



Inserts

CANELA Easy grade	A.02
Grades	A.03
Code key	A.06
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CANELA Easy grade

Three easy steps to choose a grade.

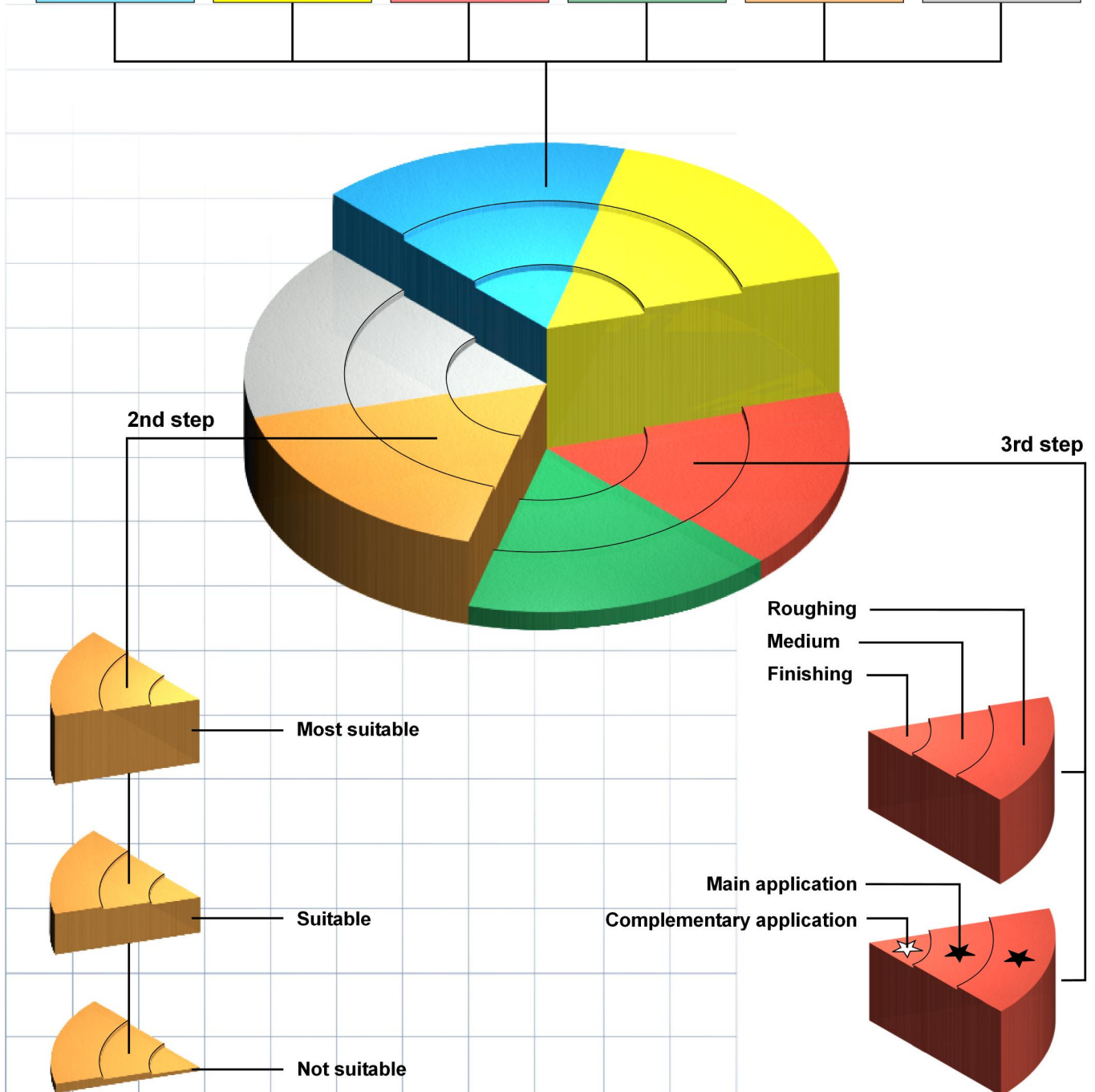
1st - Select group material (Steel, Stainless steel, Cast iron, Non ferrous materials, heat resistant alloys or hard materials).

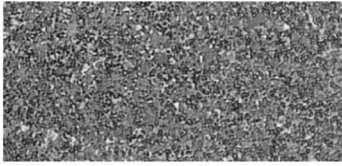
2nd - Select suitability. Suitability of each grade is indicated by the height of each material segment.

3rd - Select machining application. Each segment is divided into three sections, each section indicates the machining application type: roughing, medium, finishing. The main application area of each insert is indicated by a black star and the extended applications are indicated by a white star.

1st step

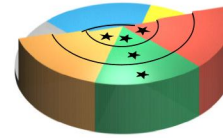
Steel Unalloyed steel Alloyed steel Cemented steel Constructional steel	Stainless steel Austenitic CrNi Martensitic Cr Ferritic Cr Duplex	Cast iron Grey cast iron Sintered iron Nodular cast iron Chilled cast iron	Non ferrous metals Aluminium alloys Copper alloys Non metal materials Plastics Others	Heat resistant alloys Ti-alloys Ni-Co base alloys	Hard materials Hardened steels Hard cast irons Chilled castings
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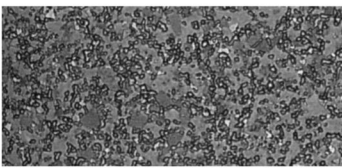
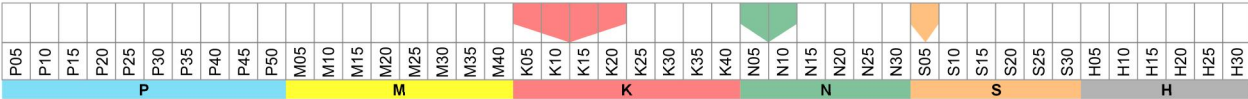


KM 15

Finishing grade in the K10 range. This carbide grade is for use on cast iron, aluminium and heat-resistant alloys. This grade works well on cobalt based alloys and synthetic materials and is suitable for finishing on heat-resistant alloys.



K10

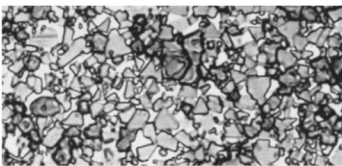
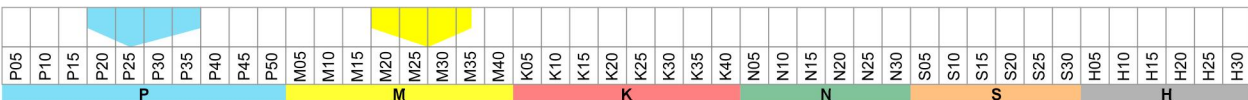


PM 25

General purpose uncoated grade in the P30 range. This tough, economical grade is suitable to work carbon steels, alloyed steels, tool steels and stainless steels. PM25 provides toughness and resistance to deformation in roughing and semi-finishing applications.

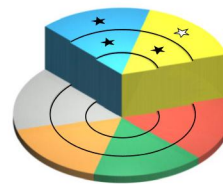


P25 - M20

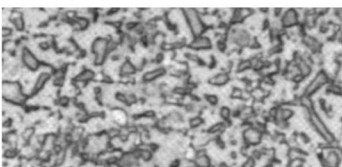
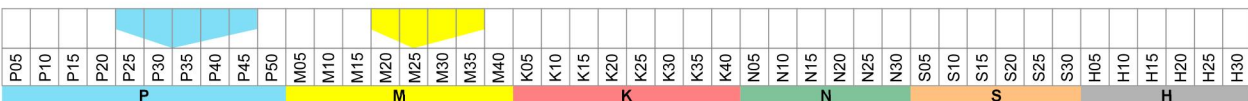


PM 40

Roughing grade in the P35 range. This tough grade is for structural, cast and tool steels. It is recommended when toughness is more important than wear resistance.

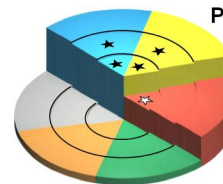


P40 - M30

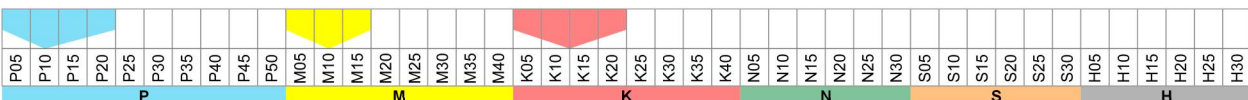


NC 40

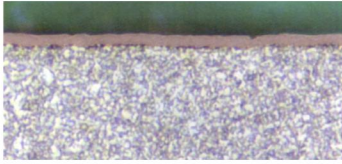
NC 40 is a newly developed Cermet applicable for a wide range of cutting conditions as a standard grade for general machining of steel. It can successfully be used for a range of cutting speeds from (100 to 200 m/min) with better wear resistance than conventional TiC Cermet. It gives an excellent performance from semi-finish to finish operation of ductile cast iron at cutting speeds of 200 m/min. or less.



P15 - M10 - K10

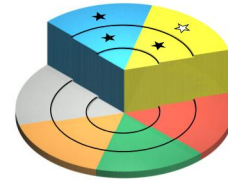


- Inserts
- Face milling cutters
- Square shoulder cutters
- Slot cutters
- Porcupine cutters
- Specific applications and sets
- Profile milling
- Solid carbide
- Drills
- Boring heads
- Arbors and adaptors



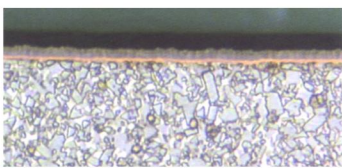
TC30

Tough grade for milling in steel, stainless steel and superalloys. Smooth coating to minimize re-cutting of chips when milling in sticky materials. Excellent grade for tough demanding applications with or without coolant.
Ti (C,N).



P30 - M30

P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	M05	M10	M15	M20	M25	M30	M35	M40	K05	K10	K15	K20	K25	K30	K35	K40	N05	N10	N15	N20	N25	N30	S05	S10	S15	S20	S25	S30	H05	H10	H15	H20	H25	H30	
			P									M															N						S									H		



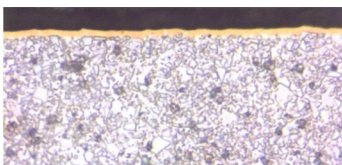
TIN 21

Carbide coated grade with Tin-MT TiCN-Al₂O₃ by CVD. For use on steel, alloyed steel and cast iron. With its aluminium oxide coating, the grade TIN 21 is recommended every time wear characteristics are more important than toughness.



P20-M20-K15

P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	M05	M10	M15	M20	M25	M30	M35	M40	K05	K10	K15	K20	K25	K30	K35	K40	N05	N10	N15	N20	N25	N30	S05	S10	S15	S20	S25	S30	H05	H10	H15	H20	H25	H30	
			P									M																		N						S						H		



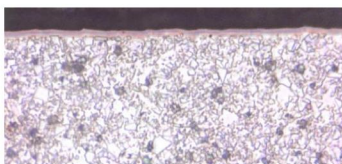
TIN 25

Coated with TiN-TiC-TiN. Coating thickness 3-5 microns for use on steel, alloyed steel and stainless steel, with or without coolant. With coolant, TIN 25 performs well when milling titanium or nickel based alloys, and ductile iron.



P25 - M20

P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	M05	M10	M15	M20	M25	M30	M35	M40	K05	K10	K15	K20	K25	K30	K35	K40	N05	N10	N15	N20	N25	N30	S05	S10	S15	S20	S25	S30	H05	H10	H15	H20	H25	H30	
			P									M																		N						S						H		



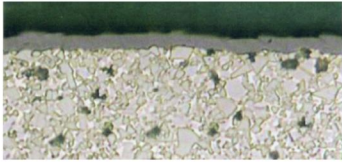
TIN 28

Micrograin carbide grade enhanced with multilayer PVD coating that offers a lower friction coefficient and a sharper cutting edge. TIN28 is Canela's first choice for Stainless and alloy steels at low to medium cutting speeds and for unstable machining conditions. The sharp cutting edge achieved by the PVD coating gives the workpiece an excellent surface finish.



P30 - M30

P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	M05	M10	M15	M20	M25	M30	M35	M40	K05	K10	K15	K20	K25	K30	K35	K40	N05	N10	N15	N20	N25	N30	S05	S10	S15	S20	S25	S30	H05	H10	H15	H20	H25	H30	
			P									M																		N						S						H		

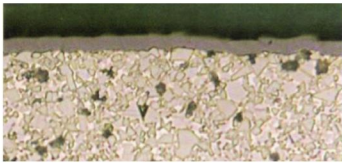
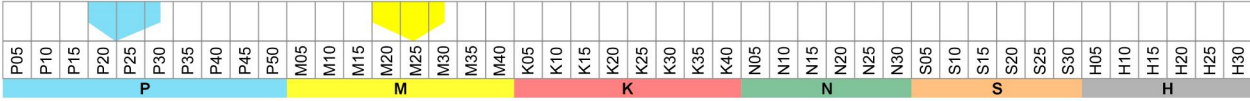


TL20

Carbide coated with TiAlN and lubricity layer PVD coating. It has a lower friction coefficient and a lower cutting energy during finishing. The sharper cutting edge reduces the built-up edge damage and gives the workpiece an excellent surface finish. Recommended for alloyed steel.



P25 - M20

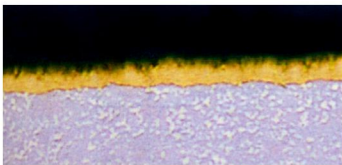
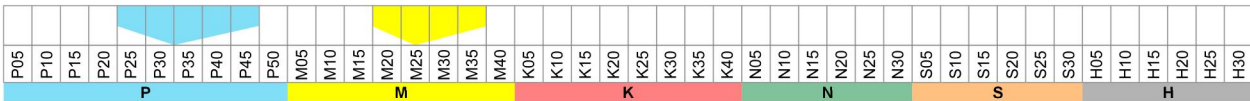


TL40

PVD-coated grade for fine to medium rough milling. First choice for milling with small feeds and/or low cutting speeds. Excellent for milling when there is a risk of vibrations and when coolant is used. Recommended for machining superalloys. Multilayer (TiAlN).

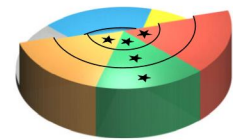


P40 - M30

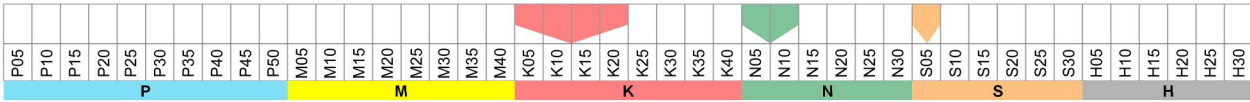


ZR 10

Micrograin grade with an extremely hard single zirconium layer for machining aluminium, copper alloys and plastics.



K10



Grade chart



Inserts

Face milling cutters

Square shoulder cutters

Slot cutters

Porcupine cutters

Specific applications and sets

Profile milling

Solid carbide

Drills

Boring heads

Arbors and adaptors

Insert shape		
	35°	V
	55°	D
	75°	E
	80°	C
	86°	M
	55°	K
	82°	B
	85°	A
	90°	L
	108°	P
	120°	H
	135°	O
	-	R
	90°	S
	60°	T
	80°	W

Clearance angle		
	3°	A
	5°	B
	7°	C
	15°	D
	20°	E
	25°	F
	30°	G
	0°	N
	11°	P
	Clearance angles not included with in the standard for which particular information is necessary.	

Tolerances			
0,025	0,005	0,025	A
0,013	0,005	0,025	F
0,025	0,013	0,025	C
0,013	0,013	0,025	H
0,025	0,025	0,025	E
0,025	0,025	0,13	G
0,05-0,15	0,005	0,025	J
0,05-0,15	0,013	0,025	K
0,05-0,15	0,025	0,025	L
0,05-0,15	0,08-0,20	0,13	M
0,05-0,15	0,08-0,20	0,025	N
0,08-0,25	0,13-0,38	0,13	U

Form of top surface	
	N
	R
	F
	A
	M
	G
	W
	T
	Q
	U
	B
	H
	C
	J
Special version	X

S

E

K

N

A	0,0010	0,0002	0,001
F	0,0005	0,0002	0,001
C	0,0010	0,0005	0,001
H	0,0005	0,0005	0,001
E	0,0010	0,0010	0,001
G	0,0010	0,0010	0,005
J	0,002 to 0,006*	0,0002	0,001
K	0,002 to 0,006*	0,0005	0,001
L	0,002 to 0,006*	0,0010	0,001
M	0,002 to 0,006*	0,003 to 0,008*	0,005
N	0,002 to 0,006*	0,003 to 0,008*	0,001
U	0,003 to 0,010*	0,005 to 0,015*	0,005
* Depends on insert size			
Tolerance (inches)			

N / R / F	E
A / M / G	D
X	X
IK > 1/4"	IK < 1/4"
Symbols as above Changes at inscribed circle IK < 1/4"	
Form of top surface	

Edge cutting length			
06	3,96	5/32	03
09	5,56	7/32	05
11	6,35	1/4	06
16	9,52	3/8	09
22	12,7	1/2	12
27	15,8	5/8	15
33	19,0	3/4	19
44	25,4	1	25
mm	mm	inch	mm
l	d	d	l
06	10	16	25
08	12	20	32
l			

Insert thickness		
1/16	1,59	01
3/32	2,38	02
1/8	3,18	03
5/32	3,97	T3
3/16	4,76	04
7/32	5,56	05
1/4	6,35	06
5/16	7,94	07
3/8	9,52	09
inch	mm	
s		

Corner radius			
00	0,0	12	1,2
M0	0,0	16	1,6
02	0,2	20	2,0
04	0,4	24	2,4
08	0,8	32	3,2
Inserts with corner radius			
Inserts with secondary cutting edge			
A	45°	F	85°
D	60°	P	90°
E	75°		
Angle of main cutting edge to secondary cutting angle χ			
A	3°	F	25°
B	5°	G	30°
C	7°	N	0°
D	15°	P	11°
E	20°	Z	Special
Clearance angle α			

Cutting edge	
F	Sharp
E	Honed
T	Chamfered
S	Chamfered and honed
K	Double-chamfered
P	Double-chamfered and honed

Cutting direction	
R	
L	
N	

Cutting edge	
≤ 1,2	1
1,4	2
2,0	3
2,4	4

Cutting direction	
0	A
0,08 x 40°	B
0,15 x 15°	C
0,15 x 25°	D
0,20 x 10°	E
0,20 x 15°	F
0,20 x 22°	G
0,15 x 20°	X

12

03

AF
04

E

N

- 3

A

4

2

1

1/4	2
3/8	3
1/2	4
5/8	5
3/4	6
1	8
l	l

Cutting edge length (inch)

1/16	1
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
	s

Insert thickness (inch)

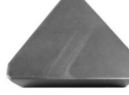
max. 0,004	0
1/64	1
1/32	2
3/64	3
1/16	4
5/64	5
3/32	6
7/64	7
1/8	8
-	X
	r

Corner radius (inch)


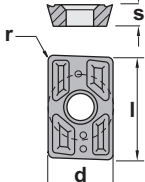
For special forms of the chip groove in the 10° position, manufacturer specific chip grooves and designations can be indicated.


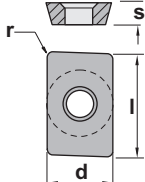
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Profile milling
Solid carbide
Drills
Boring heads
Arbors and adaptors


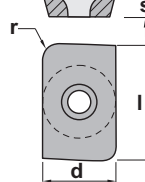
<p>ADMT</p>  <p>Rectangular Positive Page A.10 $\triangle 15^\circ$</p>	<p>ADMW</p>  <p>Rectangular Positive Page A.10 $\triangle 15^\circ$</p>	<p>ADMW-C</p>  <p>Rectangular Positive Page A.10 $\triangle 15^\circ$</p>	<p>ADMW-R</p>  <p>Rectangular Positive Page A.10 $\triangle 15^\circ$</p>	<p>APFT</p>  <p>Rectangular Positive Page A.10 $\triangle 11^\circ$</p>	<p>APHT-AL</p>  <p>Rectangular Positive Page A.11 $\triangle 11^\circ$</p>	<p>APKT</p>  <p>Rectangular Positive Page A.11 $\triangle 11^\circ$</p>
<p>APKT-26</p>  <p>Rectangular Positive Page A.11 $\triangle 11^\circ$</p>	<p>APLT</p>  <p>Rectangular Positive Page A.11 $\triangle 11^\circ$</p>	<p>APLX</p>  <p>Rectangular Positive Page A.11 $\triangle 11^\circ$</p>	<p>APMT</p>  <p>Rectangular Positive Page A.12 $\triangle 11^\circ$</p>	<p>APMT-26</p>  <p>Rectangular Positive Page A.12 $\triangle 11^\circ$</p>	<p>APMW</p>  <p>Rectangular Positive Page A.12 $\triangle 11^\circ$</p>	
<p>CCGT-AL</p>  <p>80° Rhombic Positive Page A.12 $\triangle 7^\circ$</p>	<p>CCKT</p>  <p>80° Rhombic Positive Page A.12 $\triangle 7^\circ$</p>	<p>CCMT-03</p>  <p>80° Rhombic Positive Page A.13 $\triangle 7^\circ$</p>	<p>CCMW</p>  <p>80° Rhombic Negative Page A.13 $\triangle 7^\circ$</p>			
<p>FRC</p>  <p>Single-ended insert Page A.13</p>	<p>FRCR</p>  <p>Single-ended insert Page A.13</p>					
<p>ODMT</p>  <p>Octagonal Positive Page A.14 $\triangle 15^\circ$</p>	<p>ODMW</p>  <p>Octagonal Positive Page A.14 $\triangle 15^\circ$</p>					
<p>RDHW</p>  <p>Round Positive Page A.15 $\triangle 15^\circ$</p>	<p>RDMT</p>  <p>Round Positive Page A.15 $\triangle 15^\circ$</p>	<p>RDMW</p>  <p>Round Positive Page A.15 $\triangle 15^\circ$</p>	<p>RPMT</p>  <p>Round Positive Page A.15 $\triangle 11^\circ$</p>	<p>RPMW</p>  <p>Round Positive Page A.15 $\triangle 11^\circ$</p>		
<p>SCGT-AL</p>  <p>Square Positive Page A.16 $\triangle 7^\circ$</p>	<p>SCMT-39</p>  <p>Square Positive Page A.16 $\triangle 7^\circ$</p>	<p>SCMW</p>  <p>Square Positive Page A.16 $\triangle 7^\circ$</p>	<p>SDMT</p>  <p>Square Positive Page A.16 $\triangle 15^\circ$</p>	<p>SEHT</p>  <p>Square Positive Page A.17 $\triangle 20^\circ$</p>	<p>SEHT-AL</p>  <p>Square Positive Page A.17 $\triangle 20^\circ$</p>	<p>SEHW</p>  <p>Square Positive Page A.17 $\triangle 20^\circ$</p>
<p>SEKN</p>  <p>Square Positive Page A.17 $\triangle 20^\circ$</p>	<p>SEKR</p>  <p>Square Positive Page A.17 $\triangle 20^\circ$</p>	<p>SEMT</p>  <p>Square Positive Page A.18 $\triangle 20^\circ$</p>	<p>SFAN</p>  <p>Square Positive Page A.18 $\triangle 25^\circ$</p>	<p>SNHX</p>  <p>Square Negative Page A.18 $\triangle 0^\circ$</p>	<p>SNKN</p>  <p>Square Negative Page A.18 $\triangle 0^\circ$</p>	<p>SNUN</p>  <p>Square Negative Page A.18 $\triangle 0^\circ$</p>


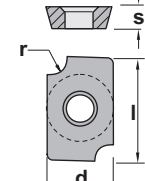
<p>SOMT</p>  <p>Square Positive Page A.19 </p>	<p>SPKN</p>  <p>Square Positive Page A.19 </p>	<p>SPKR</p>  <p>Square Positive Page A.19 </p>	<p>SPMT</p>  <p>Square Positive Page A.19 </p>	<p>SPMW</p>  <p>Square Positive Page A.19 </p>	<p>SPUN</p>  <p>Square Positive Page A.20 </p>	
<p>TCGT-AL</p>  <p>Triangular Positive Page A.20 </p>	<p>TCMT-03</p>  <p>Triangular Positive Page A.20 </p>	<p>TCMT-39</p>  <p>Triangular Positive Page A.20 </p>	<p>TCMW</p>  <p>Triangular Positive Page A.20 </p>	<p>TEKN</p>  <p>Triangular Positive Page A.21 </p>	<p>TPKN</p>  <p>Triangular Positive Page A.21 </p>	<p>TPKR</p>  <p>Triangular Positive Page A.21 </p>
<p>TPUN</p>  <p>Triangular Positive Page A.21 </p>	<p>TPUX</p>  <p>Triangular Positive Page A.22 </p>					
<p>VCGT-AL</p>  <p>35° Rhombic Positive Page A.22 </p>	<p>VCGT-AL</p>  <p>35° Rhombic Positive Page A.22 </p>	<p>VCGT-AP</p>  <p>35° Rhombic Positive Page A.22 </p>	<p>VCGT-AP</p>  <p>35° Rhombic Positive Page A.22 </p>			
<p>WCMT</p>  <p>80° Trigon Positive Page A.23 </p>	<p>WCMX</p>  <p>80° Trigon Positive Page A.23 </p>					
<p>HPR</p>  <p>Round Positive Page A.13 </p>	<p>INT</p>  <p>Positive ball nose insert Page A.14</p>	<p>INW</p>  <p>Positive ball nose insert Page A.14</p>	<p>MTK</p>  <p>Toroidal insert Page A.14</p>	<p>RPR</p>  <p>Round Positive Page A.16 </p>	<p>WPR</p>  <p>Round Positive Page A.23 </p>	
<p>XDKW</p>  <p>High feed Page A.23 </p>						


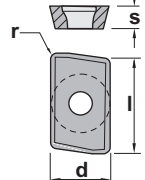
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 	Positive 15° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ADMT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ADMT 150308	15,00	3,18	9,52	0,8		●				●	●				
ADMT 1503PDER	15,00	3,18	9,52	-		●					●				

 	Positive 15° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ADMW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ADMW 150308E	15,00	3,18	9,52	0,8		●				●	●				
ADMW 150308F	15,00	3,18	9,52	0,8	●								○	○	

 	Positive 15° clearance - Rectangular insert. Radius 1 mm to 5 mm.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ADMW-C	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ADMW 1503R1.0-C	15,00	3,18	9,52	1,0							●				
ADMW 1503R1.5-C	15,00	3,18	9,52	1,5							●				
ADMW 1503R2.0-C	15,00	3,18	9,52	2,0							●				
ADMW 1503R2.5-C	15,00	3,18	9,52	2,5							●				
ADMW 1503R3.0-C	15,00	3,18	9,52	3,0							●				
ADMW 1503R3.5-C	15,00	3,18	9,52	3,5							●				
ADMW 1503R4.0-C	15,00	3,18	9,52	4,0							●				
ADMW 1503R4.5-C	15,00	3,18	9,52	4,5							●				
ADMW 1503R5.0-C	15,00	3,18	9,52	5,0							●				
ADMW 1503R6.0-C	15,00	3,18	9,52	6,0							●				

 	Positive 15° clearance - Rectangular insert. Radius 1 mm to 5 mm.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ADMW-R	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ADMW 1503R1.0	15,00	3,18	9,52	1,0							●				
ADMW 1503R1.5	15,00	3,18	9,52	1,5							●				
ADMW 1503R2.0	15,00	3,18	9,52	2,0							●				
ADMW 1503R2.5	15,00	3,18	9,52	2,5							●				
ADMW 1503R3.0	15,00	3,18	9,52	3,0							●				
ADMW 1503R3.5	15,00	3,18	9,52	3,5							●				
ADMW 1503R4.0	15,00	3,18	9,52	4,0							●				
ADMW 1503R4.5	15,00	3,18	9,52	4,5							●				
ADMW 1503R5.0	15,00	3,18	9,52	5,0							●				

 	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	APFT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
APFT 1604PDTR	16,00	4,76	9,52	-		●					●				

APHT-AL

Positive 11° clearance - Rectangular insert.
Micropolished milling insert for machining aluminium and non ferrous materials.
Excellent resistance to abrasion with high cutting speeds.

Normally available for immediate delivery ●
Only available in a limited quantity ○

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
APHT 1003PDFR-AL	9,52	3,18	6,35	-	●									●
APHT 1604PDFR-AL	17,00	4,76	9,52	-	●									●

APKT

Positive 11° clearance - Rectangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TIN28	TL40	ZR10
APKT 1003PDR	9,52	3,18	6,35	0,4								●		
APKT 1003PDTR	9,52	3,18	6,35	0,4		●				●	●			
APKT 1604PDR	16,00	4,76	9,52	0,8		●				●	●	●		
APKT 160416	16,00	4,76	9,52	1,6								●		

APKT-26

Positive 11° clearance - Rectangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
APKT 160408E-26	16,66	4,76	9,52	0,8						●	●			

APLT

Positive 11° clearance - Rectangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
APLT 1504ZZR	15,87	4,76	12,70	0,8		●					●			


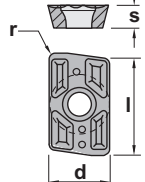
APLX


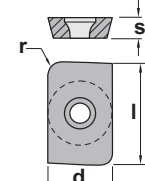
Positive 11° clearance - Rectangular insert.


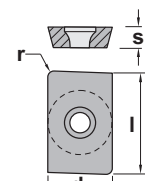
Normally available for immediate delivery ●
Only available in a limited quantity ○


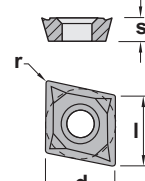
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
APLX 1504ZZR	15,87	4,76	12,70	0,8	○	●					●			


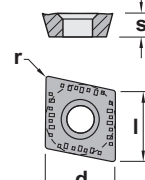
Inserts
Face milling cutters
Square shoulder cutters
Slot cutters
Porcupine cutters
Specific applications and sets
Profile milling
Solid carbide
Drills
Boring heads
Arbors and adaptors


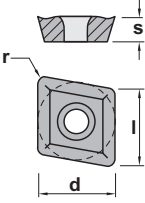
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	APMT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	APMT 1604PDER	16,00	4,76	9,52	0,8	●	●				●	●		●	
	APMT 200408	20,00	4,76	12,70	0,8		●					●		●	


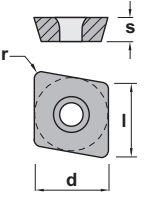
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	APMT-26	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	APMT 160412E-26	16,66	4,76	9,52	1,2						●				
	APMT 160416E-26	16,66	4,76	9,52	1,6						●				
	APMT 160424E-26	16,66	4,76	9,52	2,4						●				
	APMT 160432E-26	16,66	4,76	9,52	3,2						●				
	APMT 160440E-26	16,66	4,76	9,52	4,0						●				
	APMT 160448E-26	16,66	4,76	9,52	4,8						●				
	APMT 160464E-26	16,66	4,76	9,52	6,4						●				


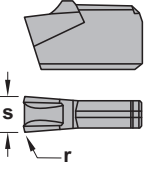
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	APMW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	APMW 200408E	20,00	4,76	12,70	0,8		●					●		●	
	APMW 200408F	20,00	4,76	12,70	0,8	○									


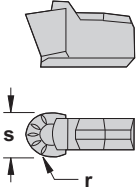
	Positive 7° clearance - 80° rhombic insert. For aluminium and soft materials.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	CCGT-AL	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	CCGT 060202-AL	6,45	2,38	6,35	0,2	●									○
	CCGT 060204-AL	6,45	2,38	6,35	0,4	●									○
	CCGT 09T302-AL	9,65	3,97	9,52	0,2	●									○
	CCGT 09T304-AL	9,65	3,97	9,52	0,4	●									○
	CCGT 09T308-AL	9,65	3,97	9,52	0,8	●									○
	CCGT 120402-AL	12,90	4,76	12,70	0,2	●									○
	CCGT 120404-AL	12,90	4,76	12,70	0,4	●									○
	CCGT 120408-AL	12,90	4,76	12,70	0,8	●									○


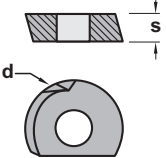
	Positive 7° clearance - 80° rhombic insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	CCKT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	CCKT 060204	6,45	2,38	6,35	0,4						●	●			
	CCKT 080308	8,05	3,18	7,94	0,8						●	●			
	CCKT 09T308	9,65	4,00	9,52	0,8						●	●			
	CCKT 120408	12,90	4,76	12,70	0,8						●	●			



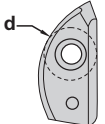
	Positive 7° clearance - 80° rhombic insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	CCMT-03	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	CCMT 060202-03	6,45	2,38	6,35	0,2		●									
	CCMT 060204-03	6,45	2,38	6,35	0,4	●	●					●				
	CCMT 080304-03	8,05	3,18	7,94	0,4	●	●					●				
	CCMT 080308-03	8,05	3,18	7,94	0,8							●				
	CCMT 09T304-03	9,65	3,97	9,52	0,4	●	●					●				
	CCMT 09T308-03	9,65	3,97	9,52	0,8	●	●					●				
	CCMT 120408-03	12,90	4,76	12,70	0,8		●					●				



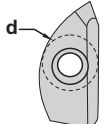
	Positive 7° clearance - 80° rhombic insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	CCMW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	CCMW 060202	6,45	2,38	6,35	0,2		●					○				
	CCMW 060204	6,45	2,38	6,35	0,4		●					○				
	CCMW 080304	8,05	3,18	7,94	0,4		●					○				
	CCMW 09T304	9,65	3,97	9,52	0,4		●					○				
	CCMW 09T308	9,65	3,97	9,52	0,8		●					○				
	CCMW 120408	12,90	4,76	12,70	0,8		●					○				

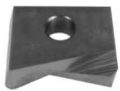
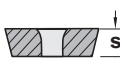
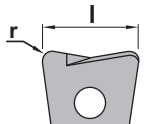
	Slot cutter insert						Normally available for immediate delivery ● Only available in a limited quantity ○									
	FRC	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	FRC 1.6	-	1,60	-	0,15							●	●			
	FRC 2.2	-	2,20	-	0,20							●	●			
	FRC 3.0	-	3,00	-	0,20							●	●			
	FRC 4.0	-	4,00	-	0,20							●	●			
	FRC 5.0	-	5,00	-	0,30							●	●			
	FRC 6.0	-	6,00	-	0,30							●	●			



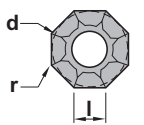
	Round slot cutter insert						Normally available for immediate delivery ● Only available in a limited quantity ○									
	FRCR	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	FRCR 3.0	-	3,00	-	1,50									●		
	FRCR 4.0	-	4,00	-	2,00									●		
	FRCR 5.0	-	5,00	-	2,50							●	●			
	FRCR 6.0	-	6,00	-	3,00							●	●			

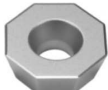

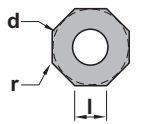
	Positive 11° clearance - Round insert						Normally available for immediate delivery ● Only available in a limited quantity ○									
	HPR	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	HPR 10	-	2,40	10,00	-								●			
	HPR 12	-	2,50	12,00	-								●			
	HPR 16	-	3,00	16,00	-								●			
	HPR 20	-	3,00	20,00	-								●			
	HPR 25	-	4,00	25,00	-								●			
	HPR 32	-	5,00	32,00	-								●			

  	Positive ball nose insert					Normally available for immediate delivery ● Only available in a limited quantity ○									
	INT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
INT 25	-	4,5	12,50	-					●						
INT 32	-	5,6	16,00	-					●						
INT 40	-	5,6	20,00	-					●						
INT 50	-	7,9	25,00	-					●						

  	Positive ball nose insert					Normally available for immediate delivery ● Only available in a limited quantity ○									
	INW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
INW 25	-	4,5	12,50	-					●						
INW 32	-	5,6	16,00	-					●						
INW 40	-	5,6	20,00	-					●						
INW 50	-	7,9	25,00	-					●						




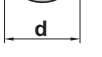

  	Toroidal insert					Normally available for immediate delivery ● Only available in a limited quantity ○									
	MTK	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
MTK 10	10,00	2,60	-	0,60									●		
MTK 12	12,00	3,00	-	1,00									●		
MTK 16	16,00	4,00	-	1,30									●		
MTK 20	20,00	5,00	-	1,60									●		
MTK 25	25,00	6,00	-	2,00									●		

  	Positive 15° clearance - Octogonal insert. Multipurpose milling insert developed for both finishing and roughing operations, helping to rationalise tooling cost.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ODMT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ODMT 040408	4,00	4,76	12,70	0,8						●	●				
ODMT 060512	6,00	5,55	16,00	12						●	●				

  	Positive 15° clearance - Octogonal insert. Multipurpose milling insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	ODMW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
ODMW 040408	4,00	4,76	12,70	0,8						●					
ODMW 060508	6,00	5,55	16,00	0,8						●					
ODMW 060512	6,00	5,55	16,00	1,2						●					




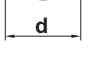
Positive 15° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RDHW

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	-	2,38	7,00	-								●	●	
	-	3,18	10,00	-								●	●	
	-	3,97	12,00	-								●	●	
	-	4,76	16,00	-								●	●	
	-	6,35	20,00	-								●	●	




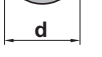


Positive 15° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RDMT

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	-	3,97	10,00	-										●
	-	4,76	12,00	-		●					●			
	-	3,97	12,00	-										●
	-	4,76	16,00	-										●



Positive 15° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RDMW

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	-	2,38	7,00	-								●	●	
	-	3,18	10,00	-								●	●	
	-	3,97	12,00	-								●	●	
	-	4,76	12,00	-		●					●			
	-	4,76	16,00	-								●	●	
	-	6,35	20,00	-								●	●	




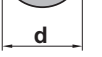
Positive 11° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RPMT

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	-	4,76	12,70	-		●					●			
	-	4,76	12,00	-		●				●	●		●	

Positive 11° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RPMW

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	-	2,38	8,00	-		●					●		●	
	-	3,18	10,00	-		●					●		●	
	-	4,76	12,00	-	●									
	-	4,76	12,00	-		●				●	●		●	

- Inserts
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- Square shoulder cutters
- Slot cutters
- Porcupine cutters
- Specific applications and sets
- Profile milling
- Solid carbide
- Drills
- Boring heads
- Arbors and adaptors

Positive 11° clearance - Round insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

RPR

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
RPR 10	-	2,60	10,00	-								●		
RPR 12	-	3,00	12,00	-								●		
RPR 16	-	4,00	16,00	-								●		
RPR 20	-	5,00	20,00	-								●		
RPR 25	-	6,00	25,00	-								●		
RPR 32	-	7,00	32,00	-								●		

Positive 7° clearance - Square insert for aluminium and soft materials. Suitable for finishing stainless steel. Normally available for immediate delivery ●
Only available in a limited quantity ○

SCGT-AL

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SCGT 09T304-AL	9,52	3,97	9,52	0,4	●									○
SCGT 09T308-AL	9,52	3,97	9,52	0,8	●									○
SCGT 120408-AL	12,70	4,76	12,70	0,8	●									○

Positive 7° clearance - Square insert. Normally available for immediate delivery ●
Only available in a limited quantity ○

SCMT-39

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SCMT 09T304-39	9,52	3,97	9,52	0,4		●					○			
SCMT 09T308-39	9,52	3,97	9,52	0,8	○	●					●			
SCMT 120404-39	12,70	4,76	12,70	0,4		●					○			
SCMT 120408-39	12,70	4,76	12,70	0,8	○	●					●			
SCMT 120412-39	12,70	4,76	12,70	1,2		●					○			
SCMT 120612-39	12,70	6,35	12,70	1,2		●					○			

Positive 7° clearance - Square insert. Normally available for immediate delivery ●
Only available in a limited quantity ○


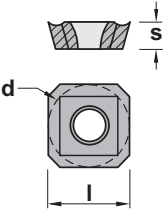
SCMW

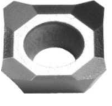
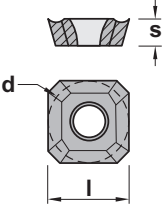
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SCMW 09T308	9,52	3,97	9,52	0,8		●					○			
SCMW 120408	12,70	4,76	12,70	0,8	○	○					○			
SCMW 120412	12,70	4,76	12,70	1,2		○					○			

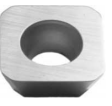
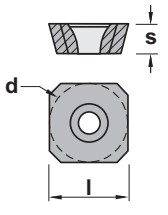
Positive 15° clearance - Square insert. Reduces costs in facing square shoulder applications due to its four effective cutting edges. Normally available for immediate delivery ●
Only available in a limited quantity ○


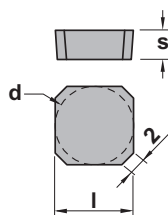
SDMT


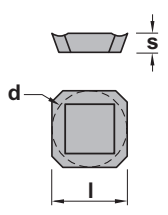
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SDMT 12T308	13,29	3,97	13,29	0,8							●	●	●	

	Positive 20° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEHT	l	s	d	r		KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	SEHT 1204AF-N	12,70	4,76	12,70	-							●	●			



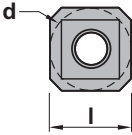
	Positive 20° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEHT-AL	l	s	d	r		KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	SEHT 1204AFFN-AL	12,70	3,18	6,35	-	●										●


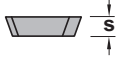
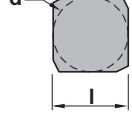
	Positive 20° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEHW	l	s	d	r		KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	SEHW 1204AFEN001 SEHW 1204AFSN151	12,70 12,70	4,76 4,76	12,70 12,70	- -	● -		●				●	●			



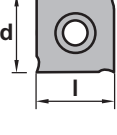
	Positive 20° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEKN	l	s	d	r		KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	SEKN 1203AFEN-3A SEKN 1203AFSN-3D SEKN 1204AFEN-3A SEKN 1204AFSN-3D SEKN 1504AFEN-4A SEKN 1504AFSN-4D	12,70 12,70 12,70 12,70 15,88 15,88	3,18 3,18 4,76 4,76 4,76 4,76	12,70 12,70 12,70 12,70 15,88 15,88	- - - - - -	● ○ ○ ○ ○ ○	●	●		●			●	●	●	●


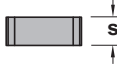
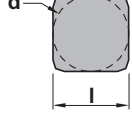
	Positive 20° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEKR	l	s	d	r		KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TIN28	TL40	ZR10
	SEKR 1203AFN SEKR 1203AFTN-94	12,70 12,70	3,18 3,18	12,70 12,70	- -									●		


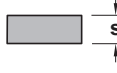
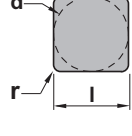
Inserts
Face milling cutters
Square shoulder cutters
Slot cutters
Porcupine cutters
Specific applications and sets
Profile milling
Solid carbide
Drills
Boring heads
Arbors and adaptors


	Positive 20° clearance - Square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	SEM	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TIN28	TL40	ZR10
 	SEM 1204AFTN	12,70	4,76	12,70	-								●		


	Positive 25° clearance - Square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	SFAN	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
 	SFAN 1203EFL SFAN 1203EFR	12,70	3,18	12,70	-	○									


	Negative square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	SNHX	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
 	SNHX 1102XX SNHX 1103XX SNHX 1203XX SNHX 12045XX SNHX 1205XX SNHX 1207XX	11,00 11,00 12,70 12,70 12,70 12,70	2,38 2,70 3,18 4,50 5,40 7,00	11,00 11,00 12,70 12,70 12,70 12,70	- - - - - -		● ● ● ● ● ●							● ● ● ● ● ●	


	Negative square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	SNKN	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
 	SNKN 1204ENN	12,70	4,76	12,70	-	○	●								


	Negative square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	SNUN	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
 	SNUN 120408E SNUN 120408F SNUN 120412E	12,70 12,70 12,70	4,76 4,76 4,76	12,70 12,70 12,70	0,8 0,8 1,2		● ○ ●								

	Positive 7° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SOMT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	SOMT 12M612SN-B	12,70	6,00	12,70	1,2	●					●					
SOMT 15M612SN-B	15,88	6,00	15,88	1,2	●					●						

	Positive 11° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SPKN	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TIN28	TL40	ZR10	
	SPKN 1203EDER-3A	12,70	3,18	12,70	-	●										
SPKN 1203EDSR-3C	12,70	3,18	12,70	-		●					●	●		●		
SPKN 1203EDTR	12,70	3,18	12,70	-									●			
SPKN 1504EDSR-2F	15,88	4,76	15,88	-		●						●		●		

	Positive 11° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SPKR	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TIN28	TL40	ZR10	
	SPKR 1203EDR	12,70	3,18	12,70	-								●			
SPKR 1203EDSR	12,70	3,18	12,70	-								●		●		




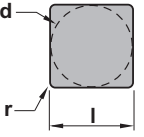
	Positive 11° clearance - Square insert						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SPMT	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	SPMT 060304	6,35	3,18	6,35	0,4								●	●		
SPMT 070308	7,94	3,18	7,94	0,8								●	●			
SPMT 090308	9,52	3,18	9,52	0,8								●	●			
SPMT 120408	12,70	4,76	12,70	0,8								●	●			

	Positive 11° clearance - Square insert.						Normally available for immediate delivery ● Only available in a limited quantity ○									
	SPMW	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
	SPMW 120408	12,70	4,76	12,70	0,8	○	●					●		●		

Inserts
Face milling cutters
Square shoulder cutters
Slot cutters
Porcupine cutters
Specific applications and sets
Profile milling
Solid carbide
Drills
Boring heads
Arbors and adaptors



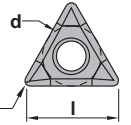
Positive 11° clearance - Square insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

SPUN		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	SPUN 090304E	9,52	3,18	9,52	0,4		○					○			
	SPUN 090308E	9,52	3,18	9,52	0,8		●					●			
	SPUN 090308F	9,52	3,18	9,52	0,8	○									
	SPUN 120304E	12,70	3,18	12,70	0,4		●					●			
	SPUN 120308E	12,70	3,18	12,70	0,8		●					●		○	
	SPUN 120308F	12,70	3,18	12,70	0,8	●						●			
	SPUN 120312E	12,70	3,18	12,70	1,2		●				●	●			
	SPUN 120408E	12,70	4,76	12,70	0,8		○								
	SPUN 150408E	15,88	4,76	15,88	0,8		○								
	SPUN 150412E	15,88	4,76	15,88	1,2		○								
	SPUN 190412E	19,05	4,76	19,05	1,2		○								



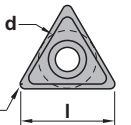
Positive 7° clearance - Triangular insert for aluminium and soft materials.
Suitable for finishing stainless steel.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TCGT-AL		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	TCGT 110202-AL	11,00	2,38	6,35	0,2	●									○
	TCGT 110204-AL	11,00	2,38	6,35	0,4	●									○
	TCGT 16T302-AL	16,50	3,97	9,52	0,2	●									○
	TCGT 16T304-AL	16,50	3,97	9,52	0,4	●									○
	TCGT 16T308-AL	16,50	3,97	9,52	0,8	●									○


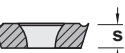
Positive 7° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TCMT-03		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	TCMT 090204-03	9,62	2,38	5,55	0,4	○									
	TCMT 110204-03	11,00	2,38	6,35	0,4	●	●					●			
	TCMT 16T304-03	16,50	3,97	9,52	0,4	○	●								
	TCMT 16T308-03	16,50	3,97	9,52	0,8	●	●								
	TCMT 220408-03	22,00	4,76	12,70	0,8		○								
	TCMT 220412-03	22,00	4,76	12,70	1,2		○								

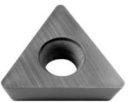

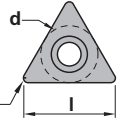
Positive 7° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TCMT-39		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	TCMT 16T308-39	16,50	3,97	9,52	0,8		●					●		●	
	TCMT 16T312-39	16,50	3,97	9,52	1,2		●					●			

Positive 7° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TCMW		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
	TCMW 110204	11,00	2,38	6,35	0,4	○	●								○
	TCMW 16T304	16,50	3,97	9,52	0,4	●									○
	TCMW 16T308	16,50	3,97	9,52	0,8	●	●								○

Positive 20° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TEKN

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
TEKN 1603PETR	16,50	3,18	9,52	-	○	●					○			
TEKN 2204PETR	22,00	4,76	12,70	-	●	●					○			

Positive 11° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TPKN

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
TPKN 1103PPSN-1C	11,00	3,18	6,35	-		●					○			
TPKN 1603PDER-1A	16,50	3,18	9,52	-	●									
TPKN 1603PDSR-1C	16,50	3,18	9,52	-		●					●		●	
TPKN 2204PDER-1A	22,00	4,76	12,70	-	●									
TPKN 2204PDSR-1F	22,00	4,76	12,70	-		●					●		●	

Positive 11° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TPKR

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
TPKR 1603PPSR	16,50	3,18	9,52	-							●		●	

Positive 11° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

TPUN

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
TPUN 110204E	11,00	2,38	6,35	0,4		●					●			
TPUN 110204F	11,00	2,38	6,35	0,4	○									
TPUN 110208E	11,00	2,38	6,35	0,8		●					●			
TPUN 110304E	11,00	3,18	6,35	0,4		●					●			
TPUN 110308E	11,00	3,18	6,35	0,8		●					●			
TPUN 110308F	11,00	3,18	6,35	0,8	○									
TPUN 160304E	16,50	3,18	9,52	0,4		●					●			
TPUN 160304F	16,50	3,18	9,52	0,4	●									
TPUN 160308T	16,50	3,18	9,52	0,8		●					●			
TPUN 160308E	16,50	3,18	9,52	0,8		●								
TPUN 160308F	16,50	3,18	9,52	0,8	●									
TPUN 160312E	16,50	3,18	9,52	1,2		●					●			
TPUN 160312F	16,50	3,18	9,52	1,2	○									
TPUN 220408E	22,00	4,76	12,70	0,8		●					●			
TPUN 220408F	22,00	4,76	12,70	0,8	●									
TPUN 220412E	22,00	4,76	12,70	1,2		●					●			
TPUN 220412F	22,00	4,76	12,70	1,2	●									

Positive 11° clearance - Triangular insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

		l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10	
TPUX																
	TPUX 110304L	11,00	3,18	6,35	0,4	○	●					●				
	TPUX 110304R	11,00	3,18	6,35	0,4	○	●					●				
	TPUX 160304L	16,50	3,18	9,52	0,4	○	●					●				
	TPUX 160304R	16,50	3,18	9,52	0,4	○	●					●				
	TPUX 160308L	16,50	3,18	9,52	0,8	○	●					●				
	TPUX 160308R	16,50	3,18	9,52	0,8	○	●					●				
	TPUX 220408L	22,00	4,76	12,70	0,8	○	○									
	TPUX 220408R	22,00	4,76	12,70	0,8	○	○									

Positive 7° clearance - 35° rhombic insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
VCGT-AL															
	VCGT 160404-AL	16,50	4,76	9,52	0,4	●									○
	VCGT 160408-AL	16,50	4,76	9,52	0,8	●									○
	VCGT 160412-AL	16,50	4,76	9,52	1,2	●									○

Positive 7° clearance - 35° rhombic insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
VCGT-AL															
	VCGT 220530-AL	22,10	5,56	12,70	3,0	●									○

Positive 7° clearance - 35° rhombic insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
VCGT-AP															
	VCGT 160404-AP	16,50	4,76	9,52	0,4	●									○
	VCGT 160408-AP	16,50	4,76	9,52	0,8	●									○
	VCGT 160412-AP	16,50	4,76	9,52	1,2	●									○

Positive 7° clearance - 35° rhombic insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

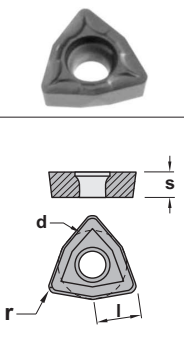
		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
VCGT-AP															
	VCGT 220530-AP	22,10	5,56	12,70	3,0	●									○

Positive 7° clearance - 80° Trigon insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

WCMT

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN32	TL20	TL40	ZR10
WCMT 030208	3,46	2,38	5,56	0,8							●		●	
WCMT 040208	3,99	2,38	6,35	0,8							●		●	
WCMT 050308	5,07	3,18	7,94	0,8							●		●	
WCMT 06T308	6,14	3,97	9,52	0,8							●		●	
WCMT 080408	8,14	4,76	12,70	0,8							●		●	

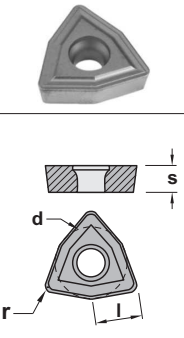


Positive 7° clearance - 80° Trigon insert.

Normally available for immediate delivery ●
Only available in a limited quantity ○

WCMX

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN32	TL20	TL40	ZR10
WCMX 030208	3,46	2,38	5,56	0,8							●		●	
WCMX 040208	3,99	2,38	6,35	0,8							●		●	
WCMX 050308	5,07	3,18	7,94	0,8							●		●	
WCMX 06T308	6,14	3,97	9,52	0,8							●		●	
WCMX 080408	8,14	4,76	12,70	0,8							●		●	
WCMX 080412	8,14	4,76	12,70	1,2							●		●	

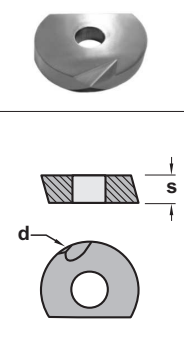


Positive 11° clearance - Round insert

Normally available for immediate delivery ●
Only available in a limited quantity ○

WPR

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
WPR 10	-	2,40	10,00	-								●	●	
WPR 12	-	2,50	12,00	-								●	●	
WPR 16	-	3,00	16,00	-								●	●	
WPR 20	-	3,00	20,00	-								●	●	
WPR 25	-	4,00	25,00	-								●	●	
WPR 32	-	5,00	32,00	-								●	●	

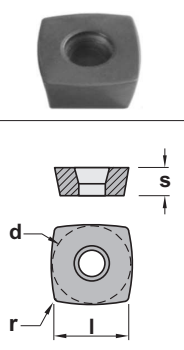


High feed

Normally available for immediate delivery ●
Only available in a limited quantity ○

XDKW

	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
XDKW 090430	9,00	4,76	9,00	0,8						●				
XDKW 120430	12,50	4,76	12,50	0,8						●				



Inserts
Face milling cutters
Square shoulder cutters
Slot cutters
Porcupine cutters
Specific applications and sets
Profile milling
Solid carbide
Drills
Boring heads
Arbors and adaptors