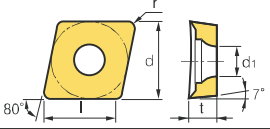
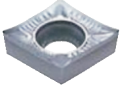
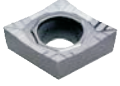


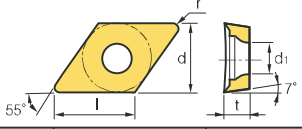
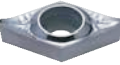

A Inserts

CC ○ ○  Rhombic **80° Positive** Relief Angle : 7°


Workpiece	Steel	P					Machining types							
	Stainless steel	M					● Continuous cutting	● General cutting	⊕ Interrupted cutting					
	Cast iron	K												
	Non-ferrous metal	N												
	Heat resistant alloy, Titanium alloy	S												
	Hardened steel	H												
Inserts	Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Available toolholders
		KTW	KKW	KW135	KW12	H01	l	d	t	r	d ₁	f _n	a _p	Designation
	CCGT 060202-AK			●	●	●	6.2	6.35	2.38	0.2	2.8	0.01~0.12	0.05~3.00	SCACR/L
	060204-AK			●	●	●	6.0	6.35	2.38	0.4	2.8	0.02~0.15	0.10~3.00	SCLCR/L
	060208-AK			●	●	●	5.6	6.35	2.38	0.8	2.8	0.02~0.20	0.10~4.00	
	09T302-AK			●	●	●	9.4	9.525	3.97	0.2	4.4	0.02~0.20	0.05~3.00	
	09T304-AK			●	●	●	9.2	9.525	3.97	0.4	4.4	0.02~0.30	0.10~5.00	
	09T308-AK			●	●	●	8.8	9.525	3.97	0.8	4.4	0.03~0.50	0.10~5.00	
	120402-AK			●	●	●	12.6	12.7	4.76	0.2	5.5	0.02~0.30	0.05~4.00	
	120404-AK			●	●	●	12.4	12.7	4.76	0.4	5.5	0.03~0.50	0.10~5.00	
	CCGT 060202-AR			●	●	●	6.2	6.35	2.38	0.2	2.8	0.02~0.30	0.30~4.00	SCACR/L
	060204-AR			●	●	●	6.0	6.35	2.38	0.4	2.8	0.03~0.35	0.50~4.50	SCLCR/L
	060208-AR			●	●	●	5.6	6.35	2.38	0.8	2.8	0.04~0.50	0.50~4.50	
	09T302-AR			●	●	●	9.4	9.525	3.97	0.2	4.4	0.03~0.45	0.30~4.00	
	09T304-AR			●	●	●	9.2	9.525	3.97	0.4	4.4	0.04~0.50	0.50~4.50	
	09T308-AR			●	●	●	8.8	9.525	3.97	0.8	4.4	0.05~0.60	0.50~6.00	
	120402-AR			●	●	●	12.6	12.7	4.76	0.2	5.5	0.04~0.50	0.30~5.00	
	120404-AR			●	●	●	12.4	12.7	4.76	0.4	5.5	0.05~0.60	0.50~6.00	
	120408-AR			●	●	●	12.0	12.7	4.76	0.8	5.5	0.06~0.65	0.50~6.00	
	120412-AR			●	●	●	11.6	12.7	4.76	1.2	5.5	0.08~0.70	0.50~6.50	

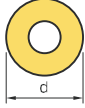
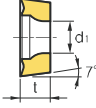


● : Stock item ○ : Under preparing for stock

DC ○ ○  Rhombic **55° Positive** Relief Angle : 7°

Workpiece	Steel	P					Machining types							
	Stainless steel	M					● Continuous cutting	● General cutting	⊕ Interrupted cutting					
	Cast iron	K												
	Non-ferrous metal	N												
	Heat resistant alloy, Titanium alloy	S												
	Hardened steel	H												
Inserts	Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Available toolholders
		KTW	KKW	KW135	KW12	H01	l	d	t	r	d ₁	f _n	a _p	Designation
	DCGT 070202-AK			●	●	●	7.5	6.35	2.38	0.2	2.8	0.01~0.20	0.05~3.00	SDACR/L
	070204-AK			●	●	●	7.3	6.35	2.38	0.4	2.8	0.02~0.30	0.10~4.00	SDJCR/L
	070208-AK			●	●	●	6.8	6.35	2.38	0.8	2.8	0.03~0.40	0.10~4.00	SDNCN
	11T302-AK			●	●	●	11.4	9.525	3.97	0.2	4.4	0.02~0.30	0.05~4.00	SDQCR/L
	11T304-AK			●	●	●	11.2	9.525	3.97	0.4	4.4	0.03~0.50	0.10~5.00	SDUCR/L
	11T308-AK			●	●	●	10.8	9.525	3.97	0.8	4.4	0.03~0.50	0.10~5.00	SDZCR/L
	11T312-AK			●	●	●	10.4	9.525	3.97	1.2	4.4	0.04~0.60	0.15~5.00	
	DCGT 070202-AR			●	●	●	7.5	6.35	2.38	0.2	2.8	0.02~0.30	0.30~4.00	SDACR/L
	070204-AR			●	●	●	7.3	6.35	2.38	0.4	2.8	0.03~0.40	0.50~5.00	SDJCR/L
	070208-AR			●	●	●	6.8	6.35	2.38	0.8	2.8	0.04~0.50	0.50~5.00	SDNCN
	11T302-AR			●	●	●	11.4	9.525	3.97	0.2	4.4	0.03~0.45	0.30~6.00	SDQCR/L
	11T304-AR			●	●	●	11.2	9.525	3.97	0.4	4.4	0.04~0.50	0.50~6.00	SDUCR/L
	11T308-AR			●	●	●	10.8	9.525	3.97	0.8	4.4	0.05~0.60	0.50~6.00	SDZCR/L
	11T312-AR			●	●	●	10.4	9.525	3.97	1.2	4.4	0.08~0.65	0.50~6.50	

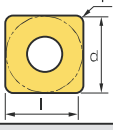
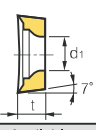
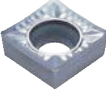
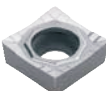
● : Stock item ○ : Under preparing for stock

RC ○ ○ ○  Round **Positive** Relief Angle : 7°

Workpiece	Steel	P					Machining types						 
	Stainless steel	M					● Continuous cutting	● General cutting	✱ Interrupted cutting				
	Cast iron	K											
	Non-ferrous metal	N											
	Heat resistant alloy, Titanium alloy	S											
	Hardened steel	H											
Inserts	Designation	Coated			Uncoated		Dimensions (mm)			Cutting Condition		Available toolholders	
		KTW	KKW	KW135	KW12	H01	d	t	d ₁	f _n	a _p	Designation	Page
	RCGT 0602M0-AK					●	6.0	2.38	2.8	0.05~0.20	0.50~2.00	SRDCN	B83
	0803M0-AK					●	8.0	3.18	3.35	0.05~0.25	0.50~2.50	SRGCR/L	B84
	1003M0-AK					●	10.0	3.18	4.0	0.10~0.30	1.00~3.00		
	10T3M0-AK						10.0	3.97	4.4	0.10~0.30	1.00~3.00		
	1204M0-AK					●	12.0	4.76	4.4	0.10~0.35	1.00~3.50		
	RCGT 0602M0-AR					●	6.0	2.38	2.8	0.05~0.20	0.50~2.00	SRDCN	B83
	0803M0-AR					●	8.0	3.18	3.35	0.05~0.25	0.50~2.50	SRGCR/L	B84
	1003M0-AR					●	10.0	3.18	4.0	0.10~0.30	1.00~3.00		
	10T3M0-AR						10.0	3.97	4.4	0.10~0.30	1.00~3.00		
	1204M0-AR					●	12.0	4.76	4.4	0.10~0.35	1.00~3.50		

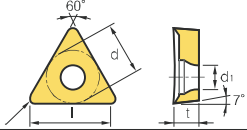
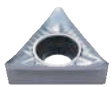
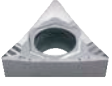
● : Stock item ○ : Under preparing for stock

SC ○ ○ ○  Square **90° Positive** Relief Angle : 7°

Workpiece	Steel	P					Machining types						 		
	Stainless steel	M					● Continuous cutting	● General cutting	✱ Interrupted cutting						
	Cast iron	K													
	Non-ferrous metal	N													
	Heat resistant alloy, Titanium alloy	S													
	Hardened steel	H													
Inserts	Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Available toolholders	
		KTW	KKW	KW135	KW12	H01	l	d	t	r	d ₁	f _n	a _p	Designation	Page
	SCGT 09T302-AK						9.3	9.525	3.97	0.2	4.4	0.02~0.30	0.10~4.00	SSBCR/L	B84
	09T304-AK					●	9.1	9.525	3.97	0.4	4.4	0.04~0.40	0.10~5.00	SSDCN	B85
	09T308-AK					●	8.7	9.525	3.97	0.8	4.4	0.03~0.40	0.10~5.00	SSKCR/L	B103
	120404-AK					●	12.3	12.7	4.76	0.4	5.5	0.03~0.50	0.10~5.00	SSSCR/L	
	120408-AK					●	11.9	12.7	4.76	0.8	5.5	0.04~0.60	0.15~5.50		
	120416-AK						11.1	12.7	4.76	1.6	5.5				
	SCGT 09T302-AR						9.3	9.525	3.97	0.2	4.4	0.03~0.40	0.50~5.00	SSBCR/L	B84
	09T304-AR					●	9.1	9.525	3.97	0.4	4.4	0.04~0.50	0.50~6.00	SSDCN	B85
	09T308-AR					●	8.7	9.525	3.97	0.8	4.4	0.04~0.50	0.50~6.50	SSKCR/L	B103
	120404-AR					●	12.3	12.7	4.76	0.4	4.4	0.05~0.60	0.50~6.50	SSSCR/L	
	120408-AR					●	11.9	12.7	4.76	0.8	5.5	0.05~0.60	0.50~7.00		
	120416-AR						11.1	12.7	4.76	1.6	5.5				

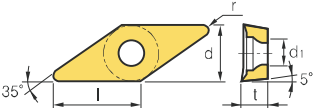


● : Stock item ○ : Under preparing for stock

TC Triangular **60° Positive** Relief Angle : 7°


Workpiece	Steel	P													Machining types ● Continuous cutting ● General cutting ✱ Interrupted cutting	
	Stainless steel	M														
Workpiece	Cast iron	K														
	Non-ferrous metal	N														
	Heat resistant alloy, Titanium alloy	S														
	Hardened steel	H														
Inserts	Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Available toolholders		
		KTW	KKW	KW135	KW12	H01	l	d	t	r	d1	fn	ap	Designation		
	TCGT AK 090202-AK 090204-AK 110202-AK 110204-AK 110208-AK 16T302-AK 16T304-AK 16T308-AK 16T312-AK 16T316-AK 16T325-AK						9,1	5,56	2,38	0,2	2,5	0,01~0,12	0,05~3,00	STACR/L		
								8,6	5,56	2,38	0,4	2,5	0,02~0,15	0,10~4,00	STFCR/L	
								10,5	6,35	2,38	0,2	2,8	0,02~0,20	0,05~4,00	STGCR/L	
								10,0	6,35	2,38	0,4	2,8	0,03~0,30	0,10~4,00	STTCR/L	
								9,0	6,35	2,38	0,8	2,8	0,03~0,40	0,10~5,00		
								15,0	9,525	3,97	0,2	4,4	0,02~0,30	0,05~5,00		
								15,5	9,525	3,97	0,4	4,4	0,03~0,40	0,10~5,50		
								14,5	9,525	3,97	0,8	4,4	0,03~0,50	0,10~5,50		
								13,5	9,525	3,97	1,2	4,4	0,04~0,60	0,15~5,50		
								12,5	9,525	3,97	1,6	4,4	0,05~0,80	0,15~5,50		
						10,0	9,525	3,97	2,5	4,4	0,06~0,90	0,20~7,00				
	TCGT AR 090202-AR 090204-AR 110202-AR 110204-AR 110208-AR 16T302-AR 16T304-AR 16T308-AR 16T312-AR 16T316-AR 16T325-AR						9,1	5,56	2,38	0,2	2,5	0,02~0,18	0,30~3,00	STACR/L		
								8,6	5,56	2,38	0,4	2,5	0,02~0,25	0,30~5,00	STFCR/L	
								10,5	6,35	2,38	0,2	2,8	0,02~0,30	0,30~4,00	STGCR/L	
								10,0	6,35	2,38	0,4	2,8	0,03~0,40	0,30~5,00	STTCR/L	
								9,0	6,35	2,38	0,8	2,8	0,04~0,45	0,50~6,00		
								15,0	9,525	3,97	0,2	4,4	0,03~0,45	0,30~5,00		
								15,5	9,525	3,97	0,4	4,4	0,04~0,50	0,50~6,00		
								14,5	9,525	3,97	0,8	4,4	0,05~0,60	0,50~6,00		
								13,5	9,525	3,97	1,2	4,4	0,06~0,65	0,50~6,00		
								12,5	9,525	3,97	1,6	4,4	0,08~0,70	0,50~6,50		
						10,0	9,525	3,97	2,5	4,4	0,10~0,10	0,80~7,00				



● : Stock item ○ : Under preparing for stock

VB Rhombic **35° Positive** Relief Angle : 7°

Workpiece	Steel	P													Machining types ● Continuous cutting ● General cutting ✱ Interrupted cutting	
	Stainless steel	M														
Workpiece	Cast iron	K														
	Non-ferrous metal	N														
	Heat resistant alloy, Titanium alloy	S														
	Hardened steel	H														
Inserts	Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Available toolholders		
		KTW	KKW	KW135	KW12	H01	l	d	t	r	d1	fn	ap	Designation		
	VBGT AK 110302-AK 110304-AK 110308-AK 160402-AK 160404-AK 160408-AK 160412-AK						10,5	6,35	3,18	0,2	2,8	0,02~0,15	0,05~3,00	SVABR/L		
								10,0	6,35	3,18	0,4	2,8	0,02~0,15	0,10~4,00	SVJBR/L	
								9,0	6,35	3,18	0,8	2,8	0,03~0,18	0,10~5,00	SVVBN	
								16,1	9,525	4,76	0,2	4,4	0,03~0,30	0,05~4,00	SVQBR/L	
								15,6	9,525	4,76	0,4	4,4	0,03~0,40	0,10~5,00	SVUBR/L	
								14,6	9,525	4,76	0,8	4,4	0,03~0,50	0,10~5,00		
	VBGT AR 110302-AR 110304-AR 110308-AR 160402-AR 160404-AR 160408-AR 160412-AR						10,5	6,35	3,18	0,2	2,8	0,02~0,35	0,30~3,00	SVABR/L		
								10,0	6,35	3,18	0,4	2,8	0,03~0,45	0,30~4,00	SVJBR/L	
								9,0	6,35	3,18	0,8	2,8	0,03~0,50	0,50~6,00	SVVBN	
								16,1	9,525	4,76	0,2	4,4	0,04~0,45	0,30~5,00	SVQBR/L	
								15,6	9,525	4,76	0,4	4,4	0,04~0,50	0,50~6,00	SVUBR/L	
								14,6	9,525	4,76	0,8	4,4	0,05~0,60	0,50~6,00		
						13,6	9,525	4,76	1,2	4,4	0,05~0,70	0,50~6,50				

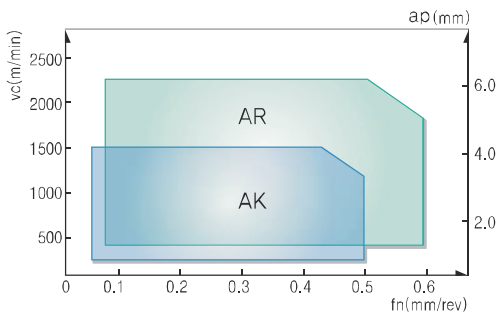
● : Stock item ○ : Under preparing for stock

VC ○ ○  Rhombic **35° Positive** Relief Angle : 7°

Workpiece	Steel	P					Machining types						Cutting Condition		Available toolholders	
	Stainless steel	M					● Continuous cutting	● General cutting	⊛ Interrupted cutting							
Inserts	Cast iron	K														
	Non-ferrous metal	N			●	●										
	Heat resistant alloy, Titanium alloy	S														
	Hardened steel	H														
Designation	Coated			Uncoated		Dimensions (mm)					Cutting Condition		Designation			
	KTW	KKW	KW135	KW12	H01	l	d	t	r	d ₁	f _n	a _p				
	VC GT 110301-AK			●	●	10.2	6.35	3.18	0.1	2.8	0.02~0.15	0.05~3.00	SVJCR/L			
	110302-AK			●	●	10.5	6.35	3.18	0.2	2.8	0.02~0.20	0.05~3.00	SVVCN			
	110304-AK			●	●	10.0	6.35	3.18	0.4	2.8	0.02~0.25	0.10~4.00	SVQCR/L			
	110308-AK			●	●	9.0	6.35	3.18	0.8	2.8	0.03~0.30	0.10~5.00	SVUCR/L			
	130302-AK			●	●	10.5	7.94	3.18	0.2	3.4	0.02~0.35	0.10~5.00				
	130304-AK			●	●	10.0	7.94	3.18	0.4	3.4	0.03~0.35	0.10~5.00				
	130308-AK			●	●	9.0	7.94	3.18	0.8	3.4	0.04~0.40	0.10~5.00				
	160402-AK			●	●	16.1	9.525	4.76	0.2	4.4	0.02~0.30	0.05~5.00				
	160404-AK			●	●	15.6	9.525	4.76	0.4	4.4	0.03~0.40	0.10~5.00				
	160408-AK			●	●	14.0	9.525	4.76	0.8	4.4	0.03~0.50	0.10~5.00				
	160412-AK			●	●	13.6	9.525	4.76	1.2	4.4	0.03~0.50	0.10~5.00				
	220516-AK					18.0	12.7	5.56	1.6	5.6	0.03~0.60	0.10~7.00				
	220525-AK					15.6	12.7	5.56	2.5	5.6	0.05~0.70	0.10~7.00				
220530-AK			●	●	14.3	12.7	5.56	3.0	5.6	0.08~1.00	0.10~7.00					
	VC GT 110301-AR			●	●	10.2	6.35	3.18	0.1	2.8	0.02~0.20	0.10~3.00	SVJCR/L			
	110302-AR			●	●	10.5	6.35	3.18	0.2	2.8	0.02~0.25	0.30~3.00	SVVCN			
	110304-AR			●	●	10.0	6.35	3.18	0.4	2.8	0.03~0.35	0.30~4.00	SVQCR/L			
	110308-AR			●	●	9.0	6.35	3.18	0.8	2.8	0.04~0.45	0.50~6.00	SVUCR/L			
	130302-AR			●	●	10.5	7.94	3.18	0.2	3.4	0.02~0.40	0.50~3.00				
	130304-AR			●	●	10.0	7.94	3.18	0.4	3.4	0.03~0.45	0.50~4.00				
	130308-AR			●	●	9.0	7.94	3.18	0.8	3.4	0.04~0.50	0.50~5.00				
	160402-AR			●	●	16.1	9.525	4.76	0.2	4.4	0.03~0.40	0.30~5.00				
	160404-AR			●	●	15.6	9.525	4.76	0.4	4.4	0.04~0.50	0.50~6.00				
	160408-AR			●	●	14.6	9.525	4.76	0.8	4.4	0.05~0.60	0.50~6.00				
	160412-AR			●	●	13.6	9.525	4.76	1.2	4.4	0.06~0.65	0.50~6.50				
	220516-AR					18.0	12.7	5.56	1.6	5.6	0.10~0.65	0.80~6.50				
	220525-AR			●	●	15.6	12.7	5.56	2.5	5.6	0.10~0.70	0.80~7.00				
220530-AR			●	●	14.3	12.7	5.56	3.0	5.6	0.12~0.75	1.00~7.00					

● : Stock item ○ : Under preparing for stock

AK and AR chip breaker specially developed for aluminum



	Recommendation range	Grades
AK	ap=0.1~5.0mm fn=0.03~0.5mm/rev	H01(Uncoated cemented carbides K10~K20) KTW (Diamond coating)
AR	ap=0.5~6.0mm fn=0.05~0.6mm/rev	H01(Uncoated cemented carbides K10~K20) KTW (Diamond coating)

Features of H01

- ▶ Useful for aluminum and alloyed steel machining
- ▶ Buffed on top face reduced built-up edge
- ▶ 3-dimensional design reduced cutting load and shows good performance at high feed and speed machining

Workpiece	Hardness(HB)	kc(Mpa)	vc(m/min)	fn(mm/rev)
Aluminum alloy(forged)	before heat treatment	50 ~ 70	500 ~ 600	0.1 ~ 0.6
	after heat treatment	90 ~ 110	700 ~ 900	0.1 ~ 0.5
Aluminum alloy (cast)	before heat treatment	70 ~ 80	700 ~ 800	0.1 ~ 0.6
	after heat treatment	80 ~ 100	800 ~ 950	0.1 ~ 0.4
Copper alloy	-	90 ~ 110	700	0.1 ~ 0.5
Non-ferrous metal, etc	-	100	1700	0.1 ~ 0.6