

# ACHTTECK

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THE EXPERT OF DIFFICULT MACHINING



Solid Carbide Drill

## **CUTTING TOOL CATALOGUE**

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<b>Solid Carbide Drill</b>	<b>548</b>
Denomination System	550
Product Overview	550
D105-03A0...Product List	551
D105-05A0...Product List	555
D105-03A1...Product List	559
D105-05A1...Product List	563
D106-03A0...Product List	567
D106-05A0...Product List	571
D106-03A1...Product List	575
D106-05A1...Product List	579
D108-08A1...Product List	583
D151-03A1...Product List	586
D151-05A1...Product List	589
Cutting Parameters	592
Feed Reference Table	594
Thread Pilot Hole Diameters-Tapping	595
Thread Pilot Hole Diameters-Forming	596

# Hole Making Solid Carbide Drill

## Solid Carbide Drill Denomination System

<b>D</b>	<b>1</b>	<b>05</b>	<b>-</b>	<b>03</b>	<b>-</b>	<b>12700</b>	<b>A</b>	<b>1</b>
1	2	3	-	4	-	5	6	7

1-Tool Group	
D	Drilling

2-Generation	
	1

3-Tool Type	
00-09	General-purpose drills
10-19	Micro-diameter drills
20-29	High-performance drills
30-39	Steel-specific drills
40-49	Aluminum-specific drills
50-59	S.S.-specific drills
60-69	Hard-to-cut material drills
70-79	Hard material drills
80-99	Others

4-Drilling Depth	
03	~3xDc in accordance with DIN 6537K
05	~5xDc in accordance with DIN 6537L
08	~8xDc in accordance with Achteck standard

5-Cutting Diameter	
03000	3.0mm
12100	12.1mm

6-Shank Type	
A	DIN 6535 HA cylindrical shank

7-Coolant	
0	External coolant
1	Internal coolant

## Product Overview

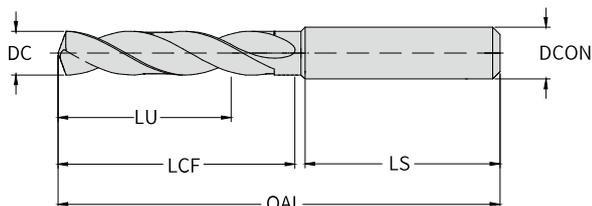
Machining application	External coolant			
	① Through hole		② Blind hole	
Drilling depth	3xDc	5xDc	3xDc	5xDc
Product line	ECO	ECO	PRO	PRO
Series	D105	D105	D106	D106
Illustration				
Standard	DIN 6537 K	DIN 6537 L	DIN 6537 K	DIN 6537 L
Dia. Range(mm)	3~20	3~20	3~20	3~20
Cutting edge	h7	h7	m7	m7
Page	P551	P555	P567	P571
P steel	●●	●●	●●	●●
M stainless steel				
K cast iron	●●	●●	●●	●●
N non-ferrous	●	●	●●	●●
S Super Alloy				
H hard materials	●	●		

Machining application	Internal coolant						
	① Through hole			② Blind hole			
Drilling depth	3xDc	5xDc	3xDc	5xDc	8xDc	3xDc	5xDc
Product line	ECO	ECO	PRO	PRO	PRO	PRO	PRO
Series	D105	D105	D106	D106	D108	D151	D151
Illustration							
Standard	DIN 6537 K	DIN 6537 L	DIN 6537 K	DIN 6537 L	Achteck	DIN 6537 K	DIN 6537 L
Dia. Range(mm)	3~20	3~20	3~16	3~16	3~16	3~16	3~16
Cutting edge	h7	h7	m7	m7	m7	m7	m7
Page	P559	P563	P575	P579	P583	P586	P589
P steel	●●	●●	●●	●●	●●	●	●
M stainless steel	●	●	●	●	●	●●	●●
K cast iron	●●	●●	●●	●●	●●	●	●
N non-ferrous	●●	●●	●●	●●	●●	●●	●●
S Super Alloy	●	●	●	●	●	●●	●●
H hard materials	●	●	●	●	●		

**Solid Carbide External Coolant Drill D105 3xDc**

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



**3×DC** **DIN 6537 K**   

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-03000A0	3.0	14	62	20	36	4	●
D105-03-03100A0	3.1	14	62	20	36	4	●
D105-03-03200A0	3.2	14	62	20	36	4	●
D105-03-03300A0	3.3	14	62	20	36	4	●
D105-03-03400A0	3.4	14	62	20	36	4	●
D105-03-03500A0	3.5	14	62	20	36	4	●
D105-03-03600A0	3.6	14	62	20	36	4	●
D105-03-03700A0	3.7	14	62	20	36	4	●
D105-03-03800A0	3.8	17	66	24	36	4	●
D105-03-03900A0	3.9	17	66	24	36	4	○
D105-03-04000A0	4.0	17	66	24	36	4	●
D105-03-04100A0	4.1	17	66	24	36	6	●
D105-03-04200A0	4.2	17	66	24	36	6	●
D105-03-04300A0	4.3	17	66	24	36	6	●
D105-03-04400A0	4.4	17	66	24	36	6	●
D105-03-04500A0	4.5	17	66	24	36	6	●
D105-03-04600A0	4.6	17	66	24	36	6	●
D105-03-04700A0	4.7	17	66	24	36	6	●
D105-03-04800A0	4.8	20	66	28	36	6	●
D105-03-04900A0	4.9	20	66	28	36	6	○
D105-03-05000A0	5.0	20	66	28	36	6	●
D105-03-05100A0	5.1	20	66	28	36	6	●
D105-03-05200A0	5.2	20	66	28	36	6	●
D105-03-05300A0	5.3	20	66	28	36	6	●
D105-03-05400A0	5.4	20	66	28	36	6	●
D105-03-05500A0	5.5	20	66	28	36	6	●
D105-03-05600A0	5.6	20	66	28	36	6	○
D105-03-05700A0	5.7	20	66	28	36	6	○
D105-03-05800A0	5.8	20	66	28	36	6	●
D105-03-05900A0	5.9	20	66	28	36	6	○
D105-03-06000A0	6.0	20	66	28	36	6	●
D105-03-06100A0	6.1	24	79	34	36	8	●
D105-03-06200A0	6.2	24	79	34	36	8	○
D105-03-06300A0	6.3	24	79	34	36	8	●
D105-03-06400A0	6.4	24	79	34	36	8	○
D105-03-06500A0	6.5	24	79	34	36	8	●
D105-03-06600A0	6.6	24	79	34	36	8	●
D105-03-06700A0	6.7	24	79	34	36	8	●
D105-03-06800A0	6.8	24	79	34	36	8	●
D105-03-06900A0	6.9	24	79	34	36	8	●
D105-03-07000A0	7.0	24	79	34	36	8	●
D105-03-07100A0	7.1	29	79	41	36	8	●
D105-03-07200A0	7.2	29	79	41	36	8	●
D105-03-07300A0	7.3	29	79	41	36	8	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

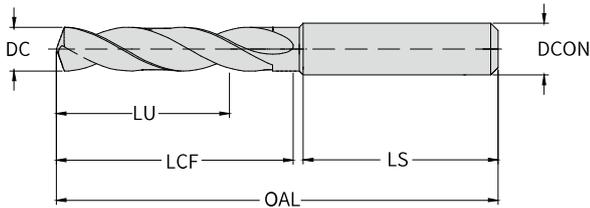
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D105 3xDc

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-07400A0	7.4	29	79	41	36	8	○
D105-03-07500A0	7.5	29	79	41	36	8	●
D105-03-07600A0	7.6	29	79	41	36	8	○
D105-03-07700A0	7.7	29	79	41	36	8	○
D105-03-07800A0	7.8	29	79	41	36	8	●
D105-03-07900A0	7.9	29	79	41	36	8	●
D105-03-08000A0	8.0	29	79	41	36	8	●
D105-03-08100A0	8.1	35	89	47	40	10	●
D105-03-08200A0	8.2	35	89	47	40	10	●
D105-03-08300A0	8.3	35	89	47	40	10	○
D105-03-08400A0	8.4	35	89	47	40	10	○
D105-03-08500A0	8.5	35	89	47	40	10	●
D105-03-08600A0	8.6	35	89	47	40	10	●
D105-03-08700A0	8.7	35	89	47	40	10	●
D105-03-08800A0	8.8	35	89	47	40	10	●
D105-03-08900A0	8.9	35	89	47	40	10	○
D105-03-09000A0	9.0	35	89	47	40	10	●
D105-03-09100A0	9.1	35	89	47	40	10	●
D105-03-09200A0	9.2	35	89	47	40	10	●
D105-03-09300A0	9.3	35	89	47	40	10	●
D105-03-09400A0	9.4	35	89	47	40	10	●
D105-03-09500A0	9.5	35	89	47	40	10	●
D105-03-09600A0	9.6	35	89	47	40	10	●
D105-03-09700A0	9.7	35	89	47	40	10	●
D105-03-09800A0	9.8	35	89	47	40	10	●
D105-03-09900A0	9.9	35	89	47	40	10	○
D105-03-10000A0	10.0	35	89	47	40	10	●
D105-03-10100A0	10.1	40	102	55	45	12	○
D105-03-10200A0	10.2	40	102	55	45	12	●
D105-03-10300A0	10.3	40	102	55	45	12	●
D105-03-10400A0	10.4	40	102	55	45	12	●
D105-03-10500A0	10.5	40	102	55	45	12	●
D105-03-10600A0	10.6	40	102	55	45	12	○
D105-03-10700A0	10.7	40	102	55	45	12	○
D105-03-10800A0	10.8	40	102	55	45	12	●
D105-03-10900A0	10.9	40	102	55	45	12	○
D105-03-11000A0	11.0	40	102	55	45	12	●
D105-03-11100A0	11.1	40	102	55	45	12	○
D105-03-11200A0	11.2	40	102	55	45	12	○
D105-03-11300A0	11.3	40	102	55	45	12	○
D105-03-11400A0	11.4	40	102	55	45	12	○
D105-03-11500A0	11.5	40	102	55	45	12	●
D105-03-11600A0	11.6	40	102	55	45	12	○
D105-03-11700A0	11.7	40	102	55	45	12	○

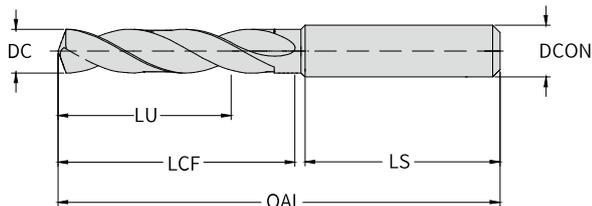
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D105 3xDc**

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



**3xDc** **DIN 6537 K**   

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-11800A0	11.8	40	102	55	45	12	○
D105-03-11900A0	11.9	40	102	55	45	12	○
D105-03-12000A0	12.0	40	102	55	45	12	●
D105-03-12100A0	12.1	43	107	60	45	14	○
D105-03-12200A0	12.2	43	107	60	45	14	○
D105-03-12300A0	12.3	43	107	60	45	14	○
D105-03-12400A0	12.4	43	107	60	45	14	○
D105-03-12500A0	12.5	43	107	60	45	14	○
D105-03-12600A0	12.6	43	107	60	45	14	●
D105-03-12700A0	12.7	43	107	60	45	14	●
D105-03-12800A0	12.8	43	107	60	45	14	●
D105-03-12900A0	12.9	43	107	60	45	14	○
D105-03-13000A0	13.0	43	107	60	45	14	●
D105-03-13100A0	13.1	43	107	60	45	14	○
D105-03-13200A0	13.2	43	107	60	45	14	●
D105-03-13300A0	13.3	43	107	60	45	14	●
D105-03-13400A0	13.4	43	107	60	45	14	○
D105-03-13500A0	13.5	43	107	60	45	14	●
D105-03-13600A0	13.6	43	107	60	45	14	○
D105-03-13700A0	13.7	43	107	60	45	14	○
D105-03-13800A0	13.8	43	107	60	45	14	○
D105-03-13900A0	13.9	43	107	60	45	14	○
D105-03-14000A0	14.0	43	107	60	45	14	●
D105-03-14100A0	14.1	45	115	65	48	16	○
D105-03-14200A0	14.2	45	115	65	48	16	●
D105-03-14300A0	14.3	45	115	65	48	16	○
D105-03-14400A0	14.4	45	115	65	48	16	○
D105-03-14500A0	14.5	45	115	65	48	16	●
D105-03-14600A0	14.6	45	115	65	48	16	○
D105-03-14700A0	14.7	45	115	65	48	16	●
D105-03-14800A0	14.8	45	115	65	48	16	○
D105-03-14900A0	14.9	45	115	65	48	16	○
D105-03-15000A0	15.0	45	115	65	48	16	●
D105-03-15100A0	15.1	45	115	65	48	16	○
D105-03-15200A0	15.2	45	115	65	48	16	○
D105-03-15300A0	15.3	45	115	65	48	16	○
D105-03-15400A0	15.4	45	115	65	48	16	○
D105-03-15500A0	15.5	45	115	65	48	16	●
D105-03-15600A0	15.6	45	115	65	48	16	○
D105-03-15700A0	15.7	45	115	65	48	16	○
D105-03-15800A0	15.8	45	115	65	48	16	○
D105-03-15900A0	15.9	45	115	65	48	16	○
D105-03-16000A0	16.0	45	115	65	48	16	●
D105-03-16100A0	16.1	51	123	73	48	18	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

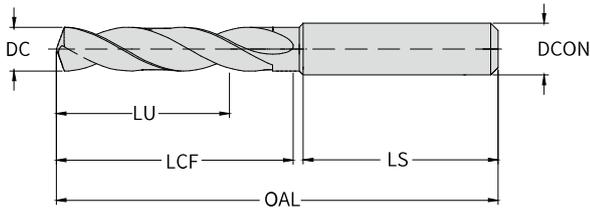
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D105 3xDc

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-16200A0	16.2	51	123	73	48	18	○
D105-03-16300A0	16.3	51	123	73	48	18	○
D105-03-16400A0	16.4	51	123	73	48	18	○
D105-03-16500A0	16.5	51	123	73	48	18	●
D105-03-16600A0	16.6	51	123	73	48	18	○
D105-03-16700A0	16.7	51	123	73	48	18	○
D105-03-16800A0	16.8	51	123	73	48	18	○
D105-03-16900A0	16.9	51	123	73	48	18	○
D105-03-17000A0	17.0	51	123	73	48	18	●
D105-03-17100A0	17.1	51	123	73	48	18	○
D105-03-17200A0	17.2	51	123	73	48	18	○
D105-03-17300A0	17.3	51	123	73	48	18	○
D105-03-17400A0	17.4	51	123	73	48	18	○
D105-03-17500A0	17.5	51	123	73	48	18	●
D105-03-17600A0	17.6	51	123	73	48	18	○
D105-03-17700A0	17.7	51	123	73	48	18	○
D105-03-17800A0	17.8	51	123	73	48	18	○
D105-03-17900A0	17.9	51	123	73	48	18	○
D105-03-18000A0	18.0	51	123	73	48	18	●
D105-03-18100A0	18.1	55	131	79	50	20	○
D105-03-18200A0	18.2	55	131	79	50	20	○
D105-03-18300A0	18.3	55	131	79	50	20	○
D105-03-18400A0	18.4	55	131	79	50	20	○
D105-03-18500A0	18.5	55	131	79	50	20	●
D105-03-18600A0	18.6	55	131	79	50	20	○
D105-03-18700A0	18.7	55	131	79	50	20	○
D105-03-18800A0	18.8	55	131	79	50	20	○
D105-03-18900A0	18.9	55	131	79	50	20	○
D105-03-19000A0	19.0	55	131	79	50	20	●
D105-03-19100A0	19.1	55	131	79	50	20	○
D105-03-19200A0	19.2	55	131	79	50	20	○
D105-03-19300A0	19.3	55	131	79	50	20	○
D105-03-19400A0	19.4	55	131	79	50	20	○
D105-03-19500A0	19.5	55	131	79	50	20	●
D105-03-19600A0	19.6	55	131	79	50	20	○
D105-03-19700A0	19.7	55	131	79	50	20	○
D105-03-19800A0	19.8	55	131	79	50	20	○
D105-03-19900A0	19.9	55	131	79	50	20	○
D105-03-20000A0	20.0	55	131	79	50	20	○

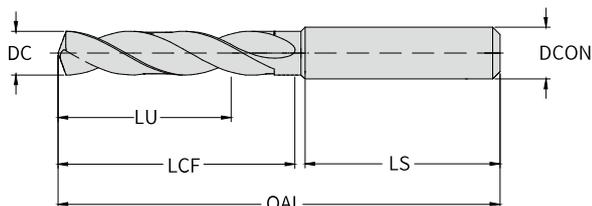
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D105 5xDc**

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



**5×DC** **DIN 6537 L**   

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-03000A0	3.0	23	66	28	36	4	•
D105-05-03100A0	3.1	23	66	28	36	4	•
D105-05-03200A0	3.2	23	66	28	36	4	•
D105-05-03300A0	3.3	23	66	28	36	4	•
D105-05-03400A0	3.4	23	66	28	36	4	•
D105-05-03500A0	3.5	23	66	28	36	4	•
D105-05-03600A0	3.6	23	66	28	36	4	•
D105-05-03700A0	3.7	23	66	28	36	4	•
D105-05-03800A0	3.8	29	74	36	36	4	•
D105-05-03900A0	3.9	29	74	36	36	4	•
D105-05-04000A0	4.0	29	74	36	36	4	•
D105-05-04100A0	4.1	29	74	36	36	6	○
D105-05-04200A0	4.2	29	74	36	36	6	•
D105-05-04300A0	4.3	29	74	36	36	6	•
D105-05-04400A0	4.4	29	74	36	36	6	○
D105-05-04500A0	4.5	29	74	36	36	6	•
D105-05-04600A0	4.6	29	74	36	36	6	•
D105-05-04700A0	4.7	29	74	36	36	6	•
D105-05-04800A0	4.8	35	82	44	36	6	•
D105-05-04900A0	4.9	35	82	44	36	6	•
D105-05-05000A0	5.0	35	82	44	36	6	•
D105-05-05100A0	5.1	35	82	44	36	6	•
D105-05-05200A0	5.2	35	82	44	36	6	•
D105-05-05300A0	5.3	35	82	44	36	6	•
D105-05-05400A0	5.4	35	82	44	36	6	•
D105-05-05500A0	5.5	35	82	44	36	6	•
D105-05-05600A0	5.6	35	82	44	36	6	•
D105-05-05700A0	5.7	35	82	44	36	6	•
D105-05-05800A0	5.8	35	82	44	36	6	•
D105-05-05900A0	5.9	35	82	44	36	6	•
D105-05-06000A0	6.0	35	82	44	36	6	•
D105-05-06100A0	6.1	43	91	53	36	8	•
D105-05-06200A0	6.2	43	91	53	36	8	•
D105-05-06300A0	6.3	43	91	53	36	8	•
D105-05-06400A0	6.4	43	91	53	36	8	•
D105-05-06500A0	6.5	43	91	53	36	8	•
D105-05-06600A0	6.6	43	91	53	36	8	•
D105-05-06700A0	6.7	43	91	53	36	8	•
D105-05-06800A0	6.8	43	91	53	36	8	•
D105-05-06900A0	6.9	43	91	53	36	8	•
D105-05-07000A0	7.0	43	91	53	36	8	•
D105-05-07100A0	7.1	43	91	53	36	8	○
D105-05-07200A0	7.2	43	91	53	36	8	○
D105-05-07300A0	7.3	43	91	53	36	8	○

Special product can be ordered

• : Standard stock ○ : Made-to-Order

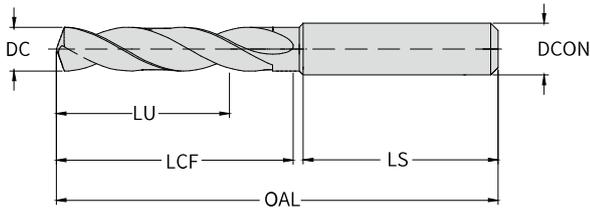
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D105 5xDc

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-07400A0	7.4	43	91	53	36	8	●
D105-05-07500A0	7.5	43	91	53	36	8	●
D105-05-07600A0	7.6	43	91	53	36	8	○
D105-05-07700A0	7.7	43	91	53	36	8	○
D105-05-07800A0	7.8	43	91	53	36	8	●
D105-05-07900A0	7.9	43	91	53	36	8	○
D105-05-08000A0	8.0	43	91	53	36	8	●
D105-05-08100A0	8.1	49	103	61	40	10	●
D105-05-08200A0	8.2	49	103	61	40	10	●
D105-05-08300A0	8.3	49	103	61	40	10	●
D105-05-08400A0	8.4	49	103	61	40	10	●
D105-05-08500A0	8.5	49	103	61	40	10	●
D105-05-08600A0	8.6	49	103	61	40	10	●
D105-05-08700A0	8.7	49	103	61	40	10	●
D105-05-08800A0	8.8	49	103	61	40	10	●
D105-05-08900A0	8.9	49	103	61	40	10	●
D105-05-09000A0	9.0	49	103	61	40	10	●
D105-05-09100A0	9.1	49	103	61	40	10	●
D105-05-09200A0	9.2	49	103	61	40	10	●
D105-05-09300A0	9.3	49	103	61	40	10	○
D105-05-09400A0	9.4	49	103	61	40	10	●
D105-05-09500A0	9.5	49	103	61	40	10	●
D105-05-09600A0	9.6	49	103	61	40	10	○
D105-05-09700A0	9.7	49	103	61	40	10	○
D105-05-09800A0	9.8	49	103	61	40	10	●
D105-05-09900A0	9.9	49	103	61	40	10	○
D105-05-10000A0	10.0	49	103	61	40	10	●
D105-05-10100A0	10.1	56	118	71	45	12	○
D105-05-10200A0	10.2	56	118	71	45	12	●
D105-05-10300A0	10.3	56	118	71	45	12	●
D105-05-10400A0	10.4	56	118	71	45	12	●
D105-05-10500A0	10.5	56	118	71	45	12	●
D105-05-10600A0	10.6	56	118	71	45	12	○
D105-05-10700A0	10.7	56	118	71	45	12	○
D105-05-10800A0	10.8	56	118	71	45	12	●
D105-05-10900A0	10.9	56	118	71	45	12	○
D105-05-11000A0	11.0	56	118	71	45	12	●
D105-05-11100A0	11.1	56	118	71	45	12	○
D105-05-11200A0	11.2	56	118	71	45	12	●
D105-05-11300A0	11.3	56	118	71	45	12	○
D105-05-11400A0	11.4	56	118	71	45	12	○
D105-05-11500A0	11.5	56	118	71	45	12	●
D105-05-11600A0	11.6	56	118	71	45	12	○
D105-05-11700A0	11.7	56	118	71	45	12	○

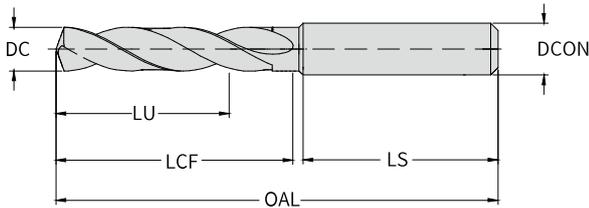
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D105 5xDC**

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



**5xDC** **DIN 6537 L**   

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-11800A0	11.8	56	118	71	45	12	●
D105-05-11900A0	11.9	56	118	71	45	12	○
D105-05-12000A0	12.0	56	118	71	45	12	●
D105-05-12100A0	12.1	60	124	77	45	14	○
D105-05-12200A0	12.2	60	124	77	45	14	●
D105-05-12300A0	12.3	60	124	77	45	14	○
D105-05-12400A0	12.4	60	124	77	45	14	○
D105-05-12500A0	12.5	60	124	77	45	14	●
D105-05-12600A0	12.6	60	124	77	45	14	○
D105-05-12700A0	12.7	60	124	77	45	14	○
D105-05-12800A0	12.8	60	124	77	45	14	○
D105-05-12900A0	12.9	60	124	77	45	14	○
D105-05-13000A0	13.0	60	124	77	45	14	●
D105-05-13100A0	13.1	60	124	77	45	14	○
D105-05-13200A0	13.2	60	124	77	45	14	○
D105-05-13300A0	13.3	60	124	77	45	14	○
D105-05-13400A0	13.4	60	124	77	45	14	○
D105-05-13500A0	13.5	60	124	77	45	14	●
D105-05-13600A0	13.6	60	124	77	45	14	○
D105-05-13700A0	13.7	60	124	77	45	14	○
D105-05-13800A0	13.8	60	124	77	45	14	○
D105-05-13900A0	13.9	60	124	77	45	14	○
D105-05-14000A0	14.0	60	124	77	45	14	●
D105-05-14100A0	14.1	63	133	83	48	16	○
D105-05-14200A0	14.2	63	133	83	48	16	○
D105-05-14300A0	14.3	63	133	83	48	16	○
D105-05-14400A0	14.4	63	133	83	48	16	○
D105-05-14500A0	14.5	63	133	83	48	16	●
D105-05-14600A0	14.6	63	133	83	48	16	○
D105-05-14700A0	14.7	63	133	83	48	16	○
D105-05-14800A0	14.8	63	133	83	48	16	○
D105-05-14900A0	14.9	63	133	83	48	16	○
D105-05-15000A0	15.0	63	133	83	48	16	●
D105-05-15100A0	15.1	63	133	83	48	16	○
D105-05-15200A0	15.2	63	133	83	48	16	○
D105-05-15300A0	15.3	63	133	83	48	16	○
D105-05-15400A0	15.4	63	133	83	48	16	○
D105-05-15500A0	15.5	63	133	83	48	16	●
D105-05-15600A0	15.6	63	133	83	48	16	○
D105-05-15700A0	15.7	63	133	83	48	16	○
D105-05-15800A0	15.8	63	133	83	48	16	○
D105-05-15900A0	15.9	63	133	83	48	16	○
D105-05-16000A0	16.0	63	133	83	48	16	●
D105-05-16100A0	16.1	71	143	93	48	18	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

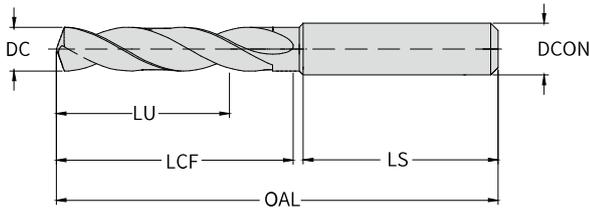
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D105 5xDc

P	M	K	N	S	H
••		••	•		•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-16200A0	16.2	71	143	93	48	18	○
D105-05-16300A0	16.3	71	143	93	48	18	○
D105-05-16400A0	16.4	71	143	93	48	18	○
D105-05-16500A0	16.5	71	143	93	48	18	●
D105-05-16600A0	16.6	71	143	93	48	18	○
D105-05-16700A0	16.7	71	143	93	48	18	○
D105-05-16800A0	16.8	71	143	93	48	18	○
D105-05-16900A0	16.9	71	143	93	48	18	○
D105-05-17000A0	17.0	71	143	93	48	18	●
D105-05-17100A0	17.1	71	143	93	48	18	○
D105-05-17200A0	17.2	71	143	93	48	18	○
D105-05-17300A0	17.3	71	143	93	48	18	○
D105-05-17400A0	17.4	71	143	93	48	18	○
D105-05-17500A0	17.5	71	143	93	48	18	●
D105-05-17600A0	17.6	71	143	93	48	18	○
D105-05-17700A0	17.7	71	143	93	48	18	○
D105-05-17800A0	17.8	71	143	93	48	18	○
D105-05-17900A0	17.9	71	143	93	48	18	○
D105-05-18000A0	18.0	71	143	93	48	18	●
D105-05-18100A0	18.1	77	153	101	50	20	○
D105-05-18200A0	18.2	77	153	101	50	20	○
D105-05-18300A0	18.3	77	153	101	50	20	○
D105-05-18400A0	18.4	77	153	101	50	20	○
D105-05-18500A0	18.5	77	153	101	50	20	●
D105-05-18600A0	18.6	77	153	101	50	20	○
D105-05-18700A0	18.7	77	153	101	50	20	○
D105-05-18800A0	18.8	77	153	101	50	20	○
D105-05-18900A0	18.9	77	153	101	50	20	○
D105-05-19000A0	19.0	77	153	101	50	20	●
D105-05-19100A0	19.1	77	153	101	50	20	○
D105-05-19200A0	19.2	77	153	101	50	20	○
D105-05-19300A0	19.3	77	153	101	50	20	○
D105-05-19400A0	19.4	77	153	101	50	20	○
D105-05-19500A0	19.5	77	153	101	50	20	●
D105-05-19600A0	19.6	77	153	101	50	20	○
D105-05-19700A0	19.7	77	153	101	50	20	○
D105-05-19800A0	19.8	77	153	101	50	20	○
D105-05-19900A0	19.9	77	153	101	50	20	○
D105-05-20000A0	20.0	77	153	101	50	20	○

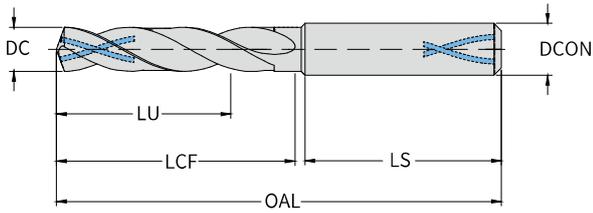
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D105 3xDc**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



**3xDc** **DIN 6537 K** **h7** **140°**

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-03000A1	3.0	14	62	20	36	4	•
D105-03-03100A1	3.1	14	62	20	36	4	•
D105-03-03200A1	3.2	14	62	20	36	4	•
D105-03-03300A1	3.3	14	62	20	36	4	•
D105-03-03400A1	3.4	14	62	20	36	4	•
D105-03-03500A1	3.5	14	62	20	36	4	•
D105-03-03600A1	3.6	14	62	20	36	4	•
D105-03-03700A1	3.7	14	62	20	36	4	•
D105-03-03800A1	3.8	17	66	24	36	4	•
D105-03-03900A1	3.9	17	66	24	36	4	○
D105-03-04000A1	4.0	17	66	24	36	4	•
D105-03-04100A1	4.1	17	66	24	36	6	•
D105-03-04200A1	4.2	17	66	24	36	6	•
D105-03-04300A1	4.3	17	66	24	36	6	•
D105-03-04400A1	4.4	17	66	24	36	6	•
D105-03-04500A1	4.5	17	66	24	36	6	•
D105-03-04600A1	4.6	17	66	24	36	6	•
D105-03-04700A1	4.7	17	66	24	36	6	•
D105-03-04800A1	4.8	20	66	28	36	6	•
D105-03-04900A1	4.9	20	66	28	36	6	○
D105-03-05000A1	5.0	20	66	28	36	6	•
D105-03-05100A1	5.1	20	66	28	36	6	•
D105-03-05200A1	5.2	20	66	28	36	6	•
D105-03-05300A1	5.3	20	66	28	36	6	•
D105-03-05400A1	5.4	20	66	28	36	6	•
D105-03-05500A1	5.5	20	66	28	36	6	•
D105-03-05600A1	5.6	20	66	28	36	6	○
D105-03-05700A1	5.7	20	66	28	36	6	○
D105-03-05800A1	5.8	20	66	28	36	6	•
D105-03-05900A1	5.9	20	66	28	36	6	○
D105-03-06000A1	6.0	20	66	28	36	6	•
D105-03-06100A1	6.1	24	79	34	36	8	•
D105-03-06200A1	6.2	24	79	34	36	8	○
D105-03-06300A1	6.3	24	79	34	36	8	•
D105-03-06400A1	6.4	24	79	34	36	8	○
D105-03-06500A1	6.5	24	79	34	36	8	•
D105-03-06600A1	6.6	24	79	34	36	8	•
D105-03-06700A1	6.7	24	79	34	36	8	•
D105-03-06800A1	6.8	24	79	34	36	8	•
D105-03-06900A1	6.9	24	79	34	36	8	•
D105-03-07000A1	7.0	24	79	34	36	8	•
D105-03-07100A1	7.1	29	79	41	36	8	•
D105-03-07200A1	7.2	29	79	41	36	8	•
D105-03-07300A1	7.3	29	79	41	36	8	○

Special product can be ordered

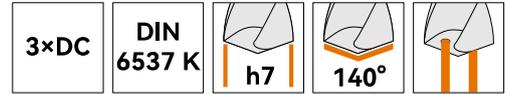
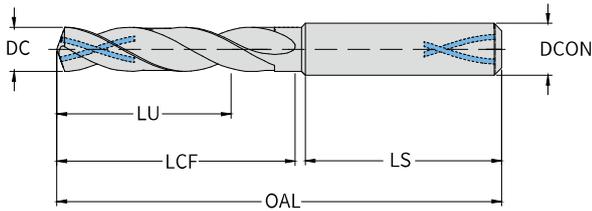
• : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D105 3xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-07400A1	7.4	29	79	41	36	8	○
D105-03-07500A1	7.5	29	79	41	36	8	●
D105-03-07600A1	7.6	29	79	41	36	8	○
D105-03-07700A1	7.7	29	79	41	36	8	○
D105-03-07800A1	7.8	29	79	41	36	8	●
D105-03-07900A1	7.9	29	79	41	36	8	●
D105-03-08000A1	8.0	29	79	41	36	8	●
D105-03-08100A1	8.1	35	89	47	40	10	●
D105-03-08200A1	8.2	35	89	47	40	10	●
D105-03-08300A1	8.3	35	89	47	40	10	○
D105-03-08400A1	8.4	35	89	47	40	10	○
D105-03-08500A1	8.5	35	89	47	40	10	●
D105-03-08600A1	8.6	35	89	47	40	10	●
D105-03-08700A1	8.7	35	89	47	40	10	●
D105-03-08800A1	8.8	35	89	47	40	10	●
D105-03-08900A1	8.9	35	89	47	40	10	○
D105-03-09000A1	9.0	35	89	47	40	10	●
D105-03-09100A1	9.1	35	89	47	40	10	●
D105-03-09200A1	9.2	35	89	47	40	10	●
D105-03-09300A1	9.3	35	89	47	40	10	●
D105-03-09400A1	9.4	35	89	47	40	10	●
D105-03-09500A1	9.5	35	89	47	40	10	●
D105-03-09600A1	9.6	35	89	47	40	10	●
D105-03-09700A1	9.7	35	89	47	40	10	●
D105-03-09800A1	9.8	35	89	47	40	10	●
D105-03-09900A1	9.9	35	89	47	40	10	○
D105-03-10000A1	10.0	35	89	47	40	10	●
D105-03-10100A1	10.1	40	102	55	45	12	○
D105-03-10200A1	10.2	40	102	55	45	12	●
D105-03-10300A1	10.3	40	102	55	45	12	●
D105-03-10400A1	10.4	40	102	55	45	12	●
D105-03-10500A1	10.5	40	102	55	45	12	●
D105-03-10600A1	10.6	40	102	55	45	12	○
D105-03-10700A1	10.7	40	102	55	45	12	○
D105-03-10800A1	10.8	40	102	55	45	12	●
D105-03-10900A1	10.9	40	102	55	45	12	○
D105-03-11000A1	11.0	40	102	55	45	12	●
D105-03-11100A1	11.1	40	102	55	45	12	○
D105-03-11200A1	11.2	40	102	55	45	12	○
D105-03-11300A1	11.3	40	102	55	45	12	○
D105-03-11400A1	11.4	40	102	55	45	12	○
D105-03-11500A1	11.5	40	102	55	45	12	●
D105-03-11600A1	11.6	40	102	55	45	12	○
D105-03-11700A1	11.7	40	102	55	45	12	○

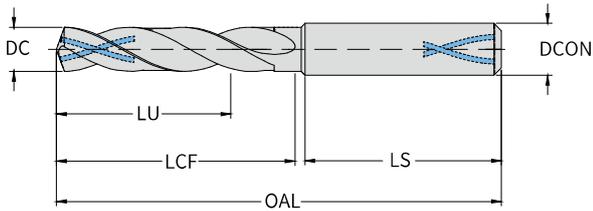
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D105 3xDc**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



**3×DC** **DIN 6537 K** **h7** **140°**

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-11800A1	11.8	40	102	55	45	12	○
D105-03-11900A1	11.9	40	102	55	45	12	○
D105-03-12000A1	12.0	40	102	55	45	12	●
D105-03-12100A1	12.1	43	107	60	45	14	○
D105-03-12200A1	12.2	43	107	60	45	14	○
D105-03-12300A1	12.3	43	107	60	45	14	○
D105-03-12400A1	12.4	43	107	60	45	14	○
D105-03-12500A1	12.5	43	107	60	45	14	○
D105-03-12600A1	12.6	43	107	60	45	14	●
D105-03-12700A1	12.7	43	107	60	45	14	●
D105-03-12800A1	12.8	43	107	60	45	14	●
D105-03-12900A1	12.9	43	107	60	45	14	○
D105-03-13000A1	13.0	43	107	60	45	14	●
D105-03-13100A1	13.1	43	107	60	45	14	○
D105-03-13200A1	13.2	43	107	60	45	14	●
D105-03-13300A1	13.3	43	107	60	45	14	●
D105-03-13400A1	13.4	43	107	60	45	14	○
D105-03-13500A1	13.5	43	107	60	45	14	●
D105-03-13600A1	13.6	43	107	60	45	14	○
D105-03-13700A1	13.7	43	107	60	45	14	○
D105-03-13800A1	13.8	43	107	60	45	14	○
D105-03-13900A1	13.9	43	107	60	45	14	○
D105-03-14000A1	14.0	43	107	60	45	14	●
D105-03-14100A1	14.1	45	115	65	48	16	○
D105-03-14200A1	14.2	45	115	65	48	16	●
D105-03-14300A1	14.3	45	115	65	48	16	○
D105-03-14400A1	14.4	45	115	65	48	16	○
D105-03-14500A1	14.5	45	115	65	48	16	●
D105-03-14600A1	14.6	45	115	65	48	16	○
D105-03-14700A1	14.7	45	115	65	48	16	●
D105-03-14800A1	14.8	45	115	65	48	16	○
D105-03-14900A1	14.9	45	115	65	48	16	○
D105-03-15000A1	15.0	45	115	65	48	16	●
D105-03-15100A1	15.1	45	115	65	48	16	○
D105-03-15200A1	15.2	45	115	65	48	16	○
D105-03-15300A1	15.3	45	115	65	48	16	○
D105-03-15400A1	15.4	45	115	65	48	16	○
D105-03-15500A1	15.5	45	115	65	48	16	●
D105-03-15600A1	15.6	45	115	65	48	16	○
D105-03-15700A1	15.7	45	115	65	48	16	○
D105-03-15800A1	15.8	45	115	65	48	16	○
D105-03-15900A1	15.9	45	115	65	48	16	○
D105-03-16000A1	16.0	45	115	65	48	16	●
D105-03-16100A1	16.1	51	123	73	48	18	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

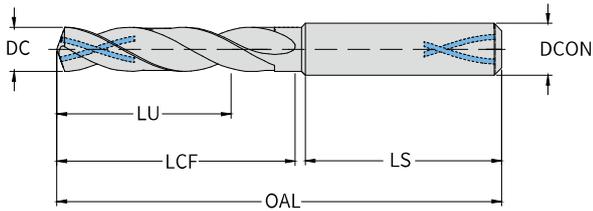
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D105 3xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-03-16200A1	16.2	51	123	73	48	18	○
D105-03-16300A1	16.3	51	123	73	48	18	○
D105-03-16400A1	16.4	51	123	73	48	18	○
D105-03-16500A1	16.5	51	123	73	48	18	●
D105-03-16600A1	16.6	51	123	73	48	18	○
D105-03-16700A1	16.7	51	123	73	48	18	○
D105-03-16800A1	16.8	51	123	73	48	18	○
D105-03-16900A1	16.9	51	123	73	48	18	○
D105-03-17000A1	17.0	51	123	73	48	18	●
D105-03-17100A1	17.1	51	123	73	48	18	○
D105-03-17200A1	17.2	51	123	73	48	18	○
D105-03-17300A1	17.3	51	123	73	48	18	○
D105-03-17400A1	17.4	51	123	73	48	18	○
D105-03-17500A1	17.5	51	123	73	48	18	●
D105-03-17600A1	17.6	51	123	73	48	18	○
D105-03-17700A1	17.7	51	123	73	48	18	○
D105-03-17800A1	17.8	51	123	73	48	18	○
D105-03-17900A1	17.9	51	123	73	48	18	○
D105-03-18000A1	18.0	51	123	73	48	18	●
D105-03-18100A1	18.1	55	131	79	50	20	○
D105-03-18200A1	18.2	55	131	79	50	20	○
D105-03-18300A1	18.3	55	131	79	50	20	○
D105-03-18400A1	18.4	55	131	79	50	20	○
D105-03-18500A1	18.5	55	131	79	50	20	●
D105-03-18600A1	18.6	55	131	79	50	20	○
D105-03-18700A1	18.7	55	131	79	50	20	○
D105-03-18800A1	18.8	55	131	79	50	20	○
D105-03-18900A1	18.9	55	131	79	50	20	○
D105-03-19000A1	19.0	55	131	79	50	20	●
D105-03-19100A1	19.1	55	131	79	50	20	○
D105-03-19200A1	19.2	55	131	79	50	20	○
D105-03-19300A1	19.3	55	131	79	50	20	○
D105-03-19400A1	19.4	55	131	79	50	20	○
D105-03-19500A1	19.5	55	131	79	50	20	●
D105-03-19600A1	19.6	55	131	79	50	20	○
D105-03-19700A1	19.7	55	131	79	50	20	○
D105-03-19800A1	19.8	55	131	79	50	20	○
D105-03-19900A1	19.9	55	131	79	50	20	○
D105-03-20000A1	20.0	55	131	79	50	20	○

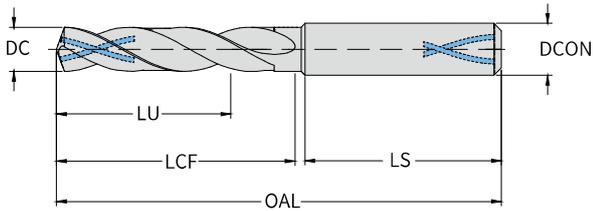
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D105 5xDC**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



**5xDC** **DIN 6537 L** **h7** **140°**

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-03000A1	3.0	23	66	28	36	4	•
D105-05-03100A1	3.1	23	66	28	36	4	•
D105-05-03200A1	3.2	23	66	28	36	4	•
D105-05-03300A1	3.3	23	66	28	36	4	•
D105-05-03400A1	3.4	23	66	28	36	4	•
D105-05-03500A1	3.5	23	66	28	36	4	•
D105-05-03600A1	3.6	23	66	28	36	4	•
D105-05-03700A1	3.7	23	66	28	36	4	•
D105-05-03800A1	3.8	29	74	36	36	4	•
D105-05-03900A1	3.9	29	74	36	36	4	•
D105-05-04000A1	4.0	29	74	36	36	4	•
D105-05-04100A1	4.1	29	74	36	36	6	○
D105-05-04200A1	4.2	29	74	36	36	6	•
D105-05-04300A1	4.3	29	74	36	36	6	•
D105-05-04400A1	4.4	29	74	36	36	6	○
D105-05-04500A1	4.5	29	74	36	36	6	•
D105-05-04600A1	4.6	29	74	36	36	6	•
D105-05-04700A1	4.7	29	74	36	36	6	•
D105-05-04800A1	4.8	35	82	44	36	6	•
D105-05-04900A1	4.9	35	82	44	36	6	•
D105-05-05000A1	5.0	35	82	44	36	6	•
D105-05-05100A1	5.1	35	82	44	36	6	•
D105-05-05200A1	5.2	35	82	44	36	6	•
D105-05-05300A1	5.3	35	82	44	36	6	•
D105-05-05400A1	5.4	35	82	44	36	6	•
D105-05-05500A1	5.5	35	82	44	36	6	•
D105-05-05600A1	5.6	35	82	44	36	6	•
D105-05-05700A1	5.7	35	82	44	36	6	•
D105-05-05800A1	5.8	35	82	44	36	6	•
D105-05-05900A1	5.9	35	82	44	36	6	•
D105-05-06000A1	6.0	35	82	44	36	6	•
D105-05-06100A1	6.1	43	91	53	36	8	•
D105-05-06200A1	6.2	43	91	53	36	8	•
D105-05-06300A1	6.3	43	91	53	36	8	•
D105-05-06400A1	6.4	43	91	53	36	8	•
D105-05-06500A1	6.5	43	91	53	36	8	•
D105-05-06600A1	6.6	43	91	53	36	8	•
D105-05-06700A1	6.7	43	91	53	36	8	•
D105-05-06800A1	6.8	43	91	53	36	8	•
D105-05-06900A1	6.9	43	91	53	36	8	•
D105-05-07000A1	7.0	43	91	53	36	8	•
D105-05-07100A1	7.1	43	91	53	36	8	○
D105-05-07200A1	7.2	43	91	53	36	8	○
D105-05-07300A1	7.3	43	91	53	36	8	○

Special product can be ordered

• : Standard stock ○ : Made-to-Order

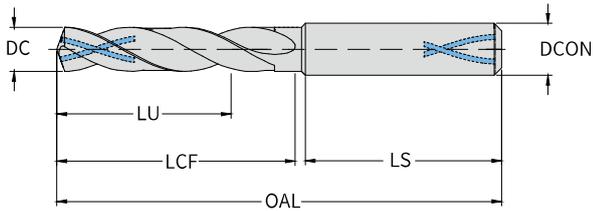
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D105 5xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-07400A1	7.4	43	91	53	36	8	•
D105-05-07500A1	7.5	43	91	53	36	8	•
D105-05-07600A1	7.6	43	91	53	36	8	○
D105-05-07700A1	7.7	43	91	53	36	8	○
D105-05-07800A1	7.8	43	91	53	36	8	•
D105-05-07900A1	7.9	43	91	53	36	8	○
D105-05-08000A1	8.0	43	91	53	36	8	•
D105-05-08100A1	8.1	49	103	61	40	10	•
D105-05-08200A1	8.2	49	103	61	40	10	•
D105-05-08300A1	8.3	49	103	61	40	10	•
D105-05-08400A1	8.4	49	103	61	40	10	•
D105-05-08500A1	8.5	49	103	61	40	10	•
D105-05-08600A1	8.6	49	103	61	40	10	•
D105-05-08700A1	8.7	49	103	61	40	10	•
D105-05-08800A1	8.8	49	103	61	40	10	•
D105-05-08900A1	8.9	49	103	61	40	10	•
D105-05-09000A1	9.0	49	103	61	40	10	•
D105-05-09100A1	9.1	49	103	61	40	10	•
D105-05-09200A1	9.2	49	103	61	40	10	•
D105-05-09300A1	9.3	49	103	61	40	10	○
D105-05-09400A1	9.4	49	103	61	40	10	•
D105-05-09500A1	9.5	49	103	61	40	10	•
D105-05-09600A1	9.6	49	103	61	40	10	○
D105-05-09700A1	9.7	49	103	61	40	10	○
D105-05-09800A1	9.8	49	103	61	40	10	•
D105-05-09900A1	9.9	49	103	61	40	10	○
D105-05-10000A1	10.0	49	103	61	40	10	•
D105-05-10100A1	10.1	56	118	71	45	12	○
D105-05-10200A1	10.2	56	118	71	45	12	•
D105-05-10300A1	10.3	56	118	71	45	12	•
D105-05-10400A1	10.4	56	118	71	45	12	•
D105-05-10500A1	10.5	56	118	71	45	12	•
D105-05-10600A1	10.6	56	118	71	45	12	○
D105-05-10700A1	10.7	56	118	71	45	12	○
D105-05-10800A1	10.8	56	118	71	45	12	•
D105-05-10900A1	10.9	56	118	71	45	12	○
D105-05-11000A1	11.0	56	118	71	45	12	•
D105-05-11100A1	11.1	56	118	71	45	12	○
D105-05-11200A1	11.2	56	118	71	45	12	•
D105-05-11300A1	11.3	56	118	71	45	12	○
D105-05-11400A1	11.4	56	118	71	45	12	○
D105-05-11500A1	11.5	56	118	71	45	12	•
D105-05-11600A1	11.6	56	118	71	45	12	○
D105-05-11700A1	11.7	56	118	71	45	12	○

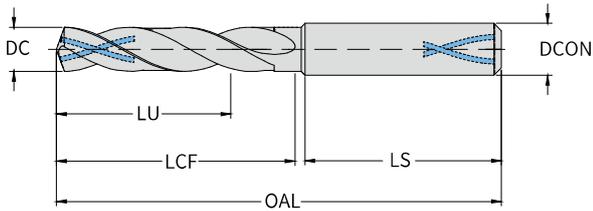
Special product can be ordered

• : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D105 5xDC**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



**5xDC**

**DIN 6537 L**

h7

140°

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-11800A1	11.8	56	118	71	45	12	●
D105-05-11900A1	11.9	56	118	71	45	12	○
D105-05-12000A1	12.0	56	118	71	45	12	●
D105-05-12100A1	12.1	60	124	77	45	14	○
D105-05-12200A1	12.2	60	124	77	45	14	●
D105-05-12300A1	12.3	60	124	77	45	14	○
D105-05-12400A1	12.4	60	124	77	45	14	○
D105-05-12500A1	12.5	60	124	77	45	14	●
D105-05-12600A1	12.6	60	124	77	45	14	○
D105-05-12700A1	12.7	60	124	77	45	14	○
D105-05-12800A1	12.8	60	124	77	45	14	○
D105-05-12900A1	12.9	60	124	77	45	14	○
D105-05-13000A1	13.0	60	124	77	45	14	●
D105-05-13100A1	13.1	60	124	77	45	14	○
D105-05-13200A1	13.2	60	124	77	45	14	○
D105-05-13300A1	13.3	60	124	77	45	14	○
D105-05-13400A1	13.4	60	124	77	45	14	○
D105-05-13500A1	13.5	60	124	77	45	14	●
D105-05-13600A1	13.6	60	124	77	45	14	○
D105-05-13700A1	13.7	60	124	77	45	14	○
D105-05-13800A1	13.8	60	124	77	45	14	○
D105-05-13900A1	13.9	60	124	77	45	14	○
D105-05-14000A1	14.0	60	124	77	45	14	●
D105-05-14100A1	14.1	63	133	83	48	16	○
D105-05-14200A1	14.2	63	133	83	48	16	○
D105-05-14300A1	14.3	63	133	83	48	16	○
D105-05-14400A1	14.4	63	133	83	48	16	○
D105-05-14500A1	14.5	63	133	83	48	16	●
D105-05-14600A1	14.6	63	133	83	48	16	○
D105-05-14700A1	14.7	63	133	83	48	16	○
D105-05-14800A1	14.8	63	133	83	48	16	○
D105-05-14900A1	14.9	63	133	83	48	16	○
D105-05-15000A1	15.0	63	133	83	48	16	●
D105-05-15100A1	15.1	63	133	83	48	16	○
D105-05-15200A1	15.2	63	133	83	48	16	○
D105-05-15300A1	15.3	63	133	83	48	16	○
D105-05-15400A1	15.4	63	133	83	48	16	○
D105-05-15500A1	15.5	63	133	83	48	16	●
D105-05-15600A1	15.6	63	133	83	48	16	○
D105-05-15700A1	15.7	63	133	83	48	16	○
D105-05-15800A1	15.8	63	133	83	48	16	○
D105-05-15900A1	15.9	63	133	83	48	16	○
D105-05-16000A1	16.0	63	133	83	48	16	●
D105-05-16100A1	16.1	71	143	93	48	18	○

Special product can be ordered

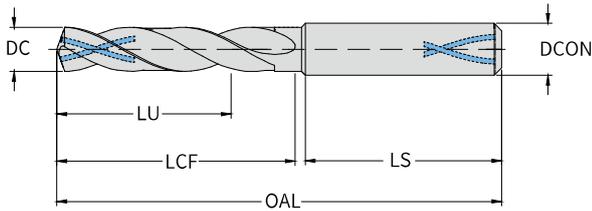
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D105 5xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



5×DC

DIN  
6537 L

**h7**

**140°**

Product code	DC(h7) mm	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D105-05-16200A1	16.2	71	143	93	48	18	○
D105-05-16300A1	16.3	71	143	93	48	18	○
D105-05-16400A1	16.4	71	143	93	48	18	○
D105-05-16500A1	16.5	71	143	93	48	18	●
D105-05-16600A1	16.6	71	143	93	48	18	○
D105-05-16700A1	16.7	71	143	93	48	18	○
D105-05-16800A1	16.8	71	143	93	48	18	○
D105-05-16900A1	16.9	71	143	93	48	18	○
D105-05-17000A1	17.0	71	143	93	48	18	●
D105-05-17100A1	17.1	71	143	93	48	18	○
D105-05-17200A1	17.2	71	143	93	48	18	○
D105-05-17300A1	17.3	71	143	93	48	18	○
D105-05-17400A1	17.4	71	143	93	48	18	○
D105-05-17500A1	17.5	71	143	93	48	18	●
D105-05-17600A1	17.6	71	143	93	48	18	○
D105-05-17700A1	17.7	71	143	93	48	18	○
D105-05-17800A1	17.8	71	143	93	48	18	○
D105-05-17900A1	17.9	71	143	93	48	18	○
D105-05-18000A1	18.0	71	143	93	48	18	●
D105-05-18100A1	18.1	77	153	101	50	20	○
D105-05-18200A1	18.2	77	153	101	50	20	○
D105-05-18300A1	18.3	77	153	101	50	20	○
D105-05-18400A1	18.4	77	153	101	50	20	○
D105-05-18500A1	18.5	77	153	101	50	20	●
D105-05-18600A1	18.6	77	153	101	50	20	○
D105-05-18700A1	18.7	77	153	101	50	20	○
D105-05-18800A1	18.8	77	153	101	50	20	○
D105-05-18900A1	18.9	77	153	101	50	20	○
D105-05-19000A1	19.0	77	153	101	50	20	●
D105-05-19100A1	19.1	77	153	101	50	20	○
D105-05-19200A1	19.2	77	153	101	50	20	○
D105-05-19300A1	19.3	77	153	101	50	20	○
D105-05-19400A1	19.4	77	153	101	50	20	○
D105-05-19500A1	19.5	77	153	101	50	20	●
D105-05-19600A1	19.6	77	153	101	50	20	○
D105-05-19700A1	19.7	77	153	101	50	20	○
D105-05-19800A1	19.8	77	153	101	50	20	○
D105-05-19900A1	19.9	77	153	101	50	20	○
D105-05-20000A1	20.0	77	153	101	50	20	○

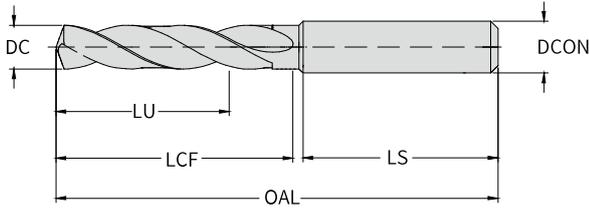
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D106 3xDc**

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-03000A0 AP30P1U	3.0		14	62	20	36	4	●
D106-03-03100A0 AP30P1U	3.1		14	62	20	36	4	●
D106-03-03175A0 AP30P1U	3.175	1/8"	14	62	20	36	4	○
D106-03-03200A0 AP30P1U	3.2		14	62	20	36	4	●
D106-03-03250A0 AP30P1U	3.25		14	62	20	36	4	○
D106-03-03300A0 AP30P1U	3.3		14	62	20	36	4	●
D106-03-03400A0 AP30P1U	3.4		14	62	20	36	4	○
D106-03-03500A0 AP30P1U	3.5		14	62	20	36	4	●
D106-03-03572A0 AP30P1U	3.572	9/64"	14	62	20	36	4	○
D106-03-03600A0 AP30P1U	3.6		14	62	20	36	4	●
D106-03-03650A0 AP30P1U	3.65		14	62	20	36	4	○
D106-03-03700A0 AP30P1U	3.7		14	62	20	36	4	●
D106-03-03800A0 AP30P1U	3.8		17	66	24	36	4	○
D106-03-03900A0 AP30P1U	3.9		17	66	24	36	4	●
D106-03-03969A0 AP30P1U	3.969	5/32"	17	66	24	36	4	○
D106-03-04000A0 AP30P1U	4.0		17	66	24	36	4	●
D106-03-04100A0 AP30P1U	4.1		17	66	24	36	6	○
D106-03-04200A0 AP30P1U	4.2		17	66	24	36	6	●
D106-03-04300A0 AP30P1U	4.3		17	66	24	36	6	○
D106-03-04366A0 AP30P1U	4.366	11/64"	17	66	24	36	6	○
D106-03-04400A0 AP30P1U	4.4		17	66	24	36	6	○
D106-03-04500A0 AP30P1U	4.5		17	66	24	36	6	●
D106-03-04600A0 AP30P1U	4.6		17	66	24	36	6	○
D106-03-04650A0 AP30P1U	4.65		17	66	24	36	6	○
D106-03-04700A0 AP30P1U	4.7		17	66	24	36	6	○
D106-03-04763A0 AP30P1U	4.763	3/16"	20	66	28	36	6	○
D106-03-04800A0 AP30P1U	4.8		20	66	28	36	6	●
D106-03-04900A0 AP30P1U	4.9		20	66	28	36	6	●
D106-03-05000A0 AP30P1U	5.0		20	66	28	36	6	●
D106-03-05100A0 AP30P1U	5.1		20	66	28	36	6	●
D106-03-05159A0 AP30P1U	5.159	13/64"	20	66	28	36	6	○
D106-03-05200A0 AP30P1U	5.2		20	66	28	36	6	●
D106-03-05300A0 AP30P1U	5.3		20	66	28	36	6	○
D106-03-05400A0 AP30P1U	5.4		20	66	28	36	6	○
D106-03-05500A0 AP30P1U	5.5		20	66	28	36	6	●
D106-03-05550A0 AP30P1U	5.55		20	66	28	36	6	○
D106-03-05556A0 AP30P1U	5.556	7/32"	20	66	28	36	6	○
D106-03-05600A0 AP30P1U	5.6		20	66	28	36	6	○
D106-03-05700A0 AP30P1U	5.7		20	66	28	36	6	○
D106-03-05750A0 AP30P1U	5.75		20	66	28	36	6	○
D106-03-05800A0 AP30P1U	5.8		20	66	28	36	6	●
D106-03-05900A0 AP30P1U	5.9		20	66	28	36	6	●
D106-03-05953A0 AP30P1U	5.953	15/64"	20	66	28	36	6	○
D106-03-06000A0 AP30P1U	6.0		20	66	28	36	6	●

Special product can be ordered

● : Standard stock ○ : Made-to-Order

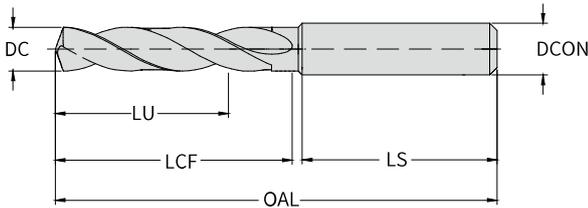
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D106 3xDc

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



**3xDc**

**DIN 6537 K**

m7

140°

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-06100A0 AP30P1U	6.1		24	79	41	36	8	○
D106-03-06200A0 AP30P1U	6.2		24	79	41	36	8	○
D106-03-06300A0 AP30P1U	6.3		24	79	41	36	8	○
D106-03-06350A0 AP30P1U	6.35	1/4"	24	79	41	36	8	○
D106-03-06400A0 AP30P1U	6.4		24	79	41	36	8	○
D106-03-06500A0 AP30P1U	6.5		24	79	41	36	8	●
D106-03-06600A0 AP30P1U	6.6		24	79	41	36	8	○
D106-03-06700A0 AP30P1U	6.7		24	79	41	36	8	○
D106-03-06747A0 AP30P1U	6.747	17/64"	24	79	41	36	8	○
D106-03-06800A0 AP30P1U	6.8		24	79	41	36	8	●
D106-03-06900A0 AP30P1U	6.9		24	79	41	36	8	●
D106-03-07000A0 AP30P1U	7.0		24	79	41	36	8	●
D106-03-07100A0 AP30P1U	7.1		29	79	41	36	8	○
D106-03-07144A0 AP30P1U	7.144	9/32"	29	79	41	36	8	○
D106-03-07200A0 AP30P1U	7.2		29	79	41	36	8	○
D106-03-07250A0 AP30P1U	7.25		29	79	41	36	8	○
D106-03-07300A0 AP30P1U	7.3		29	79	41	36	8	○
D106-03-07400A0 AP30P1U	7.4		29	79	41	36	8	●
D106-03-07450A0 AP30P1U	7.45		29	79	41	36	8	○
D106-03-07500A0 AP30P1U	7.5		29	79	41	36	8	●
D106-03-07541A0 AP30P1U	7.541	19/64"	29	79	41	36	8	○
D106-03-07550A0 AP30P1U	7.55		29	79	41	36	8	○
D106-03-07600A0 AP30P1U	7.6		29	79	41	36	8	○
D106-03-07700A0 AP30P1U	7.7		29	79	41	36	8	○
D106-03-07800A0 AP30P1U	7.8		29	79	41	36	8	●
D106-03-07900A0 AP30P1U	7.9		29	79	41	36	8	●
D106-03-07938A0 AP30P1U	7.938	5/16"	29	79	41	36	8	○
D106-03-08000A0 AP30P1U	8.0		29	79	41	36	8	●
D106-03-08100A0 AP30P1U	8.1		35	89	47	40	10	○
D106-03-08200A0 AP30P1U	8.2		35	89	47	40	10	○
D106-03-08300A0 AP30P1U	8.3		35	89	47	40	10	○
D106-03-08334A0 AP30P1U	8.334	21/64"	35	89	47	40	10	○
D106-03-08400A0 AP30P1U	8.4		35	89	47	40	10	○
D106-03-08500A0 AP30P1U	8.5		35	89	47	40	10	●
D106-03-08600A0 AP30P1U	8.6		35	89	47	40	10	●
D106-03-08700A0 AP30P1U	8.7		35	89	47	40	10	○
D106-03-08731A0 AP30P1U	8.731	11/32"	35	89	47	40	10	○
D106-03-08750A0 AP30P1U	8.75		35	89	47	40	10	○
D106-03-08800A0 AP30P1U	8.8		35	89	47	40	10	●
D106-03-08900A0 AP30P1U	8.9		35	89	47	40	10	●

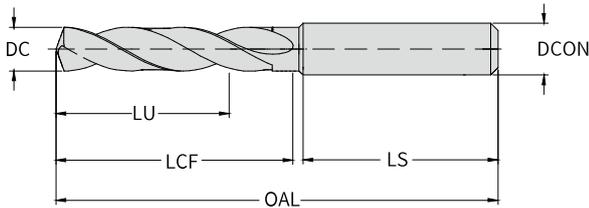
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D106 3xDc**

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



**3xDc** **DIN 6537 K** **m7** **140°**

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-09000A0 AP30P1U	9.0		35	89	47	40	10	●
D106-03-09100A0 AP30P1U	9.1		35	89	47	40	10	○
D106-03-09128A0 AP30P1U	9.128	23/64"	35	89	47	40	10	○
D106-03-09200A0 AP30P1U	9.2		35	89	47	40	10	○
D106-03-09300A0 AP30P1U	9.3		35	89	47	40	10	●
D106-03-09400A0 AP30P1U	9.4		35	89	47	40	10	○
D106-03-09500A0 AP30P1U	9.5		35	89	47	40	10	○
D106-03-09525A0 AP30P1U	9.525	3/8"	35	89	47	40	10	○
D106-03-09550A0 AP30P1U	9.55		35	89	47	40	10	○
D106-03-09600A0 AP30P1U	9.6		35	89	47	40	10	○
D106-03-09700A0 AP30P1U	9.7		35	89	47	40	10	○
D106-03-09800A0 AP30P1U	9.8		35	89	47	40	10	●
D106-03-09900A0 AP30P1U	9.9		35	89	47	40	10	●
D106-03-09922A0 AP30P1U	9.922	25/64"	35	89	47	40	10	○
D106-03-10000A0 AP30P1U	10.0		35	89	47	40	10	●
D106-03-10100A0 AP30P1U	10.1		40	102	55	45	12	●
D106-03-10200A0 AP30P1U	10.2		40	102	55	45	12	●
D106-03-10300A0 AP30P1U	10.3		40	102	55	45	12	●
D106-03-10319A0 AP30P1U	10.319	13/32"	40	102	55	45	12	○
D106-03-10400A0 AP30P1U	10.4		40	102	55	45	12	○
D106-03-10500A0 AP30P1U	10.5		40	102	55	45	12	●
D106-03-10600A0 AP30P1U	10.6		40	102	55	45	12	●
D106-03-10700A0 AP30P1U	10.7		40	102	55	45	12	○
D106-03-10716A0 AP30P1U	10.716	27/64"	40	102	55	45	12	○
D106-03-10800A0 AP30P1U	10.8		40	102	55	45	12	●
D106-03-10900A0 AP30P1U	10.9		40	102	55	45	12	○
D106-03-11000A0 AP30P1U	11.0		40	102	55	45	12	●
D106-03-11100A0 AP30P1U	11.1		40	102	55	45	12	○
D106-03-11113A0 AP30P1U	11.113	7/16"	40	102	55	45	12	○
D106-03-11200A0 AP30P1U	11.2		40	102	55	45	12	○
D106-03-11300A0 AP30P1U	11.3		40	102	55	45	12	○
D106-03-11400A0 AP30P1U	11.4		40	102	55	45	12	○
D106-03-11500A0 AP30P1U	11.5		40	102	55	45	12	○
D106-03-11509A0 AP30P1U	11.509	29/64"	40	102	55	45	12	○
D106-03-11550A0 AP30P1U	11.55		40	102	55	45	12	○
D106-03-11600A0 AP30P1U	11.6		40	102	55	45	12	○
D106-03-11700A0 AP30P1U	11.7		40	102	55	45	12	○
D106-03-11800A0 AP30P1U	11.8		40	102	55	45	12	●
D106-03-11900A0 AP30P1U	11.9		40	102	55	45	12	○
D106-03-11906A0 AP30P1U	11.906	15/32"	40	102	55	45	12	○
D106-03-12000A0 AP30P1U	12.0		40	102	55	45	12	●
D106-03-12100A0 AP30P1U	12.1		43	107	60	45	14	○
D106-03-12200A0 AP30P1U	12.2		43	107	60	45	14	○
D106-03-12250A0 AP30P1U	12.25		43	107	60	45	14	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

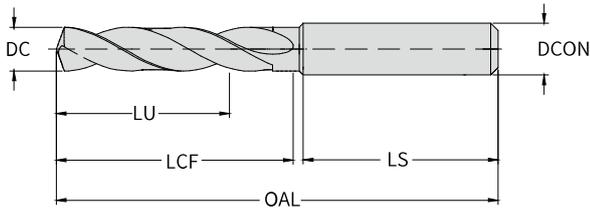
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D106 3xDc

P	M	K	N	S	H
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•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-12400A0 AP30P1U	12.4		43	107	60	45	14	○
D106-03-12500A0 AP30P1U	12.5		43	107	60	45	14	●
D106-03-12600A0 AP30P1U	12.6		43	107	60	45	14	○
D106-03-12700A0 AP30P1U	12.7	1/2"	43	107	60	45	14	○
D106-03-12750A0 AP30P1U	12.75		43	107	60	45	14	○
D106-03-12800A0 AP30P1U	12.8		43	107	60	45	14	○
D106-03-12900A0 AP30P1U	12.9		43	107	60	45	14	○
D106-03-13000A0 AP30P1U	13.0		43	107	60	45	14	●
D106-03-13100A0 AP30P1U	13.1		43	107	60	45	14	○
D106-03-13200A0 AP30P1U	13.2		43	107	60	45	14	●
D106-03-13300A0 AP30P1U	13.3		43	107	60	45	14	○
D106-03-13400A0 AP30P1U	13.4		43	107	60	45	14	○
D106-03-13494A0 AP30P1U	13.494	17/32"	43	107	60	45	14	○
D106-03-13500A0 AP30P1U	13.5		43	107	60	45	14	○
D106-03-13600A0 AP30P1U	13.6		43	107	60	45	14	○
D106-03-13700A0 AP30P1U	13.7		43	107	60	45	14	○
D106-03-13800A0 AP30P1U	13.8		43	107	60	45	14	○
D106-03-13900A0 AP30P1U	13.9		43	107	60	45	14	○
D106-03-14000A0 AP30P1U	14.0		43	107	60	45	14	●
D106-03-14100A0 AP30P1U	14.1		45	115	65	48	16	●
D106-03-14200A0 AP30P1U	14.2		45	115	65	48	16	●
D106-03-14288A0 AP30P1U	14.288	9/16"	45	115	65	48	16	○
D106-03-14300A0 AP30P1U	14.3		45	115	65	48	16	○
D106-03-14400A0 AP30P1U	14.4		45	115	65	48	16	○
D106-03-14500A0 AP30P1U	14.5		45	115	65	48	16	●
D106-03-14600A0 AP30P1U	14.6		45	115	65	48	16	●
D106-03-14700A0 AP30P1U	14.7		45	115	65	48	16	●
D106-03-14750A0 AP30P1U	14.75		45	115	65	48	16	○
D106-03-14800A0 AP30P1U	14.8		45	115	65	48	16	○
D106-03-15000A0 AP30P1U	15.0		45	115	65	48	16	●
D106-03-15100A0 AP30P1U	15.1		45	115	65	48	16	○
D106-03-15200A0 AP30P1U	15.2		45	115	65	48	16	○
D106-03-15300A0 AP30P1U	15.3		45	115	65	48	16	○
D106-03-15500A0 AP30P1U	15.5		45	115	65	48	16	●
D106-03-15600A0 AP30P1U	15.6		45	115	65	48	16	○
D106-03-15700A0 AP30P1U	15.7		45	115	65	48	16	●
D106-03-15800A0 AP30P1U	15.8		45	115	65	48	16	●
D106-03-15875A0 AP30P1U	15.875	5/8"	45	115	65	48	16	○
D106-03-15900A0 AP30P1U	15.9		45	115	65	48	16	○
D106-03-16000A0 AP30P1U	16.0		45	115	65	48	16	●
D106-03-16500A0 AP30P1U	16.5		51	123	73	48	18	●
D106-03-17000A0 AP30P1U	17.0		51	123	73	48	18	●
D106-03-17500A0 AP30P1U	17.5		51	123	73	48	18	●
D106-03-18000A0 AP30P1U	18.0		51	123	73	48	18	●
D106-03-18500A0 AP30P1U	18.5		55	131	79	50	20	●
D106-03-19000A0 AP30P1U	19.0		55	131	79	50	20	●
D106-03-20000A0 AP30P1U	20.0		55	131	79	50	20	●

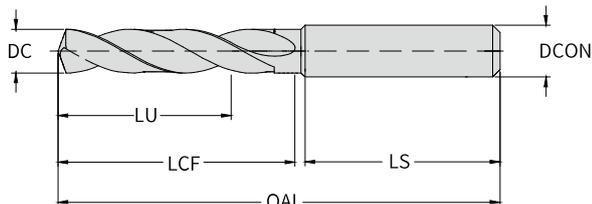
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D106 5xDc**

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



**5xDc** **DIN 6537 L** **m7** **140°**

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-03000A0 AP30P1U	3.0		23	66	28	36	4	●
D106-05-03100A0 AP30P1U	3.1		23	66	28	36	4	●
D106-05-03175A0 AP30P1U	3.175	1/8"	23	66	28	36	4	○
D106-05-03200A0 AP30P1U	3.2		23	66	28	36	4	●
D106-05-03250A0 AP30P1U	3.25		23	66	28	36	4	○
D106-05-03300A0 AP30P1U	3.3		23	66	28	36	4	●
D106-05-03400A0 AP30P1U	3.4		23	66	28	36	4	○
D106-05-03500A0 AP30P1U	3.5		23	66	28	36	4	●
D106-05-03572A0 AP30P1U	3.572	9/64"	23	66	28	36	4	○
D106-05-03600A0 AP30P1U	3.6		23	66	28	36	4	●
D106-05-03650A0 AP30P1U	3.65		23	66	28	36	4	○
D106-05-03700A0 AP30P1U	3.7		23	66	28	36	4	●
D106-05-03800A0 AP30P1U	3.8		29	74	36	36	4	○
D106-05-03900A0 AP30P1U	3.9		29	74	36	36	4	●
D106-05-03969A0 AP30P1U	3.969	5/32"	29	74	36	36	4	○
D106-05-04000A0 AP30P1U	4.0		29	74	36	36	4	●
D106-05-04100A0 AP30P1U	4.1		29	74	36	36	6	○
D106-05-04200A0 AP30P1U	4.2		29	74	36	36	6	●
D106-05-04300A0 AP30P1U	4.3		29	74	36	36	6	○
D106-05-04366A0 AP30P1U	4.366	11/64"	29	74	36	36	6	○
D106-05-04400A0 AP30P1U	4.4		29	74	36	36	6	○
D106-05-04500A0 AP30P1U	4.5		29	74	36	36	6	●
D106-05-04600A0 AP30P1U	4.6		29	74	36	36	6	○
D106-05-04650A0 AP30P1U	4.65		29	74	36	36	6	○
D106-05-04700A0 AP30P1U	4.7		29	74	36	36	6	○
D106-05-04763A0 AP30P1U	4.763	3/16"	35	82	44	36	6	○
D106-05-04800A0 AP30P1U	4.8		35	82	44	36	6	●
D106-05-04900A0 AP30P1U	4.9		35	82	44	36	6	●
D106-05-05000A0 AP30P1U	5.0		35	82	44	36	6	●
D106-05-05100A0 AP30P1U	5.1		35	82	44	36	6	●
D106-05-05159A0 AP30P1U	5.159	13/64"	35	82	44	36	6	○
D106-05-05200A0 AP30P1U	5.2		35	82	44	36	6	●
D106-05-05300A0 AP30P1U	5.3		35	82	44	36	6	○
D106-05-05400A0 AP30P1U	5.4		35	82	44	36	6	○
D106-05-05500A0 AP30P1U	5.5		35	82	44	36	6	●
D106-05-05550A0 AP30P1U	5.55		35	82	44	36	6	○
D106-05-05556A0 AP30P1U	5.556	7/32"	35	82	44	36	6	○
D106-05-05600A0 AP30P1U	5.6		35	82	44	36	6	○
D106-05-05700A0 AP30P1U	5.7		35	82	44	36	6	○
D106-05-05800A0 AP30P1U	5.8		35	82	44	36	6	●
D106-05-05900A0 AP30P1U	5.9		35	82	44	36	6	●
D106-05-05953A0 AP30P1U	5.953	15/64"	35	82	44	36	6	○
D106-05-06000A0 AP30P1U	6.0		35	82	44	36	6	●
D106-05-06100A0 AP30P1U	6.1		43	91	53	36	8	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

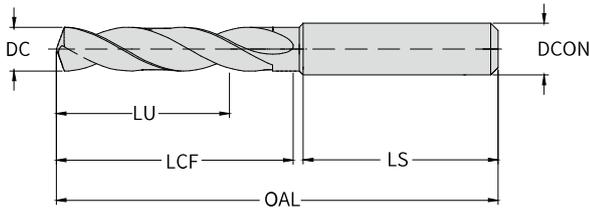
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D106 5xDc

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-06200A0 AP30P1U	6.2		43	91	53	36	8	○
D106-05-06300A0 AP30P1U	6.3		43	91	53	36	8	○
D106-05-06350A0 AP30P1U	6.35	1/4"	43	91	53	36	8	○
D106-05-06400A0 AP30P1U	6.4		43	91	53	36	8	○
D106-05-06500A0 AP30P1U	6.5		43	91	53	36	8	●
D106-05-06600A0 AP30P1U	6.6		43	91	53	36	8	○
D106-05-06700A0 AP30P1U	6.7		43	91	53	36	8	○
D106-05-06747A0 AP30P1U	6.747	17/64"	43	91	53	36	8	○
D106-05-06800A0 AP30P1U	6.8		43	91	53	36	8	●
D106-05-06900A0 AP30P1U	6.9		43	91	53	36	8	●
D106-05-07000A0 AP30P1U	7.0		43	91	53	36	8	●
D106-05-07100A0 AP30P1U	7.1		43	91	53	36	8	○
D106-05-07144A0 AP30P1U	7.144	9/32"	43	91	53	36	8	○
D106-05-07200A0 AP30P1U	7.2		43	91	53	36	8	○
D106-05-07300A0 AP30P1U	7.3		43	91	53	36	8	○
D106-05-07400A0 AP30P1U	7.4		43	91	53	36	8	●
D106-05-07500A0 AP30P1U	7.5		43	91	53	36	8	●
D106-05-07541A0 AP30P1U	7.541	19/64"	43	91	53	36	8	○
D106-05-07550A0 AP30P1U	7.55		43	91	53	36	8	○
D106-05-07600A0 AP30P1U	7.6		43	91	53	36	8	○
D106-05-07700A0 AP30P1U	7.7		43	91	53	36	8	○
D106-05-07800A0 AP30P1U	7.8		43	91	53	36	8	●
D106-05-07900A0 AP30P1U	7.9		43	91	53	36	8	●
D106-05-07938A0 AP30P1U	7.938	5/16"	43	91	53	36	8	○
D106-05-08000A0 AP30P1U	8.0		43	91	53	36	8	●
D106-05-08100A0 AP30P1U	8.1		49	103	61	40	10	○
D106-05-08200A0 AP30P1U	8.2		49	103	61	40	10	○
D106-05-08300A0 AP30P1U	8.3		49	103	61	40	10	○
D106-05-08334A0 AP30P1U	8.334	21/64"	49	103	61	40	10	○
D106-05-08400A0 AP30P1U	8.4		49	103	61	40	10	○
D106-05-08500A0 AP30P1U	8.5		49	103	61	40	10	●
D106-05-08600A0 AP30P1U	8.6		49	103	61	40	10	●
D106-05-08700A0 AP30P1U	8.7		49	103	61	40	10	○
D106-05-08731A0 AP30P1U	8.731	11/32"	49	103	61	40	10	○
D106-05-08800A0 AP30P1U	8.8		49	103	61	40	10	●
D106-05-08900A0 AP30P1U	8.9		49	103	61	40	10	●
D106-05-09000A0 AP30P1U	9.0		49	103	61	40	10	●
D106-05-09100A0 AP30P1U	9.1		49	103	61	40	10	○
D106-05-09128A0 AP30P1U	9.128	23/64"	49	103	61	40	10	○
D106-05-09200A0 AP30P1U	9.2		49	103	61	40	10	○
D106-05-09300A0 AP30P1U	9.3		49	103	61	40	10	●
D106-05-09400A0 AP30P1U	9.4		49	103	61	40	10	○
D106-05-09500A0 AP30P1U	9.5		49	103	61	40	10	○
D106-05-09525A0 AP30P1U	9.525	3/8"	49	103	61	40	10	○

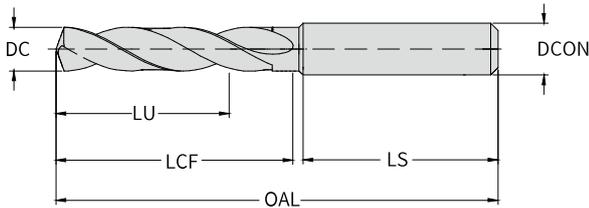
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide External Coolant Drill D106 5xDc**

P	M	K	N	S	H
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•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-09550A0 AP30P1U	9.55		49	103	61	40	10	○
D106-05-09600A0 AP30P1U	9.6		49	103	61	40	10	○
D106-05-09700A0 AP30P1U	9.7		49	103	61	40	10	○
D106-05-09800A0 AP30P1U	9.8		49	103	61	40	10	●
D106-05-09900A0 AP30P1U	9.9		49	103	61	40	10	●
D106-05-09922A0 AP30P1U	9.922	25/64"	49	103	61	40	10	○
D106-05-10000A0 AP30P1U	10.0		49	103	61	40	10	●
D106-05-10100A0 AP30P1U	10.1		56	118	71	45	12	●
D106-05-10200A0 AP30P1U	10.2		56	118	71	45	12	●
D106-05-10300A0 AP30P1U	10.3		56	118	71	45	12	●
D106-05-10319A0 AP30P1U	10.319	13/32"	56	118	71	45	12	○
D106-05-10400A0 AP30P1U	10.4		56	118	71	45	12	○
D106-05-10500A0 AP30P1U	10.5		56	118	71	45	12	●
D106-05-10600A0 AP30P1U	10.6		56	118	71	45	12	●
D106-05-10700A0 AP30P1U	10.7		56	118	71	45	12	○
D106-05-10716A0 AP30P1U	10.716	27/64"	56	118	71	45	12	○
D106-05-10800A0 AP30P1U	10.8		56	118	71	45	12	●
D106-05-10900A0 AP30P1U	10.9		56	118	71	45	12	○
D106-05-11000A0 AP30P1U	11.0		56	118	71	45	12	●
D106-05-11100A0 AP30P1U	11.1		56	118	71	45	12	○
D106-05-11113A0 AP30P1U	11.113	7/16"	56	118	71	45	12	○
D106-05-11200A0 AP30P1U	11.2		56	118	71	45	12	○
D106-05-11300A0 AP30P1U	11.3		56	118	71	45	12	○
D106-05-11400A0 AP30P1U	11.4		56	118	71	45	12	○
D106-05-11500A0 AP30P1U	11.5		56	118	71	45	12	○
D106-05-11509A0 AP30P1U	11.509	29/64"	56	118	71	45	12	○
D106-05-11550A0 AP30P1U	11.55		56	118	71	45	12	○
D106-05-11600A0 AP30P1U	11.6		56	118	71	45	12	○
D106-05-11700A0 AP30P1U	11.7		56	118	71	45	12	○
D106-05-11800A0 AP30P1U	11.8		56	118	71	45	12	●
D106-05-11900A0 AP30P1U	11.9		56	118	71	45	12	○
D106-05-11906A0 AP30P1U	11.906	15/32"	56	118	71	45	12	○
D106-05-12000A0 AP30P1U	12.0		56	118	71	45	12	●
D106-05-12100A0 AP30P1U	12.1		60	124	77	45	14	○
D106-05-12200A0 AP30P1U	12.2		60	124	77	45	14	○
D106-05-12250A0 AP30P1U	12.25		60	124	77	45	14	○
D106-05-12300A0 AP30P1U	12.3		60	124	77	45	14	○
D106-05-12303A0 AP30P1U	12.303	31/64"	60	124	77	45	14	○
D106-05-12400A0 AP30P1U	12.4		60	124	77	45	14	○
D106-05-12500A0 AP30P1U	12.5		60	124	77	45	14	●
D106-05-12600A0 AP30P1U	12.6		60	124	77	45	14	○
D106-05-12700A0 AP30P1U	12.7	1/2"	60	124	77	45	14	○
D106-05-12750A0 AP30P1U	12.75		60	124	77	45	14	○
D106-05-12800A0 AP30P1U	12.8		60	124	77	45	14	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

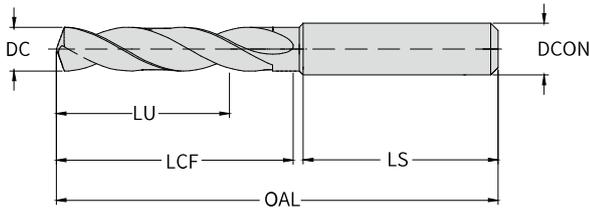
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide External Coolant Drill D106 5xDc

P	M	K	N	S	H
••		••	••		

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-12900A0 AP30P1U	12.9		60	124	77	45	14	○
D106-05-13000A0 AP30P1U	13.0		60	124	77	45	14	●
D106-05-13100A0 AP30P1U	13.1		60	124	77	45	14	○
D106-05-13200A0 AP30P1U	13.2		60	124	77	45	14	●
D106-05-13300A0 AP30P1U	13.3		60	124	77	45	14	○
D106-05-13400A0 AP30P1U	13.4		60	124	77	45	14	○
D106-05-13494A0 AP30P1U	13.494	17/32"	60	124	77	45	14	○
D106-05-13500A0 AP30P1U	13.5		60	124	77	45	14	○
D106-05-13600A0 AP30P1U	13.6		60	124	77	45	14	○
D106-05-13700A0 AP30P1U	13.7		60	124	77	45	14	●
D106-05-13800A0 AP30P1U	13.8		60	124	77	45	14	○
D106-05-13900A0 AP30P1U	13.9		60	124	77	45	14	○
D106-05-14000A0 AP30P1U	14.0		60	124	77	45	14	●
D106-05-14100A0 AP30P1U	14.1		63	133	83	48	16	●
D106-05-14200A0 AP30P1U	14.2		63	133	83	48	16	●
D106-05-14288A0 AP30P1U	14.288	9/16"	63	133	83	48	16	○
D106-05-14300A0 AP30P1U	14.3		63	133	83	48	16	○
D106-05-14400A0 AP30P1U	14.4		63	133	83	48	16	○
D106-05-14500A0 AP30P1U	14.5		63	133	83	48	16	●
D106-05-14600A0 AP30P1U	14.6		63	133	83	48	16	●
D106-05-14700A0 AP30P1U	14.7		63	133	83	48	16	●
D106-05-14750A0 AP30P1U	14.75		63	133	83	48	16	○
D106-05-14800A0 AP30P1U	14.8		63	133	83	48	16	○
D106-05-15000A0 AP30P1U	15.0		63	133	83	48	16	●
D106-05-15100A0 AP30P1U	15.1		63	133	83	48	16	○
D106-05-15200A0 AP30P1U	15.2		63	133	83	48	16	○
D106-05-15300A0 AP30P1U	15.3		63	133	83	48	16	○
D106-05-15500A0 AP30P1U	15.5		63	133	83	48	16	●
D106-05-15600A0 AP30P1U	15.6		63	133	83	48	16	○
D106-05-15700A0 AP30P1U	15.7		63	133	83	48	16	●
D106-05-15800A0 AP30P1U	15.8		63	133	83	48	16	●
D106-05-15875A0 AP30P1U	15.875	5/8"	63	133	83	48	16	○
D106-05-15900A0 AP30P1U	15.9		63	133	83	48	16	○
D106-05-16000A0 AP30P1U	16.0		63	133	83	48	16	●
D106-05-16500A0 AP30P1U	16.5		71	143	93	48	18	●
D106-05-17000A0 AP30P1U	17.0		71	143	93	48	18	●
D106-05-17500A0 AP30P1U	17.5		71	143	93	48	18	●
D106-05-18000A0 AP30P1U	18.0		71	143	93	48	18	●
D106-05-18500A0 AP30P1U	18.5		77	153	101	50	20	●
D106-05-19000A0 AP30P1U	19.0		77	153	101	50	20	●
D106-05-20000A0 AP30P1U	20.0		77	153	101	50	20	●

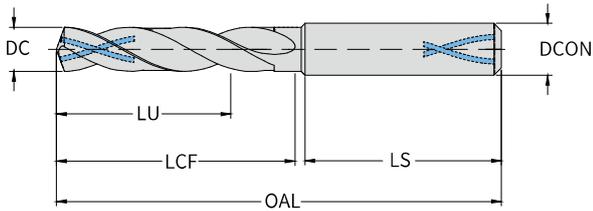
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D106 3xDC**

P	M	K	N	S	H
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•• 1st choice • 2nd choice



**3xDC**

**DIN 6537 K**

m7

140°

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-03000A1 AP30P1U	3.0		14	62	20	36	4	●
D106-03-03100A1 AP30P1U	3.1		14	62	20	36	4	●
D106-03-03175A1 AP30P1U	3.175	1/8"	14	62	20	36	4	○
D106-03-03200A1 AP30P1U	3.2		14	62	20	36	4	●
D106-03-03250A1 AP30P1U	3.25		14	62	20	36	4	○
D106-03-03300A1 AP30P1U	3.3		14	62	20	36	4	●
D106-03-03400A1 AP30P1U	3.4		14	62	20	36	4	○
D106-03-03500A1 AP30P1U	3.5		14	62	20	36	4	●
D106-03-03572A1 AP30P1U	3.572	9/64"	14	62	20	36	4	○
D106-03-03600A1 AP30P1U	3.6		14	62	20	36	4	●
D106-03-03650A1 AP30P1U	3.65		14	62	20	36	4	○
D106-03-03700A1 AP30P1U	3.7		14	62	20	36	4	●
D106-03-03800A1 AP30P1U	3.8		17	66	24	36	4	○
D106-03-03900A1 AP30P1U	3.9		17	66	24	36	4	●
D106-03-03969A1 AP30P1U	3.969	5/32"	17	66	24	36	4	○
D106-03-04000A1 AP30P1U	4.0		17	66	24	36	4	●
D106-03-04100A1 AP30P1U	4.1		17	66	24	36	6	○
D106-03-04200A1 AP30P1U	4.2		17	66	24	36	6	●
D106-03-04300A1 AP30P1U	4.3		17	66	24	36	6	○
D106-03-04366A1 AP30P1U	4.366	11/64"	17	66	24	36	6	○
D106-03-04400A1 AP30P1U	4.4		17	66	24	36	6	○
D106-03-04500A1 AP30P1U	4.5		17	66	24	36	6	●
D106-03-04600A1 AP30P1U	4.6		17	66	24	36	6	○
D106-03-04650A1 AP30P1U	4.65		17	66	24	36	6	○
D106-03-04700A1 AP30P1U	4.7		17	66	24	36	6	○
D106-03-04763A1 AP30P1U	4.763	3/16"	20	66	28	36	6	○
D106-03-04800A1 AP30P1U	4.8		20	66	28	36	6	●
D106-03-04900A1 AP30P1U	4.9		20	66	28	36	6	●
D106-03-05000A1 AP30P1U	5.0		20	66	28	36	6	●
D106-03-05100A1 AP30P1U	5.1		20	66	28	36	6	●
D106-03-05159A1 AP30P1U	5.159	13/64"	20	66	28	36	6	○
D106-03-05200A1 AP30P1U	5.2		20	66	28	36	6	●
D106-03-05300A1 AP30P1U	5.3		20	66	28	36	6	○
D106-03-05400A1 AP30P1U	5.4		20	66	28	36	6	○
D106-03-05500A1 AP30P1U	5.5		20	66	28	36	6	●
D106-03-05550A1 AP30P1U	5.55		20	66	28	36	6	○

Special product can be ordered

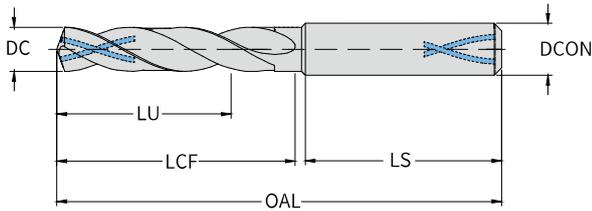
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D106 3xDc

P	M	K	N	S	H
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•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-05556A1 AP30P1U	5.556	7/32"	20	66	28	36	6	○
D106-03-05600A1 AP30P1U	5.6		20	66	28	36	6	○
D106-03-05700A1 AP30P1U	5.7		20	66	28	36	6	○
D106-03-05750A1 AP30P1U	5.75		20	66	28	36	6	○
D106-03-05800A1 AP30P1U	5.8		20	66	28	36	6	●
D106-03-05900A1 AP30P1U	5.9		20	66	28	36	6	●
D106-03-05953A1 AP30P1U	5.953	15/64"	20	66	28	36	6	○
D106-03-06000A1 AP30P1U	6.0		20	66	28	36	6	●
D106-03-06100A1 AP30P1U	6.1		24	79	41	36	8	○
D106-03-06200A1 AP30P1U	6.2		24	79	41	36	8	○
D106-03-06300A1 AP30P1U	6.3		24	79	41	36	8	○
D106-03-06350A1 AP30P1U	6.35	1/4"	24	79	41	36	8	○
D106-03-06400A1 AP30P1U	6.4		24	79	41	36	8	○
D106-03-06500A1 AP30P1U	6.5		24	79	41	36	8	●
D106-03-06600A1 AP30P1U	6.6		24	79	41	36	8	○
D106-03-06700A1 AP30P1U	6.7		24	79	41	36	8	○
D106-03-06747A1 AP30P1U	6.747	17/64"	24	79	41	36	8	○
D106-03-06800A1 AP30P1U	6.8		24	79	41	36	8	●
D106-03-06900A1 AP30P1U	6.9		24	79	41	36	8	●
D106-03-07000A1 AP30P1U	7.0		24	79	41	36	8	●
D106-03-07100A1 AP30P1U	7.1		29	79	41	36	8	○
D106-03-07144A1 AP30P1U	7.144	9/32"	29	79	41	36	8	○
D106-03-07200A1 AP30P1U	7.2		29	79	41	36	8	○
D106-03-07250A1 AP30P1U	7.25		29	79	41	36	8	○
D106-03-07300A1 AP30P1U	7.3		29	79	41	36	8	○
D106-03-07400A1 AP30P1U	7.4		29	79	41	36	8	●
D106-03-07450A1 AP30P1U	7.45		29	79	41	36	8	○
D106-03-07500A1 AP30P1U	7.5		29	79	41	36	8	●
D106-03-07541A1 AP30P1U	7.541	19/64"	29	79	41	36	8	○
D106-03-07550A1 AP30P1U	7.55		29	79	41	36	8	○
D106-03-07600A1 AP30P1U	7.6		29	79	41	36	8	○
D106-03-07700A1 AP30P1U	7.7		29	79	41	36	8	○
D106-03-07800A1 AP30P1U	7.8		29	79	41	36	8	●
D106-03-07900A1 AP30P1U	7.9		29	79	41	36	8	●
D106-03-07938A1 AP30P1U	7.938	5/16"	29	79	41	36	8	○
D106-03-08000A1 AP30P1U	8.0		29	79	41	36	8	●
D106-03-08100A1 AP30P1U	8.1		35	89	47	40	10	○
D106-03-08200A1 AP30P1U	8.2		35	89	47	40	10	○
D106-03-08300A1 AP30P1U	8.3		35	89	47	40	10	○
D106-03-08334A1 AP30P1U	8.334	21/64"	35	89	47	40	10	○
D106-03-08400A1 AP30P1U	8.4		35	89	47	40	10	○
D106-03-08500A1 AP30P1U	8.5		35	89	47	40	10	●
D106-03-08600A1 AP30P1U	8.6		35	89	47	40	10	●
D106-03-08700A1 AP30P1U	8.7		35	89	47	40	10	○
D106-03-08731A1 AP30P1U	8.731	11/32"	35	89	47	40	10	○
D106-03-08750A1 AP30P1U	8.75		35	89	47	40	10	○
D106-03-08800A1 AP30P1U	8.8		35	89	47	40	10	●
D106-03-08900A1 AP30P1U	8.9		35	89	47	40	10	●

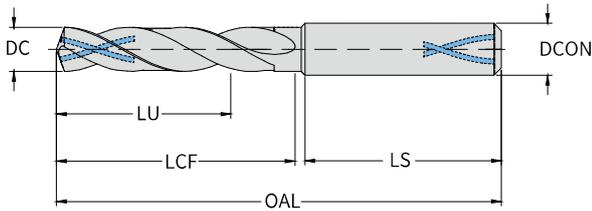
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D106 3xDc**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



**3xDc**

**DIN 6537 K**

m7

140°

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-09000A1 AP30P1U	9.0		35	89	47	40	10	●
D106-03-09100A1 AP30P1U	9.1		35	89	47	40	10	○
D106-03-09128A1 AP30P1U	9.128	23/64"	35	89	47	40	10	○
D106-03-09200A1 AP30P1U	9.2		35	89	47	40	10	○
D106-03-09300A1 AP30P1U	9.3		35	89	47	40	10	●
D106-03-09400A1 AP30P1U	9.4		35	89	47	40	10	○
D106-03-09500A1 AP30P1U	9.5		35	89	47	40	10	○
D106-03-09525A1 AP30P1U	9.525	3/8"	35	89	47	40	10	○
D106-03-09550A1 AP30P1U	9.55		35	89	47	40	10	○
D106-03-09600A1 AP30P1U	9.6		35	89	47	40	10	○
D106-03-09700A1 AP30P1U	9.7		35	89	47	40	10	○
D106-03-09800A1 AP30P1U	9.8		35	89	47	40	10	●
D106-03-09900A1 AP30P1U	9.9		35	89	47	40	10	●
D106-03-09922A1 AP30P1U	9.922	25/64"	35	89	47	40	10	○
D106-03-10000A1 AP30P1U	10.0		35	89	47	40	10	●
D106-03-10100A1 AP30P1U	10.1		40	102	55	45	12	●
D106-03-10200A1 AP30P1U	10.2		40	102	55	45	12	●
D106-03-10300A1 AP30P1U	10.3		40	102	55	45	12	●
D106-03-10319A1 AP30P1U	10.319	13/32"	40	102	55	45	12	○
D106-03-10400A1 AP30P1U	10.4		40	102	55	45	12	○
D106-03-10500A1 AP30P1U	10.5		40	102	55	45	12	●
D106-03-10600A1 AP30P1U	10.6		40	102	55	45	12	●
D106-03-10700A1 AP30P1U	10.7		40	102	55	45	12	○
D106-03-10716A1 AP30P1U	10.716	27/64"	40	102	55	45	12	○
D106-03-10800A1 AP30P1U	10.8		40	102	55	45	12	●
D106-03-10900A1 AP30P1U	10.9		40	102	55	45	12	○
D106-03-11000A1 AP30P1U	11.0		40	102	55	45	12	●
D106-03-11100A1 AP30P1U	11.1		40	102	55	45	12	○
D106-03-11113A1 AP30P1U	11.113	7/16"	40	102	55	45	12	○
D106-03-11200A1 AP30P1U	11.2		40	102	55	45	12	○
D106-03-11300A1 AP30P1U	11.3		40	102	55	45	12	○
D106-03-11400A1 AP30P1U	11.4		40	102	55	45	12	○
D106-03-11500A1 AP30P1U	11.5		40	102	55	45	12	○
D106-03-11509A1 AP30P1U	11.509	29/64"	40	102	55	45	12	○
D106-03-11550A1 AP30P1U	11.55		40	102	55	45	12	○
D106-03-11600A1 AP30P1U	11.6		40	102	55	45	12	○
D106-03-11700A1 AP30P1U	11.7		40	102	55	45	12	○
D106-03-11800A1 AP30P1U	11.8		40	102	55	45	12	●
D106-03-11900A1 AP30P1U	11.9		40	102	55	45	12	○
D106-03-11906A1 AP30P1U	11.906	15/32"	40	102	55	45	12	○
D106-03-12000A1 AP30P1U	12.0		40	102	55	45	12	●
D106-03-12100A1 AP30P1U	12.1		43	107	60	45	14	○
D106-03-12200A1 AP30P1U	12.2		43	107	60	45	14	○
D106-03-12250A1 AP30P1U	12.25		43	107	60	45	14	○

Special product can be ordered

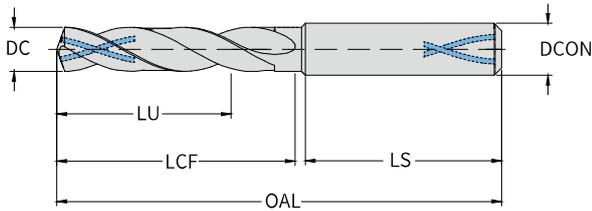
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D106 3xDc

P	M	K	N	S	H
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•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-03-12300A1 AP30P1U	12.3		43	107	60	45	14	○
D106-03-12303A1 AP30P1U	12.303	31/64"	43	107	60	45	14	○
D106-03-12400A1 AP30P1U	12.4		43	107	60	45	14	○
D106-03-12500A1 AP30P1U	12.5		43	107	60	45	14	●
D106-03-12600A1 AP30P1U	12.6		43	107	60	45	14	○
D106-03-12700A1 AP30P1U	12.7	1/2"	43	107	60	45	14	○
D106-03-12750A1 AP30P1U	12.75		43	107	60	45	14	○
D106-03-12800A1 AP30P1U	12.8		43	107	60	45	14	○
D106-03-12900A1 AP30P1U	12.9		43	107	60	45	14	○
D106-03-13000A1 AP30P1U	13.0		43	107	60	45	14	●
D106-03-13100A1 AP30P1U	13.1		43	107	60	45	14	○
D106-03-13200A1 AP30P1U	13.2		43	107	60	45	14	●
D106-03-13300A1 AP30P1U	13.3		43	107	60	45	14	○
D106-03-13400A1 AP30P1U	13.4		43	107	60	45	14	○
D106-03-13494A1 AP30P1U	13.494	17/32"	43	107	60	45	14	○
D106-03-13500A1 AP30P1U	13.5		43	107	60	45	14	○
D106-03-13600A1 AP30P1U	13.6		43	107	60	45	14	○
D106-03-13700A1 AP30P1U	13.7		43	107	60	45	14	○
D106-03-13800A1 AP30P1U	13.8		43	107	60	45	14	○
D106-03-13900A1 AP30P1U	13.9		43	107	60	45	14	○
D106-03-14000A1 AP30P1U	14.0		43	107	60	45	14	●
D106-03-14100A1 AP30P1U	14.1		45	115	65	48	16	●
D106-03-14200A1 AP30P1U	14.2		45	115	65	48	16	●
D106-03-14288A1 AP30P1U	14.288	9/16"	45	115	65	48	16	○
D106-03-14300A1 AP30P1U	14.3		45	115	65	48	16	○
D106-03-14400A1 AP30P1U	14.4		45	115	65	48	16	○
D106-03-14500A1 AP30P1U	14.5		45	115	65	48	16	●
D106-03-14600A1 AP30P1U	14.6		45	115	65	48	16	●
D106-03-14700A1 AP30P1U	14.7		45	115	65	48	16	●
D106-03-14750A1 AP30P1U	14.75		45	115	65	48	16	○
D106-03-14800A1 AP30P1U	14.8		45	115	65	48	16	○
D106-03-15000A1 AP30P1U	15.0		45	115	65	48	16	●
D106-03-15100A1 AP30P1U	15.1		45	115	65	48	16	○
D106-03-15200A1 AP30P1U	15.2		45	115	65	48	16	○
D106-03-15300A1 AP30P1U	15.3		45	115	65	48	16	○
D106-03-15500A1 AP30P1U	15.5		45	115	65	48	16	●
D106-03-15600A1 AP30P1U	15.6		45	115	65	48	16	○
D106-03-15700A1 AP30P1U	15.7		45	115	65	48	16	●
D106-03-15800A1 AP30P1U	15.8		45	115	65	48	16	●
D106-03-15875A1 AP30P1U	15.875	5/8"	45	115	65	48	16	○
D106-03-15900A1 AP30P1U	15.9		45	115	65	48	16	○
D106-03-16000A1 AP30P1U	16.0		45	115	65	48	16	●

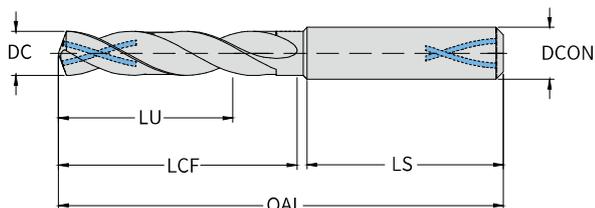
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D106 5xDc**

P	M	K	N	S	H
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•• 1st choice • 2nd choice



5xDc    DIN 6537 L    m7    140°

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-03000A1 AP30P1U	3.0		23	66	28	36	4	●
D106-05-03100A1 AP30P1U	3.1		23	66	28	36	4	●
D106-05-03175A1 AP30P1U	3.175	1/8"	23	66	28	36	4	○
D106-05-03200A1 AP30P1U	3.2		23	66	28	36	4	●
D106-05-03250A1 AP30P1U	3.25		23	66	28	36	4	○
D106-05-03300A1 AP30P1U	3.3		23	66	28	36	4	●
D106-05-03400A1 AP30P1U	3.4		23	66	28	36	4	○
D106-05-03500A1 AP30P1U	3.5		23	66	28	36	4	●
D106-05-03572A1 AP30P1U	3.572	9/64"	23	66	28	36	4	○
D106-05-03600A1 AP30P1U	3.6		23	66	28	36	4	●
D106-05-03650A1 AP30P1U	3.65		23	66	28	36	4	○
D106-05-03700A1 AP30P1U	3.7		23	66	28	36	4	●
D106-05-03800A1 AP30P1U	3.8		29	74	36	36	4	○
D106-05-03900A1 AP30P1U	3.9		29	74	36	36	4	●
D106-05-03969A1 AP30P1U	3.969	5/32"	29	74	36	36	4	○
D106-05-04000A1 AP30P1U	4.0		29	74	36	36	4	●
D106-05-04100A1 AP30P1U	4.1		29	74	36	36	6	○
D106-05-04200A1 AP30P1U	4.2		29	74	36	36	6	●
D106-05-04300A1 AP30P1U	4.3		29	74	36	36	6	○
D106-05-04366A1 AP30P1U	4.366	11/64"	29	74	36	36	6	○
D106-05-04400A1 AP30P1U	4.4		29	74	36	36	6	○
D106-05-04500A1 AP30P1U	4.5		29	74	36	36	6	●
D106-05-04600A1 AP30P1U	4.6		29	74	36	36	6	○
D106-05-04650A1 AP30P1U	4.65		29	74	36	36	6	○
D106-05-04700A1 AP30P1U	4.7		29	74	36	36	6	○
D106-05-04763A1 AP30P1U	4.763	3/16"	35	82	44	36	6	○
D106-05-04800A1 AP30P1U	4.8		35	82	44	36	6	●
D106-05-04900A1 AP30P1U	4.9		35	82	44	36	6	●
D106-05-05000A1 AP30P1U	5.0		35	82	44	36	6	●
D106-05-05100A1 AP30P1U	5.1		35	82	44	36	6	●
D106-05-05159A1 AP30P1U	5.159	13/64"	35	82	44	36	6	○
D106-05-05200A1 AP30P1U	5.2		35	82	44	36	6	●
D106-05-05300A1 AP30P1U	5.3		35	82	44	36	6	○
D106-05-05400A1 AP30P1U	5.4		35	82	44	36	6	○
D106-05-05500A1 AP30P1U	5.5		35	82	44	36	6	●
D106-05-05550A1 AP30P1U	5.55		35	82	44	36	6	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

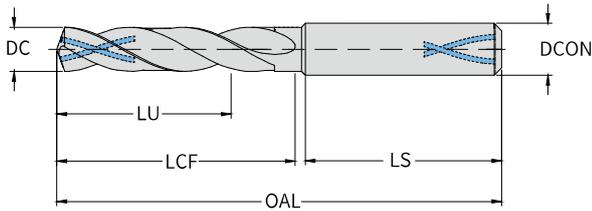
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D106 5xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-05556A1 AP30P1U	5.556	7/32"	35	82	44	36	6	○
D106-05-05600A1 AP30P1U	5.6		35	82	44	36	6	○
D106-05-05700A1 AP30P1U	5.7		35	82	44	36	6	○
D106-05-05750A1 AP30P1U	5.75		35	82	44	36	6	○
D106-05-05800A1 AP30P1U	5.8		35	82	44	36	6	●
D106-05-05900A1 AP30P1U	5.9		35	82	44	36	6	●
D106-05-05953A1 AP30P1U	5.953	15/64"	35	82	44	36	6	○
D106-05-06000A1 AP30P1U	6.0		35	82	44	36	6	●
D106-05-06100A1 AP30P1U	6.1		43	91	53	36	8	○
D106-05-06200A1 AP30P1U	6.2		43	91	53	36	8	○
D106-05-06300A1 AP30P1U	6.3		43	91	53	36	8	○
D106-05-06350A1 AP30P1U	6.35	1/4"	43	91	53	36	8	○
D106-05-06400A1 AP30P1U	6.4		43	91	53	36	8	○
D106-05-06500A1 AP30P1U	6.5		43	91	53	36	8	●
D106-05-06600A1 AP30P1U	6.6		43	91	53	36	8	○
D106-05-06700A1 AP30P1U	6.7		43	91	53	36	8	○
D106-05-06747A1 AP30P1U	6.747	17/64"	43	91	53	36	8	○
D106-05-06800A1 AP30P1U	6.8		43	91	53	36	8	●
D106-05-06900A1 AP30P1U	6.9		43	91	53	36	8	●
D106-05-07000A1 AP30P1U	7.0		43	91	53	36	8	●
D106-05-07100A1 AP30P1U	7.1		43	91	53	36	8	○
D106-05-07144A1 AP30P1U	7.144	9/32"	43	91	53	36	8	○
D106-05-07200A1 AP30P1U	7.2		43	91	53	36	8	○
D106-05-07250A1 AP30P1U	7.25		43	91	53	36	8	○
D106-05-07300A1 AP30P1U	7.3		43	91	53	36	8	○
D106-05-07400A1 AP30P1U	7.4		43	91	53	36	8	●
D106-05-07450A1 AP30P1U	7.45		43	91	53	36	8	○
D106-05-07500A1 AP30P1U	7.5		43	91	53	36	8	●
D106-05-07541A1 AP30P1U	7.541	19/64"	43	91	53	36	8	○
D106-05-07550A1 AP30P1U	7.55		43	91	53	36	8	○
D106-05-07600A1 AP30P1U	7.6		43	91	53	36	8	○
D106-05-07700A1 AP30P1U	7.7		43	91	53	36	8	○
D106-05-07800A1 AP30P1U	7.8		43	91	53	36	8	●
D106-05-07900A1 AP30P1U	7.9		43	91	53	36	8	●
D106-05-07938A1 AP30P1U	7.938	5/16"	43	91	53	36	8	○
D106-05-08000A1 AP30P1U	8.0		43	91	53	36	8	●
D106-05-08100A1 AP30P1U	8.1		49	103	61	40	10	○
D106-05-08200A1 AP30P1U	8.2		49	103	61	40	10	○
D106-05-08300A1 AP30P1U	8.3		49	103	61	40	10	○
D106-05-08334A1 AP30P1U	8.334	21/64"	49	103	61	40	10	○
D106-05-08400A1 AP30P1U	8.4		49	103	61	40	10	○
D106-05-08500A1 AP30P1U	8.5		49	103	61	40	10	●
D106-05-08600A1 AP30P1U	8.6		49	103	61	40	10	●
D106-05-08700A1 AP30P1U	8.7		49	103	61	40	10	○
D106-05-08731A1 AP30P1U	8.731	11/32"	49	103	61	40	10	○
D106-05-08750A1 AP30P1U	8.75		49	103	61	40	10	○
D106-05-08800A1 AP30P1U	8.8		49	103	61	40	10	●
D106-05-08900A1 AP30P1U	8.9		49	103	61	40	10	●

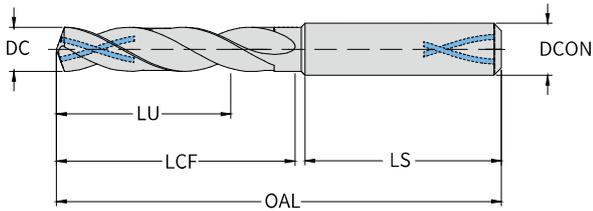
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D106 5xDc**

P	M	K	N	S	H
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•• 1st choice • 2nd choice



**5xDc**

**DIN 6537 L**

m7

140°

Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-09000A1 AP30P1U	9.0		49	103	61	40	10	●
D106-05-09100A1 AP30P1U	9.1		49	103	61	40	10	○
D106-05-09128A1 AP30P1U	9.128	23/64"	49	103	61	40	10	○
D106-05-09200A1 AP30P1U	9.2		49	103	61	40	10	○
D106-05-09300A1 AP30P1U	9.3		49	103	61	40	10	●
D106-05-09400A1 AP30P1U	9.4		49	103	61	40	10	○
D106-05-09500A1 AP30P1U	9.5		49	103	61	40	10	○
D106-05-09525A1 AP30P1U	9.525	3/8"	49	103	61	40	10	○
D106-05-09550A1 AP30P1U	9.55		49	103	61	40	10	○
D106-05-09600A1 AP30P1U	9.6		49	103	61	40	10	○
D106-05-09700A1 AP30P1U	9.7		49	103	61	40	10	○
D106-05-09800A1 AP30P1U	9.8		49	103	61	40	10	●
D106-05-09900A1 AP30P1U	9.9		49	103	61	40	10	●
D106-05-09922A1 AP30P1U	9.922	25/64"	49	103	61	40	10	○
D106-05-10000A1 AP30P1U	10.0		49	103	61	40	10	●
D106-05-10100A1 AP30P1U	10.1		56	118	71	45	12	●
D106-05-10200A1 AP30P1U	10.2		56	118	71	45	12	●
D106-05-10300A1 AP30P1U	10.3		56	118	71	45	12	●
D106-05-10319A1 AP30P1U	10.319	13/32"	56	118	71	45	12	○
D106-05-10400A1 AP30P1U	10.4		56	118	71	45	12	○
D106-05-10500A1 AP30P1U	10.5		56	118	71	45	12	●
D106-05-10600A1 AP30P1U	10.6		56	118	71	45	12	●
D106-05-10700A1 AP30P1U	10.7		56	118	71	45	12	○
D106-05-10716A1 AP30P1U	10.716	27/64"	56	118	71	45	12	○
D106-05-10800A1 AP30P1U	10.8		56	118	71	45	12	●
D106-05-10900A1 AP30P1U	10.9		56	118	71	45	12	○
D106-05-11000A1 AP30P1U	11.0		56	118	71	45	12	●
D106-05-11100A1 AP30P1U	11.1		56	118	71	45	12	○
D106-05-11113A1 AP30P1U	11.113	7/16"	56	118	71	45	12	○
D106-05-11200A1 AP30P1U	11.2		56	118	71	45	12	○
D106-05-11300A1 AP30P1U	11.3		56	118	71	45	12	○
D106-05-11400A1 AP30P1U	11.4		56	118	71	45	12	○
D106-05-11500A1 AP30P1U	11.5		56	118	71	45	12	○
D106-05-11509A1 AP30P1U	11.509	29/64"	56	118	71	45	12	○
D106-05-11550A1 AP30P1U	11.55		56	118	71	45	12	○
D106-05-11600A1 AP30P1U	11.6		56	118	71	45	12	○
D106-05-11700A1 AP30P1U	11.7		56	118	71	45	12	○
D106-05-11800A1 AP30P1U	11.8		56	118	71	45	12	●
D106-05-11900A1 AP30P1U	11.9		56	118	71	45	12	○
D106-05-11906A1 AP30P1U	11.906	15/32"	56	118	71	45	12	○
D106-05-12000A1 AP30P1U	12.0		56	118	71	45	12	●
D106-05-12100A1 AP30P1U	12.1		60	124	77	45	14	○
D106-05-12200A1 AP30P1U	12.2		60	124	77	45	14	○
D106-05-12250A1 AP30P1U	12.25		60	124	77	45	14	○

Special product can be ordered

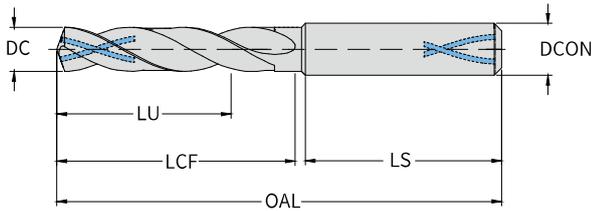
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D106 5xDc

P	M	K	N	S	H
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•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D106-05-12300A1 AP30P1U	12.3		60	124	77	45	14	○
D106-05-12303A1 AP30P1U	12.303	31/64"	60	124	77	45	14	○
D106-05-12400A1 AP30P1U	12.4		60	124	77	45	14	○
D106-05-12500A1 AP30P1U	12.5		60	124	77	45	14	●
D106-05-12600A1 AP30P1U	12.6		60	124	77	45	14	○
D106-05-12700A1 AP30P1U	12.7	1/2"	60	124	77	45	14	○
D106-05-12750A1 AP30P1U	12.75		60	124	77	45	14	○
D106-05-12800A1 AP30P1U	12.8		60	124	77	45	14	○
D106-05-12900A1 AP30P1U	12.9		60	124	77	45	14	○
D106-05-13000A1 AP30P1U	13.0		60	124	77	45	14	●
D106-05-13100A1 AP30P1U	13.1		60	124	77	45	14	○
D106-05-13200A1 AP30P1U	13.2		60	124	77	45	14	●
D106-05-13300A1 AP30P1U	13.3		60	124	77	45	14	○
D106-05-13400A1 AP30P1U	13.4		60	124	77	45	14	○
D106-05-13494A1 AP30P1U	13.494	17/32"	60	124	77	45	14	○
D106-05-13500A1 AP30P1U	13.5		60	124	77	45	14	○
D106-05-13600A1 AP30P1U	13.6		60	124	77	45	14	○
D106-05-13700A1 AP30P1U	13.7		60	124	77	45	14	●
D106-05-13800A1 AP30P1U	13.8		60	124	77	45	14	○
D106-05-13900A1 AP30P1U	13.9		60	124	77	45	14	○
D106-05-14000A1 AP30P1U	14.0		60	124	77	45	14	●
D106-05-14100A1 AP30P1U	14.1		63	133	83	48	16	●
D106-05-14200A1 AP30P1U	14.2		63	133	83	48	16	●
D106-05-14288A1 AP30P1U	14.288	9/16"	63	133	83	48	16	○
D106-05-14300A1 AP30P1U	14.3		63	133	83	48	16	○
D106-05-14400A1 AP30P1U	14.4		63	133	83	48	16	○
D106-05-14500A1 AP30P1U	14.5		63	133	83	48	16	●
D106-05-14600A1 AP30P1U	14.6		63	133	83	48	16	●
D106-05-14700A1 AP30P1U	14.7		63	133	83	48	16	●
D106-05-14750A1 AP30P1U	14.75		63	133	83	48	16	○
D106-05-14800A1 AP30P1U	14.8		63	133	83	48	16	○
D106-05-15000A1 AP30P1U	15.0		63	133	83	48	16	●
D106-05-15100A1 AP30P1U	15.1		63	133	83	48	16	○
D106-05-15200A1 AP30P1U	15.2		63	133	83	48	16	○
D106-05-15300A1 AP30P1U	15.3		63	133	83	48	16	○
D106-05-15500A1 AP30P1U	15.5		63	133	83	48	16	●
D106-05-15600A1 AP30P1U	15.6		63	133	83	48	16	○
D106-05-15700A1 AP30P1U	15.7		63	133	83	48	16	●
D106-05-15800A1 AP30P1U	15.8		63	133	83	48	16	●
D106-05-15875A1 AP30P1U	15.875	5/8"	63	133	83	48	16	○
D106-05-15900A1 AP30P1U	15.9		63	133	83	48	16	○
D106-05-16000A1 AP30P1U	16.0		63	133	83	48	16	●

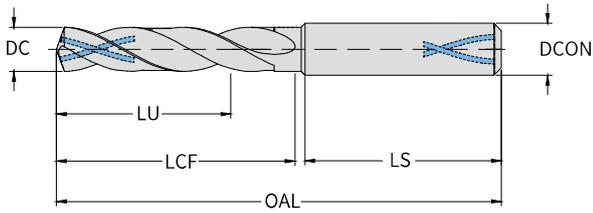
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D108 8xDc**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D108-08-03000A1	3.0		28	74	34	36	4	●
D108-08-03100A1	3.1		28	74	34	36	4	●
D108-08-03175A1	3.175	1/8"	28	74	34	36	4	○
D108-08-03200A1	3.2		28	74	34	36	4	●
D108-08-03300A1	3.3		28	74	34	36	4	●
D108-08-03400A1	3.4		28	74	34	36	4	●
D108-08-03500A1	3.5		28	74	34	36	4	●
D108-08-03572A1	3.572	9/64"	28	74	34	36	4	○
D108-08-03600A1	3.6		28	74	34	36	4	●
D108-08-03700A1	3.7		28	74	34	36	4	●
D108-08-03800A1	3.8		35	81	42	36	4	●
D108-08-03900A1	3.9		35	81	42	36	4	●
D108-08-03969A1	3.969	5/32"	35	81	42	36	4	○
D108-08-04000A1	4.0		35	81	42	36	4	●
D108-08-04100A1	4.1		35	81	42	36	6	●
D108-08-04200A1	4.2		35	81	42	36	6	●
D108-08-04300A1	4.3		37	81	44	36	6	●
D108-08-04366A1	4.366	11/64"	37	81	44	36	6	○
D108-08-04400A1	4.4		37	81	44	36	6	●
D108-08-04500A1	4.5		37	81	44	36	6	●
D108-08-04600A1	4.6		37	81	44	36	6	●
D108-08-04700A1	4.7		37	81	44	36	6	●
D108-08-04763A1	4.763	3/16"	43	97	52	36	6	○
D108-08-04800A1	4.8		43	97	52	36	6	●
D108-08-04900A1	4.9		43	97	52	36	6	●
D108-08-05000A1	5.0		45	97	55	36	6	●
D108-08-05100A1	5.1		45	97	55	36	6	●
D108-08-05159A1	5.159	13/64"	45	97	55	36	6	○
D108-08-05200A1	5.2		45	97	55	36	6	●
D108-08-05300A1	5.3		45	97	55	36	6	●
D108-08-05400A1	5.4		48	97	57	36	6	●
D108-08-05500A1	5.5		48	97	57	36	6	●
D108-08-05556A1	5.556	7/32"	48	97	57	36	6	●
D108-08-05600A1	5.6		48	97	57	36	6	●
D108-08-05700A1	5.7		48	97	57	36	6	●
D108-08-05800A1	5.8		48	97	57	36	6	●
D108-08-05900A1	5.9		48	97	57	36	6	●
D108-08-05953A1	5.953	15/64"	48	97	57	36	6	○
D108-08-06000A1	6.0		48	97	57	36	6	●
D108-08-06100A1	6.1		53	106	64	36	8	●
D108-08-06200A1	6.2		53	106	64	36	8	●

Special product can be ordered

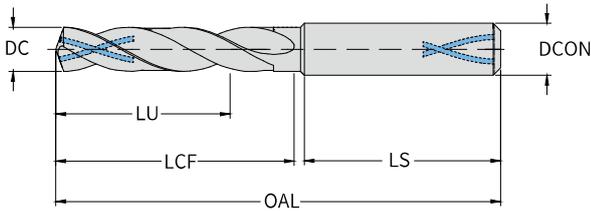
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D108 8xDc

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D108-08-06300A1	6.3		53	106	64	36	8	●
D108-08-06350A1	6.35	1/4"	54	106	66	36	8	●
D108-08-06400A1	6.4		54	106	66	36	8	●
D108-08-06500A1	6.5		55	106	66	36	8	●
D108-08-06600A1	6.6		55	106	66	36	8	●
D108-08-06700A1	6.7		55	106	66	36	8	●
D108-08-06747A1	6.747	17/64"	55	106	66	36	8	○
D108-08-06800A1	6.8		55	106	66	36	8	●
D108-08-06900A1	6.9		55	106	66	36	8	●
D108-08-07000A1	7.0		55	106	66	36	8	●
D108-08-07100A1	7.1		60	116	74	36	8	●
D108-08-07144A1	7.144	9/32"	60	116	74	36	8	○
D108-08-07200A1	7.2		62	116	74	36	8	●
D108-08-07300A1	7.3		62	116	74	36	8	●
D108-08-07400A1	7.4		62	116	74	36	8	●
D108-08-07500A1	7.5		64	116	76	36	8	●
D108-08-07541A1	7.541	19/64"	64	116	76	36	8	○
D108-08-07600A1	7.6		64	116	76	36	8	●
D108-08-07700A1	7.7		64	116	76	36	8	●
D108-08-07800A1	7.8		64	116	76	36	8	●
D108-08-07900A1	7.9		64	116	76	36	8	●
D108-08-07938A1	7.938	5/16"	64	116	76	36	8	○
D108-08-08000A1	8.0		64	116	76	36	8	●
D108-08-08100A1	8.1		70	139	88	40	10	●
D108-08-08200A1	8.2		70	139	88	40	10	●
D108-08-08300A1	8.3		72	139	88	40	10	●
D108-08-08334A1	8.334	21/64"	72	139	88	40	10	○
D108-08-08400A1	8.4		72	139	88	40	10	●
D108-08-08500A1	8.5		72	139	88	40	10	●
D108-08-08600A1	8.6		72	139	88	40	10	●
D108-08-08700A1	8.7		74	139	90	40	10	●
D108-08-08731A1	8.731	11/32"	74	139	90	40	10	○
D108-08-08800A1	8.8		74	139	90	40	10	●
D108-08-08900A1	8.9		76	139	92	40	10	●
D108-08-09000A1	9.0		76	139	92	40	10	●
D108-08-09100A1	9.1		78	139	95	40	10	●
D108-08-09128A1	9.128	23/64"	78	139	95	40	10	○
D108-08-09200A1	9.2		80	139	95	40	10	●
D108-08-09300A1	9.3		80	139	95	40	10	●

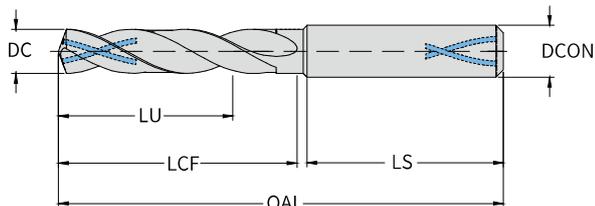
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D108 8xDc**

P	M	K	N	S	H
••	•	••	••	•	•

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D108-08-09400A1	9.4		80	139	95	40	10	●
D108-08-09500A1	9.5		80	139	95	40	10	●
D108-08-09525A1	9.525	3/8"	80	139	95	40	10	●
D108-08-09600A1	9.6		80	139	95	40	10	●
D108-08-09700A1	9.7		80	139	95	40	10	●
D108-08-09800A1	9.8		80	139	95	40	10	●
D108-08-09900A1	9.9		80	139	95	40	10	●
D108-08-09922A1	9.922	25/64"	80	139	95	40	10	○
D108-08-10000A1	10.0		80	139	95	40	10	●
D108-08-10100A1	10.1		88	163	108	45	12	●
D108-08-10200A1	10.2		88	163	108	45	12	●
D108-08-10300A1	10.3		88	163	108	45	12	●
D108-08-10319A1	10.319	13/32"	88	163	108	45	12	○
D108-08-10400A1	10.4		90	163	110	45	12	●
D108-08-10500A1	10.5		90	163	110	45	12	●
D108-08-10700A1	10.7		90	163	110	45	12	●
D108-08-10716A1	10.716	27/64"	92	163	110	45	12	○
D108-08-10800A1	10.8		92	163	110	45	12	●
D108-08-10900A1	10.9		94	163	112	45	12	●
D108-08-11000A1	11.0		94	163	112	45	12	●
D108-08-11100A1	11.1		94	163	112	45	12	●
D108-08-11113A1	11.113	7/16"	94	163	112	45	12	○
D108-08-11200A1	11.2		96	163	114	45	12	●
D108-08-11300A1	11.3		96	163	114	45	12	●
D108-08-11500A1	11.5		96	163	114	45	12	●
D108-08-11600A1	11.6		96	163	114	45	12	●
D108-08-11700A1	11.7		96	163	114	45	12	●
D108-08-11800A1	11.8		96	163	114	45	12	●
D108-08-11900A1	11.9		96	163	114	45	12	●
D108-08-11906A1	11.906	15/32"	96	163	114	45	12	○
D108-08-12000A1	12.0		96	163	114	45	12	●
D108-08-12303A1	12.303	31/64"	106	182	125	45	14	○
D108-08-12500A1	12.5		106	182	125	45	14	●
D108-08-12700A1	12.7	1/2"	106	182	125	45	14	○
D108-08-13000A1	13.0		110	182	130	45	14	●
D108-08-13494A1	13.494	17/32"	115	182	133	45	14	○
D108-08-13500A1	13.5		115	182	133	45	14	●
D108-08-14000A1	14.0		119	182	133	45	14	●
D108-08-14288A1	14.288	9/16"	122	204	140	48	16	○
D108-08-14500A1	14.5		124	204	140	48	16	●
D108-08-15000A1	15.0		128	204	143	48	16	●
D108-08-15500A1	15.5		132	204	150	48	16	●
D108-08-15875A1	15.875	5/8"	134	204	150	48	16	○
D108-08-16000A1	16.0		136	204	152	48	16	●

Special product can be ordered

● : Standard stock ○ : Made-to-Order

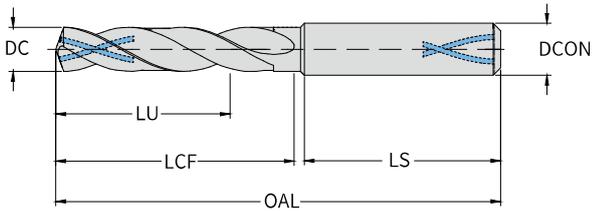
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D151 3xDc

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-03-03000A1	3.0		14	62	20	36	4	●
D151-03-03100A1	3.1		14	62	20	36	4	○
D151-03-03175A1	3.175	1/8"	14	62	20	36	4	○
D151-03-03200A1	3.2		14	62	20	36	4	●
D151-03-03250A1	3.25		14	62	20	36	4	○
D151-03-03300A1	3.3		14	62	20	36	4	●
D151-03-03400A1	3.4		14	62	20	36	4	○
D151-03-03500A1	3.5		14	62	20	36	4	●
D151-03-03572A1	3.572	9/64"	14	62	20	36	4	○
D151-03-03600A1	3.6		14	62	20	36	4	○
D151-03-03700A1	3.7		14	62	20	36	4	●
D151-03-03800A1	3.8		17	66	24	36	4	○
D151-03-03900A1	3.9		17	66	24	36	4	○
D151-03-03969A1	3.969	5/32"	17	66	24	36	4	○
D151-03-04000A1	4.0		17	66	24	36	4	●
D151-03-04100A1	4.1		17	66	24	36	6	○
D151-03-04200A1	4.2		17	66	24	36	6	●
D151-03-04300A1	4.3		17	66	24	36	6	○
D151-03-04366A1	4.366	11/64"	17	66	24	36	6	○
D151-03-04400A1	4.4		17	66	24	36	6	○
D151-03-04500A1	4.5		17	66	24	36	6	●
D151-03-04600A1	4.6		17	66	24	36	6	○
D151-03-04650A1	4.65		17	66	24	36	6	○
D151-03-04700A1	4.7		17	66	24	36	6	○
D151-03-04763A1	4.763	3/16"	20	66	28	36	6	○
D151-03-04800A1	4.8		20	66	28	36	6	○
D151-03-04900A1	4.9		20	66	28	36	6	●
D151-03-05000A1	5.0		20	66	28	36	6	●
D151-03-05100A1	5.1		20	66	28	36	6	○
D151-03-05159A1	5.159	13/64"	20	66	28	36	6	○
D151-03-05200A1	5.2		20	66	28	36	6	○
D151-03-05300A1	5.3		20	66	28	36	6	○
D151-03-05400A1	5.4		20	66	28	36	6	○
D151-03-05500A1	5.5		20	66	28	36	6	●
D151-03-05550A1	5.55		20	66	28	36	6	○
D151-03-05556A1	5.556	7/32"	20	66	28	36	6	○
D151-03-05600A1	5.6		20	66	28	36	6	○
D151-03-05700A1	5.7		20	66	28	36	6	○
D151-03-05800A1	5.8		20	66	28	36	6	○
D151-03-05900A1	5.9		20	66	28	36	6	○
D151-03-05953A1	5.953	15/64"	20	66	28	36	6	○
D151-03-06000A1	6.0		20	66	28	36	6	●
D151-03-06100A1	6.1		24	79	34	36	8	○
D151-03-06200A1	6.2		24	79	34	36	8	○
D151-03-06300A1	6.3		24	79	34	36	8	○
D151-03-06350A1	6.35	1/4"	24	79	34	36	8	○
D151-03-06400A1	6.4		24	79	34	36	8	○
D151-03-06500A1	6.5		24	79	34	36	8	●

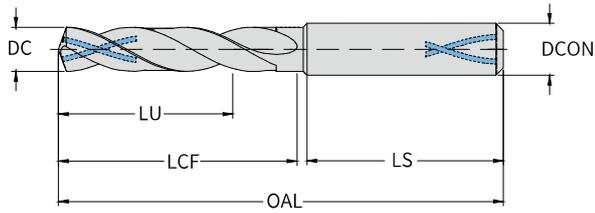
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D151 3xDc**

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-03-06600A1	6.6		24	79	34	36	8	○
D151-03-06700A1	6.7		24	79	34	36	8	○
D151-03-06747A1	6.747	17/64"	24	79	34	36	8	○
D151-03-06800A1	6.8		24	79	34	36	8	●
D151-03-06900A1	6.9		24	79	34	36	8	○
D151-03-07000A1	7.0		24	79	34	36	8	●
D151-03-07100A1	7.1		29	79	41	36	8	○
D151-03-07144A1	7.144	9/32"	29	79	41	36	8	○
D151-03-07200A1	7.2		29	79	41	36	8	○
D151-03-07300A1	7.3		29	79	41	36	8	○
D151-03-07400A1	7.4		29	79	41	36	8	○
D151-03-07500A1	7.5		29	79	41	36	8	●
D151-03-07541A1	7.541	19/64"	29	79	41	36	8	○
D151-03-07600A1	7.6		29	79	41	36	8	○
D151-03-07700A1	7.7		29	79	41	36	8	○
D151-03-07800A1	7.8		29	79	41	36	8	●
D151-03-07900A1	7.9		29	79	41	36	8	○
D151-03-07938A1	7.938	5/16"	29	79	41	36	8	○
D151-03-08000A1	8.0		29	79	41	36	8	●
D151-03-08100A1	8.1		35	89	47	40	10	○
D151-03-08200A1	8.2		35	89	47	40	10	○
D151-03-08300A1	8.3		35	89	47	40	10	○
D151-03-08334A1	8.334	21/64"	35	89	47	40	10	○
D151-03-08400A1	8.4		35	89	47	40	10	○
D151-03-08500A1	8.5		35	89	47	40	10	●
D151-03-08600A1	8.6		35	89	47	40	10	○
D151-03-08700A1	8.7		35	89	47	40	10	○
D151-03-08731A1	8.731	11/32"	35	89	47	40	10	○
D151-03-08800A1	8.8		35	89	47	40	10	○
D151-03-08900A1	8.9		35	89	47	40	10	○
D151-03-09000A1	9.0		35	89	47	40	10	●
D151-03-09100A1	9.1		35	89	47	40	10	○
D151-03-09128A1	9.128	23/64"	35	89	47	40	10	○
D151-03-09200A1	9.2		35	89	47	40	10	○
D151-03-09300A1	9.3		35	89	47	40	10	○
D151-03-09400A1	9.4		35	89	47	40	10	○
D151-03-09500A1	9.5		35	89	47	40	10	●
D151-03-09525A1	9.525	3/8"	35	89	47	40	10	○
D151-03-09600A1	9.6		35	89	47	40	10	○
D151-03-09700A1	9.7		35	89	47	40	10	○
D151-03-09800A1	9.8		35	89	47	40	10	○
D151-03-09900A1	9.9		35	89	47	40	10	○
D151-03-09922A1	9.922	25/64"	35	89	47	40	10	○
D151-03-10000A1	10.0		35	89	47	40	10	●
D151-03-10100A1	10.1		40	102	55	45	12	○
D151-03-10200A1	10.2		40	102	55	45	12	●
D151-03-10300A1	10.3		40	102	55	45	12	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

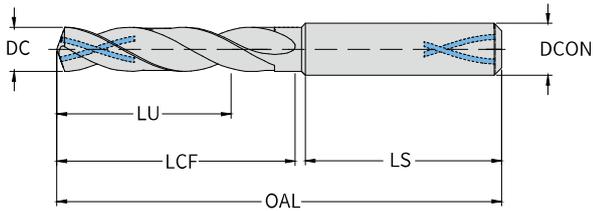
Solid Carbide Drill

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D151 3xDc

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-03-10319A1	10.319	13/32"	40	102	55	45	12	○
D151-03-10400A1	10.4		40	102	55	45	12	○
D151-03-10500A1	10.5		40	102	55	45	12	●
D151-03-10600A1	10.6		40	102	55	45	12	○
D151-03-10700A1	10.7		40	102	55	45	12	○
D151-03-10716A1	10.716	27/64"	40	102	55	45	12	○
D151-03-10800A1	10.8		40	102	55	45	12	●
D151-03-10900A1	10.9		40	102	55	45	12	○
D151-03-11000A1	11.0		40	102	55	45	12	●
D151-03-11100A1	11.1		40	102	55	45	12	○
D151-03-11113A1	11.113		40	102	55	45	12	○
D151-03-11200A1	11.2		40	102	55	45	12	○
D151-03-11300A1	11.3		40	102	55	45	12	○
D151-03-11400A1	11.4		40	102	55	45	12	○
D151-03-11500A1	11.5		40	102	55	45	12	●
D151-03-11509A1	11.509	29/64"	40	102	55	45	12	○
D151-03-11600A1	11.6		40	102	55	45	12	○
D151-03-11700A1	11.7		40	102	55	45	12	○
D151-03-11800A1	11.8		40	102	55	45	12	○
D151-03-11900A1	11.9		40	102	55	45	12	○
D151-03-12000A1	12.0		40	102	55	45	12	●
D151-03-12100A1	12.1		43	107	60	45	14	○
D151-03-12200A1	12.2		43	107	60	45	14	○
D151-03-12300A1	12.3		43	107	60	45	14	○
D151-03-12303A1	12.303	31/64"	43	107	60	45	14	○
D151-03-12500A1	12.5		43	107	60	45	14	●
D151-03-12600A1	12.6		43	107	60	45	14	○
D151-03-12700A1	12.7	1/2"	43	107	60	45	14	○
D151-03-12900A1	12.9		43	107	60	45	14	○
D151-03-13000A1	13.0		43	107	60	45	14	●
D151-03-13100A1	13.1		43	107	60	45	14	○
D151-03-13300A1	13.3		43	107	60	45	14	○
D151-03-13494A1	13.494	17/32"	43	107	60	45	14	○
D151-03-13500A1	13.5		43	107	60	45	14	●
D151-03-13800A1	13.8		43	107	60	45	14	○
D151-03-14000A1	14.0		43	107	60	45	14	●
D151-03-14200A1	14.2		45	115	65	48	16	○
D151-03-14288A1	14.288	9/16"	45	115	65	48	16	○
D151-03-14500A1	14.5		45	115	65	48	16	○
D151-03-14750A1	14.75		45	115	65	48	16	○
D151-03-15000A1	15.0		45	115	65	48	16	○
D151-03-15100A1	15.1		45	115	65	48	16	○
D151-03-15200A1	15.2		45	115	65	48	16	○
D151-03-15300A1	15.3		45	115	65	48	16	○
D151-03-15500A1	15.5		45	115	65	48	16	○
D151-03-15800A1	15.8		45	115	65	48	16	○
D151-03-16000A1	16.0		45	115	65	48	16	○

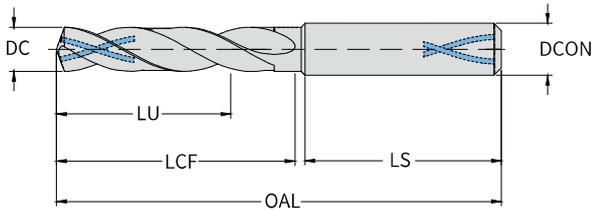
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D151 5xDc**

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-05-03000A1	3.0		19	66	24	36	4	●
D151-05-03100A1	3.1		19	66	24	36	4	○
D151-05-03175A1	3.175	1/8"	19	66	24	36	4	○
D151-05-03200A1	3.2		19	66	24	36	4	○
D151-05-03250A1	3.25		19	66	24	36	4	○
D151-05-03300A1	3.3		19	66	24	36	4	●
D151-05-03400A1	3.4		19	66	24	36	4	○
D151-05-03500A1	3.5		19	66	24	36	4	●
D151-05-03572A1	3.572	9/64"	19	66	24	36	4	○
D151-05-03600A1	3.6		19	66	24	36	4	○
D151-05-03700A1	3.7		19	66	24	36	4	●
D151-05-03800A1	3.8		29	74	36	36	4	○
D151-05-03900A1	3.9		29	74	36	36	4	○
D151-05-03969A1	3.969	5/32"	29	74	36	36	4	○
D151-05-04000A1	4.0		29	74	36	36	4	●
D151-05-04100A1	4.1		29	74	36	36	6	○
D151-05-04200A1	4.2		29	74	36	36	6	●
D151-05-04300A1	4.3		29	74	36	36	6	○
D151-05-04366A1	4.366	11/64"	29	74	36	36	6	○
D151-05-04400A1	4.4		29	74	36	36	6	○
D151-05-04500A1	4.5		29	74	36	36	6	●
D151-05-04600A1	4.6		29	74	36	36	6	○
D151-05-04650A1	4.65		29	74	36	36	6	○
D151-05-04700A1	4.7		29	74	36	36	6	○
D151-05-04763A1	4.763	3/16"	35	82	44	36	6	○
D151-05-04800A1	4.8		35	82	44	36	6	○
D151-05-04900A1	4.9		35	82	44	36	6	●
D151-05-05000A1	5.0		35	82	44	36	6	●
D151-05-05100A1	5.1		35	82	44	36	6	○
D151-05-05159A1	5.159	13/64"	35	82	44	36	6	○
D151-05-05200A1	5.2		35	82	44	36	6	○
D151-05-05300A1	5.3		35	82	44	36	6	○
D151-05-05400A1	5.4		35	82	44	36	6	○
D151-05-05500A1	5.5		35	82	44	36	6	●
D151-05-05550A1	5.55		35	82	44	36	6	○
D151-05-05556A1	5.556	7/32"	35	82	44	36	6	○
D151-05-05600A1	5.6		35	82	44	36	6	○
D151-05-05700A1	5.7		35	82	44	36	6	○
D151-05-05800A1	5.8		35	82	44	36	6	○
D151-05-05900A1	5.9		35	82	44	36	6	○
D151-05-05953A1	5.953	15/64"	35	82	44	36	6	○
D151-05-06000A1	6.0		35	82	44	36	6	●
D151-05-06100A1	6.1		43	91	53	36	8	○
D151-05-06200A1	6.2		43	91	53	36	8	○
D151-05-06300A1	6.3		43	91	53	36	8	○
D151-05-06350A1	6.35	1/4"	43	91	53	36	8	○
D151-05-06400A1	6.4		43	91	53	36	8	○
D151-05-06500A1	6.5		43	91	53	36	8	●

Special product can be ordered

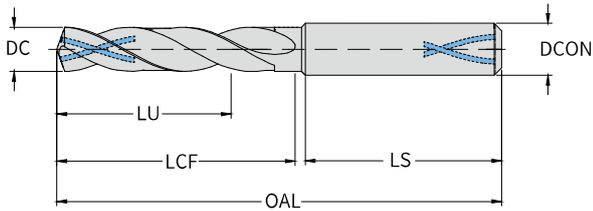
● : Standard stock ○ : Made-to-Order

# Hole Making Solid Carbide Drill

## Solid Carbide Internal Coolant Drill D151 5xDc

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-05-06600A1	6.6		43	91	53	36	8	●
D151-05-06700A1	6.7		43	91	53	36	8	○
D151-05-06747A1	6.747	17/64"	43	91	53	36	8	○
D151-05-06800A1	6.8		43	91	53	36	8	●
D151-05-06900A1	6.9		43	91	53	36	8	○
D151-05-07000A1	7.0		43	91	53	36	8	●
D151-05-07100A1	7.1		43	91	53	36	8	○
D151-05-07144A1	7.144	9/32"	43	91	53	36	8	○
D151-05-07200A1	7.2		43	91	53	36	8	○
D151-05-07300A1	7.3		43	91	53	36	8	○
D151-05-07400A1	7.4		43	91	53	36	8	○
D151-05-07500A1	7.5		43	91	53	36	8	●
D151-05-07541A1	7.541	19/64"	43	91	53	36	8	○
D151-05-07600A1	7.6		43	91	53	36	8	○
D151-05-07700A1	7.7		43	91	53	36	8	○
D151-05-07800A1	7.8		43	91	53	36	8	●
D151-05-07900A1	7.9		43	91	53	36	8	○
D151-05-07938A1	7.938	5/16"	43	91	53	36	8	○
D151-05-08000A1	8.0		43	91	53	36	8	●
D151-05-08100A1	8.1		49	103	61	40	10	○
D151-05-08200A1	8.2		49	103	61	40	10	○
D151-05-08300A1	8.3		49	103	61	40	10	○
D151-05-08334A1	8.334	21/64"	49	103	61	40	10	○
D151-05-08400A1	8.4		49	103	61	40	10	○
D151-05-08500A1	8.5		49	103	61	40	10	●
D151-05-08600A1	8.6		49	103	61	40	10	○
D151-05-08700A1	8.7		49	103	61	40	10	○
D151-05-08731A1	8.731	11/32"	49	103	61	40	10	○
D151-05-08800A1	8.8		49	103	61	40	10	○
D151-05-08900A1	8.9		49	103	61	40	10	○
D151-05-09000A1	9.0		49	103	61	40	10	●
D151-05-09100A1	9.1		49	103	61	40	10	○
D151-05-09128A1	9.128	23/64"	49	103	61	40	10	○
D151-05-09200A1	9.2		49	103	61	40	10	○
D151-05-09300A1	9.3		49	103	61	40	10	●
D151-05-09400A1	9.4		49	103	61	40	10	○
D151-05-09500A1	9.5		49	103	61	40	10	●
D151-05-09525A1	9.525	3/8"	49	103	61	40	10	○
D151-05-09600A1	9.6		49	103	61	40	10	○
D151-05-09700A1	9.7		49	103	61	40	10	○
D151-05-09800A1	9.8		49	103	61	40	10	○
D151-05-09900A1	9.9		49	103	61	40	10	○
D151-05-09922A1	9.922	25/64"	49	103	61	40	10	○
D151-05-10000A1	10.0		49	103	61	40	10	●
D151-05-10100A1	10.1		56	118	71	45	12	○
D151-05-10200A1	10.2		56	118	71	45	12	●
D151-05-10300A1	10.3		56	118	71	45	12	○

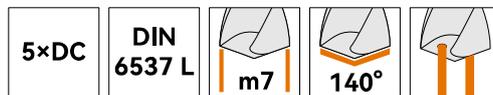
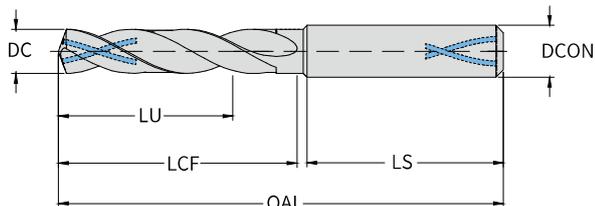
Special product can be ordered

● : Standard stock ○ : Made-to-Order

**Solid Carbide Internal Coolant Drill D151 5xDc**

P	M	K	N	S	H
•	••	•	••	••	

•• 1st choice • 2nd choice



Product code	DC(m7) mm	DC inch/No.	LU mm	OAL mm	LCF mm	LS mm	DCON(h6) mm	Stock
D151-05-10319A1	10.319	13/32"	56	118	71	45	12	○
D151-05-10400A1	10.4		56	118	71	45	12	○
D151-05-10500A1	10.5		56	118	71	45	12	●
D151-05-10600A1	10.6		56	118	71	45	12	●
D151-05-10700A1	10.7		56	118	71	45	12	○
D151-05-10716A1	10.716	27/64"	56	118	71	45	12	○
D151-05-10800A1	10.8		56	118	71	45	12	○
D151-05-10900A1	10.9		56	118	71	45	12	○
D151-05-11000A1	11.0		56	118	71	45	12	●
D151-05-11100A1	11.1		56	118	71	45	12	○
D151-05-11113A1	11.113	7/16"	56	118	71	45	12	○
D151-05-11200A1	11.2		56	118	71	45	12	○
D151-05-11300A1	11.3		56	118	71	45	12	○
D151-05-11400A1	11.4		56	118	71	45	12	○
D151-05-11500A1	11.5		56	118	71	45	12	●
D151-05-11509A1	11.509	29/64"	56	118	71	45	12	○
D151-05-11600A1	11.6		56	118	71	45	12	○
D151-05-11700A1	11.7		56	118	71	45	12	○
D151-05-11800A1	11.8		56	118	71	45	12	○
D151-05-11900A1	11.9		56	118	71	45	12	○
D151-05-12000A1	12.0		56	118	71	45	12	●
D151-05-12100A1	12.1		60	124	77	45	14	○
D151-05-12200A1	12.2		60	124	77	45	14	○
D151-05-12300A1	12.3		60	124	77	45	14	○
D151-05-12303A1	12.303	31/64"	60	124	77	45	14	○
D151-05-12500A1	12.5		60	124	77	45	14	●
D151-05-12600A1	12.6		60	124	77	45	14	○
D151-05-12700A1	12.7	1/2"	60	124	77	45	14	○
D151-05-12800A1	12.8		60	124	77	45	14	○
D151-05-13000A1	13.0		60	124	77	45	14	●
D151-05-13100A1	13.1		60	124	77	45	14	○
D151-05-13300A1	13.3		60	124	77	45	14	○
D151-05-13494A1	13.494	17/32"	60	124	77	45	14	○
D151-05-13500A1	13.5		60	124	77	45	14	●
D151-05-13800A1	13.8		60	124	77	45	14	○
D151-05-14000A1	14.0		60	124	77	45	14	●
D151-05-14200A1	14.2		62	133	83	48	16	○
D151-05-14288A1	14.288	9/16"	62	133	83	48	16	○
D151-05-14400A1	14.4		62	133	83	48	16	○
D151-05-14500A1	14.5		62	133	83	48	16	○
D151-05-14800A1	14.8		62	133	83	48	16	○
D151-05-15000A1	15.0		62	133	83	48	16	○
D151-05-15100A1	15.1		62	133	83	48	16	○
D151-05-15300A1	15.3		62	133	83	48	16	○
D151-05-15500A1	15.5		62	133	83	48	16	○
D151-05-15800A1	15.8		62	133	83	48	16	○
D151-05-16000A1	16.0		62	133	83	48	16	○

Special product can be ordered

● : Standard stock ○ : Made-to-Order

Solid Carbide Drill

## Cutting Data for Solid Carbide Drill Family

Vc=Cutting speed (m/min) Feed code = feed reference table see page 594				Drilling depth		3xDc										
																
				Product family		D105	D105	D106	D106	D151						
				Dia. Range (mm)		3.00-20.00	3.00-20.00	3.00-20.00	3.00-16.00	3.00-16.00						
				Coolant		External coolant	Internal coolant	External coolant	Internal coolant	Internal coolant						
Workpiece material				Brinell hardness (HB)	Tensile strength (N/mm <sup>2</sup> )	Vc	Feed code	Vc	Feed code	Vc	Feed code	Vc	Feed code	Vc	Feed code	
<b>P</b>	Unalloyed steel	C ≤ 0.25%	Annealed	125	430	100-110	F	110-120	F	100-110	F	110-120	F	110-120	F	
		C > 0.25... ≤ 0.55%	Annealed	190	640	80-100	E	100-110	E	80-100	E	100-110	E	100-120	E	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	80-100	E	100-110	E	80-100	E	100-110	E	100-110	E	
		C > 0.55%	Annealed	190	640	90-100	E	100-110	E	90-100	E	100-110	E	100-120	E	
		C > 0.55%	Heat-treated	300	1010	70-80	D	80-90	D	70-80	D	80-90	D	80-90	D	
		Free cutting steel (short-chipping)	Annealed	220	750	100-120	F	110-120	F	100-120	F	110-120	F	110-120	F	
	Low-alloyed steel	Annealed		175	590	80-100	E	80-110	E	80-100	E	80-110	E	70-100	E	
		Heat-treated		285	960	70-90	D	70-90	D	70-90	D	70-90	D	70-90	D	
		Heat-treated		380	1280	40-50	C	40-50	C	40-50	C	40-50	C			
		Heat-treated		430	1480	35-45	B	35-45	B	35-45	B	35-45	B			
	High-alloyed steel and high-alloyed tool steel	Annealed		200	680	75-85	D	75-85	D	75-85	D	75-85	D	75-85	D	
		Hardened and tempered		300	1010	60-70	C	60-70	C	60-70	C	60-70	C	60-70	C	
		Hardened and tempered		380	1280	50-60	C	50-60	C	50-60	C	50-60	C			
	Stainless steel	Ferritic/martensitic, annealed		200	680	70-80	D	80-90	D	70-80	D	80-90	D	70-100	D	
		Martensitic, heat-treated		330	1110			45-60	C	40-50	C	45-60	C	50-60	C	
<b>M</b>	Stainless steel	Austenitic, quench hardened		200	680			40-50	C	35-45	C	40-50	C	50-60	C	
		Austenitic, precipitation hardened (PH)		300	1010			40-50	C	35-45	C	40-50	C	50-60	C	
		Austenitic/ferritic, duplex		230	780			30-40	B			30-40	B	30-40	B	
<b>K</b>	Malleable cast iron	Ferritic		200	400	110-130	G	120-130	G	110-130	G	120-130	G	120-130	G	
		Pearlitic		260	700	85-100	G	90-110	G	85-100	G	90-110	G	90-110	G	
	Grey cast iron	Low tensile strength		180	200	110-120	H	120-130	H	110-120	H	120-130	H	120-130	H	
		High tensile strength/austenitic		245	350	80-100	G	90-110	G	80-100	G	90-110	G	90-110	G	
	Cast iron with spheroidal graphite	Ferritic		155	400	110-120	G	120-130	H	110-120	G	120-130	H	120-130	H	
		Pearlitic		245	700	60-80	F	60-80	F	60-80	F	60-80	F	60-80	F	
	GGV (CGI)		230	400	60-80	F	60-80	F	60-80	F	60-80	F	60-80	F		
<b>N</b>	Wrought aluminium alloys	non-aging		30	-	200-300	G	300-400	G	200-300	G	300-400	G	300-400	G	
		aged		100	340	200-300	G	300-400	G	200-300	G	300-400	G	300-400	G	
	Cast aluminium alloys	≤ 12% Si, non-aging		75	260	160-220	H	180-240	H	160-220	H	180-240	H	180-240	H	
		≤ 12% Si, aged		90	310	160-200	H	180-200	H	160-200	H	180-200	H	180-200	H	
		12% Si, non-aging		130	450	130-160	G	140-180	G	130-160	G	140-180	G	140-180	G	
	Magnesium alloys			70	250											
		Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	120-160	C	140-170	D	120-160	C	140-170	D	140-170	D
Brass, bronze, red brass			90	310	110-140	E	120-140	E	110-140	E	120-140	E				
Cu alloys, short-chip			110	380	120-150	F	140-180	F	120-150	F	140-180	F	140-180	F		
High tensile, Ampco alloy			300	1010	45-60	B	45-60	B	45-60	B	45-60	B	35-50	B		
<b>S</b>	Heat-resistant alloys	Fe-based	Annealed	200	680			30-40	B			30-40	B	30-40	B	
			Hardened	280	940			20-25	A			20-25	A	20-30	A	
		Ni or Co based	Annealed	250	840			20-30	B			20-30	B	20-30	B	
			Hardened	350	1180			10-15	A			10-15	A	10-20	A	
	Titanium alloys	Cast		320	1080			15-25	A			15-25	A	20-30	A	
		Pure titanium		200	680	30-40	B	40-50	C	30-40	B	40-50	C	40-50	C	
		α and β alloys, hardened		375	1260	20-30	A	25-35	B	20-30	A	25-35	B	20-40	B	
		β alloys		410	1400			10-15	A			10-15	A	15-25	A	
Tungsten alloys			300	1010									15-25	A		
Molybdenum alloys			300	1010									15-25	A		
<b>H</b>	Hardened steel	Hardened and tempered		50HRC	-	20-35	A	20-35	A	20-35	A	20-35	A			
		Hardened and tempered		55HRC	-											
		Hardened and tempered		60HRC	-											
	Chilled cast iron	Hardened and tempered		55HRC	-											

The cutting data are average recommended values. For special applications, adjustment is needed.

	5xDc										8xDc	
	D105		D105		D106		D106		D151		D108	
	3.00-20.00		3.00-20.00		3.00-20.00		3.00-16.00		3.00-16.00		3.00-16.00	
	External coolant		Internal coolant		External coolant		Internal coolant		Internal coolant		Internal coolant	
	Vc	Feed code										
	100-110	F	110-120	F	110-120	F	90-115	F	110-120	F	110-120	F
	80-100	E	100-110	E	100-110	E	80-100	E	100-120	E	80-100	E
	80-100	E	100-110	E	100-110	E	80-100	E	100-110	E	80-100	E
	90-100	E	100-110	E	100-110	E	80-100	E	100-120	E	80-100	E
	70-80	D	80-90	D	80-90	D	50-70	D	80-90	D	70-80	D
	100-120	F	110-120	F	110-120	F	90-115	F	110-120	F	100-115	F
	80-100	E	80-110	E	80-110	E	80-110	E	70-100	E	80-110	E
	70-90	D	70-90	D	70-90	D	60-70	D	70-90	D	70-90	D
	40-50	C	40-50	C	40-50	C	40-50	C			40-50	C
	35-45	B	35-45	B	35-45	B	30-40	B			35-45	B
	75-85	D	75-85	D	75-85	D	60-80	D	75-85	D	75-85	D
	60-70	C	60-70	C	60-70	C	40-60	C	60-70	C	60-70	C
	50-60	C	50-60	C	50-60	C	45-50	C			50-60	C
	70-80	D	80-90	D	80-90	D	60-80	D	70-100	D	70-80	D
			45-60	C	45-60	C	40-50	C	50-60	C	40-50	C
			40-50		40-50		40-50	C	50-60	C	40-50	C
			40-50	C	40-50	C	40-50	C	50-60	C	40-50	C
			30-40		30-40		25-35	B	30-40	B	30-40	B
	110-130	G	120-130	G	120-130	G	70-90	G	120-130	G	100-120	G
	85-100	G	90-110	G	90-110	G	60-80	G	90-110	G	90-110	G
	110-120	H	120-130	H	120-130	H	80-110	H	120-130	H	110-120	H
	80-100	G	90-110	G	90-110	G	70-90	G	90-110	G	80-100	G
	110-120	G	120-130	G	120-130	G	80-110	H	120-130	H	110-120	H
	60-80	F										
	60-80	F										
	200-300	G	300-400	G								
	200-300	G	300-400	G								
	160-220	H	180-240	H								
	160-200	H	180-200	H								
	130-160	G	140-180	G								
	120-160	C	120-160	C	120-160	C	140-170	D	120-150	D	140-170	D
	110-140	E	110-140	E	110-140	E	120-140	E			120-140	E
	120-150	F	120-150	F	120-150	F	140-180	F	140-180	F	140-180	F
	45-60	B	45-60	B	45-60	B	45-60	B	35-50	B	45-60	B
							30-40	B	30-40	B	30-40	B
							20-25	A	20-25	A	20-25	A
							20-30	B	20-30	B	20-30	B
							10-15	A	10-20	A	10-15	A
							15-25	A	15-25	A	15-25	A
	30-40	B	30-40	B	30-40	B	40-50	C	40-50	C	40-50	C
	20-30	A	20-30	A	20-30	A	25-35	B	25-35	B	25-35	B
							10-15	A	15-25	A	10-15	A
									15-25	A		
									15-25	A		
	20-35	A	20-35	A	20-35	A	20-35	A			20-35	A

Solid Carbide Drill

## Feed Reference Table

		Feed rate f (mm/rev)							
Dia. mm		A	B	C	D	E	F	G	H
	3.0	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.14
	4.0	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16
	5.0	0.05	0.06	0.07	0.09	0.10	0.12	0.16	0.18
	6.0	0.05	0.07	0.08	0.10	0.12	0.15	0.18	0.20
	8.0	0.06	0.08	0.10	0.12	0.15	0.18	0.20	0.23
	10.0	0.08	0.10	0.12	0.14	0.18	0.20	0.24	0.28
	12.0	0.10	0.12	0.14	0.18	0.20	0.24	0.28	0.32
	14.0	0.10	0.14	0.18	0.20	0.24	0.28	0.32	0.34
	16.0	0.12	0.15	0.18	0.20	0.25	0.30	0.34	0.36
20.0	0.15	0.16	0.20	0.25	0.30	0.34	0.37	0.40	

**Thread Pilot Hole Diameters Before Tapping**

<b>M</b> Metric ISO coarse pitch thread DIN 13 and DIN ISO 965-1			
D	D1		
Diameter	Min (mm)	Max (mm) 5H/6H	Diameter
M4	3.242	3.422	3.30
M4.5	3.688	3.878	3.70
M5	4.134	4.334	4.20
M6	4.917	5.153	5.00
M7	5.917	6.153	6.00
M8	6.647	6.912	6.80
M9	7.647	7.912	7.80
M10	8.376	8.676	8.50
M11	9.376	9.676	9.50
M12	10.106	10.441	10.20
M14	11.835	12.210	12.00
M16	13.835	14.210	14.00
M18	15.294	15.744	15.50
M20	17.294	17.744	17.50
M22	19.294	19.744	19.50

<b>UNC</b> Coarse thread ASME B1.1 standard			
D	D1		
Diameter P Gg/1"	Min (mm) 2B/3B	Max (mm) 2B	Diameter
8-32 UNC	3.302	3.531	3.50
10-24 UNC	3.683	3.962	3.90
12-24 UNC	4.343	4.597	4.50
1/4-20 UNC	4.976	5.268	5.10
5/16-18 UNC	6.411	6.734	6.60
3/8-16 UNC	7.805	8.164	8.00
7/16-14 UNC	9.149	9.550	9.40
1/2-13 UNC	10.584	11.013	10.28
9/16-12 UNC	11.996	12.456	12.20
5/8-11 UNC	13.376	13.868	13.50
3/4-10 UNC	16.299	16.833	16.50
7/8-9 UNC	19.169	19.748	19.50

<b>UNF</b> Fine thread ASME B1.1 standard			
D	D1		
Diameter P Gg/1"	Min (mm) 2B/3B	Max (mm) 2B	Diameter
8-36 UNF	3.404	3.607	3.50
10-32 UNF	3.962	4.166	4.10
12-28 UNF	4.496	4.724	4.60
1/4-28 UNF	5.367	5.580	5.50
5/16-24 UNF	6.792	7.038	6.90
3/8-24 UNF	8.379	8.626	8.50
7/16-20 UNF	9.738	10.030	9.90
1/2-20 UNF	11.326	11.618	11.50
9/16-18 UNF	12.761	13.084	12.90
5/8-18 UNF	14.348	14.671	14.50
3/4-16 UNF	17.330	17.689	17.50

<b>MF</b> Metric ISO fine pitch thread DIN 13 and DIN ISO 965-1			
D	D1		
Diameter x P	Max (mm) 5H/6H	Diameter	
M3.5x0.35	3.221	3.15	
M4x0.35	3.721	3.65	
M4x0.5	3.599	3.50	
M4.5x0.5	4.099	4.00	
M5x0.35	4.721	4.65	
M5x0.5	4.599	4.50	
M5x0.75	4.378	4.20	
M5x0.5	5.599	5.50	
M6x0.75	5.378	5.25	
M7x0.5	6.599	6.50	
M7x0.75	6.378	6.25	
M8x0.5	7.599	7.50	
M8x0.75	7.378	7.25	
M8x1	7.153	7.00	
M9x0.75	8.378	8.25	
M9x1	8.153	8.00	
M10x0.5	9.599	9.50	
M10x0.75	9.378	9.25	
M10x1	9.153	9.00	
M10x1.25	8.912	8.75	
M11x1	10.153	10.00	
M12x0.5	11.599	11.50	
M12x1	11.153	11.00	
M12x1.25	10.912	10.75	
M12x1.5	10.676	10.50	
M13x1	12.153	12.00	
M14x0.75	13.378	13.20	
M14x1	13.153	13.00	
M14x1.25	12.912	12.75	
M14x1.5	12.676	12.50	
M15x1	14.153	14.00	
M15x1.5	13.676	13.50	
M16x0.75	15.378	15.20	
M16x1	15.153	15.00	
M16x1.25	14.912	14.80	
M16x1.5	14.676	14.50	
M17x1	16.153	16.00	
M18x1	17.153	17.00	
M18x1.5	16.676	16.50	
M18x2	16.21	16.00	
M20x1	19.153	19.00	
M20x1.5	18.676	18.50	
M20x2	18.21	18.00	