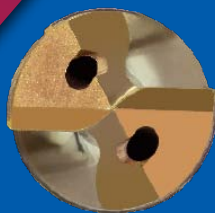


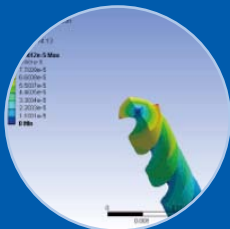
G D series General-purpose twist drill

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.



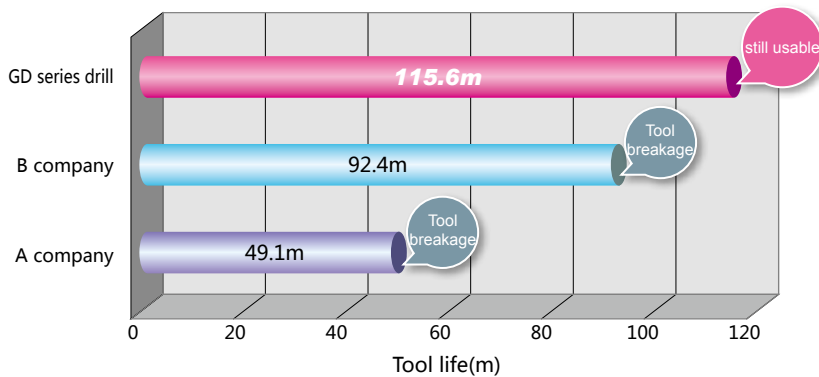
- Double edge-line design for improved machining stability.



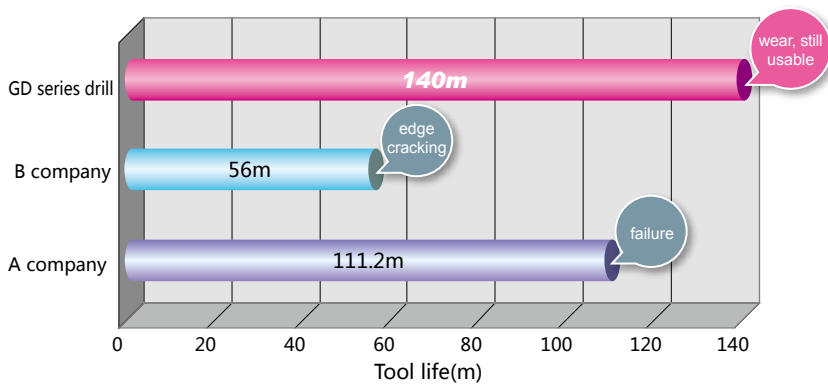
- Professional after treatment for coating ensures low-resistance high-efficiency machining.



Long and stable tool life



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



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

outstanding machining precision

quality of hole wall:

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



GD series drill



A company

excellent chip breaking performance

chip breaking performance:

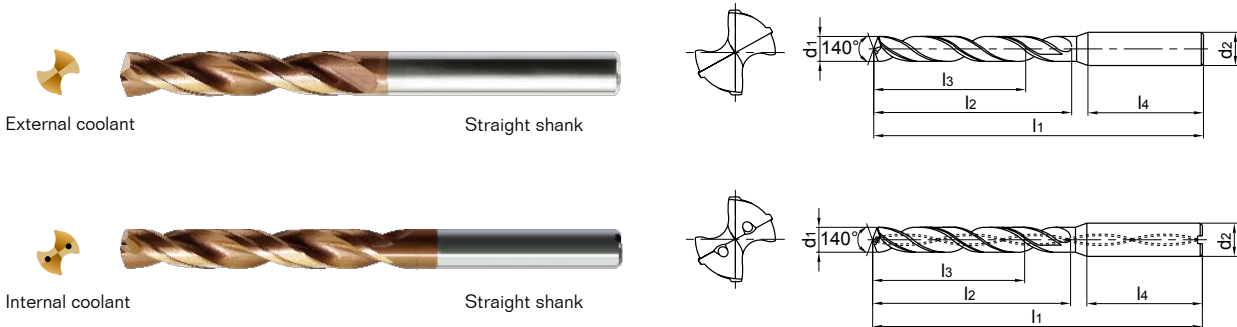
tool: GD05C-0600
 workpiece material: 1Cr18Ni9Ti(HB180)
 $V=75\text{m/min}$; $f=0.2\text{mm/r}$; $H=30\text{mm}$;
 cooling system: water soluble cooling



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	KDG3013
					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			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			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			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			GD03-0230S	3	58	13	9	28		M2.5×0.45	○
	5			GD05-0230S	3	58	18	14	28			○
	3			GD03-0230	4	58	13	9	28		NO.3-56UNF	●
	5			GD05-0230	4	58	18	14	28			●

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

C74-C76

Technical information

C80-C86



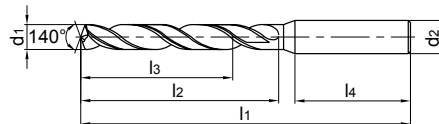
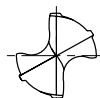
GD series General machining



External coolant



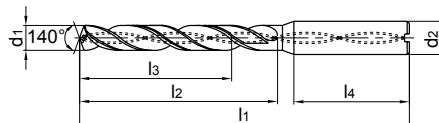
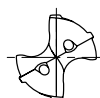
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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 d ₁ (m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade	
					Shank diameter d ₂ (h6)	Overall length l ₁	Flute length l ₂	Recommended drilling depth l ₃	Shank length l ₄	cutting taps / tread milling cutters	forming taps	KDG3013	
2.8	3	External coolant	Straight shank	GD03-0280S	3	58	17	12	28	NO.6-32UNC	M3×0.5	○	
	GD05-0280S			3	58	22	17	28	○				
	GD03-0280			4	58	17	12	28	●				
	GD05-0280			4	58	22	17	28	●				
2.85	3			GD03-0285S	3	58	17	12	28			○	
	GD05-0285S			3	58	22	17	28	○				
	GD03-0285			4	58	17	12	28	●				
	GD05-0285			4	58	22	17	28	●				
2.9	3			GD03-0290S	3	58	17	12	28		NO.5-40UNC	○	
	GD05-0290S			3	58	22	17	28	○				
	GD03-0290			4	58	17	12	28	●				
	GD05-0290			4	58	22	17	28	●				
2.95	3			GD03-0295S	3	58	17	12	28	NO.6-40UNF		○	
	GD05-0295S			3	58	22	17	28	○				
	GD03-0295			4	58	17	12	28	●				
	GD05-0295			4	58	22	17	28	●				
3.0	3			Internal coolant	GD03-0300S	3	62	20	14	36			○
	GD05-0300S				3	66	28	23	36	○			
	GD03C-0300S				3	62	20	14	36	○			
	GD05C-0300S				3	66	28	23	36	○			
	3			External coolant	GD03-0300	6	62	20	14	36			●
	GD05-0300				6	66	28	23	36	●			
	GD03C-0300				6	62	20	14	36	●			
	GD05C-0300				6	66	28	23	36	●			
3.1	3			External coolant	GD03-0310S	4	62	20	14	36			●
	GD05-0310S				4	66	28	23	36	●			
	GD03C-0310S				4	62	20	14	36	●			
	GD05C-0310S				4	66	28	23	36	●			
	3	External coolant	GD03-0310	6	62	20	14	36		○			
	GD05-0310		6	66	28	23	36	○					
	GD03C-0310		6	62	20	14	36	○					
	GD05C-0310		6	66	28	23	36	○					
	3	Internal coolant	GD03-0310	6	62	20	14	36		○			
	GD05C-0310		6	66	28	23	36	○					
	GD08C-0310		6	72	34	29	36						
	GD08C-0310		6	72	34	29	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

C74-C76

Technical information

C80-C86

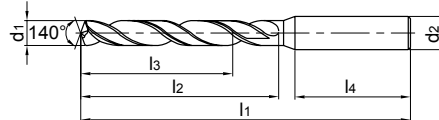
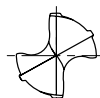


GD series General machining



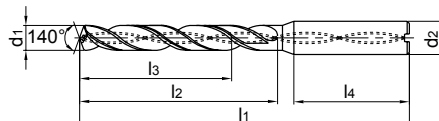
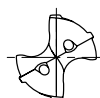
External coolant

Straight shank



Internal coolant

Straight shank



- 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	KDG3013	
					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		○		
	8			GD08C-0320	6	72	34	29	36		○		
	8												
	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 d ₁ (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	KDG3013
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	M4×0.5		●
	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 NO.8-32UNC NO.8-36UNF		●
	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			○
	5			GD05-0350	6	66	28	23	36			○
	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 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

C74-C76

Technical information

C80-C86

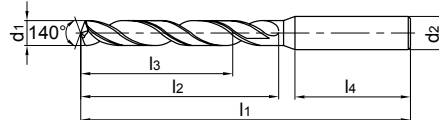
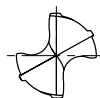


GD series General machining



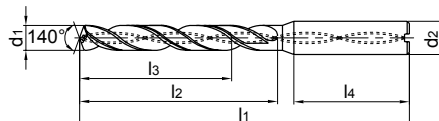
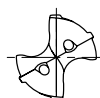
External coolant

Straight shank



Internal coolant

Straight shank



- 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	KDG3013
					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	NO.8-32UNC	M4×0.5	●
	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	NO.8-36UNF		●	
	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 d ₁ (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	KDG3013
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	NO.10-32UNF		●
	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 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

C74-C76

Technical information

C80-C86

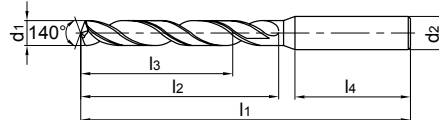
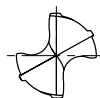


GD series General machining



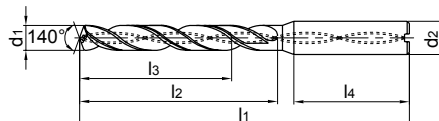
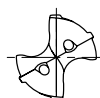
External coolant

Straight shank



Internal coolant

Straight shank



- 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	KDG3013
					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		NO.10-24UNC	○
	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			●
	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	KDG3013		
					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			GD03-0460S	5	66	24	17	36	○				
	5	External coolant		GD05-0460S	5	74	36	29	36	○				
	3			GD03C-0460S	5	66	24	17	36	○				
	5	Internal coolant		GD05C-0460S	5	74	36	29	36	○				
	3			GD03-0460	6	66	24	17	36	●				
	5	External coolant		GD05-0460	6	74	36	29	36	●				
	3			GD03C-0460	6	66	24	17	36	●				
4.65	5	Internal coolant		GD05C-0460	6	74	36	29	36					●
	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 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

C74-C76

Technical information

C80-C86



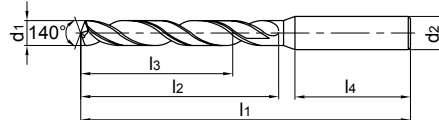
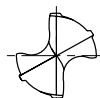
GD series General machining



External coolant



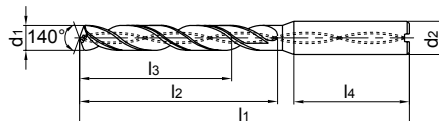
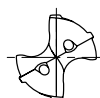
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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	KDG3013
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			●
	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	M6×0.75		●
	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 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

C74-C76

Technical information

C80-C86



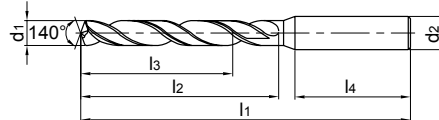
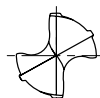
GD series General machining



External coolant



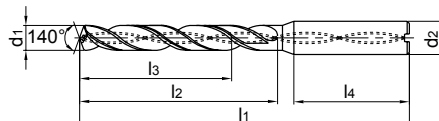
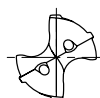
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					d2(h6)	l1	l2	l3	l4			
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	Internal coolant		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		●	
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-0560	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-0570	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		●	
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	KDG3013
					d2(h6)	l1	l2	l3	l4			
5.9	3	External coolant	Straight shank	GD03-0590	6	66	28	20	36			●
	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			●
6.0	3	External coolant		GD03-0600	6	66	28	20	36	M7×1		●
	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			○
	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			○
	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			○
	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			○
	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			○
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

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

C74-C76

Technical information

C80-C86

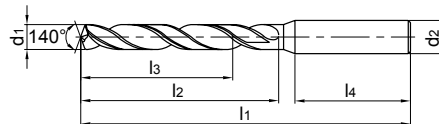
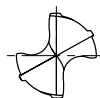


GD series General machining



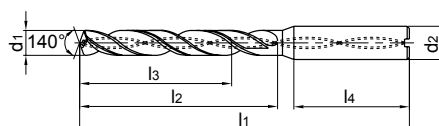
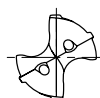
External coolant

Straight shank



Internal coolant

Straight shank



- 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	KDG3013
					d2(h6)	l1	l2	l3	l4			
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 d ₁ (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	KDG3013
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			○
	8			GD08C-0660	8	114	76	66	36			○
6.7	3	External coolant		GD03-0670S	7	79	34	24	36			○
	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			○
	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			●
	8			GD08C-0675	8	114	76	66	36			○
	8			GD08C-0675	8	114	76	66	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			○
	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

C74-C76

Technical information

C80-C86



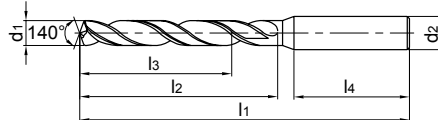
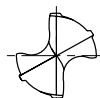
GD series General machining



External coolant



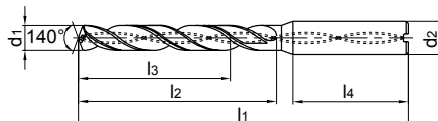
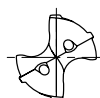
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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		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		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		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	KDG3013
					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	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			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		5/16-24UNF	●
	5			GD05C-0745	8	91	53	43	36			●
7.5	3	External coolant		GD03-0750	8	79	41	29	36			●
	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			●
	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			●
	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 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

C74-C76

Technical information

C80-C86



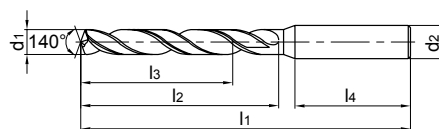
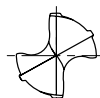
GD series General machining



External coolant



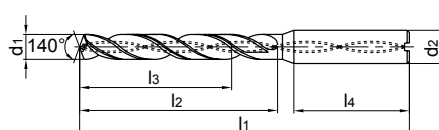
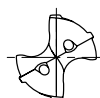
Straight shank



Internal coolant



Straight shank



● 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	KDG3013	
					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			○	
	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			○	
	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	KDG3013						
					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			M10×1.5 3/8-24UNF		○				
	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					M10×1.5 3/8-24UNF		○		
	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							M10×1.5 3/8-24UNF		○
	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 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

C74-C76

Technical information

C80-C86



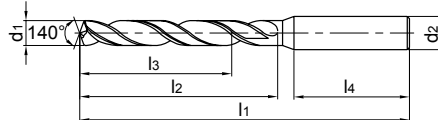
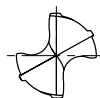
GD series General machining



External coolant



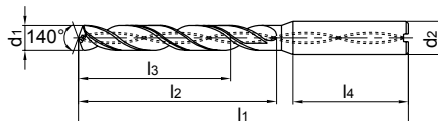
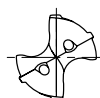
Straight shank



Internal coolant



Straight shank



- 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	KDG3013		
					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 d2(h6)	Overall length l1	Flute length l2	Recommended drilling depth l3	Shank length l4	cutting taps / tread milling cutters	forming taps	KDG3013			
8.9	3	External coolant	Straight shank	GD03-0890S	9	89	47	35	40			○			
	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	Straight shank	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	Straight shank		GD03-0910	10	89	47	35	40				
	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	○					
9.2	3	External coolant	Straight shank		GD03-0920	10	89	47	35	40			●		
	5				GD05-0920	10	103	61	49	40			●		
	3	Internal coolant			GD03C-0920	10	89	47	35	40			●		
	5				GD05C-0920	10	103	61	49	40			●		
	8				GD08C-0920	10	142	95	83	40			○		
9.3	3	External coolant		Straight shank	GD03-0930	10	89	47	35	40					●
	5				GD05-0930	10	103	61	49	40					●
	3	Internal coolant			GD03C-0930	10	89	47	35	40					●
	5				GD05C-0930	10	103	61	49	40					●
	8				GD08C-0930	10	142	95	83	40					○

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

C74-C76

Technical information

C80-C86



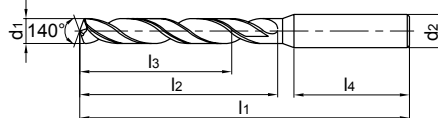
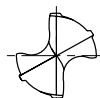
GD series General machining



External coolant



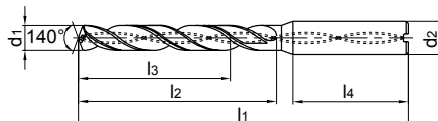
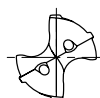
Straight shank



Internal coolant



Straight shank



- 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	KDG3013	
					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		7/16-14UNC		●
	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	7/16-14UNC	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		7/16-14UNC		●
	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	7/16-14UNC	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		7/16-14UNC		●
	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 d2(h6)	Overall length l1	Flute length l2	Recommended drilling depth l3	Shank length l4	cutting taps / tread milling cutters	forming taps	KDG3013	
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 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

C74-C76

Technical information

C80-C86



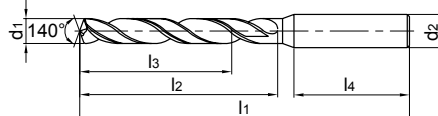
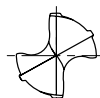
GD series General machining



External coolant



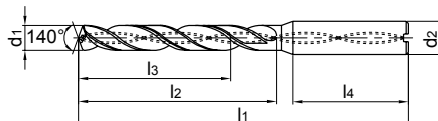
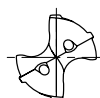
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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			●
	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	7/16-14UNC		○
	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			●
	8		GD08C-1030	12	162	114	99	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 d ₁ (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	KDG3013
					d ₂ (h6)	l ₁	l ₂	l ₃	l ₄			
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	M12×1.25		○	
	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

C74-C76

Technical information

C80-C86

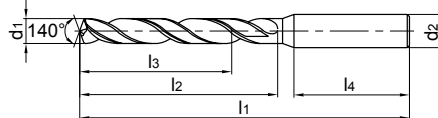
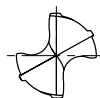


GD series General machining



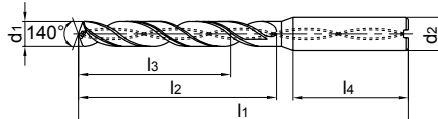
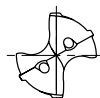
External coolant

Straight shank



Internal coolant

Straight shank



- 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	KDG3013
					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		○		

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	KDG3013
					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			●
11.3	3	External coolant		GD03-1130	12	102	55	40	45		M12×1.5	●
	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			●
11.4	3	External coolant		GD03-1140	12	102	55	40	45		M12×1.25	●
	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		●		

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

C74-C76

Technical information

C80-C86



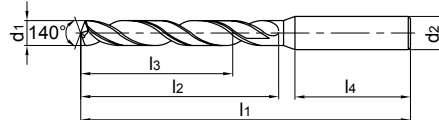
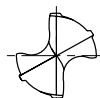
GD series General machining



External coolant



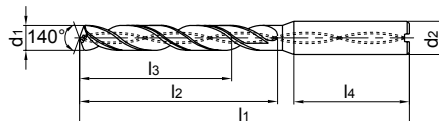
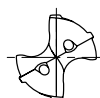
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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	Internal coolant		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		●	
	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		●	
	8			GD08C-1190	12	162	114	99	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 d2(h6)	Overall length l1	Flute length l2	Recommended drilling depth l3	Shank length l4	cutting taps / tread milling cutters	forming taps	KDG3013	
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			○	
	12.7	3		External coolant	GD03-1270	14	107	60	43	45			●
		5			GD05-1270	14	124	77	60	45			●
		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	●			
	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

C74-C76

Technical information

C80-C86



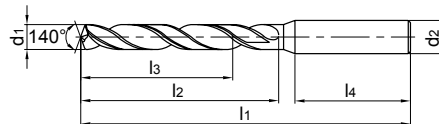
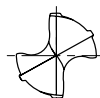
GD series General machining



External coolant



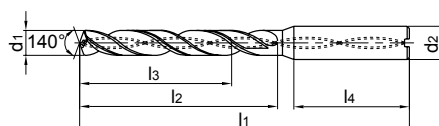
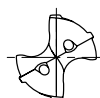
Straight shank



Internal coolant



Straight shank



● 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	External coolant		GD05-1290	14	124	77	60	45			●
	3	Internal coolant		GD03C-1290	14	107	60	43	45			●
	5	Internal coolant		GD05C-1290	14	124	77	60	45			●
13.0	3	External coolant		GD03-1300	14	107	60	43	45			●
	5	External coolant		GD05-1300	14	124	77	60	45			●
	3	Internal coolant		GD03C-1300	14	107	60	43	45			●
	5	Internal coolant		GD05C-1300	14	124	77	60	45			●
	8			GD08C-1300	14	178	133	116	45			○
13.1	3	External coolant		GD03-1310	14	107	60	43	45		M14×2	●
	5	External coolant		GD05-1310	14	124	77	60	45			●
	3	Internal coolant		GD03C-1310	14	107	60	43	45			●
	5	Internal coolant		GD05C-1310	14	124	77	60	45			●
13.35	3	External coolant		GD03-1335	14	107	60	43	45		M14×1.5 9/16-12UNC	●
	5	External coolant		GD05-1335	14	124	77	60	45			●
	3	Internal coolant		GD03C-1335	14	107	60	43	45			●
	5	Internal coolant		GD05C-1335	14	124	77	60	45			●
												○
13.5	3	External coolant		GD03-1350	14	107	60	43	45	5/8-11UNC		●
	5	External coolant		GD05-1350	14	124	77	60	45			●
	3	Internal coolant		GD03C-1350	14	107	60	43	45			●
	5	Internal coolant		GD05C-1350	14	124	77	60	45			●
	8			GD08C-1350	14	178	133	116	45			○
13.65	3	External coolant		GD03-1365	14	107	60	43	45		9/16-18UNF	●
	5	External coolant		GD05-1365	14	124	77	60	45			●
	3	Internal coolant		GD03C-1365	14	107	60	43	45			●
	5	Internal coolant		GD05C-1365	14	124	77	60	45			●

● Stock available ○ Make-to-order

Drill diameter d ₁ (mm)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade						
					Shank diameter d ₂ (h ₆)	Overall length l ₁	Flute length l ₂	Recommended drilling depth l ₃	Shank length l ₄	cutting taps / tread milling cutters	forming taps	KDG3013						
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					●				
	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							●		
	8			GD08C-1400	14	178	133	116	45							○		
14.25	3	External coolant		GD03-1425	16	115	65	45	48			M16×1.5 5/8-18UNF		●				
	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					●				
	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							●		
	8			GD08C-1450	16	204	152	132	48							○		
14.75	3	External coolant		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					●				
	8			GD08C-1480	16	204	152	132	48					○				
15.0	3	External coolant		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					●				
	8			GD08C-1500	16	204	152	132	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

C74-C76

Technical information

C80-C86



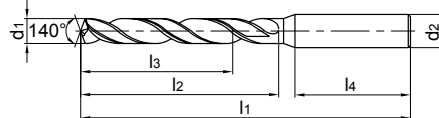
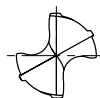
GD series General machining



External coolant



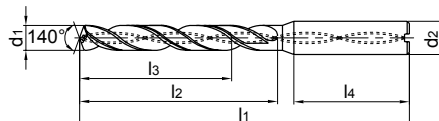
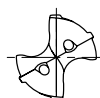
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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			●
	8			GD08C-1550	16	204	152	132	48			○
15.8	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	KDG3013
					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			●
	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			●
	5			GD05C-1675	18	143	93	71	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	●		
5				GD05C-1680	18	143	93	71	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		●	
	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	M20×2.5 3/4-16UNF		●
	5			GD05-1750	18	143	93	71	48			●
	3	Internal coolant		GD03C-1750	18	123	73	51	48			●
	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			●
	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	●		
5				GD05C-1790	18	143	93	71	48	●		
18.0				3	External coolant	GD03-1800	18	123	73	51	48	M20×2
	5	GD05-1800		18		143	93	71	48		●	
	3	Internal coolant		GD03C-1800	18	123	73	51	48		●	
	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

C74-C76

Technical information

C80-C86



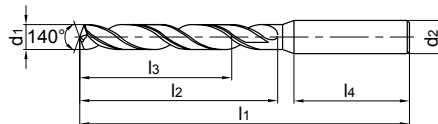
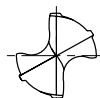
GD series General machining



External coolant



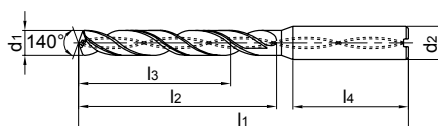
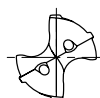
Straight shank



Internal coolant



Straight shank



- 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	KDG3013
					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 d ₁ (m7)	Drilling depth (l/d)	Cooling mode	Shank type	Type	Basic dimension(mm)					Suitable for thread		Grade
					Shank diameter d ₂ (h ₆)	Overall length l ₁	Flute length l ₂	Recommended drilling depth l ₃	Shank length l ₄	cutting taps / tread milling cutters	forming taps	KDG3013
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

C74-C76

Technical information

C80-C86



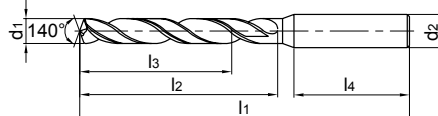
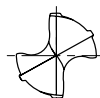
GD series General machining



External coolant



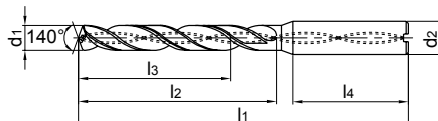
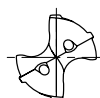
Straight shank



Internal coolant



Straight shank



- 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	KDG3013	
					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 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

C74-C76

Technical information

C80-C86