

PATRIOT HP[®] 928 CARBIDE DRILLS

WITH 2,000 NEW SKUS



COMPLETE METALWORKING SOLUTIONS
(800) 991-4225 www.ahbinc.com
ISO Certified customerservice@ahbinc.com

The Patriot HP[®] 928 Solid Carbide Drill has a 140° point angle and designed for optimized tool life, chip evacuation, and close hole tolerance.



928 Carbide Drill

With a 140° point angle and precision through coolant and non-coolant-through options, the PATRIOT HP® 928 Solid Carbide Drill is optimized for tool life, chip evacuation, and close tolerance. Designed and manufactured in the USA to excel in all ISO class workpiece materials and in the most demanding applications.

Benefits

- Process security
- Optimal chip evacuation
- Increased tool life
- Improved surface finish
- Performs well in oil, emulsion, and dry conditions
- Cost savings



Application Area

- Multi-material drilling
- Ideal industry segment:
 - General engineering
 - Die and mold
 - Energy
 - Aerospace
 - Defense
 - Automotive

Specifications

Diameter	0.0314" to 0.7874"
Hole tolerances	H6, H8, H9
Length of diameter	3xD, 5xD, 8xD
Size	Standard & Metric



140° Drill point for optimal centering reducing runout

Chromium based coating providing superior heat protection in the cut

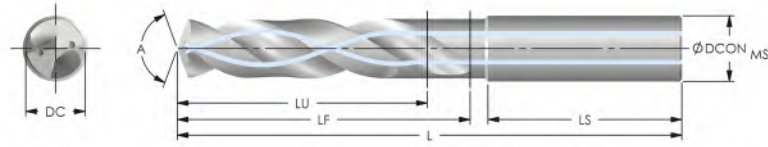
MQL compatible shank as a standard



Reinforced flute face

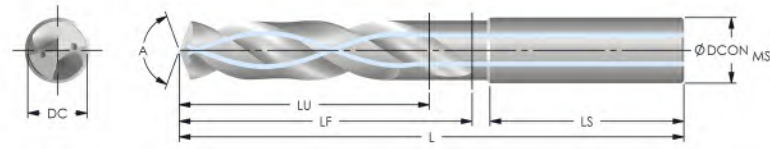
DIN shanks - H6 tolerance on all sizes

IMPERIAL SIZE



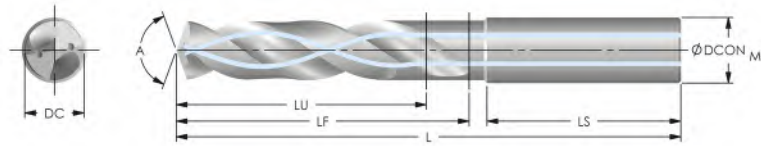
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#67	0.0320	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-002	928-100-002
#67	0.0320	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-240	928-100-240
#67	0.0320	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-478	928-100-478
#66	0.0330	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-003	928-100-003
#66	0.0330	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-241	928-100-241
#66	0.0330	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-479	928-100-479
#65	0.0350	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-004	928-100-004
#65	0.0350	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-242	928-100-242
#65	0.0350	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-480	928-100-480
#64	0.0360	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-006	928-100-006
#64	0.0360	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-244	928-100-244
#64	0.0360	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-482	928-100-482
#63	0.0370	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-007	928-100-007
#63	0.0370	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-245	928-100-245
#63	0.0370	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-483	928-100-483
#62	0.0380	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-008	928-100-008
#62	0.0380	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-246	928-100-246
#62	0.0380	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-484	928-100-484
#61	0.0390	0.1575 4.00	140.0	0.1181	0.1969	1.1024	2.2835	3XD	928-000-009	928-100-009
#61	0.0390	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	5XD	928-000-247	928-100-247
#61	0.0390	0.1575 4.00	140.0	0.2756	0.3543	1.1024	2.2835	8XD	928-000-485	928-100-485
#60	0.0400	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-011	928-100-011
#60	0.0400	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-249	928-100-249
#60	0.0400	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-487	928-100-487
#59	0.0410	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-012	928-100-012
#59	0.0410	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-250	928-100-250
#59	0.0410	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-488	928-100-488
#58	0.0420	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-013	928-100-013
#58	0.0420	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-251	928-100-251
#58	0.0420	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-489	928-100-489
#57	0.0430	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-014	928-100-014
#57	0.0430	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-252	928-100-252
#57	0.0430	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-490	928-100-490
#56	0.0465	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-017	928-100-017
#56	0.0465	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-255	928-100-255
#56	0.0465	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-493	928-100-493
3/64	0.0469	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-018	928-100-018
3/64	0.0469	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-256	928-100-256
3/64	0.0469	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-494	928-100-494
#55	0.0520	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-023	928-100-023
#55	0.0520	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-261	928-100-261
#55	0.0520	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-499	928-100-499
#54	0.0550	0.1575 4.00	140.0	0.1969	0.2756	1.1024	2.2835	3XD	928-000-025	928-100-025
#54	0.0550	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	5XD	928-000-263	928-100-263
#54	0.0550	0.1575 4.00	140.0	0.3937	0.4724	1.1024	2.2835	8XD	928-000-501	928-100-501

IMPERIAL SIZE



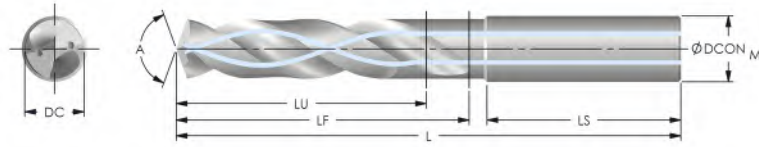
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#53	0.0595	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-028	928-100-028
#53	0.0595	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-266	928-100-266
#53	0.0595	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-504	928-100-504
1/16	0.0625	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-030	928-100-030
1/16	0.0625	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-268	928-100-268
1/16	0.0625	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-506	928-100-506
#52	0.0635	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-032	928-100-032
#52	0.0635	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-270	928-100-270
#52	0.0635	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-508	928-100-508
#51	0.0670	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-033	928-100-033
#51	0.0670	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-271	928-100-271
#51	0.0670	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-509	928-100-509
#50	0.0700	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-034	928-100-034
#50	0.0700	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-272	928-100-272
#50	0.0700	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-510	928-100-510
#49	0.0730	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-035	928-100-035
#49	0.0730	0.1575 4.00	140.0	0.3543	0.4724	1.1024	2.2835	5XD	928-000-273	928-100-273
#49	0.0730	0.1575 4.00	140.0	0.5906	0.7087	1.1024	2.2835	8XD	928-000-511	928-100-511
#48	0.0760	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-036	928-100-036
#48	0.0760	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-274	928-100-274
#48	0.0760	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-512	928-100-512
5/64	0.0781	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-037	928-100-037
5/64	0.0781	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-275	928-100-275
5/64	0.0781	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-513	928-100-513
#47	0.0785	0.1575 4.00	140.0	0.2362	0.3543	1.1024	2.2835	3XD	928-000-038	928-100-038
#47	0.0785	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-276	928-100-276
#47	0.0785	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-514	928-100-514
#46	0.0810	0.1575 4.00	140.0	0.3543	0.5118	1.1024	2.2835	3XD	928-000-040	928-100-040
#46	0.0810	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-278	928-100-278
#46	0.0810	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-516	928-100-516
#45	0.0820	0.1575 4.00	140.0	0.3543	0.5118	1.1024	2.2835	3XD	928-000-041	928-100-041
#45	0.0820	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-279	928-100-279
#45	0.0820	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-517	928-100-517
#44	0.0860	0.1575 4.00	140.0	0.3543	0.5118	1.1024	2.2835	3XD	928-000-042	928-100-042
#44	0.0860	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-280	928-100-280
#44	0.0860	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-518	928-100-518
#43	0.0890	0.1575 4.00	140.0	0.3543	0.5118	1.1024	2.2835	3XD	928-000-043	928-100-043
#43	0.0890	0.1575 4.00	140.0	0.5512	0.7087	1.1024	2.2835	5XD	928-000-281	928-100-281
#43	0.0890	0.1575 4.00	140.0	0.8661	1.0236	1.1024	2.5984	8XD	928-000-519	928-100-519
#42	0.0935	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-044	928-100-044
#42	0.0935	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-282	928-100-282
#42	0.0935	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-520	928-100-520
3/32	0.0938	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-045	928-100-045
3/32	0.0938	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-283	928-100-283
3/32	0.0938	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-521	928-100-521

IMPERIAL SIZE



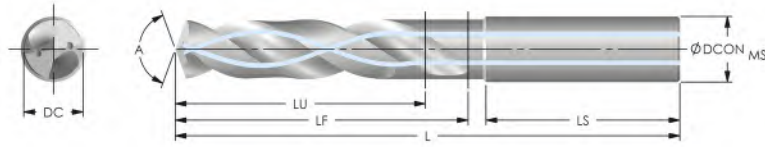
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#41	0.0960	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-046	928-100-046
#41	0.0960	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-284	928-100-284
#41	0.0960	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-522	928-100-522
#40	0.0980	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-047	928-100-047
#40	0.0980	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-285	928-100-285
#40	0.0980	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-523	928-100-523
#39	0.0995	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-049	928-100-049
#39	0.0995	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-287	928-100-287
#39	0.0995	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-525	928-100-525
#38	0.1015	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-050	928-100-050
#38	0.1015	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-288	928-100-288
#38	0.1015	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-526	928-100-526
#37	0.1040	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-051	928-100-051
#37	0.1040	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-289	928-100-289
#37	0.1040	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-527	928-100-527
#36	0.1065	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-052	928-100-052
#36	0.1065	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-290	928-100-290
#36	0.1065	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-528	928-100-528
7/64	0.1094	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-053	928-100-053
7/64	0.1094	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-291	928-100-291
7/64	0.1094	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-529	928-100-529
#35	0.1100	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-054	928-100-054
#35	0.1100	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-292	928-100-292
#35	0.1100	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-530	928-100-530
#34	0.1110	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-055	928-100-055
#34	0.1110	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-293	928-100-293
#34	0.1110	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-531	928-100-531
#33	0.1130	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-056	928-100-056
#33	0.1130	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-294	928-100-294
#33	0.1130	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-532	928-100-532
#32	0.1160	0.1575 4.00	140.0	0.4724	0.6693	1.1024	2.2835	3XD	928-000-057	928-100-057
#32	0.1160	0.1575 4.00	140.0	0.6693	0.8661	1.1024	2.2835	5XD	928-000-295	928-100-295
#32	0.1160	0.1575 4.00	140.0	0.9843	1.1811	1.1024	2.5984	8XD	928-000-533	928-100-533
#31	0.1200	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-059	928-100-059
#31	0.1200	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-297	928-100-297
#31	0.1200	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-535	928-100-535
1/8	0.1250	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-060	928-100-060
1/8	0.1250	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-298	928-100-298
1/8	0.1250	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-536	928-100-536
#30	0.1285	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-062	928-100-062
#30	0.1285	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-300	928-100-300
#30	0.1285	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-538	928-100-538
#29	0.1360	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-063	928-100-063
#29	0.1360	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-301	928-100-301
#29	0.1360	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-539	928-100-539

IMPERIAL SIZE



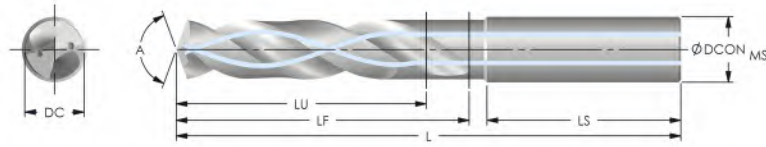
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#28	0.1405	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-065	928-100-065
#28	0.1405	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-303	928-100-303
#28	0.1405	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-541	928-100-541
9/64	0.1406	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-066	928-100-066
9/64	0.1406	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-304	928-100-304
9/64	0.1406	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-542	928-100-542
#27	0.1440	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-068	928-100-068
#27	0.1440	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-306	928-100-306
#27	0.1440	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-544	928-100-544
#26	0.1470	0.2362 6.00	140.0	0.5512	0.7874	1.4173	2.4409	3XD	928-000-069	928-100-069
#26	0.1470	0.2362 6.00	140.0	0.9055	1.1024	1.4173	2.5984	5XD	928-000-307	928-100-307
#26	0.1470	0.2362 6.00	140.0	1.2992	1.5748	1.4173	3.0709	8XD	928-000-545	928-100-545
#25	0.1495	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-070	928-100-070
#25	0.1495	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-308	928-100-308
#25	0.1495	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-546	928-100-546
#24	0.1520	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-071	928-100-071
#24	0.1520	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-309	928-100-309
#24	0.1520	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-547	928-100-547
#23	0.1540	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-073	928-100-073
#23	0.1540	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-311	928-100-311
#23	0.1540	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-549	928-100-549
5/32	0.1562	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-074	928-100-074
5/32	0.1562	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-312	928-100-312
5/32	0.1562	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-550	928-100-550
#22	0.1570	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-075	928-100-075
#22	0.1570	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-313	928-100-313
#22	0.1570	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-551	928-100-551
#21	0.1590	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-077	928-100-077
#21	0.1590	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-315	928-100-315
#21	0.1590	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-553	928-100-553
#20	0.1610	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-078	928-100-078
#20	0.1610	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-316	928-100-316
#20	0.1610	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-554	928-100-554
#19	0.1660	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-080	928-100-080
#19	0.1660	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-318	928-100-318
#19	0.1660	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-556	928-100-556
#18	0.1695	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-081	928-100-081
#18	0.1695	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-319	928-100-319
#18	0.1695	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-557	928-100-557
11/64	0.1719	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-082	928-100-082
11/64	0.1719	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-320	928-100-320
11/64	0.1719	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-558	928-100-558
#17	0.1730	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-083	928-100-083
#17	0.1730	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-321	928-100-321
#17	0.1730	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-559	928-100-559

IMPERIAL SIZE



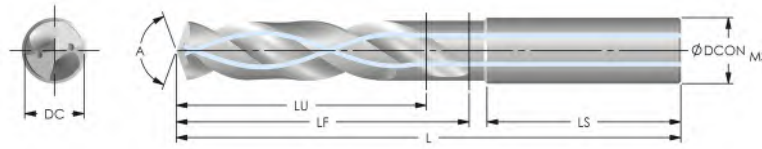
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#16	0.1770	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-085	928-100-085
#16	0.1770	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-323	928-100-323
#16	0.1770	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-561	928-100-561
#15	0.1800	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-087	928-100-087
#15	0.1800	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-325	928-100-325
#15	0.1800	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-563	928-100-563
#14	0.1820	0.2362 6.00	140.0	0.6693	0.9449	1.4173	2.5984	3XD	928-000-089	928-100-089
#14	0.1820	0.2362 6.00	140.0	1.1417	1.4173	1.4173	2.9134	5XD	928-000-327	928-100-327
#14	0.1820	0.2362 6.00	140.0	1.6142	1.9291	1.4173	3.4252	8XD	928-000-565	928-100-565
3/16	0.1875	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-091	928-100-091
3/16	0.1875	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-329	928-100-329
3/16	0.1875	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-567	928-100-567
#11	0.1910	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-093	928-100-093
#11	0.1910	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-331	928-100-331
#11	0.1910	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-569	928-100-569
#10	0.1935	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-095	928-100-095
#10	0.1935	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-333	928-100-333
#10	0.1935	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-571	928-100-571
#9	0.1960	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-096	928-100-096
#9	0.1960	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-334	928-100-334
#9	0.1960	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-572	928-100-572
#8	0.1990	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-098	928-100-098
#8	0.1990	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-336	928-100-336
#8	0.1990	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-574	928-100-574
#7	0.2010	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-100	928-100-100
#7	0.2010	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-338	928-100-338
#7	0.2010	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-576	928-100-576
13/64	0.2031	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-101	928-100-101
13/64	0.2031	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-339	928-100-339
13/64	0.2031	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-577	928-100-577
#6	0.2040	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-102	928-100-102
#6	0.2040	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-340	928-100-340
#6	0.2040	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-578	928-100-578
#5	0.2055	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-104	928-100-104
#5	0.2055	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-342	928-100-342
#5	0.2055	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-580	928-100-580
#4	0.2090	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-106	928-100-106
#4	0.2090	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-344	928-100-344
#4	0.2090	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-582	928-100-582
#3	0.2130	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-108	928-100-108
#3	0.2130	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-346	928-100-346
#3	0.2130	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-584	928-100-584
7/32	0.2188	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-110	928-100-110
7/32	0.2188	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-348	928-100-348
7/32	0.2188	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-586	928-100-586

IMPERIAL SIZE



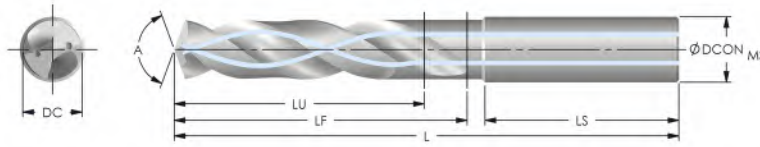
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
#2	0.2210	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-112	928-100-112
#2	0.2210	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-350	928-100-350
#2	0.2210	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-588	928-100-588
#1	0.2280	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-114	928-100-114
#1	0.2280	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-352	928-100-352
#1	0.2280	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-590	928-100-590
A	0.2340	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-117	928-100-117
A	0.2340	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-355	928-100-355
A	0.2340	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-593	928-100-593
15/64	0.2344	0.2362 6.00	140.0	0.7874	1.1024	1.4173	2.5984	3XD	928-000-118	928-100-118
15/64	0.2344	0.2362 6.00	140.0	1.3780	1.7323	1.4173	3.2283	5XD	928-000-356	928-100-356
15/64	0.2344	0.2362 6.00	140.0	1.8898	2.2047	1.4173	3.7008	8XD	928-000-594	928-100-594
B	0.2380	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-120	928-100-120
B	0.2380	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-358	928-100-358
B	0.2380	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-596	928-100-596
C	0.2420	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-122	928-100-122
C	0.2420	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-360	928-100-360
C	0.2420	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-598	928-100-598
D	0.2460	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-124	928-100-124
D	0.2460	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-362	928-100-362
D	0.2460	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-600	928-100-600
E(1/4)	0.2500	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-126	928-100-126
E(1/4)	0.2500	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-364	928-100-364
E(1/4)	0.2500	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-602	928-100-602
F	0.2570	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-129	928-100-129
F	0.2570	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-367	928-100-367
F	0.2570	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-605	928-100-605
G	0.2610	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-131	928-100-131
G	0.2610	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-369	928-100-369
G	0.2610	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-607	928-100-607
17/64	0.2656	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-133	928-100-133
17/64	0.2656	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-371	928-100-371
17/64	0.2656	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-609	928-100-609
H	0.2660	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-134	928-100-134
H	0.2660	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-372	928-100-372
H	0.2660	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-610	928-100-610
I	0.2720	0.3150 8.00	140.0	0.9449	1.3386	1.4173	3.1102	3XD	928-000-137	928-100-137
I	0.2720	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-375	928-100-375
I	0.2720	0.3150 8.00	140.0	2.2441	2.6378	1.4173	4.1339	8XD	928-000-613	928-100-613
J	0.2770	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-139	928-100-139
J	0.2770	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-377	928-100-377
J	0.2770	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-615	928-100-615
K	0.2810	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-141	928-100-141
K	0.2810	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-379	928-100-379
K	0.2810	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-617	928-100-617
9/32	0.2812	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-142	928-100-142
9/32	0.2812	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-380	928-100-380
9/32	0.2812	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-618	928-100-618

IMPERIAL SIZE



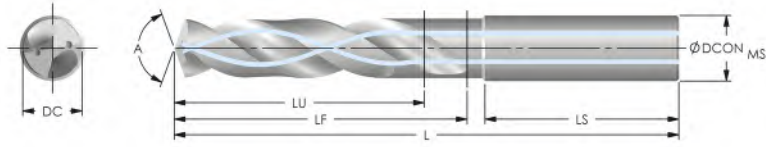
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
L	0.2900	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-145	928-100-145
L	0.2900	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-383	928-100-383
L	0.2900	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-621	928-100-621
M	0.2950	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-147	928-100-147
M	0.2950	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-385	928-100-385
M	0.2950	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-623	928-100-623
19/64	0.2969	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-149	928-100-149
19/64	0.2969	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-387	928-100-387
19/64	0.2969	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-625	928-100-625
N	0.3020	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-151	928-100-151
N	0.3020	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-389	928-100-389
N	0.3020	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-627	928-100-627
5/16	0.3125	0.3150 8.00	140.0	1.1417	1.6142	1.4173	3.1102	3XD	928-000-155	928-100-155
5/16	0.3125	0.3150 8.00	140.0	1.6929	2.0866	1.4173	3.5827	5XD	928-000-393	928-100-393
5/16	0.3125	0.3150 8.00	140.0	2.5197	3.0315	1.4173	4.5276	8XD	928-000-631	928-100-631
O	0.3160	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-157	928-100-157
O	0.3160	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-395	928-100-395
O	0.3160	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-633	928-100-633
P	0.3230	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-160	928-100-160
P	0.3230	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-398	928-100-398
P	0.3230	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-636	928-100-636
21/64	0.3281	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-162	928-100-162
21/64	0.3281	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-400	928-100-400
21/64	0.3281	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-638	928-100-638
Q	0.3320	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-164	928-100-164
Q	0.3320	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-402	928-100-402
Q	0.3320	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-640	928-100-640
R	0.3390	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-167	928-100-167
R	0.3390	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-405	928-100-405
R	0.3390	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-643	928-100-643
11/32	0.3438	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-169	928-100-169
11/32	0.3438	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-407	928-100-407
11/32	0.3438	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-645	928-100-645
S	0.3480	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-171	928-100-171
S	0.3480	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-409	928-100-409
S	0.3480	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-647	928-100-647
T	0.3580	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-174	928-100-174
T	0.3580	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-412	928-100-412
T	0.3580	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-650	928-100-650
23/64	0.3594	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-176	928-100-176
23/64	0.3594	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-414	928-100-414
23/64	0.3594	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-652	928-100-652
U	0.3680	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-179	928-100-179
U	0.3680	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-417	928-100-417
U	0.3680	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-655	928-100-655

IMPERIAL SIZE



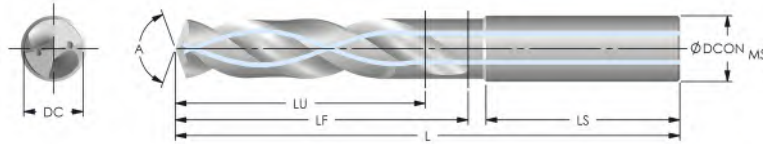
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
3/8	0.3750	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-182	928-100-182
3/8	0.3750	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-420	928-100-420
3/8	0.3750	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-658	928-100-658
V	0.3770	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-183	928-100-183
V	0.3770	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-421	928-100-421
V	0.3770	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-659	928-100-659
W	0.3860	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-187	928-100-187
W	0.3860	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-425	928-100-425
W	0.3860	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-663	928-100-663
25/64	0.3906	0.3937 10.00	140.0	1.3780	1.8504	1.5748	3.5039	3XD	928-000-189	928-100-189
25/64	0.3906	0.3937 10.00	140.0	1.9291	2.4016	1.5748	4.0551	5XD	928-000-427	928-100-427
25/64	0.3906	0.3937 10.00	140.0	2.9528	3.5039	1.5748	5.1575	8XD	928-000-665	928-100-665
X	0.3970	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-191	928-100-191
X	0.3970	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-429	928-100-429
X	0.3970	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-667	928-100-667
Y	0.4040	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-192	928-100-192
Y	0.4040	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-430	928-100-430
Y	0.4040	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-668	928-100-668
13/32	0.4062	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-193	928-100-193
13/32	0.4062	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-431	928-100-431
13/32	0.4062	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-669	928-100-669
Z	0.4130	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-194	928-100-194
Z	0.4130	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-432	928-100-432
Z	0.4130	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-670	928-100-670
27/64	0.4219	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-196	928-100-196
27/64	0.4219	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-434	928-100-434
27/64	0.4219	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-672	928-100-672
7/16	0.4375	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-198	928-100-198
7/16	0.4375	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-436	928-100-436
7/16	0.4375	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-674	928-100-674
29/64	0.4531	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-200	928-100-200
29/64	0.4531	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-438	928-100-438
29/64	0.4531	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-676	928-100-676
15/32	0.4688	0.4724 12.00	140.0	1.5748	2.1654	1.7717	4.0157	3XD	928-000-201	928-100-201
15/32	0.4688	0.4724 12.00	140.0	2.2047	2.7953	1.7717	4.6457	5XD	928-000-439	928-100-439
15/32	0.4688	0.4724 12.00	140.0	3.6220	4.2520	1.7717	6.1024	8XD	928-000-677	928-100-677
31/64	0.4844	0.5512 14.00	140.0	1.6929	2.3622	1.7717	4.2126	3XD	928-000-203	928-100-203
31/64	0.4844	0.5512 14.00	140.0	2.3622	3.0315	1.7717	4.8819	5XD	928-000-441	928-100-441
31/64	0.4844	0.5512 14.00	140.0	4.3307	5.3150	1.7717	7.1654	8XD	928-000-679	928-100-679
1/2	0.5000	0.5512 14.00	140.0	1.6929	2.3622	1.7717	4.2126	3XD	928-000-205	928-100-205
1/2	0.5000	0.5512 14.00	140.0	2.3622	3.0315	1.7717	4.8819	5XD	928-000-443	928-100-443
1/2	0.5000	0.5512 14.00	140.0	4.3307	5.3150	1.7717	7.1654	8XD	928-000-681	928-100-681
33/64	0.5156	0.5512 14.00	140.0	1.6929	2.3622	1.7717	4.2126	3XD	928-000-207	928-100-207
33/64	0.5156	0.5512 14.00	140.0	2.3622	3.0315	1.7717	4.8819	5XD	928-000-445	928-100-445
33/64	0.5156	0.5512 14.00	140.0	4.3307	5.3150	1.7717	7.1654	8XD	928-000-683	928-100-683

IMPERIAL SIZE



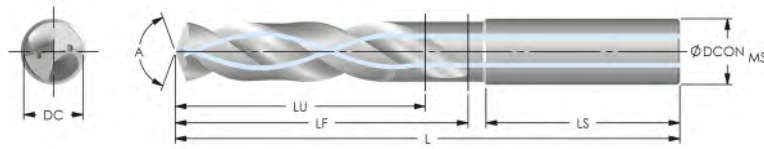
SIZE	DC [in.]	DCONms [in. mm]	A [°]	LU [in.]	LF [in.]	LS [in.]	L [in.]	L/DC RATIO	Product # Coolant Thru	Product # Non-Coolant Thru
17/32	0.5312	0.5512 14.00	140.0	1.6929	2.3622	1.7717	4.2126	3XD	928-000-208	928-100-208
17/32	0.5312	0.5512 14.00	140.0	2.3622	3.0315	1.7717	4.8819	5XD	928-000-446	928-100-446
17/32	0.5312	0.5512 14.00	140.0	4.3307	5.3150	1.7717	7.1654	8XD	928-000-684	928-100-684
35/64	0.5469	0.5512 14.00	140.0	1.6929	2.3622	1.7717	4.2126	3XD	928-000-210	928-100-210
35/64	0.5469	0.5512 14.00	140.0	2.3622	3.0315	1.7717	4.8819	5XD	928-000-448	928-100-448
35/64	0.5469	0.5512 14.00	140.0	4.3307	5.3150	1.7717	7.1654	8XD	928-000-686	928-100-686
9/16	0.5625	0.6299 16.00	140.0	1.7717	2.5591	1.8898	4.5276	3XD	928-000-212	928-100-212
9/16	0.5625	0.6299 16.00	140.0	2.4803	3.2677	1.8898	5.2362	5XD	928-000-450	928-100-450
9/16	0.5625	0.6299 16.00	140.0	5.0394	6.1024	1.8898	8.0315	8XD	928-000-688	928-100-688
37/64	0.5781	0.6299 16.00	140.0	1.7717	2.5591	1.8898	4.5276	3XD	928-000-214	928-100-214
37/64	0.5781	0.6299 16.00	140.0	2.4803	3.2677	1.8898	5.2362	5XD	928-000-452	928-100-452
37/64	0.5781	0.6299 16.00	140.0	5.0394	6.1024	1.8898	8.0315	8XD	928-000-690	928-100-690
19/32	0.5938	0.6299 16.00	140.0	1.7717	2.5591	1.8898	4.5276	3XD	928-000-216	928-100-216
19/32	0.5938	0.6299 16.00	140.0	2.4803	3.2677	1.8898	5.2362	5XD	928-000-454	928-100-454
19/32	0.5938	0.6299 16.00	140.0	5.0394	6.1024	1.8898	8.0315	8XD	928-000-692	928-100-692
39/64	0.6094	0.6299 16.00	140.0	1.7717	2.5591	1.8898	4.5276	3XD	928-000-217	928-100-217
39/64	0.6094	0.6299 16.00	140.0	2.4803	3.2677	1.8898	5.2362	5XD	928-000-455	928-100-455
39/64	0.6094	0.6299 16.00	140.0	5.0394	6.1024	1.8898	8.0315	8XD	928-000-693	928-100-693
5/8	0.6250	0.6299 16.00	140.0	1.7717	2.5591	1.8898	4.5276	3XD	928-000-219	928-100-219
5/8	0.6250	0.6299 16.00	140.0	2.4803	3.2677	1.8898	5.2362	5XD	928-000-457	928-100-457
5/8	0.6250	0.6299 16.00	140.0	5.0394	6.1024	1.8898	8.0315	8XD	928-000-695	928-100-695
41/64	0.6406	0.7087 18.00	140.0	2.0079	2.8740	1.8898	4.8425	3XD	928-000-221	928-100-221
41/64	0.6406	0.7087 18.00	140.0	2.7953	3.6614	1.8898	5.6299	5XD	928-000-459	928-100-459
41/64	0.6406	0.7087 18.00	140.0	5.6693	6.6929	1.8898	8.7795	8XD	928-000-697	928-100-697
21/32	0.6562	0.7087 18.00	140.0	2.0079	2.8740	1.8898	4.8425	3XD	928-000-223	928-100-223
21/32	0.6562	0.7087 18.00	140.0	2.7953	3.6614	1.8898	5.6299	5XD	928-000-461	928-100-461
21/32	0.6562	0.7087 18.00	140.0	5.6693	6.6929	1.8898	8.7795	8XD	928-000-699	928-100-699
43/64	0.6719	0.7087 18.00	140.0	2.0079	2.8740	1.8898	4.8425	3XD	928-000-225	928-100-225
43/64	0.6719	0.7087 18.00	140.0	2.7953	3.6614	1.8898	5.6299	5XD	928-000-463	928-100-463
43/64	0.6719	0.7087 18.00	140.0	5.6693	6.6929	1.8898	8.7795	8XD	928-000-701	928-100-701
11/16	0.6875	0.7087 18.00	140.0	2.0079	2.8740	1.8898	4.8425	3XD	928-000-226	928-100-226
11/16	0.6875	0.7087 18.00	140.0	2.7953	3.6614	1.8898	5.6299	5XD	928-000-464	928-100-464
11/16	0.6875	0.7087 18.00	140.0	5.6693	6.6929	1.8898	8.7795	8XD	928-000-702	928-100-702
45/64	0.7031	0.7087 18.00	140.0	2.0079	2.8740	1.8898	4.8425	3XD	928-000-228	928-100-228
45/64	0.7031	0.7087 18.00	140.0	2.7953	3.6614	1.8898	5.6299	5XD	928-000-466	928-100-466
45/64	0.7031	0.7087 18.00	140.0	5.6693	6.6929	1.8898	8.7795	8XD	928-000-704	928-100-704
23/32	0.7188	0.7874 20.00	140.0	2.1654	3.1102	1.9685	5.1969	3XD	928-000-230	928-100-230
23/32	0.7188	0.7874 20.00	140.0	3.0315	3.9764	1.9685	6.0630	5XD	928-000-468	928-100-468
23/32	0.7188	0.7874 20.00	140.0	6.2992	7.2835	1.9685	9.6457	8XD	928-000-706	928-100-706
47/64	0.7344	0.7874 20.00	140.0	2.1654	3.1102	1.9685	5.1969	3XD	928-000-232	928-100-232
47/64	0.7344	0.7874 20.00	140.0	3.0315	3.9764	1.9685	6.0630	5XD	928-000-470	928-100-470
47/64	0.7344	0.7874 20.00	140.0	6.2992	7.2835	1.9685	9.6457	8XD	928-000-708	928-100-708
3/4	0.7500	0.7874 20.00	140.0	2.1654	3.1102	1.9685	5.1969	3XD	928-000-234	928-100-234
3/4	0.7500	0.7874 20.00	140.0	3.0315	3.9764	1.9685	6.0630	5XD	928-000-472	928-100-472
3/4	0.7500	0.7874 20.00	140.0	6.2992	7.2835	1.9685	9.6457	8XD	928-000-710	928-100-710
49/64	0.7656	0.7874 20.00	140.0	2.1654	3.1102	1.9685	5.1969	3XD	928-000-235	928-100-235
49/64	0.7656	0.7874 20.00	140.0	3.0315	3.9764	1.9685	6.0630	5XD	928-000-473	928-100-473
49/64	0.7656	0.7874 20.00	140.0	6.2992	7.2835	1.9685	9.6457	8XD	928-000-711	928-100-711
25/32	0.7812	0.7874 20.00	140.0	2.1654	3.1102	1.9685	5.1969	3XD	928-000-237	928-100-237
25/32	0.7812	0.7874 20.00	140.0	3.0315	3.9764	1.9685	6.0630	5XD	928-000-475	928-100-475
25/32	0.7812	0.7874 20.00	140.0	6.2992	7.2835	1.9685	9.6457	8XD	928-000-713	928-100-713

METRIC SIZE



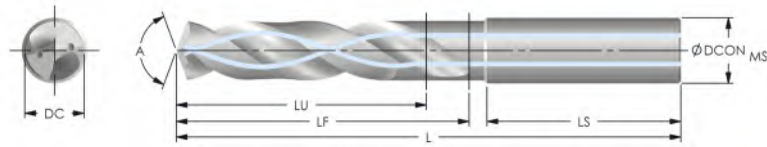
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
0.80	0.0315	4.00	140.0	3.00	5.00	28.00	58.00	3XD	928-000-001	928-100-001
0.80	0.0315	4.00	140.0	5.00	7.00	28.00	58.00	5XD	928-000-239	928-100-239
0.80	0.0315	4.00	140.0	7.00	9.00	28.00	58.00	8XD	928-000-477	928-100-477
0.90	0.0354	4.00	140.0	3.00	5.00	28.00	58.00	3XD	928-000-005	928-100-005
0.90	0.0354	4.00	140.0	5.00	7.00	28.00	58.00	5XD	928-000-243	928-100-243
0.90	0.0354	4.00	140.0	7.00	9.00	28.00	58.00	8XD	928-000-481	928-100-481
1.00	0.0394	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-010	928-100-010
1.00	0.0394	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-248	928-100-248
1.00	0.0394	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-486	928-100-486
1.10	0.0433	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-015	928-100-015
1.10	0.0433	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-253	928-100-253
1.10	0.0433	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-491	928-100-491
1.12	0.0441	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-016	928-100-016
1.12	0.0441	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-254	928-100-254
1.12	0.0441	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-492	928-100-492
1.20	0.0472	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-019	928-100-019
1.20	0.0472	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-257	928-100-257
1.20	0.0472	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-495	928-100-495
1.25	0.0492	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-020	928-100-020
1.25	0.0492	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-258	928-100-258
1.25	0.0492	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-496	928-100-496
1.27	0.0500	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-021	928-100-021
1.27	0.0500	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-259	928-100-259
1.27	0.0500	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-497	928-100-497
1.30	0.0512	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-022	928-100-022
1.30	0.0512	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-260	928-100-260
1.30	0.0512	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-498	928-100-498
1.35	0.0531	4.00	140.0	5.00	7.00	28.00	58.00	3XD	928-000-024	928-100-024
1.35	0.0531	4.00	140.0	6.00	9.00	28.00	58.00	5XD	928-000-262	928-100-262
1.35	0.0531	4.00	140.0	10.00	12.00	28.00	58.00	8XD	928-000-500	928-100-500
1.40	0.0551	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-715	928-100-715
1.40	0.0551	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-813	928-100-813
1.40	0.0551	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-911	928-100-911
1.45	0.0571	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-026	928-100-026
1.45	0.0571	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-264	928-100-264
1.45	0.0571	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-502	928-100-502
1.50	0.0591	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-027	928-100-027
1.50	0.0591	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-265	928-100-265
1.50	0.0591	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-503	928-100-503
1.55	0.0610	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-029	928-100-029
1.55	0.0610	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-267	928-100-267
1.55	0.0610	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-505	928-100-505
1.60	0.0630	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-031	928-100-031
1.60	0.0630	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-269	928-100-269
1.60	0.0630	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-507	928-100-507
1.70	0.0669	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-716	928-100-716
1.70	0.0669	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-814	928-100-814
1.70	0.0669	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-912	928-100-912
1.80	0.0709	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-717	928-100-717
1.80	0.0709	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-815	928-100-815
1.80	0.0709	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-913	928-100-913
1.90	0.0748	4.00	140.0	6.00	9.00	28.00	58.00	3XD	928-000-718	928-100-718
1.90	0.0748	4.00	140.0	9.00	12.00	28.00	58.00	5XD	928-000-816	928-100-816
1.90	0.0748	4.00	140.0	15.00	18.00	28.00	58.00	8XD	928-000-914	928-100-914
2.00	0.0787	4.00	140.0	9.00	13.00	28.00	58.00	3XD	928-000-039	928-100-039
2.00	0.0787	4.00	140.0	14.00	18.00	28.00	58.00	5XD	928-000-277	928-100-277
2.00	0.0787	4.00	140.0	22.00	26.00	28.00	66.00	8XD	928-000-515	928-100-515

METRIC SIZE



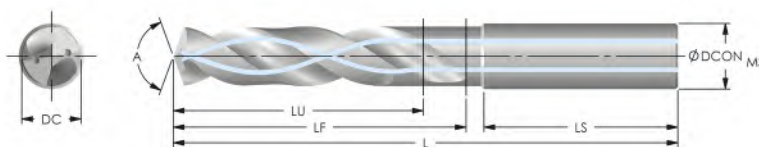
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
2.10	0.0827	4.00	140.0	9.00	13.00	28.00	58.00	3XD	928-000-719	928-100-719
2.10	0.0827	4.00	140.0	14.00	18.00	28.00	58.00	5XD	928-000-817	928-100-817
2.10	0.0827	4.00	140.0	22.00	26.00	28.00	66.00	8XD	928-000-915	928-100-915
2.20	0.0866	4.00	140.0	9.00	13.00	28.00	58.00	3XD	928-000-720	928-100-720
2.20	0.0866	4.00	140.0	14.00	18.00	28.00	58.00	5XD	928-000-818	928-100-818
2.20	0.0866	4.00	140.0	22.00	26.00	28.00	66.00	8XD	928-000-916	928-100-916
2.30	0.0906	4.00	140.0	9.00	13.00	28.00	58.00	3XD	928-000-721	928-100-721
2.30	0.0906	4.00	140.0	14.00	18.00	28.00	58.00	5XD	928-000-819	928-100-819
2.30	0.0906	4.00	140.0	22.00	26.00	28.00	66.00	8XD	928-000-917	928-100-917
2.40	0.0945	4.00	140.0	9.00	13.00	28.00	58.00	3XD	928-000-722	928-100-722
2.40	0.0945	4.00	140.0	14.00	18.00	28.00	58.00	5XD	928-000-820	928-100-820
2.40	0.0945	4.00	140.0	22.00	26.00	28.00	66.00	8XD	928-000-918	928-100-918
2.50	0.0984	4.00	140.0	12.00	17.00	28.00	58.00	3XD	928-000-048	928-100-048
2.50	0.0984	4.00	140.0	17.00	22.00	28.00	58.00	5XD	928-000-286	928-100-286
2.50	0.0984	4.00	140.0	25.00	30.00	28.00	66.00	8XD	928-000-524	928-100-524
2.60	0.1024	4.00	140.0	12.00	17.00	28.00	58.00	3XD	928-000-723	928-100-723
2.60	0.1024	4.00	140.0	17.00	22.00	28.00	58.00	5XD	928-000-821	928-100-821
2.60	0.1024	4.00	140.0	25.00	30.00	28.00	66.00	8XD	928-000-919	928-100-919
2.70	0.1063	4.00	140.0	12.00	17.00	28.00	58.00	3XD	928-000-724	928-100-724
2.70	0.1063	4.00	140.0	17.00	22.00	28.00	58.00	5XD	928-000-822	928-100-822
2.70	0.1063	4.00	140.0	25.00	30.00	28.00	66.00	8XD	928-000-920	928-100-920
2.80	0.1102	4.00	140.0	12.00	17.00	28.00	58.00	3XD	928-000-725	928-100-725
2.80	0.1102	4.00	140.0	17.00	22.00	28.00	58.00	5XD	928-000-823	928-100-823
2.80	0.1102	4.00	140.0	25.00	30.00	28.00	66.00	8XD	928-000-921	928-100-921
2.90	0.1142	4.00	140.0	12.00	17.00	28.00	58.00	3XD	928-000-726	928-100-726
2.90	0.1142	4.00	140.0	17.00	22.00	28.00	58.00	5XD	928-000-824	928-100-824
2.90	0.1142	4.00	140.0	25.00	30.00	28.00	66.00	8XD	928-000-922	928-100-922
3.00	0.1181	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-058	928-100-058
3.00	0.1181	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-296	928-100-296
3.00	0.1181	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-534	928-100-534
3.10	0.1220	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-727	928-100-727
3.10	0.1220	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-825	928-100-825
3.10	0.1220	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-923	928-100-923
3.20	0.1260	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-061	928-100-061
3.20	0.1260	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-299	928-100-299
3.20	0.1260	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-537	928-100-537
3.30	0.1299	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-728	928-100-728
3.30	0.1299	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-826	928-100-826
3.30	0.1299	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-924	928-100-924
3.40	0.1339	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-729	928-100-729
3.40	0.1339	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-827	928-100-827
3.40	0.1339	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-925	928-100-925
3.50	0.1378	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-064	928-100-064
3.50	0.1378	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-302	928-100-302
3.50	0.1378	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-540	928-100-540
3.60	0.1417	6.00	140.0	14.00	20.00	36.00	62.00	3XD	928-000-067	928-100-067
3.60	0.1417	6.00	140.0	23.00	28.00	36.00	66.00	5XD	928-000-305	928-100-305
3.60	0.1417	6.00	140.0	33.00	40.00	36.00	78.00	8XD	928-000-543	928-100-543
3.70	0.1457	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-730	928-100-730
3.70	0.1457	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-828	928-100-828
3.70	0.1457	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-926	928-100-926
3.80	0.1496	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-731	928-100-731
3.80	0.1496	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-829	928-100-829
3.80	0.1496	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-927	928-100-927

METRIC SIZE



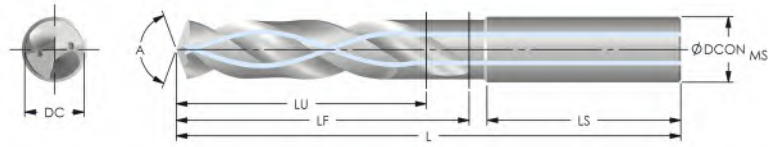
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
3.90	0.1535	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-072	928-100-072
3.90	0.1535	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-310	928-100-310
3.90	0.1535	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-548	928-100-548
4.00	0.1575	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-076	928-100-076
4.00	0.1575	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-314	928-100-314
4.00	0.1575	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-552	928-100-552
4.10	0.1614	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-079	928-100-079
4.10	0.1614	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-317	928-100-317
4.10	0.1614	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-555	928-100-555
4.20	0.1654	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-732	928-100-732
4.20	0.1654	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-830	928-100-830
4.20	0.1654	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-928	928-100-928
4.30	0.1693	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-733	928-100-733
4.30	0.1693	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-831	928-100-831
4.30	0.1693	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-929	928-100-929
4.40	0.1732	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-084	928-100-084
4.40	0.1732	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-322	928-100-322
4.40	0.1732	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-560	928-100-560
4.50	0.1772	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-086	928-100-086
4.50	0.1772	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-324	928-100-324
4.50	0.1772	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-562	928-100-562
4.60	0.1811	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-088	928-100-088
4.60	0.1811	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-326	928-100-326
4.60	0.1811	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-564	928-100-564
4.70	0.1850	6.00	140.0	17.00	24.00	36.00	66.00	3XD	928-000-090	928-100-090
4.70	0.1850	6.00	140.0	29.00	36.00	36.00	74.00	5XD	928-000-328	928-100-328
4.70	0.1850	6.00	140.0	41.00	49.00	36.00	87.00	8XD	928-000-566	928-100-566
4.80	0.1890	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-092	928-100-092
4.80	0.1890	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-330	928-100-330
4.80	0.1890	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-568	928-100-568
4.90	0.1929	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-094	928-100-094
4.90	0.1929	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-332	928-100-332
4.90	0.1929	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-570	928-100-570
5.00	0.1969	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-097	928-100-097
5.00	0.1969	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-335	928-100-335
5.00	0.1969	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-573	928-100-573
5.10	0.2008	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-099	928-100-099
5.10	0.2008	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-337	928-100-337
5.10	0.2008	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-575	928-100-575
5.20	0.2047	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-103	928-100-103
5.20	0.2047	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-341	928-100-341
5.20	0.2047	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-579	928-100-579
5.30	0.2087	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-105	928-100-105
5.30	0.2087	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-343	928-100-343
5.30	0.2087	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-581	928-100-581
5.40	0.2126	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-107	928-100-107
5.40	0.2126	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-345	928-100-345
5.40	0.2126	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-583	928-100-583
5.50	0.2165	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-109	928-100-109
5.50	0.2165	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-347	928-100-347
5.50	0.2165	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-585	928-100-585
5.60	0.2205	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-111	928-100-111
5.60	0.2205	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-349	928-100-349
5.60	0.2205	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-587	928-100-587

METRIC SIZE



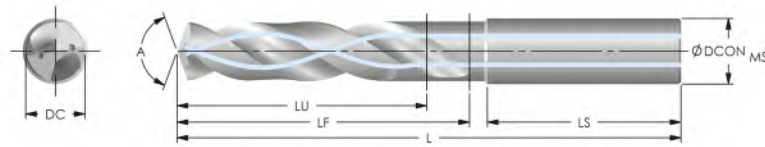
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
5.70	0.2244	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-113	928-100-113
5.70	0.2244	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-351	928-100-351
5.70	0.2244	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-589	928-100-589
5.80	0.2283	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-115	928-100-115
5.80	0.2283	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-353	928-100-353
5.80	0.2283	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-591	928-100-591
5.90	0.2323	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-116	928-100-116
5.90	0.2323	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-354	928-100-354
5.90	0.2323	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-592	928-100-592
6.00	0.2362	6.00	140.0	20.00	28.00	36.00	66.00	3XD	928-000-119	928-100-119
6.00	0.2362	6.00	140.0	35.00	44.00	36.00	82.00	5XD	928-000-357	928-100-357
6.00	0.2362	6.00	140.0	48.00	56.00	36.00	94.00	8XD	928-000-595	928-100-595
6.10	0.2402	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-121	928-100-121
6.10	0.2402	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-359	928-100-359
6.10	0.2402	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-597	928-100-597
6.20	0.2441	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-123	928-100-123
6.20	0.2441	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-361	928-100-361
6.20	0.2441	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-599	928-100-599
6.30	0.2480	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-125	928-100-125
6.30	0.2480	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-363	928-100-363
6.30	0.2480	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-601	928-100-601
6.40	0.2520	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-127	928-100-127
6.40	0.2520	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-365	928-100-365
6.40	0.2520	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-603	928-100-603
6.50	0.2559	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-128	928-100-128
6.50	0.2559	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-366	928-100-366
6.50	0.2559	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-604	928-100-604
6.60	0.2598	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-130	928-100-130
6.60	0.2598	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-368	928-100-368
6.60	0.2598	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-606	928-100-606
6.70	0.2638	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-132	928-100-132
6.70	0.2638	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-370	928-100-370
6.70	0.2638	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-608	928-100-608
6.80	0.2677	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-135	928-100-135
6.80	0.2677	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-373	928-100-373
6.80	0.2677	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-611	928-100-611
6.90	0.2717	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-136	928-100-136
6.90	0.2717	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-374	928-100-374
6.90	0.2717	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-612	928-100-612
7.00	0.2756	8.00	140.0	24.00	34.00	36.00	79.00	3XD	928-000-138	928-100-138
7.00	0.2756	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-376	928-100-376
7.00	0.2756	8.00	140.0	57.00	67.00	36.00	105.00	8XD	928-000-614	928-100-614
7.10	0.2795	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-140	928-100-140
7.10	0.2795	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-378	928-100-378
7.10	0.2795	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-616	928-100-616
7.20	0.2835	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-143	928-100-143
7.20	0.2835	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-381	928-100-381
7.20	0.2835	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-619	928-100-619
7.30	0.2874	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-144	928-100-144
7.30	0.2874	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-382	928-100-382
7.30	0.2874	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-620	928-100-620
7.40	0.2913	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-146	928-100-146
7.40	0.2913	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-384	928-100-384
7.40	0.2913	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-622	928-100-622

METRIC SIZE



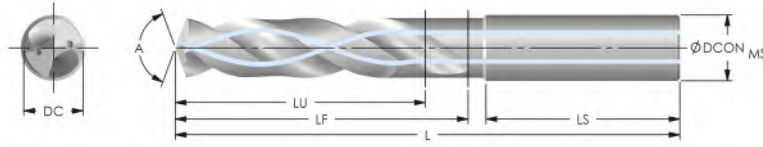
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
7.50	0.2953	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-148	928-100-148
7.50	0.2953	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-386	928-100-386
7.50	0.2953	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-624	928-100-624
7.60	0.2992	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-150	928-100-150
7.60	0.2992	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-388	928-100-388
7.60	0.2992	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-626	928-100-626
7.70	0.3031	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-152	928-100-152
7.70	0.3031	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-390	928-100-390
7.70	0.3031	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-628	928-100-628
7.80	0.3071	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-153	928-100-153
7.80	0.3071	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-391	928-100-391
7.80	0.3071	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-629	928-100-629
7.90	0.3110	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-154	928-100-154
7.90	0.3110	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-392	928-100-392
7.90	0.3110	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-630	928-100-630
8.00	0.3150	8.00	140.0	29.00	41.00	36.00	79.00	3XD	928-000-156	928-100-156
8.00	0.3150	8.00	140.0	43.00	53.00	36.00	91.00	5XD	928-000-394	928-100-394
8.00	0.3150	8.00	140.0	64.00	77.00	36.00	115.00	8XD	928-000-632	928-100-632
8.10	0.3189	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-158	928-100-158
8.10	0.3189	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-396	928-100-396
8.10	0.3189	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-634	928-100-634
8.20	0.3228	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-159	928-100-159
8.20	0.3228	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-397	928-100-397
8.20	0.3228	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-635	928-100-635
8.30	0.3268	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-161	928-100-161
8.30	0.3268	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-399	928-100-399
8.30	0.3268	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-637	928-100-637
8.40	0.3307	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-163	928-100-163
8.40	0.3307	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-401	928-100-401
8.40	0.3307	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-639	928-100-639
8.50	0.3346	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-165	928-100-165
8.50	0.3346	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-403	928-100-403
8.50	0.3346	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-641	928-100-641
8.60	0.3386	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-166	928-100-166
8.60	0.3386	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-404	928-100-404
8.60	0.3386	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-642	928-100-642
8.70	0.3425	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-168	928-100-168
8.70	0.3425	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-406	928-100-406
8.70	0.3425	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-644	928-100-644
8.80	0.3465	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-170	928-100-170
8.80	0.3465	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-408	928-100-408
8.80	0.3465	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-646	928-100-646
8.90	0.3504	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-172	928-100-172
8.90	0.3504	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-410	928-100-410
8.90	0.3504	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-648	928-100-648
9.00	0.3543	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-173	928-100-173
9.00	0.3543	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-411	928-100-411
9.00	0.3543	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-649	928-100-649
9.10	0.3583	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-175	928-100-175
9.10	0.3583	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-413	928-100-413
9.10	0.3583	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-651	928-100-651
9.20	0.3622	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-177	928-100-177
9.20	0.3622	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-415	928-100-415
9.20	0.3622	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-653	928-100-653

METRIC SIZE



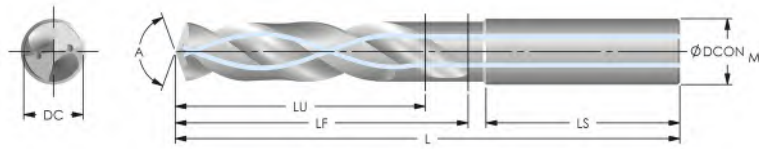
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
9.30	0.3661	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-178	928-100-178
9.30	0.3661	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-416	928-100-416
9.30	0.3661	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-654	928-100-654
9.40	0.3701	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-180	928-100-180
9.40	0.3701	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-418	928-100-418
9.40	0.3701	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-656	928-100-656
9.50	0.3740	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-181	928-100-181
9.50	0.3740	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-419	928-100-419
9.50	0.3740	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-657	928-100-657
9.60	0.3780	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-184	928-100-184
9.60	0.3780	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-422	928-100-422
9.60	0.3780	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-660	928-100-660
9.70	0.3819	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-185	928-100-185
9.70	0.3819	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-423	928-100-423
9.70	0.3819	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-661	928-100-661
9.80	0.3858	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-186	928-100-186
9.80	0.3858	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-424	928-100-424
9.80	0.3858	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-662	928-100-662
9.90	0.3898	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-188	928-100-188
9.90	0.3898	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-426	928-100-426
9.90	0.3898	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-664	928-100-664
10.00	0.3937	10.00	140.0	35.00	47.00	40.00	89.00	3XD	928-000-190	928-100-190
10.00	0.3937	10.00	140.0	49.00	61.00	40.00	103.00	5XD	928-000-428	928-100-428
10.00	0.3937	10.00	140.0	75.00	89.00	40.00	131.00	8XD	928-000-666	928-100-666
10.10	0.3976	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-734	928-100-734
10.10	0.3976	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-832	928-100-832
10.10	0.3976	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-930	928-100-930
10.20	0.4016	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-735	928-100-735
10.20	0.4016	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-833	928-100-833
10.20	0.4016	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-931	928-100-931
10.30	0.4055	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-736	928-100-736
10.30	0.4055	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-834	928-100-834
10.30	0.4055	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-932	928-100-932
10.40	0.4094	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-737	928-100-737
10.40	0.4094	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-835	928-100-835
10.40	0.4094	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-933	928-100-933
10.50	0.4134	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-195	928-100-195
10.50	0.4134	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-433	928-100-433
10.50	0.4134	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-671	928-100-671
10.60	0.4173	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-738	928-100-738
10.60	0.4173	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-836	928-100-836
10.60	0.4173	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-934	928-100-934
10.70	0.4213	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-739	928-100-739
10.70	0.4213	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-837	928-100-837
10.70	0.4213	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-935	928-100-935
10.80	0.4252	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-740	928-100-740
10.80	0.4252	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-838	928-100-838
10.80	0.4252	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-936	928-100-936
10.90	0.4291	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-741	928-100-741
10.90	0.4291	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-839	928-100-839
10.90	0.4291	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-937	928-100-937
11.00	0.4331	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-197	928-100-197
11.00	0.4331	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-435	928-100-435
11.00	0.4331	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-673	928-100-673

METRIC SIZE



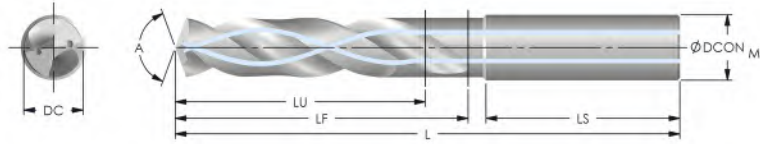
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
11.10	0.4370	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-742	928-100-742
11.10	0.4370	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-840	928-100-840
11.10	0.4370	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-938	928-100-938
11.20	0.4409	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-743	928-100-743
11.20	0.4409	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-841	928-100-841
11.20	0.4409	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-939	928-100-939
11.30	0.4449	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-744	928-100-744
11.30	0.4449	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-842	928-100-842
11.30	0.4449	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-940	928-100-940
11.40	0.4488	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-745	928-100-745
11.40	0.4488	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-843	928-100-843
11.40	0.4488	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-941	928-100-941
11.50	0.4528	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-199	928-100-199
11.50	0.4528	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-437	928-100-437
11.50	0.4528	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-675	928-100-675
11.60	0.4567	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-746	928-100-746
11.60	0.4567	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-844	928-100-844
11.60	0.4567	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-942	928-100-942
11.70	0.4606	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-747	928-100-747
11.70	0.4606	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-845	928-100-845
11.70	0.4606	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-943	928-100-943
11.80	0.4646	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-748	928-100-748
11.80	0.4646	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-846	928-100-846
11.80	0.4646	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-944	928-100-944
11.90	0.4685	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-749	928-100-749
11.90	0.4685	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-847	928-100-847
11.90	0.4685	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-945	928-100-945
12.00	0.4724	12.00	140.0	40.00	55.00	45.00	102.00	3XD	928-000-202	928-100-202
12.00	0.4724	12.00	140.0	56.00	71.00	45.00	118.00	5XD	928-000-440	928-100-440
12.00	0.4724	12.00	140.0	92.00	108.00	45.00	155.00	8XD	928-000-678	928-100-678
12.10	0.4764	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-750	928-100-750
12.10	0.4764	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-848	928-100-848
12.10	0.4764	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-946	928-100-946
12.20	0.4803	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-751	928-100-751
12.20	0.4803	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-849	928-100-849
12.20	0.4803	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-947	928-100-947
12.30	0.4843	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-752	928-100-752
12.30	0.4843	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-850	928-100-850
12.30	0.4843	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-948	928-100-948
12.40	0.4882	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-753	928-100-753
12.40	0.4882	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-851	928-100-851
12.40	0.4882	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-949	928-100-949
12.50	0.4921	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-204	928-100-204
12.50	0.4921	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-442	928-100-442
12.50	0.4921	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-680	928-100-680
12.60	0.4961	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-754	928-100-754
12.60	0.4961	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-852	928-100-852
12.60	0.4961	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-950	928-100-950
12.80	0.5039	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-755	928-100-755
12.80	0.5039	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-853	928-100-853
12.80	0.5039	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-951	928-100-951
12.90	0.5079	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-756	928-100-756
12.90	0.5079	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-854	928-100-854
12.90	0.5079	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-952	928-100-952

METRIC SIZE



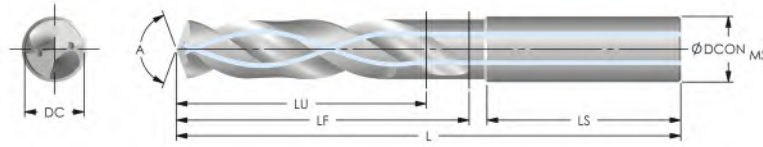
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
13.00	0.5118	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-206	928-100-206
13.00	0.5118	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-444	928-100-444
13.00	0.5118	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-682	928-100-682
13.10	0.5157	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-757	928-100-757
13.10	0.5157	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-855	928-100-855
13.10	0.5157	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-953	928-100-953
13.20	0.5197	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-758	928-100-758
13.20	0.5197	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-856	928-100-856
13.20	0.5197	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-954	928-100-954
13.30	0.5236	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-759	928-100-759
13.30	0.5236	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-857	928-100-857
13.30	0.5236	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-955	928-100-955
13.40	0.5276	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-760	928-100-760
13.40	0.5276	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-858	928-100-858
13.40	0.5276	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-956	928-100-956
13.50	0.5315	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-209	928-100-209
13.50	0.5315	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-447	928-100-447
13.50	0.5315	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-685	928-100-685
13.60	0.5354	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-761	928-100-761
13.60	0.5354	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-859	928-100-859
13.60	0.5354	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-957	928-100-957
13.70	0.5394	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-762	928-100-762
13.70	0.5394	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-860	928-100-860
13.70	0.5394	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-958	928-100-958
13.80	0.5433	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-763	928-100-763
13.80	0.5433	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-861	928-100-861
13.80	0.5433	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-959	928-100-959
13.90	0.5472	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-764	928-100-764
13.90	0.5472	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-862	928-100-862
13.90	0.5472	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-960	928-100-960
14.00	0.5512	14.00	140.0	43.00	60.00	45.00	107.00	3XD	928-000-211	928-100-211
14.00	0.5512	14.00	140.0	60.00	77.00	45.00	124.00	5XD	928-000-449	928-100-449
14.00	0.5512	14.00	140.0	110.00	135.00	45.00	182.00	8XD	928-000-687	928-100-687
14.10	0.5551	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-765	928-100-765
14.10	0.5551	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-863	928-100-863
14.10	0.5551	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-961	928-100-961
14.20	0.5591	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-766	928-100-766
14.20	0.5591	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-864	928-100-864
14.20	0.5591	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-962	928-100-962
14.30	0.5630	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-767	928-100-767
14.30	0.5630	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-865	928-100-865
14.30	0.5630	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-963	928-100-963
14.40	0.5669	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-768	928-100-768
14.40	0.5669	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-866	928-100-866
14.40	0.5669	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-964	928-100-964
14.50	0.5709	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-213	928-100-213
14.50	0.5709	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-451	928-100-451
14.50	0.5709	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-689	928-100-689
14.60	0.5748	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-769	928-100-769
14.60	0.5748	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-867	928-100-867
14.60	0.5748	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-965	928-100-965
14.70	0.5787	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-770	928-100-770
14.70	0.5787	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-868	928-100-868
14.70	0.5787	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-966	928-100-966

METRIC SIZE



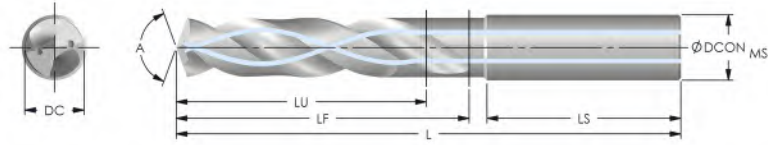
DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
14.80	0.5827	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-771	928-100-771
14.80	0.5827	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-869	928-100-869
14.80	0.5827	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-967	928-100-967
14.90	0.5866	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-772	928-100-772
14.90	0.5866	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-870	928-100-870
14.90	0.5866	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-968	928-100-968
15.00	0.5906	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-215	928-100-215
15.00	0.5906	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-453	928-100-453
15.00	0.5906	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-691	928-100-691
15.10	0.5945	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-773	928-100-773
15.10	0.5945	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-871	928-100-871
15.10	0.5945	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-969	928-100-969
15.20	0.5984	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-774	928-100-774
15.20	0.5984	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-872	928-100-872
15.20	0.5984	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-970	928-100-970
15.30	0.6024	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-775	928-100-775
15.30	0.6024	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-873	928-100-873
15.30	0.6024	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-971	928-100-971
15.40	0.6063	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-776	928-100-776
15.40	0.6063	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-874	928-100-874
15.40	0.6063	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-972	928-100-972
15.50	0.6102	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-218	928-100-218
15.50	0.6102	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-456	928-100-456
15.50	0.6102	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-694	928-100-694
15.60	0.6142	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-777	928-100-777
15.60	0.6142	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-875	928-100-875
15.60	0.6142	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-973	928-100-973
15.70	0.6181	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-778	928-100-778
15.70	0.6181	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-876	928-100-876
15.70	0.6181	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-974	928-100-974
15.80	0.6220	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-779	928-100-779
15.80	0.6220	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-877	928-100-877
15.80	0.6220	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-975	928-100-975
15.90	0.6260	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-780	928-100-780
15.90	0.6260	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-878	928-100-878
15.90	0.6260	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-976	928-100-976
16.00	0.6299	16.00	140.0	45.00	65.00	48.00	115.00	3XD	928-000-220	928-100-220
16.00	0.6299	16.00	140.0	63.00	83.00	48.00	133.00	5XD	928-000-458	928-100-458
16.00	0.6299	16.00	140.0	128.00	155.00	48.00	204.00	8XD	928-000-696	928-100-696
16.10	0.6339	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-781	928-100-781
16.10	0.6339	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-879	928-100-879
16.10	0.6339	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-977	928-100-977
16.20	0.6378	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-782	928-100-782
16.20	0.6378	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-880	928-100-880
16.20	0.6378	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-978	928-100-978
16.30	0.6417	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-783	928-100-783
16.30	0.6417	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-881	928-100-881
16.30	0.6417	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-979	928-100-979
16.40	0.6457	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-784	928-100-784
16.40	0.6457	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-882	928-100-882
16.40	0.6457	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-980	928-100-980
16.50	0.6496	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-222	928-100-222
16.50	0.6496	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-460	928-100-460
16.50	0.6496	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-698	928-100-698

METRIC SIZE



DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
16.60	0.6535	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-785	928-100-785
16.60	0.6535	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-883	928-100-883
16.60	0.6535	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-981	928-100-981
16.70	0.6575	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-786	928-100-786
16.70	0.6575	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-884	928-100-884
16.70	0.6575	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-982	928-100-982
16.80	0.6614	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-787	928-100-787
16.80	0.6614	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-885	928-100-885
16.80	0.6614	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-983	928-100-983
16.90	0.6654	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-788	928-100-788
16.90	0.6654	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-886	928-100-886
16.90	0.6654	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-984	928-100-984
17.00	0.6693	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-224	928-100-224
17.00	0.6693	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-462	928-100-462
17.00	0.6693	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-700	928-100-700
17.10	0.6732	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-789	928-100-789
17.10	0.6732	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-887	928-100-887
17.10	0.6732	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-985	928-100-985
17.20	0.6772	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-790	928-100-790
17.20	0.6772	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-888	928-100-888
17.20	0.6772	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-986	928-100-986
17.30	0.6811	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-791	928-100-791
17.30	0.6811	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-889	928-100-889
17.30	0.6811	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-987	928-100-987
17.40	0.6850	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-792	928-100-792
17.40	0.6850	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-890	928-100-890
17.40	0.6850	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-988	928-100-988
17.50	0.6890	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-227	928-100-227
17.50	0.6890	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-465	928-100-465
17.50	0.6890	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-703	928-100-703
17.60	0.6929	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-793	928-100-793
17.60	0.6929	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-891	928-100-891
17.60	0.6929	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-989	928-100-989
17.70	0.6969	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-794	928-100-794
17.70	0.6969	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-892	928-100-892
17.70	0.6969	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-990	928-100-990
17.80	0.7008	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-795	928-100-795
17.80	0.7008	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-893	928-100-893
17.80	0.7008	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-991	928-100-991
17.90	0.7047	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-796	928-100-796
17.90	0.7047	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-894	928-100-894
17.90	0.7047	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-992	928-100-992
18.00	0.7087	18.00	140.0	51.00	73.00	48.00	123.00	3XD	928-000-229	928-100-229
18.00	0.7087	18.00	140.0	71.00	93.00	48.00	143.00	5XD	928-000-467	928-100-467
18.00	0.7087	18.00	140.0	144.00	170.00	48.00	223.00	8XD	928-000-705	928-100-705
18.10	0.7126	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-797	928-100-797
18.10	0.7126	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-895	928-100-895
18.10	0.7126	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-993	928-100-993
18.20	0.7165	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-798	928-100-798
18.20	0.7165	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-896	928-100-896
18.20	0.7165	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-994	928-100-994
18.30	0.7205	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-799	928-100-799
18.30	0.7205	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-897	928-100-897
18.30	0.7205	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-995	928-100-995

METRIC SIZE



DC [mm]	DC [in.]	DCONMS [mm]	A [°]	LU [mm]	LF [mm]	LS [mm]	L [mm]	L/DC RATIO	Product # COOLANT THRU	Product # NON-COOLANT THRU
18.40	0.7244	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-800	928-100-800
18.40	0.7244	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-898	928-100-898
18.40	0.7244	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-996	928-100-996
18.50	0.7283	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-231	928-100-231
18.50	0.7283	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-469	928-100-469
18.50	0.7283	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-707	928-100-707
18.60	0.7323	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-801	928-100-801
18.60	0.7323	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-899	928-100-899
18.60	0.7323	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-997	928-100-997
18.70	0.7362	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-802	928-100-802
18.70	0.7362	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-900	928-100-900
18.70	0.7362	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-998	928-100-998
18.80	0.7402	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-803	928-100-803
18.80	0.7402	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-901	928-100-901
18.80	0.7402	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-999	928-100-999
18.90	0.7441	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-804	928-100-804
18.90	0.7441	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-902	928-100-902
18.90	0.7441	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-000	928-101-000
19.00	0.7480	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-233	928-100-233
19.00	0.7480	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-471	928-100-471
19.00	0.7480	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-709	928-100-709
19.10	0.7520	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-805	928-100-805
19.10	0.7520	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-903	928-100-903
19.10	0.7520	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-001	928-101-001
19.20	0.7559	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-806	928-100-806
19.20	0.7559	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-904	928-100-904
19.20	0.7559	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-002	928-101-002
19.30	0.7598	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-807	928-100-807
19.30	0.7598	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-905	928-100-905
19.30	0.7598	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-003	928-101-003
19.40	0.7638	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-808	928-100-808
19.40	0.7638	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-906	928-100-906
19.40	0.7638	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-004	928-101-004
19.50	0.7677	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-236	928-100-236
19.50	0.7677	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-474	928-100-474
19.50	0.7677	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-712	928-100-712
19.60	0.7717	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-809	928-100-809
19.60	0.7717	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-907	928-100-907
19.60	0.7717	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-005	928-101-005
19.70	0.7756	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-810	928-100-810
19.70	0.7756	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-908	928-100-908
19.70	0.7756	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-006	928-101-006
19.80	0.7795	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-811	928-100-811
19.80	0.7795	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-909	928-100-909
19.80	0.7795	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-007	928-101-007
19.90	0.7835	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-812	928-100-812
19.90	0.7835	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-910	928-100-910
19.90	0.7835	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-001-008	928-101-008
20.00	0.7874	20.00	140.0	55.00	79.00	50.00	132.00	3XD	928-000-238	928-100-238
20.00	0.7874	20.00	140.0	77.00	101.00	50.00	154.00	5XD	928-000-476	928-100-476
20.00	0.7874	20.00	140.0	160.00	185.00	50.00	245.00	8XD	928-000-714	928-100-714

SOLID CARBIDE DRILL SPEEDS & FEEDS



ISO	MATERIAL	HARDNESS	Vc (SFM)*	DRILL DIAMETER (INCH)							
				≤ 1/16"	1/16" - 1/8"	1/8" - 1/4"	1/4" - 3/8"	3/8" - 1/2"	1/2" - 3/4"	3/4" - 1"	
Fz = IPR(INCH PER REVOLUTION)*											
P	CARBON STEELS 1018, 1040, 1080, 1090, 10L50, 1140, 1212, 12L15, 1525, 1536	≤ 275 BHN or ≤ 28 HRC	210-510	.0008- .0030	.0030- .0055	.0040 - .0085	.0050 - .012	.0070 - .015	.0090 - .0175	.0100 - .0200	
	ALLOY STEELS 4140, 4150, 4320, 5120, 5150, 8630, 86L20, 17-4 PH	≤ 375 BHN or ≤ 40 HRC	170-390	.0006- .0025	.0020- .0045	.0030- .0060	.0045 - .0080	.0060- .0120	.0070- .0145	.0080- .0175	
M	STAINLESS STEELS (FREE MACHINING) 303, 416, 420F, 430F, 440F	≤ 275 BHN or ≤ 28 HRC	95-165	.0005 - .0025	.0020- .0045	.0035- .0060	.0040- .0085	.0055 - .0125	.0070- .0150	.0080- .0170	
	STAINLESS STEELS (DIFFICULT) 304, 304L, 316, 316L	≤ 275 BHN or ≤ 28 HRC	80-140	.0004 - .0018	.0018- .0035	.0022 - .0045	.0033 - .0060	.0055 - .0090	.0060- .0140	.0070 - .0150	
K	GRAY IRONS Class 20, 30, 40, 50, 60, G3000, G3500	≤ 220 BHN or ≤ 19 HRC	190-475	.0008 - .0040	.0030 - .0060	.0045- .0080	.0060- .0135	.0070 - .0140	.0010- .0160	.0120- .0200	
	DUCTILE IRONS D&M series, 250, 300, 350, 400, 60-40-18, 65-45-12	"≤ 260 BHN or ≤ 26 HRC"	160-310	.0006 - .0030	.0028 - .0035	.0040- .0070	.0055- .010	.0070 - .0120	.0090- .0140	.0110- .0170	
N	NON-FERROUS Aluminum, Aluminum cast, Brass, Copper, Bronze, Non Metallic	"≤ 271 BHN or ≤ 28 HRC"	350-950	.0010 - .0040	.0030- .0060	.0040- .0070	.0060 - .0115	.0075 - .0135	.0090 - .0150	.0100 - .0210	
H	TOOL STEELS A2, D2, H13, L2, M2, P20, S7, T15, W2	"≤ 375 BHN or ≤ 55 HRC"	55-145	.0008- .0030	.0010- .0040	.0017 - .0055	.0030 - .0073	.0055 - .0095	.0060 - .0100	.0070 - .0115	
S	HR SUPER ALLOYS Inconel 718, Waspaloy, Hastelloy, Inconel 625, Stellite 31, Haynes 25, Rene 41	"≤ 275 BHN or ≤ 28 HRC"	95 -215	.0007 - .0020	.00012 - .0025	.0018- .0040	.0027- .0075	.0030 - .0075	.0050- .0090	.0060- .0110	
	TITANIUM 6AL-4V, ASTM 1, 2, 3, 6AL-2S	"≤ 275 BHN or ≤ 28 HRC"	70-160	.0009 - .0030	.0015 - .0035	.0020- .00550	.0045 - .0100	.0075 - .0120	.0080- .0150	.0095- .0160	

Recommendations

Productivity and tooling performance is not only influenced by grade and geometry, but also by clamping the tool securely and accurately as possible.

- It is recommended to use precision holders i.e. hydraulic, shrink fit
- It is recommended to use internal coolant – minimum recommended pressure 145 psi

*Speeds & feeds are starting recommendations only. Factors such as machine type, fixture, tooling rigidity, available horsepower, coolant delivery method and others will affect the performance significantly.

WHY CHOOSE OUR DRILLS

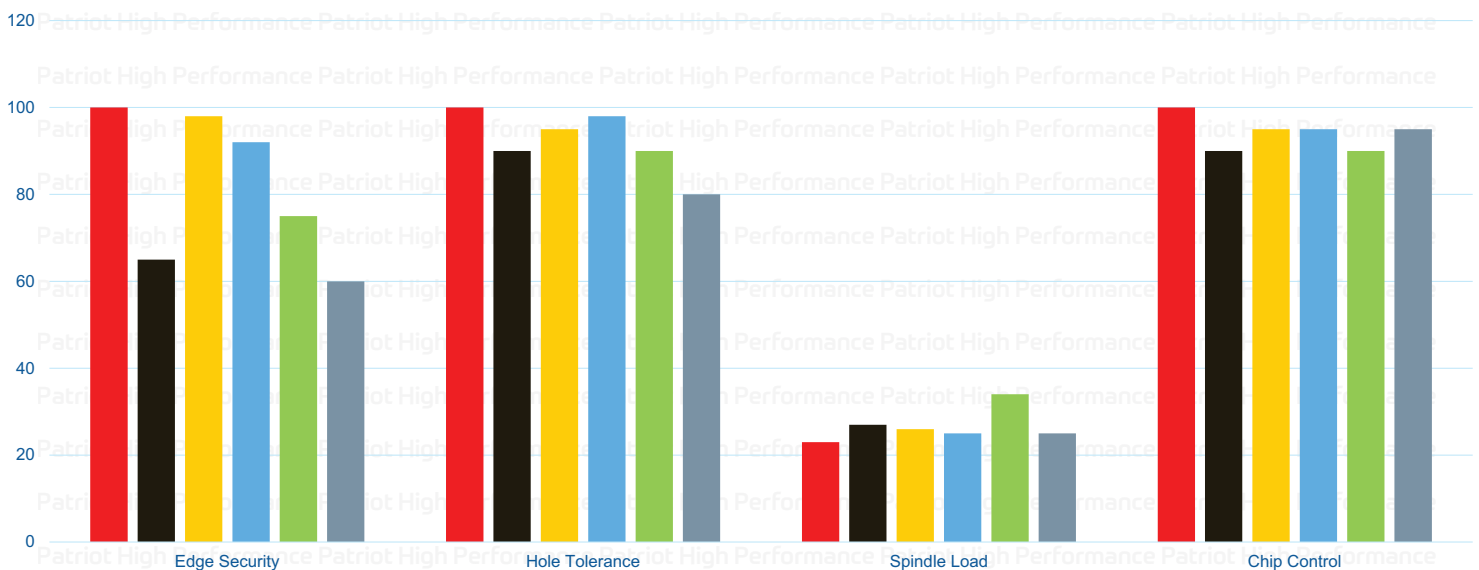


Over 11,000 holes produced in both 316 Stainless and 4140PHT

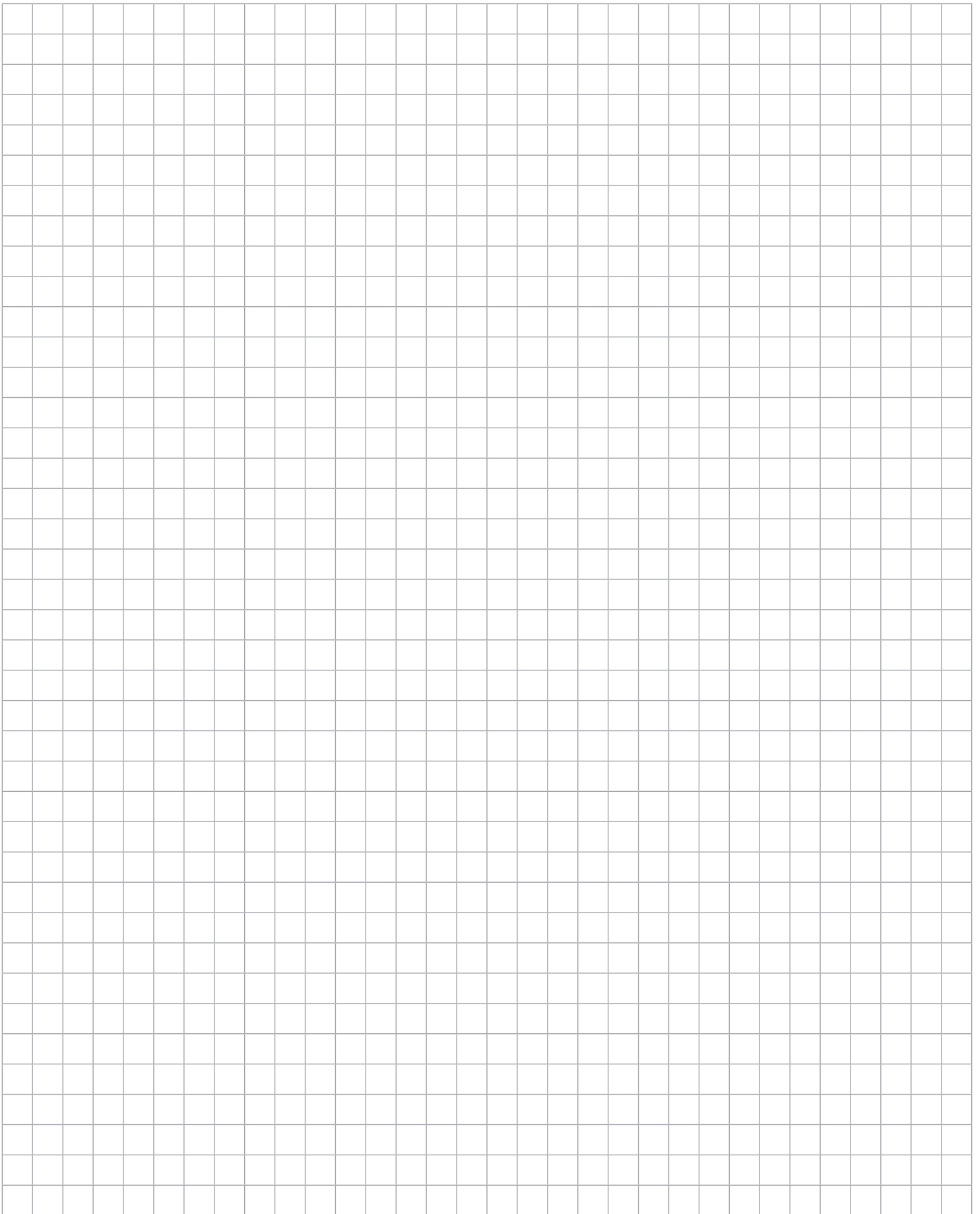
Material	4140 PHT 33Rc
Drill size	6mm Drill
Coolant	Through
RPM	3560
IPM	28.4

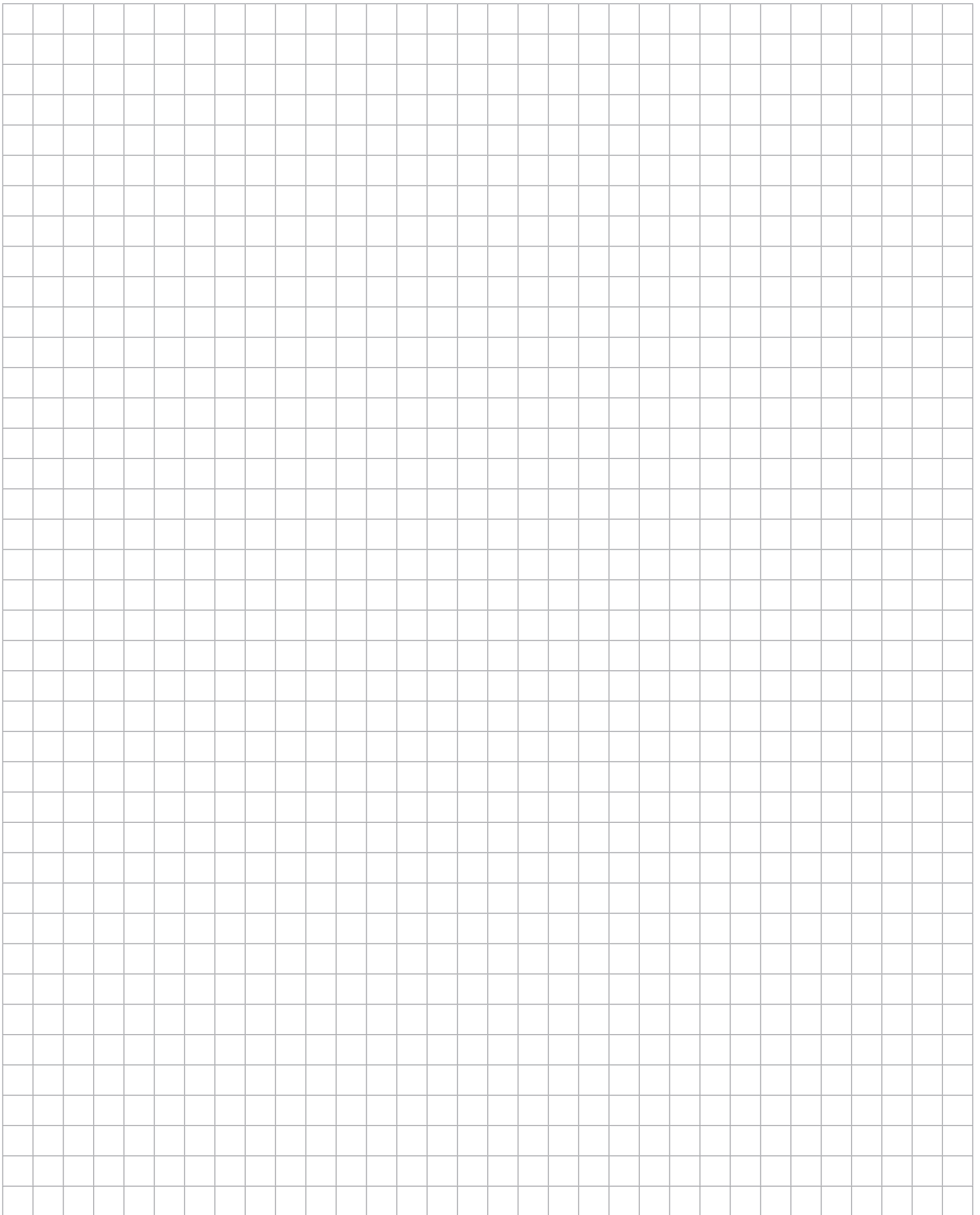
Here's How We Stand Up In Four Critical Factors

■ = PATRIOT HP
 ■ = Competitor A
 ■ = Competitor B
 ■ = Competitor C
 ■ = Competitor D
 ■ = Competitor E









YOUR COMPLETE TOOL MAKING AUTHORITY®

ARCH Cutting Tools is more than an American manufacturer of metal cutting tools. We are engineering the future.

We draw on over 100 years of collective engineering expertise and innovative materials to provide solutions for complex manufacturing processes, viewing every challenge as an opportunity to collaborate and design cutting-edge solutions that maximize the end-user environment.

Whether it's a standard product, complex custom, reconditioned tool, or a complete tooling package, our solutions enable end-users to run longer, cut faster, and machine with greater precision.

We are Your Complete Tool Making Authority®.



COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com

V. 1.2.4