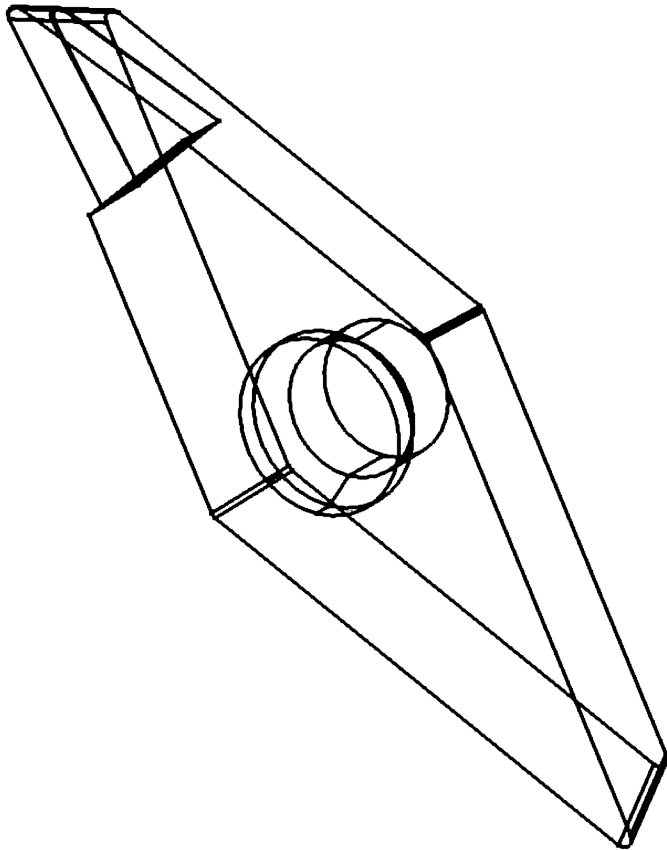
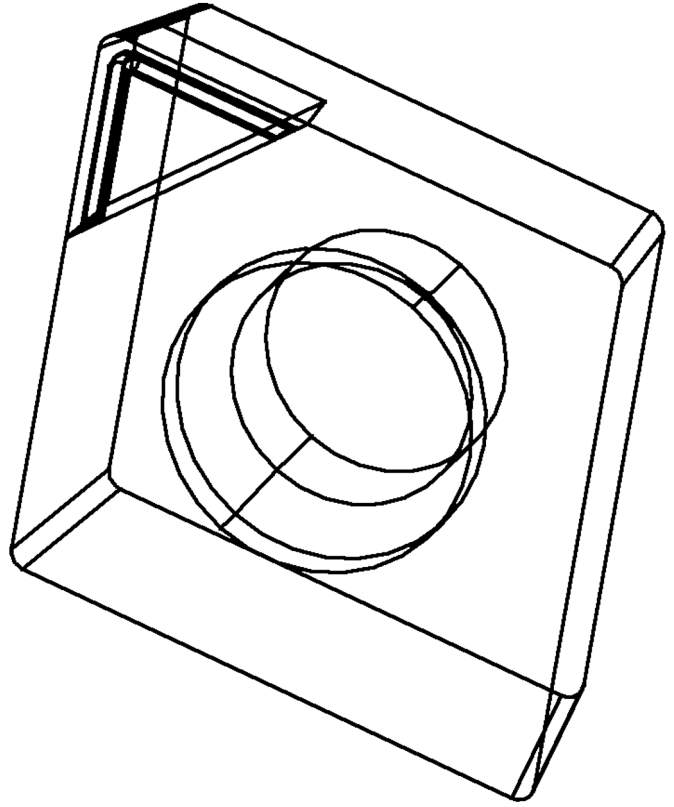
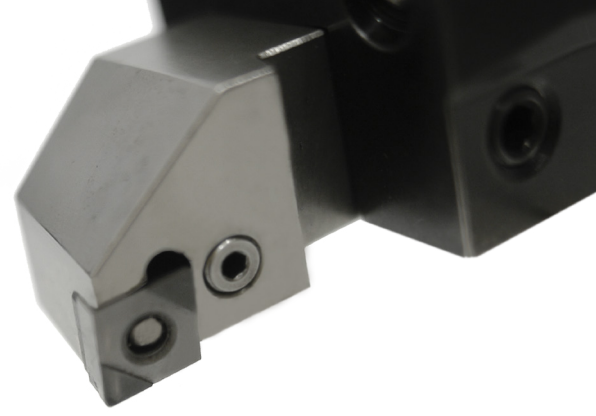




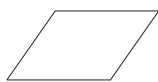
PCD ISO INSERTS



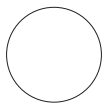
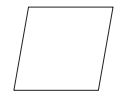


IT.TE.DI. PCD INSERTS

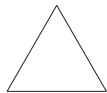
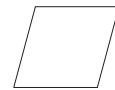
REFERENCE TABLE — 03 — PRODUCT RANGE
04



TYPE **D** INSERTS — 06 — TYPE **C** INSERTS
11



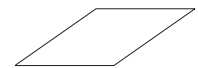
TYPE **R** INSERTS — 14 — TYPE **E** INSERTS
16



TYPE **T** INSERTS — 18 — TYPE **S** INSERTS
22



TYPE **W** INSERTS — 29 — TYPE **V** INSERTS
32



33 — RECOMMENDED
PARAMETERS FOR PCD

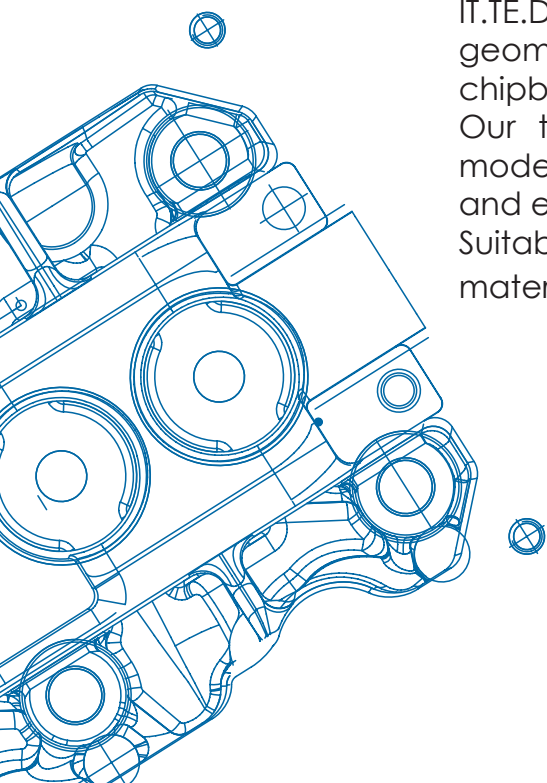


Founded in 1976, IT.TE.DI. is a leading Italian company manufacturing tools with PCD and CBN cutting edges and with guiding pads.

Thanks to the vast experience gained over the years, our solutions, on top of being a guarantee of quality, are the result of the most modern design methods and the most accurate controls.

Productivity, reliability and quality are the values that we commit to provide every day to our customers.

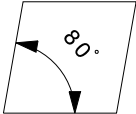

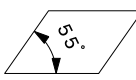

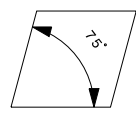

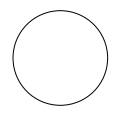

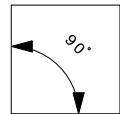

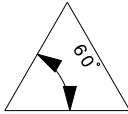

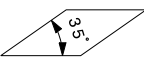

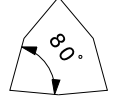

Manufacturing accuracy and reliability have enabled IT.TE.DI. to become a leader in the domestic and international markets: from automotive to power sources to aerospace, IT.TE.DI. has proved to be a state-of-the-art solution maker.



IT.TE.DI. products range includes PCD inserts, available in all geometries, with standard or low-cost cutting edges, with chipbreaker or wipers.

Our thorough quality inspection procedures, combined with modern quality processes, ensure the best combination of quality and efficiency.

Suitable for a wide range of applications and different types of materials they can be used from boring to turning to milling.

		DESIGNATION	TYPE / FINISH	PAGE
	 C	CCGT	R/L	6
		CCGW	R/L	6
		CCMT	-	7
		CCMW	-/WR/WL/FI/RO/E / EWR/EWL	7-8
		CNMA	-/E/EWR/EWL	9
		CPGT	R/L	9
		CPGW	R/L	10
		CPMT	-	10
		CPMW	-	10
	 D	DCMT	-	11
		DCMW	-/FI/RO/E /EWR/EWL	11-12
		DNMA	-/E/F	12-13
		DPMW	-	13
	 E	ECMT	-	14
		ECMW	-	14
		EPMT	-	14
		EPMW	-	15
	 R	RBMN	-	16
		RCMN	-	16
		RCMW	-	16
		RNMN	-	17
		RPMN	-	17
	 S	SCGW	R	18
		SCMW	-/E	18
		SNMA	-/E	19
		SNMN	-	19
		SNUN	-/E	19
		SOMT	-/R	19-20
		SPUN	-/E	20-21
		SPMW	-	21
	 T	TBMN	H	22
		TCGT	R	22
		TCMN	H	22
		TCMT	-	23
		TCMW	-/FI/RO/E	23-25
		TNMA	-/E	25-26
		TNUN	-	26
		TPMT	-	26
		TPMW	-	27
TPUN	-/E	27-28		
	 V	VBMT	-	29
		VBMW	-/E	29
		VCMT	-	30
		VCMW	-/FI/RO/E	30-31
		VNMA	-/E	31
	 W	WNMA	-	32

GEOMETRY			
A		B	
D		E	
L		M	
S		T	
W			

SHAPE	
A	
N	
T	
W	
R	





THICKNESS	
01	s=1,59
T1	s=1,97
02	s=2,38
03	s=3,18
T3	s=3,97
04	s=4,76
05	s=5,56
06	s=6,35
07	s=7,94
09	s=9,52


RADIUS	
00	r=0,0
01	r=0,1
03	r=0,3
02	r=0,2
04	r=0,4
08	r=0,8
10	r=1,0
12	r=1,2

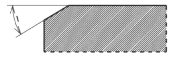
C C M T 06 02

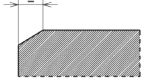
CLEARENCE ANGLE	
N	
B	
C	
P	
O	SPECIFIC DESCRIPTION

TOLERANCE CLASS					
CATEGORY	INSCRIBED CIRCLE	d	m	s	r
H		± 0,013	± 0,013	± 0,025	± 0,02
G		± 0,025	± 0,025	± 0,130	± 0,03
K	3,970	± 0,050	± 0,013	± 0,025	± 0,03
	5,560	± 0,050			
	6,350				
	9,525				
	12,700				
	15,875				
19,050	± 0,100				
M	3,970	± 0,050	± 0,050	± 0,130	± 0,05
	5,560				
	6,350				
	9,525				
	12,700				
	15,875				
19,050	± 0,100				
U	3,970	± 0,080	± 0,080	± 0,130	± 0,05
	5,560				
	6,350				
	9,525				
	12,700				
	15,875				
19,050	± 0,180				









INSERT TYPE	
-	STANDARD 
R	RIGHT 
L	LEFT 
E	ECO 
D	2 EDGES
F	2 ECO EDGES
H	FULL TOP
S	SOLID

FINISH	
--	STANDARD 
FI	CHIP BREAKER FINISHING 
RO	CHIP BREAKER ROUGHING 
WL	WIPER LH
WR	WIPER RH




CHAMFER ANGLE	
	
A	= 05°
B	= 10°
C	= 15°
D	= 20°
E	= 25°
F	= 30°

CHAMFER THICKNESS	
	
A	= 0,05mm
B	= 0,10 mm
C	= 0,15 mm
D	= 0,20 mm
E	= 0,25 mm
F	= 0,30 mm
G	= 0,40 mm

04 R FI PA F - A - A

INSERT DIMENSION								
								
D (mm)	R	S	T	C	D	V	W	E
3,970		03	06	03	04	07	02	
4,760			08	04				04
5,000	05...M0							
5,560	05...00	05	09	05	06		03	05
6,000	06...M0							
6,350	06...00	06	11	06	07	11	04	06
7,940		07	13	08	09	13	05	
7,970								08
8,000	08...M0							
9,000	09...M0							
9,525	09...00	09	16	09	11	16	06	09
10,000	10...M0							
12,000	12...M0							
12,700	12...00	12	22	12	15	22	08	
15,875	15...00	15	27	16	19		10	
16,000	16...M0							
19,050	19...M0	19	33	19				

MATERIAL *	
PCD GRAIN	
PB	MIXED
PA	MEDIUM
PJ	FINE

EDGE PREPARATION**	
F	
E	
T	

***MATERIAL PCD**

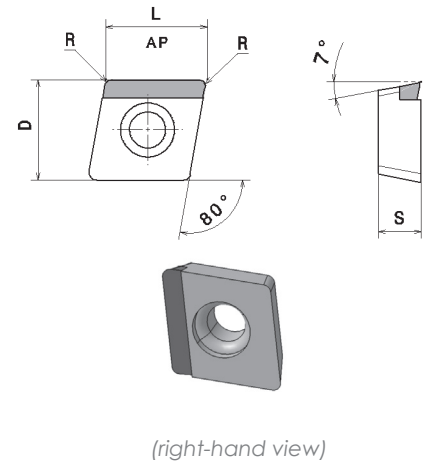
PJ: very fine grain used for special finishes;
PA: medium grain, good compromise used for most applications;
PB: coarse grain for high resistance to wear.

****PREPARATION**

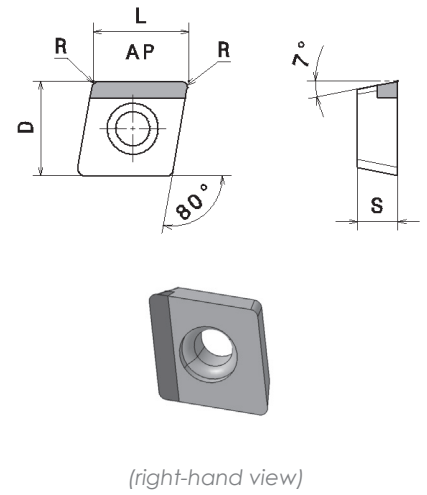
F- standard PCD preparation commonly used for aluminum and other non-ferrous materials.
E- brushed: protect the cutting edge from break-ages and chipping. Advantages are especially visible in case of finishes with tight tolerance and low feeds.
T- chamfer: increases the cutting edge stability but also the cutting forces.



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W		PJ	PA	PB
CCGT 060202R	6,4	2,38	0,2	6,35	7°		○	○	○
CCGT 060204R			0,4				○	○	○
CCGT 09T302R	9,7	3,97	0,2	9,52	10°		○	○	○
CCGT 09T304R			0,4				○	○	○
CCGT 120404R	12,9	4,76	0,4	12,7	10°		○	○	○
CCGT 120408R			0,8				○	○	○
CCGT 060202L	6,4	2,38	0,2	6,35	7°		○	○	○
CCGT 060204L			0,4				○	○	○
CCGT 09T302L	9,7	3,97	0,2	9,52	10°		○	○	○
CCGT 09T304L			0,4				○	○	○
CCGT 120404L	12,9	4,76	0,4	12,7			○	○	○
CCGT 120408L			0,8				○	○	○



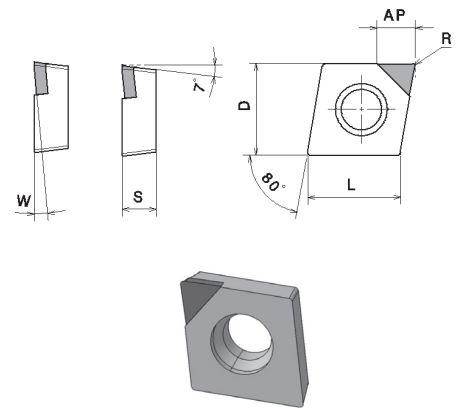
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D			PJ	PA	PB
CCGW 060202R	6,4	2,38	0,2	6,35			○	▲	○
CCGW 060204R			0,4			○	▲	○	
CCGW 09T302R	9,7	3,97	0,2	9,52			○	▲	○
CCGW 09T304R			0,4			○	▲	○	
CCGW 09T308R			0,8				○	▲	○
CCGW 120404R	12,9	4,76	0,4	12,7			○	▲	○
CCGW 120408R			0,8			○	▲	○	
CCGW 060202L	6,4	2,38	0,2	6,35			○	▲	○
CCGW 060204L			0,4			○	▲	○	
CCGW 09T302L	9,7	3,97	0,2	9,52			○	▲	○
CCGW 09T304L			0,4			○	▲	○	
CCGW 09T308L			0,8				○	▲	○
CCGW 120404L	12,9	4,76	0,4	12,7			○	▲	○
CCGW 120408L			0,8			○	▲	○	



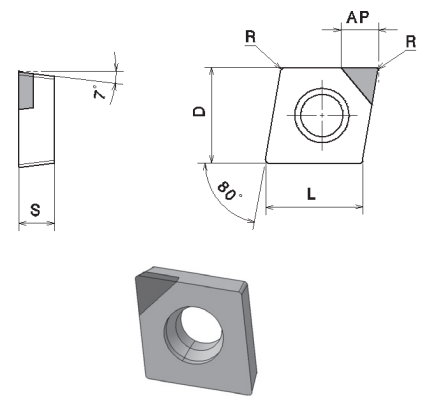
PCD INSERTS

- ▲ Available in stock
- Available upon request

ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
CCMT 060202	6,4	2,38	0,2	6,35	7°	3,0	○	▲	○
CCMT 060204			0,4				○	▲	○
CCMT 060208			0,8				○	○	○
CCMT 09T302	9,7	3,97	0,2	9,52	10°	4,0	○	○	○
CCMT 09T304			0,4				○	▲	○
CCMT 09T308			0,8				○	▲	○
CCMT 120402	12,9	4,76	0,2	12,7	10°	4,0	○	○	○
CCMT 120404			0,4				○	▲	○
CCMT 120408			0,8				○	▲	○
CCMT 120412			1,2				○	○	○



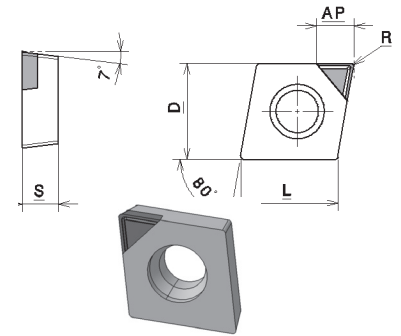
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
CCMW 060202	6,4	2,38	0,2	6,35		3,0	○	▲	○
CCMW 060204			0,4				○	▲	○
CCMW 060208			0,8				○	▲	○
CCMW 080304	8,1	3,18	0,4	7,94			○	○	○
CCMW 080308			0,8				○	○	○
CCMW 090304	9,7	3,97	0,4	9,52			○	○	○
CCMW 090308			0,8				○	○	○
CCMW 09T302			0,2				○	▲	○
CCMW 09T304			0,4				○	▲	○
CCMW 09T308			0,8				○	▲	○
CCMW 120402	12,9	4,76	0,2	12,7		4,0	○	○	○
CCMW 120404			0,4				○	▲	○
CCMW 120408			0,8				○	▲	○
CCMW 120412			1,2				○	○	○
CCMW 09T302WR	9,7	3,97	0,2	9,52			Available on customer's drawing		
CCMW 09T304WR			0,4						
CCMW 09T308WR			0,8						
CCMW 09T302WL			0,2						
CCMW 09T304WL			0,4						
CCMW 09T308WL			0,8						



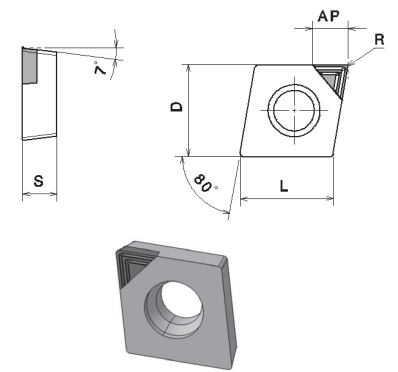
- ▲ Available in stock
- Available upon request



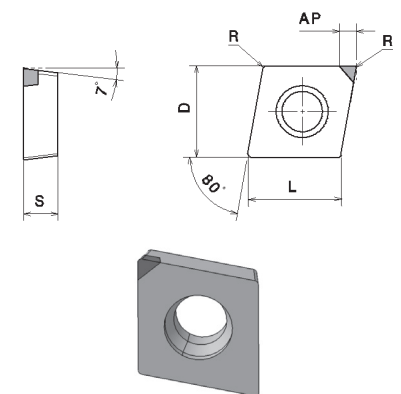
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
CCMW 060202FI	6,4	2,38	0,2	6,35		3,0	○	▲	○
CCMW 060204FI			0,4				○	▲	○
CCMW 060208FI			0,8				○	▲	○
CCMW 09T302FI	9,7	3,97	0,2	9,52		4,0	○	▲	○
CCMW 09T304FI			0,4				○	▲	○
CCMW 09T308FI			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
CCMW 060202RO	6,4	2,38	0,2	6,35		3,0	○	▲	○
CCMW 060204RO			0,4				○	▲	○
CCMW 060208RO			0,8				○	▲	○
CCMW 09T302RO	9,7	3,97	0,2	9,52		4,0	○	▲	○
CCMW 09T304RO			0,4				○	▲	○
CCMW 09T308RO			0,8				○	▲	○



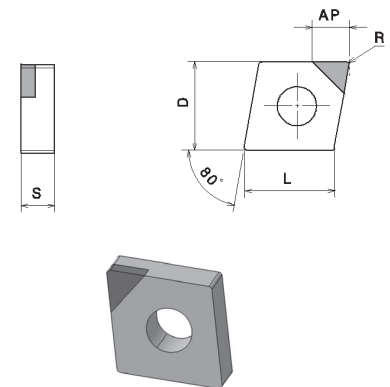
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
CCMW 060202E	6,4	2,38	0,2	6,35		2,5	○	▲	○
CCMW 060204E			0,4				○	▲	○
CCMW 09T302E			0,2				○	▲	○
CCMW 09T304E	9,7	3,97	0,4	9,52		2,5	○	▲	○
CCMW 09T308E			0,8				○	▲	○
CCMW 120402E	12,9	4,76	0,2	12,7		2,5	○	▲	○
CCMW 120404E			0,4				○	▲	○
CCMW 120408E			0,8				○	▲	○
CCMW 060204EWR	6,4	2,38	0,4	6,35		2,5	Available on customer's drawing		
CCMW 09T304EWR	9,7	3,97	0,4	9,52					
CCMW 09T308EWR			0,8						
CCMW 060204EWL	6,4	2,38	0,4	6,35					
CCMW 09T304EWL	9,7	3,97	0,4	9,52					
CCMW 09T308EWL			0,8						



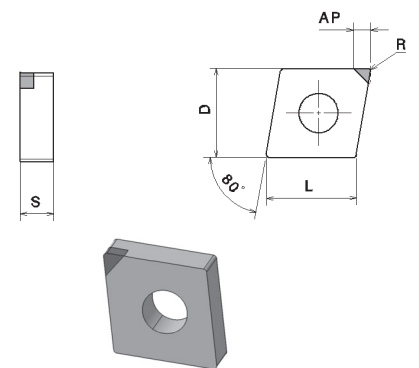
PCD INSERTS

- ▲ Available in stock
- Available upon request

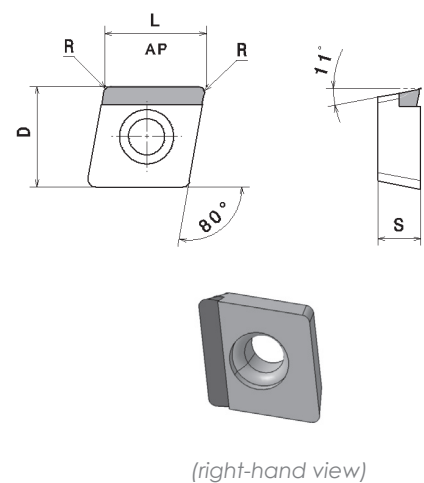
ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D	AP	PJ	PA	PB
CNMA 120401	12,9	4,76	0,1	12,7	4,0	○	○	○
CNMA 120402			0,2			○	○	○
CNMA 120403			0,3			○	○	○
CNMA 120404			0,4			○	▲	○
CNMA 120406			0,6			○	○	○
CNMA 120408			0,8			○	▲	○
CNMA 120410			1,0			○	○	○
CNMA 120412			1,2			○	○	○
CNMA 120416			1,6			○	○	○



ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D	AP	PJ	PA	PB
CNMA 120402E	12,9	4,76	0,2	12,7	2,5	○	○	○
CNMA 120404E			0,4			○	○	○
CNMA 120408E			0,8			○	○	○
CNMA 120412E			1,2			○	○	○
CNMA 120404EWR	12,9	4,76	0,4	12,7	2,5	Available on customer's drawing		
CNMA 120408EWR			0,8					
CNMA 120404EWL			0,4					
CNMA 120408EWL			0,8					



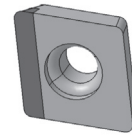
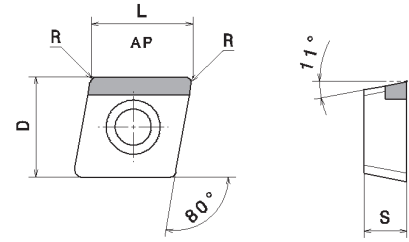
ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D	W	PJ	PA	PB
CPGT 060202R	6,4	2,38	0,2	6,35	7°	○	○	○
CPGT 060204R			0,4			○	○	○
CPGT 09T302R	9,7	3,97	0,2	9,52	10°	○	○	○
CPGT 09T304R			0,4			○	○	○
CPGT 120404R	12,9	4,76	0,4	12,7	10°	○	○	○
CPGT 120408R			0,8			○	○	○
CPGT 060202L	6,4	2,38	0,2	6,35	7°	○	○	○
CPGT 060204L			0,4			○	○	○
CPGT 09T302L	9,7	3,97	0,2	9,52	10°	○	○	○
CPGT 09T304L			0,4			○	○	○
CPGT 120404L	12,9	4,76	0,4	12,7	10°	○	○	○
CPGT 120408L			0,8			○	○	○



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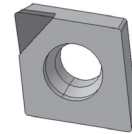
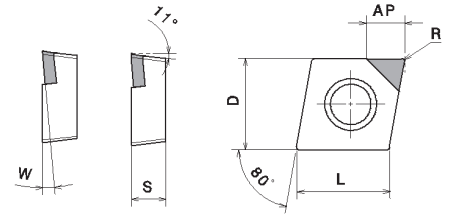


ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D		PJ	PA	PB
CPGW 060202R	6,4	2,38	0,2	6,35		○	○	○
CPGW 060204R			0,4					
CPGW 09T302R	9,7	3,97	0,2	9,52				
CPGW 09T304R			0,4					
CPGW 120404R	12,9	4,76	0,4	12,7				
CPGW 120408R			0,8					
CPGW 060202L	6,4	2,38	0,2	6,35				
CPGW 060204L			0,4					
CPGW 09T302L	9,7	3,97	0,2	9,52				
CPGW 09T304L			0,8					
CPGW 120404L	12,9	4,76	0,4	12,7				
CPGW 120408L			0,8					



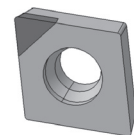
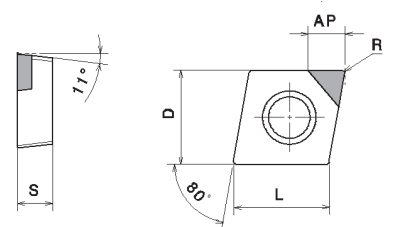
(right-hand view)

ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
CPMT 060202	6,4	2,38	0,2	6,35	7°	3,0	○	○	○
CPMT 060204			0,4						
CPMT 09T304	9,7	3,97	0,4	9,52	10°				
CPMT 09T308			0,8						
CPMT 120404	12,9	4,76	0,4	12,7					
CPMT 120408			0,8						



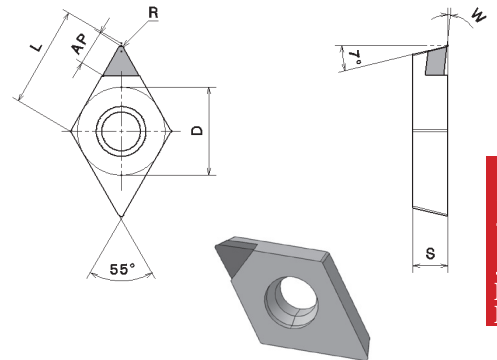
PCD INSERTS

ISO DESIGNATION	DIMENSIONS					PCD GRADE									
	L	S	R	D	AP	PJ	PA	PB							
CPMW 05T102	5,6	1,98	0,2	5,56	3,0	○	○	○							
CPMW 05T104			0,4												
CPMW 060202	6,4	2,38	0,2	6,35											
CPMW 060204			0,4						▲						
CPMW 090304	9,7	3,18	0,4	9,52					4,0	○	○	○			
CPMW 090308			0,8												
CPMW 09T304		3,97	0,4										▲		
CPMW 09T308			0,8												
CPMW 120404	12,9	4,76	0,4	12,70									○	○	○
CPMW 120408			0,8												

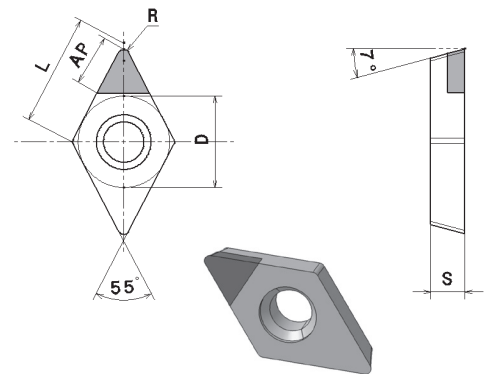


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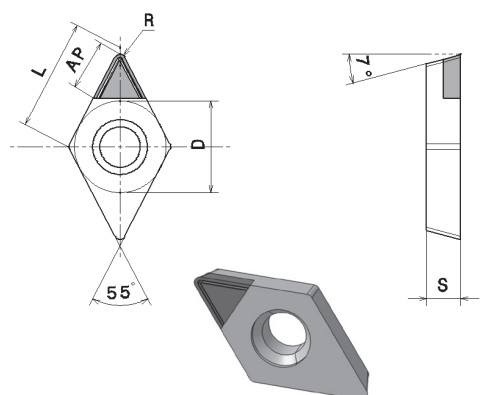
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
DCMT 070202	7,75	2,38	0,2	6,35	7°	3,0	○	▲	○
DCMT 070204			0,4				○	▲	○
DCMT 070208			0,8				○	▲	○
DCMT 11T302	11,60	3,97	0,2	9,52	10°	4,0	○	▲	○
DCMT 11T304			0,4				○	▲	○
DCMT 11T308			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
DCMW 070202	7,75	2,38	0,2	6,35		3,0	○	▲	○
DCMW 070204			0,4				○	▲	○
DCMW 070208			0,8				○	▲	○
DCMW 11T302	11,6	3,97	0,2	9,52		4,0	○	▲	○
DCMW 11T304			0,4				○	▲	○
DCMW 11T308			0,8				○	▲	○
DCMW 150404	15,5	4,76	0,4	12,7			○	○	○
DCMW 150408			0,8				○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
DCMW 070202FI	7,75	2,38	0,2	6,35		3,0	○	▲	○
DCMW 070204FI			0,4				○	▲	○
DCMW 070208FI			0,8				○	▲	○
DCMW 11T302FI	11,60	3,97	0,2	9,52		4,0	○	▲	○
DCMW 11T304FI			0,4				○	▲	○
DCMW 11T308FI			0,8				○	▲	○

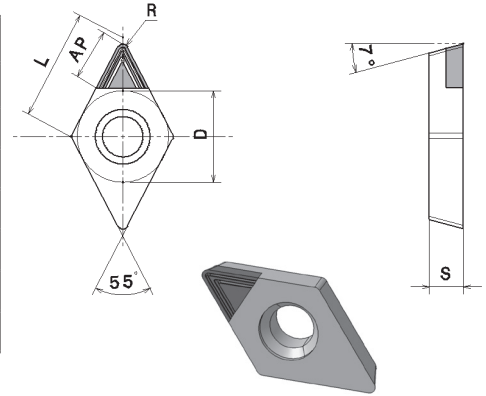


PCD INSERTS

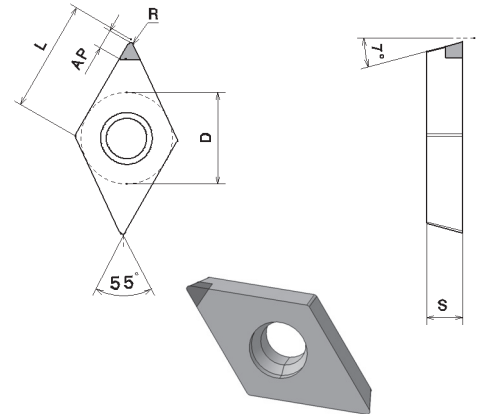
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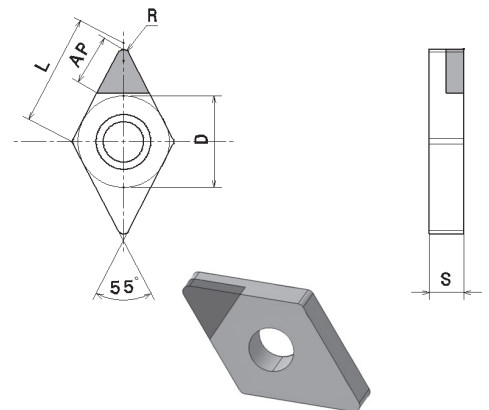
ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
DCMW 070202RO	7,75	2,38	0,2	6,35		3,0	○	▲	○
DCMW 070204RO			0,4				○	▲	○
DCMW 070208RO			0,8				○	▲	○
DCMW 11T302RO	11,60	3,97	0,2	9,52		4,0	○	▲	○
DCMW 11T304RO			0,4				○	▲	○
DCMW 11T308RO			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
DCMW 070202E	7,15	2,38	0,2	6,35			○	○	○
DCMW 070204E			0,4				○	○	○
DCMW 11T302E	11,6	3,97	0,2	9,52		2,5	○	▲	○
DCMW 11T304E			0,4				○	▲	○
DCMW 11T308E			0,8				○	▲	○
DCMW 11T304EWR	11,6	3,97	0,4	9,52			○	○	○
DCMW 11T308EWR			0,8				○	○	○
DCMW 11T304EWL			0,4				○	○	○
DCMW 11T308EWL			0,8				○	○	○

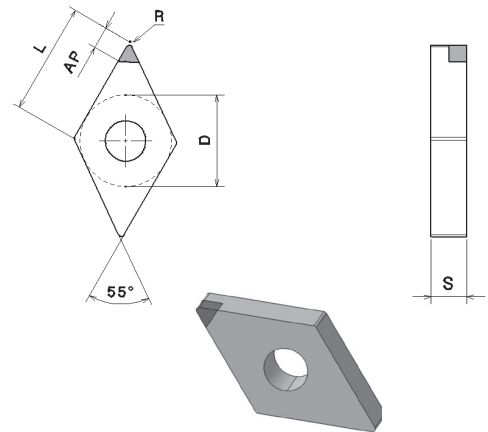


ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
DNMA 150402	15,5	4,76	0,2	12,7		4,0	○	○	○
DNMA 150404			0,4				○	○	○
DNMA 150408			0,8				○	○	○
DNMA 150412			1,2				○	○	○
DNMA 150602	15,5	6,35	0,2	12,7		4,0	○	○	○
DNMA 150604			0,4				○	▲	○
DNMA 150608			0,8				○	▲	○
DNMA 150612			1,2				○	○	○

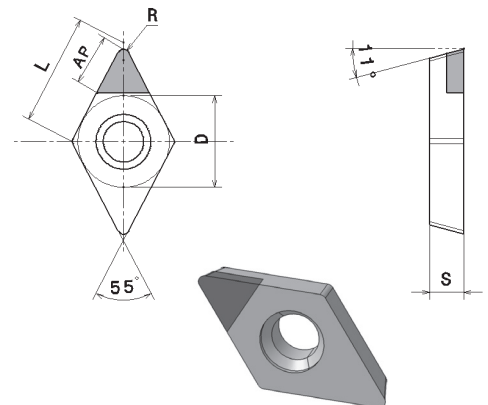


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ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
DNMA 150402E	15,5	4,76	0,2	12,7		2,5	○	○	○
DNMA 150404E			0,4				○	○	○
DNMA 150408E			0,8				○	○	○
DNMA 150412E		6,35	1,2				○	○	○
DNMA 150602E			0,2				○	○	○
DNMA 150604E			0,4				○	○	○
DNMA 150608E			0,8				○	○	○
DNMA 150612E			1,2				○	○	○

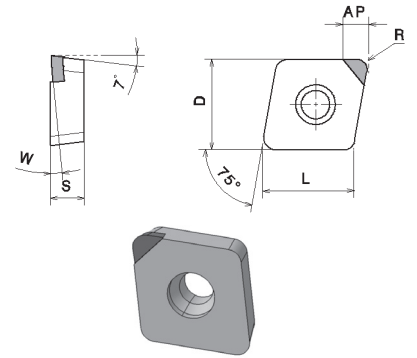


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
DPMW 070202	7,75	2,38	0,2	6,35		3,0	○	○	○
DPMW 070204			0,4				○	○	○
DPMW 070208			0,8				○	○	○
DPMW 11T302	11,6	3,97	0,2	9,52		4,0	○	○	○
DPMW 11T304			0,4				○	○	○
DPMW 11T308			0,8				○	○	○

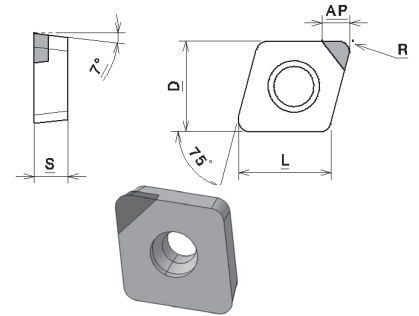


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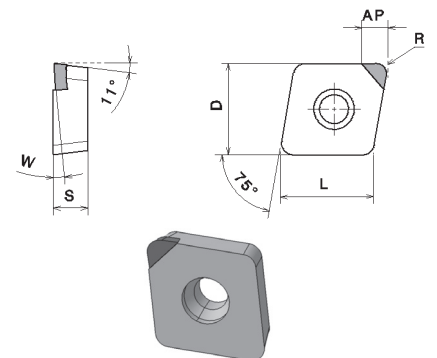
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
ECMT 09T304	9,8	3,97	0,4	9,52	10°	4,0	○	○	○
ECMT 09T308			0,8				○	○	○
ECMT 12T304	13,1		0,4	12,7			○	○	○
ECMT 12T308			0,8				○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
ECMW 09T304	9,8	3,97	0,4	9,52		4,0	○	○	○
ECMW 09T308			0,8				○	○	○
ECMW 12T304	13,1		0,4	12,7			○	○	○
ECMW 12T308			0,8				○	○	○

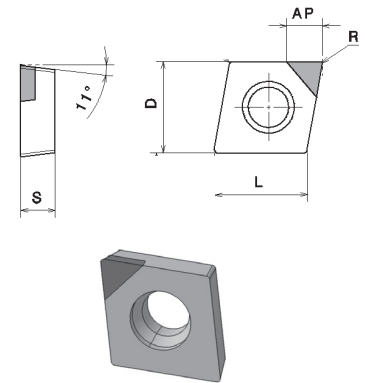


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
EPMT 080302	8,3	3,18	0,2	7,94	10°	4,0	○	○	○
EPMT 080304			0,4				○	○	○
EPMT 080308			0,8				○	○	○



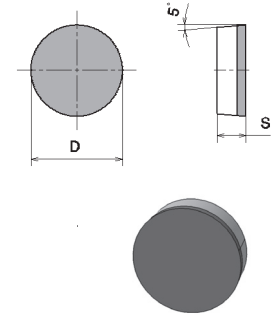
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ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
EPMW 040202	4,8	2,38	0,2	4,76		2,5	○	○	○
EPMW 040204			0,4				○	○	○
EPMW 060202	6,5	2,38	0,2	6,35		3,0	○	○	○
EPMW 060204			0,4				○	○	○
EPMW 080302	8,3	3,18	0,2	7,94		4,0	○	○	○
EPMW 080304			0,4				○	○	○
EPMW 080308			0,8				○	○	○

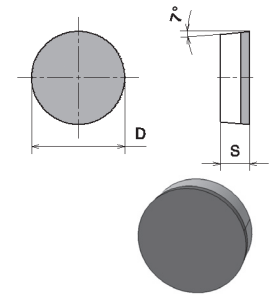


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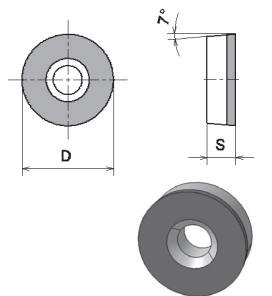
ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	S		D			PJ	PA	PB
RBMN 060200H	2,38		6,35			○	○	○
RBMN 070200H	2,38		7,94			○	○	○
RBMN 090300H	3,18		9,52			○	○	○
RBMN 120300H	3,18		12,7			○	○	○
RBMN 120400H	4,76		12,7			○	○	○



ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	S		D			PJ	PA	PB
RCMN 090300H	3,18		9,52			○	○	○
RCMN 120300H	3,18		12,7			○	○	○
RCMN 120400H	4,76		12,7			○	○	○

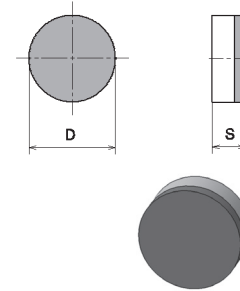


ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	S		D			PJ	PA	PB
RCMW 0602M0H	2,38		6,0			○	▲	○
RCMW 0803M0H	3,18		8,0			○	▲	○
RCMW 1003M0H	3,18		10,0			○	▲	○

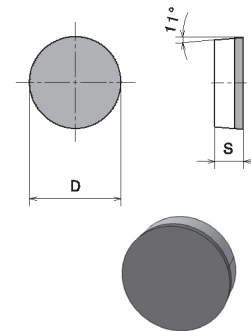


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ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	S	D				PJ	PA	PB
RNMN 0903M0H	3,18	9,00				○	○	○
RNMN 090300H	3,18	9,52				○	○	○
RNMN 1203M0H	3,18	12,0				○	○	○
RNMN 120300H	3,18	12,7				○	○	○
RNMN 1204M0H	4,76	12,0				○	○	○
RNMN 120400H	4,76	12,7				○	○	○

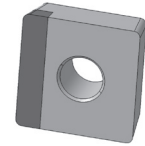
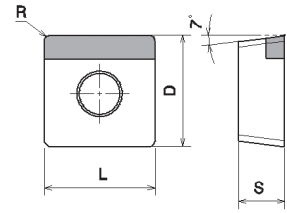


ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	S	D				PJ	PA	PB
RPMN 060200H	2,38	6,35				○	○	○
RPMN 070200H	2,38	7,94				○	○	○
RPMN 090300H	3,18	9,52				○	○	○
RPMN 120300H	3,18	12,7				○	○	○
RPMN 120400H	4,76	12,7				○	○	○

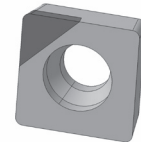
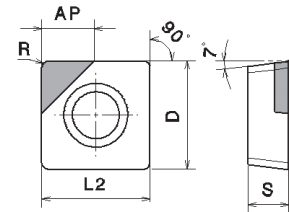


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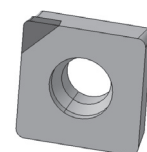
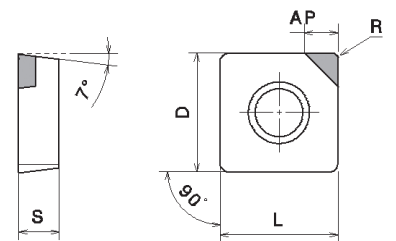
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D			PJ	PA	PB
SCGW 060202R	6,35	2,38	0,2	6,35			○	○	○
SCGW 060204R			0,4				○	○	○
SCGW 09T302R	9,52	3,97	0,2	9,52			○	▲	○
SCGW 09T304R			0,4				○	○	○
SCGW 09T308R			0,8				○	○	○
SCGW 120404R	12,7	4,76	0,4	12,7			○	○	○
SCGW 120408R			0,8				○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
SCMW 060202	6,35	2,38	0,2	6,35		3,0	○	○	○	
SCMW 060204			0,4					○	○	○
SCMW 090302	9,52	3,18	0,2	9,52		4,0	○	○	○	
SCMW 090304			0,4					○	○	○
SCMW 090308			0,8					○	○	○
SCMW 09T302	9,52	3,97	0,2	9,52		4,0	○	▲	○	
SCMW 09T304			0,4					○	▲	○
SCMW 09T308			0,8					○	▲	○
SCMW 120404	12,7	4,76	0,4	12,7		4,0	○	▲	○	
SCMW 120408			0,8					○	▲	○
SCMW 120412	12,7	4,76	1,2	12,7		4,0	○	▲	○	

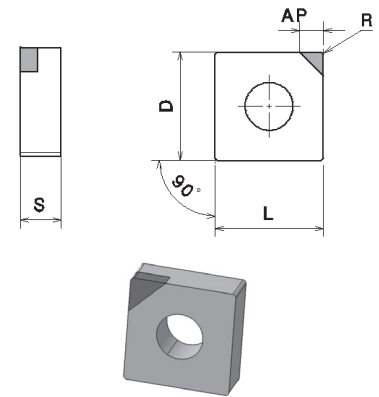


ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
SCMW 09T302E	9,52	3,97	0,2	9,52		2,5	○	▲	○	
SCMW 09T304E			0,4					○	▲	○
SCMW 09T308E			0,8					○	▲	○
SCMW 120404E	12,7	4,76	0,4	12,7		2,5	○	▲	○	
SCMW 120408E			0,8					○	▲	○
SCMW 120412E	12,7	4,76	1,2	12,7		2,5	○	▲	○	

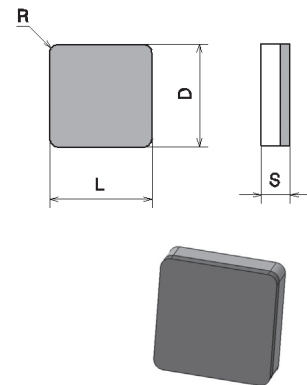


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ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
SNMA 090304	9,52	3,18	0,4	9,52		4,0	○	○	○
SNMA 090308			0,8				○	○	○
SNMA 120404	12,7	4,76	0,4	12,7		2,5	○	○	○
SNMA 120408			0,8				○	○	○
SNMA 120404E			0,4				○	○	○
SNMA 120408E			0,8				○	○	○

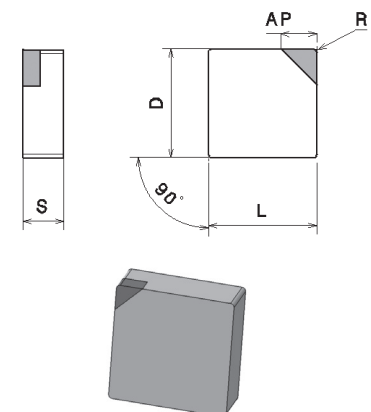


ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D		PJ	PA	PB
SNMN 090304H	9,52	3,18	0,4	9,52		○	○	○
SNMN 090308H			0,8			○	○	○
SNMN 090312H			1,2			○	○	○
SNMN 090316H			1,6			○	○	○
SNMN 120304H	12,7	3,18	0,4	12,7		○	○	○
SNMN 120308H			0,8			○	○	○
SNMN 120312H			1,2			○	○	○
SNMN 120316H			1,6			○	○	○
SNMN 120404H		4,76	0,4			○	○	○
SNMN 120408H			0,8			○	○	○
SNMN 120412H			1,2			○	○	○
SNMN 120416H			1,6			○	○	○



S
 SNMA
 SNMN
 SNUN

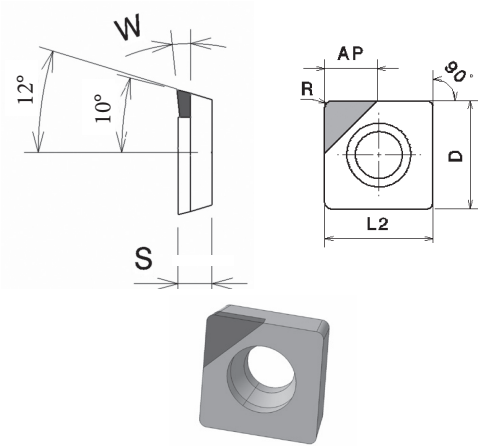
ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
SNUN 090304	9,52	3,18	0,4	9,52		4,0	○	○	○
SNUN 090308			0,8				○	○	○
SNUN 120304	12,7	3,18	0,4	12,7		2,5	○	○	○
SNUN 120308			0,8				○	○	○
SNUN 120404		4,76	0,4				○	○	○
SNUN 120408			0,8				○	○	○
SNUN 120404E			0,4				○	○	○
SNUN 120408E			0,8				○	○	○



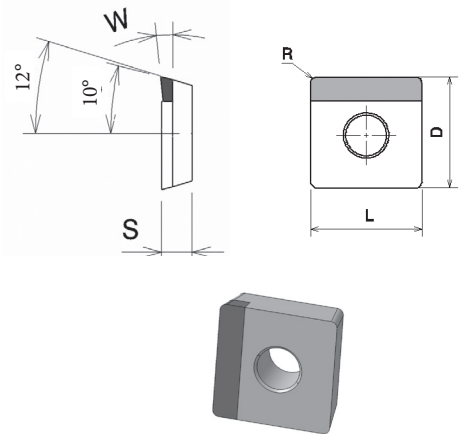
PCD INSERTS

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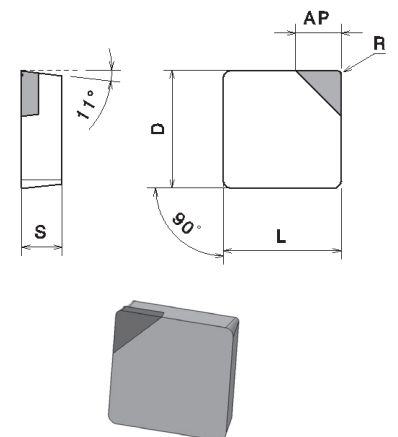
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
SOMT 060204	6,4	2,38	0,4	6,35	7°	4,0	○	○	○
SOMT 060210			1,0				○	○	○
SOMT 09T306	9,7	3,97	0,6	10°	○		○	○	
SOMT 100408	10,0	4,76	0,8		○		○	○	
SOMT 110408	11,6	4,76	0,8		○		○	○	
SOMT 120408	12,0	4,76	0,8		○		○	○	
SOMT 160512	16,5	5,56	1,2		16		○	○	○
						○	○	○	



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
SOMT 060204R	6,4	2,38	0,4	6,35	7°	4,0	○	○	○
SOMT 060210R			1,0				○	○	○
SOMT 09T306R	9,7	3,97	0,6	10°	○		○	○	
SOMT 100408R	10,0	4,76	0,8		○		○	○	
SOMT 110408R	11,6	4,76	0,8		○		○	○	
SOMT 120408R	12,0	4,76	0,8		○		○	○	
SOMT 160512R	16,5	5,56	1,2		16		○	○	○
						○	○	○	

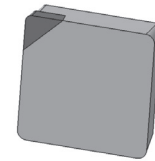
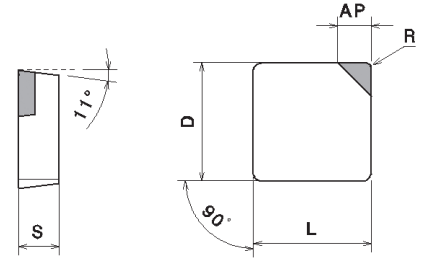


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
SPUN 050202	5,56	2,38	0,2	5,56	7,94	3,0	○	○	○
SPUN 050204			0,4				○	○	○
SPUN 070202	7,94		0,2	7,94			○	○	○
SPUN 070204			0,4				○	○	○
SPUN 090302	9,52	3,18	0,2	9,52	4,0	○	○	○	
SPUN 090304			0,4			○	○	○	
SPUN 120304	12,7		0,4	12,7		○	○	○	
			0,8			○	○	○	
SPUN 120308		0,8	○			○	○		
SPUN 120404		0,4	○			○	○		
SPUN 120408	0,8	○	○	○					

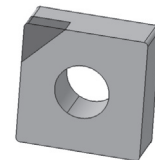
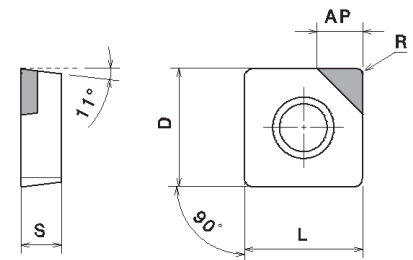


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ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
SPUN 120304E	12,7	3,18	0,4	12,7		2,5	○	○	○
SPUN 120308E			0,8				○	○	○
SPUN 120404E		4,76	0,4				○	○	○
SPUN 120408E			0,8				○	○	○

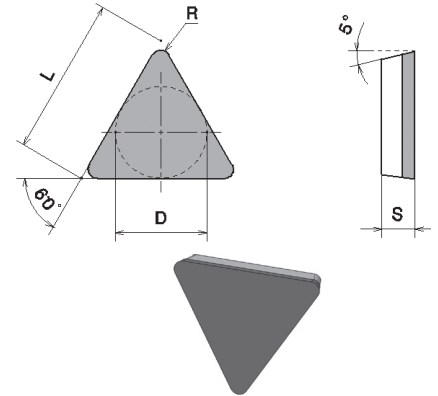


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
SPMW 070302	7,94		0,2	7,94		3,0	○	○	○
SPMW 070304			0,4				○	○	○
SPMW 090302	9,52	3,18	0,2	9,52		4,0	○	○	○
SPMW 090304			0,4				○	○	○
SPMW 090308		0,8	○				○	○	
SPMW 09T302		3,97	0,2				○	○	○
SPMW 09T304	0,4		○	○	○				
SPMW 09T308		0,8	○	○	○				
SPMW 120402	12,7	4,76	0,2	12,7			○	○	○
SPMW 120404			0,4				○	○	○
SPMW 120408			0,8				○	○	○

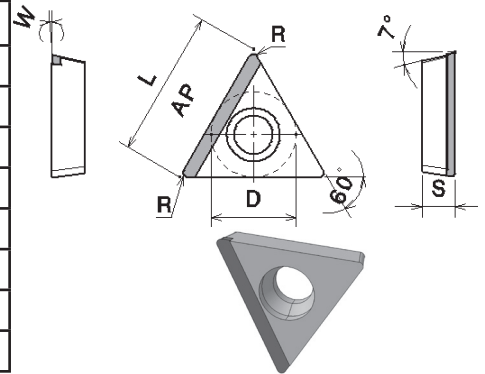


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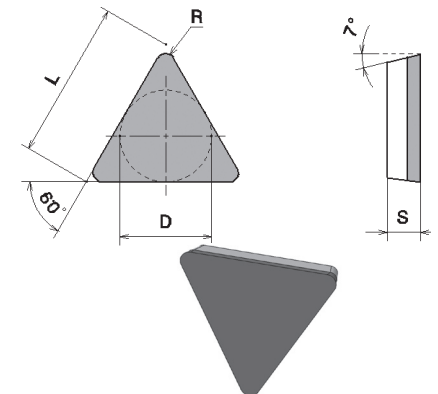
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D			PJ	PA	PB
TBMN 060101H	6,9	1,59	0,1	3,97			○	○	○
TBMN 060102H	6,9	1,59	0,2	3,97			○	○	○
TBMN 060104H	6,9	1,59	0,4	3,97			○	○	○
TBMN 060108H	6,9	1,59	0,8	3,97			○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D	W	AP	PJ	PA	PB	
TCGT 090202R	9,6	2,38	0,2	5,56	7°	9,34	○	○	○	
TCGT 090204R			0,4			9,04	○	○	○	
TCGT 110202R	11,0	2,38	0,2	6,35	7°	10,71	○	○	○	
TCGT 110204R			0,4			10,41	○	▲	○	
TCGT 110208R			0,8			9,83	○	○	○	
TCGT 16T302R	16,5	3,97	0,2	9,52	10°	16,20	○	○	○	
TCGT 16T304R			0,4			15,91	○	○	○	
TCGT 16T308R			0,8			15,33	○	○	○	



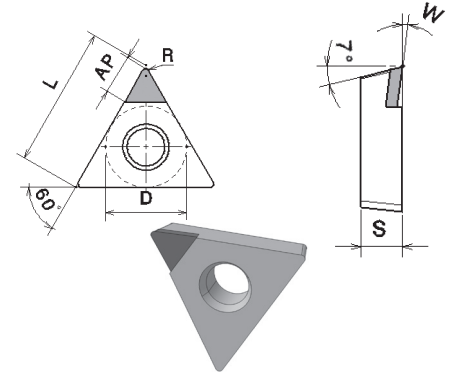
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D			PJ	PA	PB
TCMN 060102H	6,9	1,59	0,2	3,97			○	○	○
TCMN 060104H	6,9	1,59	0,4	3,97			○	○	○
TCMN 060108H	6,9	1,59	0,8	3,97			○	○	○



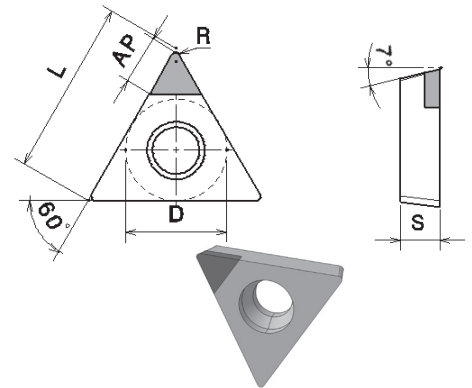
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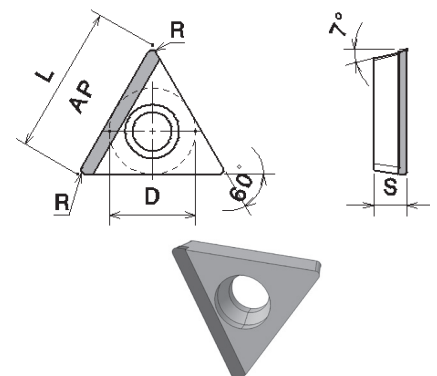
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
TCMT 090202	9,6	2,38	0,2	5,56	7°	3,0	○	○	○
TCMT 090204			0,4				○	○	○
TCMT 090208			0,8	○			○	○	
TCMT 110202	11,0	2,38	0,2	6,35	4,0	○	○	○	
TCMT 110204			0,4			○	▲	○	
TCMT 110208			0,8	○		▲	○		
TCMT 16T304	16,5	3,97	0,4	9,52	10°	4,0	○	▲	○
TCMT 16T308			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
TCMW 06T102	6,4	1,98	0,2	3,97		2	○	○	○
TCMW 06T104			0,4				○	○	○

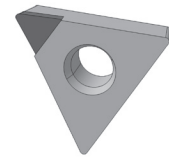
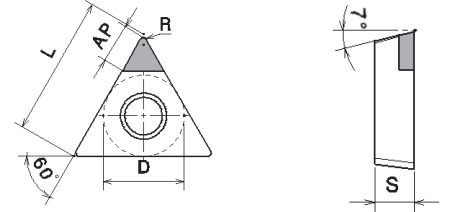


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
TCMW 090202R	9,6	2,38	0,2	5,56		9,34	○	▲	○
TCMW 090204R			0,4				○	▲	○
TCMW 110202R	11,0	2,38	0,2	6,35	10,71	10,71	○	▲	○
TCMW 110204R			0,4				○	▲	○
TCMW 110208R			0,8	○			▲	○	
TCMW 16T302R	16,5	3,97	0,2	9,52	16,20	15,91	○	▲	○
TCMW 16T304R			0,4				○	▲	○
TCMW 16T308R			0,8	○			▲	○	

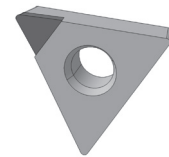
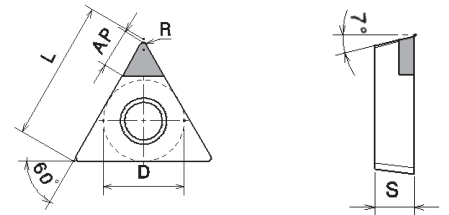


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ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TCMW 090202	9,6	2,38	0,2	5,56		3,0	○	▲	○
TCMW 090204			0,4				○	▲	○
TCMW 090208			0,8				○	▲	○
TCMW 110202	11,0	2,38	0,2	6,35		4,0	○	▲	○
TCMW 110204			0,4				○	▲	○
TCMW 110208			0,8				○	▲	○
TCMW 130304	13,7	3,18	0,4	7,94		4,0	○	○	○
TCMW 130308			0,8				○	○	○
TCMW 16T302	16,5	3,97	0,2	9,52		4,0	○	▲	○
TCMW 16T304			0,4				○	▲	○
TCMW 16T308			0,8				○	▲	○
TCMW 16T312			1,2				○	○	○

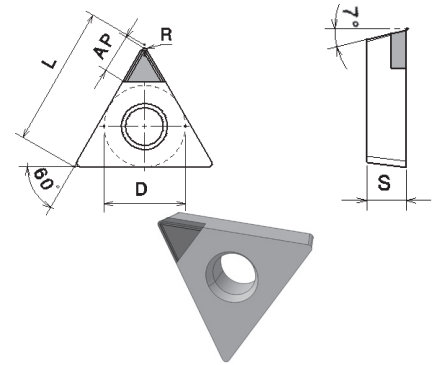


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TCMW 090202E	9,6	2,38	0,2	5,56		2,5	○	○	○
TCMW 090204E			0,4				○	○	○
TCMW 110202E	11,0	2,38	0,2	6,35		2,5	○	▲	○
TCMW 110204E			0,4				○	▲	○
TCMW 110208E	11,0	2,38	0,8	6,35		2,5	○	▲	○
TCMW 130304E	13,7	3,18	0,4	7,94		2,5	○	○	○
TCMW 130308E			0,8				○	○	○
TCMW 16T302E	16,5	3,97	0,2	9,52		2,5	○	▲	○
TCMW 16T304E			0,4				○	▲	○
TCMW 16T308E			0,8				○	▲	○
TCMW 16T312E			1,2				○	○	○

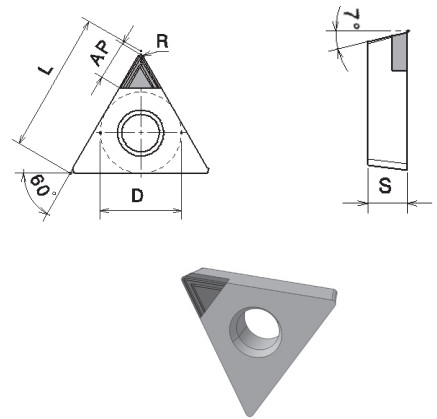


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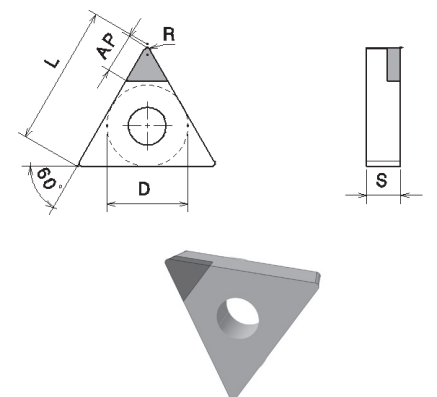
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TCMW 110202FI	11,0	2,38	0,2	6,35		4,0	○	▲	○
TCMW 110204FI			0,4				○	▲	○
TCMW 110208FI			0,8				○	▲	○
TCMW 16T304FI	16,5	3,97	0,4	9,52		4,0	○	▲	○
TCMW 16T308FI			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TCMW 110202RO	11,0	2,38	0,2	6,35		4,0	○	▲	○
TCMW 110204RO			0,4				○	▲	○
TCMW 110208RO			0,8				○	▲	○
TCMW 16T304RO	16,5	3,97	0,4	9,52		4,0	○	▲	○
TCMW 16T308RO			0,8				○	▲	○

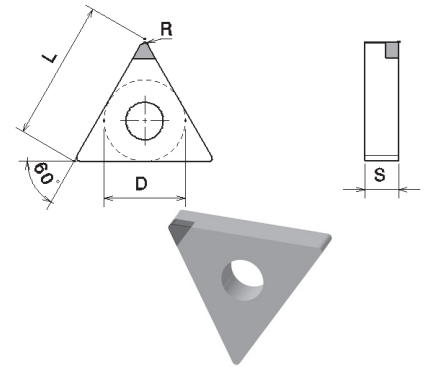


ISO DESIGNATION	DIMENSIONS						PCD GRADE				
	L	S	R	D		AP	PJ	PA	PB		
TNMA 110304	11,0	3,18	0,4	6,35		4,0	○	○	○		
TNMA 110308			0,8				○	○	○		
TNMA 160304	16,5		3,18	0,4	9,52		4,0	○	○	○	
TNMA 160308				0,8				○	○	○	
TNMA 160403		4,76	3,18	0,3	9,52		4,0	○	○	○	
TNMA 160404				0,4				○	○	○	
TNMA 160408			4,76	3,18	0,8	9,52		4,0	○	○	○
TNMA 160410					1,0				○	○	○
TNMA 160412	22,0	4,76	1,2	12,7		4,0	○	○	○		
TNMA 220404			0,4				○	○	○		
TNMA 220408	0,8	○	○	○							

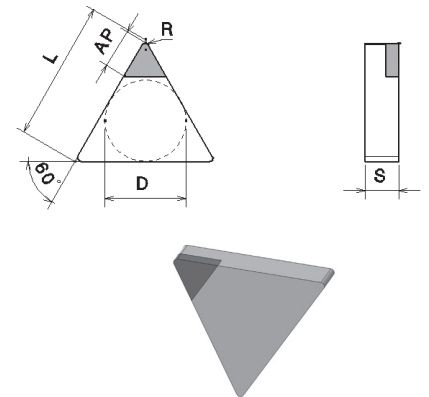


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ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
TNMA 16040E	16,5	4,76	0,4	9,52		2,5	○	○	○	
TNMA 160408E			0,8				○	○	○	

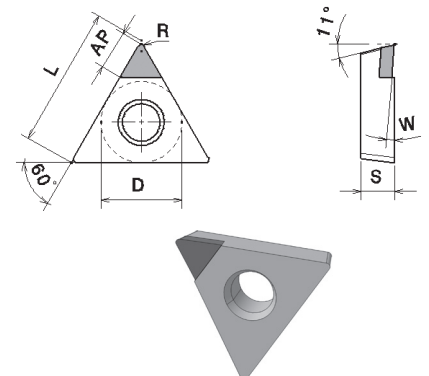


ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
TNUN 110304	11,0	3,18	0,4	6,35		4,0	○	○	○	
TNUN 110308			0,8				○	○	○	
TNUN 130304	13,7		0,4	7,94			○	○	○	
TNUN 130308			0,8				○	○	○	
TNUN 160304	16,5	0,4	9,52		4,0	○	○	○		
TNUN 160308		0,8				○	○	○		
TNUN 160404		4,76				0,4	○	○	○	
TNUN 160408						0,8	○	○	○	



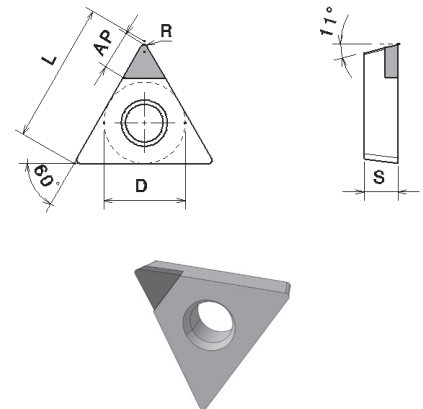
T
 TNMA
 TNUN
 TPMT

ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D	W	AP	PJ	PA	PB	
TPMT 110302	11,0	3,18	0,2	6,35		4,0	○	○	○	
TPMT 110304			0,4				○	▲	○	
TPMT 110308			0,8				○	▲	○	
TPMT 16T304	16,5	3,97	0,4	9,52	10°	4,0	○	▲	○	
TPMT 16T308			0,8				○	▲	○	
TPMT 160404	16,5	4,76	0,4	9,52		4,0	○	○	○	
TPMT 160408			0,8				○	○	○	

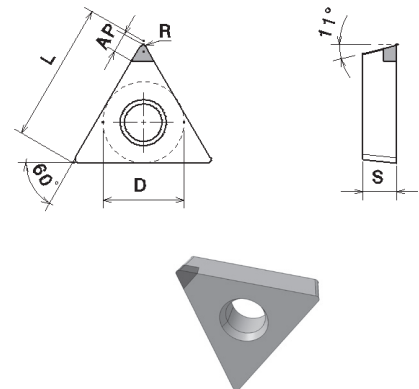


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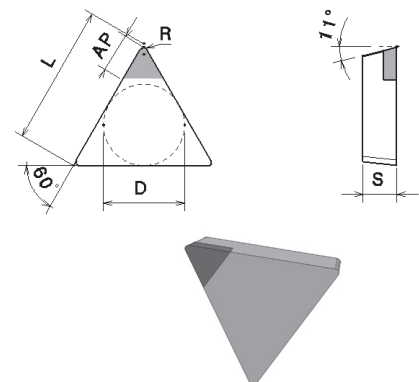
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TPMW 110202	11,0	2,38	0,2	6,35		4,0	○	○	○
TPMW 110204			0,4				○	○	○
TPMW 110208			0,8				○	○	○
TPMW 110302		3,18	0,2				○	○	○
TPMW 110304			0,4				○	○	○
TPMW 110308			0,8				○	○	○
TPMW 16T304	16,5	3,97	0,4	9,52			○	○	○
TPMW 16T308			0,8				○	○	○
TPMW 160404		4,76	0,4				○	○	○
TPMW 160408			0,8				○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TPMW 110202E	11,0	2,38	0,2	6,35		2,5	○	○	○
TPMW 110204E			0,4				○	○	○
TPMW 110302E		3,18	0,2				○	○	○
TPMW 110304E			0,4				○	○	○

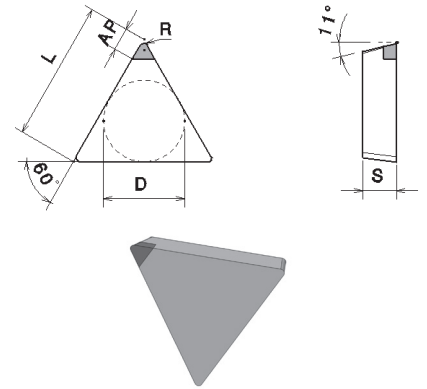


ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
TPUN 110202	11,0	2,38	0,2	6,35		4,0	○	○	○
TPUN 110204			0,4				○	○	○
TPUN 110208			0,8				○	○	○
TPUN 110302		3,18	0,2				○	○	○
TPUN 110304			0,4				○	▲	○
TPUN 110308			0,8				○	○	○
TPUN 160304	16,5	4,76	0,4	9,52			○	▲	○
TPUN 160308			0,8				○	▲	○



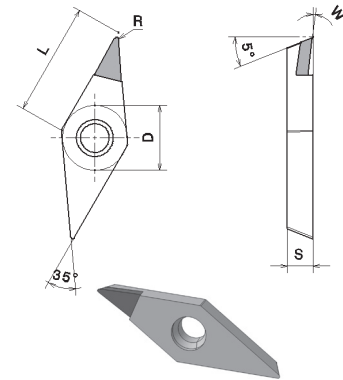
- ▲ Available in stock
- Available upon request

ISO DESIGNATION	DIMENSIONS					PCD GRADE		
	L	S	R	D	AP	PJ	PA	PB
TPUN 110202E	11,0	2,38	0,2	6,35	2,5	○	○	○
TPUN 110204E			0,4			○	○	○
TPUN 110208E			0,8			○	○	○
TPUN 110302E		3,18	0,2			○	○	○
TPUN 110304E			0,4			○	○	○
TPUN 110308E			0,8			○	○	○
TPUN 160304E	16,5		0,4	9,52		○	○	○
TPUN 160308E			0,8			○	○	○

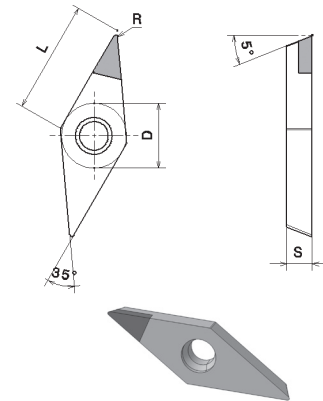


- ▲ Available in stock
- Available upon request

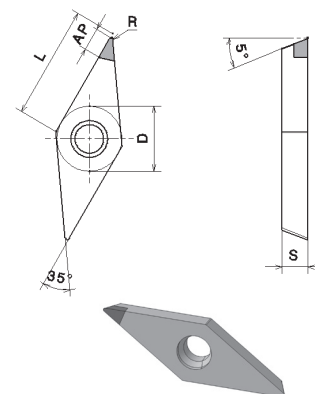
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
VBMT 110302	11,1	3,18	0,2	6,35	10°	3,7	○	▲	○
VBMT 110304			0,4				○	○	
VBMT 160402	16,6	4,76	0,2	9,52		4,5	○	○	○
VBMT 160404			0,4				○	▲	○
VBMT 160408			0,8				○	▲	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
VBMW 110201	11,1	2,38	0,1	6,35		3,7	○	○	○
VBMW 110202			0,2				○	○	○
VBMW 110204			0,4				○	○	○
VBMW 110302		3,18	0,2				○	▲	○
VBMW 110304			0,4				○	▲	○
VBMW 110308			0,8				○	▲	○
VBMW 160402	16,6	4,76	0,2	9,52		4,5	○	○	○
VBMW 160403			0,3				○	○	○
VBMW 160404			0,4				○	▲	○
VBMW 160406			0,6				○	○	○
VBMW 160408			0,8				○	▲	○
VBMW 160412			1,2				○	○	○



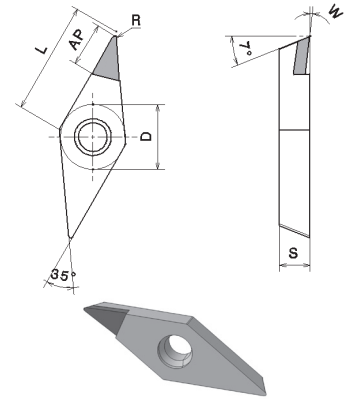
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
VBMW 110201E	11,1	2,37	0,1	6,35		3,0	○	○	○
VBMW 110202E			0,2				○	○	○
VBMW 110204E			0,4				○	○	○
VBMW 160402E	16,6	4,76	0,2	9,52		3,0	○	▲	○
VBMW 160404E			0,4				○	▲	○
VBMW 160408E			0,8				○	▲	○
VBMW 160412E			1,2				○	▲	○



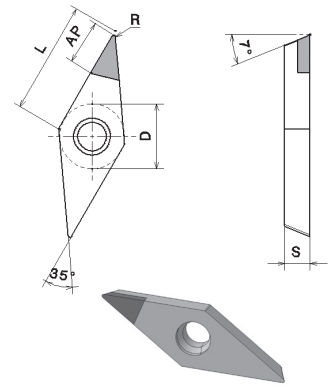
PCD INSERTS

- ▲ Available in stock
- Available upon request

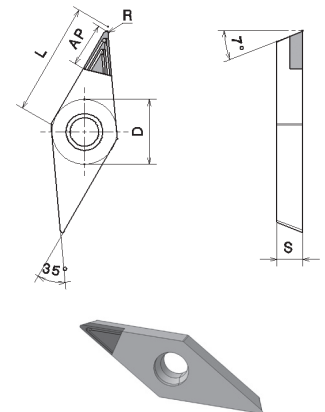
ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D	W	AP	PJ	PA	PB
VCMT 070202	6,92	2,38	0,2	3,97	7°	3,7	○	▲	○
VCMT 070204			0,4				○	▲	○
VCMT 110302	11,1	3,18	0,2	6,35			○	○	○
VCMT 110304			0,4				○	▲	○
VCMT 130302	13,1		0,2	7,94			○	○	○
VCMT 130304							0,4	○	○
VCMT 160402	16,6	4,76	0,2	9,52	10°	4,5	○	○	○
VCMT 160404			0,4				○	▲	○
VCMT 160408			0,8				○	▲	○
VCMT 160412			1,2				○	○	○



ISO DESIGNATION	DIMENSIONS						PCD GRADE		
	L	S	R	D		AP	PJ	PA	PB
VCMW 070202	6,92	2,38	0,2	3,97	7°	3,7	○	▲	○
VCMW 070204			0,4				○	▲	○
VCMW 070208			0,8				○	▲	○
VCMW 110302	11,1	3,18	0,2	6,35			○	▲	○
VCMW 110304			0,4				○	▲	○
VCMW 110308	13,1		0,2	7,94			○	○	○
VCMW 130304					0,4	○	○	○	
VCMW 160402	16,6	4,76	0,2	9,52	10°	4,5	○	▲	○
VCMW 160404			0,4				○	▲	○
VCMW 160408			0,8				○	▲	○
VCMW 160412			1,2				○	▲	○



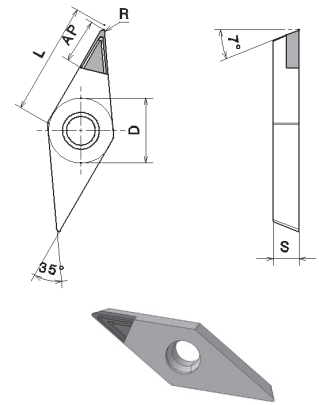
ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
VCMW 110302FI	11,1	3,18	0,2	6,35	7°	3,7	○	○	○	
VCMW 110304FI			0,4				○	▲	○	
VCMW 110308FI	13,1	0,2	7,94	○		○	○			
VCMW 160402FI	16,6			4,76		0,2	9,52	10°	4,5	○
VCMW 160404FI		0,4	○			▲				○
VCMW 160408FI		0,8	○			▲				○
VCMW 160412FI		1,2	○		○	○				



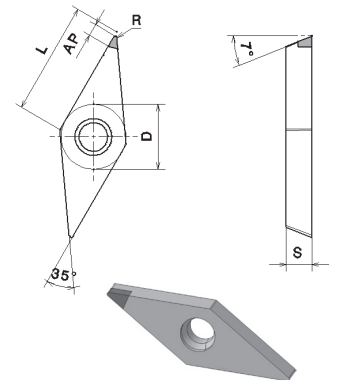
- ▲ Available in stock
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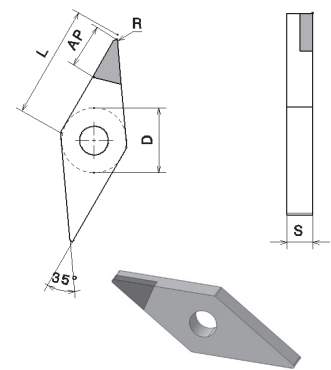
ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
VCMW 110302RO	11,1	3,18	0,2	6,35		3,7	○	○	○
VCMW 110304RO			0,4				○	▲	○
VCMW 110308RO	13,1		0,2	7,94			○	○	○
VCMW 160402RO	16,6	4,76	0,2	9,52		4,5	○	○	○
VCMW 160404RO			0,4				○	▲	○
VCMW 160408RO			0,8				○	▲	○
VCMW 160412RO			1,2				○	○	○



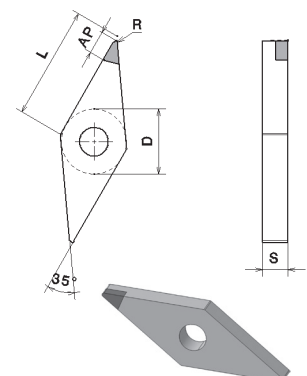
ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
VCMW 110302E	11,1	3,18	0,2	6,35		3,0	○	○	○
VCMW 110304E			0,4				○	▲	○
VCMW 160402E	16,6	4,76	0,2	9,52		3,0	○	▲	○
VCMW 160404E			0,4				○	▲	○
VCMW 160408E			0,8				○	▲	○
VCMW 160412E			1,2				○	▲	○



ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
VNMA 160402	16,6	4,76	0,2	9,52		4,5	○	○	○
VNMA 160403			0,3				○	○	○
VNMA 160404			0,4				○	▲	○
VNMA 160406			0,6				○	○	○
VNMA 160408			0,8				○	▲	○
VNMA 160410			1,0				○	○	○
VNMA 160412			1,2				○	○	○



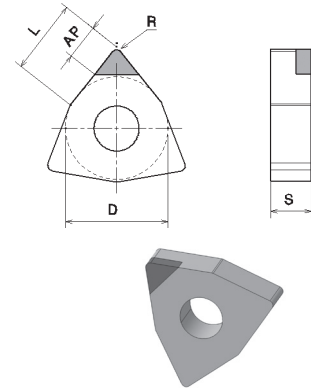
ISO DESIGNATION	DIMENSIONS					PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB
VNMA 160402E	16,6	4,76	0,2	9,52		3,0	○	○	○
VNMA 160404E			0,4				○	○	○
VNMA 160408E			0,8				○	○	○



PCD INSERTS

- ▲ Available in stock
- Available upon request

ISO DESIGNATION	DIMENSIONS						PCD GRADE			
	L	S	R	D		AP	PJ	PA	PB	
WNMA 080404	8,69	4,76	0,4	12,7		4,0	○	○	○	
WNMA 080408	8,69	4,76	0,8	12,7		4,0	○	○	○	
WNMA 080412	8,69	4,76	1,2	12,7		4,0	○	○	○	



- ▲ Available in stock
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RECOMMENDED PARAMETERS FOR PCD

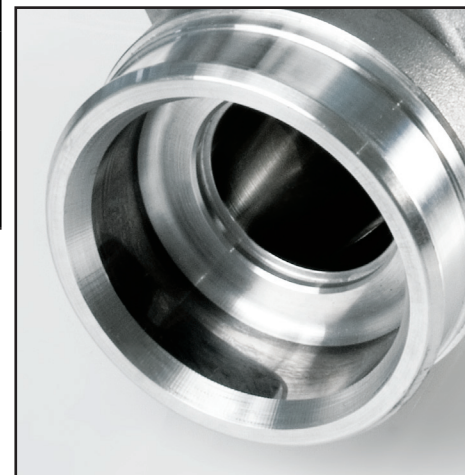
The below cutting data are purely an indication and are calculated assuming optimal working conditions. For more detailed information and for choosing the best grade, you should contact IT.TE.DI.'s offices.

CUTTING PARAMETERS

MATERIAL	V _c (m/min)		a _p (mm)	f (mm/U)
Aluminum Alloys: Si <12%	Turning (roughing)	800-3000	0,3-5,0	0,1-0,6
	Turning (finishing)	800-3000	0,05-1,0	0,03-0,2
Aluminum Alloys: Si >12%	Turning (roughing)	300-900	0,1-2,5	0,1-0,4
	Turning (finishing)	300-900	0,05-0,08	0,03-0,2
Copper, Bronze, Brass, Zinc and Magnesium Alloys	Turning (roughing)	600-1200	0,5-2,0	0,1-0,4
	Turning (finishing)	700-1500	0,05-0,5	0,05-0,4
Solid Carbide	Turning (roughing)	20-25	0,1-0,5	0,1-0,3
	Turning (finishing)	20-30	0,05-0,2	0,05-0,2

PARAMETERS FOR FI TYPE AND RO TYPE INSERTS

TYPE					
FI-FINISHING	RADIUS	mm	0,2	0,4	0,8
	Feed (f)	mm/U	0,04-0,1	0,08-0,2	0,1-0,3
	Cutting Depth (a _p)	mm	0,05-0,6	0,1-2,0	0,3-2,5
RO-ROUGHING	RADIUS	mm	0,4	0,8	
	Feed (f)	mm/U	0,1-0,25	0,15-0,35	
	Cutting Depth (a _p)	mm	0,4-2,0	0,6-3,0	





Via Nazionale, 60 - 52020 Pergine Valdarno - Arezzo - Italy

Tel +39 0575 80911 - Fax +39 0575 8091901 - info@ittedi.it

www.ittedi.com