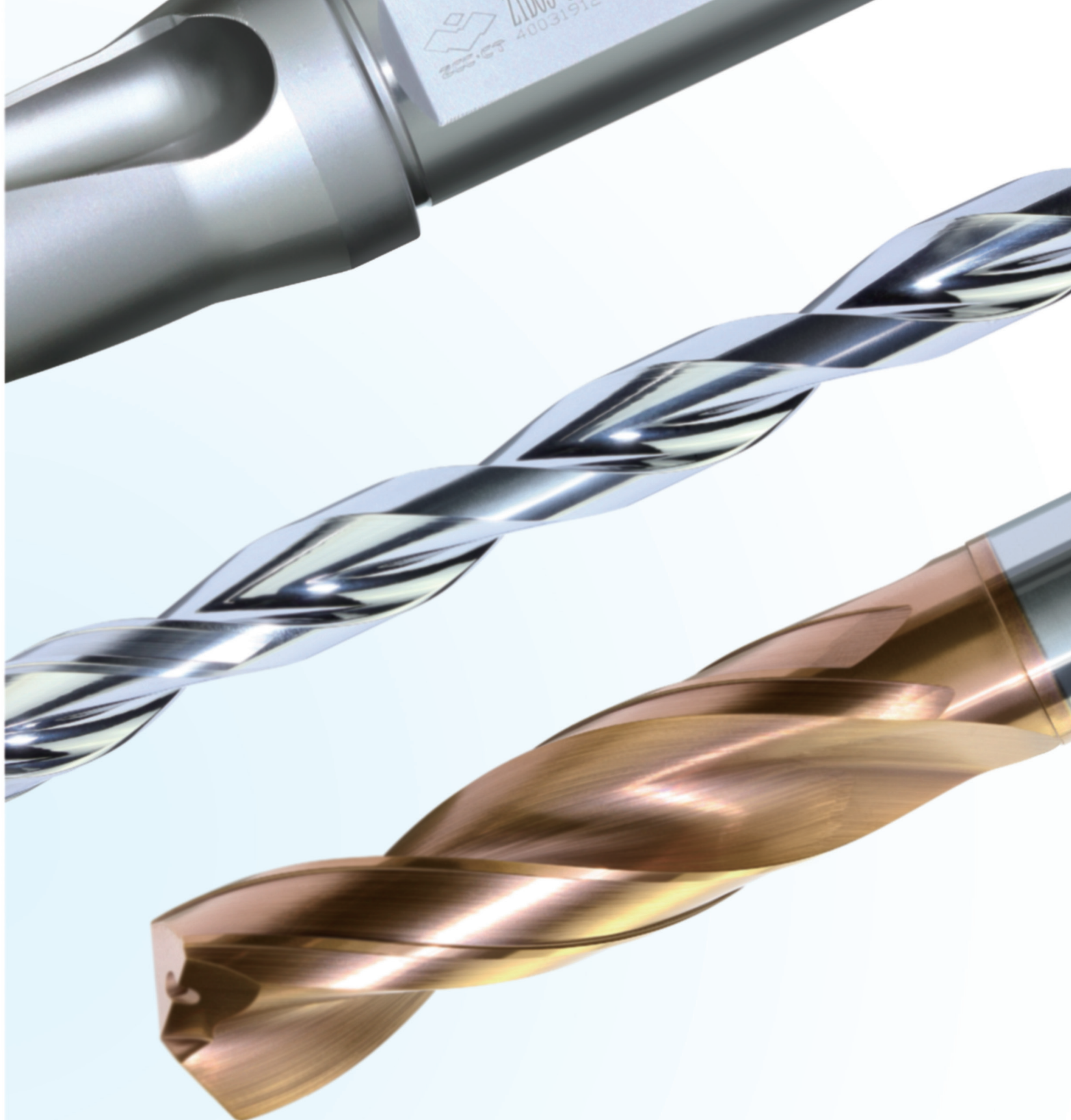


The image features two golden twist drills positioned diagonally from the top left towards the bottom right. The background is a vibrant blue with a pattern of overlapping, semi-transparent circles that resemble a perforated metal surface. The lighting is dramatic, highlighting the metallic texture of the drills and creating a sense of depth and precision.

GD series

Twist Drills for
General Machining





Boring Tools

Drills

Reamers

Threading tools

The image is a promotional advertisement for the ZSD U drill new series. It features three silver-colored metal drill bits of varying lengths and designs, arranged vertically. The bit on the right is the longest and has a more complex, multi-fluted design. The bit in the middle is shorter and has a standard double-flute design. The bit on the left is the shortest and has a single-flute design. Each bit has a copper-colored collar at its base. In the foreground, there are two white, circular rings, one larger than the other. The background is a dark blue gradient with a large, stylized white and blue geometric shape on the right side. The overall aesthetic is clean and industrial.

ZSD

U drill new series

Boring Tools



Drills • C2-C143

- Solid carbide drills C2-C98
- Indexable U drill C99-C129
- Interchangeable head drills C130-C143

Reamers • C144-C155

- Solid carbide reamers C144-C155

Threading tools • C156-C184

- Solid carbide threading cutters C162-C173
- Solid carbide threading end mills C174-C175
- Recommended cutting parameters of solid carbide threading tools C176
- Technical information C177-C182
- Non-standard customization for solid carbide taps C183
- Non-standard customization for solid carbide thread milling cutters • C184

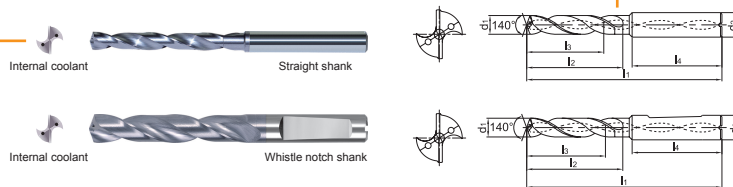


How to choose the right solid carbide drills

How to choose the right solid carbide drills



ST series for machining of soft steel, stainless steel



- First choice for drilling soft steel and stainless steel.
- Sharp cutting edge can avoid build-up edge, suitable for drilling hole with high performance.

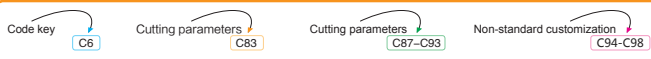
Drill diameter d_1 (mm)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension (mm)					Recommended grade
					Shank diameter d_2 (mm)	Overall length l_1	Flute length l_2	Recommended drilling depth l_3	Shank length l_4	
3.0	3	Internal coolant	Straight shank	1534ST03C-0300	6	62	20	14	36	☆
	5			1536ST05C-0300	6	66	28	23	36	☆
3.1	3		Straight shank	1534ST03C-0310	6	62	20	14	36	☆
	5			1536ST05C-0310	6	66	28	23	36	☆
3.2	3		Whistle notch shank	1736ST05C-0300	6	66	28	23	36	☆
	5			1736ST05C-0310	6	66	28	23	36	☆
3.25	3		Straight shank	1534ST03C-0320	6	62	20	14	36	☆
	5			1536ST05C-0320	6	66	28	23	36	☆
3.3	3		Whistle notch shank	1736ST05C-0320	6	66	28	23	36	☆
	5			1736ST05C-0325	6	66	28	23	36	☆
3.4	3		Straight shank	1534ST03C-0325	6	62	20	14	36	☆
	5			1536ST05C-0325	6	66	28	23	36	☆
3.5	3	Whistle notch shank	1736ST05C-0325	6	66	28	23	36	☆	
	5		1736ST05C-0330	6	66	28	23	36	☆	
3.5	3	Straight shank	1534ST03C-0330	6	62	20	14	36	☆	
	5		1536ST05C-0330	6	66	28	23	36	☆	
3.5	3	Whistle notch shank	1736ST05C-0330	6	66	28	23	36	☆	
	5		1736ST05C-0340	6	66	28	23	36	☆	
3.5	3	Straight shank	1534ST03C-0340	6	62	20	14	36	☆	
	5		1536ST05C-0340	6	66	28	23	36	☆	
3.5	3	Whistle notch shank	1736ST05C-0340	6	66	28	23	36	☆	
	5		1736ST05C-0350	6	66	28	23	36	☆	
3.5	3	Straight shank	1534ST03C-0350	6	62	20	14	36	☆	
	5		1536ST05C-0350	6	66	28	23	36	☆	

☆ Recommended grade (produce according to order)

Applicable material table

Very suitable ○ Suitable

Grade	Workpiece material									
	Mild steel HB≤180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy
KDG303	○	○				○				○



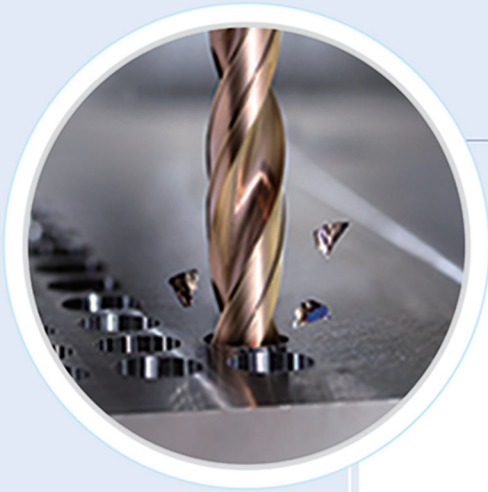
Applicable workpiece material range

Product features

Specifications

Type, depth of drilling, cooling system, type of shank, basic dimensions and grade.

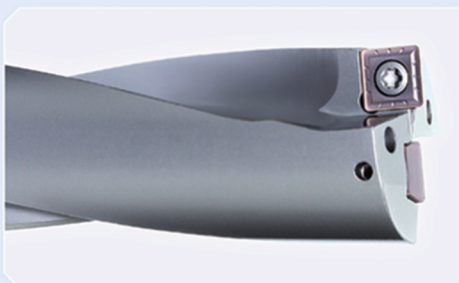
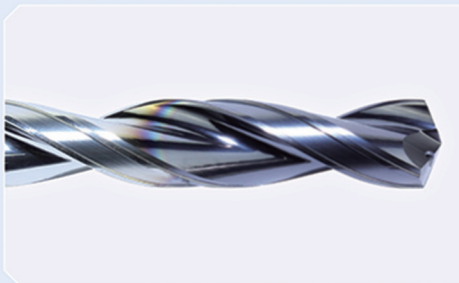
Code key, cutting parameters, technical information, non-standard customization



BORING TOOL























Drills



Drilling tools overview	C4
Solid carbide drills	C5-C98
Grade introduction for solid carbide drills	C5
Solid carbide drills code key	C6
Solid carbide drills overview	C9-C78
Recommended cutting parameters for solid carbide drills	C79-C86
Technical information for solid carbide drills	C87-C93
Non-standard customization tools	C94-C98
Indexable U drill	C99-C129
U drills code key	C100
U drills overview	C103-C121
U drills code key	C122-C123
U drills inserts overview	C124-C126
Technical information for U drills	C127
Recommended cutting parameters for U drills	C128-129
Interchangeable head drills	C130-C143
Interchangeable head drills code key	C131
Interchangeable head drill tool holders overview	C132-C135
Interchangeable head drills overview	C136-C140
Technical information for interchangeable head drills	C141-C142
Recommended cutting parameters for interchangeable head drills	C143



Drilling tools overview

Application	Type of drills	Type	Shape of drills	Coolant mode	Diameter range	Workpiece material						Page	
						P	M	K	N	S	H	Specification	Cutting parameters
						Soft steel	Common steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy		
General machining	Twist drill	GD03		External cooling	Ø2-Ø25	○	○	○	○	○	○	C9-C44	C79-C80
		GD03C		Internal cooling	Ø3-Ø25	○	○	○	○	○	○		
		GD05		External cooling	Ø2-Ø25	○	○	○	○	○	○		
		GD05C		Internal cooling	Ø3-Ø25	○	○	○	○	○	○		
		GD08C		Internal cooling	Ø3-Ø18	○	○	○	○	○	○		
Deep drilling	Twist drill	1588SL 12/20/30C		Internal cooling	Ø3-Ø20	○	○	○	○	○	○	C48-C51	C81
		1534SP		Internal cooling	Ø3-Ø14	○	○	○	○	○	○	C52-C53	C82
For soft steel, stainless steel	Twist drill	1534ST03C		Internal cooling	Ø3-Ø20	○	○	○		○		C55-C67	C83
		1536ST05C		Internal cooling	Ø3-Ø20	○	○	○		○			
		1736ST05C		Internal cooling	Ø3-Ø20	○	○	○		○			
For aluminum, cast iron	Twist drill	1105SC03		External cooling	Ø2-Ø16				○	○		C68-71	C83
		1101SC05		External cooling	Ø2-Ø16				○	○			
	Three flute drill	1165PA03		External cooling	Ø3-Ø20			○	○	○		C72-C75	C84
		Straight flute drill	1576PC05		External cooling	Ø4-Ø20				○	○		C76-C77
	1579PC15C			Internal cooling	Ø5-Ø14				○	○			
	Centering drill	Centering drill	1143SC90		External cooling	Ø5-Ø20				○	○		C78
1143SC120				External cooling	Ø5-Ø20				○	○			
Indexable drills series	U drill	ZSD 02/03/04/05		Internal cooling	Ø12-Ø50	○	○	○	○	○	○	C103-C114	C130-C129
		ZTD 02/03/04/05		Internal cooling	Ø13-Ø50	○	○	○	○	○		C118-C121	C130-C129
Interchangeable head drills series	Interchangeable head drills	ZTK 015/03/04/08		Internal cooling	Ø12-Ø25	○	○	○	○	○		C132-C135	C151

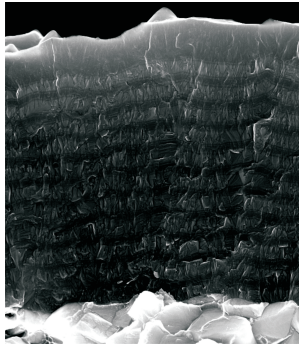
○ Very suitable ○ Suitable

Drilling tools

Drilling tools overview

Grade introduction of solid carbide drills

Coated grade

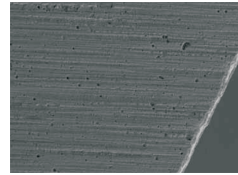


AlCrN substrate composite coating

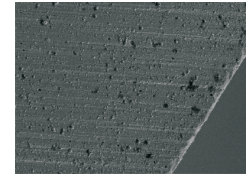
KDG3013

New AlCrN substrate composite coating, with excellent abrasion resistance and bonding resistance, improves the stability of the insert edge.

Unique coating after-treatment technology effectively reduces the cutting resistance for smoother chip evacuation and higher security.



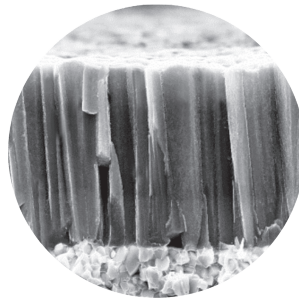
KDG3013



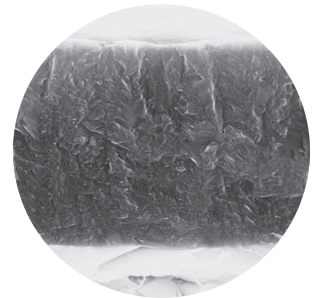
Conventional coating

KDG303

Ultra-fine carbide substrate with high strength, toughness and wear resistance, in combination with nano-structured nc-TiAlN coating aiming at optimizing drilling operations, makes sure the tools have very high toughness and hardness. Unique coating technology gives the tools smooth surface and excellent wear resistance, and outstanding thermal stability and chemical stability provide effective protection for the cutting edge.



Common TiAlN coating



nc-TiAlN coating

Uncoated grade

YK20F

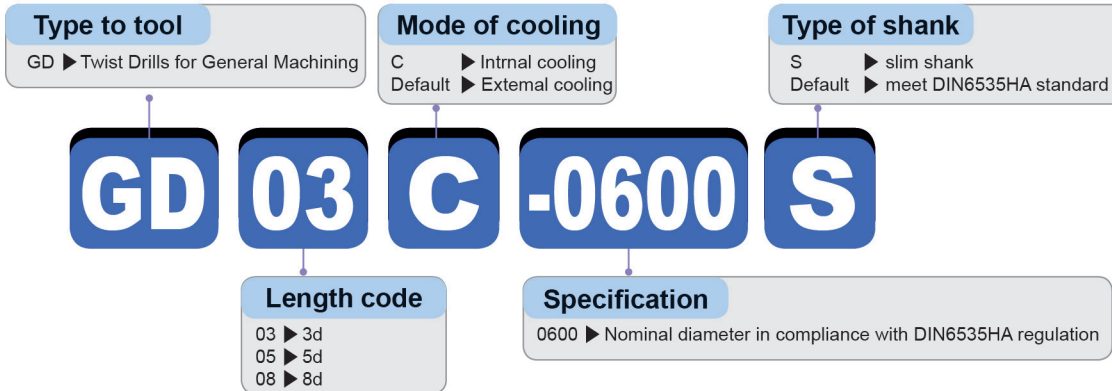
Ultra-fine grain carbide substrate with high hardness, outstanding wear resistance, and long tool life.

YK30F

Ultra-fine carbide substrate with high strength, toughness and wear resistance gives the cutting edge perfect strength.



Solid carbide drills code key



Code	Description
1	As per DIN338
2	As per DIN1897
3	As per QJ/ZZQ(TO)01.001.002
4	As per DIN6537K
5	As per DIN6537K
6	As per DIN6537K
7	As per the rule ZZC-C in QJ/ZZQ(TO)01.001.002
8	As per the rule ZZC-D in QJ/ZZQ(TO)01.001.002
9	As per the rule ZZC-E in QJ/ZZQ(TO)01.001.002

Length code

Code	Description
SL	Deep twist drills
ST	Twist drill for soft steel, stainless steel
SC	Twist drill for AL alloy and cast iron
PA	Three flute drill for AL alloy and cast iron
PC	Straight flute drill for aluminum, cast iron

Geometry

Code	Description
1	Drills

Type to tool

Code	Description
C	Internal coolant
Default	External coolant

Mode of cooling



Code	Description
1	Straight shank
2	Square head straight shank as per DIN10
3	Double flattened straight shank as per DIN1809
5	Straight shank as per DIN6535HA
7	Whistle notch shank as per DIN6535HE
9	Tapered shank

Type of shank

Code	Description
0	Twist drill
3	Multiple functions twist drill
4	Centering drill
5	Step drill
7	Straight flute drill
8	Deep drill

Type of drill

Code	Description
0850	Nominal diameter of drill

Specification

Identification of drilling depth			
Cutting depth shown when the tool is non-pilot drill		Point angle identification shown when tool is pilot drill	
Code	Description	Code	Description
03	(2~3) d	90	pilot drill with 90° point angle
05	(4~5) d	120	pilot drill with 120° point angle
08	(7~8) d		
12	(12) d		
15	(15) d		
20	(20) d		
30	(30) d		

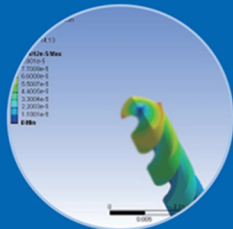
GD series Twist Drills for General Machining

Application range

Versatile, for high efficiency machining in a variety of material e.g. P(steel), M(stainless steel), K (Cast iron).



- Linear cutting edge with high strength.
Optimized drill point structure for better cutting performance.



- Simulation in combination with testing for superior overall performance.



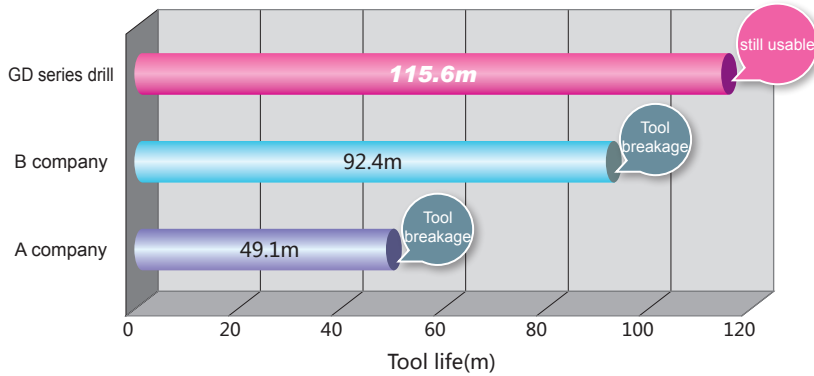
- Double edge-line design for improved machining stability.



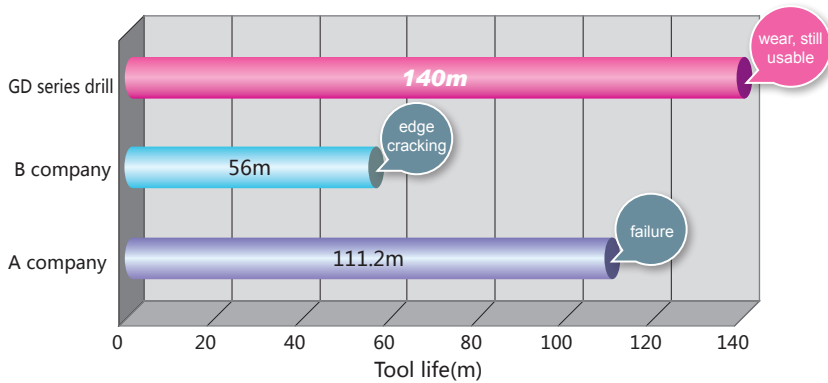
- Professional after treatment for coating ensures low-resistance high-efficiency machining.



Long and stable tool life



tool: GD05C-0560
 workpiece material: C70S6(HRC30)
 $V_c=100\text{m/min}$; $f=0.15\text{mm/r}$; $H=27\text{mm}$
 cooling system: water soluble cooling

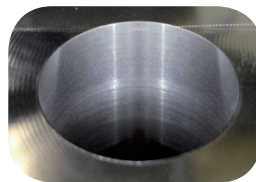


tool: GD05C-1000
 workpiece material: 45^osteel(HB180)
 $V_c=150\text{m/min}$; $f=0.25\text{mm/r}$; $H=40\text{mm}$
 cooling system: water soluble cooling

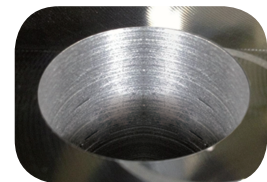
outstanding machining precision

quality of hole wall:

tool: GD03C-0820
 workpiece material: C70S6(HRC30)
 $V_c=120\text{m/min}$; $f=0.23\text{mm/r}$; $H=30\text{mm}$;
 cooling system: water soluble cooling



GD series drill



A company

excellent chip breaking performance

chip breaking performance:

tool: GD05C-0600
 workpiece material: 1Cr18Ni9Ti(HB180)
 $V_c=75\text{m/min}$; $f=0.2\text{mm/r}$; $H=30\text{mm}$;
 cooling system: water soluble cooling



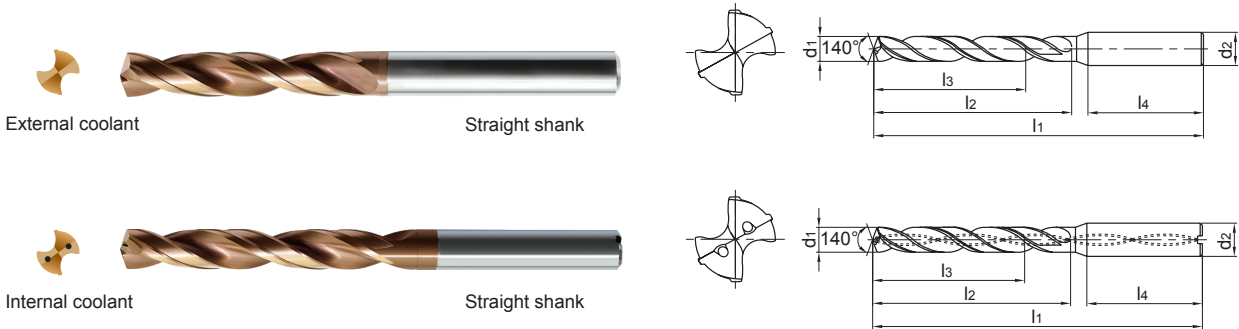
GD series drill



A company



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

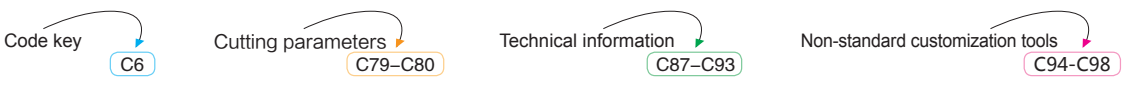
Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade			
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps				
					d2(h6)	l1	l2	l3	l4						
2.0	3	External coolant	Straight shank	GD03-0200S	3	58	13	9	28	NO.2-64UNF	○				
	5			GD05-0200S	3	58	18	14	28		○				
	3			GD03-0200	4	58	13	9	28		●				
	5			GD05-0200	4	58	18	14	28		●				
2.1	3			External coolant	Straight shank	GD03-0210S	3	58	13	9	28	NO.3-48UNC	○		
	5					GD05-0210S	3	58	18	14	28		○		
	3					GD03-0210	4	58	13	9	28		●		
	5					GD05-0210	4	58	18	14	28		●		
2.15	3					External coolant	Straight shank	GD03-0215S	3	58	13	9	28	NO.3-56UNF	○
	5							GD05-0215S	3	58	18	14	28		○
	3							GD03-0215	4	58	13	9	28		●
	5							GD05-0215	4	58	18	14	28		●
2.2	3	External coolant	Straight shank					GD03-0220S	3	58	13	9	28		○
	5							GD05-0220S	3	58	18	14	28		○
	3							GD03-0220	4	58	13	9	28		●
	5							GD05-0220	4	58	18	14	28		●
2.3	3			External coolant	Straight shank			GD03-0230S	3	58	13	9	28	M2.5×0.45 NO.3-56UNF	○
	5							GD05-0230S	3	58	18	14	28		○
	3							GD03-0230	4	58	13	9	28		●
	5							GD05-0230	4	58	18	14	28		●

● Stock available ○ Make-to-order

▶ Applicable material table

◎ Very suitable ○ Suitable

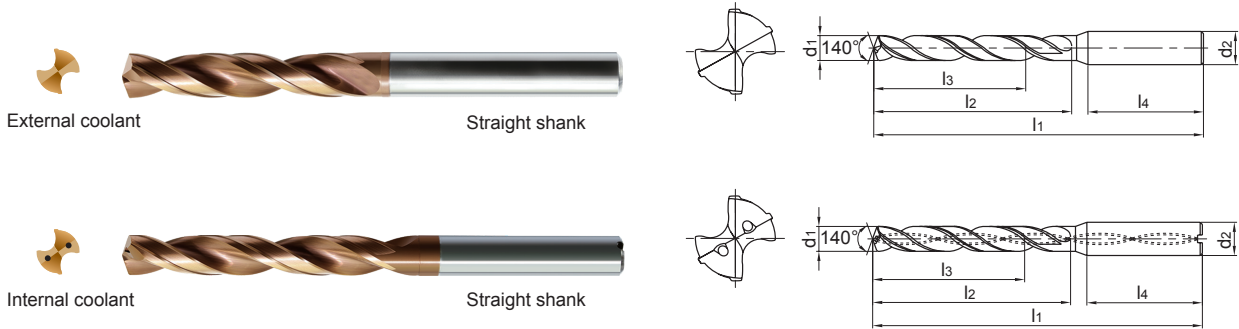
Grade	Workpiece material									
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy
KDG3013	○	◎	◎			○	◎	◎		○



Drilling tools
GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
2.35	3	External coolant	Straight shank	GD03-0235S	3	58	17	12	28	NO.4-40UNC		○
	5			GD05-0235S	3	58	22	17	28			○
	3			GD03-0235	4	58	17	12	28			●
	5			GD05-0235	4	58	22	17	28			●
2.4	3			GD03-0240S	3	58	17	12	28	NO.4-48UNF		○
	5			GD05-0240S	3	58	22	17	28			○
	3			GD03-0240	4	58	17	12	28			●
	5			GD05-0240	4	58	22	17	28			●
2.5	3			GD03-0250S	3	58	17	12	28	M3×0.5		○
	5			GD05-0250S	3	58	22	17	28			○
	3			GD03-0250	4	58	17	12	28			●
	5			GD05-0250	4	58	22	17	28			●
2.55	3			GD03-0255S	3	58	17	12	28	NO.4-40UNC		○
	5			GD05-0255S	3	58	22	17	28			○
	3			GD03-0255	4	58	17	12	28			●
	5			GD05-0255	4	58	22	17	28			●
2.6	3			GD03-0260S	3	58	17	12	28	NO.4-48UNF		○
	5			GD05-0260S	3	58	22	17	28			○
	3			GD03-0260	4	58	17	12	28			●
	5			GD05-0260	4	58	22	17	28			●
2.65	3	GD03-0265S	3	58	17	12	28	NO.5-40UNC		○		
	5	GD05-0265S	3	58	22	17	28			○		
	3	GD03-0265	4	58	17	12	28			●		
	5	GD05-0265	4	58	22	17	28			●		
2.7	3	GD03-0270S	3	58	17	12	28	NO.5-44UNF		○		
	5	GD05-0270S	3	58	22	17	28			○		
	3	GD03-0270	4	58	17	12	28			●		
	5	GD05-0270	4	58	22	17	28			●		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps		
					d2(h6)	l1	l2	l3	l4				
2.8	3	External coolant	Straight shank	GD03-0280S	3	58	17	12	28	M3×0.5	○		
	5			GD05-0280S	3	58	22	17	28		○		
	3			GD03-0280	4	58	17	12	28		●		
	5			GD05-0280	4	58	22	17	28		●		
2.85	3			External coolant	Straight shank	GD03-0285S	3	58	17	12	28	NO.6-32UNC	○
	5					GD05-0285S	3	58	22	17	28		○
	3					GD03-0285	4	58	17	12	28		●
	5					GD05-0285	4	58	22	17	28		●
2.9	3	External coolant	Straight shank			GD03-0290S	3	58	17	12	28	NO.5-40UNC	○
	5					GD05-0290S	3	58	22	17	28		○
	3					GD03-0290	4	58	17	12	28		●
	5					GD05-0290	4	58	22	17	28		●
2.95	3			External coolant	Straight shank	GD03-0295S	3	58	17	12	28	NO.6-40UNF	○
	5					GD05-0295S	3	58	22	17	28		○
	3					GD03-0295	4	58	17	12	28		●
	5					GD05-0295	4	58	22	17	28		●
3.0	3	Internal coolant	Straight shank			GD03-0300S	3	62	20	14	36		○
	5					GD05-0300S	3	66	28	23	36		○
	3					GD03C-0300S	3	62	20	14	36		○
	5					GD05C-0300S	3	66	28	23	36		○
	3	External coolant		GD03-0300	6	62	20	14	36	●			
	5			GD05-0300	6	66	28	23	36	●			
	3			GD03C-0300	6	62	20	14	36	●			
	5			GD05C-0300	6	66	28	23	36	●			
3.1	3	External coolant	Straight shank	GD08C-0300	6	72	34	29	36		○		
	5			GD03-0310S	4	62	20	14	36		●		
	3			GD05-0310S	4	66	28	23	36		●		
	5			GD03C-0310S	4	62	20	14	36		●		
	3	Internal coolant		GD05C-0310S	4	66	28	23	36		●		
	5			GD03-0310	6	62	20	14	36		○		
	3			GD05-0310	6	66	28	23	36		○		
	5			GD03C-0310	6	62	20	14	36		○		
3.1	3	External coolant	Straight shank	GD05C-0310	6	66	28	23	36	○			
	5			GD03C-0310	6	62	20	14	36	○			
	3			GD05C-0310	6	66	28	23	36	○			
	5			GD03C-0310	6	62	20	14	36	○			
3.1	3	Internal coolant	Straight shank	GD08C-0310	6	72	34	29	36		○		

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs. ● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

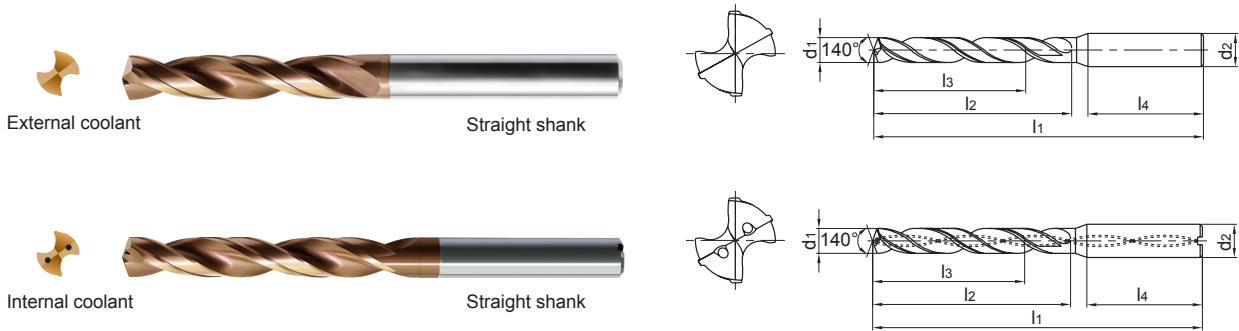
Cutting parameters
C79-C80

Technical information
C87-C93

Non-standard customization tools
C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
3.15	3	External coolant	Straight shank	GD03-0315S	4	62	20	14	36	NO.6-32UNC	●	
	5			GD05-0315S	4	66	28	23	36		●	
	3	Internal coolant		GD03C-0315S	4	62	20	14	36		●	
	5			GD05C-0315S	4	66	28	23	36		●	
	3	External coolant		GD03-0315	6	62	20	14	36		○	
	5			GD05-0315	6	66	28	23	36		○	
	3	Internal coolant		GD03C-0315	6	62	20	14	36		○	
	5			GD05C-0315	6	66	28	23	36		○	
3.2	3	External coolant	GD03-0320S	4	62	20	14	36	NO.6-40UNF	●		
	5		GD05-0320S	4	66	28	23	36		●		
	3	Internal coolant	GD03C-0320S	4	62	20	14	36		●		
	5		GD05C-0320S	4	66	28	23	36		●		
	3	External coolant	GD03-0320	6	62	20	14	36		○		
	5		GD05-0320	6	66	28	23	36		○		
	3	Internal coolant	GD03C-0320	6	62	20	14	36		○		
	5		GD05C-0320	6	66	28	23	36		○		
3.25	3	External coolant	GD03-0325S	4	62	20	14	36		●		
	5		GD05-0325S	4	66	28	23	36		●		
	3	Internal coolant	GD03C-0325S	4	62	20	14	36		●		
	5		GD05C-0325S	4	66	28	23	36		●		
	3	External coolant	GD03-0325	6	62	20	14	36		○		
	5		GD05-0325	6	66	28	23	36		○		
	3	Internal coolant	GD03C-0325	6	62	20	14	36		○		
	5		GD05C-0325	6	66	28	23	36		○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
3.3	3	External coolant	Straight shank	GD03-0330S	4	62	20	14	36	M4×0.7		●
	5			GD05-0330S	4	66	28	23	36			●
	3	Internal coolant		GD03C-0330S	4	62	20	14	36			●
	5			GD05C-0330S	4	66	28	23	36			●
	3	External coolant		GD03-0330	6	62	20	14	36			○
	5			GD05-0330	6	66	28	23	36			○
	3	Internal coolant		GD03C-0330	6	62	20	14	36			○
	5			GD05C-0330	6	66	28	23	36			○
	8	GD08C-0330		6	72	34	29	36	○			
3.4	3	External coolant		GD03-0340S	4	62	20	14	36			●
	5			GD05-0340S	4	66	28	23	36			●
	3	Internal coolant		GD03C-0340S	4	62	20	14	36			●
	5			GD05C-0340S	4	66	28	23	36			●
	3	External coolant		GD03-0340	6	62	20	14	36			○
	5			GD05-0340	6	66	28	23	36			○
	3	Internal coolant		GD03C-0340	6	62	20	14	36			○
	5			GD05C-0340	6	66	28	23	36			○
	8	GD08C-0340		6	72	34	29	36	○			
3.5	3	External coolant	GD03-0350S	4	62	20	14	36	M4×0.5		●	
	5		GD05-0350S	4	66	28	23	36			●	
	3	Internal coolant	GD03C-0350S	4	62	20	14	36			●	
	5		GD05C-0350S	4	66	28	23	36			●	
	3	External coolant	GD03-0350	6	62	20	14	36			NO.8-32UNC	○
	5		GD05-0350	6	66	28	23	36			NO.8-36UNF	○
	3	Internal coolant	GD03C-0350	6	62	20	14	36			○	
	5		GD05C-0350	6	66	28	23	36			○	
	8	GD08C-0350	6	72	34	29	36	○				
3.6	3	External coolant	GD03-0360S	4	62	20	14	36			●	
	5		GD05-0360S	4	66	28	23	36			●	
	3	Internal coolant	GD03C-0360S	4	62	20	14	36			●	
	5		GD05C-0360S	4	66	28	23	36			●	
	3	External coolant	GD03-0360	6	62	20	14	36			○	
	5		GD05-0360	6	66	28	23	36			○	
	3	Internal coolant	GD03C-0360	6	62	20	14	36			○	
	5		GD05C-0360	6	66	28	23	36			○	
	8	GD08C-0360	6	72	34	29	36	○				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶▶ Applicable material table

⊙ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	⊙	⊙			○	⊙	⊙		○	

Code key
C6

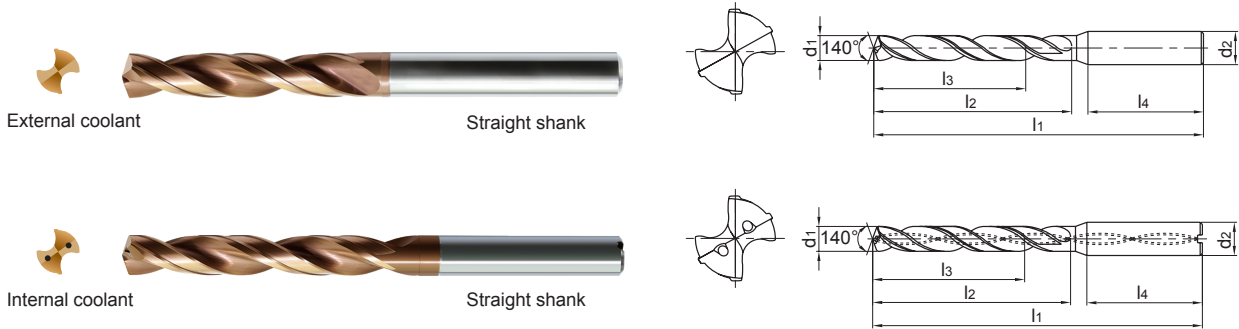
Cutting parameters
C79-C80

Technical information
C87-C93

Non-standard customization tools
C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
3.7	3	External coolant	Straight shank	GD03-0370S	4	62	20	14	36		M4×0.7	●
	5			GD05-0370S	4	66	28	23	36			●
	3	Internal coolant		GD03C-0370S	4	62	20	14	36			●
	5			GD05C-0370S	4	66	28	23	36			●
	3	External coolant		GD03-0370	6	62	20	14	36			○
	5			GD05-0370	6	66	28	23	36			○
	3	Internal coolant		GD03C-0370	6	62	20	14	36			○
	5			GD05C-0370	6	66	28	23	36			○
8		GD08C-0370		6	72	34	29	36	○			
3.8	3	External coolant		GD03-0380S	4	66	24	17	36		M4×0.5 NO.8-32UNC	●
	5			GD05-0380S	4	74	36	29	36			●
	3	Internal coolant		GD03C-0380S	4	66	24	17	36			●
	5			GD05C-0380S	4	74	36	29	36			●
	3	External coolant		GD03-0380	6	66	24	17	36			○
	5			GD05-0380	6	74	36	29	36			○
	3	Internal coolant		GD03C-0380	6	66	24	17	36			○
	5		GD05C-0380	6	74	36	29	36	○			
	8		GD08C-0380	6	81	43	36	36	○			
	3.85	3	External coolant	GD03-0385S	4	66	24	17	36			
5		GD05-0385S		4	74	36	29	36	●			
3		Internal coolant	GD03C-0385S	4	66	24	17	36	●			
5			GD05C-0385S	4	74	36	29	36	●			
3		External coolant	GD03-0385	6	66	24	17	36	○			
5			GD05-0385	6	74	36	29	36	○			
3		Internal coolant	GD03C-0385	6	66	24	17	36	○			
5			GD05C-0385	6	74	36	29	36	○			

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
3.9	3	External coolant	Straight shank	GD03-0390S	4	66	24	17	36	NO.10-24UNC		●
	5			GD05-0390S	4	74	36	29	36			●
	3	Internal coolant		GD03C-0390S	4	66	24	17	36			●
	5			GD05C-0390S	4	74	36	29	36			●
	3	External coolant		GD03-0390	6	66	24	17	36			○
	5			GD05-0390	6	74	36	29	36			○
	3	Internal coolant		GD03C-0390	6	66	24	17	36			○
	5			GD05C-0390	6	74	36	29	36			○
	8	GD08C-0390		6	81	43	36	36	○			
4.0	3	External coolant		GD03-0400S	4	66	24	17	36			●
	5			GD05-0400S	4	74	36	29	36			●
	3	Internal coolant		GD03C-0400S	4	66	24	17	36			●
	5			GD05C-0400S	4	74	36	29	36			●
	3	External coolant		GD03-0400	6	66	24	17	36			○
	5			GD05-0400	6	74	36	29	36			○
	3	Internal coolant		GD03C-0400	6	66	24	17	36			○
	5			GD05C-0400	6	74	36	29	36			○
	8	GD08C-0400		6	81	43	36	36	○			
4.1	3	External coolant	GD03-0410S	5	66	24	17	36	NO.10-32UNF		○	
	5		GD05-0410S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0410S	5	66	24	17	36			○	
	5		GD05C-0410S	5	74	36	29	36			○	
	3	External coolant	GD03-0410	6	66	24	17	36			●	
	5		GD05-0410	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0410	6	66	24	17	36			●	
	5		GD05C-0410	6	74	36	29	36			●	
	8	GD08C-0410	6	81	43	36	36	○				
4.2	3	External coolant	GD03-0420S	5	66	24	17	36	M5×0.8		○	
	5		GD05-0420S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0420S	5	66	24	17	36			○	
	5		GD05C-0420S	5	74	36	29	36			○	
	3	External coolant	GD03-0420	6	66	24	17	36			●	
	5		GD05-0420	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0420	6	66	24	17	36			●	
	5		GD05C-0420	6	74	36	29	36			●	
	8	GD08C-0420	6	81	43	36	36	○				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs. ● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎		○	

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

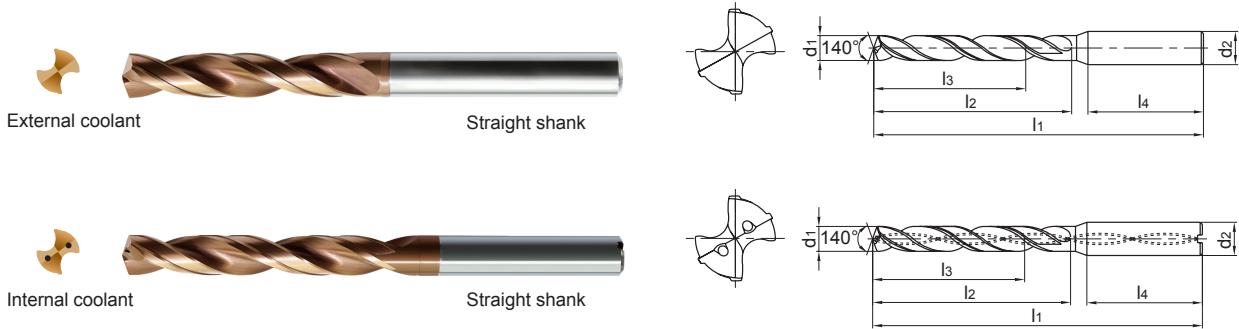
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
4.3	3	External coolant	Straight shank	GD03-0430S	5	66	24	17	36			○
	5			GD05-0430S	5	74	36	29	36			○
	3	Internal coolant		GD03C-0430S	5	66	24	17	36			○
	5			GD05C-0430S	5	74	36	29	36			○
	3	External coolant		GD03-0430	6	66	24	17	36			●
	5			GD05-0430	6	74	36	29	36			●
	3	Internal coolant		GD03C-0430	6	66	24	17	36			●
	5			GD05C-0430	6	74	36	29	36			●
8		GD08C-0430	6	81	43	36	36			○		
4.35	3	External coolant	GD03-0435S	5	66	24	17	36			○	
	5		GD05-0435S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0435S	5	66	24	17	36			○	
	5		GD05C-0435S	5	74	36	29	36			○	
	3	External coolant	GD03-0435	6	66	24	17	36		NO.10-24UNC	●	
	5		GD05-0435	6	74	36	29	36	●			
	3	Internal coolant	GD03C-0435	6	66	24	17	36	●			
	5		GD05C-0435	6	74	36	29	36	●			
4.4	3	External coolant	GD03-0440S	5	66	24	17	36				○
	5		GD05-0440S	5	74	36	29	36				○
	3	Internal coolant	GD03C-0440S	5	66	24	17	36				○
	5		GD05C-0440S	5	74	36	29	36				○
	3	External coolant	GD03-0440	6	66	24	17	36			●	
	5		GD05-0440	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0440	6	66	24	17	36			●	
	5		GD05C-0440	6	74	36	29	36			●	
8		GD08C-0440	6	81	43	36	36			○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
4.45	3	External coolant	Straight shank	GD03-0445S	5	66	24	17	36	NO.10-32UNF		○
	5			GD05-0445S	5	74	36	29	36			○
	3	Internal coolant		GD03C-0445S	5	66	24	17	36			○
	5			GD05C-0445S	5	74	36	29	36			○
	3	External coolant		GD03-0445	6	66	24	17	36			●
	5			GD05-0445	6	74	36	29	36			●
	3	Internal coolant		GD03C-0445	6	66	24	17	36			●
	5			GD05C-0445	6	74	36	29	36			●
4.5	3	External coolant	GD03-0450S	5	66	24	17	36	NO.12-24UNC M5×0.5		○	
	5		GD05-0450S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0450S	5	66	24	17	36			○	
	5		GD05C-0450S	5	74	36	29	36			○	
	3	External coolant	GD03-0450	6	66	24	17	36			●	
	5		GD05-0450	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0450	6	66	24	17	36			●	
	5		GD05C-0450	6	74	36	29	36			●	
4.6	8		GD08C-0450	6	81	43	36	36			○	
	3	External coolant	GD03-0460S	5	66	24	17	36			○	
	5		GD05-0460S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0460S	5	66	24	17	36			○	
	5		GD05C-0460S	5	74	36	29	36			○	
	3	External coolant	GD03-0460	6	66	24	17	36			●	
	5		GD05-0460	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0460	6	66	24	17	36			●	
5	GD05C-0460		6	74	36	29	36	●				
4.65	8		GD08C-0460	6	81	43	36	36			○	
	3	External coolant	GD03-0465S	5	66	24	17	36	M5×0.8		○	
	5		GD05-0465S	5	74	36	29	36			○	
	3	Internal coolant	GD03C-0465S	5	66	24	17	36			○	
	5		GD05C-0465S	5	74	36	29	36			○	
	3	External coolant	GD03-0465	6	66	24	17	36			●	
	5		GD05-0465	6	74	36	29	36			●	
	3	Internal coolant	GD03C-0465	6	66	24	17	36			●	
5	GD05C-0465		6	74	36	29	36	●				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key

C6

Cutting parameters

C79-C80

Technical information

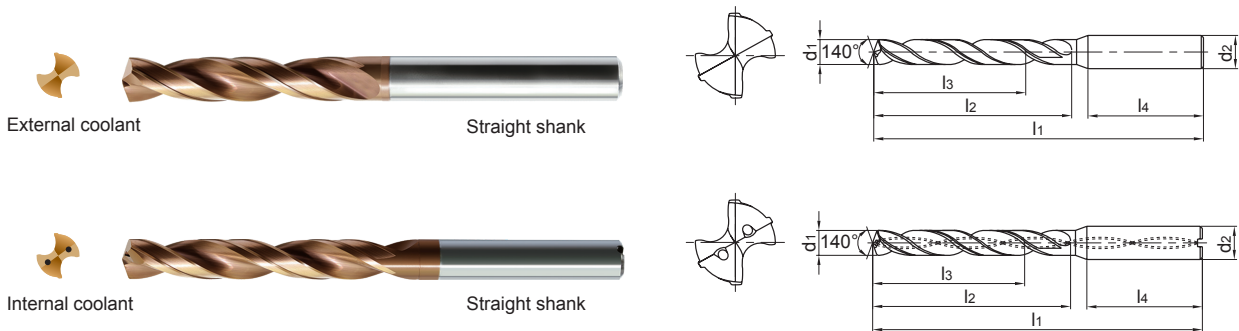
C87-C93

Non-standard customization tools

C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
4.7	3	External coolant	Straight shank	GD03-0470S	5	66	24	17	36	NO.12-28UNF		○
	5			GD05-0470S	5	74	36	29	36			○
	3	Internal coolant		GD03C-0470S	5	66	24	17	36			○
	5			GD05C-0470S	5	74	36	29	36			○
	3	External coolant		GD03-0470	6	66	24	17	36			●
	5			GD05-0470	6	74	36	29	36			●
	3	Internal coolant		GD03C-0470	6	66	24	17	36			●
	5			GD05C-0470	6	74	36	29	36			●
8		GD08C-0470	6	81	43	36	36	○				
4.8	3	External coolant	GD03-0480S	5	66	28	20	36	M5×0.5	○		
	5		GD05-0480S	5	82	44	35	36		○		
	3	Internal coolant	GD03C-0480S	5	66	28	20	36		○		
	5		GD05C-0480S	5	82	44	35	36		○		
	3	External coolant	GD03-0480	6	66	28	20	36		●		
	5		GD05-0480	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0480	6	66	28	20	36		●		
	5		GD05C-0480	6	82	44	35	36		●		
8		GD08C-0480	6	95	57	48	36	○				
4.9	3	External coolant	GD03-0490S	5	66	28	20	36		○		
	5		GD05-0490S	5	82	44	35	36		○		
	3	Internal coolant	GD03C-0490S	5	66	28	20	36		○		
	5		GD05C-0490S	5	82	44	35	36		○		
	3	External coolant	GD03-0490	6	66	28	20	36		●		
	5		GD05-0490	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0490	6	66	28	20	36		●		
	5		GD05C-0490	6	82	44	35	36		●		
8		GD08C-0490	6	95	57	48	36	○				

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
5.0	3	External coolant	Straight shank	GD03-0500S	5	66	28	20	36	M6×1	NO.12-24UNC	○
	5			GD05-0500S	5	82	44	35	36			○
	3	Internal coolant		GD03C-0500S	5	66	28	20	36			○
	5			GD05C-0500S	5	82	44	35	36			○
	3	External coolant		GD03-0500	6	66	28	20	36			●
	5			GD05-0500	6	82	44	35	36			●
	3	Internal coolant		GD03C-0500	6	66	28	20	36			●
	5			GD05C-0500	6	82	44	35	36			●
8		GD08C-0500	6	95	57	48	36	○				
5.1	3	External coolant	GD03-0510	6	66	28	20	36	1/4-20UNC	NO.12-28UNF	●	
	5		GD05-0510	6	82	44	35	36			●	
	3	Internal coolant	GD03C-0510	6	66	28	20	36			●	
	5		GD05C-0510	6	82	44	35	36			●	
	8		GD08C-0510	6	95	57	48	36			○	
5.2	3	External coolant	GD03-0520	6	66	28	20	36	M6×0.75		●	
	5		GD05-0520	6	82	44	35	36			●	
	3	Internal coolant	GD03C-0520	6	66	28	20	36			●	
	5		GD05C-0520	6	82	44	35	36			●	
	8		GD08C-0520	6	95	57	48	36			○	
5.25	3	External coolant	GD03-0525	6	66	28	20	36			●	
	5		GD05-0525	6	82	44	35	36			●	
	3	Internal coolant	GD03C-0525	6	66	28	20	36			●	
	5		GD05C-0525	6	82	44	35	36			●	
5.3	3	External coolant	GD03-0530	6	66	28	20	36			●	
	5		GD05-0530	6	82	44	35	36			●	
	3	Internal coolant	GD03C-0530	6	66	28	20	36			●	
	5		GD05C-0530	6	82	44	35	36			●	
	8		GD08C-0530	6	95	57	48	36			○	
5.4	3	External coolant	GD03-0540	6	66	28	20	36			●	
	5		GD05-0540	6	82	44	35	36			●	
	3	Internal coolant	GD03C-0540	6	66	28	20	36			●	
	5		GD05C-0540	6	82	44	35	36			●	
	8		GD08C-0540	6	95	57	48	36			○	

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎		○	

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

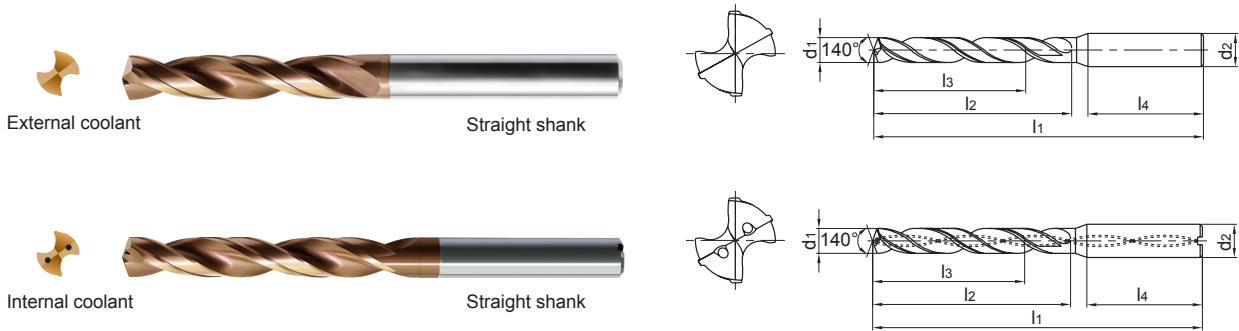
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter d2(h6)	Overall length l1	Flute length l2	Recommended drilling depth l3	Shank length l4	cutting taps / tread milling cutters	forming taps	
5.5	3	External coolant	Straight shank	GD03-0550	6	66	28	20	36	1/4-28UNF		●
	5			GD05-0550	6	82	44	35	36		●	
	3	GD03C-0550		6	66	28	20	36	●			
	5	GD05C-0550		6	82	44	35	36	●			
	8	GD08C-0550		6	95	57	48	36	○			
5.55	3	External coolant		GD03-0555	6	66	28	20	36		●	
	5			GD05-0555	6	82	44	35	36	●		
	3	Internal coolant		GD03C-0555	6	66	28	20	36		●	
	5			GD05C-0555	6	82	44	35	36	●		
	8			GD08C-0560	6	95	57	48	36	○		
5.6	3	External coolant	GD03-0560	6	66	28	20	36	M6×1		●	
	5		GD05-0560	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0560	6	66	28	20	36		●		
	5		GD05C-0560	6	82	44	35	36		●		
	8		GD08C-0570	6	95	57	48	36		○		
5.7	3	External coolant	GD03-0570	6	66	28	20	36	M6×0.75		●	
	5		GD05-0570	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0570	6	66	28	20	36		●		
	5		GD05C-0570	6	82	44	35	36		●		
	8		GD08C-0575	6	95	57	48	36		○		
5.75	3	External coolant	GD03-0575	6	66	28	20	36	1/4-20UNC		●	
	5		GD05-0575	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0575	6	66	28	20	36		●		
	5		GD05C-0575	6	82	44	35	36		●		
	8		GD08C-0580	6	95	57	48	36		○		
5.8	3	External coolant	GD03-0580	6	66	28	20	36			●	
	5		GD05-0580	6	82	44	35	36		●		
	3	Internal coolant	GD03C-0580	6	66	28	20	36		●		
	5		GD05C-0580	6	82	44	35	36		●		
	8		GD08C-0580	6	95	57	48	36		○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade		
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps			
					d2(h6)	l1	l2	l3	l4					
5.9	3	External coolant	Straight shank	GD03-0590	6	66	28	20	36	M7x1		●		
	5			GD05-0590	6	82	44	35	36			●		
	3	Internal coolant		GD03C-0590	6	66	28	20	36			●		
	5			GD05C-0590	6	82	44	35	36			●		
	8			GD08C-0590	6	95	57	48	36			○		
5.95	3	External coolant		GD03-0595	6	66	28	20	36			1/4-28UNF		●
	5			GD05-0595	6	82	44	35	36					●
	3	Internal coolant		GD03C-0595	6	66	28	20	36					●
	5			GD05C-0595	6	82	44	35	36					●
	8			GD08C-0600	6	95	57	48	36					○
6.0	3	External coolant	GD03-0600	6	66	28	20	36	M7x1		●			
	5		GD05-0600	6	82	44	35	36			●			
	3	Internal coolant	GD03C-0600	6	66	28	20	36			●			
	5		GD05C-0600	6	82	44	35	36			●			
	8		GD08C-0600	6	95	57	48	36			○			
6.1	3	External coolant	GD03-0610S	7	79	34	24	36			○			
	5		GD05-0610S	7	91	53	43	36			○			
	3	Internal coolant	GD03C-0610S	7	79	34	24	36			○			
	5		GD05C-0610S	7	91	53	43	36			○			
	8		GD08C-0610	8	114	76	66	36			○			
	3	External coolant	GD03-0610	8	79	34	24	36			●			
	5		GD05-0610	8	91	53	43	36			●			
	3	Internal coolant	GD03C-0610	8	79	34	24	36			●			
5	GD05C-0610		8	91	53	43	36	●						
8	GD08C-0610		8	114	76	66	36	○						
6.2	3	External coolant	GD03-0620S	7	79	34	24	36			○			
	5		GD05-0620S	7	91	53	43	36			○			
	3	Internal coolant	GD03C-0620S	7	79	34	24	36			○			
	5		GD05C-0620S	7	91	53	43	36			○			
	8		GD08C-0620	8	114	76	66	36			○			
	3	External coolant	GD03-0620	8	79	34	24	36			●			
	5		GD05-0620	8	91	53	43	36			●			
	3	Internal coolant	GD03C-0620	8	79	34	24	36			●			
	5		GD05C-0620	8	91	53	43	36			●			
	8		GD08C-0620	8	114	76	66	36			○			

Note: For drilling depth (l/d) of 8, namely GD08C series, tolerance of shank diameter is h5.

● Stock available ○ Make-to-order

Drilling tools

GD series

▶▶ Applicable material table

⊙ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	⊙	⊙			○	⊙	⊙		○	

Code key
C6

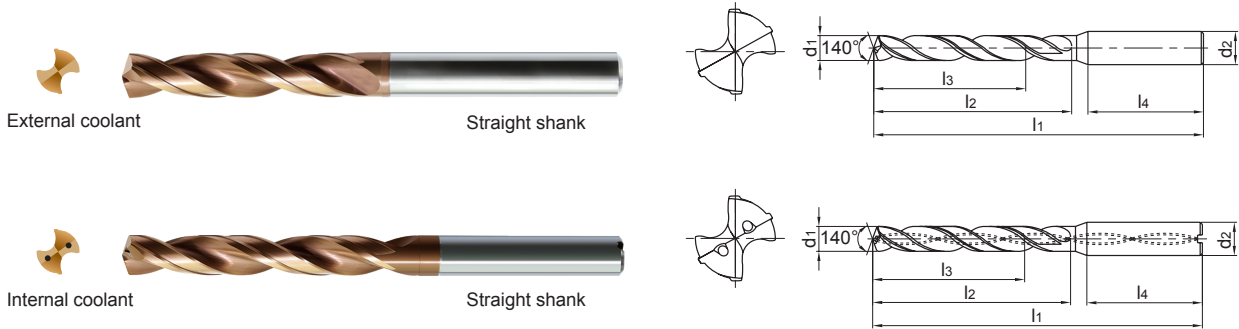
Cutting parameters
C79-C80

Technical information
C87-C93

Non-standard customization tools
C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter d2(h6)	Overall length l1	Flute length l2	Recommended drilling depth l3	Shank length l4	cutting taps / tread milling cutters	forming taps	
6.3	3	External coolant	Straight shank	GD03-0630S	7	79	34	24	36			○
	5			GD05-0630S	7	91	53	43	36			○
	3	Internal coolant		GD03C-0630S	7	79	34	24	36			○
	5			GD05C-0630S	7	91	53	43	36			○
	3	External coolant		GD03-0630	8	79	34	24	36			●
	5			GD05-0630	8	91	53	43	36			●
	3	Internal coolant		GD03C-0630	8	79	34	24	36			●
	5			GD05C-0630	8	91	53	43	36			●
8		GD08C-0630	8	114	76	66	36			○		
6.4	3	External coolant	GD03-0640S	7	79	34	24	36			○	
	5		GD05-0640S	7	91	53	43	36			○	
	3	Internal coolant	GD03C-0640S	7	79	34	24	36			○	
	5		GD05C-0640S	7	91	53	43	36			○	
	3	External coolant	GD03-0640	8	79	34	24	36			●	
	5		GD05-0640	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0640	8	79	34	24	36			●	
	5		GD05C-0640	8	91	53	43	36			●	
8		GD08C-0640	8	114	76	66	36			○		
6.5	3	External coolant	GD03-0650S	7	79	34	24	36			○	
	5		GD05-0650S	7	91	53	43	36			○	
	3	Internal coolant	GD03C-0650S	7	79	34	24	36			○	
	5		GD05C-0650S	7	91	53	43	36			○	
	3	External coolant	GD03-0650	8	79	34	24	36			●	
	5		GD05-0650	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0650	8	79	34	24	36			●	
	5		GD05C-0650	8	91	53	43	36			●	
8		GD08C-0650	8	114	76	66	36			○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
6.6	3	External coolant	Straight shank	GD03-0660S	7	79	34	24	36	5/16-18UNC	M7×1	○
	5			GD05-0660S	7	91	53	43	36			○
	3	Internal coolant		GD03C-0660S	7	79	34	24	36			○
	5			GD05C-0660S	7	91	53	43	36			○
	3	External coolant		GD03-0660	8	79	34	24	36			●
	5			GD05-0660	8	91	53	43	36			●
	3	Internal coolant		GD03C-0660	8	79	34	24	36			●
	5			GD05C-0660	8	91	53	43	36			●
8		GD08C-0660	8	114	76	66	36	○				
6.7	3	External coolant	GD03-0670S	7	79	34	24	36	M8×1.25		○	
	5		GD05-0670S	7	91	53	43	36			○	
	3	Internal coolant	GD03C-0670S	7	79	34	24	36			○	
	5		GD05C-0670S	7	91	53	43	36			○	
	3	External coolant	GD03-0670	8	79	34	24	36			●	
	5		GD05-0670	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0670	8	79	34	24	36			●	
	5		GD05C-0670	8	91	53	43	36			●	
8		GD08C-0670	8	114	76	66	36	○				
6.75	3	External coolant	GD03-0675S	7	79	34	24	36	M8×1.25		○	
	5		GD05-0675S	7	91	53	43	36			○	
	3	Internal coolant	GD03C-0675S	7	79	34	24	36			○	
	5		GD05C-0675S	7	91	53	43	36			○	
	3	External coolant	GD03-0675	8	79	34	24	36			●	
	5		GD05-0675	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0675	8	79	34	24	36			●	
	5		GD05C-0675	8	91	53	43	36			●	
6.8	3	External coolant	GD03-0680S	7	79	34	24	36			○	
	5		GD05-0680S	7	91	53	43	36			○	
	3	Internal coolant	GD03C-0680S	7	79	34	24	36			○	
	5		GD05C-0680S	7	91	53	43	36			○	
	3	External coolant	GD03-0680	8	79	34	24	36			●	
	5		GD05-0680	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0680	8	79	34	24	36			●	
	5		GD05C-0680	8	91	53	43	36			●	
8		GD08C-0680	8	114	76	66	36	○				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h5.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎		○	

Code key

C6

Cutting parameters

C79-C80

Technical information

C87-C93

Non-standard customization tools

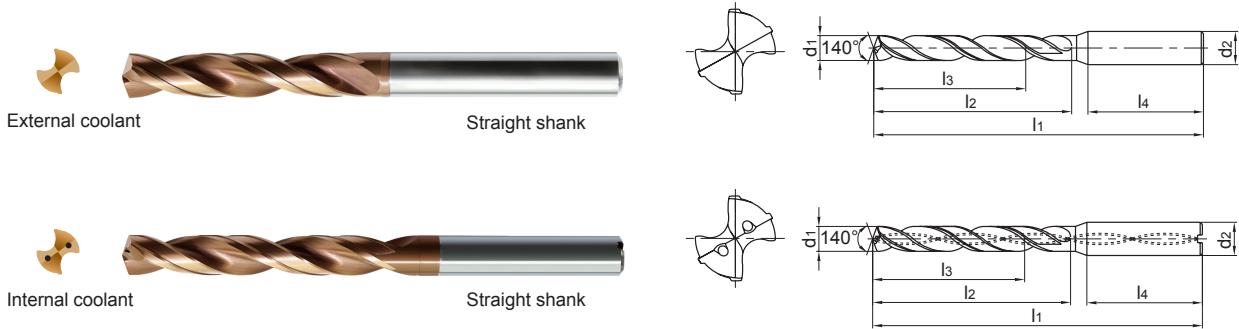
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
6.9	3	External coolant	Straight shank	GD03-0690S	7	79	34	24	36	5/16-24UNF		○
	5			GD05-0690S	7	91	53	43	36			○
	3	Internal coolant		GD03C-0690S	7	79	34	24	36			○
	5			GD05C-0690S	7	91	53	43	36			○
	3	External coolant		GD03-0690	8	79	34	24	36			●
	5			GD05-0690	8	91	53	43	36			●
	3	Internal coolant		GD03C-0690	8	79	34	24	36			●
	5			GD05C-0690	8	91	53	43	36			●
8		GD08C-0690	8	114	76	66	36	○				
7.0	3	External coolant	Straight shank	GD03-0700S	7	79	34	24	36	M8×1		○
	5			GD05-0700S	7	91	53	43	36			○
	3	Internal coolant		GD03C-0700S	7	79	34	24	36			○
	5			GD05C-0700S	7	91	53	43	36			○
	3	External coolant		GD03-0700	8	79	34	24	36			●
	5			GD05-0700	8	91	53	43	36			●
	3	Internal coolant		GD03C-0700	8	79	34	24	36			●
	5			GD05C-0700	8	91	53	43	36			●
8		GD08C-0700	8	116	76	66	36	○				
7.1	3	External coolant	Straight shank	GD03-0710	8	79	41	29	36			●
	5			GD05-0710	8	91	53	43	36			●
	3	Internal coolant		GD03C-0710	8	79	41	29	36			●
	5			GD05C-0710	8	91	53	43	36			●
	8			GD08C-0710	8	116	76	66	36			○
7.2	3	External coolant	Straight shank	GD03-0720	8	79	41	29	36			●
	5			GD05-0720	8	91	53	43	36			●
	3	Internal coolant		GD03C-0720	8	79	41	29	36			●
	5			GD05C-0720	8	91	53	43	36			●
	8			GD08C-0720	8	116	76	66	36			○

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
7.3	3	External coolant	Straight shank	GD03-0730	8	79	41	29	36	5/16-18UNC	●	
	5			GD05-0730	8	91	53	43	36		●	
	3	Internal coolant		GD03C-0730	8	79	41	29	36		●	
	5			GD05C-0730	8	91	53	43	36		●	
	8			GD08C-0730	8	116	76	66	36		○	
7.4	3	External coolant		GD03-0740	8	79	41	29	36		5/16-24UNF	●
	5			GD05-0740	8	91	53	43	36			●
	3	Internal coolant		GD03C-0740	8	79	41	29	36			●
	5			GD05C-0740	8	91	53	43	36			●
	8			GD08C-0740	8	116	76	66	36			○
7.45	3	External coolant	GD03-0745	8	79	41	29	36	M8×1.25	●		
	5		GD05-0745	8	91	53	43	36		●		
	3	Internal coolant	GD03C-0745	8	79	41	29	36		●		
	5		GD05C-0745	8	91	53	43	36		●		
	8		GD08C-0745	8	116	76	66	36		○		
7.5	3	External coolant	GD03-0750	8	79	41	29	36		M8×1	●	
	5		GD05-0750	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0750	8	79	41	29	36			●	
	5		GD05C-0750	8	91	53	43	36			●	
	8		GD08C-0750	8	116	76	66	36			○	
7.6	3	External coolant	GD03-0760	8	79	41	29	36	M8×1		●	
	5		GD05-0760	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0760	8	79	41	29	36			●	
	5		GD05C-0760	8	91	53	43	36			●	
	8		GD08C-0760	8	116	76	66	36			○	
7.7	3	External coolant	GD03-0770	8	79	41	29	36		M8×1	●	
	5		GD05-0770	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0770	8	79	41	29	36			●	
	5		GD05C-0770	8	91	53	43	36			●	
	8		GD08C-0770	8	116	76	66	36			○	
7.8	3	External coolant	GD03-0780	8	79	41	29	36	M8×1		●	
	5		GD05-0780	8	91	53	43	36			●	
	3	Internal coolant	GD03C-0780	8	79	41	29	36			●	
	5		GD05C-0780	8	91	53	43	36			●	
	8		GD08C-0780	8	116	76	66	36			○	

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎		○	

Code key

C6

Cutting parameters

C79-C80

Technical information

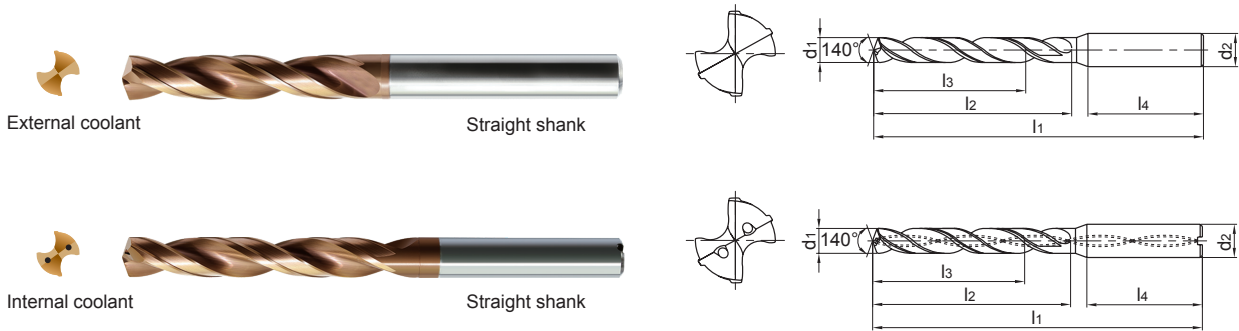
C87-C93

Non-standard customization tools

C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade		
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps			
					d2(h6)	l1	l2	l3	l4					
7.9	3	External coolant	Straight shank	GD03-0790	8	79	41	29	36	3/8-16UNC		●		
	5			GD05-0790	8	91	53	43	36			●		
	3	Internal coolant		GD03C-0790	8	79	41	29	36			●		
	5			GD05C-0790	8	91	53	43	36			●		
	8			GD08C-0790	8	116	76	66	36			○		
8.0	3	External coolant		GD03-0800	8	79	41	29	36			3/8-16UNC		●
	5			GD05-0800	8	91	53	43	36					●
	3	Internal coolant		GD03C-0800	8	79	41	29	36					●
	5			GD05C-0800	8	91	53	43	36					●
	8			GD08C-0800	8	116	76	66	36					○
8.1	3	External coolant	GD03-0810S	9	89	47	35	40	3/8-16UNC		○			
	5		GD05-0810S	9	103	61	49	40			○			
	3	Internal coolant	GD03C-0810S	9	89	47	35	40			○			
	5		GD05C-0810S	9	103	61	49	40			○			
	3		External coolant	GD03-0810	10	89	47	35			40			●
	5	GD05-0810		10	103	61	49	40			●			
	3	Internal coolant	GD03C-0810	10	89	47	35	40			●			
	5		GD05C-0810	10	103	61	49	40			●			
	8		GD08C-0810	10	142	95	83	40			○			
	8.2	3	External coolant	GD03-0820S	9	89	47	35			40	3/8-16UNC		○
5		GD05-0820S		9	103	61	49	40	○					
3		Internal coolant	GD03C-0820S	9	89	47	35	40	○					
5			GD05C-0820S	9	103	61	49	40	○					
3			External coolant	GD03-0820	10	89	47	35	40	●				
5		GD05-0820		10	103	61	49	40	●					
3		Internal coolant	GD03C-0820	10	89	47	35	40	●					
5			GD05C-0820	10	103	61	49	40	●					
8			GD08C-0820	10	142	95	83	40	○					

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
8.3	3	External coolant	Straight shank	GD03-0830S	9	89	47	35	40	M10×1.5 3/8-24UNF		○
	5			GD05-0830S	9	103	61	49	40			○
	3	Internal coolant		GD03C-0830S	9	89	47	35	40			○
	5			GD05C-0830S	9	103	61	49	40			○
	3	External coolant		GD03-0830	10	89	47	35	40			●
	5			GD05-0830	10	103	61	49	40			●
	3	Internal coolant		GD03C-0830	10	89	47	35	40			●
	5			GD05C-0830	10	103	61	49	40			●
	8			GD08C-0830	10	142	95	83	40			○
8.4	3	External coolant		GD03-0840S	9	89	47	35	40			○
	5			GD05-0840S	9	103	61	49	40			○
	3	Internal coolant		GD03C-0840S	9	89	47	35	40			○
	5			GD05C-0840S	9	103	61	49	40			○
	3	External coolant		GD03-0840	10	89	47	35	40			●
	5			GD05-0840	10	103	61	49	40			●
	3	Internal coolant		GD03C-0840	10	89	47	35	40			●
	5			GD05C-0840	10	103	61	49	40			●
	8			GD08C-0840	10	142	95	83	40			○
8.5	3	External coolant	GD03-0850S	9	89	47	35	40	○			
	5		GD05-0850S	9	103	61	49	40	○			
	3	Internal coolant	GD03C-0850S	9	89	47	35	40	○			
	5		GD05C-0850S	9	103	61	49	40	○			
	3	External coolant	GD03-0850	10	89	47	35	40	●			
	5		GD05-0850	10	103	61	49	40	●			
	3	Internal coolant	GD03C-0850	10	89	47	35	40	●			
	5		GD05C-0850	10	103	61	49	40	●			
	8		GD08C-0850	10	142	95	83	40	○			
8.6	3	External coolant	GD03-0860S	9	89	47	35	40	○			
	5		GD05-0860S	9	103	61	49	40	○			
	3	Internal coolant	GD03C-0860S	9	89	47	35	40	○			
	5		GD05C-0860S	9	103	61	49	40	○			
	3	External coolant	GD03-0860	10	89	47	35	40	●			
	5		GD05-0860	10	103	61	49	40	●			
	3	Internal coolant	GD03C-0860	10	89	47	35	40	●			
	5		GD05C-0860	10	103	61	49	40	●			
	8		GD08C-0860	10	142	95	83	40	○			

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

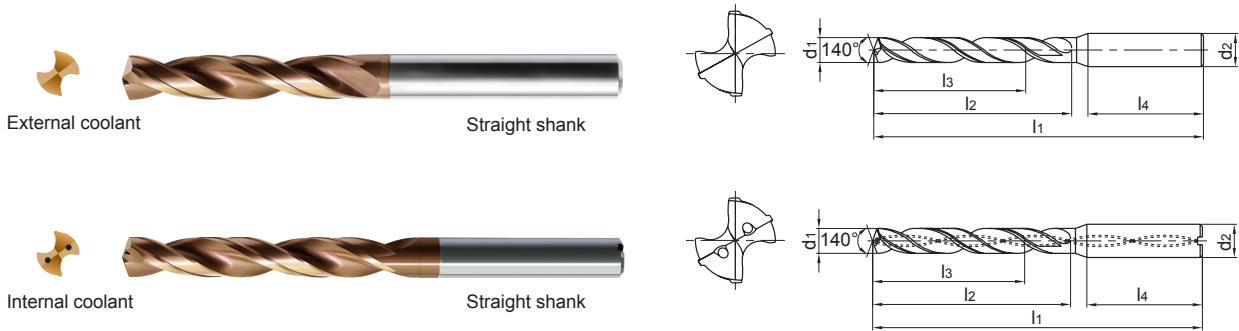
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
8.7	3	External coolant	Straight shank	GD03-0870S	9	89	47	35	40	M10×1.25		○
	5			GD05-0870S	9	103	61	49	40			○
	3	Internal coolant		GD03C-0870S	9	89	47	35	40			○
	5			GD05C-0870S	9	103	61	49	40			○
	3	External coolant		GD03-0870	10	89	47	35	40			●
	5			GD05-0870	10	103	61	49	40			●
	3	Internal coolant		GD03C-0870	10	89	47	35	40			●
	5			GD05C-0870	10	103	61	49	40			●
8		GD08C-0870	10	142	95	83	40	○				
8.75	3	External coolant	GD03-0875S	9	89	47	35	40	M10×1.25		○	
	5		GD05-0875S	9	103	61	49	40			○	
	3	Internal coolant	GD03C-0875S	9	89	47	35	40			○	
	5		GD05C-0875S	9	103	61	49	40			○	
	3	External coolant	GD03-0875	10	89	47	35	40			●	
	5		GD05-0875	10	103	61	49	40			●	
	3	Internal coolant	GD03C-0875	10	89	47	35	40			●	
	5		GD05C-0875	10	103	61	49	40			●	
8.8	3	External coolant	GD03-0880S	9	89	47	35	40	3/8-16UNC		○	
	5		GD05-0880S	9	103	61	49	40			○	
	3	Internal coolant	GD03C-0880S	9	89	47	35	40			○	
	5		GD05C-0880S	9	103	61	49	40			○	
	3	External coolant	GD03-0880	10	89	47	35	40			●	
	5		GD05-0880	10	103	61	49	40			●	
	3	Internal coolant	GD03C-0880	10	89	47	35	40			●	
	5		GD05C-0880	10	103	61	49	40			●	
	8		GD08C-0880	10	142	95	83	40			○	

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
8.9	3	External coolant	Straight shank	GD03-0890S	9	89	47	35	40	M10×1	3/8-24UNF	○
	5			GD05-0890S	9	103	61	49	40			○
	3	Internal coolant		GD03C-0890S	9	89	47	35	40			○
	5			GD05C-0890S	9	103	61	49	40			○
	3	External coolant		GD03-0890	10	89	47	35	40			●
	5			GD05-0890	10	103	61	49	40			●
	3	Internal coolant		GD03C-0890	10	89	47	35	40			●
	5			GD05C-0890	10	103	61	49	40			●
	8			GD08C-0890	10	142	95	83	40			○
9.0	3	External coolant	GD03-0900S	9	89	47	35	40	M10×1	3/8-24UNF	○	
	5		GD05-0900S	9	103	61	49	40			○	
	3	Internal coolant	GD03C-0900S	9	89	47	35	40			○	
	5		GD05C-0900S	9	103	61	49	40			○	
	3	External coolant	GD03-0900	10	89	47	35	40			●	
	5		GD05-0900	10	103	61	49	40			●	
	3	Internal coolant	GD03C-0900	10	89	47	35	40			●	
	5		GD05C-0900	10	103	61	49	40			●	
	8		GD08C-0900	10	142	95	83	40			○	
9.1	3	External coolant	GD03-0910	10	89	47	35	40	M10×1	3/8-24UNF	●	
	5		GD05-0910	10	103	61	49	40			●	
	3	Internal coolant	GD03C-0910	10	89	47	35	40			●	
	5		GD05C-0910	10	103	61	49	40			●	
	8		GD08C-0910	10	142	95	83	40			○	
	3	External coolant	GD03-0920	10	89	47	35	40			●	
5	GD05-0920		10	103	61	49	40	●				
9.2	3	Internal coolant	GD03C-0920	10	89	47	35	40	M10×1	3/8-24UNF	●	
	5		GD05C-0920	10	103	61	49	40			●	
	8		GD08C-0920	10	142	95	83	40			○	
	3	External coolant	GD03-0930	10	89	47	35	40			●	
5	GD05-0930		10	103	61	49	40	●				
9.3	3	Internal coolant	GD03C-0930	10	89	47	35	40	M10×1	3/8-24UNF	●	
	5		GD05C-0930	10	103	61	49	40			●	
	8		GD08C-0930	10	142	95	83	40			○	
	3	External coolant	GD03-0930	10	89	47	35	40			●	
5	GD05-0930		10	103	61	49	40	●				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key

C6

Cutting parameters

C79-C80

Technical information

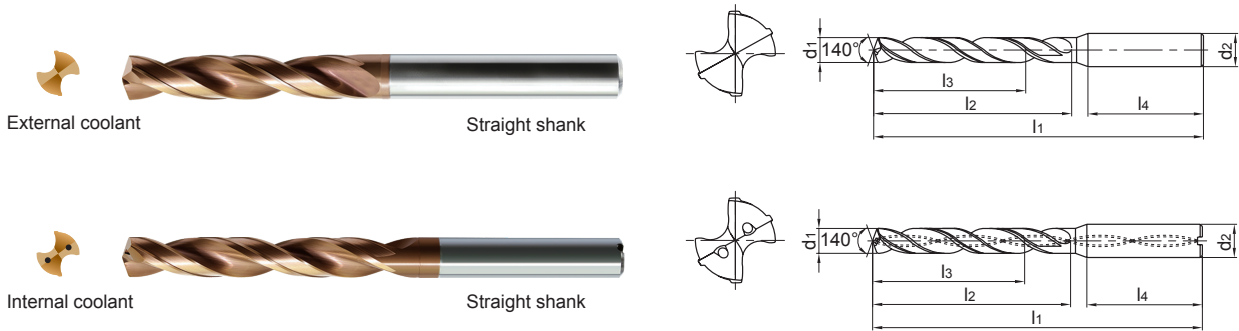
C87-C93

Non-standard customization tools

C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps		
					d2(h6)	l1	l2	l3	l4				
9.35	3	External coolant	Straight shank	GD03-0935	10	89	47	35	40	7/16-14UNC	M10×1.5	●	
	5			GD05-0935	10	103	61	49	40			●	
	3	Internal coolant		GD03C-0935	10	89	47	35	40			●	
	5			GD05C-0935	10	103	61	49	40			●	
9.4	3	External coolant		GD03-0940	10	89	47	35	40				●
	5			GD05-0940	10	103	61	49	40				●
	3	Internal coolant		GD03C-0940	10	89	47	35	40				●
	5			GD05C-0940	10	103	61	49	40				●
	8		GD08C-0940	10	142	95	83	40	○				
9.45	3	External coolant	GD03-0945	10	89	47	35	40		M10×1.25	●		
	5		GD05-0945	10	103	61	49	40			●		
	3	Internal coolant	GD03C-0945	10	89	47	35	40			●		
	5		GD05C-0945	10	103	61	49	40			●		
9.5	3	External coolant	GD03-0950	10	89	47	35	40			●		
	5		GD05-0950	10	103	61	49	40			●		
	3	Internal coolant	GD03C-0950	10	89	47	35	40			●		
	5		GD05C-0950	10	103	61	49	40			●		
	8		GD08C-0950	10	142	95	83	40			○		
9.6	3	External coolant	GD03-0960	10	89	47	35	40		M10×1	●		
	5		GD05-0960	10	103	61	49	40			●		
	3	Internal coolant	GD03C-0960	10	89	47	35	40			●		
	5		GD05C-0960	10	103	61	49	40			●		
	8		GD08C-0960	10	142	95	83	40			○		
9.7	3	External coolant	GD03-0970	10	89	47	35	40			●		
	5		GD05-0970	10	103	61	49	40			●		
	3	Internal coolant	GD03C-0970	10	89	47	35	40			●		
	5		GD05C-0970	10	103	61	49	40			●		
	8		GD08C-0970	10	142	95	83	40			○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
9.8	3	External coolant	Straight shank	GD03-0980	10	89	47	35	40	7/16-20UNF		●
	5			GD05-0980	10	103	61	49	40			●
	3	Internal coolant		GD03C-0980	10	89	47	35	40			●
	5			GD05C-0980	10	103	61	49	40			●
	8			GD08C-0980	10	142	95	83	40			○
9.9	3	External coolant		GD03-0990	10	89	47	35	40			●
	5			GD05-0990	10	103	61	49	40			●
	3	Internal coolant		GD03C-0990	10	89	47	35	40			●
	5			GD05C-0990	10	103	61	49	40			●
	8			GD08C-0990	10	142	95	83	40			○
10.0	3	External coolant	GD03-1000	10	89	47	35	40	●			
	5		GD05-1000	10	103	61	49	40	●			
	3	Internal coolant	GD03C-1000	10	89	47	35	40	●			
	5		GD05C-1000	10	103	61	49	40	●			
	8		GD08C-1000	10	142	95	83	40	○			
10.1	3	External coolant	GD03-1010S	11	102	55	40	45	○			
	5		GD05-1010S	11	118	71	56	45	○			
	3	Internal coolant	GD03C-1010S	11	102	55	40	45	○			
	5		GD05C-1010S	11	118	71	56	45	○			
	3		External coolant	GD03-1010	12	102	55	40	45	●		
	5	GD05-1010		12	118	71	56	45	●			
	3	Internal coolant		GD03C-1010	12	102	55	40	45	●		
	5		GD05C-1010	12	118	71	56	45	●			
8	GD08C-1010		12	162	114	99	45	○				
10.2	3	External coolant	GD03-1020S	11	102	55	40	45	○			
	5		GD05-1020S	11	118	71	56	45	○			
	3	Internal coolant	GD03C-1020S	11	102	55	40	45	○			
	5		GD05C-1020S	11	118	71	56	45	○			
	3		External coolant	GD03-1020	12	102	55	40	45	●		
	5	GD05-1020		12	118	71	56	45	●			
	3	Internal coolant		GD03C-1020	12	102	55	40	45	●		
	5		GD05C-1020	12	118	71	56	45	●			
8	GD08C-1020		12	162	114	99	45	○				

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

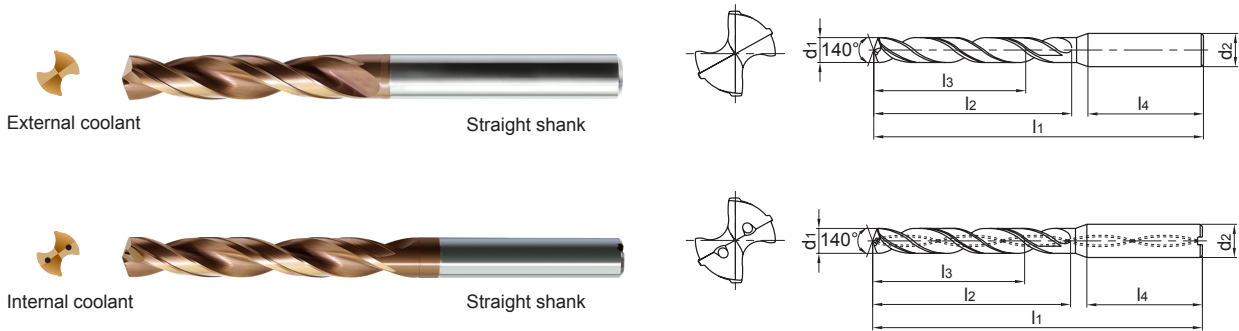
Cutting parameters
C79-C80

Technical information
C87-C93

Non-standard customization tools
C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps		
					d2(h6)	l1	l2	l3	l4				
10.25	3	External coolant	Straight shank	GD03-1025S	11	102	55	40	45	M12×1.75		○	
	5			GD05-1025S	11	118	71	56	45			○	
	3	Internal coolant		GD03C-1025S	11	102	55	40	45			○	
	5			GD05C-1025S	11	118	71	56	45			○	
	3	External coolant		GD03-1025	12	102	55	40	45			7/16-14UNC	●
	5			GD05-1025	12	118	71	56	45				●
	3	Internal coolant		GD03C-1025	12	102	55	40	45				●
	5			GD05C-1025	12	118	71	56	45				●
10.3	3	External coolant	GD03-1030S	11	102	55	40	45			○		
	5		GD05-1030S	11	118	71	56	45			○		
	3	Internal coolant	GD03C-1030S	11	102	55	40	45			○		
	5		GD05C-1030S	11	118	71	56	45			○		
	3	External coolant	GD03-1030	12	102	55	40	45			●		
	5		GD05-1030	12	118	71	56	45			●		
	3	Internal coolant	GD03C-1030	12	102	55	40	45			●		
	5		GD05C-1030	12	118	71	56	45			●		
10.4	3	External coolant	GD03-1040S	11	102	55	40	45			○		
	5		GD05-1040S	11	118	71	56	45			○		
	3	Internal coolant	GD03C-1040S	11	102	55	40	45			○		
	5		GD05C-1040S	11	118	71	56	45			○		
	3	External coolant	GD03-1040	12	102	55	40	45			●		
	5		GD05-1040	12	118	71	56	45			●		
	3	Internal coolant	GD03C-1040	12	102	55	40	45			●		
	5		GD05C-1040	12	118	71	56	45			●		
8		GD08C-1040	12	162	114	99	45	○					

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
10.5	3	External coolant	Straight shank	GD03-1050S	11	102	55	40	45	M12×1.5	7/16-20UNF	○
	5			GD05-1050S	11	118	71	56	45			○
	3	Internal coolant		GD03C-1050S	11	102	55	40	45			○
	5			GD05C-1050S	11	118	71	56	45			○
	3	External coolant		GD03-1050	12	102	55	40	45			●
	5			GD05-1050	12	118	71	56	45			●
	3	Internal coolant		GD03C-1050	12	102	55	40	45			●
	5			GD05C-1050	12	118	71	56	45			●
	8			GD08C-1050	12	162	114	99	45			○
10.6	3	External coolant		GD03-1060S	11	102	55	40	45	○		
	5			GD05-1060S	11	118	71	56	45	○		
	3	Internal coolant		GD03C-1060S	11	102	55	40	45	○		
	5			GD05C-1060S	11	118	71	56	45	○		
	3	External coolant		GD03-1060	12	102	55	40	45	●		
	5			GD05-1060	12	118	71	56	45	●		
	3	Internal coolant		GD03C-1060	12	102	55	40	45	●		
	5			GD05C-1060	12	118	71	56	45	●		
	8			GD08C-1060	12	162	114	99	45	○		
10.7	3	External coolant	GD03-1070S	11	102	55	40	45	○			
	5		GD05-1070S	11	118	71	56	45	○			
	3	Internal coolant	GD03C-1070S	11	102	55	40	45	○			
	5		GD05C-1070S	11	118	71	56	45	○			
	3	External coolant	GD03-1070	12	102	55	40	45	●			
	5		GD05-1070	12	118	71	56	45	●			
	3	Internal coolant	GD03C-1070	12	102	55	40	45	●			
	5		GD05C-1070	12	118	71	56	45	●			
	8		GD08C-1070	12	162	114	99	45	○			
10.75	3	External coolant	GD03-1075S	11	102	55	40	45	○			
	5		GD05-1075S	11	118	71	56	45	○			
	3	Internal coolant	GD03C-1075S	11	102	55	40	45	○			
	5		GD05C-1075S	11	118	71	56	45	○			
	3	External coolant	GD03-1075	12	102	55	40	45	●			
	5		GD05-1075	12	118	71	56	45	●			
	3	Internal coolant	GD03C-1075	12	102	55	40	45	●			
	5		GD05C-1075	12	118	71	56	45	●			

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h5.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

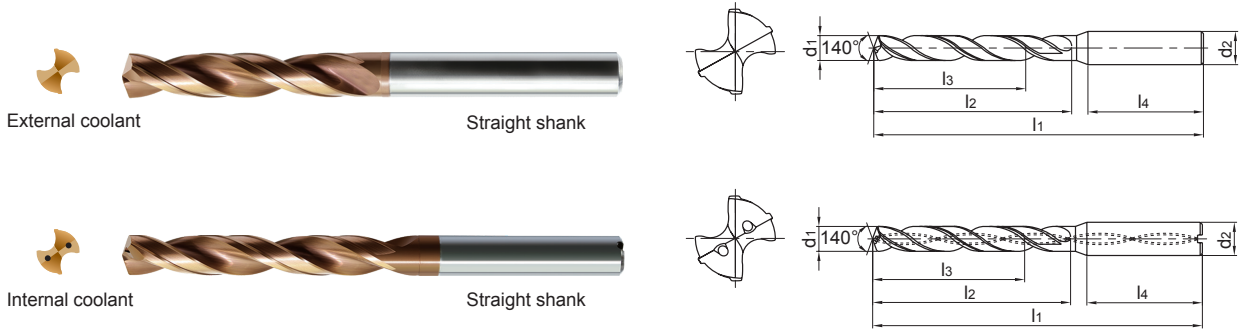
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
10.8	3	External coolant	Straight shank	GD03-1080S	11	102	55	40	45	1/2-13UNC		○
	5			GD05-1080S	11	118	71	56	45		○	
	3	Internal coolant		GD03C-1080S	11	102	55	40	45		○	
	5			GD05C-1080S	11	118	71	56	45		○	
	3	External coolant		GD03-1080	12	102	55	40	45		●	
	5			GD05-1080	12	118	71	56	45		●	
	3	Internal coolant		GD03C-1080	12	102	55	40	45		●	
	5			GD05C-1080	12	118	71	56	45		●	
8		GD08C-1080		12	162	114	99	45	○			
10.9	3	External coolant		GD03-1090S	11	102	55	40	45	○		
	5			GD05-1090S	11	118	71	56	45	○		
	3	Internal coolant		GD03C-1090S	11	102	55	40	45	○		
	5			GD05C-1090S	11	118	71	56	45	○		
	3	External coolant		GD03-1090	12	102	55	40	45	●		
	5			GD05-1090	12	118	71	56	45	●		
	3	Internal coolant		GD03C-1090	12	102	55	40	45	●		
	5		GD05C-1090	12	118	71	56	45	●			
8		GD08C-1090	12	162	114	99	45	○				
11.0	3	External coolant	GD03-1100S	11	102	55	40	45	○			
	5		GD05-1100S	11	118	71	56	45	○			
	3	Internal coolant	GD03C-1100S	11	102	55	40	45	○			
	5		GD05C-1100S	11	118	71	56	45	○			
	3	External coolant	GD03-1100	12	102	55	40	45	●			
	5		GD05-1100	12	118	71	56	45	●			
	3	Internal coolant	GD03C-1100	12	102	55	40	45	●			
	5		GD05C-1100	12	118	71	56	45	●			
8		GD08C-1100	12	162	114	99	45	○				

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade		
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps			
					d2(h6)	l1	l2	l3	l4					
11.1	3	External coolant	Straight shank	GD03-1110	12	102	55	40	45			●		
	5			GD05-1110	12	118	71	56	45			●		
	3	Internal coolant		GD03C-1110	12	102	55	40	45			●		
	5			GD05C-1110	12	118	71	56	45			●		
	8			GD08C-1110	12	162	114	99	45			○		
11.2	3	External coolant		GD03-1120	12	102	55	40	45					●
	5			GD05-1120	12	118	71	56	45					●
	3	Internal coolant		GD03C-1120	12	102	55	40	45					●
	5			GD05C-1120	12	118	71	56	45					●
	8			GD08C-1120	12	162	114	99	45					○
11.25	3	External coolant	GD03-1125	12	102	55	40	45		M12×1.75	●			
	5		GD05-1125	12	118	71	56	45			●			
	3	Internal coolant	GD03C-1125	12	102	55	40	45			●			
	5		GD05C-1125	12	118	71	56	45			●			
	8		GD08C-1130	12	162	114	99	45			○			
11.3	3	External coolant	GD03-1130	12	102	55	40	45					●	
	5		GD05-1130	12	118	71	56	45					●	
	3	Internal coolant	GD03C-1130	12	102	55	40	45					●	
	5		GD05C-1130	12	118	71	56	45					●	
	8		GD08C-1130	12	162	114	99	45					○	
11.35	3	External coolant	GD03-1135	12	102	55	40	45		M12×1.5			●	
	5		GD05-1135	12	118	71	56	45					●	
	3	Internal coolant	GD03C-1135	12	102	55	40	45					●	
	5		GD05C-1135	12	118	71	56	45					●	
	8		GD08C-1140	12	162	114	99	45					○	
11.4	3	External coolant	GD03-1140	12	102	55	40	45					●	
	5		GD05-1140	12	118	71	56	45					●	
	3	Internal coolant	GD03C-1140	12	102	55	40	45					●	
	5		GD05C-1140	12	118	71	56	45					●	
	8		GD08C-1140	12	162	114	99	45					○	
11.45	3	External coolant	GD03-1145	12	102	55	40	45		M12×1.25			●	
	5		GD05-1145	12	118	71	56	45					●	
	3	Internal coolant	GD03C-1145	12	102	55	40	45					●	
	5		GD05C-1145	12	118	71	56	45					●	
	8		GD08C-1145	12	162	114	99	45					○	

Note: For drilling depth (l/d) of 8, namely GD08C series, tolerance of shank diameter is h8.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎		○	

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

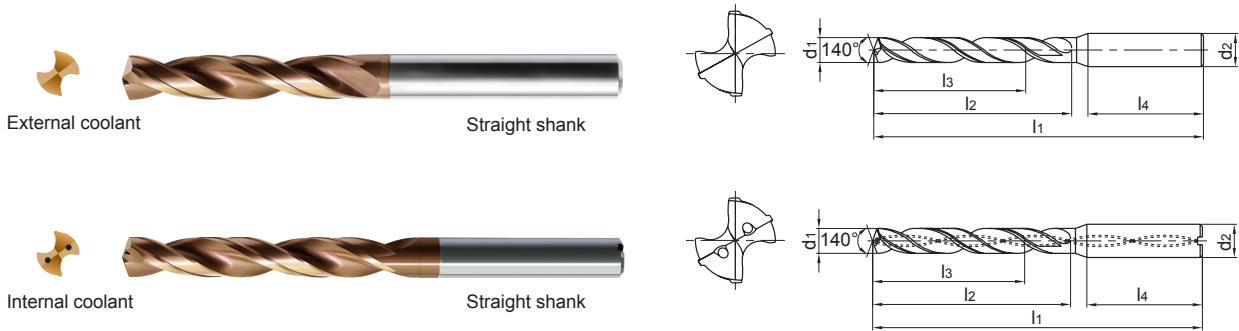
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
11.5	3	External coolant	Straight shank	GD03-1150	12	102	55	40	45	1/2-20UNF		●
	5			GD05-1150	12	118	71	56	45			●
	3	GD03C-1150		12	102	55	40	45	●			
	5	GD05C-1150		12	118	71	56	45	●			
	8	GD08C-1150		12	162	114	99	45	○			
11.6	3	External coolant		GD03-1160	12	102	55	40	45			●
	5			GD05-1160	12	118	71	56	45			●
	3	Internal coolant		GD03C-1160	12	102	55	40	45			●
	5			GD05C-1160	12	118	71	56	45			●
	8			GD08C-1160	12	162	114	99	45			○
11.7	3	External coolant	GD03-1170	12	102	55	40	45		●		
	5		GD05-1170	12	118	71	56	45		●		
	3	Internal coolant	GD03C-1170	12	102	55	40	45		●		
	5		GD05C-1170	12	118	71	56	45		●		
	8		GD08C-1170	12	162	114	99	45		○		
11.8	3	External coolant	GD03-1180	12	102	55	40	45	1/2-13UNC	●		
	5		GD05-1180	12	118	71	56	45		●		
	3	Internal coolant	GD03C-1180	12	102	55	40	45		●		
	5		GD05C-1180	12	118	71	56	45		●		
	8		GD08C-1180	12	162	114	99	45		○		
11.9	3	External coolant	GD03-1190	12	102	55	40	45		●		
	5		GD05-1190	12	118	71	56	45		●		
	3	Internal coolant	GD03C-1190	12	102	55	40	45		●		
	5		GD05C-1190	12	118	71	56	45		●		
12.0	3	External coolant	GD03-1200	12	102	55	40	45	M14×2		●	
	5		GD05-1200	12	118	71	56	45			●	
	3	Internal coolant	GD03C-1200	12	102	55	40	45			●	
	5		GD05C-1200	12	118	71	56	45			●	
	8		GD08C-1200	12	162	114	99	45			○	

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
12.1	3	External coolant	Straight shank	GD03-1210	14	107	60	43	45		1/2-20UNF	●
	5			GD05-1210	14	124	77	60	45			●
	3	Internal coolant		GD03C-1210	14	107	60	43	45			●
	5			GD05C-1210	14	124	77	60	45			●
12.2	3	External coolant		GD03-1220	14	107	60	43	45	9/16-12UNC		●
	5			GD05-1220	14	124	77	60	45			●
	3	Internal coolant		GD03C-1220	14	107	60	43	45			●
	5			GD05C-1220	14	124	77	60	45			●
12.25	3	External coolant	GD03-1225	14	107	60	43	45			●	
	5		GD05-1225	14	124	77	60	45			●	
	3	Internal coolant	GD03C-1225	14	107	60	43	45			●	
	5		GD05C-1225	14	124	77	60	45			●	
12.3	3	External coolant	GD03-1230	14	107	60	43	45			●	
	5		GD05-1230	14	124	77	60	45			●	
	3	Internal coolant	GD03C-1230	14	107	60	43	45			●	
	5		GD05C-1230	14	124	77	60	45			●	
12.5	3	External coolant	GD03-1250	14	107	60	43	45	M14×1.5		●	
	5		GD05-1250	14	124	77	60	45			●	
	3	Internal coolant	GD03C-1250	14	107	60	43	45			●	
	5		GD05C-1250	14	124	77	60	45			●	
	8		GD08C-1250	14	178	133	116	45			○	
	3		External coolant	GD03-1270	14	107	60	43			45	●
5	GD05-1270	14		124	77	60	45	●				
12.7	3	Internal coolant	GD03C-1270	14	107	60	43	45	●			
	5		GD05C-1270	14	124	77	60	45	●			
	8	GD08C-1270	14	178	133	116	45	○				
	12.75	3	External coolant	GD03-1275	14	107	60	43	45			●
5		GD05-1275		14	124	77	60	45	●			
3		Internal coolant	GD03C-1275	14	107	60	43	45	●			
5			GD05C-1275	14	124	77	60	45	●			
12.8	3	External coolant	GD03-1280	14	107	60	43	45			●	
	5		GD05-1280	14	124	77	60	45			●	
	3	Internal coolant	GD03C-1280	14	107	60	43	45			●	
	5		GD05C-1280	14	124	77	60	45			●	
	8		GD08C-1280	14	178	133	116	45			○	

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h5.

● Stock available ○ Make-to-order

Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

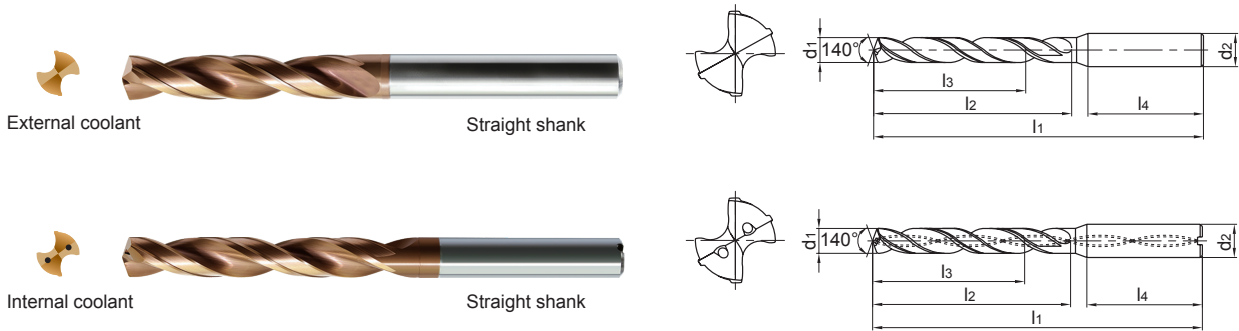
Cutting parameters
C79-C80

Technical information
C87-C93

Non-standard customization tools
C94-C98



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps		
					d2(h6)	l1	l2	l3	l4				
12.9	3	External coolant	Straight shank	GD03-1290	14	107	60	43	45	9/16-18UNF		●	
	5			GD05-1290	14	124	77	60	45			●	
	3	Internal coolant		GD03C-1290	14	107	60	43	45			●	
	5			GD05C-1290	14	124	77	60	45			●	
13.0	3	External coolant		GD03-1300	14	107	60	43	45			●	
	5			GD05-1300	14	124	77	60	45			●	
	3	Internal coolant		GD03C-1300	14	107	60	43	45			●	
	5			GD05C-1300	14	124	77	60	45			●	
	8		GD08C-1300	14	178	133	116	45	○				
	3		External coolant	GD03-1310	14	107	60	43	45			M14×2	●
5	GD05-1310	14		124	77	60	45	●					
13.1	3	Internal coolant	GD03C-1310	14	107	60	43	45			●		
	5		GD05C-1310	14	124	77	60	45			●		
	3	External coolant	GD03-1335	14	107	60	43	45			M14×1.5	●	
	5		GD05-1335	14	124	77	60	45				●	
13.35	3	Internal coolant	GD03C-1335	14	107	60	43	45	9/16-12UNC		●		
	5		GD05C-1335	14	124	77	60	45			●		
	3	External coolant	GD03-1350	14	107	60	43	45			5/8-11UNC		●
	5		GD05-1350	14	124	77	60	45					●
13.5	3	Internal coolant	GD03C-1350	14	107	60	43	45			●		
	5		GD05C-1350	14	124	77	60	45			●		
	8	GD08C-1350	14	178	133	116	45	○					
	3	External coolant	GD03-1365	14	107	60	43	45			9/16-18UNF		●
5	GD05-1365		14	124	77	60	45	●					
13.65	3	Internal coolant	GD03C-1365	14	107	60	43	45			●		
	5		GD05C-1365	14	124	77	60	45			●		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade		
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps			
					d2(h6)	l1	l2	l3	l4					
13.8	3	External coolant	Straight shank	GD03-1380	14	107	60	43	45	M16×2		●		
	5			GD05-1380	14	124	77	60	45			●		
	3	Internal coolant		GD03C-1380	14	107	60	43	45			●		
	5			GD05C-1380	14	124	77	60	45			●		
14.0	3	External coolant		GD03-1400	14	107	60	43	45			M16×1.5 5/8-18UNF		●
	5			GD05-1400	14	124	77	60	45					●
	3	Internal coolant		GD03C-1400	14	107	60	43	45					●
	5			GD05C-1400	14	124	77	60	45					●
14.25	8	External coolant	GD08C-1400	14	178	133	116	45			○			
	3		GD03-1425	16	115	65	45	48			●			
	5		GD05-1425	16	133	83	63	48			●			
	3		Internal coolant	GD03C-1425	16	115	65	45			48			●
5	GD05C-1425			16	133	83	63	48			●			
14.3	3		External coolant	GD03-1430	16	115	65	45			48			●
	5			GD05-1430	16	133	83	63			48			●
	3		Internal coolant	GD03C-1430	16	115	65	45			48			●
	5	GD05C-1430		16	133	83	63	48	●					
14.5	3	External coolant	GD03-1450	16	115	65	45	48	M16×1.5 5/8-18UNF		●			
	5		GD05-1450	16	133	83	63	48			●			
	3	Internal coolant	GD03C-1450	16	115	65	45	48			●			
	5		GD05C-1450	16	133	83	63	48			●			
14.75	8	External coolant	GD08C-1450	16	204	152	132	48					○	
	3		GD03-1475	16	115	65	45	48					●	
	5		GD05-1475	16	133	83	63	48					●	
	3		Internal coolant	GD03C-1475	16	115	65	45					48	●
5	GD05C-1475			16	133	83	63	48	●					
14.8	3		External coolant	GD03-1480	16	115	65	45	48	5/8-11UNC				●
	5			GD05-1480	16	133	83	63	48					●
	3		Internal coolant	GD03C-1480	16	115	65	45	48					●
	5	GD05C-1480		16	133	83	63	48	●					
15.0	8	External coolant	GD08C-1480	16	204	152	132	48				○		
	3		GD03-1500	16	115	65	45	48				●		
	5		GD05-1500	16	133	83	63	48				●		
	3		Internal coolant	GD03C-1500	16	115	65	45				48		●
5	GD05C-1500			16	133	83	63	48		●				
15.0	8		External coolant	GD08C-1500	16	204	152	132		48				○

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is hs.

● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

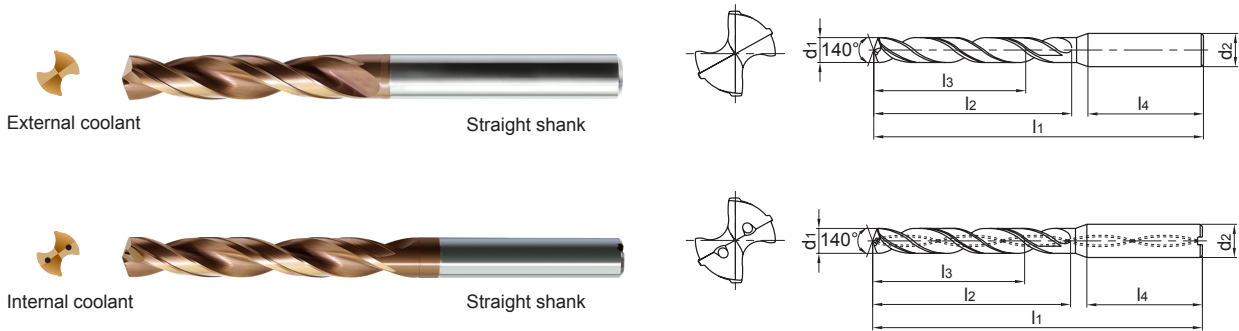
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
15.1	3	External coolant	Straight shank	GD03-1510	16	115	65	45	48	M16×2	●	
	5			GD05-1510	16	133	83	63	48		●	
	3	Internal coolant		GD03C-1510	16	115	65	45	48		●	
	5			GD05C-1510	16	133	83	63	48		●	
15.25	3	External coolant		GD03-1525	16	115	65	45	48	5/8-18UNF	●	
	5			GD05-1525	16	133	83	63	48		●	
	3	Internal coolant		GD03C-1525	16	115	65	45	48		●	
	5			GD05C-1525	16	133	83	63	48		●	
15.35	3	External coolant	GD03-1535	16	115	65	45	48	M16×1.5	●		
	5		GD05-1535	16	133	83	63	48		●		
	3	Internal coolant	GD03C-1535	16	115	65	45	48		●		
	5		GD05C-1535	16	133	83	63	48		●		
15.5	3	External coolant	GD03-1550	16	115	65	45	48	M18×2.5	●		
	5		GD05-1550	16	133	83	63	48		●		
	3	Internal coolant	GD03C-1550	16	115	65	45	48		●		
	5		GD05C-1550	16	133	83	63	48		●		
15.8	8		GD08C-1550	16	204	152	132	48		○		
	3	External coolant	GD03-1580	16	115	65	45	48		●		
	5		GD05-1580	16	133	83	63	48		●		
	3	Internal coolant	GD03C-1580	16	115	65	45	48		●		
5	GD05C-1580		16	133	83	63	48	●				
16.0	3	External coolant	GD03-1600	16	115	65	45	48	M18×2	●		
	5		GD05-1600	16	133	83	63	48		●		
	3	Internal coolant	GD03C-1600	16	115	65	45	48		●		
	5		GD05C-1600	16	133	83	63	48		●		
	8		GD08C-1600	16	204	152	132	48		○		

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade					
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps						
					d2(h6)	l1	l2	l3	l4								
16.5	3	External coolant	Straight shank	GD03-1650	18	123	73	51	48	3/4-10UNC		●					
	5			GD05-1650	18	143	93	71	48			●					
	3	Internal coolant		GD03C-1650	18	123	73	51	48			M18x2.5	●				
	5			GD05C-1650	18	143	93	71	48				●				
	8			GD08C-1650	18	223	171	149	48				○				
16.75	3	External coolant		GD03-1675	18	123	73	51	48				●				
	5			GD05-1675	18	143	93	71	48				●				
	3	Internal coolant		GD03C-1675	18	123	73	51	48				M20x2.5	3/4-16UNF	●		
	5			GD05C-1675	18	143	93	71	48						●		
	8			GD08C-1675	18	223	171	149	48						○		
16.8	3	External coolant	GD03-1680	18	123	73	51	48			●						
	5		GD05-1680	18	143	93	71	48			●						
	3	Internal coolant	GD03C-1680	18	123	73	51	48			M20x2				●		
	5		GD05C-1680	18	143	93	71	48							●		
	8		GD08C-1680	18	223	171	149	48							○		
17.0	3	External coolant	GD03-1700	18	123	73	51	48							●		
	5		GD05-1700	18	143	93	71	48							●		
	3	Internal coolant	GD03C-1700	18	123	73	51	48					3/4-10UNC		●		
	5		GD05C-1700	18	143	93	71	48							●		
	8		GD08C-1700	18	223	171	149	48							○		
17.5	3	External coolant	GD03-1750	18	123	73	51	48							●		
	5		GD05-1750	18	143	93	71	48							●		
	3	Internal coolant	GD03C-1750	18	123	73	51	48			M20x2				●		
	5		GD05C-1750	18	143	93	71	48							●		
	8		GD08C-1750	18	223	171	149	48							○		
17.8	3	External coolant	GD03-1780	18	123	73	51	48							●		
	5		GD05-1780	18	143	93	71	48							●		
	3	Internal coolant	GD03C-1780	18	123	73	51	48					3/4-10UNC		●		
	5		GD05C-1780	18	143	93	71	48							●		
17.9	3	External coolant	GD03-1790	18	123	73	51	48							●		
	5		GD05-1790	18	143	93	71	48							●		
	3	Internal coolant	GD03C-1790	18	123	73	51	48							M20x2		●
	5		GD05C-1790	18	143	93	71	48			●						
18.0	3	External coolant	GD03-1800	18	123	73	51	48			●						
	5		GD05-1800	18	143	93	71	48			●						
	3	Internal coolant	GD03C-1800	18	123	73	51	48			M20x2						●
	5		GD05C-1800	18	143	93	71	48									●
8	GD08C-1800	18	223	171	149	48	○										

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h5. ● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

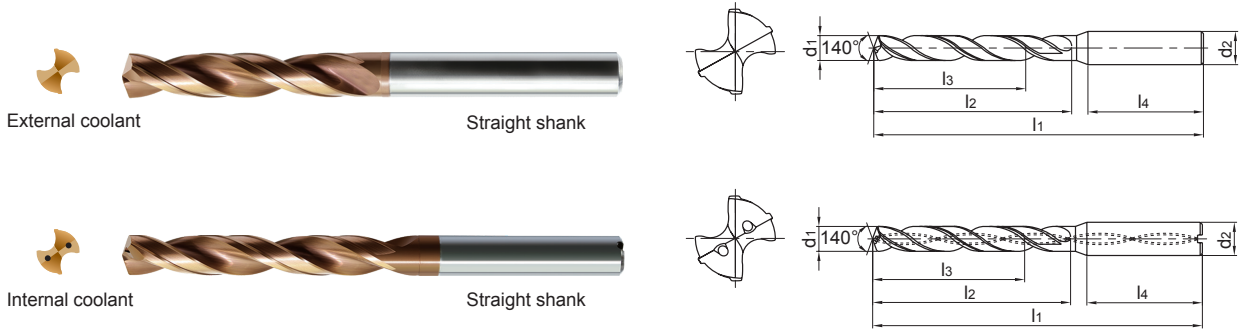
Non-standard customization tools
C94-C98

Drilling tools

GD series



GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
18.3	3	External coolant	Straight shank	GD03-1830	20	131	79	55	50		3/4-16UNF	●
	5			GD05-1830	20	153	101	77	50			●
	3	Internal coolant		GD03C-1830	20	131	79	55	50			●
	5			GD05C-1830	20	153	101	77	50			●
18.5	3	External coolant		GD03-1850	20	131	79	55	50			●
	5			GD05-1850	20	153	101	77	50			●
	3	Internal coolant		GD03C-1850	20	131	79	55	50			●
	5			GD05C-1850	20	153	101	77	50			●
18.8	3	External coolant	GD03-1880	20	131	79	55	50		M20×2.5	●	
	5		GD05-1880	20	153	101	77	50			●	
	3	Internal coolant	GD03C-1880	20	131	79	55	50			●	
	5		GD05C-1880	20	153	101	77	50			●	
19.0	3	External coolant	GD03-1900	20	131	79	55	50			●	
	5		GD05-1900	20	153	101	77	50			●	
	3	Internal coolant	GD03C-1900	20	131	79	55	50			●	
	5		GD05C-1900	20	153	101	77	50			●	
19.5	3	External coolant	GD03-1950	20	131	79	55	50	M22×2.5 7/8-9UNC		●	
	5		GD05-1950	20	153	101	77	50			●	
	3	Internal coolant	GD03C-1950	20	131	79	55	50			●	
	5		GD05C-1950	20	153	101	77	50			●	
19.8	3	External coolant	GD03-1980	20	131	79	55	50			●	
	5		GD05-1980	20	153	101	77	50			●	
	3	Internal coolant	GD03C-1980	20	131	79	55	50			●	
	5		GD05C-1980	20	153	101	77	50			●	
20.0	3	External coolant	GD03-2000	20	131	79	55	50	M22×2		●	
	5		GD05-2000	20	153	101	77	50			●	
	3	Internal coolant	GD03C-2000	20	131	79	55	50			●	
	5		GD05C-2000	20	153	101	77	50			●	

● Stock available ○ Make-to-order



Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps	
					d2(h6)	l1	l2	l3	l4			
20.4	3	External coolant	Straight shank	GD03-2040	20	141	86	60	50	7/8-14UNF		○
	5			GD05-2040	20	167	112	85	50			○
	3	Internal coolant		GD03C-2040	20	141	86	60	50			○
	5			GD05C-2040	20	167	112	85	50			○
20.5	3	External coolant		GD03-2050	20	141	86	60	50			○
	5			GD05-2050	20	167	112	85	50			○
	3	Internal coolant		GD03C-2050	20	141	86	60	50			○
	5			GD05C-2050	20	167	112	85	50			○
21.0	3	External coolant	GD03-2100	20	141	86	60	50	M24×3	7/8-9UNC	○	
	5		GD05-2100	20	167	112	85	50			○	
	3	Internal coolant	GD03C-2100	20	141	86	60	50			○	
	5		GD05C-2100	20	167	112	85	50			○	
21.4	3	External coolant	GD03-2140	20	141	86	60	50		7/8-14UNF	○	
	5		GD05-2140	20	167	112	85	50			○	
	3	Internal coolant	GD03C-2140	20	141	86	60	50			○	
	5		GD05C-2140	20	167	112	85	50			○	
21.5	3	External coolant	GD03-2150	20	141	86	60	50			○	
	5		GD05-2150	20	167	112	85	50			○	
	3	Internal coolant	GD03C-2150	20	141	86	60	50			○	
	5		GD05C-2150	20	167	112	85	50			○	
22.0	3	External coolant	GD03-2200	20	141	86	60	50	M24×2		○	
	5		GD05-2200	20	167	112	85	50			○	
	3	Internal coolant	GD03C-2200	20	141	86	60	50			○	
	5		GD05C-2200	20	167	112	85	50			○	
22.25	3	External coolant	GD03-2225	25	153	95	65	56	1-8UNC		○	
	5		GD05-2225	25	184	126	98	56			○	
	3	Internal coolant	GD03C-2225	25	153	95	65	56			○	
	5		GD05C-2225	25	184	126	98	56			○	
22.5	3	External coolant	GD03-2250	25	153	95	65	56			○	
	5		GD05-2250	25	184	126	98	56			○	
	3	Internal coolant	GD03C-2250	25	153	95	65	56			○	
	5		GD05C-2250	25	184	126	98	56			○	
23.0	3	External coolant	GD03-2300	25	153	95	65	56	M25×2		○	
	5		GD05-2300	25	184	126	98	56			○	
	3	Internal coolant	GD03C-2300	25	153	95	65	56			○	
	5		GD05C-2300	25	184	126	98	56			○	

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h5. ● Stock available ○ Make-to-order

▶▶ Applicable material table

◎ Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	◎	◎			○	◎	◎			○

Code key
C6

Cutting parameters
C79-C80

Technical information
C87-C93

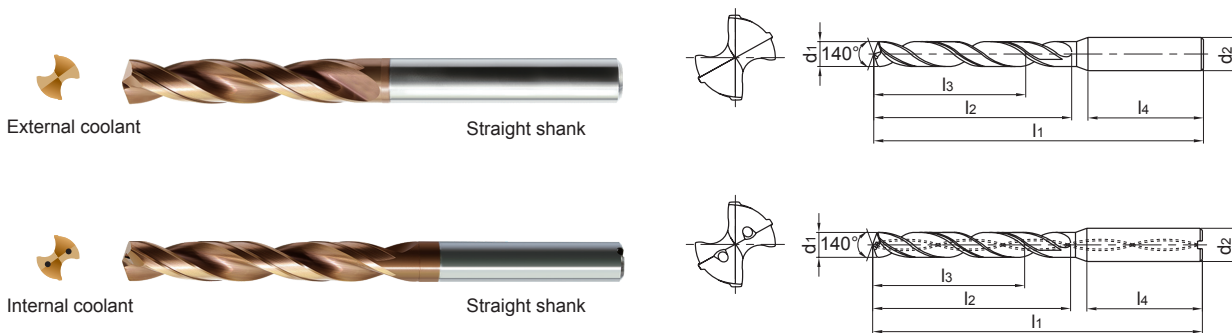
Non-standard customization tools
C94-C98

Drilling tools
GD series



GD series

GD series General machining



● Suitable for high efficiency drilling in a variety of materials e.g steel, stainless steel, cast iron.

Drill diameter d1(m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter	Overall length	Flute length	Recommended drilling depth	Shank length	cutting taps / tread milling cutters	forming taps		
					d2(h6)	l1	l2	l3	l4				
23.25	3	External coolant	Straight shank	GD03-2325	25	153	95	65	56	1-12UNF		○	
	5			GD05-2325	25	184	126	98	56			○	
	3	Internal coolant		GD03C-2325	25	153	95	65	56			○	
	5			GD05C-2325	25	184	126	98	56			○	
23.5	3	External coolant		GD03-2350	25	153	95	65	56			○	
	5			GD05-2350	25	184	126	98	56		○		
	3	Internal coolant		GD03C-2350	25	153	95	65	56			○	
	5			GD05C-2350	25	184	126	98	56		○		
24.0	3	External coolant	GD03-2400	25	153	95	65	56	M27×3	1-8UNC		○	
	5		GD05-2400	25	184	126	98	56				○	
	3	Internal coolant	GD03C-2400	25	153	95	65	56					○
	5		GD05C-2400	25	184	126	98	56				○	
24.5	3	External coolant	GD03-2450	25	153	95	65	56	1-12UNF		○		
	5		GD05-2450	25	184	126	98	56			○		
	3	Internal coolant	GD03C-2450	25	153	95	65	56				○	
	5		GD05C-2450	25	184	126	98	56			○		
25.0	3	External coolant	GD03-2500	25	153	95	65	56	M27×2 11/8-7UNC		○		
	5		GD05-2500	25	184	126	98	56			○		
	3	Internal coolant	GD03C-2500	25	153	95	65	56				○	
	5		GD05C-2500	25	184	126	98	56			○		

Note: For drilling depth (l/d) of 8 ,namely GD08C series, tolerance of shank diameter is h8.

● Stock available ○ Make-to-order

Drilling tools

GD series

Applicable material table

● Very suitable ○ Suitable

Grade	Workpiece material										
	Mild steel HB ≤ 180	Carbon steel, Alloy steel	Pre-hardened steel, Hardened steel			Stainless steel	Cast iron	Nodular cast iron	Aluminum alloy	Copper alloy	Heat resistant alloy
			~40HRC	~50HRC	~60HRC						
KDG3013	○	●	●			○	●	●			○

Code key

C6

Cutting parameters

C79-C80

Technical information

C87-C93

Non-standard customization tools

C94-C98