



CATALOG

GTS-Precision Tools
PCD Tool Product Manual



Z Table 0 | C Table 1 | C Table 2 | G Table 3 | W Table 4 | 12 Table 5 | 02 Table 6

04 Table 7 | L Table 8 | F Table 9 | 00 Table 10 | R Table 11 | 1 Table 12

PCD Insert Model

1-Insert Shape

Mark	Blade Shape	
C	Lozenge	
D		
V		
S	Square	
T	Positive triangle	
R	Rotundity	
W	Iso-angle hexagon	

2-Back Corner

Mark	The Back Corner
B	
C	
P	
0	Other

The band indicates that there are also cases where 10 degrees are used

0-Blade Structure

Mark	Blade Structure
Z	Composite
	Welded

4-Hole Type

Mark	Hole Type	
N	No holes	
A	Cylinder holes	
B	One-sided Inclination cylinder hole	
W		
T		
C	Double-sided Inclination cylinder hole	
Q		
X		special

3-Tip Height Allows Tolerances

Mark	High Tip Allows Tolerances	The Inner Cut Circle Allows Tolerances	The Thickness Allows Tolerances
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
M	±0.08~±0.2	±0.05~±0.15	±0.13

6-Thickness

Mark	Thickness
01	1.59
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

5-Cut Round

Shape	Mark	Long Cutting Edge	Inscribed Circle	Shape	Mark	Long Cutting Edge	Inscribed Circle	Shape	Mark	Long Cutting Edge	Inscribed Circle
	C	05	5.64		S	05	5.56		R	08	8
		06	6.4			06	6.35			10	10
		08	8			08	7.94			12	12
		09	9.7			09	9.525			12	12.7
		12	12.9			12	12.7			15	15.875
		16	16.1			15	15.875			16	16
	D	07	7.7		T	06	6.9		W	04	4.3
		09	9.7			08	8.2			05	5.4
		11	11.6			09	9.6			06	6.5
		15	15.5			11	11			08	8.7
	V	08	8.3							10	10.9
		09	9.7								
		11	11.1								
		16	16.6								

7-Tip Arc

Mark	Knife Tip Arc
00	0
01	0.1
02	0.2
04	0.4
08	0.8
10	1
12	1.2
16	1.6
24	2.4
M O	Round (metric)

8-Edge

Mark	Edge
L	Long cut edges
S	Cut the edges left and right

12-Number of Heads

Mark	Number of Heads
1	1
2	2
3	3
4	4

10-Front Corner

Mark	Front Corner
03	3
04	4
05	5
07	7
10	10
15	15

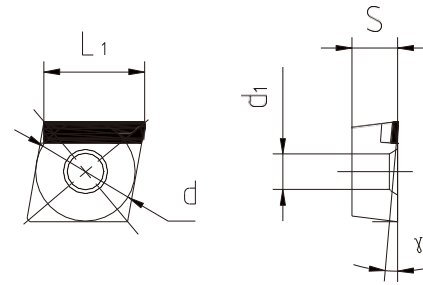
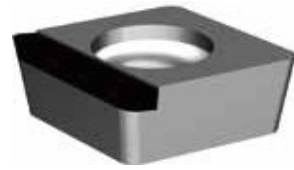
9-Edge Form

Mark	Edge Form
R	Passivation
T	Inverted
S	Inverted & Passivated
F	Sharp Edge

11- Direction of Use

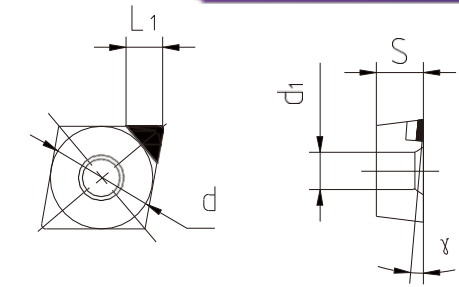
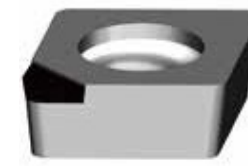
Mark	Direction of Use
R	Right Hand
L	Left Hand
X	Not

PCD Tip Front Corner



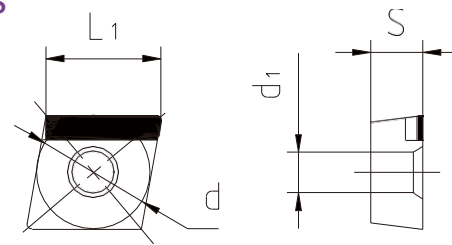
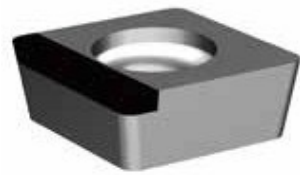
Model	Size				Material		
	d	S	d _i	L ₁	GT25	GT10	GT302
CCGW060204LF03-R1	6.35	2.38	2.8	6	●	●	●
CCGW060204LF05-R1					●	●	●
CCGW060204LF07-R1					●	●	●
CCGW060208LF03-R1	6.35	2.38	2.8	5.6	●	●	●
CCGW060208LF05-R1					●	●	●
CCGW060208LF07-R1					●	●	●
CCGW09T304LF03-R1	9.525	3.97	4.4	9.2	●	●	●
CCGW09T304LF05-R1					●	●	●
CCGW09T304LF07-R1					●	●	●
CCGW09T308LF03-R1	9.525	3.97	4.4	8.8	●	●	●
CCGW09T308LF05-R1					●	●	●
CCGW09T308LF07-R1					●	●	●
CCGW120404LF03-R1	12.7	4.76	5.5	12.5	●	●	●
CCGW120404LF05-R1					●	●	●
CCGW120404LF07-R1					●	●	●
CCGW120408LF03-R1	12.7	4.76	5.5	12	●	●	●
CCGW120408LF05-R1					●	●	●
CCGW120408LF07-R1					●	●	●
CCGW060204LF03-L1	6.35	2.38	2.8	6	●	●	●
CCGW060204LF05-L1					●	●	●
CCGW060204LF07-L1					●	●	●
CCGW060208LF03-L1	6.35	2.38	2.8	5.6	●	●	●
CCGW060208LF05-L1					●	●	●
CCGW060208LF07-L1					●	●	●
CCGW09T304LF03-L1	9.525	3.97	4.4	9.2	●	●	●
CCGW09T304LF05-L1					●	●	●
CCGW09T304LF07-L1					●	●	●
CCGW09T308LF03-L1	9.525	3.97	4.4	8.8	●	●	●
CCGW09T308LF05-L1					●	●	●
CCGW09T308LF07-L1					●	●	●
CCGW120404LF03-L1	12.7	4.76	5.5	12.5	●	●	●
CCGW120404LF05-L1					●	●	●
CCGW120404LF07-L1					●	●	●
CCGW120408LF03-L1	12.7	4.76	5.5	12	●	●	●
CCGW120408LF05-L1					●	●	●
CCGW120408LF07-L1					●	●	●

PCD Tip Front Corner



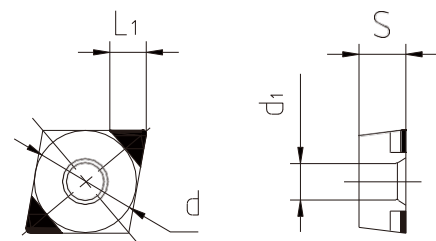
Model	Size				Material		
	d	S	d _i	L ₁	GT25	GT10	GT302
CCGW060204SF03-X1	6.35	2.38	2.8	3.1	●	●	●
CCGW060204SF04-X1					●	●	●
CCGW060204SF05-X1					●	●	●
CCGW060204SF07-X1					●	●	●
CCGW060204SF10-X1					●	●	●
CCGW060204SF15-X1					●	●	●
CCGW060208SF03-X1	6.35	2.38	2.8	3	●	●	●
CCGW060208SF04-X1					●	●	●
CCGW060208SF05-X1					●	●	●
CCGW060208SF07-X1					●	●	●
CCGW060208SF10-X1					●	●	●
CCGW060208SF15-X1					●	●	●
CCGW09T304SF03-X1	9.525	3.97	4.4	3.5	●	●	●
CCGW09T304SF04-X1					●	●	●
CCGW09T304SF05-X1					●	●	●
CCGW09T304SF07-X1					●	●	●
CCGW09T304SF10-X1					●	●	●
CCGW09T304SF15-X1					●	●	●
CCGW09T308SF03-X1	9.525	3.97	4.4	3.4	●	●	●
CCGW09T308SF04-X1					●	●	●
CCGW09T308SF05-X1					●	●	●
CCGW09T308SF07-X1					●	●	●
CCGW09T308SF10-X1					●	●	●
CCGW09T308SF15-X1					●	●	●
CCGW120404SF03-X1	12.7	4.76	5.5	4.7	●	●	●
CCGW120404SF04-X1					●	●	●
CCGW120404SF05-X1					●	●	●
CCGW120404SF07-X1					●	●	●
CCGW120404SF10-X1					●	●	●
CCGW120404SF15-X1					●	●	●
CCGW120408SF03-X1	12.7	4.76	5.5	4.6	●	●	●
CCGW120408SF04-X1					●	●	●
CCGW120408SF05-X1					●	●	●
CCGW120408SF07-X1					●	●	●
CCGW120408SF10-X1					●	●	●
CCGW120408SF15-X1					●	●	●

PCD Tip with a Front Angle of 0 Degrees



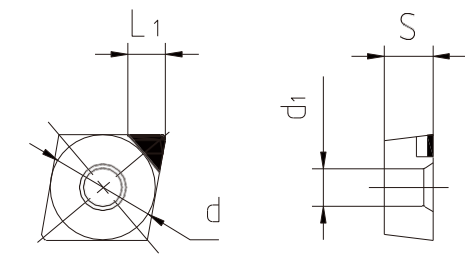
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
CCGW060204LF00-R1	6.35	2.38	2.8	6	●	●	●
CCGW060208LF00-R1	6.35	2.38	2.8	5.6	●	●	●
CCGW09T304LF00-R1	9.525	3.97	4.4	9.2	●	●	●
CCGW09T308LF00-R1	9.525	3.97	4.4	8.8	●	●	●
CCGW120404LF00-R1	12.7	4.76	5.5	12.5	●	●	●
CCGW120408LF00-R1	12.7	4.76	5.5	12	●	●	●
CCGW060204LF00-L1	6.35	2.38	2.8	6	●	●	●
CCGW060208LF00-L1	6.35	2.38	2.8	5.6	●	●	●
CCGW09T304LF00-L1	9.525	3.97	4.4	9.2	●	●	●
CCGW09T308LF00-L1	9.525	3.97	4.4	8.8	●	●	●
CCGW120404LF00-L1	12.7	4.76	5.5	12.5	●	●	●
CCGW120408LF00-L1	12.7	4.76	5.5	12	●	●	●

PCD Tip Front Corner



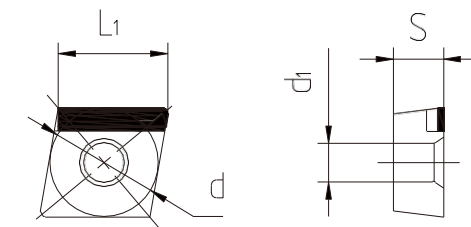
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
CCGW060204SF00-X1	6.35	2.38	2.8	3.1	●	●	●
CCGW060208SF00-X1	6.35	2.38	2.8	3	●	●	●
CCGW09T304SF00-X1	9.525	3.97	4.4	3.5	●	●	●
CCGW09T308SF00-X1	9.525	3.97	4.4	3.4	●	●	●
CCGW120404SF00-X1	12.7	4.76	5.5	4.7	●	●	●
CCGW120408SF00-X1	12.7	4.76	5.5	4.6	●	●	●

PCD Tip Chip-Breaking Grooves



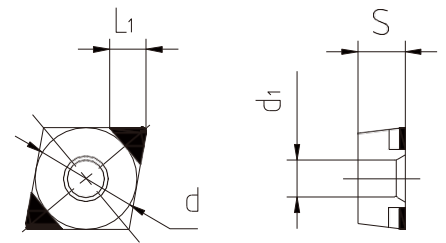
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
CCGT060202SF00-X1	6.35	2.38	2.8	3.4	●	●	●
CCGT060204SF00-X1	6.35	2.38	2.8	3.2	●	●	●
CCGT09T304SF00-X1	9.525	3.97	4.4	4.3	●	●	●
CCGT09T308SF00-X1	9.525	3.97	4.4	4.1	●	●	●

PCD Tip 0° Front Corner



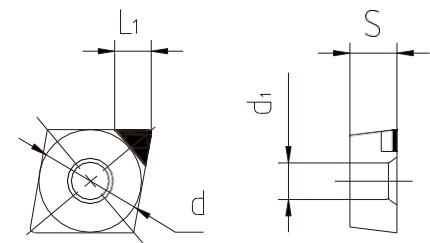
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
CPGW060204LF00-R1	6.35	2.38	2.8	6.2	●	●	●
CPGW060208LF00-R1	6.35	2.38	2.8	6.1	●	●	●
CPGW09T304LF00-R1	9.525	3.97	4.4	9.4	●	●	●
CPGW09T308LF00-R1	9.525	3.97	4.4	9.3	●	●	●
CPGW060204LF00-L1	6.35	2.38	2.8	6.2	●	●	●
CPGW060208LF00-L1	6.35	2.38	2.8	6.1	●	●	●
CPGW09T304LF00-L1	9.525	3.97	4.4	9.4	●	●	●
CPGW09T308LF00-L1	9.525	3.97	4.4	9.3	●	●	●

PCD Tip with a Front Angle of 0 Degrees



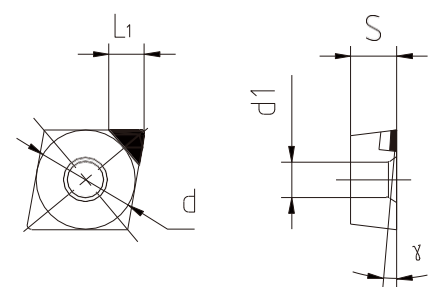
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
CPGW060204SF00-X2	6.35	2.38	2.8	3.1	●	●	●
CPGW060208SF00-X2	6.35	2.38	2.8	3	●	●	●
CPGW09T304SF00-X2	9.525	3.97	4.4	3.5	●	●	●
CPGW09T308SF00-X2	9.525	3.97	4.4	3.4	●	●	●

PCD Tip Chip-Breaking Grooves



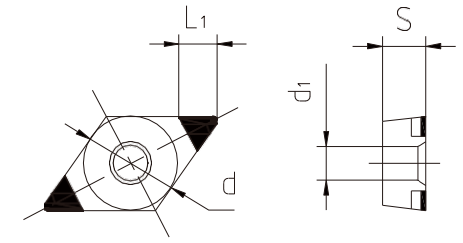
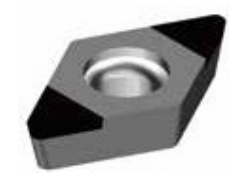
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
CPGT060204SF00-X1	6.35	2.38	2.8	3.1	●	●	●
CPGT060208SF00-X1	6.35	2.38	2.8	3	●	●	●
CPGT09T304SF00-X1	9.525	3.97	4.4	3.5	●	●	●
CPGT09T308SF00-X1	9.525	3.97	4.4	3.4	●	●	●

PCD Tip Front Corner



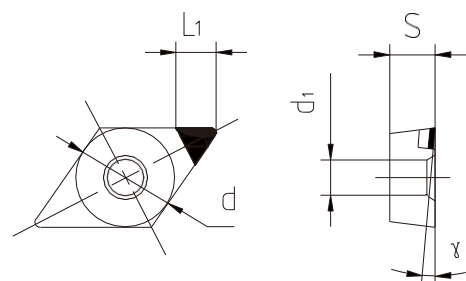
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
CPGW060204SF03-X1	6.35	2.38	2.8	3.1	●	●	●
CPGW060204SF05-X1					●	●	●
CPGW060208SF03-X1	6.35	2.38	2.8	3	●	●	●
CPGW060208SF05-X1					●	●	●
CPGW09T304SF03-X1	9.525	3.97	4.4	3.5	●	●	●
CPGW09T304SF05-X1					●	●	●
CPGW09T308SF03-X1	9.525	3.97	4.4	3.4	●	●	●
CPGW09T308SF05-X1					●	●	●

PCD Tip with a Front Angle of 0 Degrees



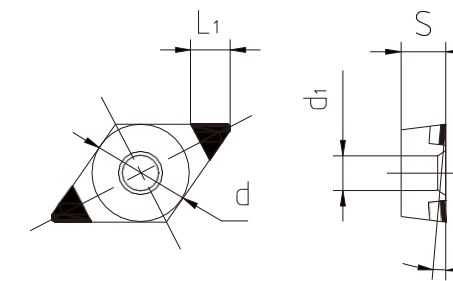
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DCGW070202SF00-X2	6.35	2.38	2.8	3.7	●	●	●
DCGW070204SF00-X2	6.35	2.38	2.8	3.4	●	●	●
DCGW070208SF00-X2	6.35	2.38	2.8	3	●	●	●
DCGW11T304SF00-X2	9.525	3.97	4.4	3.9	●	●	●
DCGW11T308SF00-X2	9.525	3.97	4.4	3.5	●	●	●

PCD Tip Front Corner



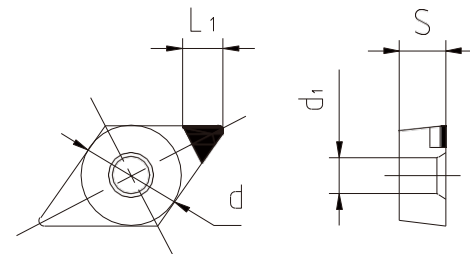
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DCGW 070202 SF03-X1	6.35	2.38	2.8	3.7	●	●	●
DCGW 070202 SF04-X1					●	●	●
DCGW 070202 SF05-X1					●	●	●
DCGW 070202 SF07-X1					●	●	●
DCGW 070202 SF10-X1					●	●	●
DCGW 070204 SF03-X1	6.35	2.38	2.8	3.4	●	●	●
DCGW 070204 SF04-X1					●	●	●
DCGW 070204 SF05-X1					●	●	●
DCGW 070204 SF07-X1					●	●	●
DCGW070204SF10-X1					●	●	●
DCGW070208SF03-X1	6.35	2.38	2.8	3	●	●	●
DCGW070208SF04-X1					●	●	●
DCGW 070208 SF05-X1					●	●	●
DCGW070208SF07-X1					●	●	●
DCGW070208SF10-X1					●	●	●
DCGW11T304SF03-X1	9.525	3.97	4.4	3.9	●	●	●
DCGW11T304SF04-X1					●	●	●
DCGW 11T304 SF05-X1					●	●	●
DCGW11T304SF07-X1					●	●	●
DCGW11T304SF10-X1					●	●	●
DCGW11T308SF03-X1	9.525	3.97	4.4	3.5	●	●	●
DCGW11T308SF04-X1					●	●	●
DCGW 11T308 SF05-X1					●	●	●
DCGW 11T308 SF07-X1					●	●	●
DCGW11T308SF10-X1					●	●	●

PCD Tip Front Corner



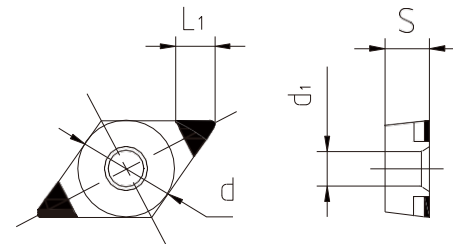
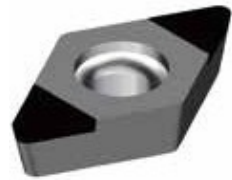
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DCGW070202SF03-X2	6.35	2.38	2.8	3.7	●	●	●
DCGW070202SF04-X2					●	●	●
DCGW070202SF05-X2					●	●	●
DCGW070202SF07-X2					●	●	●
DCGW070202SF10-X2					●	●	●
DCGW070202SF015-X2					●	●	●
DCGW070204SF03-X2	6.35	2.38	2.8	3.4	●	●	●
DCGW070204SF04-X2					●	●	●
DCGW070204SF05-X2					●	●	●
DCGW070204SF07-X2					●	●	●
DCGW070204SF10-X2					●	●	●
DCGW070204SF015-X2					●	●	●
DCGW070208SF03-X2	6.35	2.38	2.8	3	●	●	●
DCGW070208SF04-X2					●	●	●
DCGW070208SF05-X2					●	●	●
DCGW070208SF07-X2					●	●	●
DCGW070208SF10-X2					●	●	●
DCGW070208SF015-X2					●	●	●
DCGW11T304SF03-X2	9.525	3.97	4.4	3.9	●	●	●
DCGW11T304SF04-X2					●	●	●
DCGW11T304SF05-X2					●	●	●
DCGW11T304SF07-X2					●	●	●
DCGW11T304SF10-X2					●	●	●
DCGW11T304SF015-X2					●	●	●
DCGW11T308SF03-X2	9.525	3.97	4.4	3.5	●	●	●
DCGW11T308SF04-X2					●	●	●
DCGW11T308SF05-X2					●	●	●
DCGW11T308SF07-X2					●	●	●
DCGW11T308SF10-X2					●	●	●
DCGW11T308SF015-X2					●	●	●

PCD Tip and Chip-Breaking Grooves



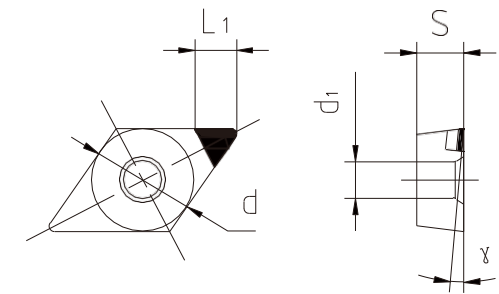
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DCGT070202SF00-X1	6.35	2.38	2.8	3.7	●	●	●
DCGT070204SF00-X1	6.35	2.38	2.8	3.4	●	●	●
DCGT11T302SF00-X1	9.525	3.97	4.4	3.9	●	●	●
DCGT11T304SF00-X1	9.525	3.97	4.4	3.9	●	●	●
DCGT11T308SF00-X1	9.525	3.97	4.4	3.5			

PCD Tip with a Front Angle of 0 Degrees



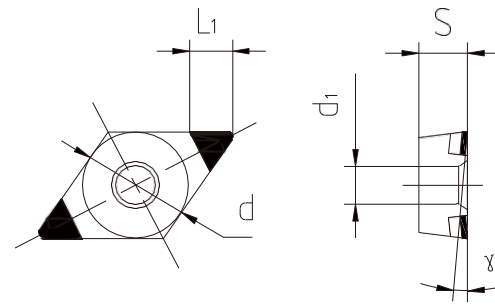
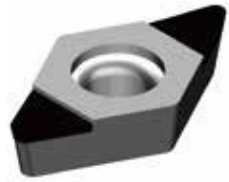
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DPGW070202SF00-X2	6.35	2.38	2.8	3.7	●	●	●
DPGW070204SF00-X2	6.35	2.38	2.8	3.4	●	●	●
DPGW070208SF00-X2	6.35	2.38	2.8	3	●	●	●
DPGW11T304SF00-X2	9.525	3.97	4.4	3.9	●	●	●
DPGW11T308SF00-X2	9.525	3.97	4.4	3.5	●	●	●

PCD Tip Front Corner



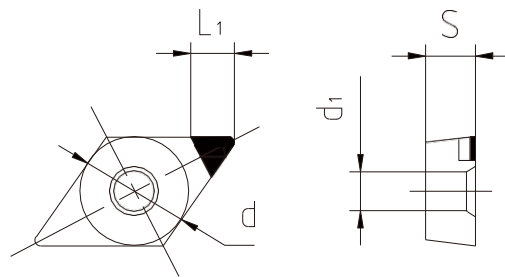
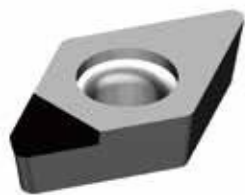
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
DPGW070202SF03-X1	6.35	2.38	2.8	3.7	●	●	●
DPGW070202SF05-X1					●	●	●
DPGW070202SF07-X1					●	●	●
DPGW070202SF10-X1					●	●	●
DPGW070204SF03-X1	6.35	2.38	2.8	3.4	●	●	●
DPGW070204SF05-X1					●	●	●
DPGW070204SF07-X1					●	●	●
DPGW070204SF10-X1					●	●	●
DPGW070208SF03-X1	6.35	2.38	2.8	3	●	●	●
DPGW070208SF05-X1					●	●	●
DPGW070208SF07-X1					●	●	●
DPGW070208SF10-X1					●	●	●
DPGW11T304SF03-X1	9.525	3.97	4.4	3.9	●	●	●
DPGW11T304SF05-X1					●	●	●
DPGW11T304SF07-X1					●	●	●
DPGW11T304SF10-X1					●	●	●
DPGW11T308SF03-X1	9.525	3.97	4.4	3.5	●	●	●
DPGW11T308SF05-X1					●	●	●
DPGW11T308SF07-X1					●	●	●
DPGW11T308SF10-X1							

PCD Tip Front Corner



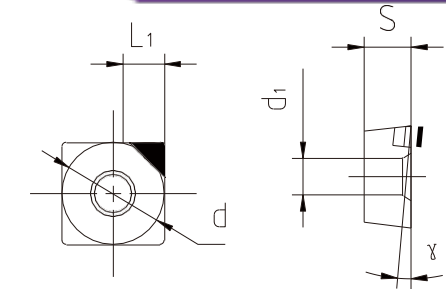
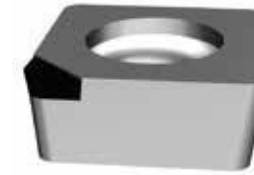
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
DPGW070202SF03-X2	6.35	2.38	2.8	3.7	●	●	●
DPGW070202SF05-X2					●	●	●
DPGW070204SF03-X2	6.35	2.38	2.8	3.7	●	●	●
DPGW070204SF05-X2					●	●	●
DPGW070208SF03-X2	6.35	2.38	2.8	3.4	●	●	●
DPGW070208SF05-X2					●	●	●
DPGW11T304SF03-X2	9.525	3.97	4.4	3.9	●	●	●
DPGW11T304SF05-X2					●	●	●
DPGW11T308SF03-X2	9.525	3.97	4.4	3.5	●	●	●
DPGW11T308SF05-X2					●	●	●

PCD Tip and Chip-Breaking Grooves



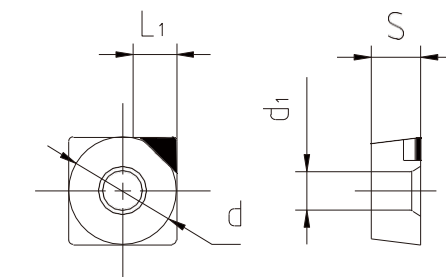
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
DPGT070202SF00-X1	6.35	2.38	2.8	3.7	●	●	●
DPGT070204SF00-X1	6.35	2.38	2.8	3.4	●	●	●
DPGT11T302SF00-X1	9.525	3.97	4.4	3.9	●	●	●
DPGT11T304SF00-X1	9.525	3.97	4.4	3.9	●	●	●
DPGT11T308SF00-X1	9.525	3.97	4.4	3.5	●	●	●

PCD Tip Front Corner



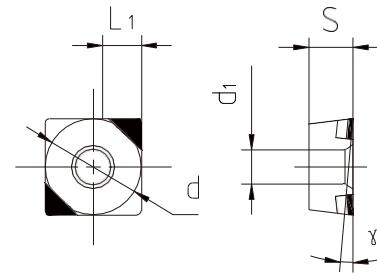
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
SCGW060204SF03-X1	6.35	2.38	2.8	2.8	●	●	●
SCGW060204SF05-X1					●	●	●
SCGW060204SF07-X1					●	●	●
SCGW060208SF03-X1	6.35	2.38	2.8	2.8	●	●	●
SCGW060208SF05-X1					●	●	●
SCGW060208SF07-X1					●	●	●
SCGW09T304SF03-X1	9.525	3.97	2.8	3.1	●	●	●
SCGW09T304SF05-X1					●	●	●
SCGW09T304SF07-X1					●	●	●
SCGW09T308SF03-X1	9.525	3.97	4.4	3.1	●	●	●
SCGW09T308SF05-X1					●	●	●
SCGW09T308SF07-X1					●	●	●
SCGW120404SF03-X1	12.7	4.76	5.5	4.5	●	●	●
SCGW120404SF05-X1					●	●	●
SCGW120404SF07-X1					●	●	●
SCGW120408SF03-X1	12.7	4.76	5.5	4.5	●	●	●
SCGW120408SF05-X1					●	●	●
SCGW120408SF07-X1					●	●	●

PCD Tip with a Front Angle of 0 Degrees



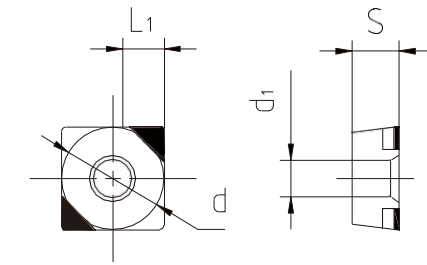
Model	Size				Material		
	d	S	d _i	L _i	GT25	GT10	GT302
SCGW060204SF00-X1	6.35	2.38	2.8	2.8	●	●	●
SCGW060208SF00-X1	6.35	2.38	2.8	2.8	●	●	●
SCGW09T304SF00-X1	9.525	3.97	2.8	3.1	●	●	●
SCGW09T308SF00-X1	9.525	3.97	4.4	3.1	●	●	●
SCGW120404SF00-X1	12.7	4.76	5.5	4.5	●	●	●
SCGW120408SF00-X1	12.7	4.76	5.5	4.5	●	●	●

PCD Tip Front Corner



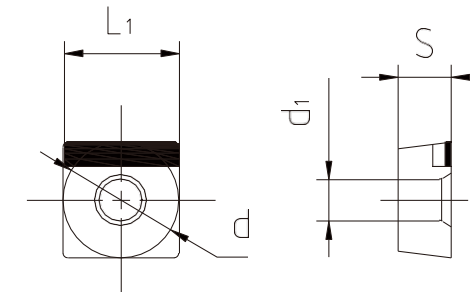
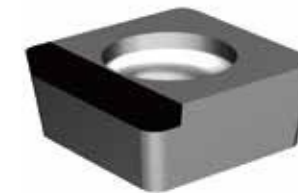
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGW060204SF03-X2	6.35	2.38	2.8	2.8	●	●	●
SCGW060204SF05-X2					●	●	●
SCGW060204SF07-X2					●	●	●
SCGW060208SF03-X2	6.35	2.38	2.8	2.8	●	●	●
SCGW060208SF05-X2					●	●	●
SCGW060208SF07-X2					●	●	●
SCGW09T304SF03-X2	9.525	3.97	2.8	3.1	●	●	●
SCGW09T304SF05-X2					●	●	●
SCGW09T304SF07-X2					●	●	●
SCGW09T308SF03-X2	9.525	3.97	4.4	3.1	●	●	●
SCGW09T308SF05-X2					●	●	●
SCGW09T308SF07-X2					●	●	●
SCGW120404SF03-X2	12.7	4.76	5.5	4.5	●	●	●
SCGW120404SF05-X2					●	●	●
SCGW120404SF07-X2					●	●	●
SCGW120408SF03-X2	12.7	4.76	5.5	4.5	●	●	●
SCGW120408SF05-X2					●	●	●
SCGW120408SF07-X2					●	●	●

PCD Tip with a Front Angle of 0 Degrees



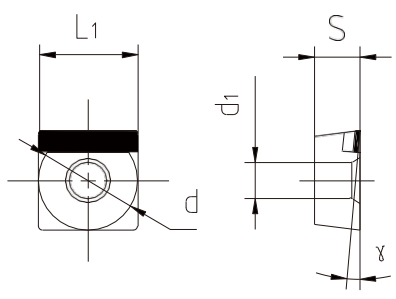
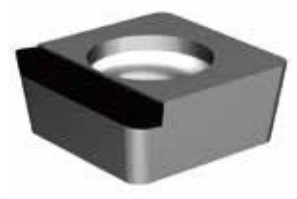
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGW060204SF00-X2	6.35	2.38	2.8	2.8	●	●	●
SCGW060208SF00-X2	6.35	2.38	2.8	2.8	●	●	●
SCGW09T304SF00-X2	9.525	3.97	2.8	3.1	●	●	●
SCGW09T308SF00-X2	9.525	3.97	4.4	3.1	●	●	●
SCGW120404SF00-X2	12.7	4.76	5.5	4.5	●	●	●
SCGW120408SF00-X2	12.7	4.76	5.5	4.5	●	●	●

PCD Tip with a Front Angle of 0 Degrees



Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGW060204LF00-R1	6.35	2.38	2.8	6.2	●	●	●
SCGW060208LF00-R1	6.35	2.38	2.8	6.2	●	●	●
SCGW09T304LF00-R1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T308LF00-R1	9.525	3.97	4.4	9.3	●	●	●
SCGW120404LF00-R1	12.7	4.76	5.5	12.4	●	●	●
SCGW120408LF00-R1	12.7	4.76	5.5	12.4	●	●	●
SCGW060204LF00-L1	6.35	2.38	2.8	6.2	●	●	●
SCGW060208LF00-L1	6.35	2.38	2.8	6.2	●	●	●
SCGW09T304LF00-L1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T308LF00-L1	9.525	3.97	4.4	9.3	●	●	●
SCGW120404LF00-L1	12.7	4.76	5.5	12.4	●	●	●
SCGW120408LF00-L1	12.7	4.76	5.5	12.4	●	●	●

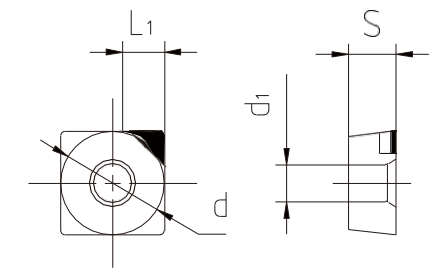
PCD Tip Front Corner



Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGW060204LF03-R1					●	●	●
SCGW060204LF04-R1	6.35	2.38	2.8	6.2	●	●	●
SCGW060204LF05-R1					●	●	●
SCGW060204LF07-R1					●	●	●
SCGW060208LF03-R1					●	●	●
SCGW060208LF04-R1	6.35	2.38	2.8	6.2	●	●	●
SCGW060208LF05-R1					●	●	●
SCGW060208LF07-R1					●	●	●
SCGW09T304LF03-R1					●	●	●
SCGW09T304LF04-R1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T304LF05-R1					●	●	●
SCGW09T304LF07-R1					●	●	●
SCGW09T308LF03-R1					●	●	●
SCGW09T308LF04-R1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T308LF05-R1					●	●	●
SCGW09T308LF07-R1					●	●	●
SCGW120404LF03-R1					●	●	●
SCGW120404LF04-R1	12.7	4.76	5.5	12.4	●	●	●
SCGW120404LF05-R1					●	●	●
SCGW120404LF07-R1					●	●	●
SCGW120408LF03-R1					●	●	●
SCGW120408LF04-R1	12.7	4.76	5.5	12.4	●	●	●
SCGW120408LF05-R1					●	●	●
SCGW120408LF07-R1					●	●	●
SCGW060204LF03-L1					6.35	2.38	2.8
SCGW060204LF04-L1	●	●	●				
SCGW060204LF05-L1	●	●	●				
SCGW060204LF07-L1	●	●	●				
SCGW060208LF03-L1	6.35	2.38	2.8	6.2	●	●	●
SCGW060208LF04-L1					●	●	●
SCGW060208LF05-L1					●	●	●
SCGW060208LF07-L1					●	●	●
SCGW09T304LF03-L1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T304LF04-L1					●	●	●
SCGW09T304LF05-L1					●	●	●
SCGW09T304LF07-L1					●	●	●

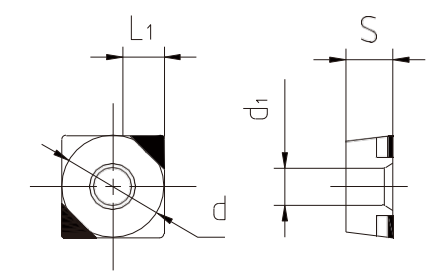
SCGW09T308LF03-L1	9.525	3.97	4.4	9.3	●	●	●
SCGW09T308LF04-L1					●	●	●
SCGW09T308LF05-L1					●	●	●
SCGW09T308LF07-L1					●	●	●
SCGW120404LF03-L1	12.7	4.76	5.5	12.4	●	●	●
SCGW120404LF04-L1					●	●	●
SCGW120404LF05-L1					●	●	●
SCGW120404LF07-L1					●	●	●
SCGW120408LF03-L1	12.7	4.76	5.5	12.4	●	●	●
SCGW120408LF04-L1					●	●	●
SCGW120408LF05-L1					●	●	●
SCGW120408LF07-L1					●	●	●

PCD Tip and Chip-Breaking Grooves



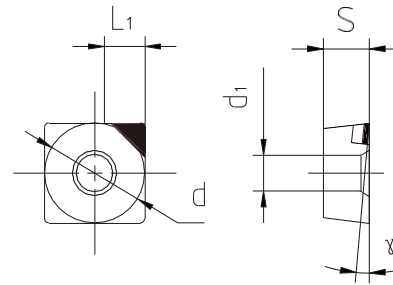
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGT09T304SF00-X1	9.525	3.97	4.4	4.4	●	●	●
SCGT09T308SF00-X1	9.525	3.97	4.4	4.3	●	●	●
SCGT120404SF00-X1	12.7	4.76	5.5	4.4	●	●	●
SCGT120408SF00-X1	12.7	4.76	5.5	4.3	●	●	●

PCD Tip and Chip-Breaking Grooves



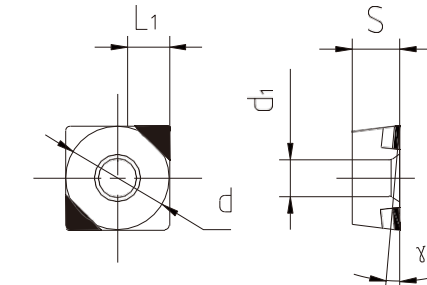
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SCGT09T304SF00-X2	9.525	3.97	4.4	4.4	●	●	●
SCGT09T308SF00-X2	9.525	3.97	4.4	4.3	●	●	●
SCGT120404SF00-X2	12.7	4.76	5.5	4.4	●	●	●
SCGT120408SF00-X2	12.7	4.76	5.5	4.3	●	●	●

PCD Tip Front Corner



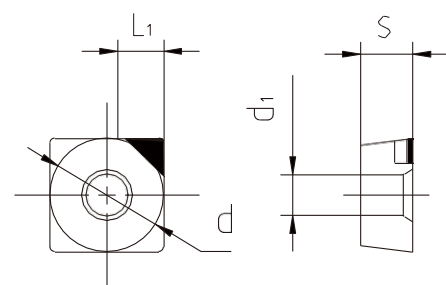
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW 060304 SF03-X1	6.35	3.18	2.8	2.8	●	●	●
SPGW 060304 SF05-X1					●	●	●
SPGW 060304 SF07-X1					●	●	●
SPGW 060308 SF03-X1	6.35	3.18	2.8	2.8	●	●	●
SPGW 060308 SF05-X1					●	●	●
SPGW 060308 SF07-X1					●	●	●
SPGW 09T304 SF03-X1	9.525	3.97	4.4	3.1	●	●	●
SPGW 09T304 SF05-X1					●	●	●
SPGW 09T304 SF07-X1					●	●	●
SPGW 09T308 SF03-X1	9.525	3.97	4.4	3.1	●	●	●
SPGW 09T308 SF05-X1					●	●	●
SPGW 09T308 SF07-X1					●	●	●

PCD Tip Front Corner



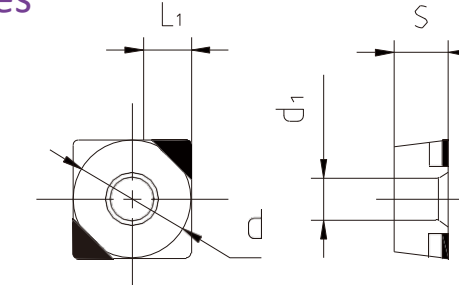
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW 060304 SF03-X2	6.35	3.18	2.8	2.8	●	●	●
SPGW 060304 SF05-X2					●	●	●
SPGW 060304 SF07-X2					●	●	●
SPGW 060308 SF03-X2	6.35	3.18	2.8	2.8	●	●	●
SPGW 060308 SF05-X2					●	●	●
SPGW 060308 SF07-X2					●	●	●
SPGW 09T304 SF03-X2	9.525	3.97	4.4	3.1	●	●	●
SPGW 09T304 SF05-X2					●	●	●
SPGW 09T304 SF07-X2					●	●	●
SPGW 09T308 SF03-X2	9.525	3.97	4.4	3.1	●	●	●
SPGW 09T308 SF05-X2					●	●	●
SPGW 09T308 SF07-X2					●	●	●

PCD Tip with a Front Angle of 0 Degrees



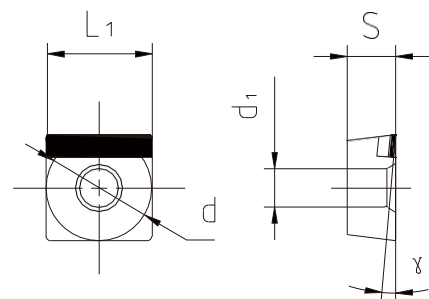
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW060304SF00-X1	6.35	3.18	2.8	2.8	●	●	●
SPGW060308SF00-X1	6.35	3.18	2.8	2.8	●	●	●
SPGW09T304SF00-X1	9.525	3.97	4.4	3.1	●	●	●
SPGW09T308SF00-X1	9.525	3.97	4.4	3.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



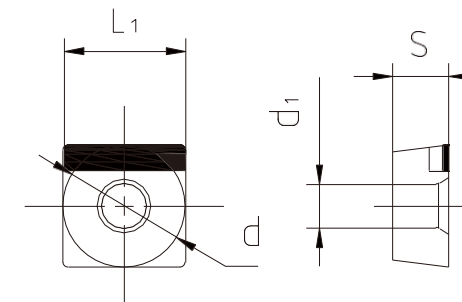
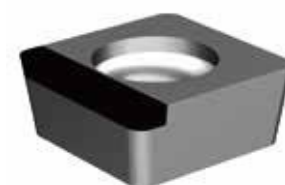
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW060304SF00-X2	6.35	3.18	2.8	2.8	●	●	●
SPGW060308SF00-X2	6.35	3.18	2.8	2.8	●	●	●
SPGW09T304SF00-X2	9.525	3.97	4.4	3.1	●	●	●
SPGW09T308SF00-X2	9.525	3.97	4.4	3.1	●	●	●

PCD Tip Front Corner



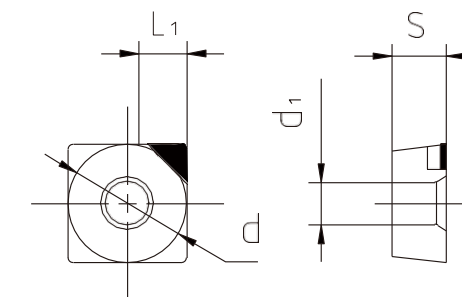
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW060304LF03-R1	6.35	3.18	2.8	6.2	●	●	●
SPGW060304LF04-R1					●	●	●
SPGW060304LF05-R1					●	●	●
SPGW060304LF07-R1					●	●	●
SPGW060308LF03-R1	6.35	3.18	2.8	6.2	●	●	●
SPGW060308LF04-R1					●	●	●
SPGW060308LF05-R1					●	●	●
SPGW060308LF07-R1					●	●	●
SPGW09T304LF03-R1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T304LF04-R1					●	●	●
SPGW09T304LF05-R1					●	●	●
SPGW09T304LF07-R1					●	●	●
SPGW09T308LF03-R1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T308LF04-R1					●	●	●
SPGW09T308LF05-R1					●	●	●
SPGW09T308LF07-R1					●	●	●
SPGW060304LF03-L1	6.35	3.18	2.8	6.2	●	●	●
SPGW060304LF04-L1					●	●	●
SPGW060304LF05-L1					●	●	●
SPGW060304LF07-L1					●	●	●
SPGW060308LF03-L1	6.35	3.18	2.8	6.2	●	●	●
SPGW060308LF04-L1					●	●	●
SPGW060308LF05-L1					●	●	●
SPGW060308LF07-L1					●	●	●
SPGW09T304LF03-L1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T304LF04-L1					●	●	●
SPGW09T304LF05-L1					●	●	●
SPGW09T304LF07-L1					●	●	●
SPGW09T308LF03-L1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T308LF04-L1					●	●	●
SPGW09T308LF05-L1					●	●	●
SPGW09T308LF07-L1					●	●	●

PCD Tip with a Front Angle of 0 Degrees



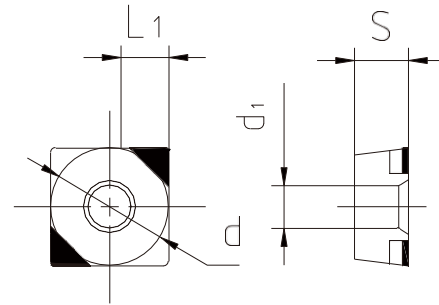
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGW060304LF00-R1	6.35	3.18	2.8	6.2	●	●	●
SPGW060308LF00-R1	6.35	3.18	2.8	6.2	●	●	●
SPGW09T304LF00-R1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T308LF00-R1	9.525	3.97	4.4	9.3	●	●	●
SPGW060304LF00-L1	6.35	3.18	2.8	6.2	●	●	●
SPGW060308LF00-L1	6.35	3.18	2.8	6.2	●	●	●
SPGW09T304LF00-L1	9.525	3.97	4.4	9.3	●	●	●
SPGW09T308LF00-L1	9.525	3.97	4.4	9.3	●	●	●

PCD Tip and Chip-Breaking Grooves



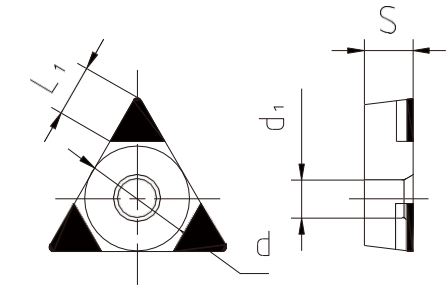
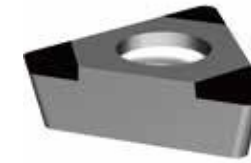
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGT060304SF00-X1	6.35	3.18	2.8	2.8	●	●	●
SPGT060308SF00-X1	6.35	3.18	2.8	2.8	●	●	●
SPGT09T304SF00-X1	9.525	3.97	4.4	3.1	●	●	●
SPGT09T308SF00-X1	9.525	3.97	4.4	3.1	●	●	●

PCD Tip and Chip-Breaking Grooves



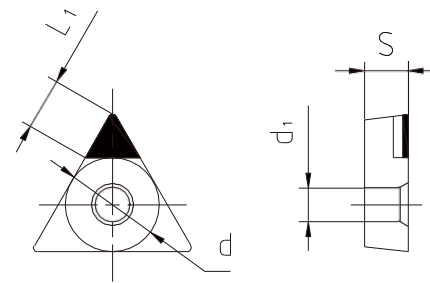
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
SPGT060304SF00-X2	6.35	3.18	2.8	2.8	●	●	●
SPGT060308SF00-X2	6.35	3.18	2.8	2.8	●	●	●
SPGT09T304SF00-X2	9.525	3.97	4.4	3.1	●	●	●
SPGT09T308SF00-X2	9.525	3.97	4.4	3.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



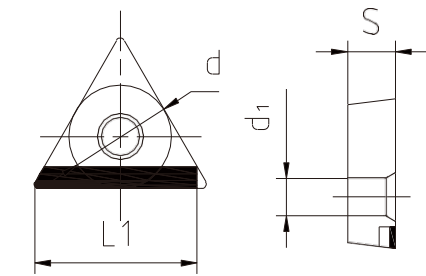
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGW090204SF00-X3	5.56	2.38	2.5	3.4	●	●	●
TCGW090208SF00-X3	5.56	2.38	2.5	3.1	●	●	●
TCGW110204SF00-X3	6.35	2.38	2.8	3.8	●	●	●
TCGW110208SF00-X3	6.35	2.38	2.8	3.5	●	●	●
TCGW16T304SF00-X3	9.525	3.97	4.4	5.4	●	●	●
TCGW16T308SF00-X3	9.525	3.97	4.4	5.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



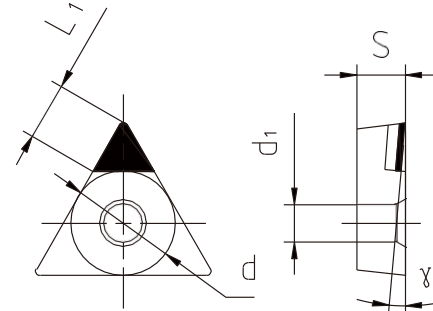
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGW090204SF00-X1	5.56	2.38	2.5	3.4	●	●	●
TCGW090208SF00-X1	5.56	2.38	2.5	3.1	●	●	●
TCGW110204SF00-X1	6.35	2.38	2.8	3.8	●	●	●
TCGW110208SF00-X1	6.35	2.38	2.8	3.5	●	●	●
TCGW16T304SF00-X1	9.525	3.97	4.4	5.4	●	●	●
TCGW16T308SF00-X1	9.525	3.97	4.4	5.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



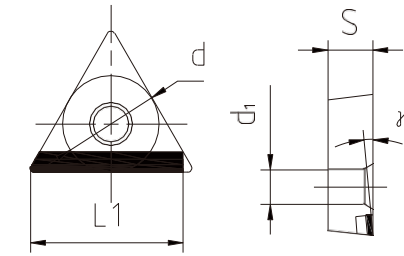
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGW090204LF00-R1	5.56	2.38	2.5	8.6	●	●	●
TCGW090208LF00-R1	5.56	2.38	2.5	8.3	●	●	●
TCGW110204LF00-R1	6.35	2.38	2.8	9.8	●	●	●
TCGW110208LF00-R1	6.35	2.38	2.8	9.5	●	●	●
TCGW16T304LF00-R1	9.525	3.97	4.4	15	●	●	●
TCGW16T304LF00-R1	9.525	3.97	4.4	14.7	●	●	●
TCGW090204LF00-L1	5.56	2.38	2.5	8.6	●	●	●
TCGW090208LF00-L1	5.56	2.38	2.5	8.3	●	●	●
TCGW110204LF00-L1	6.35	2.38	2.8	9.8	●	●	●
TCGW110208LF00-L1	6.35	2.38	2.8	9.5	●	●	●
TCGW16T304LF00-L1	9.525	3.97	4.4	15	●	●	●
TCGW16T308LF00-L1	9.525	3.97	4.4	14.7	●	●	●

PCD Tip Front Corner



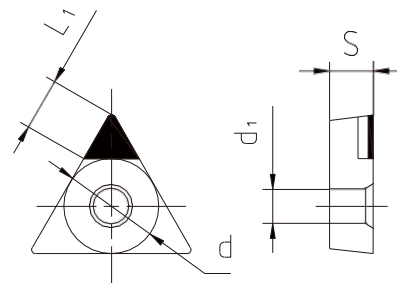
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGW 090204 SF03-X1	5.56	2.38	2.5	3.4	●	●	●
TCGW 090204 SF04-X1					●	●	●
TCGW 090204 SF05-X1					●	●	●
TCGW 090204 SF07-X1					●	●	●
TCGW 090204 SF10-X1					●	●	●
TCGW 090204 SF15-X1					●	●	●
TCGW 090208 SF03-X1	5.56	2.38	2.5	3.1	●	●	●
TCGW 090208 SF04-X1					●	●	●
TCGW 090208 SF05-X1					●	●	●
TCGW 090208 SF07-X1					●	●	●
TCGW 090208 SF10-X1					●	●	●
TCGW 090208 SF15-X1					●	●	●
TCGW 110204 SF03-X1	6.35	2.38	2.8	3.8	●	●	●
TCGW 110204 SF04-X1					●	●	●
TCGW 110204 SF05-X1					●	●	●
TCGW110204SF07-X1					●	●	●
TCGW110204SF10-X1					●	●	●
TCGW110204SF15-X1					●	●	●
TCGW110208SF03-X1	6.35	2.38	2.8	3.5	●	●	●
TCGW110208SF04-X1					●	●	●
TCGW 110208 SF05-X1					●	●	●
TCGW 110208 SF07-X1					●	●	●
TCGW110208SF10-X1					●	●	●
TCGW110208SF15-X1					●	●	●
TCGW16T304SF03-X1	9.525	3.97	4.4	5.4	●	●	●
TCGW16T304SF04-X1					●	●	●
TCGW16T304SF05-X1					●	●	●
TCGW 16T304 SF07-X1					●	●	●
TCGW16T304SF10-X1					●	●	●
TCGW16T304SF15-X1					●	●	●
TCGW16T308SF03-X1	9.525	3.97	4.4	5.1	●	●	●
TCGW16T308SF04-X1					●	●	●
TCGW16T308SF05-X1					●	●	●
TCGW16T308SF07-X1					●	●	●
TCGW 16T308 SF10-X1					●	●	●
TCGW 16T308 SF15-X1					●	●	●

PCD Tip Front Corner



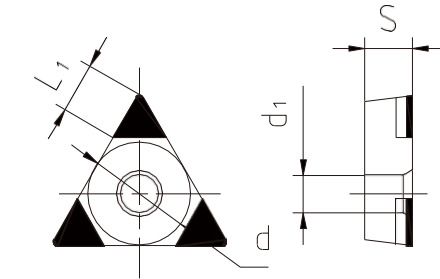
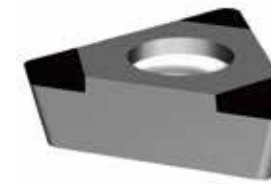
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGT090204LF05-R1	5.56	2.38	2.5	8.6	●	●	●
TCGT090204LF07-R1					●	●	●
TCGT090204LF10-R1					●	●	●
TCGT090208LF05-R1	5.56	2.38	2.5	8.3	●	●	●
TCGT090208LF07-R1					●	●	●
TCGT090208LF10-R1					●	●	●
TCGT110204LF05-R1	6.35	2.38	2.8	9.8	●	●	●
TCGT110204LF07-R1					●	●	●
TCGT110204LF10-R1					●	●	●
TCGT110208LF05-R1	6.35	2.38	2.8	9.5	●	●	●
TCGT110208LF07-R1					●	●	●
TCGT110208LF10-R1					●	●	●
TCGT16T304LF05-R1	9.525	3.97	4.4	15	●	●	●
TCGT16T304LF07-R1					●	●	●
TCGT16T304LF10-R1					●	●	●
TCGT16T308LF05-R1	9.525	3.97	4.4	14.7	●	●	●
TCGT16T308LF07-R1					●	●	●
TCGT16T308LF10-R1					●	●	●
TCGT090204LF05-L1	5.56	2.38	2.5	8.6	●	●	●
TCGT090204LF07-L1					●	●	●
TCGT090204LF10-L1					●	●	●
TCGT090208LF05-L1	5.56	2.38	2.5	8.3	●	●	●
TCGT090208LF07-L1					●	●	●
TCGT090208LF10-L1					●	●	●
TCGT110204LF05-L1	6.35	2.38	2.8	9.8	●	●	●
TCGT110204LF07-L1					●	●	●
TCGT110204LF10-L1					●	●	●
TCGT110208LF05-L1	6.35	2.38	2.8	9.5	●	●	●
TCGT110208LF07-L1					●	●	●
TCGT110208LF10-L1					●	●	●
TCGT16T304LF05-L1	9.525	3.97	4.4	15	●	●	●
TCGT16T304LF07-L1					●	●	●
TCGT16T304LF10-L1					●	●	●
TCGT16T308LF05-L1	9.525	3.97	4.4	14.7	●	●	●
TCGT16T308LF07-L1					●	●	●
TCGT16T308LF10-L1					●	●	●

PCD Tip and Chip-Breaking Grooves



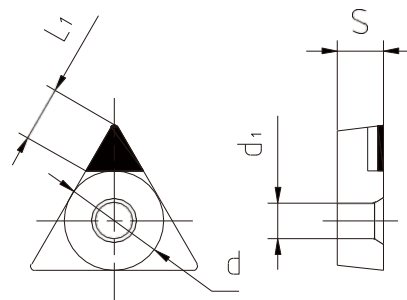
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TCGT110202SF00-X1	6.35	2.38	2.8	3.7	●	●	●
TCGT110204SF00-X1	6.35	2.38	2.8	3.4	●	●	●

PCD Tip with a Front Angle of 0 Degrees



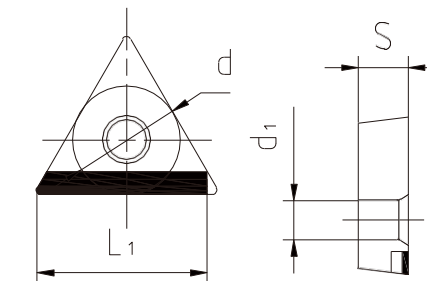
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TPGW090204SF00-X3	5.56	2.38	2.4	3.4	●	●	●
TPGW090208SF00-X3	5.56	2.38	2.4	3.1	●	●	●
TPGW110204SF00-X3	6.35	2.38	2.9	3.8	●	●	●
TPGW110208SF00-X3	6.35	2.38	2.9	3.5	●	●	●
TPGW16T304SF00-X3	9.525	3.97	4.4	5.4	●	●	●
TPGW16T308SF00-X3	9.525	3.97	4.4	5.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



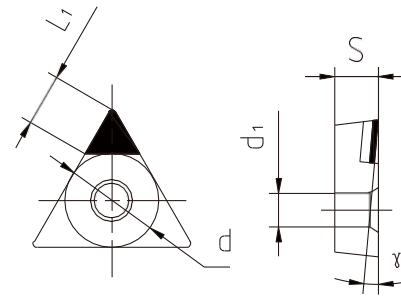
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TPGW090204SF00-X1	5.56	2.38	2.4	3.4	●	●	●
TPGW090208SF00-X1	5.56	2.38	2.4	3.1	●	●	●
TPGW110204SF00-X1	6.35	2.38	2.9	3.8	●	●	●
TPGW110208SF00-X1	6.35	2.38	2.9	3.5	●	●	●
TPGW16T304SF00-X1	9.525	3.97	4.4	5.4	●	●	●
TPGW16T308SF00-X1	9.525	3.97	4.4	5.1	●	●	●

PCD Tip with a Front Angle of 0 Degrees



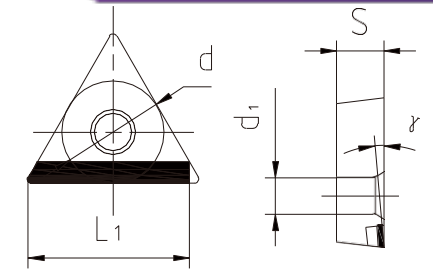
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TPGW090204LF00-R1	5.56	2.38	2.5	8.6	●	●	●
TPGW090208LF00-R1	5.56	2.38	2.5	8.3	●	●	●
TPGW110204LF00-R1	6.35	2.38	2.8	9.8	●	●	●
TPGW110208LF00-R1	6.35	2.38	2.8	9.5	●	●	●
TPGW16T304LF00-R1	9.525	3.97	4.4	15	●	●	●
TPGW16T308LF00-R1	9.525	3.97	4.4	14.7	●	●	●
TPGW090204LF00-L1	5.56	2.38	2.5	8.6	●	●	●
TPGW090208LF00-L1	5.56	2.38	2.5	8.3	●	●	●
TPGW110204LF00-L1	6.35	2.38	2.8	9.8	●	●	●
TPGW110208LF00-L1	6.35	2.38	2.8	9.5	●	●	●
TPGW16T304LF00-L1	9.525	3.97	4.4	15	●	●	●
TPGW16T308LF00-L1	9.525	3.97	4.4	14.7	●	●	●

PCD Tip Front Corner



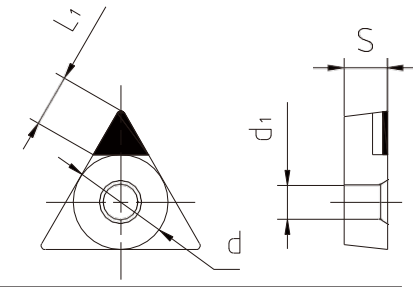
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TPGW090204SF03-X1	5.56	2.38	2.4	3.4	●	●	●
TPGW090204SF04-X1					●	●	●
TPGW090204SF05-X1					●	●	●
TPGW090204SF07-X1					●	●	●
TPGW090204SF10-X1					●	●	●
TPGW090204SF15-X1					●	●	●
TPGW090208SF03-X1	5.56	2.38	2.4	3.1	●	●	●
TPGW090208SF04-X1					●	●	●
TPGW090208SF05-X1					●	●	●
TPGW090208SF07-X1					●	●	●
TPGW090208SF10-X1					●	●	●
TPGW090208SF15-X1					●	●	●
TPGW110204SF03-X1	6.35	2.38	2.9	3.8	●	●	●
TPGW110204SF04-X1					●	●	●
TPGW110204SF05-X1					●	●	●
TPGW110204SF07-X1					●	●	●
TPGW110204SF10-X1					●	●	●
TPGW110204SF15-X1					●	●	●
TPGW110208SF03-X1	6.35	2.38	2.9	3.5	●	●	●
TPGW110208SF04-X1					●	●	●
TPGW110208SF05-X1					●	●	●
TPGW110208SF07-X1					●	●	●
TPGW110208SF10-X1					●	●	●
TPGW110208SF15-X1					●	●	●
TPGW16T304SF03-X1	9.525	3.97	4.4	5.4	●	●	●
TPGW16T304SF04-X1					●	●	●
TPGW16T304SF05-X1					●	●	●
TPGW16T304SF07-X1					●	●	●
TPGW16T304SF10-X1					●	●	●
TPGW16T304SF15-X1					●	●	●
TPGW16T308SF03-X1	9.525	3.97	4.4	5.1	●	●	●
TPGW16T308SF04-X1					●	●	●
TPGW16T308SF05-X1					●	●	●
TPGW16T308SF07-X1					●	●	●
TPGW16T308SF10-X1					●	●	●
TPGW16T308SF15-X1					●	●	●

PCD Tip Front Corner



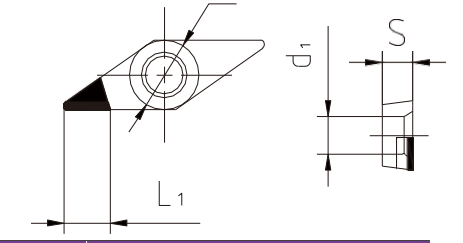
Model	Size				Material						
	d	S	d ₁	L ₁	GT25	GT10	GT302				
TPGW090204LF05-R1	5.56	2.38	2.5	8.6	●	●	●				
TPGW090204LF07-R1					●	●	●				
TPGW090204LF10-R1					●	●	●				
TPGW090208LF05-R1					5.56	2.38	2.5	8.3	●	●	●
TPGW090208LF07-R1									●	●	●
TPGW090208LF10-R1									●	●	●
TPGW110204LF05-R1	6.35	2.38	2.8	9.8	●	●	●				
TPGW110204LF07-R1					●	●	●				
TPGW110204LF10-R1					●	●	●				
TPGW110208LF05-R1	6.35	2.38	2.8	9.5	●	●	●				
TPGW110208LF07-R1					●	●	●				
TPGW110208LF10-R1					●	●	●				
TPGW16T304LF05-R1	9.525	3.97	4.4	15	●	●	●				
TPGW16T304LF07-R1					●	●	●				
TPGW16T304LF10-R1					●	●	●				
TPGW16T308LF05-R1	9.525	3.97	4.4	14.7	●	●	●				
TPGW16T308LF07-R1					●	●	●				
TPGW16T308LF10-R1					●	●	●				
TPGW090204LF05-L1	5.56	2.38	2.5	8.6	●	●	●				
TPGW090204LF07-L1					●	●	●				
TPGW090204LF10-L1					●	●	●				
TPGW090208LF05-L1	5.56	2.38	2.5	8.3	●	●	●				
TPGW090208LF07-L1					●	●	●				
TPGW090208LF10-L1					●	●	●				
TPGW110204LF05-L1	6.35	2.38	2.8	9.8	●	●	●				
TPGW110204LF07-L1					●	●	●				
TPGW110204LF10-L1					●	●	●				
TPGW110208LF05-L1	6.35	2.38	2.8	9.5	●	●	●				
TPGW110208LF07-L1					●	●	●				
TPGW110208LF10-L1					●	●	●				
TPGW16T304LF05-L1	9.525	3.97	4.4	15	●	●	●				
TPGW16T304LF07-L1					●	●	●				
TPGW16T304LF10-L1					●	●	●				
TPGW16T308LF05-L1	9.525	3.97	4.4	14.7	●	●	●				
TPGW16T308LF07-L1					●	●	●				
TPGW16T308LF10-L1					●	●	●				

PCD Tip and Chip-Breaking Grooves



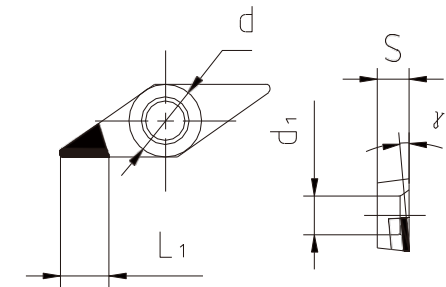
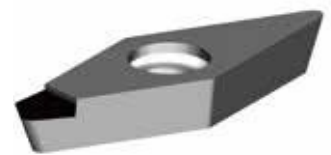
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
TPGT110202SF00-X1	6.35	2.38	2.8	3.7	●	●	●
TPGT110204SF00-X1	6.35	2.38	2.8	3.4	●	●	●

PCD Tip with a Front Angle of 0 Degrees



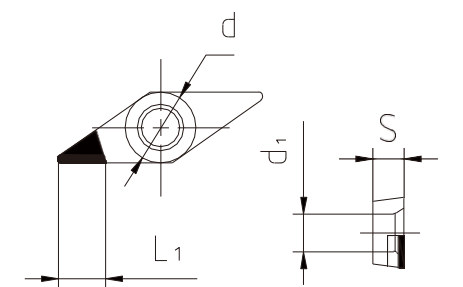
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VBGW110304SF00-X1	6.35	3.18	2.9	4.6	●	●	●
VBGW110308SF00-X1	6.35	3.18	2.9	3.9	●	●	●
VBGW160404SF00-X1	9.525	4.76	4.4	5.5	●	●	●
VBGW160408SF00-X1	9.525	4.76	4.4	5	●	●	●

PCD Tip Front Corner



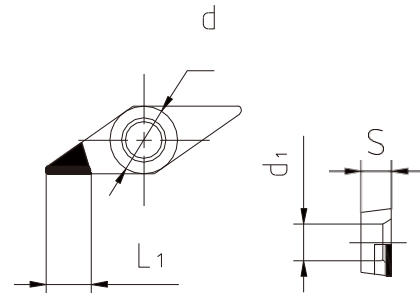
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VBGW110304SF05-X1	6.35	3.18	2.9	4.6	●	●	●
VBGW110304SF07-X1					●	●	●
VBGW110304SF10-X1					●	●	●
VBGW110308SF05-X1	6.35	3.18	2.9	3.9	●	●	●
VBGW110308SF07-X1					●	●	●
VBGW110308SF10-X1					●	●	●
VBGW160404SF05-X1	9.525	4.76	4.4	5.5	●	●	●
VBGW160404SF07-X1					●	●	●
VBGW160404SF10-X1					●	●	●
VBGW160408SF05-X1	9.525	4.76	4.4	5	●	●	●
VBGW160408SF07-X1					●	●	●
VBGW160408SF10-X1					●	●	●

PCD Tip and Chip-Breaking Grooves



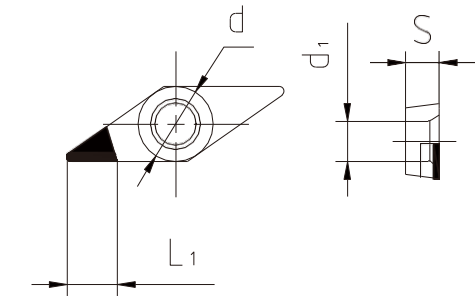
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VBGT110304SF00-X1	6.35	3.18	2.9	4.6	●	●	●
VBGT110308SF00-X1	6.35	3.18	2.9	3.9	●	●	●
VBGT160404SF00-X1	9.525	4.76	4.4	5.5	●	●	●
VBGT160408SF00-X1	9.525	4.76	4.4	5	●	●	●

PCD tip With a Front Angle of 0 Degrees



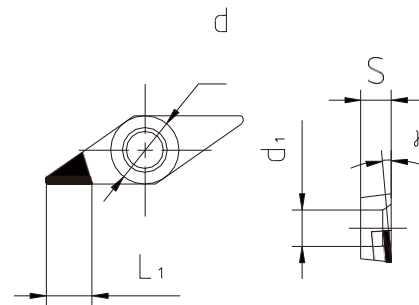
Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VCGW110304SF00-X1	6.35	3.18	2.9	4.6	●	●	●
VCGW110308SF00-X1	6.35	3.18	2.9	3.9	●	●	●
VCGW160404SF00-X1	9.525	4.76	4.4	5.5	●	●	●
VCGW160408SF00-X1	9.525	4.76	4.4	5	●	●	●

PCD Tip and Chip-Breaking Grooves



Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VCGW110302SF00-X1	6.35	3.18	2.8	4.6	●	●	●
VCGW110304SF00-X1	6.35	3.18	2.8	3.9	●	●	●
VCGW160404SF00-X1	9.525	4.76	4.4	5.5	●	●	●
VCGW160408SF00-X1	9.525	4.76	4.4	5	●	●	●

PCD Tip Front Corner



Model	Size				Material		
	d	S	d ₁	L ₁	GT25	GT10	GT302
VCGW110304SF05-X1	6.35	3.18	2.9	4.6	●	●	●
VCGW110304SF07-X1					●	●	●
VCGW110304SF10-X1					●	●	●
VCGW110308SF05-X1	6.35	3.18	2.9	3.9	●	●	●
VCGW110308SF07-X1					●	●	●
VCGW110308SF10-X1					●	●	●
VCGW160404SF05-X1	9.525	4.76	4.4	5.5	●	●	●
VCGW160404SF07-X1					●	●	●
VCGW160404SF10-X1					●	●	●
VCGW160408SF05-X1	9.525	4.76	4.4	5	●	●	●
VCGW160408SF07-X1					●	●	●
VCGW160408SF10-X1					●	●	●

Technical Guidance and Car Threading Foundation

	Question	The Cause	Correction
Damage to the cutting edge	Extreme wear of the cutting edge	Tool material	Use tool materials with higher wear resistance
		Cutting conditions	Reduce cutting speed. Appropriate amount of coolant, concentration Change the number of passes
	Left and right wear is uneven	The installation of the tool	For the lead angle of the thread, confirm that the cutting edge inclination is suitable Confirm that the tool is clamped correctly
		Cutting conditions	Change to correct single-edged cutting or interactive single-edged cutting
	small collapse	Cutting conditions	Increase the cutting speed when adhesion to a chip tumor
	damage	The embedding of the cutting	Supply a large amount of cutting oil to the edge first
Cutting conditions		Increase the number of passes and reduce the depth of cut each pass Tool is separated during roughing and finishing	
Shape Accuracy	Finished surface roughness is not good	Cutting conditions	When there is a cracking condition in low-speed machining, increase the cutting speed When vibration occurs, reduce the cutting speed. The amount of depth of the last cut of the last pass is increased by an hour
		Tool material	Use tool materials that are more wear resistant
		Inappropriate cutting edge inclination	To ensure the rear corners on the side of the blade, select the correct gasket
	The thread shape is poor	The installation of the tool	Make sure that the tool is clamped correctly
	The thread depth is not sufficient	The depth of cut is small	The confirmation of the depth of the cut
Wear of the tool		Confirm the blade damage status of the tool first	

Technical Guidance and Milling Foundation

Serial number	Name	Ellipsis	Function	Effect
1	Axis forward angle Diameter forward angle	A.R. R.R.	Determine the direction, melting, axial force, etc. of the chip discharge	There are a variety of front angles from positive to negative (large to small). Positive and negative, positive and negative, negative, and negative are typical combinations
2	Outer cut edge angle (main angle)	Cutting conditions	Determine the thickness of the cutting and the direction of discharge	When the angle is large: chip thickness reduction Cutting load eases
3	True front angle (tool forward inclination)	Cutting conditions	Effective front corner	When the angle is positive (large): good cutting, not easy to stick, cutting edge strength is lower, angle is negative (small): The cutting edge is stronger, but it sticks easily
4	Cut the edge angle	The embedding of the cutting	Determines the direction in which the chips are discharged	When the angle is positive (large): discharge is good, the cutting resistance is small, and the corner strength is worse
5	End face cutting edge angle (phase angle)	Cutting conditions	Determines the roughness of the finished surface	When the angle is negative (small): The surface roughness increases
6	Rear corner (gap angle)	Cutting conditions	Determines edge strength, tool life, vibration, etc	

Technical Guidance and End Milling Machinery Problems and Countermeasures

	Question	The Cause		That's Right
Damage to the Cutting Edge	Extreme wear	Cutting conditions Tool shape Tool material	Feed fast The cutting speed is fast The corner of the knife is small after the outer week Poor wear resistance	Reduce cutting speed, feed speed Select the appropriate peripheral corner Choose a master material with high wear resistance Select a coated blade
	Small collapse	Cutting conditions Around the machine	Feed fast The depth of the cut is large The blade is long in length The clip is weakly clamped by the cutting material The tool installation is not stable	Reduce the feed speed Reduce the depth of the cut, Reduce overhang Securely secure the cut material, Increase the grip strength of the tool
	Loss	Cutting conditions Sword shape	Feed fast The depth of the cut is large The blade is long in length Down-milling The core thickness is small	Reduce the feed speed Reduce the depth of the cut Minimize overhang Use a tool with a short blade Use the appropriate core thickness
Other	The wall collapsed	Cutting conditions Sword shape	Feed fast The depth of the cut is large The blade is long in length Down-milling The spiral angle is large The core is thick and thin	Reduce the feed speed Reduce the depth of the cut Reduce overhang Select Reverse Milling Use a milling cutter with a small helix angle Use a milling cutter with the appropriate core thickness
	Poor finishing surface	Cutting conditions	Feed fast The embedding of chips	Reduce the feed speed Air-cooled implementation Increase the concave angle of the bottom edge
	Vibration in cutting	Cutting conditions Tool shape Around the machine	The cutting speed is fast Reverse mill cutting The blade has a large overhang The front corner is large The clip is weakly clamped by the cutting material The tool installation is not stable	Reduce cutting speed Choose down-milling Reduce overhang Select the appropriate front corner Securely secure the cut material Increase the grip strength of the tool
	The cutting is blocked	Cutting conditions Tool shape	Feed fast The embedding of chips The depth of the cut is large Many blades	Reduce the feed speed Reduce the depth of the cut Reduce the number of edges Air-cooled implementation