	103	HA	HB
HN-5D-TD-0092	9.2	61	D10	103	HA	HB
HN-5D-TD-0093	9.3	61	D10	103	HA	HB
HN-5D-TD-0094	9.4	61	D10	103	HA	HB
HN-5D-TD-0095	9.5	61	D10	103	HA	HB
HN-5D-TD-0096	9.6	61	D10	103	HA	HB
HN-5D-TD-0097	9.7	61	D10	103	HA	HB
HN-5D-TD-0098	9.8	61	D10	103	HA	HB
HN-5D-TD-0099	9.9	61	D10	103	HA	HB
HN-5D-TD-0100	10	61	D10	103	HA	HB
HN-5D-TD-0101	10.1	71	D12	118	HA	HB
HN-5D-TD-0102	10.2	71	D12	118	HA	HB
HN-5D-TD-0103	10.3	71	D12	118	HA	HB
HN-5D-TD-0104	10.4	71	D12	118	HA	HB
HN-5D-TD-0105	10.5	71	D12	118	HA	HB
HN-5D-TD-0106	10.6	71	D12	118	HA	HB
HN-5D-TD-0107	10.7	71	D12	118	HA	HB
HN-5D-TD-0108	10.8	71	D12	118	HA	HB
HN-5D-TD-0109	10.9	71	D12	118	HA	HB
HN-5D-TD-0110	11	71	D12	118	HA	HB
HN-5D-TD-0111	11.1	71	D12	118	HA	HB
HN-5D-TD-0112	11.2	71	D12	118	HA	HB
HN-5D-TD-0113	11.3	71	D12	118	HA	HB
HN-5D-TD-0114	11.4	71	D12	118	HA	HB
HN-5D-TD-0115	11.5	71	D12	118	HA	HB
HN-5D-TD-0116	11.6	71	D12	118	HA	HB
HN-5D-TD-0117	11.7	71	D12	118	HA	HB
HN-5D-TD-0118	11.8	71	D12	118	HA	HB
HN-5D-TD-0119	11.9	71	D12	118	HA	HB
HN-5D-TD-0120	12	71	D12	118	HA	HB
HN-5D-TD-0121	12.1	77	D14	124	HA	HB
HN-5D-TD-0122	12.2	77	D14	124	HA	HB
HN-5D-TD-0123	12.3	77	D14	124	HA	HB
HN-5D-TD-0124	12.4	77	D14	124	HA	HB
HN-5D-TD-0125	12.5	77	D14	124	HA	HB
HN-5D-TD-0126	12.6	77	D14	124	HA	HB
HN-5D-TD-0127	12.7	77	D14	124	HA	HB
HN-5D-TD-0128	12.8	77	D14	124	HA	HB
HN-5D-TD-0129	12.9	77	D14	124	HA	HB
HN-5D-TD-0130	13	77	D14	124	HA	HB
HN-5D-TD-0131	13.1	77	D14	124	HA	HB
HN-5D-TD-0132	13.2	77	D14	124	HA	HB
HN-5D-TD-0133	13.3	77	D14	124	HA	HB
HN-5D-TD-0134	13.4	77	D14	124	HA	HB
HN-5D-TD-0135	13.5	77	D14	124	HA	HB
HN-5D-TD-0136	13.6	77	D14	124	HA	HB
HN-5D-TD-0137	13.7	77	D14	124	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0138	13.8	77	D14	124	HA	HB
HN-5D-TD-0139	13.9	77	D14	124	HA	HB
HN-5D-TD-0140	14	77	D14	124	HA	HB
HN-5D-TD-0141	14.1	83	D16	133	HA	HB
HN-5D-TD-0142	14.2	83	D16	133	HA	HB
HN-5D-TD-0143	14.3	83	D16	133	HA	HB
HN-5D-TD-0144	14.4	83	D16	133	HA	HB
HN-5D-TD-0145	14.5	83	D16	133	HA	HB
HN-5D-TD-0146	14.6	83	D16	133	HA	HB
HN-5D-TD-0147	14.7	83	D16	133	HA	HB
HN-5D-TD-0148	14.8	83	D16	133	HA	HB
HN-5D-TD-0149	14.9	83	D16	133	HA	HB
HN-5D-TD-0150	15	83	D16	133	HA	HB
HN-5D-TD-0151	15.1	83	D16	133	HA	HB
HN-5D-TD-0152	15.2	83	D16	133	HA	HB
HN-5D-TD-0153	15.3	83	D16	133	HA	HB
HN-5D-TD-0154	15.4	83	D16	133	HA	HB
HN-5D-TD-0155	15.5	83	D16	133	HA	HB
HN-5D-TD-0156	15.6	83	D16	133	HA	HB
HN-5D-TD-0157	15.7	83	D16	133	HA	HB
HN-5D-TD-0158	15.8	83	D16	133	HA	HB
HN-5D-TD-0159	15.9	83	D16	133	HA	HB
HN-5D-TD-0160	16	83	D16	133	HA	HB
HN-5D-TD-0161	16.1	93	D18	143	HA	HB
HN-5D-TD-0162	16.2	93	D18	143	HA	HB
HN-5D-TD-0163	16.3	93	D18	143	HA	HB
HN-5D-TD-0164	16.4	93	D18	143	HA	HB
HN-5D-TD-0165	16.5	93	D18	143	HA	HB
HN-5D-TD-0166	16.6	93	D18	143	HA	HB
HN-5D-TD-0167	16.7	93	D18	143	HA	HB
HN-5D-TD-0168	16.8	93	D18	143	HA	HB
HN-5D-TD-0169	16.9	93	D18	143	HA	HB
HN-5D-TD-0170	17	93	D18	143	HA	HB
HN-5D-TD-0171	17.1	93	D18	143	HA	HB
HN-5D-TD-0172	17.2	93	D18	143	HA	HB
HN-5D-TD-0173	17.3	93	D18	143	HA	HB
HN-5D-TD-0174	17.4	93	D18	143	HA	HB
HN-5D-TD-0175	17.5	93	D18	143	HA	HB
HN-5D-TD-0176	17.6	93	D18	143	HA	HB
HN-5D-TD-0177	17.7	93	D18	143	HA	HB
HN-5D-TD-0178	17.8	93	D18	143	HA	HB
HN-5D-TD-0179	17.9	93	D18	143	HA	HB
HN-5D-TD-0180	18	93	D18	143	HA	HB
HN-5D-TD-0181	18.1	101	D20	153	HA	HB
HN-5D-TD-0182	18.2	101	D20	153	HA	HB
HN-5D-TD-0183	18.3	101	D20	153	HA	HB
HN-5D-TD-0184	18.4	101	D20	153	HA	HB
HN-5D-TD-0185	18.5	101	D20	153	HA	HB
HN-5D-TD-0186	18.6	101	D20	153	HA	HB
HN-5D-TD-0187	18.7	101	D20	153	HA	HB
HN-5D-TD-0188	18.8	101	D20	153	HA	HB
HN-5D-TD-0189	18.9	101	D20	153	HA	HB
HN-5D-TD-0190	19	101	D20	153	HA	HB
HN-5D-TD-0191	19.1	101	D20	153	HA	HB
HN-5D-TD-0192	19.2	101	D20	153	HA	HB
HN-5D-TD-0193	19.3	101	D20	153	HA	HB
HN-5D-TD-0194	19.4	101	D20	153	HA	HB
HN-5D-TD-0195	19.5	101	D20	153	HA	HB
HN-5D-TD-0196	19.6	101	D20	153	HA	HB
HN-5D-TD-0197	19.7	101	D20	153	HA	HB
HN-5D-TD-0198	19.8	101	D20	153	HA	HB
HN-5D-TD-0199	19.9	101	D20	153	HA	HB
HN-5D-TD-0200	20	101	D20	153	HA	HB

HN-5D-CD

5D Carbide Drill With Cooling Hole



2 | 140° | IK | TiXCo3

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0030-D6	3	28	D6	74	HA	HB
HN-5D-CD-0031-D6	3.1	28	D6	74	HA	HB
HN-5D-CD-0032-D6	3.2	28	D6	74	HA	HB
HN-5D-CD-0033-D6	3.3	28	D6	74	HA	HB
HN-5D-CD-0034-D6	3.4	28	D6	74	HA	HB
HN-5D-CD-0035-D6	3.5	28	D6	74	HA	HB
HN-5D-CD-0036-D6	3.6	28	D6	74	HA	HB
HN-5D-CD-0037-D6	3.7	28	D6	74	HA	HB
HN-5D-CD-0038-D6	3.8	36	D6	74	HA	HB
HN-5D-CD-0039-D6	3.9	36	D6	74	HA	HB
HN-5D-CD-0040-D6	4	36	D6	74	HA	HB
HN-5D-CD-0041	4.1	36	D6	74	HA	HB
HN-5D-CD-0042	4.2	36	D6	74	HA	HB
HN-5D-CD-0043	4.3	36	D6	74	HA	HB
HN-5D-CD-0044	4.4	36	D6	74	HA	HB
HN-5D-CD-0045	4.5	36	D6	74	HA	HB
HN-5D-CD-0046	4.6	36	D6	74	HA	HB
HN-5D-CD-0047	4.7	36	D6	74	HA	HB
HN-5D-CD-0048	4.8	44	D6	82	HA	HB
HN-5D-CD-0049	4.9	44	D6	82	HA	HB
HN-5D-CD-0050	5	44	D6	82	HA	HB
HN-5D-CD-0051	5.1	44	D6	82	HA	HB
HN-5D-CD-0052	5.2	44	D6	82	HA	HB
HN-5D-CD-0053	5.3	44	D6	82	HA	HB
HN-5D-CD-0054	5.4	44	D6	82	HA	HB
HN-5D-CD-0055	5.5	44	D6	82	HA	HB
HN-5D-CD-0056	5.6	44	D6	82	HA	HB
HN-5D-CD-0057	5.7	44	D6	82	HA	HB
HN-5D-CD-0058	5.8	44	D6	82	HA	HB
HN-5D-CD-0059	5.9	44	D6	82	HA	HB
HN-5D-CD-0060	6	44	D6	82	HA	HB
HN-5D-CD-0061	6.1	53	D8	91	HA	HB
HN-5D-CD-0062	6.2	53	D8	91	HA	HB
HN-5D-CD-0063	6.3	53	D8	91	HA	HB
HN-5D-CD-0064	6.4	53	D8	91	HA	HB
HN-5D-CD-0065	6.5	53	D8	91	HA	HB
HN-5D-CD-0066	6.6	53	D8	91	HA	HB
HN-5D-CD-0067	6.7	53	D8	91	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0068	6.8	53	D8	91	HA	HB
HN-5D-CD-0069	6.9	53	D8	91	HA	HB
HN-5D-CD-0070	7	53	D8	91	HA	HB
HN-5D-CD-0071	7.1	53	D8	91	HA	HB
HN-5D-CD-0072	7.2	53	D8	91	HA	HB
HN-5D-CD-0073	7.3	53	D8	91	HA	HB
HN-5D-CD-0074	7.4	53	D8	91	HA	HB
HN-5D-CD-0075	7.5	53	D8	91	HA	HB
HN-5D-CD-0076	7.6	53	D8	91	HA	HB
HN-5D-CD-0077	7.7	53	D8	91	HA	HB
HN-5D-CD-0078	7.8	53	D8	91	HA	HB
HN-5D-CD-0079	7.9	53	D8	91	HA	HB
HN-5D-CD-0080	8	53	D8	91	HA	HB
HN-5D-CD-0081	8.1	61	D10	103	HA	HB
HN-5D-CD-0082	8.2	61	D10	103	HA	HB
HN-5D-CD-0083	8.3	61	D10	103	HA	HB
HN-5D-CD-0084	8.4	61	D10	103	HA	HB
HN-5D-CD-0085	8.5	61	D10	103	HA	HB
HN-5D-CD-0086	8.6	61	D10	103	HA	HB
HN-5D-CD-0087	8.7	61	D10	103	HA	HB
HN-5D-CD-0088	8.8	61	D10	103	HA	HB
HN-5D-CD-0089	8.9	61	D10	103	HA	HB
HN-5D-CD-0090	9	61	D10	103	HA	HB
HN-5D-CD-0091	9.1	61	D10	103	HA	HB
HN-5D-CD-0092	9.2	61	D10	103	HA	HB
HN-5D-CD-0093	9.3	61	D10	103	HA	HB
HN-5D-CD-0094	9.4	61	D10	103	HA	HB
HN-5D-CD-0095	9.5	61	D10	103	HA	HB
HN-5D-CD-0096	9.6	61	D10	103	HA	HB
HN-5D-CD-0097	9.7	61	D10	103	HA	HB
HN-5D-CD-0098	9.8	61	D10	103	HA	HB
HN-5D-CD-0099	9.9	61	D10	103	HA	HB
HN-5D-CD-0100	10	61	D10	103	HA	HB
HN-5D-CD-0101	10.1	71	D12	118	HA	HB
HN-5D-CD-0102	10.2	71	D12	118	HA	HB
HN-5D-CD-0103	10.3	71	D12	118	HA	HB
HN-5D-CD-0104	10.4	71	D12	118	HA	HB
HN-5D-CD-0105	10.5	71	D12	118	HA	HB

HN-5D-CD

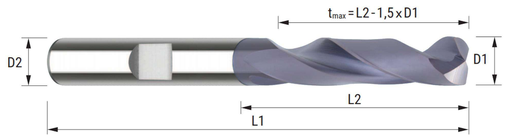
5D Carbide Drill With Cooling Hole

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0106	10.6	71	D12	118	HA	HB
HN-5D-CD-0107	10.7	71	D12	118	HA	HB
HN-5D-CD-0108	10.8	71	D12	118	HA	HB
HN-5D-CD-0109	10.9	71	D12	118	HA	HB
HN-5D-CD-0110	11	71	D12	118	HA	HB
HN-5D-CD-0111	11.1	71	D12	118	HA	HB
HN-5D-CD-0112	11.2	71	D12	118	HA	HB
HN-5D-CD-0113	11.3	71	D12	118	HA	HB
HN-5D-CD-0114	11.4	71	D12	118	HA	HB
HN-5D-CD-0115	11.5	71	D12	118	HA	HB
HN-5D-CD-0116	11.6	71	D12	118	HA	HB
HN-5D-CD-0117	11.7	71	D12	118	HA	HB
HN-5D-CD-0118	11.8	71	D12	118	HA	HB
HN-5D-CD-0119	11.9	71	D12	118	HA	HB
HN-5D-CD-0120	12	71	D12	118	HA	HB
HN-5D-CD-0121	12.1	77	D14	124	HA	HB
HN-5D-CD-0122	12.2	77	D14	124	HA	HB
HN-5D-CD-0123	12.3	77	D14	124	HA	HB
HN-5D-CD-0124	12.4	77	D14	124	HA	HB
HN-5D-CD-0125	12.5	77	D14	124	HA	HB
HN-5D-CD-0126	12.6	77	D14	124	HA	HB
HN-5D-CD-0127	12.7	77	D14	124	HA	HB
HN-5D-CD-0128	12.8	77	D14	124	HA	HB
HN-5D-CD-0129	12.9	77	D14	124	HA	HB
HN-5D-CD-0130	13	77	D14	124	HA	HB
HN-5D-CD-0131	13.1	77	D14	124	HA	HB
HN-5D-CD-0132	13.2	77	D14	124	HA	HB
HN-5D-CD-0133	13.3	77	D14	124	HA	HB
HN-5D-CD-0134	13.4	77	D14	124	HA	HB
HN-5D-CD-0135	13.5	77	D14	124	HA	HB
HN-5D-CD-0136	13.6	77	D14	124	HA	HB
HN-5D-CD-0137	13.7	77	D14	124	HA	HB
HN-5D-CD-0138	13.8	77	D14	124	HA	HB
HN-5D-CD-0139	13.9	77	D14	124	HA	HB
HN-5D-CD-0140	14	77	D14	124	HA	HB
HN-5D-CD-0141	14.1	83	D16	133	HA	HB
HN-5D-CD-0142	14.2	83	D16	133	HA	HB
HN-5D-CD-0143	14.3	83	D16	133	HA	HB
HN-5D-CD-0144	14.4	83	D16	133	HA	HB
HN-5D-CD-0145	14.5	83	D16	133	HA	HB
HN-5D-CD-0146	14.6	83	D16	133	HA	HB
HN-5D-CD-0147	14.7	83	D16	133	HA	HB
HN-5D-CD-0148	14.8	83	D16	133	HA	HB
HN-5D-CD-0149	14.9	83	D16	133	HA	HB
HN-5D-CD-0150	15	83	D16	133	HA	HB
HN-5D-CD-0151	15.1	83	D16	133	HA	HB
HN-5D-CD-0152	15.2	83	D16	133	HA	HB
HN-5D-CD-0153	15.3	83	D16	133	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0154	15.4	83	D16	133	HA	HB
HN-5D-CD-0155	15.5	83	D16	133	HA	HB
HN-5D-CD-0156	15.6	83	D16	133	HA	HB
HN-5D-CD-0157	15.7	83	D16	133	HA	HB
HN-5D-CD-0158	15.8	83	D16	133	HA	HB
HN-5D-CD-0159	15.9	83	D16	133	HA	HB
HN-5D-CD-0160	16	83	D16	133	HA	HB
HN-5D-CD-0161	16.1	93	D18	143	HA	HB
HN-5D-CD-0162	16.2	93	D18	143	HA	HB
HN-5D-CD-0163	16.3	93	D18	143	HA	HB
HN-5D-CD-0164	16.4	93	D18	143	HA	HB
HN-5D-CD-0165	16.5	93	D18	143	HA	HB
HN-5D-CD-0166	16.6	93	D18	143	HA	HB
HN-5D-CD-0167	16.7	93	D18	143	HA	HB
HN-5D-CD-0168	16.8	93	D18	143	HA	HB
HN-5D-CD-0169	16.9	93	D18	143	HA	HB
HN-5D-CD-0170	17	93	D18	143	HA	HB
HN-5D-CD-0171	17.1	93	D18	143	HA	HB
HN-5D-CD-0172	17.2	93	D18	143	HA	HB
HN-5D-CD-0173	17.3	93	D18	143	HA	HB
HN-5D-CD-0174	17.4	93	D18	143	HA	HB
HN-5D-CD-0175	17.5	93	D18	143	HA	HB
HN-5D-CD-0176	17.6	93	D18	143	HA	HB
HN-5D-CD-0177	17.7	93	D18	143	HA	HB
HN-5D-CD-0178	17.8	93	D18	143	HA	HB
HN-5D-CD-0179	17.9	93	D18	143	HA	HB
HN-5D-CD-0180	18	93	D18	143	HA	HB
HN-5D-CD-0181	18.1	101	D20	153	HA	HB
HN-5D-CD-0182	18.2	101	D20	153	HA	HB
HN-5D-CD-0183	18.3	101	D20	153	HA	HB
HN-5D-CD-0184	18.4	101	D20	153	HA	HB
HN-5D-CD-0185	18.5	101	D20	153	HA	HB
HN-5D-CD-0186	18.6	101	D20	153	HA	HB
HN-5D-CD-0187	18.7	101	D20	153	HA	HB
HN-5D-CD-0188	18.8	101	D20	153	HA	HB
HN-5D-CD-0189	18.9	101	D20	153	HA	HB
HN-5D-CD-0190	19	101	D20	153	HA	HB
HN-5D-CD-0191	19.1	101	D20	153	HA	HB
HN-5D-CD-0192	19.2	101	D20	153	HA	HB
HN-5D-CD-0193	19.3	101	D20	153	HA	HB
HN-5D-CD-0194	19.4	101	D20	153	HA	HB
HN-5D-CD-0195	19.5	101	D20	153	HA	HB
HN-5D-CD-0196	19.6	101	D20	153	HA	HB
HN-5D-CD-0197	19.7	101	D20	153	HA	HB
HN-5D-CD-0198	19.8	101	D20	153	HA	HB
HN-5D-CD-0199	19.9	101	D20	153	HA	HB
HN-5D-CD-0200	20	101	D20	153	HA	HB

HN-3D-TD

3D Carbide drill



2 | 140° | o.IK | ALCRONA | HA | HB

Order Number	d	l	D	L	HA	HB
HN-3D-TD-0010-A	1	4	4	50	HA	-
HN-3D-TD-0011-A	1.1	4	4	50	HA	-
HN-3D-TD-0012-A	1.2	4	4	50	HA	-
HN-3D-TD-0013-A	1.3	5	4	50	HA	-
HN-3D-TD-0014-A	1.4	6	4	50	HA	-
HN-3D-TD-0015-A	1.5	6	4	50	HA	-
HN-3D-TD-0016-A	1.6	6	4	50	HA	-
HN-3D-TD-0017-A	1.7	7	4	50	HA	-
HN-3D-TD-0018-A	1.8	7	4	50	HA	-
HN-3D-TD-0019-A	1.9	8	4	50	HA	-
HN-3D-TD-0020-A	2	8	4	50	HA	-
HN-3D-TD-0021-A	2.1	9	4	50	HA	-
HN-3D-TD-0022-A	2.2	9	4	50	HA	-
HN-3D-TD-0023-A	2.3	9	4	50	HA	-
HN-3D-TD-0024-A	2.4	10	4	50	HA	-
HN-3D-TD-0025-A	2.5	10	4	50	HA	-
HN-3D-TD-0026-A	2.6	11	4	50	HA	-
HN-3D-TD-0027-A	2.7	11	4	50	HA	-
HN-3D-TD-0028-A	2.8	11	4	50	HA	-
HN-3D-TD-0029-A	2.9	12	4	50	HA	-
HN-3D-TD-0030-A	3	20	4	62	HA	-
HN-3D-TD-0031-A	3.1	20	4	62	HA	-
HN-3D-TD-0032-A	3.2	20	4	62	HA	-
HN-3D-TD-0033-A	3.3	20	4	62	HA	-
HN-3D-TD-0034-A	3.4	20	4	62	HA	-
HN-3D-TD-0035-A	3.5	20	4	62	HA	-
HN-3D-TD-0036-A	3.6	20	4	62	HA	-
HN-3D-TD-0037-A	3.7	20	4	62	HA	-
HN-3D-TD-0038-A	3.8	24	4	62	HA	-
HN-3D-TD-0039-A	3.9	24	4	62	HA	-
HN-3D-TD-0040-A	4	24	4	62	HA	-
HN-3D-TD-0010-D6-A	1	4	6	66	HA	HB
HN-3D-TD-0011-D6-A	1.1	4	6	66	HA	HB
HN-3D-TD-0012-D6-A	1.2	4	6	66	HA	HB
HN-3D-TD-0013-D6-A	1.3	5	6	66	HA	HB
HN-3D-TD-0014-D6-A	1.4	6	6	66	HA	HB
HN-3D-TD-0015-D6-A	1.5	6	6	66	HA	HB
HN-3D-TD-0016-D6-A	1.6	6	6	66	HA	HB
HN-3D-TD-0017-D6-A	1.7	7	6	66	HA	HB
HN-3D-TD-0018-D6-A	1.8	7	6	66	HA	HB
HN-3D-TD-0019-D6-A	1.9	8	6	66	HA	HB
HN-3D-TD-0020-D6-A	2	8	6	66	HA	HB
HN-3D-TD-0021-D6-A	2.1	9	6	66	HA	HB
HN-3D-TD-0022-D6-A	2.2	9	6	66	HA	HB
HN-3D-TD-0023-D6-A	2.3	9	6	66	HA	HB
HN-3D-TD-0024-D6-A	2.4	10	6	66	HA	HB
HN-3D-TD-0025-D6-A	2.5	10	6	66	HA	HB
HN-3D-TD-0026-D6-A	2.6	11	6	66	HA	HB

HA | HB

Order Number	d	l	D	L	HA	HB
HN-3D-TD-0027-D6-A	2.7	11	6	66	HA	HB
HN-3D-TD-0028-D6-A	2.8	11	6	66	HA	HB
HN-3D-TD-0029-D6-A	2.9	12	6	66	HA	HB
HN-3D-TD-0030-D6-A	3	20	6	66	HA	HB
HN-3D-TD-0031-D6-A	3.1	20	6	66	HA	HB
HN-3D-TD-0032-D6-A	3.2	20	6	66	HA	HB
HN-3D-TD-0033-D6-A	3.3	20	6	66	HA	HB
HN-3D-TD-0034-D6-A	3.4	20	6	66	HA	HB
HN-3D-TD-0035-D6-A	3.5	20	6	66	HA	HB
HN-3D-TD-0036-D6-A	3.6	20	6	66	HA	HB
HN-3D-TD-0037-D6-A	3.7	20	6	66	HA	HB
HN-3D-TD-0038-D6-A	3.8	24	6	66	HA	HB
HN-3D-TD-0039-D6-A	3.9	24	6	66	HA	HB
HN-3D-TD-0040-D6-A	4	24	6	66	HA	HB
HN-3D-TD-0041-A	4.1	24	6	66	HA	HB
HN-3D-TD-0042-A	4.2	24	6	66	HA	HB
HN-3D-TD-0043-A	4.3	24	6	66	HA	HB
HN-3D-TD-0044-A	4.4	24	6	66	HA	HB
HN-3D-TD-0045-A	4.5	24	6	66	HA	HB
HN-3D-TD-0046-A	4.6	24	6	66	HA	HB
HN-3D-TD-0047-A	4.7	24	6	66	HA	HB
HN-3D-TD-0048-A	4.8	28	6	66	HA	HB
HN-3D-TD-0049-A	4.9	28	6	66	HA	HB
HN-3D-TD-0050-A	5	28	6	66	HA	HB
HN-3D-TD-0051-A	5.1	28	6	66	HA	HB
HN-3D-TD-0052-A	5.2	28	6	66	HA	HB
HN-3D-TD-0053-A	5.3	28	6	66	HA	HB
HN-3D-TD-0054-A	5.4	28	6	66	HA	HB
HN-3D-TD-0055-A	5.5	28	6	66	HA	HB
HN-3D-TD-0056-A	5.6	28	6	66	HA	HB
HN-3D-TD-0057-A	5.7	28	6	66	HA	HB
HN-3D-TD-0058-A	5.8	28	6	66	HA	HB
HN-3D-TD-0059-A	5.9	28	6	66	HA	HB
HN-3D-TD-0060-A	6	28	6	66	HA	HB
HN-3D-TD-0061-A	6.1	34	8	79	HA	HB
HN-3D-TD-0062-A	6.2	34	8	79	HA	HB
HN-3D-TD-0063-A	6.3	34	8	79	HA	HB
HN-3D-TD-0064-A	6.4	34	8	79	HA	HB
HN-3D-TD-0065-A	6.5	34	8	79	HA	HB
HN-3D-TD-0066-A	6.6	34	8	79	HA	HB
HN-3D-TD-0067-A	6.7	34	8	79	HA	HB
HN-3D-TD-0068-A	6.8	34	8	79	HA	HB
HN-3D-TD-0069-A	6.9	34	8	79	HA	HB
HN-3D-TD-0070-A	7	34	8	79	HA	HB
HN-3D-TD-0071-A	7.1	41	8	79	HA	HB
HN-3D-TD-0072-A	7.2	41	8	79	HA	HB
HN-3D-TD-0073-A	7.3	41	8	79	HA	HB
HN-3D-TD-0074-A	7.4	41	8	79	HA	HB

HN-3D-TD

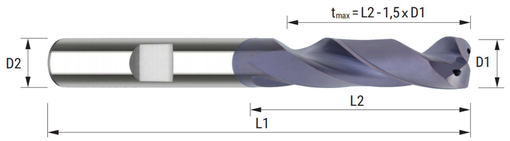
3D Carbide drill

Order Number	d	l	D	L	HA	HB
HN-3D-TD-0075-A	7.5	41	8	79	HA	HB
HN-3D-TD-0076-A	7.6	41	8	79	HA	HB
HN-3D-TD-0077-A	7.7	41	8	79	HA	HB
HN-3D-TD-0078-A	7.8	41	8	79	HA	HB
HN-3D-TD-0079-A	7.9	41	8	79	HA	HB
HN-3D-TD-0080-A	8	41	8	79	HA	HB
HN-3D-TD-0081-A	8.1	47	10	89	HA	HB
HN-3D-TD-0082-A	8.2	47	10	89	HA	HB
HN-3D-TD-0083-A	8.3	47	10	89	HA	HB
HN-3D-TD-0084-A	8.4	47	10	89	HA	HB
HN-3D-TD-0085-A	8.5	47	10	89	HA	HB
HN-3D-TD-0086-A	8.6	47	10	89	HA	HB
HN-3D-TD-0087-A	8.7	47	10	89	HA	HB
HN-3D-TD-0088-A	8.8	47	10	89	HA	HB
HN-3D-TD-0089-A	8.9	47	10	89	HA	HB
HN-3D-TD-0090-A	9	47	10	89	HA	HB
HN-3D-TD-0091-A	9.1	47	10	89	HA	HB
HN-3D-TD-0092-A	9.2	47	10	89	HA	HB
HN-3D-TD-0093-A	9.3	47	10	89	HA	HB
HN-3D-TD-0094-A	9.4	47	10	89	HA	HB
HN-3D-TD-0095-A	9.5	47	10	89	HA	HB
HN-3D-TD-0096-A	9.6	47	10	89	HA	HB
HN-3D-TD-0097-A	9.7	47	10	89	HA	HB
HN-3D-TD-0098-A	9.8	47	10	89	HA	HB
HN-3D-TD-0099-A	9.9	47	10	89	HA	HB
HN-3D-TD-0100-A	10	47	10	89	HA	HB
HN-3D-TD-0101-A	10.1	55	12	102	HA	HB
HN-3D-TD-0102-A	10.2	55	12	102	HA	HB
HN-3D-TD-0103-A	10.3	55	12	102	HA	HB
HN-3D-TD-0104-A	10.4	55	12	102	HA	HB
HN-3D-TD-0105-A	10.5	55	12	102	HA	HB
HN-3D-TD-0106-A	10.6	55	12	102	HA	HB
HN-3D-TD-0107-A	10.7	55	12	102	HA	HB
HN-3D-TD-0108-A	10.8	55	12	102	HA	HB
HN-3D-TD-0109-A	10.9	55	12	102	HA	HB
HN-3D-TD-0110-A	11	55	12	102	HA	HB
HN-3D-TD-0111-A	11.1	55	12	102	HA	HB
HN-3D-TD-0112-A	11.2	55	12	102	HA	HB
HN-3D-TD-0113-A	11.3	55	12	102	HA	HB
HN-3D-TD-0114-A	11.4	55	12	102	HA	HB
HN-3D-TD-0115-A	11.5	55	12	102	HA	HB
HN-3D-TD-0116-A	11.6	55	12	102	HA	HB
HN-3D-TD-0117-A	11.7	55	12	102	HA	HB
HN-3D-TD-0118-A	11.8	55	12	102	HA	HB
HN-3D-TD-0119-A	11.9	55	12	102	HA	HB
HN-3D-TD-0120-A	12	55	12	102	HA	HB
HN-3D-TD-0121-A	12.1	60	14	107	HA	HB
HN-3D-TD-0122-A	12.2	60	14	107	HA	HB
HN-3D-TD-0123-A	12.3	60	14	107	HA	HB
HN-3D-TD-0124-A	12.4	60	14	107	HA	HB
HN-3D-TD-0125-A	12.5	60	14	107	HA	HB
HN-3D-TD-0126-A	12.6	60	14	107	HA	HB
HN-3D-TD-0127-A	12.7	60	14	107	HA	HB
HN-3D-TD-0128-A	12.8	60	14	107	HA	HB
HN-3D-TD-0129-A	12.9	60	14	107	HA	HB
HN-3D-TD-0130-A	13	60	14	107	HA	HB
HN-3D-TD-0131-A	13.1	60	14	107	HA	HB
HN-3D-TD-0132-A	13.2	60	14	107	HA	HB
HN-3D-TD-0133-A	13.3	60	14	107	HA	HB
HN-3D-TD-0134-A	13.4	60	14	107	HA	HB
HN-3D-TD-0135-A	13.5	60	14	107	HA	HB
HN-3D-TD-0136-A	13.6	60	14	107	HA	HB
HN-3D-TD-0137-A	13.7	60	14	107	HA	HB

Order Number	d	l	D	L	HA	HB
HN-3D-TD-0138-A	13.8	60	14	107	HA	HB
HN-3D-TD-0139-A	13.9	60	14	107	HA	HB
HN-3D-TD-0140-A	14	60	14	107	HA	HB
HN-3D-TD-0141-A	14.1	65	16	115	HA	HB
HN-3D-TD-0142-A	14.2	65	16	115	HA	HB
HN-3D-TD-0143-A	14.3	65	16	115	HA	HB
HN-3D-TD-0144-A	14.4	65	16	115	HA	HB
HN-3D-TD-0145-A	14.5	65	16	115	HA	HB
HN-3D-TD-0146-A	14.6	65	16	115	HA	HB
HN-3D-TD-0147-A	14.7	65	16	115	HA	HB
HN-3D-TD-0148-A	14.8	65	16	115	HA	HB
HN-3D-TD-0149-A	14.9	65	16	115	HA	HB
HN-3D-TD-0150-A	15	65	16	115	HA	HB
HN-3D-TD-0151-A	15.1	65	16	115	HA	HB
HN-3D-TD-0152-A	15.2	65	16	115	HA	HB
HN-3D-TD-0153-A	15.3	65	16	115	HA	HB
HN-3D-TD-0154-A	15.4	65	16	115	HA	HB
HN-3D-TD-0155-A	15.5	65	16	115	HA	HB
HN-3D-TD-0156-A	15.6	65	16	115	HA	HB
HN-3D-TD-0157-A	15.7	65	16	115	HA	HB
HN-3D-TD-0158-A	15.8	65	16	115	HA	HB
HN-3D-TD-0159-A	15.9	65	16	115	HA	HB
HN-3D-TD-0160-A	16	65	16	115	HA	HB
HN-3D-TD-0161-A	16.1	73	18	123	HA	HB
HN-3D-TD-0162-A	16.2	73	18	123	HA	HB
HN-3D-TD-0163-A	16.3	73	18	123	HA	HB
HN-3D-TD-0164-A	16.4	73	18	123	HA	HB
HN-3D-TD-0165-A	16.5	73	18	123	HA	HB
HN-3D-TD-0166-A	16.6	73	18	123	HA	HB
HN-3D-TD-0167-A	16.7	73	18	123	HA	HB
HN-3D-TD-0168-A	16.8	73	18	123	HA	HB
HN-3D-TD-0169-A	16.9	73	18	123	HA	HB
HN-3D-TD-0170-A	17	73	18	123	HA	HB
HN-3D-TD-0171-A	17.1	73	18	123	HA	HB
HN-3D-TD-0172-A	17.2	73	18	123	HA	HB
HN-3D-TD-0173-A	17.3	73	18	123	HA	HB
HN-3D-TD-0174-A	17.4	73	18	123	HA	HB
HN-3D-TD-0175-A	17.5	73	18	123	HA	HB
HN-3D-TD-0176-A	17.6	73	18	123	HA	HB
HN-3D-TD-0177-A	17.7	73	18	123	HA	HB
HN-3D-TD-0178-A	17.8	73	18	123	HA	HB
HN-3D-TD-0179-A	17.9	73	18	123	HA	HB
HN-3D-TD-0180-A	18	73	18	123	HA	HB
HN-3D-TD-0181-A	18.1	79	20	131	HA	HB
HN-3D-TD-0182-A	18.2	79	20	131	HA	HB
HN-3D-TD-0183-A	18.3	79	20	131	HA	HB
HN-3D-TD-0184-A	18.4	79	20	131	HA	HB
HN-3D-TD-0185-A	18.5	79	20	131	HA	HB
HN-3D-TD-0186-A	18.6	79	20	131	HA	HB
HN-3D-TD-0187-A	18.7	79	20	131	HA	HB
HN-3D-TD-0188-A	18.8	79	20	131	HA	HB
HN-3D-TD-0189-A	18.9	79	20	131	HA	HB
HN-3D-TD-0190-A	19	79	20	131	HA	HB
HN-3D-TD-0191-A	19.1	79	20	131	HA	HB
HN-3D-TD-0192-A	19.2	79	20	131	HA	HB
HN-3D-TD-0193-A	19.3	79	20	131	HA	HB
HN-3D-TD-0194-A	19.4	79	20	131	HA	HB
HN-3D-TD-0195-A	19.5	79	20	131	HA	HB
HN-3D-TD-0196-A	19.6	79	20	131	HA	HB
HN-3D-TD-0197-A	19.7	79	20	131	HA	HB
HN-3D-TD-0198-A	19.8	79	20	131	HA	HB
HN-3D-TD-0199-A	19.9	79	20	131	HA	HB
HN-3D-TD-0200-A	20	79	20	131	HA	HB

HN-3D-CD

3D Carbide Drill With Cooling Hole



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Order Number	d	l	D	L	HA	HB
HN-3D-CD-0030-D6-A	3	20	D6	66	HA	HB
HN-3D-CD-0031-D6-A	3.1	20	D6	66	HA	HB
HN-3D-CD-0032-D6-A	3.2	20	D6	66	HA	HB
HN-3D-CD-0033-D6-A	3.3	20	D6	66	HA	HB
HN-3D-CD-0034-D6-A	3.4	20	D6	66	HA	HB
HN-3D-CD-0035-D6-A	3.5	20	D6	66	HA	HB
HN-3D-CD-0036-D6-A	3.6	20	D6	66	HA	HB
HN-3D-CD-0037-D6-A	3.7	20	D6	66	HA	HB
HN-3D-CD-0038-D6-A	3.8	24	D6	66	HA	HB
HN-3D-CD-0039-D6-A	3.9	24	D6	66	HA	HB
HN-3D-CD-0040-D6-A	4	24	D6	66	HA	HB
HN-3D-CD-0041-A	4.1	24	D6	66	HA	HB
HN-3D-CD-0042-A	4.2	24	D6	66	HA	HB
HN-3D-CD-0043-A	4.3	24	D6	66	HA	HB
HN-3D-CD-0044-A	4.4	24	D6	66	HA	HB
HN-3D-CD-0045-A	4.5	24	D6	66	HA	HB
HN-3D-CD-0046-A	4.6	24	D6	66	HA	HB
HN-3D-CD-0047-A	4.7	24	D6	66	HA	HB
HN-3D-CD-0048-A	4.8	28	D6	66	HA	HB
HN-3D-CD-0049-A	4.9	28	D6	66	HA	HB
HN-3D-CD-0050-A	5	28	D6	66	HA	HB
HN-3D-CD-0051-A	5.1	28	D6	66	HA	HB
HN-3D-CD-0052-A	5.2	28	D6	66	HA	HB
HN-3D-CD-0053-A	5.3	28	D6	66	HA	HB
HN-3D-CD-0054-A	5.4	28	D6	66	HA	HB
HN-3D-CD-0055-A	5.5	28	D6	66	HA	HB
HN-3D-CD-0056-A	5.6	28	D6	66	HA	HB
HN-3D-CD-0057-A	5.7	28	D6	66	HA	HB
HN-3D-CD-0058-A	5.8	28	D6	66	HA	HB
HN-3D-CD-0059-A	5.9	28	D6	66	HA	HB
HN-3D-CD-0060-A	6	28	D6	66	HA	HB
HN-3D-CD-0061-A	6.1	34	D8	79	HA	HB
HN-3D-CD-0062-A	6.2	34	D8	79	HA	HB
HN-3D-CD-0063-A	6.3	34	D8	79	HA	HB
HN-3D-CD-0064-A	6.4	34	D8	79	HA	HB
HN-3D-CD-0065-A	6.5	34	D8	79	HA	HB
HN-3D-CD-0066-A	6.6	34	D8	79	HA	HB
HN-3D-CD-0067-A	6.7	34	D8	79	HA	HB

Order Number	d	l	D	L	HA	HB
HN-3D-CD-0068-A	6.8	34	D8	79	HA	HB
HN-3D-CD-0069-A	6.9	34	D8	79	HA	HB
HN-3D-CD-0070-A	7	34	D8	79	HA	HB
HN-3D-CD-0071-A	7.1	41	D8	79	HA	HB
HN-3D-CD-0072-A	7.2	41	D8	79	HA	HB
HN-3D-CD-0073-A	7.3	41	D8	79	HA	HB
HN-3D-CD-0074-A	7.4	41	D8	79	HA	HB
HN-3D-CD-0075-A	7.5	41	D8	79	HA	HB
HN-3D-CD-0076-A	7.6	41	D8	79	HA	HB
HN-3D-CD-0077-A	7.7	41	D8	79	HA	HB
HN-3D-CD-0078-A	7.8	41	D8	79	HA	HB
HN-3D-CD-0079-A	7.9	41	D8	79	HA	HB
HN-3D-CD-0080-A	8	41	D8	79	HA	HB
HN-3D-CD-0081-A	8.1	47	D10	89	HA	HB
HN-3D-CD-0082-A	8.2	47	D10	89	HA	HB
HN-3D-CD-0083-A	8.3	47	D10	89	HA	HB
HN-3D-CD-0084-A	8.4	47	D10	89	HA	HB
HN-3D-CD-0085-A	8.5	47	D10	89	HA	HB
HN-3D-CD-0086-A	8.6	47	D10	89	HA	HB
HN-3D-CD-0087-A	8.7	47	D10	89	HA	HB
HN-3D-CD-0088-A	8.8	47	D10	89	HA	HB
HN-3D-CD-0089-A	8.9	47	D10	89	HA	HB
HN-3D-CD-0090-A	9	47	D10	89	HA	HB
HN-3D-CD-0091-A	9.1	47	D10	89	HA	HB
HN-3D-CD-0092-A	9.2	47	D10	89	HA	HB
HN-3D-CD-0093-A	9.3	47	D10	89	HA	HB
HN-3D-CD-0094-A	9.4	47	D10	89	HA	HB
HN-3D-CD-0095-A	9.5	47	D10	89	HA	HB
HN-3D-CD-0096-A	9.6	47	D10	89	HA	HB
HN-3D-CD-0097-A	9.7	47	D10	89	HA	HB
HN-3D-CD-0098-A	9.8	47	D10	89	HA	HB
HN-3D-CD-0099-A	9.9	47	D10	89	HA	HB
HN-3D-CD-0100-A	10	47	D10	89	HA	HB
HN-3D-CD-0101-A	10.1	55	D12	102	HA	HB
HN-3D-CD-0102-A	10.2	55	D12	102	HA	HB
HN-3D-CD-0103-A	10.3	55	D12	102	HA	HB
HN-3D-CD-0104-A	10.4	55	D12	102	HA	HB
HN-3D-CD-0105-A	10.5	55	D12	102	HA	HB

HN-3D-CD

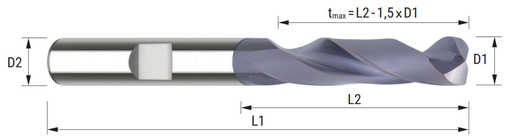
3D Carbide Drill With Cooling Hole

Order Number	d	l	D	L	HA	HB
HN-3D-CD-0106-A	10.6	55	D12	102	HA	HB
HN-3D-CD-0107-A	10.7	55	D12	102	HA	HB
HN-3D-CD-0108-A	10.8	55	D12	102	HA	HB
HN-3D-CD-0109-A	10.9	55	D12	102	HA	HB
HN-3D-CD-0110-A	11	55	D12	102	HA	HB
HN-3D-CD-0111-A	11.1	55	D12	102	HA	HB
HN-3D-CD-0112-A	11.2	55	D12	102	HA	HB
HN-3D-CD-0113-A	11.3	55	D12	102	HA	HB
HN-3D-CD-0114-A	11.4	55	D12	102	HA	HB
HN-3D-CD-0115-A	11.5	55	D12	102	HA	HB
HN-3D-CD-0116-A	11.6	55	D12	102	HA	HB
HN-3D-CD-0117-A	11.7	55	D12	102	HA	HB
HN-3D-CD-0118-A	11.8	55	D12	102	HA	HB
HN-3D-CD-0119-A	11.9	55	D12	102	HA	HB
HN-3D-CD-0120-A	12	55	D12	102	HA	HB
HN-3D-CD-0121-A	12.1	60	D14	107	HA	HB
HN-3D-CD-0122-A	12.2	60	D14	107	HA	HB
HN-3D-CD-0123-A	12.3	60	D14	107	HA	HB
HN-3D-CD-0124-A	12.4	60	D14	107	HA	HB
HN-3D-CD-0125-A	12.5	60	D14	107	HA	HB
HN-3D-CD-0126-A	12.6	60	D14	107	HA	HB
HN-3D-CD-0127-A	12.7	60	D14	107	HA	HB
HN-3D-CD-0128-A	12.8	60	D14	107	HA	HB
HN-3D-CD-0129-A	12.9	60	D14	107	HA	HB
HN-3D-CD-0130-A	13	60	D14	107	HA	HB
HN-3D-CD-0131-A	13.1	60	D14	107	HA	HB
HN-3D-CD-0132-A	13.2	60	D14	107	HA	HB
HN-3D-CD-0133-A	13.3	60	D14	107	HA	HB
HN-3D-CD-0134-A	13.4	60	D14	107	HA	HB
HN-3D-CD-0135-A	13.5	60	D14	107	HA	HB
HN-3D-CD-0136-A	13.6	60	D14	107	HA	HB
HN-3D-CD-0137-A	13.7	60	D14	107	HA	HB
HN-3D-CD-0138-A	13.8	60	D14	107	HA	HB
HN-3D-CD-0139-A	13.9	60	D14	107	HA	HB
HN-3D-CD-0140-A	14	60	D14	107	HA	HB
HN-3D-CD-0141-A	14.1	65	D16	115	HA	HB
HN-3D-CD-0142-A	14.2	65	D16	115	HA	HB
HN-3D-CD-0143-A	14.3	65	D16	115	HA	HB
HN-3D-CD-0144-A	14.4	65	D16	115	HA	HB
HN-3D-CD-0145-A	14.5	65	D16	115	HA	HB
HN-3D-CD-0146-A	14.6	65	D16	115	HA	HB
HN-3D-CD-0147-A	14.7	65	D16	115	HA	HB
HN-3D-CD-0148-A	14.8	65	D16	115	HA	HB
HN-3D-CD-0149-A	14.9	65	D16	115	HA	HB
HN-3D-CD-0150-A	15	65	D16	115	HA	HB
HN-3D-CD-0151-A	15.1	65	D16	115	HA	HB
HN-3D-CD-0152-A	15.2	65	D16	115	HA	HB
HN-3D-CD-0153-A	15.3	65	D16	115	HA	HB

Order Number	d	l	D	L	HA	HB
HN-3D-CD-0154-A	15.4	65	D16	115	HA	HB
HN-3D-CD-0155-A	15.5	65	D16	115	HA	HB
HN-3D-CD-0156-A	15.6	65	D16	115	HA	HB
HN-3D-CD-0157-A	15.7	65	D16	115	HA	HB
HN-3D-CD-0158-A	15.8	65	D16	115	HA	HB
HN-3D-CD-0159-A	15.9	65	D16	115	HA	HB
HN-3D-CD-0160-A	16	65	D16	115	HA	HB
HN-3D-CD-0161-A	16.1	73	D18	123	HA	HB
HN-3D-CD-0162-A	16.2	73	D18	123	HA	HB
HN-3D-CD-0163-A	16.3	73	D18	123	HA	HB
HN-3D-CD-0164-A	16.4	73	D18	123	HA	HB
HN-3D-CD-0165-A	16.5	73	D18	123	HA	HB
HN-3D-CD-0166-A	16.6	73	D18	123	HA	HB
HN-3D-CD-0167-A	16.7	73	D18	123	HA	HB
HN-3D-CD-0168-A	16.8	73	D18	123	HA	HB
HN-3D-CD-0169-A	16.9	73	D18	123	HA	HB
HN-3D-CD-0170-A	17	73	D18	123	HA	HB
HN-3D-CD-0171-A	17.1	73	D18	123	HA	HB
HN-3D-CD-0172-A	17.2	73	D18	123	HA	HB
HN-3D-CD-0173-A	17.3	73	D18	123	HA	HB
HN-3D-CD-0174-A	17.4	73	D18	123	HA	HB
HN-3D-CD-0175-A	17.5	73	D18	123	HA	HB
HN-3D-CD-0176-A	17.6	73	D18	123	HA	HB
HN-3D-CD-0177-A	17.7	73	D18	123	HA	HB
HN-3D-CD-0178-A	17.8	73	D18	123	HA	HB
HN-3D-CD-0179-A	17.9	73	D18	123	HA	HB
HN-3D-CD-0180-A	18	73	D18	123	HA	HB
HN-3D-CD-0181-A	18.1	79	D20	131	HA	HB
HN-3D-CD-0182-A	18.2	79	D20	131	HA	HB
HN-3D-CD-0183-A	18.3	79	D20	131	HA	HB
HN-3D-CD-0184-A	18.4	79	D20	131	HA	HB
HN-3D-CD-0185-A	18.5	79	D20	131	HA	HB
HN-3D-CD-0186-A	18.6	79	D20	131	HA	HB
HN-3D-CD-0187-A	18.7	79	D20	131	HA	HB
HN-3D-CD-0188-A	18.8	79	D20	131	HA	HB
HN-3D-CD-0189-A	18.9	79	D20	131	HA	HB
HN-3D-CD-0190-A	19	79	D20	131	HA	HB
HN-3D-CD-0191-A	19.1	79	D20	131	HA	HB
HN-3D-CD-0192-A	19.2	79	D20	131	HA	HB
HN-3D-CD-0193-A	19.3	79	D20	131	HA	HB
HN-3D-CD-0194-A	19.4	79	D20	131	HA	HB
HN-3D-CD-0195-A	19.5	79	D20	131	HA	HB
HN-3D-CD-0196-A	19.6	79	D20	131	HA	HB
HN-3D-CD-0197-A	19.7	79	D20	131	HA	HB
HN-3D-CD-0198-A	19.8	79	D20	131	HA	HB
HN-3D-CD-0199-A	19.9	79	D20	131	HA	HB
HN-3D-CD-0200-A	20	79	D20	131	HA	HB

HN-5D-TD

5D Carbide drill



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HN-5D-TD-0011-A	1.1	6	D4	50	HA	-
HN-5D-TD-0012-A	1.2	7	D4	50	HA	-
HN-5D-TD-0013-A	1.3	8	D4	50	HA	-
HN-5D-TD-0014-A	1.4	9	D4	50	HA	-
HN-5D-TD-0015-A	1.5	9	D4	50	HA	-
HN-5D-TD-0016-A	1.6	10	D4	50	HA	-
HN-5D-TD-0017-A	1.7	10	D4	50	HA	-
HN-5D-TD-0018-A	1.8	11	D4	50	HA	-
HN-5D-TD-0019-A	1.9	12	D4	50	HA	-
HN-5D-TD-0020-A	2	12	D4	50	HA	-
HN-5D-TD-0021-A	2.1	13	D4	50	HA	-
HN-5D-TD-0022-A	2.2	13	D4	50	HA	-
HN-5D-TD-0023-A	2.3	14	D4	50	HA	-
HN-5D-TD-0024-A	2.4	14	D4	50	HA	-
HN-5D-TD-0025-A	2.5	15	D4	50	HA	-
HN-5D-TD-0026-A	2.6	16	D4	50	HA	-
HN-5D-TD-0027-A	2.7	16	D4	50	HA	-
HN-5D-TD-0028-A	2.8	17	D4	50	HA	-
HN-5D-TD-0029-A	2.9	17	D4	50	HA	-
HN-5D-TD-0030-A	3	28	D4	66	HA	-
HN-5D-TD-0031-A	3.1	28	D4	66	HA	-
HN-5D-TD-0032-A	3.2	28	D4	66	HA	-
HN-5D-TD-0033-A	3.3	28	D4	66	HA	-
HN-5D-TD-0034-A	3.4	28	D4	66	HA	-
HN-5D-TD-0035-A	3.5	28	D4	66	HA	-
HN-5D-TD-0036-A	3.6	28	D4	66	HA	-
HN-5D-TD-0037-A	3.7	28	D4	66	HA	-
HN-5D-TD-0038-A	3.8	36	D4	66	HA	-
HN-5D-TD-0039-A	3.9	36	D4	66	HA	-
HN-5D-TD-0040-A	4	36	D4	66	HA	-
HN-5D-TD-0010-D6-A	1	6	D6	74	HA	HB
HN-5D-TD-0011-D6-A	1.1	6	D6	74	HA	HB
HN-5D-TD-0012-D6-A	1.2	7	D6	74	HA	HB
HN-5D-TD-0013-D6-A	1.3	8	D6	74	HA	HB
HN-5D-TD-0014-D6-A	1.4	9	D6	74	HA	HB
HN-5D-TD-0015-D6-A	1.5	9	D6	74	HA	HB
HN-5D-TD-0016-D6-A	1.6	10	D6	74	HA	HB
HN-5D-TD-0017-D6-A	1.7	10	D6	74	HA	HB
HN-5D-TD-0018-D6-A	1.8	11	D6	74	HA	HB
HN-5D-TD-0019-D6-A	1.9	12	D6	74	HA	HB
HN-5D-TD-0020-D6-A	2	12	D6	74	HA	HB
HN-5D-TD-0021-D6-A	2.1	13	D6	74	HA	HB
HN-5D-TD-0022-D6-A	2.2	13	D6	74	HA	HB
HN-5D-TD-0023-D6-A	2.3	14	D6	74	HA	HB
HN-5D-TD-0024-D6-A	2.4	14	D6	74	HA	HB
HN-5D-TD-0025-D6-A	2.5	15	D6	74	HA	HB
HN-5D-TD-0026-D6-A	2.6	16	D6	74	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0027-D6-A	2.7	16	D6	74	HA	HB
HN-5D-TD-0028-D6-A	2.8	17	D6	74	HA	HB
HN-5D-TD-0029-D6-A	2.9	17	D6	74	HA	HB
HN-5D-TD-0030-D6-A	3	28	D6	74	HA	HB
HN-5D-TD-0031-D6-A	3.1	28	D6	74	HA	HB
HN-5D-TD-0032-D6-A	3.2	28	D6	74	HA	HB
HN-5D-TD-0033-D6-A	3.3	28	D6	74	HA	HB
HN-5D-TD-0034-D6-A	3.4	28	D6	74	HA	HB
HN-5D-TD-0035-D6-A	3.5	28	D6	74	HA	HB
HN-5D-TD-0036-D6-A	3.6	36	D6	74	HA	HB
HN-5D-TD-0037-D6-A	3.7	36	D6	74	HA	HB
HN-5D-TD-0038-D6-A	3.8	36	D6	74	HA	HB
HN-5D-TD-0039-D6-A	3.9	36	D6	74	HA	HB
HN-5D-TD-0040-D6-A	4	36	D6	74	HA	HB
HN-5D-TD-0041-A	4.1	36	D6	74	HA	HB
HN-5D-TD-0042-A	4.2	36	D6	74	HA	HB
HN-5D-TD-0043-A	4.3	36	D6	74	HA	HB
HN-5D-TD-0044-A	4.4	36	D6	74	HA	HB
HN-5D-TD-0045-A	4.5	36	D6	74	HA	HB
HN-5D-TD-0046-A	4.6	36	D6	74	HA	HB
HN-5D-TD-0047-A	4.7	36	D6	74	HA	HB
HN-5D-TD-0048-A	4.8	44	D6	82	HA	HB
HN-5D-TD-0049-A	4.9	44	D6	82	HA	HB
HN-5D-TD-0050-A	5	44	D6	82	HA	HB
HN-5D-TD-0051-A	5.1	44	D6	82	HA	HB
HN-5D-TD-0052-A	5.2	44	D6	82	HA	HB
HN-5D-TD-0053-A	5.3	44	D6	82	HA	HB
HN-5D-TD-0054-A	5.4	44	D6	82	HA	HB
HN-5D-TD-0055-A	5.5	44	D6	82	HA	HB
HN-5D-TD-0056-A	5.6	44	D6	82	HA	HB
HN-5D-TD-0057-A	5.7	44	D6	82	HA	HB
HN-5D-TD-0058-A	5.8	44	D6	82	HA	HB
HN-5D-TD-0059-A	5.9	44	D6	82	HA	HB
HN-5D-TD-0060-A	6	44	D6	82	HA	HB
HN-5D-TD-0061-A	6.1	53	D8	91	HA	HB
HN-5D-TD-0062-A	6.2	53	D8	91	HA	HB
HN-5D-TD-0063-A	6.3	53	D8	91	HA	HB
HN-5D-TD-0064-A	6.4	53	D8	91	HA	HB
HN-5D-TD-0065-A	6.5	53	D8	91	HA	HB
HN-5D-TD-0066-A	6.6	53	D8	91	HA	HB
HN-5D-TD-0067-A	6.7	53	D8	91	HA	HB
HN-5D-TD-0068-A	6.8	53	D8	91	HA	HB
HN-5D-TD-0069-A	6.9	53	D8	91	HA	HB
HN-5D-TD-0070-A	7	53	D8	91	HA	HB
HN-5D-TD-0071-A	7.1	53	D8	91	HA	HB
HN-5D-TD-0072-A	7.2	53	D8	91	HA	HB
HN-5D-TD-0073-A	7.3	53	D8	91	HA	HB
HN-5D-TD-0074-A	7.4	53	D8	91	HA	HB

HN-5D-TD

5D Carbide drill

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0075-A	7.5	53	D8	91	HA	HB
HN-5D-TD-0076-A	7.6	53	D8	91	HA	HB
HN-5D-TD-0077-A	7.7	53	D8	91	HA	HB
HN-5D-TD-0078-A	7.8	53	D8	91	HA	HB
HN-5D-TD-0079-A	7.9	53	D8	91	HA	HB
HN-5D-TD-0080-A	8	53	D8	91	HA	HB
HN-5D-TD-0081-A	8.1	61	D10	103	HA	HB
HN-5D-TD-0082-A	8.2	61	D10	103	HA	HB
HN-5D-TD-0083-A	8.3	61	D10	103	HA	HB
HN-5D-TD-0084-A	8.4	61	D10	103	HA	HB
HN-5D-TD-0085-A	8.5	61	D10	103	HA	HB
HN-5D-TD-0086-A	8.6	61	D10	103	HA	HB
HN-5D-TD-0087-A	8.7	61	D10	103	HA	HB
HN-5D-TD-0088-A	8.8	61	D10	103	HA	HB
HN-5D-TD-0089-A	8.9	61	D10	103	HA	HB
HN-5D-TD-0090-A	9	61	D10	103	HA	HB
HN-5D-TD-0091-A	9.1	61	D10	103	HA	HB
HN-5D-TD-0092-A	9.2	61	D10	103	HA	HB
HN-5D-TD-0093-A	9.3	61	D10	103	HA	HB
HN-5D-TD-0094-A	9.4	61	D10	103	HA	HB
HN-5D-TD-0095-A	9.5	61	D10	103	HA	HB
HN-5D-TD-0096-A	9.6	61	D10	103	HA	HB
HN-5D-TD-0097-A	9.7	61	D10	103	HA	HB
HN-5D-TD-0098-A	9.8	61	D10	103	HA	HB
HN-5D-TD-0099-A	9.9	61	D10	103	HA	HB
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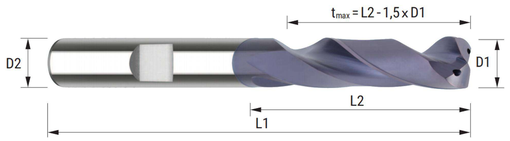
HN-5D-TD-0101-A	10.1	71	D12	118	HA	HB
HN-5D-TD-0102-A	10.2	71	D12	118	HA	HB
HN-5D-TD-0103-A	10.3	71	D12	118	HA	HB
HN-5D-TD-0104-A	10.4	71	D12	118	HA	HB
HN-5D-TD-0105-A	10.5	71	D12	118	HA	HB
HN-5D-TD-0106-A	10.6	71	D12	118	HA	HB
HN-5D-TD-0107-A	10.7	71	D12	118	HA	HB
HN-5D-TD-0108-A	10.8	71	D12	118	HA	HB
HN-5D-TD-0109-A	10.9	71	D12	118	HA	HB
HN-5D-TD-0110-A	11	71	D12	118	HA	HB
HN-5D-TD-0111-A	11.1	71	D12	118	HA	HB
HN-5D-TD-0112-A	11.2	71	D12	118	HA	HB
HN-5D-TD-0113-A	11.3	71	D12	118	HA	HB
HN-5D-TD-0114-A	11.4	71	D12	118	HA	HB
HN-5D-TD-0115-A	11.5	71	D12	118	HA	HB
HN-5D-TD-0116-A	11.6	71	D12	118	HA	HB
HN-5D-TD-0117-A	11.7	71	D12	118	HA	HB
HN-5D-TD-0118-A	11.8	71	D12	118	HA	HB
HN-5D-TD-0119-A	11.9	71	D12	118	HA	HB
HN-5D-TD-0120-A	12	71	D12	118	HA	HB
HN-5D-TD-0121-A	12.1	77	D14	124	HA	HB
HN-5D-TD-0122-A	12.2	77	D14	124	HA	HB
HN-5D-TD-0123-A	12.3	77	D14	124	HA	HB
HN-5D-TD-0124-A	12.4	77	D14	124	HA	HB
HN-5D-TD-0125-A	12.5	77	D14	124	HA	HB
HN-5D-TD-0126-A	12.6	77	D14	124	HA	HB
HN-5D-TD-0127-A	12.7	77	D14	124	HA	HB
HN-5D-TD-0128-A	12.8	77	D14	124	HA	HB
HN-5D-TD-0129-A	12.9	77	D14	124	HA	HB
HN-5D-TD-0130-A	13	77	D14	124	HA	HB
HN-5D-TD-0131-A	13.1	77	D14	124	HA	HB
HN-5D-TD-0132-A	13.2	77	D14	124	HA	HB
HN-5D-TD-0133-A	13.3	77	D14	124	HA	HB
HN-5D-TD-0134-A	13.4	77	D14	124	HA	HB
HN-5D-TD-0135-A	13.5	77	D14	124	HA	HB
HN-5D-TD-0136-A	13.6	77	D14	124	HA	HB
HN-5D-TD-0137-A	13.7	77	D14	124	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-TD-0138-A	13.8	77	D14	124	HA	HB
HN-5D-TD-0139-A	13.9	77	D14	124	HA	HB
HN-5D-TD-0140-A	14	77	D14	124	HA	HB
HN-5D-TD-0141-A	14.1	83	D16	133	HA	HB
HN-5D-TD-0142-A	14.2	83	D16	133	HA	HB
HN-5D-TD-0143-A	14.3	83	D16	133	HA	HB
HN-5D-TD-0144-A	14.4	83	D16	133	HA	HB
HN-5D-TD-0145-A	14.5	83	D16	133	HA	HB
HN-5D-TD-0146-A	14.6	83	D16	133	HA	HB
HN-5D-TD-0147-A	14.7	83	D16	133	HA	HB
HN-5D-TD-0148-A	14.8	83	D16	133	HA	HB
HN-5D-TD-0149-A	14.9	83	D16	133	HA	HB
HN-5D-TD-0150-A	15	83	D16	133	HA	HB
HN-5D-TD-0151-A	15.1	83	D16	133	HA	HB
HN-5D-TD-0152-A	15.2	83	D16	133	HA	HB
HN-5D-TD-0153-A	15.3	83	D16	133	HA	HB
HN-5D-TD-0154-A	15.4	83	D16	133	HA	HB
HN-5D-TD-0155-A	15.5	83	D16	133	HA	HB
HN-5D-TD-0156-A	15.6	83	D16	133	HA	HB
HN-5D-TD-0157-A	15.7	83	D16	133	HA	HB
HN-5D-TD-0158-A	15.8	83	D16	133	HA	HB
HN-5D-TD-0159-A	15.9	83	D16	133	HA	HB
HN-5D-TD-0160-A	16	83	D16	133	HA	HB
HN-5D-TD-0161-A	16.1	93	D18	143	HA	HB
HN-5D-TD-0162-A	16.2	93	D18	143	HA	HB
HN-5D-TD-0163-A	16.3	93	D18	143	HA	HB
HN-5D-TD-0164-A	16.4	93	D18	143	HA	HB
HN-5D-TD-0165-A	16.5	93	D18	143	HA	HB
HN-5D-TD-0166-A	16.6	93	D18	143	HA	HB
HN-5D-TD-0167-A	16.7	93	D18	143	HA	HB
HN-5D-TD-0168-A	16.8	93	D18	143	HA	HB
HN-5D-TD-0169-A	16.9	93	D18	143	HA	HB
HN-5D-TD-0170-A	17	93	D18	143	HA	HB
HN-5D-TD-0171-A	17.1	93	D18	143	HA	HB
HN-5D-TD-0172-A	17.2	93	D18	143	HA	HB
HN-5D-TD-0173-A	17.3	93	D18	143	HA	HB
HN-5D-TD-0174-A	17.4	93	D18	143	HA	HB
HN-5D-TD-0175-A	17.5	93	D18	143	HA	HB
HN-5D-TD-0176-A	17.6	93	D18	143	HA	HB
HN-5D-TD-0177-A	17.7	93	D18	143	HA	HB
HN-5D-TD-0178-A	17.8	93	D18	143	HA	HB
HN-5D-TD-0179-A	17.9	93	D18	143	HA	HB
HN-5D-TD-0180-A	18	93	D18	143	HA	HB
HN-5D-TD-0181-A	18.1	101	D20	153	HA	HB
HN-5D-TD-0182-A	18.2	101	D20	153	HA	HB
HN-5D-TD-0183-A	18.3	101	D20	153	HA	HB
HN-5D-TD-0184-A	18.4	101	D20	153	HA	HB
HN-5D-TD-0185-A	18.5	101	D20	153	HA	HB
HN-5D-TD-0186-A	18.6	101	D20	153	HA	HB
HN-5D-TD-0187-A	18.7	101	D20	153	HA	HB
HN-5D-TD-0188-A	18.8	101	D20	153	HA	HB
HN-5D-TD-0189-A	18.9	101	D20	153	HA	HB
HN-5D-TD-0190-A	19	101	D20	153	HA	HB
HN-5D-TD-0191-A	19.1	101	D20	153	HA	HB
HN-5D-TD-0192-A	19.2	101	D20	153	HA	HB
HN-5D-TD-0193-A	19.3	101	D20	153	HA	HB
HN-5D-TD-0194-A	19.4	101	D20	153	HA	HB
HN-5D-TD-0195-A	19.5	101	D20	153	HA	HB
HN-5D-TD-0196-A	19.6	101	D20	153	HA	HB
HN-5D-TD-0197-A	19.7	101	D20	153	HA	HB
HN-5D-TD-0198-A	19.8	101	D20	153	HA	HB
HN-5D-TD-0199-A	19.9	101	D20	153	HA	HB
HN-5D-TD-0200-A	20	101	D20	153	HA	HB

HN-5D-CD

5D Carbide Drill With Cooling Hole



Order Number	d	l	D	L	HA	HB
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HN-5D-CD-0031-D6-A	3.1	28	D6	74	HA	HB
HN-5D-CD-0032-D6-A	3.2	28	D6	74	HA	HB
HN-5D-CD-0033-D6-A	3.3	28	D6	74	HA	HB
HN-5D-CD-0034-D6-A	3.4	28	D6	74	HA	HB
HN-5D-CD-0035-D6-A	3.5	28	D6	74	HA	HB
HN-5D-CD-0036-D6-A	3.6	28	D6	74	HA	HB
HN-5D-CD-0037-D6-A	3.7	28	D6	74	HA	HB
HN-5D-CD-0038-D6-A	3.8	36	D6	74	HA	HB
HN-5D-CD-0039-D6-A	3.9	36	D6	74	HA	HB
HN-5D-CD-0040-D6-A	4	36	D6	74	HA	HB
HN-5D-CD-0041-A	4.1	36	D6	74	HA	HB
HN-5D-CD-0042-A	4.2	36	D6	74	HA	HB
HN-5D-CD-0043-A	4.3	36	D6	74	HA	HB
HN-5D-CD-0044-A	4.4	36	D6	74	HA	HB
HN-5D-CD-0045-A	4.5	36	D6	74	HA	HB
HN-5D-CD-0046-A	4.6	36	D6	74	HA	HB
HN-5D-CD-0047-A	4.7	36	D6	74	HA	HB
HN-5D-CD-0048-A	4.8	44	D6	82	HA	HB
HN-5D-CD-0049-A	4.9	44	D6	82	HA	HB
HN-5D-CD-0050-A	5	44	D6	82	HA	HB
HN-5D-CD-0051-A	5.1	44	D6	82	HA	HB
HN-5D-CD-0052-A	5.2	44	D6	82	HA	HB
HN-5D-CD-0053-A	5.3	44	D6	82	HA	HB
HN-5D-CD-0054-A	5.4	44	D6	82	HA	HB
HN-5D-CD-0055-A	5.5	44	D6	82	HA	HB
HN-5D-CD-0056-A	5.6	44	D6	82	HA	HB
HN-5D-CD-0057-A	5.7	44	D6	82	HA	HB
HN-5D-CD-0058-A	5.8	44	D6	82	HA	HB
HN-5D-CD-0059-A	5.9	44	D6	82	HA	HB
HN-5D-CD-0060-A	6	44	D6	82	HA	HB
HN-5D-CD-0061-A	6.1	53	D8	91	HA	HB
HN-5D-CD-0062-A	6.2	53	D8	91	HA	HB
HN-5D-CD-0063-A	6.3	53	D8	91	HA	HB
HN-5D-CD-0064-A	6.4	53	D8	91	HA	HB
HN-5D-CD-0065-A	6.5	53	D8	91	HA	HB
HN-5D-CD-0066-A	6.6	53	D8	91	HA	HB
HN-5D-CD-0067-A	6.7	53	D8	91	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0068-A	6.8	53	D8	91	HA	HB
HN-5D-CD-0069-A	6.9	53	D8	91	HA	HB
HN-5D-CD-0070-A	7	53	D8	91	HA	HB
HN-5D-CD-0071-A	7.1	53	D8	91	HA	HB
HN-5D-CD-0072-A	7.2	53	D8	91	HA	HB
HN-5D-CD-0073-A	7.3	53	D8	91	HA	HB
HN-5D-CD-0074-A	7.4	53	D8	91	HA	HB
HN-5D-CD-0075-A	7.5	53	D8	91	HA	HB
HN-5D-CD-0076-A	7.6	53	D8	91	HA	HB
HN-5D-CD-0077-A	7.7	53	D8	91	HA	HB
HN-5D-CD-0078-A	7.8	53	D8	91	HA	HB
HN-5D-CD-0079-A	7.9	53	D8	91	HA	HB
HN-5D-CD-0080-A	8	53	D8	91	HA	HB
HN-5D-CD-0081-A	8.1	61	D10	103	HA	HB
HN-5D-CD-0082-A	8.2	61	D10	103	HA	HB
HN-5D-CD-0083-A	8.3	61	D10	103	HA	HB
HN-5D-CD-0084-A	8.4	61	D10	103	HA	HB
HN-5D-CD-0085-A	8.5	61	D10	103	HA	HB
HN-5D-CD-0086-A	8.6	61	D10	103	HA	HB
HN-5D-CD-0087-A	8.7	61	D10	103	HA	HB
HN-5D-CD-0088-A	8.8	61	D10	103	HA	HB
HN-5D-CD-0089-A	8.9	61	D10	103	HA	HB
HN-5D-CD-0090-A	9	61	D10	103	HA	HB
HN-5D-CD-0091-A	9.1	61	D10	103	HA	HB
HN-5D-CD-0092-A	9.2	61	D10	103	HA	HB
HN-5D-CD-0093-A	9.3	61	D10	103	HA	HB
HN-5D-CD-0094-A	9.4	61	D10	103	HA	HB
HN-5D-CD-0095-A	9.5	61	D10	103	HA	HB
HN-5D-CD-0096-A	9.6	61	D10	103	HA	HB
HN-5D-CD-0097-A	9.7	61	D10	103	HA	HB
HN-5D-CD-0098-A	9.8	61	D10	103	HA	HB
HN-5D-CD-0099-A	9.9	61	D10	103	HA	HB
HN-5D-CD-0100-A	10	61	D10	103	HA	HB
HN-5D-CD-0101-A	10.1	71	D12	118	HA	HB
HN-5D-CD-0102-A	10.2	71	D12	118	HA	HB
HN-5D-CD-0103-A	10.3	71	D12	118	HA	HB
HN-5D-CD-0104-A	10.4	71	D12	118	HA	HB
HN-5D-CD-0105-A	10.5	71	D12	118	HA	HB

HN-5D-CD

5D Carbide Drill With Cooling Hole

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0106-A	10.6	71	D12	118	HA	HB
HN-5D-CD-0107-A	10.7	71	D12	118	HA	HB
HN-5D-CD-0108-A	10.8	71	D12	118	HA	HB
HN-5D-CD-0109-A	10.9	71	D12	118	HA	HB
HN-5D-CD-0110-A	11	71	D12	118	HA	HB
HN-5D-CD-0111-A	11.1	71	D12	118	HA	HB
HN-5D-CD-0112-A	11.2	71	D12	118	HA	HB
HN-5D-CD-0113-A	11.3	71	D12	118	HA	HB
HN-5D-CD-0114-A	11.4	71	D12	118	HA	HB
HN-5D-CD-0115-A	11.5	71	D12	118	HA	HB
HN-5D-CD-0116-A	11.6	71	D12	118	HA	HB
HN-5D-CD-0117-A	11.7	71	D12	118	HA	HB
HN-5D-CD-0118-A	11.8	71	D12	118	HA	HB
HN-5D-CD-0119-A	11.9	71	D12	118	HA	HB
HN-5D-CD-0120-A	12	71	D12	118	HA	HB
HN-5D-CD-0121-A	12.1	77	D14	124	HA	HB
HN-5D-CD-0122-A	12.2	77	D14	124	HA	HB
HN-5D-CD-0123-A	12.3	77	D14	124	HA	HB
HN-5D-CD-0124-A	12.4	77	D14	124	HA	HB
HN-5D-CD-0125-A	12.5	77	D14	124	HA	HB
HN-5D-CD-0126-A	12.6	77	D14	124	HA	HB
HN-5D-CD-0127-A	12.7	77	D14	124	HA	HB
HN-5D-CD-0128-A	12.8	77	D14	124	HA	HB
HN-5D-CD-0129-A	12.9	77	D14	124	HA	HB
HN-5D-CD-0130-A	13	77	D14	124	HA	HB
HN-5D-CD-0131-A	13.1	77	D14	124	HA	HB
HN-5D-CD-0132-A	13.2	77	D14	124	HA	HB
HN-5D-CD-0133-A	13.3	77	D14	124	HA	HB
HN-5D-CD-0134-A	13.4	77	D14	124	HA	HB
HN-5D-CD-0135-A	13.5	77	D14	124	HA	HB
HN-5D-CD-0136-A	13.6	77	D14	124	HA	HB
HN-5D-CD-0137-A	13.7	77	D14	124	HA	HB
HN-5D-CD-0138-A	13.8	77	D14	124	HA	HB
HN-5D-CD-0139-A	13.9	77	D14	124	HA	HB
HN-5D-CD-0140-A	14	77	D14	124	HA	HB
HN-5D-CD-0141-A	14.1	83	D16	133	HA	HB
HN-5D-CD-0142-A	14.2	83	D16	133	HA	HB
HN-5D-CD-0143-A	14.3	83	D16	133	HA	HB
HN-5D-CD-0144-A	14.4	83	D16	133	HA	HB
HN-5D-CD-0145-A	14.5	83	D16	133	HA	HB
HN-5D-CD-0146-A	14.6	83	D16	133	HA	HB
HN-5D-CD-0147-A	14.7	83	D16	133	HA	HB
HN-5D-CD-0148-A	14.8	83	D16	133	HA	HB
HN-5D-CD-0149-A	14.9	83	D16	133	HA	HB
HN-5D-CD-0150-A	15	83	D16	133	HA	HB
HN-5D-CD-0151-A	15.1	83	D16	133	HA	HB
HN-5D-CD-0152-A	15.2	83	D16	133	HA	HB
HN-5D-CD-0153-A	15.3	83	D16	133	HA	HB

Order Number	d	l	D	L	HA	HB
HN-5D-CD-0154-A	15.4	83	D16	133	HA	HB
HN-5D-CD-0155-A	15.5	83	D16	133	HA	HB
HN-5D-CD-0156-A	15.6	83	D16	133	HA	HB
HN-5D-CD-0157-A	15.7	83	D16	133	HA	HB
HN-5D-CD-0158-A	15.8	83	D16	133	HA	HB
HN-5D-CD-0159-A	15.9	83	D16	133	HA	HB
HN-5D-CD-0160-A	16	83	D16	133	HA	HB
HN-5D-CD-0161-A	16.1	93	D18	143	HA	HB
HN-5D-CD-0162-A	16.2	93	D18	143	HA	HB
HN-5D-CD-0163-A	16.3	93	D18	143	HA	HB
HN-5D-CD-0164-A	16.4	93	D18	143	HA	HB
HN-5D-CD-0165-A	16.5	93	D18	143	HA	HB
HN-5D-CD-0166-A	16.6	93	D18	143	HA	HB
HN-5D-CD-0167-A	16.7	93	D18	143	HA	HB
HN-5D-CD-0168-A	16.8	93	D18	143	HA	HB
HN-5D-CD-0169-A	16.9	93	D18	143	HA	HB
HN-5D-CD-0170-A	17	93	D18	143	HA	HB
HN-5D-CD-0171-A	17.1	93	D18	143	HA	HB
HN-5D-CD-0172-A	17.2	93	D18	143	HA	HB
HN-5D-CD-0173-A	17.3	93	D18	143	HA	HB
HN-5D-CD-0174-A	17.4	93	D18	143	HA	HB
HN-5D-CD-0175-A	17.5	93	D18	143	HA	HB
HN-5D-CD-0176-A	17.6	93	D18	143	HA	HB
HN-5D-CD-0177-A	17.7	93	D18	143	HA	HB
HN-5D-CD-0178-A	17.8	93	D18	143	HA	HB
HN-5D-CD-0179-A	17.9	93	D18	143	HA	HB
HN-5D-CD-0180-A	18	93	D18	143	HA	HB
HN-5D-CD-0181-A	18.1	101	D20	153	HA	HB
HN-5D-CD-0182-A	18.2	101	D20	153	HA	HB
HN-5D-CD-0183-A	18.3	101	D20	153	HA	HB
HN-5D-CD-0184-A	18.4	101	D20	153	HA	HB
HN-5D-CD-0185-A	18.5	101	D20	153	HA	HB
HN-5D-CD-0186-A	18.6	101	D20	153	HA	HB
HN-5D-CD-0187-A	18.7	101	D20	153	HA	HB
HN-5D-CD-0188-A	18.8	101	D20	153	HA	HB
HN-5D-CD-0189-A	18.9	101	D20	153	HA	HB
HN-5D-CD-0190-A	19	101	D20	153	HA	HB
HN-5D-CD-0191-A	19.1	101	D20	153	HA	HB
HN-5D-CD-0192-A	19.2	101	D20	153	HA	HB
HN-5D-CD-0193-A	19.3	101	D20	153	HA	HB
HN-5D-CD-0194-A	19.4	101	D20	153	HA	HB
HN-5D-CD-0195-A	19.5	101	D20	153	HA	HB
HN-5D-CD-0196-A	19.6	101	D20	153	HA	HB
HN-5D-CD-0197-A	19.7	101	D20	153	HA	HB
HN-5D-CD-0198-A	19.8	101	D20	153	HA	HB
HN-5D-CD-0199-A	19.9	101	D20	153	HA	HB
HN-5D-CD-0200-A	20	101	D20	153	HA	HB

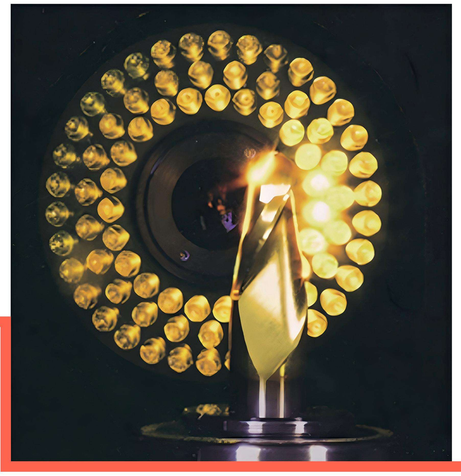
OUR EQUIPMENT

makinoseiki

High precision grinding equipment

WALTER

ZOLLER



High precision testing equipment

Processing parameters

3D/5D Standard Twist Drill(External cooling)

Work Material	mild steel HB≤180		Carbon Steel Alloy Steel ~30HRC		Pre-Hardnened Steel ~40HRC		Stainless Steel		Cast Iron		Ductile iron		High-temperature Alloys	
Cutting Speed	60~120m/min		60~120m/min		40~70m/min		25~40m/min		60~120m/min		50~100m/min		15~25m/min	
D (mm)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)
3	9500	0.09~ 0.12	9500	0.09~ 0.12	6300	0.09~ 0.12	3700	0.03~ 0.07	9500	0.09~ 0.12	7400	0.09~ 0.12	2100	0.03~ 0.06
4	7000	0.10~ 0.15	7000	0.10~ 0.15	4700	0.10~ 0.15	2700	0.04~ 0.08	7000	0.10~ 0.15	5600	0.10~ 0.15	1600	0.04~ 0.07
5	5700	0.12~ 0.18	5700	0.12~ 0.18	3800	0.12~ 0.18	2200	0.05~ 0.10	5700	0.12~ 0.18	4500	0.12~ 0.18	1250	0.05~ 0.09
6	4700	0.14~ 0.20	4700	0.14~ 0.20	3100	0.14~ 0.20	1850	0.06~ 0.12	4700	0.14~ 0.20	3700	0.14~ 0.20	1050	0.06~ 0.11
8	3600	0.16~ 0.24	3600	0.16~ 0.24	2400	0.16~ 0.24	1400	0.08~ 0.16	3600	0.16~ 0.24	2800	0.16~ 0.24	800	0.08~ 0.14
10	2800	0.18~ 0.27	2800	0.18~ 0.27	1900	0.18~ 0.27	1100	0.10~ 0.18	2800	0.18~ 0.27	2200	0.18~ 0.27	600	0.10~ 0.16
12	2400	0.20~ 0.30	2400	0.20~ 0.30	1600	0.20~ 0.30	930	0.12~ 0.20	2400	0.20~ 0.30	1900	0.20~ 0.30	500	0.12~ 0.18
14	2100	0.22~ 0.35	2100	0.22~ 0.35	1400	0.22~ 0.35	800	0.13~ 0.22	2100	0.22~ 0.35	1600	0.22~ 0.35	450	0.13~ 0.20
16	1800	0.25~ 0.36	1800	0.25~ 0.36	1200	0.25~ 0.36	700	0.14~ 0.25	1800	0.25~ 0.36	1400	0.25~ 0.36	400	0.14~ 0.23

3D/5D Standard Twist Drill(Internal cooling)

Work Material	mild steel HB≤180		Carbon Steel Alloy Steel ~30HRC		Pre-Hardnened Steel ~40HRC		Stainless Steel		Cast Iron		Ductile iron		High-temperature Alloys	
Cutting Speed	80~150m/min		80~150m/min		50~80m/min		50~80m/min		80~150m/min		60~120m/min		15~25m/min	
D (mm)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)	Speed (min²)	Feed (mm/r)
3	12700	0.09~ 0.12	12700	0.09~ 0.12	7400	0.09~ 0.12	6300	0.03~ 0.07	12700	0.09~ 0.12	9500	0.09~ 0.12	2100	0.03~ 0.06
4	9600	0.10~ 0.15	9600	0.10~ 0.15	5600	0.10~ 0.15	4700	0.04~ 0.08	9600	0.10~ 0.15	7000	0.10~ 0.15	1600	0.04~ 0.07
5	7600	0.12~ 0.18	7600	0.12~ 0.18	4500	0.12~ 0.18	3800	0.05~ 0.10	7600	0.12~ 0.18	5700	0.12~ 0.18	1250	0.05~ 0.09
6	6400	0.14~ 0.20	6400	0.14~ 0.20	3700	0.14~ 0.20	3200	0.06~ 0.12	6400	0.14~ 0.20	4700	0.14~ 0.20	1050	0.06~ 0.11
8	4800	0.16~ 0.24	4800	0.16~ 0.24	2800	0.16~ 0.24	2400	0.08~ 0.16	4800	0.16~ 0.24	3600	0.16~ 0.24	800	0.08~ 0.14
10	3800	0.18~ 0.27	3800	0.18~ 0.27	2200	0.18~ 0.27	1900	0.10~ 0.18	3800	0.18~ 0.27	2800	0.18~ 0.27	600	0.10~ 0.16
12	3200	0.20~ 0.30	3200	0.20~ 0.30	1900	0.20~ 0.30	1600	0.12~ 0.20	3200	0.20~ 0.30	2400	0.20~ 0.30	500	0.12~ 0.18
14	2700	0.22~ 0.35	2700	0.22~ 0.35	1600	0.22~ 0.35	1350	0.13~ 0.22	2700	0.22~ 0.35	2100	0.22~ 0.35	450	0.13~ 0.20
16	2400	0.25~ 0.36	2400	0.25~ 0.36	1400	0.25~ 0.36	1200	0.14~ 0.25	2400	0.25~ 0.36	1800	0.25~ 0.36	400	0.14~ 0.23