



# Inserts

CANELA Easy grade	A.02
Grades	A.03
Code key	A.06
Contents	A.08
Milling inserts	A.10

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

# CANELA Easy grade

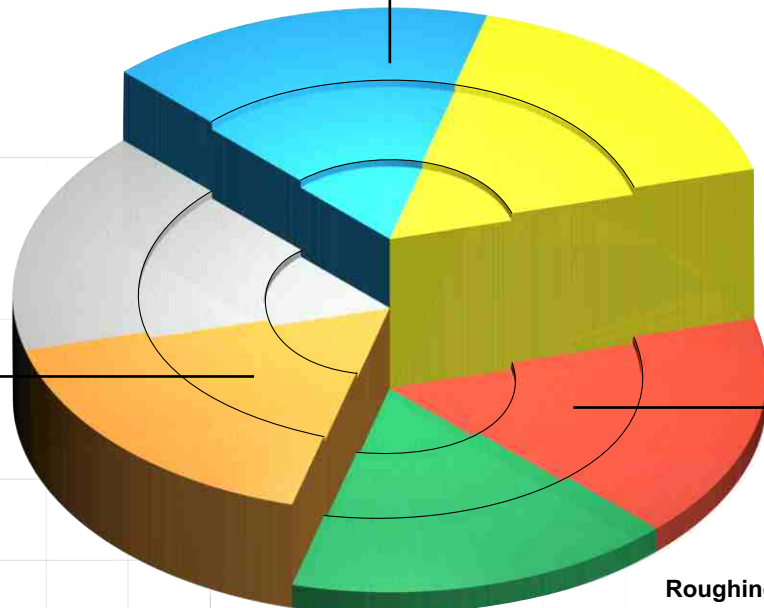
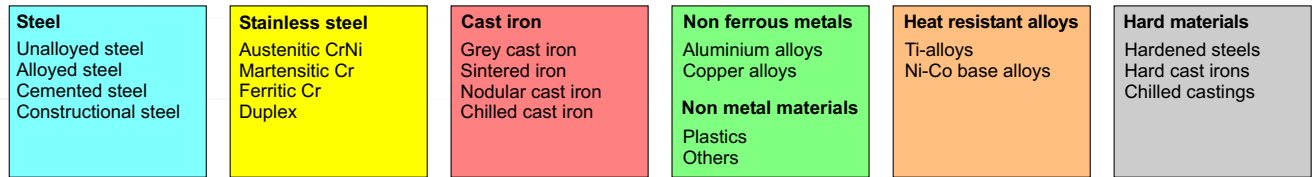
Three easy steps to choose a grade.

**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.

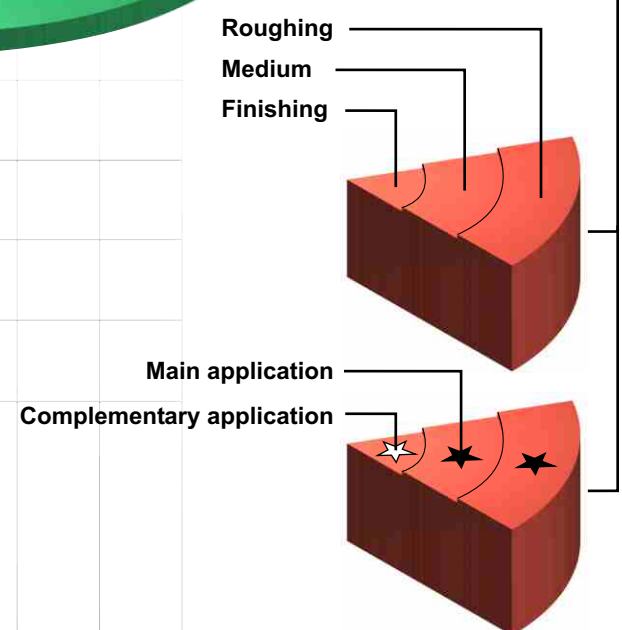
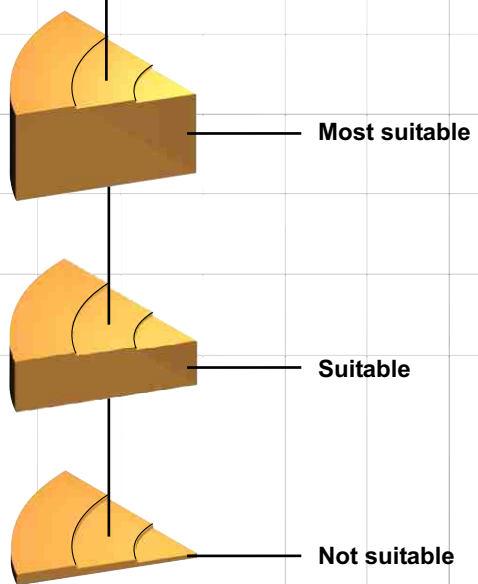
**3rd** - Select machining application. Each segment is divided into three sections, each section indicates the machining application type: roughing, medium, finishing. The main application area of each insert is indicated by a black star and the extended applications are indicated by a white star.

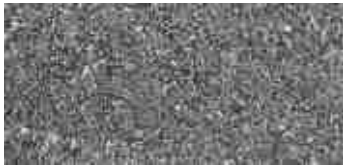
## 1st step



## 2nd step

## 3rd step



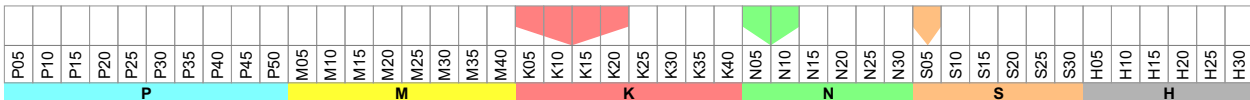


### KM 15

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

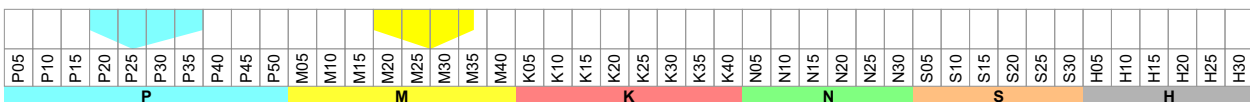


### PM 25

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

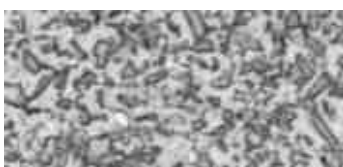
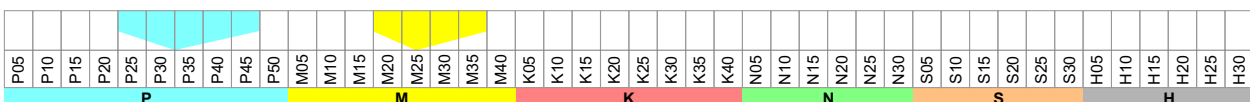


### PM 40

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

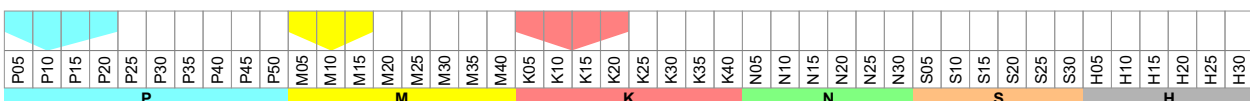


### NC 40

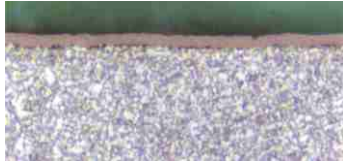
NC 40 is a newly developed Cermet applicable for a wide range of cutting conditions as a standard grade for general machining of steel. It can successfully be used for a range of cutting speeds from (100 to 200 m/min) with better wear resistance than conventional TiC Cermet. It gives an excellent performance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



P15 - M10 - K10

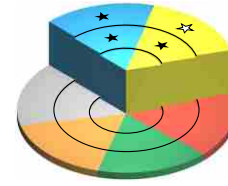


- Inserts
- Face milling cutters
- Square shoulder cutters
- Slot cutters
- Porcupine cutters
- Specific applications and sets
- Profile milling
- Solid carbide
- Drills
- Boring heads
- Arbors and adaptors



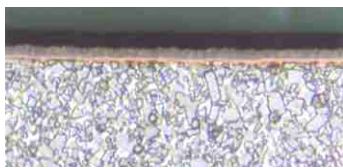
### TC30

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											K				N			S			H																



### TIN 21

Carbide coated grade with Tin-MT TiCN-Al<sub>2</sub>O<sub>3</sub> 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											K				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 whit 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											K				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

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											K				N			S			H																

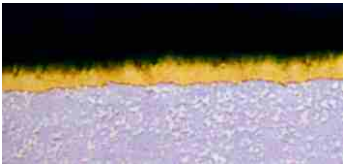
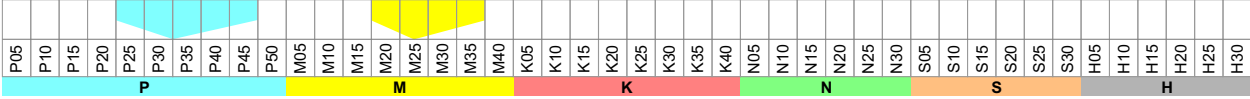


### TL40

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 (TiAl)N.



P40 - M30

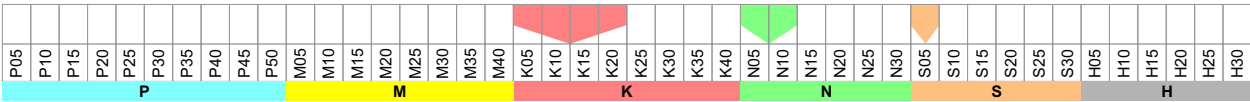


### ZR 10

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



K10



#### Grade chart



- Inserts
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- 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**

**X**

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

d	m	s
* 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

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	

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 $\chi_s$			
A	3°	F	25°
B	5°	G	30°
C	7°	N	0°
D	15°	P	11°
E	20°	Z	Special
Clearance angle $\alpha^\circ$			

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	
$\leq 1,2$	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

Inserts

Face milling cutters

Square shoulder cutters

Slot cutters

Perforating cutters

Specific applications and sets

Profile milling

Solid carbide

Drills

Boring heads

Arbors and adaptors

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
Cutting edge length (inch)	















































1/16	1
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
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
Corner radius (inch)	


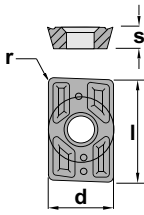
For special forms of the chip groove in the 10° position, manufacturer specific chip grooves and designations can be indicated.


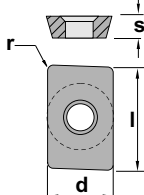



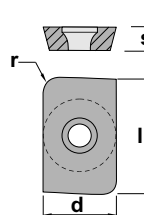
<p><b>ADMT</b></p>  <p>Rectangular Positive Page A.10 15°</p>	<p><b>ADMW</b></p>  <p>Rectangular Positive Page A.10 15°</p>	<p><b>ADMW-C</b></p>  <p>Rectangular Positive Page A.10 15°</p>	<p><b>ADMW-R</b></p>  <p>Rectangular Positive Page A.10 15°</p>	<p><b>APFT</b></p>  <p>Rectangular Positive Page A.10 11°</p>	<p><b>APHT-AL</b></p>  <p>Rectangular Positive Page A.11 11°</p>	<p><b>APKT</b></p>  <p>Rectangular Positive Page A.11 11°</p>
<p><b>APKT-26</b></p>  <p>Rectangular Positive Page A.11 11°</p>	<p><b>APLT</b></p>  <p>Rectangular Positive Page A.11 11°</p>	<p><b>APLX</b></p>  <p>Rectangular Positive Page A.11 11°</p>	<p><b>APMT</b></p>  <p>Rectangular Positive Page A.12 11°</p>	<p><b>APMT-26</b></p>  <p>Rectangular Positive Page A.12 11°</p>	<p><b>APMW</b></p>  <p>Rectangular Positive Page A.12 11°</p>	
<p><b>CCGT-AL</b></p>  <p>80° Rhombic Positive Page A.12 7°</p>	<p><b>CKKT</b></p>  <p>80° Rhombic Positive Page A.12 7°</p>	<p><b>CCMT-03</b></p>  <p>80° Rhombic Positive Page A.13 7°</p>	<p><b>CCMW</b></p>  <p>80° Rhombic Negative Page A.13 7°</p>			
<p><b>FRC</b></p>  <p>Single-ended insert Page A.13</p>	<p><b>FRCR</b></p>  <p>Single-ended insert Page A.13</p>					
<p><b>ODMT</b></p>  <p>Octagonal Positive Page A.14 15°</p>	<p><b>ODMW</b></p>  <p>Octagonal Positive Page A.14 15°</p>					
<p><b>RDHW</b></p>  <p>Round Positive Page A.15 15°</p>	<p><b>RDMT</b></p>  <p>Round Positive Page A.15 15°</p>	<p><b>RDMW</b></p>  <p>Round Positive Page A.15 15°</p>	<p><b>RPMT</b></p>  <p>Round Positive Page A.15 11°</p>	<p><b>RPMW</b></p>  <p>Round Positive Page A.15 11°</p>		
<p><b>SCGT-AL</b></p>  <p>Square Positive Page A.16 7°</p>	<p><b>SCMT-39</b></p>  <p>Square Positive Page A.16 7°</p>	<p><b>SCMW</b></p>  <p>Square Positive Page A.16 7°</p>	<p><b>SDMT</b></p>  <p>Square Positive Page A.16 15°</p>	<p><b>SEHT</b></p>  <p>Square Positive Page A.17 20°</p>	<p><b>SEHT-AL</b></p>  <p>Square Positive Page A.17 20°</p>	<p><b>SEHW</b></p>  <p>Square Positive Page A.17 20°</p>
<p><b>SEKN</b></p>  <p>Square Positive Page A.17 20°</p>	<p><b>SEKR</b></p>  <p>Square Positive Page A.17 20°</p>	<p><b>SFAN</b></p>  <p>Square Positive Page A.18 25°</p>	<p><b>SNHX</b></p>  <p>Square Negative Page A.18 0°</p>	<p><b>SNKN</b></p>  <p>Square Negative Page A.18 0°</p>	<p><b>SNUN</b></p>  <p>Square Negative Page A.18 0°</p>	<p><b>SOMT</b></p>  <p>Square Positive Page 1.18 7°</p>


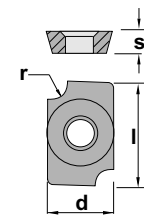
<p><b>SPKN</b></p>  <p>Square Positive Page A.19 </p>	<p><b>SPKR</b></p>  <p>Square Positive Page A.19 </p>	<p><b>SPMT</b></p>  <p>Square Positive Page A.19 </p>	<p><b>SPMW</b></p>  <p>Square Positive Page A.19 </p>	<p><b>SPUN</b></p>  <p>Square Positive Page A.19 </p>		
<p><b>TCGT-AL</b></p>  <p>Triangular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


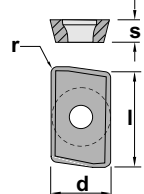
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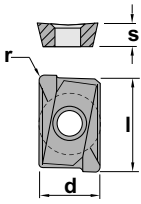
	Positive 15° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>ADMT</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>ADMT 150308</b>	15,00	3,18	9,52	0,8		●				●	●			
	<b>ADMT 1503PDER</b>	15,00	3,18	9,52	-		●					●			


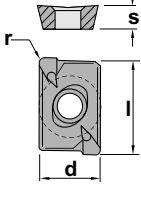
	Positive 15° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>ADMW</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>ADMW 150308E</b>	15,00	3,18	9,52	0,8		●				●	●		○	
	<b>ADMW 150308F</b>	15,00	3,18	9,52	0,8	●									○


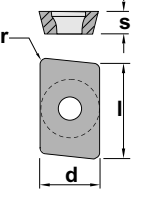
	Positive 15° clearance - Rectangular insert. Radius 1 mm to 5 mm.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>ADMW-C</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>ADMW 1503R1.0-C</b>	15,00	3,18	9,52	1,0							●			
	<b>ADMW 1503R1.5-C</b>	15,00	3,18	9,52	1,5							●			
	<b>ADMW 1503R2.0-C</b>	15,00	3,18	9,52	2,0							●			
	<b>ADMW 1503R2.5-C</b>	15,00	3,18	9,52	2,5							●			
	<b>ADMW 1503R3.0-C</b>	15,00	3,18	9,52	3,0							●			
	<b>ADMW 1503R3.5-C</b>	15,00	3,18	9,52	3,5							●			
	<b>ADMW 1503R4.0-C</b>	15,00	3,18	9,52	4,0							●			
	<b>ADMW 1503R4.5-C</b>	15,00	3,18	9,52	4,5							●			
	<b>ADMW 1503R5.0-C</b>	15,00	3,18	9,52	5,0							●			
	<b>ADMW 1503R6.0-C</b>	15,00	3,18	9,52	6,0							●			


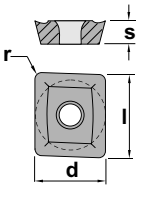
	Positive 15° clearance - Rectangular insert. Radius 1 mm to 5 mm.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>ADMW-R</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>ADMW 1503R1.0</b>	15,00	3,18	9,52	1,0							●			
	<b>ADMW 1503R1.5</b>	15,00	3,18	9,52	1,5							●			
	<b>ADMW 1503R2.0</b>	15,00	3,18	9,52	2,0							●			
	<b>ADMW 1503R2.5</b>	15,00	3,18	9,52	2,5							●			
	<b>ADMW 1503R3.0</b>	15,00	3,18	9,52	3,0							●			
	<b>ADMW 1503R3.5</b>	15,00	3,18	9,52	3,5							●			
	<b>ADMW 1503R4.0</b>	15,00	3,18	9,52	4,0							●			
	<b>ADMW 1503R4.5</b>	15,00	3,18	9,52	4,5							●			
	<b>ADMW 1503R5.0</b>	15,00	3,18	9,52	5,0							●			


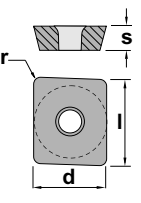
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>APFT</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>APFT 1604PDTR</b>	16,00	4,76	9,52	-		●					●			

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


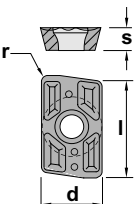
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○													
	<b>APKT</b>					<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>APKT 1003PDTR</b>					9,52	3,18	6,35	0,4		●				●	●			
	<b>APKT 1604PDR</b>					16,00	4,76	9,52	0,8		●				●	●			


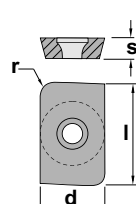
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○													
	<b>APKT-26</b>					<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC20</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>
	<b>APKT 160408E-26</b>					16,66	4,76	9,52	0,8							●	●		


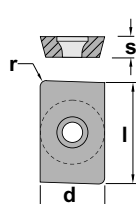
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○													
	<b>APLT</b>					<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>APLT 1504ZZR</b>					15,87	4,76	12,70	0,8		●					●			


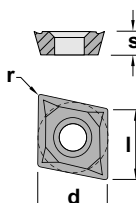
	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○													
	<b>APLX</b>					<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>APLX 1504ZZR</b>					15,87	4,76	12,70	0,8	○	●					●			


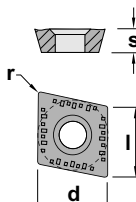
- Inserts
- Face milling cutters
- Square shoulder cutters
- Slot cutters
- Porcupine cutters
- Specific applications and sets
- Profile milling
- Solid carbide
- Drills
- Boring heads
- Arbors and adaptors

	Positive 11° clearance - Rectangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<h2>APMT</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<h2>APMT-26</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<h2>APMW</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<h2>CCGT-AL</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<h2>CCKT</h2>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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
<b>CCMT 060202-03</b>	6,45	2,38	6,35	0,2		●								
<b>CCMT 060204-03</b>	6,45	2,38	6,35	0,4	●	●								
<b>CCMT 080304-03</b>	8,05	3,18	7,94	0,4	●	●					●			
<b>CCMT 080308-03</b>	8,05	3,18	7,94	0,8							●			
<b>CCMT 09T304-03</b>	9,65	3,97	9,52	0,4	●	●					●			
<b>CCMT 09T308-03</b>	9,65	3,97	9,52	0,8	●	●					●			
<b>CCMT 120408-03</b>	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
<b>CCMW 060202</b>	6,45	2,38	6,35	0,2		●					○			
<b>CCMW 060204</b>	6,45	2,38	6,35	0,4		●					○			
<b>CCMW 080304</b>	8,05	3,18	7,94	0,4		●					○			
<b>CCMW 09T304</b>	9,65	3,97	9,52	0,4		●					○			
<b>CCMW 09T308</b>	9,65	3,97	9,52	0,8		●					○			
<b>CCMW 120408</b>	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
<b>FRC 1.6</b>	-	1,60	-	0,15							●		●	
<b>FRC 2.2</b>	-	2,20	-	0,20							●		●	
<b>FRC 3.0</b>	-	3,00	-	0,20							●		●	
<b>FRC 4.0</b>	-	4,00	-	0,20							●		●	
<b>FRC 5.0</b>	-	5,00	-	0,30							●		●	
<b>FRC 6.0</b>	-	6,00	-	0,30							●		●	

Round slot cutter insert Normally available for immediate delivery ●  
Only available in a limited quantity ○

### FRCR


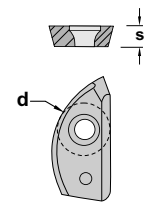
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
<b>FRCR 3.0</b>	-	3,00	-	1,50							●		●	
<b>FRCR 4.0</b>	-	4,00	-	2,00							●		●	
<b>FRCR 5.0</b>	-	5,00	-	2,50							●		●	
<b>FRCR 6.0</b>	-	6,00	-	3,00							●		●	


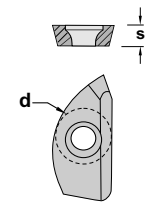
Positive 11° clearance - Round insert Normally available for immediate delivery ●  
Only available in a limited quantity ○


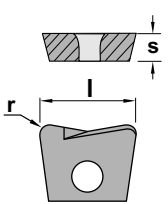
### HPR


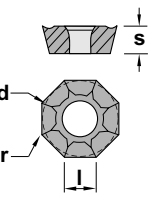
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
<b>HPR 10</b>	-	2,50	10,00	-								●		
<b>HPR 12</b>	-	2,50	12,00	-								●		
<b>HPR 16</b>	-	3,00	16,00	-								●		
<b>HPR 20</b>	-	3,00	20,00	-								●		
<b>HPR 25</b>	-	4,00	25,00	-								●		
<b>HPR 32</b>	-	5,00	32,00	-								●		


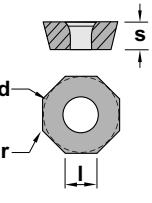
- Inserts
- Face milling cutters
- Square shoulder cutters
- Slot cutters
- Porcupine cutters
- Specific applications and sets
- Profile milling
- Solid carbide
- Drills
- Boring heads
- Arbors and adaptors

	Positive ball nose insert					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>INT</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<b>INW</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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 ○									
	<b>MTK</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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								●		

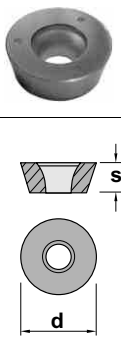
	Positive 15° clearance - Octagonal insert. Multipurpose milling insert developed for both finishing and roughing operations, helping to rationalise tooling cost.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>ODMT</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r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

	Positive 15° clearance - Octagonal insert. Multipurpose milling insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>ODMW</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	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
<b>RDHW 0702M0</b>	-	2,38	7,00	-								●	●	
<b>RDHW 1003M0</b>	-	3,18	10,00	-								●	●	
<b>RDHW 12T3M0</b>	-	3,97	12,00	-								●	●	
<b>RDHW 1604M0</b>	-	4,76	16,00	-								●	●	
<b>RDHW 2006M0</b>	-	6,35	20,00	-								●	●	



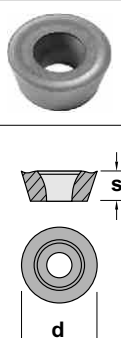
Inserts

Face milling cutters

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
<b>RDMT 10T3M0</b>	-	3,97	10,00	-										●
<b>RDMT 1204M0</b>	-	4,76	12,00	-		●					●			
<b>RDMT 12T3M0</b>	-	3,97	12,00	-										●
<b>RDMT 1604M0</b>	-	4,76	16,00	-										●



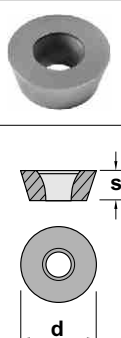
Square shoulder cutters

Slot cutters

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
<b>RDMW 0702M0</b>	-	2,38	7,00	-								●	●	
<b>RDMW 1003M0</b>	-	3,18	10,00	-								●	●	
<b>RDMW 12T3M0</b>	-	3,97	12,00	-								●	●	
<b>RDMW 1204M0</b>	-	4,76	12,00	-		●					●			
<b>RDMW 1604M0</b>	-	4,76	16,00	-								●	●	
<b>RDMW 2006M0</b>	-	6,35	20,00	-								●	●	



Porcupine cutters

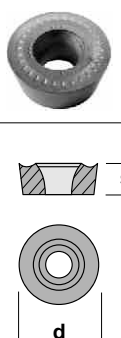
Specific applications and sets

Profile milling

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
<b>RPMT 120400-39</b>	-	4,76	12,70	-		●					●			
<b>RPMT 1204M0</b>	-	4,76	12,00	-		●				●	●		●	



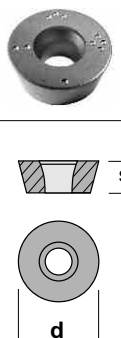
Solid carbide

Drills

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
<b>RPMW 0802M0</b>	-	2,38	8,00	-		●					●		●	
<b>RPMW 1003M0</b>	-	3,18	10,00	-		●					●		●	
<b>RPMW 1204M0</b>	-	4,76	12,00	-	●						●		●	
<b>RPMW 1204M0T</b>	-	4,76	12,00	-		●				●	●		●	



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	TL10	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 ○


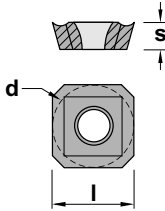
### SCMW


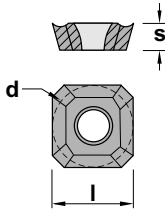
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SCMW 09T308	9,52	3,97	9,52	0,8		●					○			
SCMW 120408	12,70	4,76	12,70	0,8	○	○					○			
SCMW 120412	12,70	4,76	12,70	1,2		○					○			


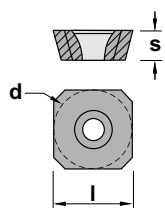
Positive 15° clearance - Square insert. Reduces costs in facing square shoulder applications due to its four effective cutting edges. Normally available for immediate delivery ●  
Only available in a limited quantity ○


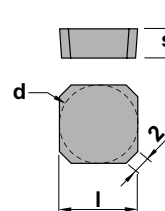
### SDMT


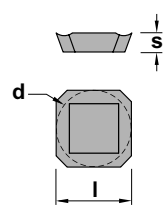
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
SDMT 12T308	13,29	3,97	13,29	0,8						●	●		●	

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

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

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

	Positive 20° clearance - Square insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>SEKN</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>SEKN 1203AFEN-3A</b> <b>SEKN 1203AFSN-3D</b> <b>SEKN 1204AFEN-3A</b> <b>SEKN 1204AFSN-3D</b> <b>SEKN 1504AFEN-4A</b> <b>SEKN 1504AFSN-4D</b>	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 ○									
	<b>SEKR</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>SEKR 1203AFTN-94</b>	12,70	3,18	12,70	-							●	●		

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

Positive 25° clearance - Square 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
<b>SFAN</b>														
SFAN 1203EFL	12,70	3,18	12,70	-	○									
SFAN 1203EFR	12,70	3,18	12,70	-	●									

Negative square 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
<b>SNHX</b>														
SNHX 1102XX	11,00	2,38	11,00	-		●					●		●	
SNHX 1103XX	11,00	2,70	11,00	-		●					●		●	
SNHX 1203XX	12,70	3,18	12,70	-		●					●		●	
SNHX 12045XX	12,70	4,50	12,70	-		●					●		●	
SNHX 1205XX	12,70	5,40	12,70	-		●					●		●	
SNHX 1207XX	12,70	7,00	12,70	-		●					●		●	

Negative square 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
<b>SNKN</b>														
SNKN 1204ENN	12,70	4,76	12,70	-	○	●								

Negative square 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
<b>SNUN</b>														
SNUN 120408E	12,70	4,76	12,70	0,8		●								
SNUN 120408F	12,70	4,76	12,70	0,8	○									
SNUN 120412E	12,70	4,76	12,70	1,2		●								

Positive 7° clearance - Square 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
<b>SOMT</b>														
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	TL20	TL40	ZR10
<b>SPKN 1203EDER-3A</b>	12,70	3,18	12,70	-	●									
<b>SPKN 1203EDSR-3C</b>	12,70	3,18	12,70	-		●				●	●		●	
<b>SPKN 1504EDSR-2F</b>	15,88	4,76	15,88	-		●					●		●	

Inserts

Face milling cutters

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	TL20	TL40	ZR10
<b>SPKR 1203EDSR</b>	12,70	3,18	12,70	-							●		●	

Square shoulder cutters

Slot cutters

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
<b>SPMT 060304</b>	6,35	3,18	6,35	0,4							●		●	
<b>SPMT 070308</b>	7,94	3,18	7,94	0,8							●		●	
<b>SPMT 090308</b>	9,52	3,18	9,52	0,8							●		●	
<b>SPMT 120408</b>	12,70	4,76	12,70	0,8							●		●	

Porcupine cutters

Specific applications and sets

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
<b>SPMW 120408</b>	12,70	4,76	12,70	0,8	○	●					●		●	

Profile milling

Solid carbide

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


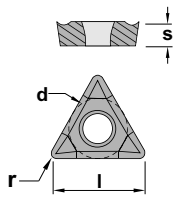
### SPUN


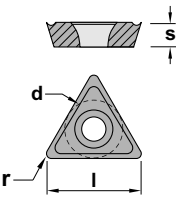
	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TIN21	TIN25	TL20	TL40	ZR10
<b>SPUN 090304E</b>	9,52	3,18	9,52	0,4		○					○			
<b>SPUN 090308E</b>	9,52	3,18	9,52	0,8		●					●			
<b>SPUN 090308F</b>	9,52	3,18	9,52	0,8	○									
<b>SPUN 120304E</b>	12,70	3,18	12,70	0,4		●					●			
<b>SPUN 120308E</b>	12,70	3,18	12,70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


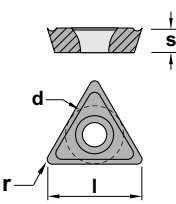
Drills


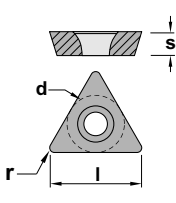
Boring heads


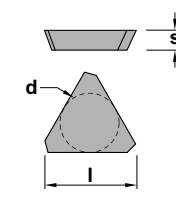
Arbors and adaptors

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

	Positive 7° clearance - Triangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>TCMT-03</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>TCMT 090204-03</b>	9,62	2,38	5,55	0,4	○									
	<b>TCMT 110204-03</b>	11,00	2,38	6,35	0,4	●	●					●			
	<b>TCMT 16T304-03</b>	16,50	3,97	9,52	0,4	○	●								
	<b>TCMT 16T308-03</b>	16,50	3,97	9,52	0,8	●	●								
	<b>TCMT 220408-03</b>	22,00	4,76	12,70	0,8		○								
	<b>TCMT 220412-03</b>	22,00	4,76	12,70	1,2		○								

	Positive 7° clearance - Triangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>TCMT-39</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>TCMT 16T308-39</b>	16,50	3,97	9,52	0,8		●					●		●	
	<b>TCMT 16T312-39</b>	16,50	3,97	9,52	1,2		●					●			

	Positive 7° clearance - Triangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>TCMW</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>TCMW 110204</b>	11,00	2,38	6,35	0,4	○	●								○
	<b>TCMW 16T304</b>	16,50	3,97	9,52	0,4	●	●								○
	<b>TCMW 16T308</b>	16,50	3,97	9,52	0,8	●	●								○

	Positive 20° clearance - Triangular insert.					Normally available for immediate delivery ● Only available in a limited quantity ○									
	<b>TEKN</b>	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	<b>KM15</b>	<b>PM25</b>	<b>PM40</b>	<b>NC40</b>	<b>TC30</b>	<b>TIN21</b>	<b>TIN25</b>	<b>TL20</b>	<b>TL40</b>	<b>ZR10</b>
	<b>TEKN 1603PETR</b>	16,50	3,18	9,52	-	○	●					○			
	<b>TEKN 2204PETR</b>	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.


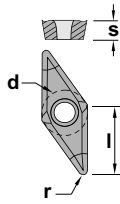
Normally available for immediate delivery ●  
Only available in a limited quantity ○

TPUX	l	s	d	r	KM15	PM25	PM40	NC40	TC30	TiN21	TiN25	TL20	TL40	ZR10
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	○	○								

- Inserts
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- Boring heads
- Arbors and adaptors


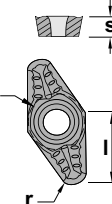
Positive 7° clearance - 35° rhombic insert.

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

<b>VCGT-AL</b>		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
															
															
	<b>VCGT 160404-AL</b>	16,50	4,76	9,52	0,4	●									○
	<b>VCGT 160408-AL</b>	16,50	4,76	9,52	0,8	●									○
	<b>VCGT 160412-AL</b>	16,50	4,76	9,52	1,2	●									○
	<b>VCGT 220530-AL</b>	22,10	5,56	12,70	3,0	●									○


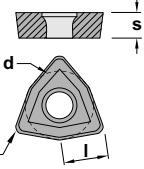
Positive 7° clearance - 35° rhombic insert.

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

<b>VCGT-AP</b>		l	s	d	r	KM15	PM25	PM40	NC25	TIN16	TIN17	TIN22	TIN32	TIN35	ZR10
															
															
	<b>VCGT 160404-AP</b>	16,50	4,76	9,52	0,4	●									○
	<b>VCGT 160408-AP</b>	16,50	4,76	9,52	0,8	●									○
	<b>VCGT 160412-AP</b>	16,50	4,76	9,52	1,2	●									○
	<b>VCGT 220530-AP</b>	22,10	5,56	12,70	3,0	●									○


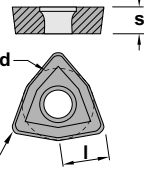
Positive 7° clearance - 80° Trigon insert.

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

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


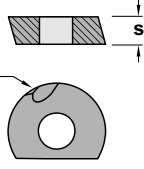
Positive 7° clearance - 80° Trigon insert.


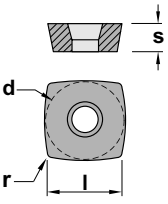
Normally available for immediate delivery ●  
Only available in a limited quantity ○

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

Positive 11° clearance - Round insert

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

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

	High feed <span style="float: right;">Normally available for immediate delivery ● Only available in a limited quantity ○</span>													
	<h1 style="margin: 0;">XDKW</h1>													
	<b>l</b>	<b>s</b>	<b>d</b>	<b>r</b>	KM15	PM25	PM40	NC40	TC30	TiN21	TiN25	TL20	TL40	ZR10
	<b>XDKW 090430</b>	9,00	4,76	9,00	0,8						●			
<b>XDKW 120430</b>	12,50	4,76	12,50	0,8						●				

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