

CARBIDE DRILLS



Carbide Drills

When productivity matters

- 3xd₁ to 8xd₁ hole depths
- With & without internal coolant
- Ultra fine grain type carbide
- Technically advanced multi-layer coatings

new generation coatings...

a quantum leap in tool wear resistance

AICrN

Aluminium Chromium Nitride

The new magic tool coating formula is Aluminum Chromium Nitride (AlCrN). Coatings of this new G6 generation developed, markedly expand the performance envelope versus conventional titanium based coatings (such as TiAlN, AlTiN or TiCN).

Unique coating properties

The AlCrN coating exhibits until now, an unmatched degree of oxidation resistance and hot hardness. These properties have triggered a quantum leap in tool wear resistance.

The bottom line: greater productivity!

Tools coated with AlCrN let you choose noticeably higher cutting speeds and allow you to more effectively exploit the potential of modern machine tools. You can produce more parts per time / unit to decisively boost the productivity of your manufacturing resources and hone your competitive edge.

Extraordinary performance gains have been demonstrated in dry and wet machining processes involving:

- Unalloyed steels
- High strength steels
- High hardness steels (up to 54 HRC)

Superior performance for the entire life of the tool AlCrN is suitable for recoating tools with no tradeoff in performance.

Coating properties:

- Very high abrasion resistance
- High and constant temperature resistance
- Unrivalled oxidation resistance
- Titanium free coating



www.suttontools.com.au/Coatings

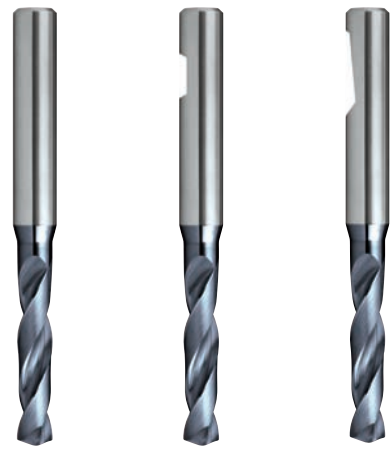
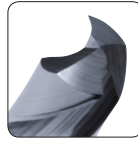
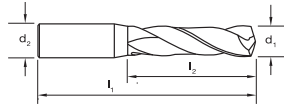
	Drill Carbide, 3xD			Drill Carbide, 3xD, IK			Drill Carbide, 3xD, IK			Drill Carbide, 5xD			Drill Carbide, 5xD, IK			Drill Carbide, 8xD, IK		
Page	32	32	32	35	35	35	38	38	38	41	41	41	44	44	44			
Catalogue Code	D323	D324	D325	D329	D330	D331	D326	D327	D328	D332	D333	D334	D335	D336	D337			
Material	VHM			VHM			VHM			VHM			VHM					
Surface Finish	AlCrN			AlCrN			AlCrN			AlCrN			AlCrN					
Colour Ring & Application	Up to 1400N/mm ²			Up to 1400N/mm ²			Up to 1400N/mm ²			Up to 1400N/mm ²			Up to 1400N/mm ²					
Standard	DIN 6537			DIN 6537			DIN 6537			DIN 6537			DIN 6537					
Depth of Cut	3 x D						5 x D						8 x D					
Shank Form	HA	HB	HE	HA	HB	HE	HA	HB	HE	HA	HB	HE	HA	HB	HE			

Material	HB	N/mm ²	% Elong.	HA	HB	HE	HA	HB	HE	HA	HB	HE	HA	HB	HE
1.0 Steels															
1.1 Mild steels, magnetic soft steel	<200	>200 <400	10	●		●		●		●		●		●	
1.2 Free cutting, structural, unalloyed	<200	>350 <700	30	●		●		●		●		●		●	
1.3 Plain carbon, low allowed	<300	>350 <850	20	●		●		●		●		●		●	
1.4 Alloy steels harden. / tempered	<250	>500 <850	30	●		●		●		●		●		●	
1.5 Alloy steels harden. / tempered	<350	>850 <1200	30	●		●		●		●		●		●	
1.6 Hardened, heat treated, high tensile alloy	<420	>1500	12	●		●		●		●		●		●	
1.7 Hardened Steel 45-50 Rc	<550		<12	○		○		○		○		○		○	
1.8 Hardened Steel 50-62 Rc	<700		<12	○		○		○		○		○		○	
2.0 Stainless Steels															
2.1 Free machining	<250	<850	25	○		●		○		●		●		●	
2.2 Austenitic	<250	<850	20	○		●		○		●		●		●	
2.3 Ferritic + martensitic	<250	<850	20			●				●				○	
3.0 Cast Irons															
3.1 Lamellar graphite (Grey soft)	<150	<500	10	●		●		●		●		●		●	
3.2 Lamellar graphite (Grey hard)	<300	<1000	10	●		●		●		●		●		●	
3.3 Nodular (spheroidal) graphite & malleable	<200	<700	10	●		●		●		●		●		●	
4.0 Titaniums															
4.1 Pure Titanium	<250	<850	20	○		○				○				○	
4.2 Titanium alloys	>250	>850	20	○		○				○				○	
5.0 Nickels															
5.1 Nickel alloys	<250	<850	25	○		○				○				○	
5.2 Nickel alloys	>250	>850	25	○		○				○				○	
6.0 Coppers															
6.1 Pure Copper (electrolytic Cu)	<120	<400	12	○		○				○				○	
6.2 Short chip Brass, Phosphor Bronze, gun metal	<200	<700	12	○		○				○				○	
6.3 Long chip Brass, Bronze	<200	<700	12	○		○				○				○	
7.0 Aluminiums															
7.1 Aluminium unalloyed	<100	<350	15	○		○				○				○	
7.2 Magnesium unalloyed	<150	<350	15	○		○				○				○	
7.3 Al Alloyed Si < 1.5 %	<120	<500	15	○		○				○				○	
7.4 Al Alloyed 1.5 % < Si < 10%	<120	<400	10	○		○				○				○	
7.5 Al Alloyed > 10% Si	-	<400	N	○		○				○				○	
7.6 Magnesium alloys	-	<400	N	○		○				○				○	
8.0 Plastics															
8.1 Plastics, Thermoplastics, Polyethylene	<340	<50	N	○		○				○				○	

Drills Carbide, 3xD



- Suitable for materials up to 1400N/mm²
- Strong core
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



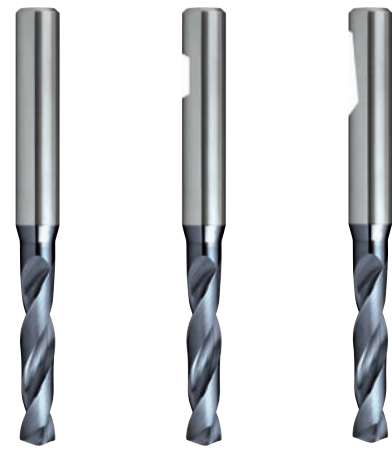
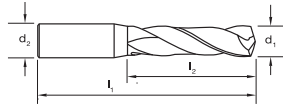
Catalogue Code				D323	D324	D325
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
3.0	62	20	6	D323 0300	D324 0300	D325 0300
3.1	62	20	6	D323 0310	D324 0310	D325 0310
3.18 1/8	62	20	6	D323 0318	•	•
3.2	62	20	6	D323 0320	D324 0320	D325 0320
3.3	62	20	6	D323 0330	D324 0330	D325 0330
3.4	62	20	6	D323 0340	D324 0340	D325 0340
3.5	62	20	6	D323 0350	D324 0350	D325 0350
3.57 9/64	62	20	6	D323 0357	•	•
3.6	62	20	6	D323 0360	D324 0360	D325 0360
3.7	62	20	6	D323 0370	D324 0370	D325 0370
3.8	66	24	6	D323 0380	D324 0380	D325 0380
3.9	66	24	6	D323 0390	D324 0390	D325 0390
3.97 5/32	66	24	6	D323 0397	•	•
4.0	66	24	6	D323 0400	D324 0400	D325 0400
4.1	66	24	6	D323 0410	D324 0410	D325 0410
4.2	66	24	6	D323 0420	D324 0420	D325 0420
4.3	66	24	6	D323 0430	D324 0430	D325 0430
4.37 11/64	66	24	6	D323 0437	•	•
4.4	66	24	6	D323 0440	D324 0440	D325 0440
4.5	66	24	6	D323 0450	D324 0450	D325 0450
4.6	66	24	6	D323 0460	D324 0460	D325 0460
4.7	66	24	6	D323 0470	D324 0470	D325 0470
4.76 3/16	66	24	6	D323 0476	•	•
4.8	66	28	6	D323 0480	D324 0480	D325 0480
4.9	66	28	6	D323 0490	D324 0490	D325 0490
5.0	66	28	6	D323 0500	D324 0500	D325 0500
5.1	66	28	6	D323 0510	D324 0510	D325 0510
5.16 13/64	66	28	6	D323 0516	•	•
5.2	66	28	6	D323 0520	D324 0520	D325 0520
5.3	66	28	6	D323 0530	D324 0530	D325 0530
5.4	66	28	6	D323 0540	D324 0540	D325 0540
5.5	66	28	6	D323 0550	D324 0550	D325 0550
5.56 7/32	66	28	6	D323 0556	•	•
5.6	66	28	6	D323 0560	D324 0560	D325 0560
5.7	66	28	6	D323 0570	D324 0570	D325 0570
5.8	66	28	6	D323 0580	D324 0580	D325 0580
5.9	66	28	6	D323 0590	D324 0590	D325 0590
5.95 15/64	66	28	6	D323 0595	•	•
6.0	66	28	6	D323 0600	D324 0600	D325 0600
6.1	79	34	8	D323 0610	D324 0610	D325 0610
6.2	79	34	8	D323 0620	D324 0620	D325 0620
6.3	79	34	8	D323 0630	D324 0630	D325 0630
6.35 1/4	79	34	8	D323 0635	•	•
6.4	79	34	8	D323 0640	D324 0640	D325 0640
6.5	79	34	8	D323 0650	D324 0650	D325 0650
6.6	79	34	8	D323 0660	D324 0660	D325 0660
6.7	79	34	8	D323 0670	D324 0670	D325 0670
6.76 17/64	79	34	8	D323 0676	•	•

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 3xD



- Suitable for materials up to 1400N/mm²
- Strong core
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



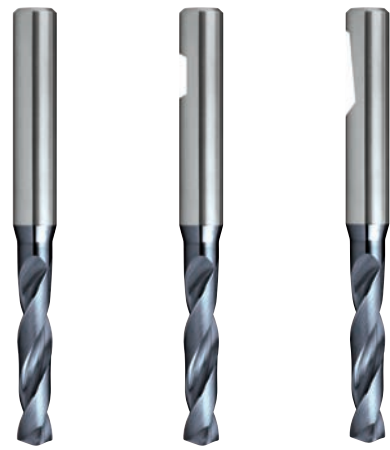
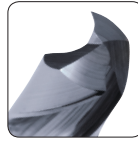
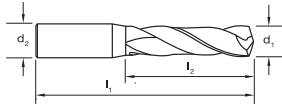
Catalogue Code				D323	D324	D325
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
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6.9	79	34	8	D323 0690	D324 0690	D325 0690
7.0	79	34	8	D323 0700	D324 0700	D325 0700
7.1	79	41	8	D323 0710	D324 0710	D325 0710
7.14	9/32	79	41	D323 0714	•	•
7.2	79	41	8	D323 0720	D324 0720	D325 0720
7.3	79	41	8	D323 0730	D324 0730	D325 0730
7.4	79	41	8	D323 0740	D324 0740	D325 0740
7.5	79	41	8	D323 0750	D324 0750	D325 0750
7.54	19/64	79	41	D323 0754	•	•
7.6	79	41	8	D323 0760	D324 0760	D325 0760
7.7	79	41	8	D323 0770	D324 0770	D325 0770
7.8	79	41	8	D323 0780	D324 0780	D325 0780
7.9	79	41	8	D323 0790	D324 0790	D325 0790
7.94	5/16	79	41	D323 0794	•	•
8.0	79	41	8	D323 0800	D324 0800	D325 0800
8.1	89	47	10	D323 0810	D324 0810	D325 0810
8.2	89	47	10	D323 0820	D324 0820	D325 0820
8.3	89	47	10	D323 0830	D324 0830	D325 0830
8.33	21/64	89	47	D323 0833	•	•
8.4	89	47	10	D323 0840	D324 0840	D325 0840
8.5	89	47	10	D323 0850	D324 0850	D325 0850
8.6	89	47	10	D323 0860	D324 0860	D325 0860
8.7	89	47	10	D323 0870	D324 0870	D325 0870
8.73	11/32	89	47	D323 0873	•	•
8.8	89	47	10	D323 0880	D324 0880	D325 0880
8.9	89	47	10	D323 0890	D324 0890	D325 0890
9.0	89	47	10	D323 0900	D324 0900	D325 0900
9.1	89	47	10	D323 0910	D324 0910	D325 0910
9.13	23/64	89	47	D323 0913	•	•
9.2	89	47	10	D323 0920	D324 0920	D325 0920
9.3	89	47	10	D323 0930	D324 0930	D325 0930
9.4	89	47	10	D323 0940	D324 0940	D325 0940
9.5	89	47	10	D323 0950	D324 0950	D325 0950
9.53	3/8	89	47	D323 0953	•	•
9.6	89	47	10	D323 0960	D324 0960	D325 0960
9.7	89	47	10	D323 0970	D324 0970	D325 0970
9.8	89	47	10	D323 0980	D324 0980	D325 0980
9.9	89	47	10	D323 0990	D324 0990	D325 0990
9.92	25/64	89	47	D323 0992	•	•
10.0	89	47	10	D323 1000	D324 1000	D325 1000
10.1	102	55	12	D323 1010	D324 1010	D325 1010
10.2	102	55	12	D323 1020	D324 1020	D325 1020
10.3	102	55	12	D323 1030	D324 1030	D325 1030
10.32	13/32	102	55	D323 1032	•	•
10.4	102	55	12	D323 1040	D324 1040	D325 1040
10.5	102	55	12	D323 1050	D324 1050	D325 1050
10.6	102	55	12	D323 1060	D324 1060	D325 1060

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NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 3xD



- Suitable for materials up to 1400N/mm²
- Strong core
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



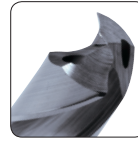
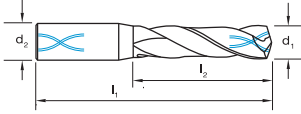
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Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
10.7	102	55	12	D323 1070	D324 1070	D325 1070
10.8	102	55	12	D323 1080	D324 1080	D325 1080
10.9	102	55	12	D323 1090	D324 1090	D325 1090
11.0	102	55	12	D323 1100	D324 1100	D325 1100
11.1	102	55	12	D323 1110	D324 1110	D325 1110
11.11	7/16	102	55	D323 1111	•	•
11.2	102	55	12	D323 1120	D324 1120	D325 1120
11.3	102	55	12	D323 1130	D324 1130	D325 1130
11.4	102	55	12	D323 1140	D324 1140	D325 1140
11.5	102	55	12	D323 1150	D324 1150	D325 1150
11.6	102	55	12	D323 1160	D324 1160	D325 1160
11.7	102	55	12	D323 1170	D324 1170	D325 1170
11.8	102	55	12	D323 1180	D324 1180	D325 1180
11.9	102	55	12	D323 1190	D324 1190	D325 1190
11.91	15/32	102	55	D323 1191	•	•
12.0	102	55	12	D323 1200	D324 1200	D325 1200
12.5	107	60	14	D323 1250	D324 1250	D325 1250
12.69	1/2	107	60	D323 1269	•	•
12.8	107	60	14	D323 1280	D324 1280	D325 1280
13.0	107	60	14	D323 1300	D324 1300	D325 1300
13.49	17/32	107	60	D323 1349	•	•
13.5	107	60	14	D323 1350	D324 1350	D325 1350
13.8	107	60	14	•	•	•
14.0	107	60	14	D323 1400	D324 1400	D325 1400
14.29	9/16	107	60	D323 1429	•	•
14.5	107	65	16	D323 1450	D324 1450	D325 1450
14.8	115	65	16	D323 1480	D324 1480	D325 1480
15.0	115	65	16	D323 1500	D324 1500	D325 1500
15.5	115	65	16	D323 1550	D324 1550	D325 1550
15.8	115	65	16	D323 1580	D324 1580	D325 1580
15.88	5/8	115	65	D323 1588	•	•
16.0	115	65	16	D323 1600	D324 1600	D325 1600
16.5	123	73	18	D323 1650	D324 1650	D325 1650
16.8	123	73	18	D323 1680	D324 1680	D325 1680
17.0	123	73	18	D323 1700	D324 1700	D325 1700
17.46	11/16	123	73	D323 1746	•	•
17.5	123	73	18	D323 1750	D324 1750	D325 1750
17.8	123	73	18	D323 1780	D324 1780	D325 1780
18.0	123	73	18	D323 1800	D324 1800	D325 1800
18.5	131	79	20	D323 1850	D324 1850	D325 1850
19.0	131	79	20	D323 1900	D324 1900	D325 1900
19.05	3/4	131	79	D323 1905	•	•
19.5	131	79	20	D323 1950	D324 1950	D325 1950
19.8	131	79	20	•	•	•
20.0	131	79	20	D323 2000	D324 2000	D325 2000

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Drills Carbide, 3xD, IK



- Suitable for materials up to 1400N/mm²
- Strong core with internal coolant supply
- Micro geometry & surface conditioning for optimal chip control
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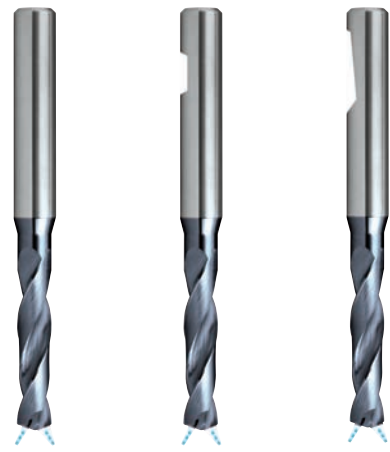
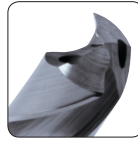
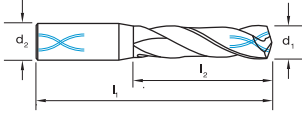
Catalogue Code				D329	D330	D331
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
3.0	62	20	6	D329 0300	D330 0300	D331 0300
3.1	62	20	6	D329 0310	D330 0310	D331 0310
3.18 1/8	62	20	6	D329 0318	•	•
3.2	62	20	6	D329 0320	D330 0320	D331 0320
3.3	62	20	6	D329 0330	D330 0330	D331 0330
3.4	62	20	6	D329 0340	D330 0340	D331 0340
3.5	62	20	6	D329 0350	D330 0350	D331 0350
3.57 9/64	62	20	6	D329 0357	•	•
3.6	62	20	6	D329 0360	D330 0360	D331 0360
3.7	62	20	6	D329 0370	D330 0370	D331 0370
3.8	66	24	6	D329 0380	D330 0380	D331 0380
3.9	66	24	6	D329 0390	D330 0390	D331 0390
3.97 5.32	66	24	6	D329 0397	•	•
4.0	66	24	6	D329 0400	D330 0400	D331 0400
4.1	66	24	6	D329 0410	D330 0410	D331 0410
4.2	66	24	6	D329 0420	D330 0420	D331 0420
4.3	66	24	6	D329 0430	D330 0430	D331 0430
4.37 11/64	66	24	6	D329 0437	•	•
4.4	66	24	6	D329 0440	D330 0440	D331 0440
4.5	66	24	6	D329 0450	D330 0450	D331 0450
4.6	66	24	6	D329 0460	D330 0460	D331 0460
4.7	66	24	6	D329 0470	D330 0470	D331 0470
4.76 3/16	66	24	6	D329 0476	•	•
4.8	66	28	6	D329 0480	D330 0480	D331 0480
4.9	66	28	6	D329 0490	D330 0490	D331 0490
5.0	66	28	6	D329 0500	D330 0500	D331 0500
5.1	66	28	6	D329 0510	D330 0510	D331 0510
5.16 13/64	66	28	6	D329 0516	•	•
5.2	66	28	6	D329 0520	D330 0520	D331 0520
5.3	66	28	6	D329 0530	D330 0530	D331 0530
5.4	66	28	6	D329 0540	D330 0540	D331 0540
5.5	66	28	6	D329 0550	D330 0550	D331 0550
5.56 7/32	66	28	6	D329 0556	•	•
5.6	66	28	6	D329 0560	D330 0560	D331 0560
5.7	66	28	6	D329 0570	D330 0570	D331 0570
5.8	66	28	6	D329 0580	D330 0580	D331 0580
5.9	66	28	6	D329 0590	D330 0590	D331 0590
5.95 15/64	66	28	6	D329 0595	•	•
6.0	66	28	6	D329 0600	D330 0600	D331 0600
6.1	79	34	8	D329 0610	D330 0610	D331 0610
6.2	79	34	8	D329 0620	D330 0620	D331 0620
6.3	79	34	8	D329 0630	D330 0630	D331 0630
6.35 1/4	79	34	8	D329 0635	•	•
6.4	79	34	8	D329 0640	D330 0640	D331 0640
6.5	79	34	8	D329 0650	D330 0650	D331 0650
6.6	79	34	8	D329 0660	D330 0660	D331 0660
6.7	79	34	8	D329 0670	D330 0670	D331 0670
6.76 17/64	79	34	8	D329 0676	•	•

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 3xD, IK



- Suitable for materials up to 1400N/mm²
- Strong core with internal coolant supply
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



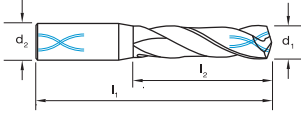
Catalogue Code				D329	D330	D331
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
6.8	79	34	8	D329 0680	D330 0680	D331 0680
6.9	79	34	8	D329 0690	D330 0690	D331 0690
7.0	79	34	8	D329 0700	D330 0700	D331 0700
7.1	79	41	8	D329 0710	D330 0710	D331 0710
7.14	9/32	79	41	D329 0714	•	•
7.2	79	41	8	D329 0720	D330 0720	D331 0720
7.3	79	41	8	D329 0730	D330 0730	D331 0730
7.4	79	41	8	D329 0740	D330 0740	D331 0740
7.5	79	41	8	D329 0750	D330 0750	D331 0750
7.54	19/64	79	41	D329 0754	•	•
7.6	79	41	8	D329 0760	D330 0760	D331 0760
7.7	79	41	8	D329 0770	D330 0770	D331 0770
7.8	79	41	8	D329 0780	D330 0780	D331 0780
7.9	79	41	8	D329 0790	D330 0790	D331 0790
7.94	5/16	79	41	D329 0794	•	•
8.0	79	41	8	D329 0800	D330 0800	D331 0800
8.1	89	47	10	D329 0810	D330 0810	D331 0810
8.2	89	47	10	D329 0820	D330 0820	D331 0820
8.3	89	47	10	D329 0830	D330 0830	D331 0830
8.33	21/64	89	47	D329 0833	•	•
8.4	89	47	10	D329 0840	D330 0840	D331 0840
8.5	89	47	10	D329 0850	D330 0850	D331 0850
8.6	89	47	10	D329 0860	D330 0860	D331 0860
8.7	89	47	10	D329 0870	D330 0870	D331 0870
8.73	11/32	89	47	D329 0873	•	•
8.8	89	47	10	D329 0880	D330 0880	D331 0880
8.9	89	47	10	D329 0890	D330 0890	D331 0890
9.0	89	47	10	D329 0900	D330 0900	D331 0900
9.1	89	47	10	D329 0910	D330 0910	D331 0910
9.13	23/64	89	47	D329 0913	•	•
9.2	89	47	10	D329 0920	D330 0920	D331 0920
9.3	89	47	10	D329 0930	D330 0930	D331 0930
9.4	89	47	10	D329 0940	D330 0940	D331 0940
9.5	89	47	10	D329 0950	D330 0950	D331 0950
9.53	3/8	89	47	D329 0953	•	•
9.6	89	47	10	D329 0960	D330 0960	D331 0960
9.7	89	47	10	D329 0970	D330 0970	D331 0970
9.8	89	47	10	D329 0980	D330 0980	D331 0980
9.9	89	47	10	D329 0990	D330 0990	D331 0990
9.92	25/64	89	47	D329 0992	•	•
10.0	89	47	10	D329 1000	D330 1000	D331 1000
10.1	102	55	12	D329 1010	D330 1010	D331 1010
10.2	102	55	12	D329 1020	D330 1020	D331 1020
10.3	102	55	12	D329 1030	D330 1030	D331 1030
10.32	13.32	102	55	D329 1032	•	•
10.4	102	55	12	D329 1040	D330 1040	D331 1040
10.5	102	55	12	D329 1050	D330 1050	D331 1050
10.6	102	55	12	D329 1060	D330 1060	D331 1060

* Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 3xD, IK



- Suitable for materials up to 1400N/mm²
- Strong core with internal coolant supply
- Micro geometry & surface conditioning for optimal chip control
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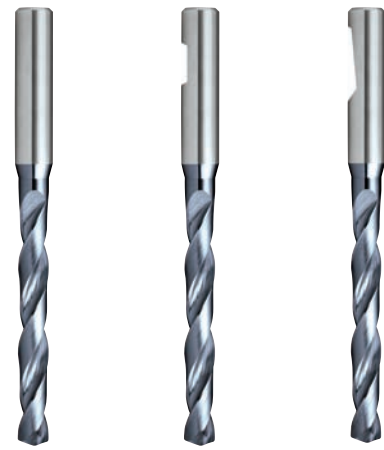
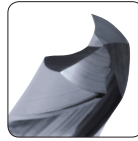
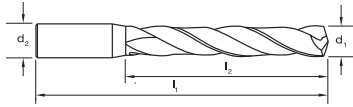
Catalogue Code				D329	D330	D331
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
10.7	102	55	12	D329 1070	D330 1070	D331 1070
10.8	102	55	12	D329 1080	D330 1080	D331 1080
10.9	102	55	12	D329 1090	D330 1090	D331 1090
11.0	102	55	12	D329 1100	D330 1100	D331 1100
11.1	102	55	12	D329 1110	D330 1110	D331 1110
11.11	7/16	102	55	D329 1111	•	•
11.2	102	55	12	D329 1120	D330 1120	D331 1120
11.3	102	55	12	D329 1130	D330 1130	D331 1130
11.4	102	55	12	D329 1140	D330 1140	D331 1140
11.5	102	55	12	D329 1150	D330 1150	D331 1150
11.6	102	55	12	D329 1160	D330 1160	D331 1160
11.7	102	55	12	D329 1170	D330 1170	D331 1170
11.8	102	55	12	D329 1180	D330 1180	D331 1180
11.9	102	55	12	D329 1190	D330 1190	D331 1190
11.91	15/32	102	55	D329 1191	•	•
12.0	102	55	12	D329 1200	D330 1200	D331 1200
12.5	107	60	14	D329 1250	D330 1250	D331 1250
12.69	1/2	107	60	D3291269	•	•
12.8	107	60	14	D329 1280	D330 1280	D331 1280
13.0	107	60	14	D329 1300	D330 1300	D331 1300
13.49	17/32	107	60	D3291349	•	•
13.5	107	60	14	D329 1350	D330 1350	D331 1350
13.8	107	60	14	•	•	•
14.0	107	60	14	D329 1400	D330 1400	D331 1400
14.29	9/16	107	60	D329 1429	•	•
14.5	107	65	16	D329 1450	D330 1450	D331 1450
14.8	115	65	16	•	•	•
15.0	115	65	16	D329 1500	D330 1500	D331 1500
15.5	115	65	16	D329 1550	D330 1550	D331 1550
15.8	115	65	16	•	•	•
15.88	5/8	115	65	D329 1588	•	•
16.0	115	65	16	D329 1600	D330 1600	D331 1600
16.5	123	73	18	D329 1650	D330 1650	D331 1650
16.8	123	73	18	•	•	•
17.0	123	73	18	D329 1700	D330 1700	D331 1700
17.46	11/16	123	73	D329 1746	•	•
17.5	123	73	18	D329 1750	D330 1750	D331 1750
17.8	123	73	18	•	•	•
18.0	123	73	18	D329 1800	D330 1800	D331 1800
18.5	131	79	20	D329 1850	D330 1850	D331 1850
19.0	131	79	20	D329 1900	D330 1900	D331 1900
19.05	3/4	131	79	D3291905	•	•
19.5	131	79	20	D329 1950	D330 1950	D331 1950
19.8	131	79	20	•	•	•
20.0	131	79	20	D329 2000	D330 2000	D331 2000

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 5xD



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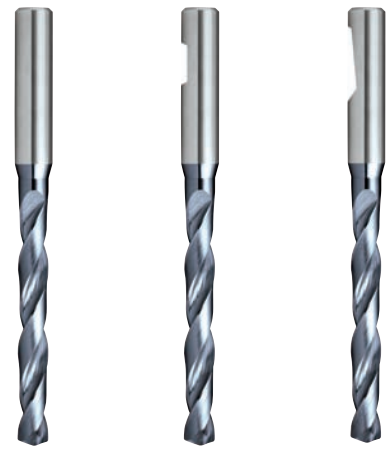
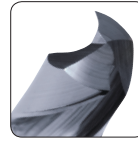
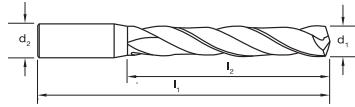
Catalogue Code				D326	D327	D328
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
3.0	66	28	6	D326 0300	D327 0300	D328 0300
3.1	66	28	6	D326 0310	D327 0310	D328 0310
3.18 1/8	66	28	6	D326 0318	•	•
3.2	66	28	6	D326 0320	D327 0320	D328 0320
3.3	66	28	6	D326 0330	D327 0330	D328 0330
3.4	66	28	6	D326 0340	D327 0340	D328 0340
3.5	66	28	6	D326 0350	D327 0350	D328 0350
3.57 9/64	66	28	6	D326 0357	•	•
3.6	66	28	6	D326 0360	D327 0360	D328 0360
3.7	66	28	6	D326 0370	D327 0370	D328 0370
3.8	74	36	6	D326 0380	D327 0380	D328 0380
3.9	74	36	6	D326 0390	D327 0390	D328 0390
3.97 5/32	74	36	6	D326 0397	•	•
4.0	74	36	6	D326 0400	D327 0400	D328 0400
4.1	74	36	6	D326 0410	D327 0410	D328 0410
4.2	74	36	6	D326 0420	D327 0420	D328 0420
4.3	74	36	6	D326 0430	D327 0430	D328 0430
4.37 11/64	74	36	6	D326 0437	•	•
4.4	74	36	6	D326 0440	D327 0440	D328 0440
4.5	74	36	6	D326 0450	D327 0450	D328 0450
4.6	74	36	6	D326 0460	D327 0460	D328 0460
4.7	74	36	6	D326 0470	D327 0470	D328 0470
4.76 3/16	74	36	6	D326 0476	•	•
4.8	82	44	6	D326 0480	D327 0480	D328 0480
4.9	82	44	6	D326 0490	D327 0490	D328 0490
5.0	82	44	6	D326 0500	D327 0500	D328 0500
5.1	82	44	6	D326 0510	D327 0510	D328 0510
5.16 13/64	82	44	6	D326 0516	•	•
5.2	82	44	6	D326 0520	D327 0520	D328 0520
5.3	82	44	6	D326 0530	D327 0530	D328 0530
5.4	82	44	6	D326 0540	D327 0540	D328 0540
5.5	82	44	6	D326 0550	D327 0550	D328 0550
5.56 7/32	82	44	6	D326 0556	•	•
5.6	82	44	6	D326 0560	D327 0560	D328 0560
5.7	82	44	6	D326 0570	D327 0570	D328 0570
5.8	82	44	6	D326 0580	D327 0580	D328 0580
5.9	82	44	6	D326 0590	D327 0590	D328 0590
5.95 15/64	82	44	6	D326 0595	•	•
6.0	82	44	6	D326 0600	D327 0600	D328 0600
6.1	91	53	8	D326 0610	D327 0610	D328 0610
6.2	91	53	8	D326 0620	D327 0620	D328 0620
6.3	91	53	8	D326 0630	D327 0630	D328 0630
6.35 1/4	91	53	8	D326 0635	•	•
6.4	91	53	8	D326 0640	D327 0640	D328 0640
6.5	91	53	8	D326 0650	D327 0650	D328 0650
6.6	91	53	8	D326 0660	D327 0660	D328 0660
6.7	91	53	8	D326 0670	D327 0670	D328 0670
6.76 17/64	91	53	8	D326 0676	•	•

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 5xD



- Suitable for materials up to 1400N/mm²
- Strong core
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



Catalogue Code				D326	D327	D328
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
6.8	91	53	8	D326 0680	D327 0680	D328 0680
6.9	91	53	8	D326 0690	D327 0690	D328 0690
7.0	91	53	8	D326 0700	D327 0700	D328 0700
7.1	91	53	8	D326 0710	D327 0710	D328 0710
7.14	9/32	91	53	D326 0714	•	•
7.2	91	53	8	D326 0720	D327 0720	D328 0720
7.3	91	53	8	D326 0730	D327 0730	D328 0730
7.4	91	53	8	D326 0740	D327 0740	D328 0740
7.5	91	53	8	D326 0750	D327 0750	D328 0750
7.54	19/64	91	53	D326 0754	•	•
7.6	91	53	8	D326 0760	D327 0760	D328 0760
7.7	91	53	8	D326 0770	D327 0770	D328 0770
7.8	91	53	8	D326 0780	D327 0780	D328 0780
7.9	91	53	8	D326 0790	D327 0790	D328 0790
7.94	5/16	91	53	D326 0794	•	•
8.0	91	53	8	D326 0800	D327 0800	D328 0800
8.1	103	61	10	D326 0810	D327 0810	D328 0810
8.2	103	61	10	D326 0820	D327 0820	D328 0820
8.3	103	61	10	D326 0830	D327 0830	D328 0830
8.33	21/64	103	61	D326 0833	•	•
8.4	103	61	10	D326 0840	D327 0840	D328 0840
8.5	103	61	10	D326 0850	D327 0850	D328 0850
8.6	103	61	10	D326 0860	D327 0860	D328 0860
8.7	103	61	10	D326 0870	D327 0870	D328 0870
8.73	11/32	103	61	D326 0873	•	•
8.8	103	61	10	D326 0880	D327 0880	D328 0880
8.9	103	61	10	D326 0890	D327 0890	D328 0890
9.0	103	61	10	D326 0900	D327 0900	D328 0900
9.1	103	61	10	D326 0910	D327 0910	D328 0910
9.13	23/64	103	61	D326 0913	•	•
9.2	103	61	10	D326 0920	D327 0920	D328 0920
9.3	103	61	10	D326 0930	D327 0930	D328 0930
9.4	103	61	10	D326 0940	D327 0940	D328 0940
9.5	103	61	10	D326 0950	D327 0950	D328 0950
9.53	3/8	103	61	D326 0953	•	•
9.6	103	61	10	D326 0960	D327 0960	D328 0960
9.7	103	61	10	D326 0970	D327 0970	D328 0970
9.8	103	61	10	D326 0980	D327 0980	D328 0980
9.9	103	61	10	D326 0990	D327 0990	D328 0990
9.92	25/64	103	61	D326 0992	•	•
10.0	103	61	10	D326 1000	D327 1000	D328 1000
10.1	118	71	12	D326 1010	D327 1010	D328 1010
10.2	118	71	12	D326 1020	D327 1020	D328 1020
10.3	118	71	12	D326 1030	D327 1030	D328 1030
10.32	13/32	118	71	D326 1032	•	•
10.4	118	71	12	D326 1040	D327 1040	D328 1040
10.5	118	71	12	D326 1050	D327 1050	D328 1050
10.6	118	71	12	D326 1060	D327 1060	D328 1060

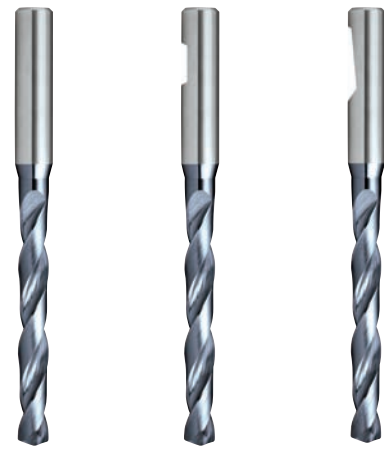
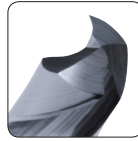
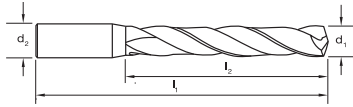
• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

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Drills Carbide, 5xD



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- Strong core
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



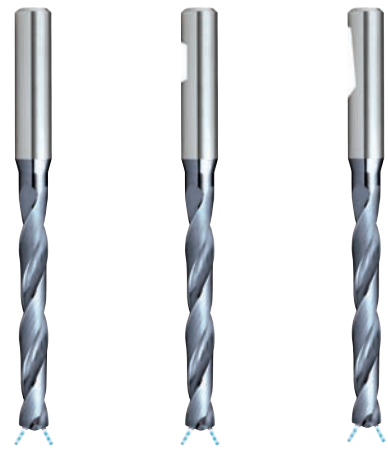
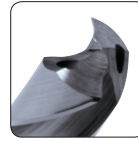
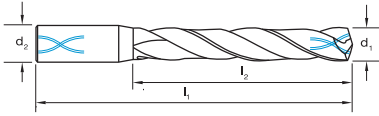
Catalogue Code				D326	D327	D328
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
10.7	118	71	12	D326 1070	D327 1070	D328 1070
10.8	118	71	12	D326 1080	D327 1080	D328 1080
10.9	118	71	12	D326 1090	D327 1090	D328 1090
11.0	118	71	12	D326 1100	D327 1100	D328 1100
11.1	118	71	12	D326 1110	D327 1110	D328 1110
11.11 7/16	118	71	12	D326 1111	•	•
11.2	118	71	12	D326 1120	D327 1120	D328 1120
11.3	118	71	12	D326 1130	D327 1130	D328 1130
11.4	118	71	12	D326 1140	D327 1140	D328 1140
11.5	118	71	12	D326 1150	D327 1150	D328 1150
11.6	118	71	12	D326 1160	D327 1160	D328 1160
11.7	118	71	12	D326 1170	D327 1170	D328 1170
11.8	118	71	12	D326 1180	D327 1180	D328 1180
11.9	118	71	12	D326 1190	D327 1190	D328 1190
11.91 15/32	118	71	12	D326 1191	•	•
12.0	118	71	12	D326 1200	D327 1200	D328 1200
12.5	124	77	14	D326 1250	D327 1250	D328 1250
12.69 1/2	124	77	14	D326 1269	•	•
12.8	124	77	14	D326 1280	D327 1280	D328 1280
13.0	124	77	14	D326 1300	D327 1300	D328 1300
13.49 17/32	124	77	14	D326 1349	•	•
13.5	124	77	14	D326 1350	D327 1350	D328 1350
13.8	124	77	14	•	•	•
14.0	124	77	14	D326 1400	D327 1400	D328 1400
14.29 9/16	124	77	14	D326 1429	•	•
14.5	133	83	16	D326 1450	D327 1450	D328 1450
14.8	133	83	16	D326 1480	D327 1480	D328 1480
15.0	133	83	16	D326 1500	D327 1500	D328 1500
15.5	133	83	16	D326 1550	D327 1550	D328 1550
15.8	133	83	16	D326 1580	D327 1580	D328 1580
15.88 5/8	133	83	16	D326 1588	•	•
16.0	133	83	16	D326 1600	D327 1600	D328 1600
16.5	143	93	18	D326 1650	D327 1650	D328 1650
16.8	143	93	18	D326 1680	D327 1680	D328 1680
17.0	143	93	18	D326 1700	D327 1700	D328 1700
17.46 11/16	143	93	18	D326 1746	•	•
17.5	143	93	18	D326 1750	D327 1750	D328 1750
17.8	143	93	18	D326 1780	D327 1780	D328 1780
18.0	143	93	18	D326 1800	D327 1800	D328 1800
18.5	153	101	20	D326 1850	D327 1850	D328 1850
19.0	153	101	20	D326 1900	D327 1900	D328 1900
19.05 3/4	153	101	20	D326 1905	•	•
19.5	153	101	20	D326 1950	D327 1950	D328 1950
19.8	153	101	20	•	•	•
20.0	153	101	20	D326 2000	D327 2000	D328 2000

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 5xD, IK



- Suitable for materials up to 1400N/mm²
- Strong core with internal coolant supply
- Micro geometry & surface conditioning for optimal chip control
- AlCrN for maximum tool life



Catalogue Code				D332	D333	D334
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30°	R30°	R30°
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
3.0	66	28	6	D332 0300	D333 0300	D334 0300
3.1	66	28	6	D332 0310	D333 0310	D334 0310
3.18 1/8	66	28	6	D332 0318	•	•
3.2	66	28	6	D332 0320	D333 0320	D334 0320
3.3	66	28	6	D332 0330	D333 0330	D334 0330
3.4	66	28	6	D332 0340	D333 0340	D334 0340
3.5	66	28	6	D332 0350	D333 0350	D334 0350
3.57 9/64	66	28	6	D332 0357	•	•
3.6	66	28	6	D332 0360	D333 0360	D334 0360
3.7	66	28	6	D332 0370	D333 0370	D334 0370
3.8	74	36	6	D332 0380	D333 0380	D334 0380
3.9	74	36	6	D332 0390	D333 0390	D334 0390
3.97 5/32	74	36	6	D332 0397	•	•
4.0	74	36	6	D332 0400	D333 0400	D334 0400
4.1	74	36	6	D332 0410	D333 0410	D334 0410
4.2	74	36	6	D332 0420	D333 0420	D334 0420
4.3	74	36	6	D332 0430	D333 0430	D334 0430
4.37 11/64	74	36	6	D332 0437	•	•
4.4	74	36	6	D332 0440	D333 0440	D334 0440
4.5	74	36	6	D332 0450	D333 0450	D334 0450
4.6	74	36	6	D332 0460	D333 0460	D334 0460
4.7	74	36	6	D332 0470	D333 0470	D334 0470
4.76 3/16	74	36	6	D332 0476	•	•
4.8	82	44	6	D332 0480	D333 0480	D334 0480
4.9	82	44	6	D332 0490	D333 0490	D334 0490
5.0	82	44	6	D332 0500	D333 0500	D334 0500
5.1	82	44	6	D332 0510	D333 0510	D334 0510
5.16 13/64	82	44	6	D332 0516	•	•
5.2	82	44	6	D332 0520	D333 0520	D334 0520
5.3	82	44	6	D332 0530	D333 0530	D334 0530
5.4	82	44	6	D332 0540	D333 0540	D334 0540
5.5	82	44	6	D332 0550	D333 0550	D334 0550
5.56 7/32	82	44	6	D332 0556	•	•
5.6	82	44	6	D332 0560	D333 0560	D334 0560
5.7	82	44	6	D332 0570	D333 0570	D334 0570
5.8	82	44	6	D332 0580	D333 0580	D334 0580
5.9	82	44	6	D332 0590	D333 0590	D334 0590
5.95 15/64	82	44	6	D332 0595	•	•
6.0	82	44	6	D332 0600	D333 0600	D334 0600
6.1	91	53	8	D332 0610	D333 0610	D334 0610
6.2	91	53	8	D332 0620	D333 0620	D334 0620
6.3	91	53	8	D332 0630	D333 0630	D334 0630
6.35 9/32	91	53	8	D332 0635	•	•
6.4	91	53	8	D332 0640	D333 0640	D334 0640
6.5	91	53	8	D332 0650	D333 0650	D334 0650
6.6	91	53	8	D332 0660	D333 0660	D334 0660
6.7	91	53	8	D332 0670	D333 0670	D334 0670
6.76 17/64	91	53	8	D332 0676	•	•

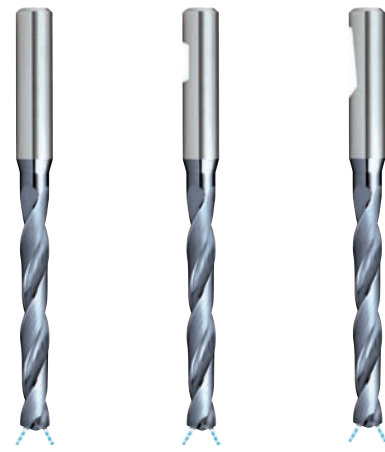
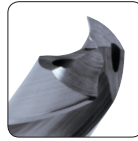
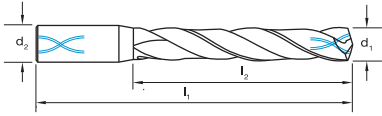
• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

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Drills Carbide, 5xD, IK



- Suitable for materials up to 1400N/mm²
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- AlCrN for maximum tool life



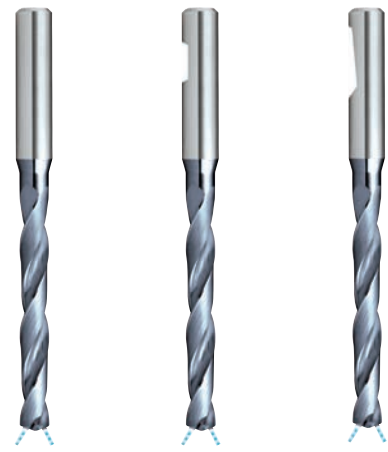
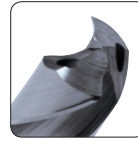
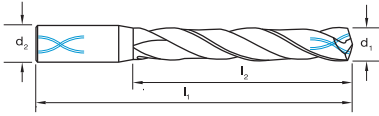
Catalogue Code				D332	D333	D334
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
6.8	91	53	8	D332 0680	D333 0680	D334 0680
6.9	91	53	8	D332 0690	D333 0690	D334 0690
7.0	91	53	8	D332 0700	D333 0700	D334 0700
7.1	91	53	8	D332 0710	D333 0710	D334 0710
7.14	9/32	91	53	D332 0714	•	•
7.2	91	53	8	D332 0720	D333 0720	D334 0720
7.3	91	53	8	D332 0730	D333 0730	D334 0730
7.4	91	53	8	D332 0740	D333 0740	D334 0740
7.5	91	53	8	D332 0750	D333 0750	D334 0750
7.54	19/64	91	53	D332 0754	•	•
7.6	91	53	8	D332 0760	D333 0760	D334 0760
7.7	91	53	8	D332 0770	D333 0770	D334 0770
7.8	91	53	8	D332 0780	D333 0780	D334 0780
7.9	91	53	8	D332 0790	D333 0790	D334 0790
7.94	5/16	91	53	D332 0794	•	•
8.0	91	53	8	D332 0800	D333 0800	D334 0800
8.1	103	61	10	D332 0810	D333 0810	D334 0810
8.2	103	61	10	D332 0820	D333 0820	D334 0820
8.3	103	61	10	D332 0830	D333 0830	D334 0830
8.33	21/64	103	61	D332 0833	•	•
8.4	103	61	10	D332 0840	D333 0840	D334 0840
8.5	103	61	10	D332 0850	D333 0850	D334 0850
8.6	103	61	10	D332 0860	D333 0860	D334 0860
8.7	103	61	10	D332 0870	D333 0870	D334 0870
8.73	11/32	103	61	D332 0873	•	•
8.8	103	61	10	D332 0880	D333 0880	D334 0880
8.9	103	61	10	D332 0890	D333 0890	D334 0890
9.0	103	61	10	D332 0900	D333 0900	D334 0900
9.1	103	61	10	D332 0910	D333 0910	D334 0910
9.13	23/64	103	61	D332 0913	•	•
9.2	103	61	10	D332 0920	D333 0920	D334 0920
9.3	103	61	10	D332 0930	D333 0930	D334 0930
9.4	103	61	10	D332 0940	D333 0940	D334 0940
9.5	103	61	10	D332 0950	D333 0950	D334 0950
9.53	3/8	103	61	D332 0953	•	•
9.6	103	61	10	D332 0960	D333 0960	D334 0960
9.7	103	61	10	D332 0970	D333 0970	D334 0970
9.8	103	61	10	D332 0980	D333 0980	D334 0980
9.9	103	61	10	D332 0990	D333 0990	D334 0990
9.92	25/64	103	61	D332 0992	•	•
10.0	103	61	10	D332 1000	D333 1000	D334 1000
10.1	118	71	12	D332 1010	D333 1010	D334 1010
10.2	118	71	12	D332 1020	D333 1020	D334 1020
10.3	118	71	12	D332 1030	D333 1030	D334 1030
10.32	13/32	118	71	D332 1032	•	•
10.4	118	71	12	D332 1040	D333 1040	D334 1040
10.5	118	71	12	D332 1050	D333 1050	D334 1050
10.6	118	71	12	D332 1060	D333 1060	D334 1060

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 5xD, IK



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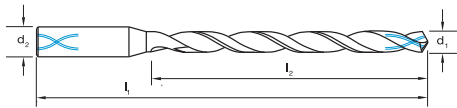
Catalogue Code				D332	D333	D334
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
10.7	118	71	12	D332 1070	D333 1070	D334 1070
10.8	118	71	12	D332 1080	D333 1080	D334 1080
10.9	118	71	12	D332 1090	D333 1090	D334 1090
11.0	118	71	12	D332 1100	D333 1100	D334 1100
11.1	118	71	12	D332 1110	D333 1110	D334 1110
11.11 7/16	118	71	12	D332 1111	•	•
11.2	118	71	12	D332 1120	D333 1120	D334 1120
11.3	118	71	12	D332 1130	D333 1130	D334 1130
11.4	118	71	12	D332 1140	D333 1140	D334 1140
11.5	118	71	12	D332 1150	D333 1150	D334 1150
11.6	118	71	12	D332 1160	D333 1160	D334 1160
11.7	118	71	12	D332 1170	D333 1170	D334 1170
11.8	118	71	12	D332 1180	D333 1180	D334 1180
11.9	118	71	12	D332 1190	D333 1190	D334 1190
11.91 15/32	118	71	12	D332 1191	•	•
12.0	118	71	12	D332 1200	D333 1200	D334 1200
12.5	124	77	14	D332 1250	D333 1250	D334 1250
12.69 1/2	124	77	14	D332 1269	•	•
12.8	124	77	14	D332 1280	D333 1280	D334 1280
13.0	124	77	14	D332 1300	D333 1300	D334 1300
13.49 17/32	124	77	14	D332 1349	•	•
13.5	124	77	14	D332 1350	D333 1350	D334 1350
13.8	124	77	14	•	•	•
14.0	124	77	14	D332 1400	D333 1400	D334 1400
14.29 9/16	124	77	14	D332 1429	•	•
14.5	133	83	16	D332 1450	D333 1450	D334 1450
14.8	133	83	16	•	•	•
15.0	133	83	16	D332 1500	D333 1500	D334 1500
15.5	133	83	16	D332 1550	D333 1550	D334 1550
15.8	133	83	16	•	•	•
15.88 5/8	133	83	16	D332 1588	•	•
16.0	133	83	16	D332 1600	D333 1600	D334 1600
16.5	143	93	18	D332 1650	D333 1650	D334 1650
16.8	143	93	18	•	•	•
17.0	143	93	18	D332 1700	D333 1700	D334 1700
17.46 11/16	143	93	18	D332 1746	•	•
17.5	143	93	18	D332 1750	D333 1750	D334 1750
17.8	143	93	18	•	•	•
18.0	143	93	18	D332 1800	D333 1800	D334 1800
18.5	153	101	20	D332 1850	D333 1850	D334 1850
19.0	153	101	20	D332 1900	D333 1900	D334 1900
19.05 3/4	153	101	20	D332 1905	•	•
19.5	153	101	20	D332 1950	D333 1950	D334 1950
19.8	153	101	20	•	•	•
20.0	153	101	20	D332 2000	D333 2000	D334 2000

• Available on request as special manufacture. Subject to lead time.
NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 8xD, IK



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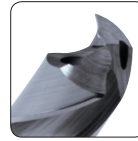
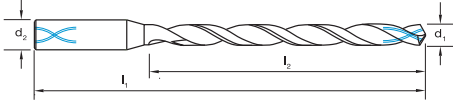
Catalogue Code				D335	D336	D337
Discount Group				A0210	A0210	A0210
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
5.0	95	50	6	D335 0500	D336 0500	D337 0500
5.1	95	50	6	D335 0510	D336 0510	D337 0510
5.2	95	50	6	D335 0520	D336 0520	D337 0520
5.3	95	50	6	D335 0530	D336 0530	D337 0530
5.4	95	50	6	D335 0540	D336 0540	D337 0540
5.5	95	50	6	D335 0550	D336 0550	D337 0550
5.6	95	50	6	D335 0560	D336 0560	D337 0560
5.7	95	50	6	D335 0570	D336 0570	D337 0570
5.8	95	50	6	D335 0580	D336 0580	D337 0580
5.9	95	50	6	D335 0590	D336 0590	D337 0590
6.0	95	50	6	D335 0600	D336 0600	D337 0600
6.1	114	66	8	D335 0610	D336 0610	D337 0610
6.2	114	66	8	D335 0620	D336 0620	D337 0620
6.3	114	66	8	D335 0630	D336 0630	D337 0630
6.4	114	66	8	D335 0640	D336 0640	D337 0640
6.5	114	66	8	D335 0650	D336 0650	D337 0650
6.6	114	66	8	D335 0660	D336 0660	D337 0660
6.7	114	66	8	D335 0670	D336 0670	D337 0670
6.8	114	66	8	D335 0680	D336 0680	D337 0680
6.9	114	76	8	D335 0690	D336 0690	D337 0690
7.0	114	76	8	D335 0700	D336 0700	D337 0700
7.1	114	76	8	D335 0710	D336 0710	D337 0710
7.2	114	76	8	D335 0720	D336 0720	D337 0720
7.3	114	76	8	D335 0730	D336 0730	D337 0730
7.4	114	76	8	D335 0740	D336 0740	D337 0740
7.5	114	76	8	D335 0750	D336 0750	D337 0750
7.6	114	76	8	D335 0760	D336 0760	D337 0760
7.7	114	76	8	D335 0770	D336 0770	D337 0770
7.8	114	76	8	D335 0780	D336 0780	D337 0780
7.9	114	76	8	D335 0790	D336 0790	D337 0790
8.0	114	76	8	D335 0800	D336 0800	D337 0800
8.1	142	87	10	D335 0810	D336 0810	D337 0810
8.2	142	87	10	D335 0820	D336 0820	D337 0820
8.3	142	87	10	D335 0830	D336 0830	D337 0830
8.4	142	87	10	D335 0840	D336 0840	D337 0840
8.5	142	87	10	D335 0850	D336 0850	D337 0850
8.6	142	87	10	D335 0860	D336 0860	D337 0860
8.7	142	87	10	D335 0870	D336 0870	D337 0870
8.8	142	87	10	D335 0880	D336 0880	D337 0880
8.9	142	87	10	D335 0890	D336 0890	D337 0890
9.0	142	87	10	D335 0900	D336 0900	D337 0900
9.1	142	95	10	D335 0910	D336 0910	D337 0910
9.2	142	95	10	D335 0920	D336 0920	D337 0920
9.3	142	95	10	D335 0930	D336 0930	D337 0930

NOTE: HB & HE shanks available, subject to lead time.

Drills Carbide, 8xD, IK



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				D335	D336	D337
Catalogue Code				A0210	A0210	A0210
Discount Group						
Material				VHM	VHM	VHM
Surface Finish				AlCrN	AlCrN	AlCrN
Colour Ring & Application				Up to 1400N/mm ²	Up to 1400N/mm ²	Up to 1400N/mm ²
Geometry				R30° - IK	R30° - IK	R30° - IK
Point Type				140° Form C	140° Form C	140° Form C
Shank Form (DIN 6535)				HA	HB	HE
d ₁ (m7)	l ₁	l ₂	d ₂ (h6)	Item #	Item #	Item #
9.4	142	95	10	D335 0940	D336 0940	D337 0940
9.5	142	95	10	D335 0950	D336 0950	D337 0950
9.6	142	95	10	D335 0960	D336 0960	D337 0960
9.7	142	95	10	D335 0970	D336 0970	D337 0970
9.8	142	95	10	D335 0980	D336 0980	D337 0980
9.9	142	95	10	D335 0990	D336 0990	D337 0990
10.0	142	95	10	D335 1000	D336 1000	D337 1000
10.1	162	106	12	D335 1010	D336 1010	D337 1010
10.2	162	106	12	D335 1020	D336 1020	D337 1020
10.3	162	106	12	D335 1030	D336 1030	D337 1030
10.4	162	106	12	D335 1040	D336 1040	D337 1040
10.5	162	106	12	D335 1050	D336 1050	D337 1050
10.6	162	106	12	D335 1060	D336 1060	D337 1060
10.7	162	106	12	D335 1070	D336 1070	D337 1070
10.8	162	106	12	D335 1080	D336 1080	D337 1080
10.9	162	106	12	D335 1090	D336 1090	D337 1090
11.0	162	106	12	D335 1100	D336 1100	D337 1100
11.1	162	114	12	D335 1110	D336 1110	D337 1110
11.2	162	114	12	D335 1120	D336 1120	D337 1120
11.3	162	114	12	D335 1130	D336 1130	D337 1130
11.4	162	114	12	D335 1140	D336 1140	D337 1140
11.5	162	114	12	D335 1150	D336 1150	D337 1150
11.6	162	114	12	D335 1160	D336 1160	D337 1160
11.7	162	114	12	D335 1170	D336 1170	D337 1170
11.8	162	114	12	D335 1180	D336 1180	D337 1180
11.9	162	114	12	D335 1190	D336 1190	D337 1190
12.0	162	114	12	D335 1200	D336 1200	D337 1200

NOTE: HB & HE shanks available, subject to lead time.

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