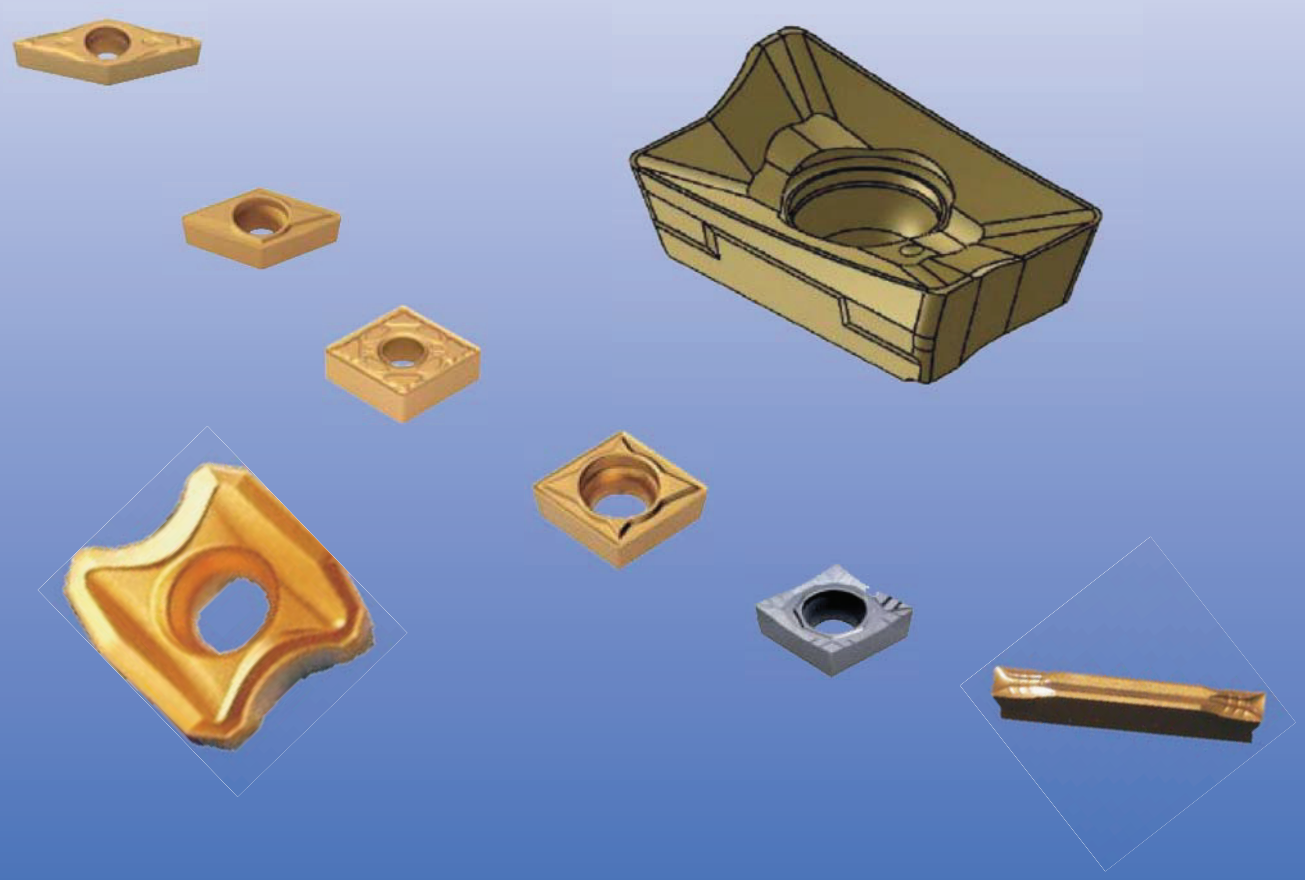
MAIER • Präzisionswerkzeuge GmbH

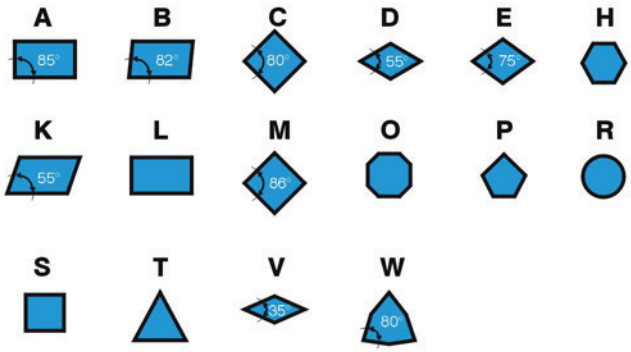
HEAD®-Master



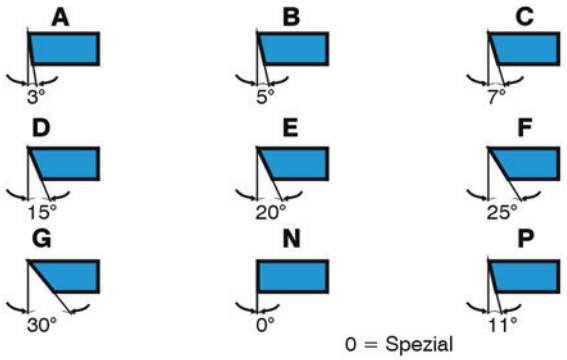
Wendeplatten
Inserts

C	N	M	G	12	04	08			
1	2	3	4	5	6	7	8	9	10

1. Form



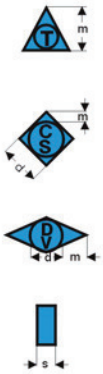
2. Freiwinkel



0 = Spezial

3. Toleranzen

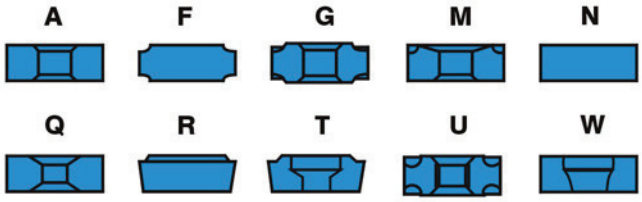
Zulässige Abweichung in mm für:



	d	m	S
A	±0,025	±0,005	±0,025
C	±0,025	±0,013	±0,025
E	±0,025	±0,025	±0,025
F	±0,013	±0,005	±0,025
G	±0,025	±0,025	±0,130
H	±0,013	±0,013	±0,025
J[1]	±0,05-0,15	±0,005	±0,025
K[1]	±0,05-0,15[2]	±0,013	±0,025
L[1]	±0,05-0 15[2]	±0,025	±0,025
M	±0,05-0,15[2]	±0,08-0,20[2]	±0,130
N	±0,05-0,15[2]	±0,08-0,20[2]	±0,025
U	±0,08-0,25[2]	±0,13-0,38[2]	±0,130

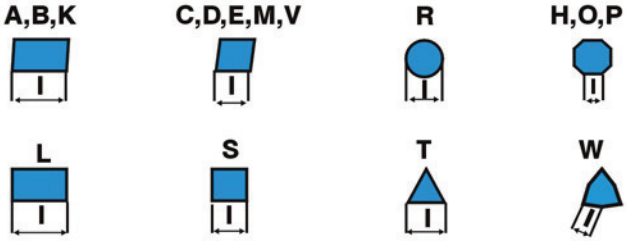
[1] Platten mit geschliffenen Planschneiden
[2] je nach Plattengröße
(siehe ISO-Norm 1832)

4. Wendeschneidplattentyp

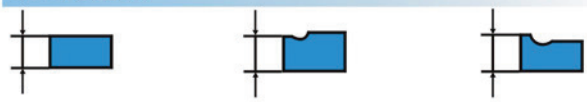


X = Spezial

5. Schneidkantenlänge



6. Dicke s



01 = 1,59 mm
T1 = 1,98 mm
02 = 2,38 mm
03 = 3,18 mm

T3 = 3,97 mm
04 = 4,76 mm
05 = 5,56 mm
06 = 6,35 mm

07 = 7,94 mm
08 = 8,00 mm
09 = 9,52 mm

7. Wendeschneidpl. m. Eckradius

M0* = runde Schneidkante
00 = scharfe Ecken
01 = 0,1
02 = 0,2
04 = 0,4
08 = 0,8
12 = 1,2 etc.

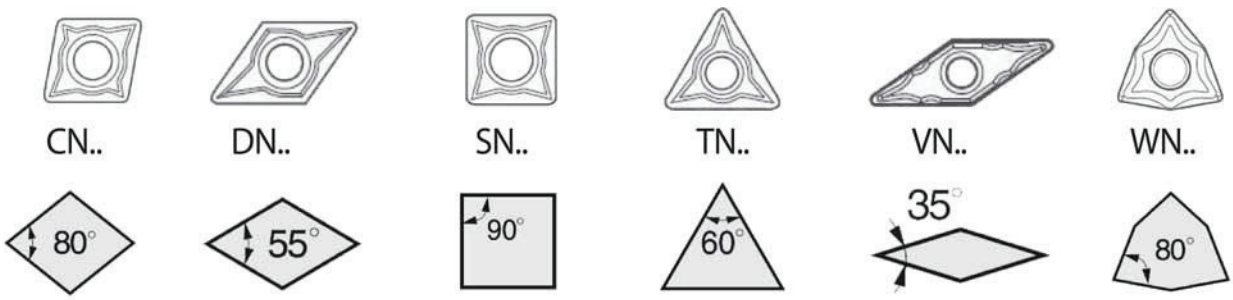
Millimeterausführung

- **P** unlegierte & legierte Stähle / unaloyed & aloyed steel
- **M** Rostfreie Stähle / Stainless steel
- **K** Guss / Cast iron
- **N** Aluminium - Nichteisenmetalle / Aluminium alloys
- **S** Inconel, Nimonic, Stellite, Ti-Legierungen

Technische Daten / Technical Informations

Geometrie Geometry	Anwendung Features	Anwendungsbereich / Application range Vorschub / feed rate (mm/rev): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 Schnitttiefe / depth of cut (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 13	Schnittgeschwindigkeit (m/min) Cutting speed (m/min)
WF	Schlichtbearbeitung Finishing	0.05~0.35 0.5~2.0	P 110-220 m/min M 120-250 m/min K N S
WFF	Schlichtbearbeitung Finishing	0.05~0.35 0.5~2.0	P 110-220 m/min M 120-250 m/min K N S
WM	Mittlere Bearbeitung Medium cutting	0.1~0.5 1.0~5.0	P 200-270 m/min M 120-250 m/min K 200-550 m/min N S 30-80 m/min
WMM	Mittlere Bearbeitung Medium cutting	0.1~0.5 1.0~5.0	P 200-270 m/min M 120-250 m/min K 200-550 m/min N S 30-80 m/min
WGF	Mittlere Schlichtbearbeitung Medium finishing	0.10~0.40 0.50~4.5	P M 120-250 m/min K N S 50-60 m/min
WGM	Mittlere Bearbeitung Medium machining	0.12~0.5 0.50~5.0	P M 120-280 m/min K N S 50-60 m/min
VA	Mittlere Bearbeitung Medium machining	0.12~0.5 0.50~5.0	P M 120-280 m/min K N S 50-60 m/min
XM	Mittlere Bearbeitung Medium cutting	0.1~0.35 1.0~3.0	P 200-270 m/min M 120-250 m/min K 150-550 m/min N S 30-80 m/min
WR	Schruppbearbeitung Roughing	0.25~0.65 2.5~7.0	P 100-170 m/min M K 200-550 m/min N S
ALU	Mittlere Alu-Bearbeitung Medium Aluminum cutting	0.03~0.4 0.1~5.0	P M K N 500-1000m/min S

Wendeplattengeometrieen sind für folgende Wendeplattentypen verfügbar:
Insert geometry are for following insert types available:



Notiz: Anwendungsbereiche sind auf Hauptschneidenmaterial basierend
Notice : Application ranges are based on main cutting material

Technische Daten / Technical Informations

Geometrie Geometry	Anwendung Features	Anwendungsbereich / Application range Vorschub / feed rate (mm/rev): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 Schnitttiefe / depth of cut (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 13	Schnittgeschwindigkeit (m/min) Cutting speed (m/min)
WF	Schlichtbearbeitung Finishing	0.05~0.25 0.1~1.5	P 230-240 m/min M 250-280 m/min K N S 30-80 m/min
WFF	Schlichtbearbeitung Finishing	0.05~0.25 0.1~1.5	P 230-240 m/min M 250-280 m/min K N S 30-80 m/min
WM	Mittlere Bearbeitung Medium cutting	0.1~0.5 0.5~3.5	P 200-260 m/min M 150-260 m/min K 200-250 m/min N S 30-80 m/min
WMM	Mittlere Bearbeitung Medium cutting	0.1~0.5 0.5~3.5	P 200-260 m/min M 150-260 m/min K 200-250 m/min N S 30-80 m/min
XM	Mittlere Bearbeitung Medium cutting	0.1~0.40 1.0~3.5	P 180-250 m/min M 130-250 m/min K 200-250 m/min N S 30-80 m/min
ALU-M	Mittlere Alu-Bearbeitung Medium Aluminum cutting	0.03~0.4 0.1~4.0	P M K N 500-1000m/min S
ALU-R	Schrupp Alu-Bearbeitung Roughing Aluminum cutting	0.05~0.5 0.5~4.0	P M K N 500-1000m/min S

Wendeplattengeometrieen sind für folgende Wendeplattentypen verfügbar:
Insert geometry are for following insert types available:

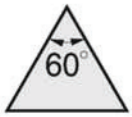
CC..

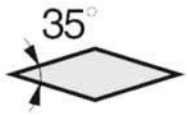
DC..

SC..

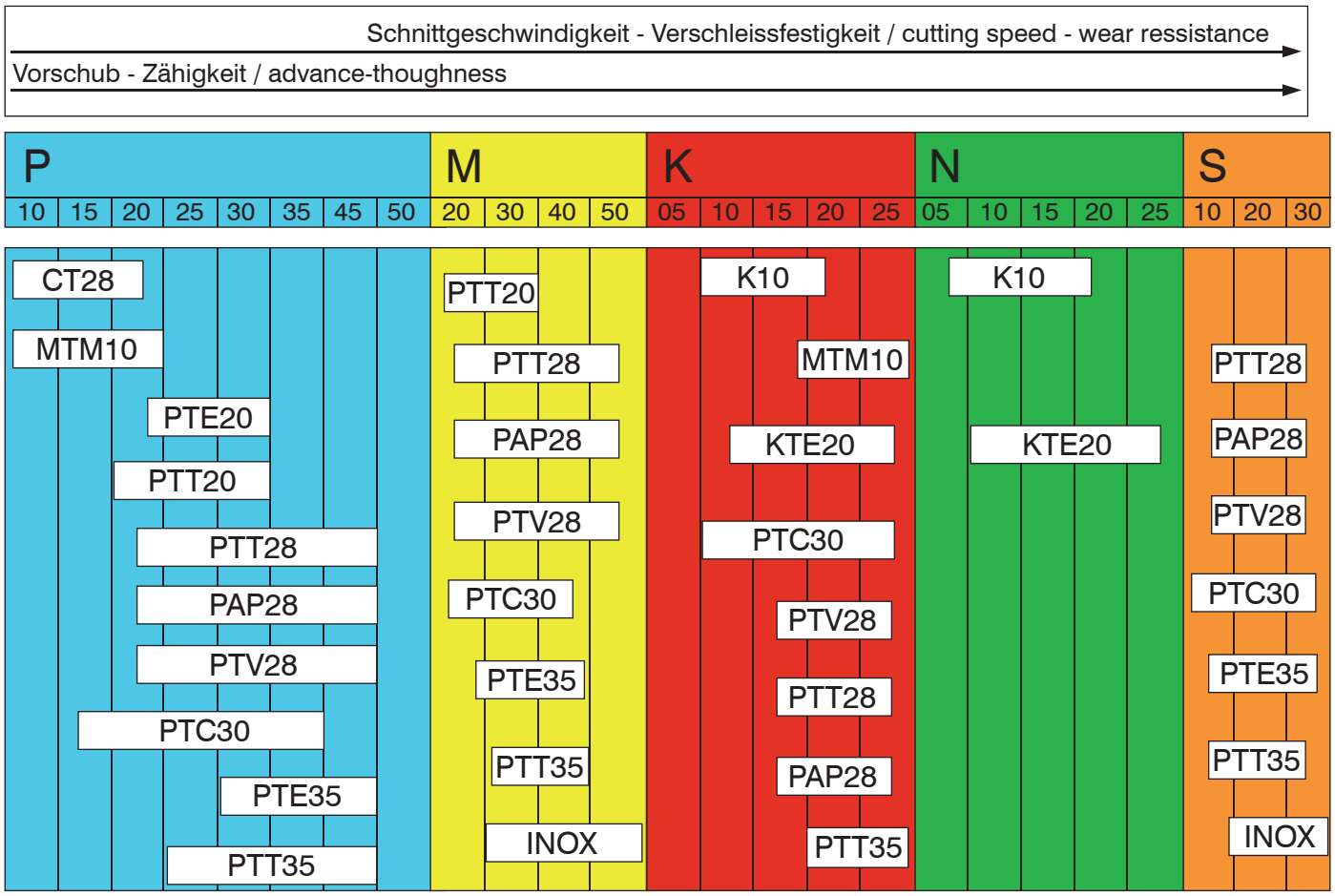
TC..

VC..





Notiz: Anwendungsbereiche sind auf Hauptschneidenmaterial basierend
Notice: Application ranges are based on main cutting material



P CT28, MTM10, PTE20, PTV28, PTE35, PTC30, PTT20, PTT28, PAP28, PTT35

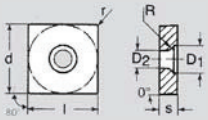
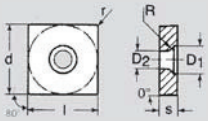
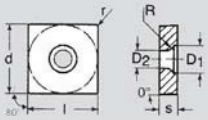
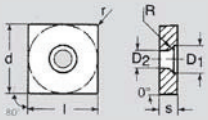
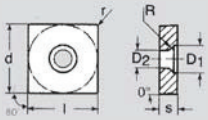
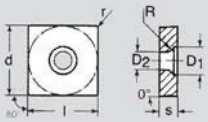
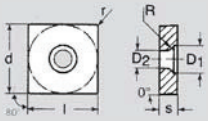
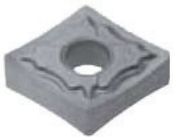
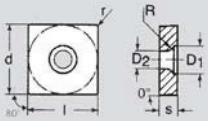
M PTV28, PTC30, PTT20, PTT28, PAP28, PTT35, INOX

K GG: K10, KTE20, MTM10
GGG: PTV28, PTC30, PTT28, PAP28, PTT35

N K10, KTE20

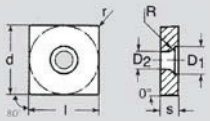
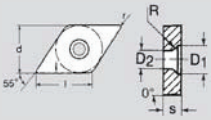
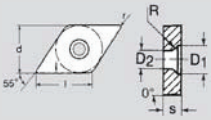
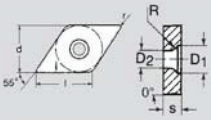
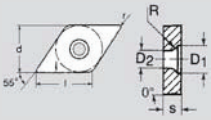
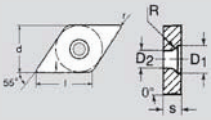
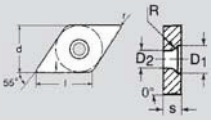
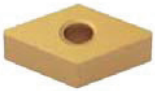
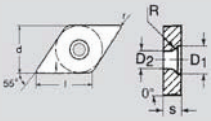
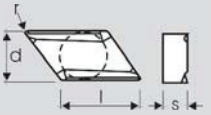
S PTV28, PTE35, PTC30, PTT28, PAP28, PTT35, INOX

CT28	Cermet unbeschichtet / uncoated
K10	unbeschichtet / uncoated
KTE20	TiAlN-beschichtet / TiAlN-coated
MTM10	Aluminiumoxydbeschichtet / aluminiumoxydcoated
PTE20	TiAlN-beschichtet / TiAlN-coated
PTV28	TiAlN-beschichtet / TiAlN-coated
PTE35	TiAlN-beschichtet / TiAlN-coated
💧 PTC30	TiAlN-beschichtet / TiAlN-coated
💧 INOX	ALTIN-beschichtet / ALTIN-coated
PTT20	Aluminiumoxydbeschichtet / aluminiumoxydcoated
PTT28	Aluminiumoxydbeschichtet / aluminiumoxydcoated
💧 PAP28	TiAlN/TiSiN-beschichtet / TiAlN/TiSiN-coated
PTT35	Aluminiumoxydbeschichtet / aluminiumoxydcoated
💧	für Naßbearbeitung geeignet / for wetworking suitably

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
CNGG .. VA		12,60	12,70	4,76		0,2	CNGG 120402 VA									■			
		12,40	12,70	4,76		0,4	CNGG 120404 VA									■			
		12,00	12,70	4,76		0,8	CNGG 120408 VA									■			
CNMG .. WF		9,20	9,52	3,18		0,4	CNMG 090304 WF				■						■		■
		8,80	9,52	3,18		0,8	CNMG 090308 WF				■								■
		12,40	12,70	4,76		0,4	CNMG 120404 WF				■								■
		12,00	12,70	4,76		0,8	CNMG 120408 WF				■								■
CNMG .. WM		9,20	9,52	3,18		0,4	CNMG 090304 WM										■		■
		8,80	9,52	3,18		0,8	CNMG 090308 WM	■									■		■
		12,40	12,70	4,76		0,4	CNMG 120404 WM	■			■						■		■
		12,00	12,70	4,76		0,8	CNMG 120408 WM	■			■						■		■
		11,60	12,70	4,76		1,2	CNMG 120412 WM				■						■		■
		11,20	12,70	4,76		1,6	CNMG 120416 WM				■						■		■
		15,30	15,90	6,35		0,8	CNMG 160608 WM										■		
		14,80	15,90	6,35		1,2	CNMG 160612 WM										■		■
CNMG .. XM		12,40	12,70	4,76		0,4	CNMG 120404 XM	■		■	■						■		■
		12,00	12,70	4,76		0,8	CNMG 120408 XM	■		■	■					■	■		■
		11,60	12,70	4,76		1,2	CNMG 120412 XM			■	■						■		■
		15,30	15,90	6,35		0,8	CNMG 160608 XM				■								■
		14,80	15,90	6,35		1,2	CNMG 160612 XM										■		
		18,90	19,05	6,35		0,4	CNMG 190604 XM										■		■
		18,50	19,05	6,35		0,8	CNMG 190608 XM			■	■						■		■
		18,10	19,05	6,35		1,2	CNMG 190612 XM			■	■					■	■		■
		17,70	19,05	6,35		1,6	CNMG 190616 XM										■		■
CNMG .. WGF		12,40	12,70	4,76		0,4	CNMG 120404 WGF								■		■		
		12,00	12,70	4,76		0,8	CNMG 120408 WGF								■		■		
CNMG .. WGM		12,40	12,70	4,76		0,4	CNMG 120404 WGM								■		■		
		12,00	12,70	4,76		0,8	CNMG 120408 WGM								■		■		
		11,60	12,70	4,76		1,2	CNMG 120412 WGM								■		■		
CNMG .. WR		12,00	12,70	4,76		0,8	CNMG 120408 WR			■	■						■		■
		11,60	12,70	4,76		1,2	CNMG 120412 WR			■	■						■		■
		11,20	12,70	4,76		1,6	CNMG 120416 WR			■	■								
		15,30	15,90	6,35		0,8	CNMG 160608 WR			■	■						■		■
		14,80	15,90	6,35		1,2	CNMG 160612 WR			■	■						■		■
		14,40	15,90	6,35		1,2	CNMG 160616 WR										■		■
		18,50	19,05	6,35		0,8	CNMG 190608 WR			■	■						■		■
		18,10	19,05	6,35		1,2	CNMG 190612 WR			■	■						■		■
		17,70	19,05	6,35		1,6	CNMG 190616 WR				■						■		■
		23,3	25,40	9,52		2,4	CNMG 250924 WR				■								■
 CNMG .. ALU		12,40	12,70	4,76		0,4	CNMG 120404 ALU		■	■									
		12,00	12,70	4,76		0,8	CNMG 120408 ALU		■	■									

■ auf Lager on stock □ auf Anfrage on request

Drehen negativ
Turning negativ

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
CNMM .. WR		12,00	12,70	4,76		0,8	CNMM 120408 WR										■		■
		11,60	12,70	4,76		1,2	CNMM 120412 WR										■		■
		14,80	15,90	6,35		0,8	CNMM 160612 WR												■
		18,50	19,05	6,35		0,8	CNMM 190608 WR												■
		18,10	19,05	6,35		1,2	CNMM 190612 WR				■						■		■
		17,70	19,05	6,35		1,6	CNMM 190616 WR				■						■		■
		16,80	19,05	6,35		2,4	CNMM 190624 WR				■						■		■
		23,3	25,40	7,94		2,4	CNMM 250724 WR				■						■		■
		23,3	25,40	9,52		2,4	CNMM 250924 WR				■						■		■
DNMG .. WF		11,20	9,52	4,76		0,4	DNMG 110404 WF										■		■
		15,10	12,70	4,76		0,4	DNMG 150404 WF										■		
		14,70	12,70	4,76		0,8	DNMG 150408 WF										■		
		15,10	12,70	6,35		0,4	DNMG 150604 WF				■						■		■
		14,70	12,70	6,35		0,8	DNMG 150608 WF				■								■
		14,40	12,70	6,35		1,2	DNMG 150612 WF										■		
DNGG .. VA		15,10	12,70	4,76		0,4	DNGG 150404 VA									■			
		14,70	12,70	4,76		0,8	DNGG 150408 VA									■			
		15,10	12,70	6,35		0,4	DNGG 150604 VA									■			
		14,70	12,70	6,35		0,8	DNGG 150608 VA									■			
DNMG .. WM		11,20	9,52	4,76		0,4	DNMG 110404 WM	■			■						■		■
		10,80	9,52	4,76		0,8	DNMG 110408 WM				■						■		■
		15,10	12,70	4,76		0,4	DNMG 150404 WM				■						■		■
		14,70	12,70	4,76		0,8	DNMG 150408 WM	■			■						■		■
		15,10	12,70	6,35		0,4	DNMG 150604 WM	■			■						■		■
		14,70	12,70	6,35		0,8	DNMG 150608 WM	■			■						■		■
		14,40	12,70	6,35		1,2	DNMG 150612 WM	■			■						■		■
DNMG .. XM		15,10	12,70	4,76		0,4	DNMG 150404 XM												■
		14,70	12,70	4,76		0,8	DNMG 150408 XM										■		■
		15,10	12,70	6,35		0,4	DNMG 150604 XM	■		■	■						■		■
		14,70	12,70	6,35		0,8	DNMG 150608 XM	■		■	■						■		■
		14,40	12,70	6,35		1,2	DNMG 150612 XM			■									■
DNMG .. WR		14,70	12,70	4,76		0,8	DNMG 150408 WR			■	■						■		■
		14,40	12,70	4,76		1,2	DNMG 150412 WR			■	■								
		14,70	12,70	6,35		0,8	DNMG 150608 WR			■	■						■		■
		14,40	12,70	6,35		1,2	DNMG 150612 WR			■	■						■		■
		14,00	12,70	6,35		1,6	DNMG 150616 WR										■		■
DNMG .. ALU		15,10	12,70	4,76		0,4	DNMG 150404 ALU		■	■									
		14,70	12,70	4,76		0,8	DNMG 150408 ALU		■	■									
		15,10	12,70	6,35		0,4	DNMG 150604 ALU		■	■									
		14,70	12,70	6,35		0,8	DNMG 150608 ALU		■	■									
 DNMA .. WR		14,70	12,70	4,76		0,8	DNMA 150408 WR			■	■								
		14,40	12,70	4,76		1,2	DNMA 150412 WR			■	■								
		14,70	12,70	6,35		0,8	DNMA 150608 WR			■	■								
		14,40	12,70	6,35		1,2	DNMA 150612 WR			■	■								
KNUX .. WM		19,20	9,52	4,76		0,5	KNUX 160405-EL-11				■						■		■
		18,80	9,52	4,76		1,0	KNUX 160410-EL-11				■						■		■
		19,20	9,52	4,76		0,5	KNUX 160405-ER-11				■						■		■
		18,80	9,52	4,76		1,0	KNUX 160410-ER-11				■						■		■

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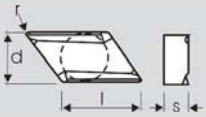
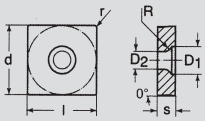
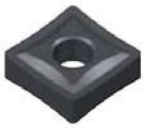
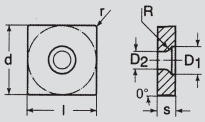
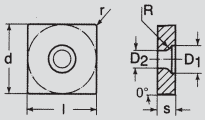
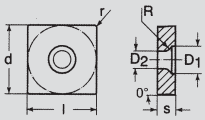
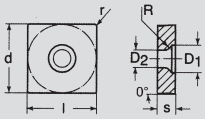
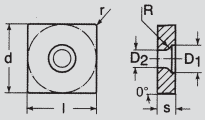
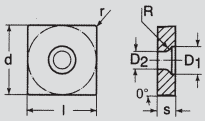
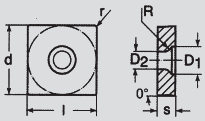
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
KNUX .. WR		19,20	9,52	4,76		0,5	KNUX 160405-EL-12										■		■
		18,80	9,52	4,76		1,0	KNUX 160410-EL-12										■		■
		19,20	9,52	4,76		0,5	KNUX 160405-ER-12										■		■
		18,80	9,52	4,76		1,0	KNUX 160410-ER-12										■		■
SNMG .. WFF		8,70	9,52	3,18		0,8	SNMG 090308 WFF												■
		12,30	12,70	4,76		0,4	SNMG 120404 WFF										■		■
		11,90	12,70	4,76		0,8	SNMG 120408 WFF				■						■		■
 SNMG .. VA		12,30	12,70	4,76		0,4	SNMG 120404 VA									■			
		11,90	12,70	4,76		0,8	SNMG 120408 VA									■			
		11,50	12,70	4,76		1,2	SNMG 120412 VA									■			
SNMG .. WM		12,70	12,70	4,76		0,4	SNMG 120404 WM				■						■		■
		12,70	12,70	4,76		0,8	SNMG 120408 WM				■						■		■
SNMG .. WMM		8,70	9,52	3,18		0,8	SNMG 090308 WMM				■						■		■
		12,30	12,70	4,76		0,4	SNMG 120404 WMM	■			■						■		■
		11,90	12,70	4,76		0,8	SNMG 120408 WMM				■					■	■		■
		11,50	12,70	4,76		1,2	SNMG 120412 WMM				■						■		■
SNMG .. XM		12,30	12,70	4,76		0,4	SNMG 120404 XM				■						■		■
		11,90	12,70	4,76		0,8	SNMG 120408 XM	■			■						■		■
		11,50	12,70	4,76		1,2	SNMG 120412 XM				■						■		■
		11,10	12,70	4,76		1,6	SNMG 120416 XM												■
		15,00	15,87	6,35		0,8	SNMG 150608 XM												■
		14,60	15,87	6,35		1,2	SNMG 150612 XM										■		
		14,20	15,87	6,35		1,6	SNMG 150616 XM										■		
		18,20	19,05	6,35		0,8	SNMG 190608 XM										■		■
		17,80	19,05	6,35		1,2	SNMG 190612 XM				■					■	■		■
		17,40	19,05	6,35		1,6	SNMG 190616 XM				■					■	■		■
		23,80	25,40	7,94		1,6	SNMG 250716 XM				■								■
		23,00	25,40	7,94		2,4	SNMG 250724 XM												■
SNMG .. WR		11,90	12,70	4,76		0,8	SNMG 120408 WR			■	■						■		■
		11,50	12,70	4,76		1,2	SNMG 120412 WR			■	■						■		■
		15,00	15,87	6,35		0,8	SNMG 150608 WR										■		■
		14,60	15,87	6,35		1,2	SNMG 150612 WR				■						■		■
		18,20	19,05	6,35		0,8	SNMG 190608 WR										■		■
		17,80	19,05	6,35		1,2	SNMG 190612 WR										■		■
		17,40	19,05	6,35		1,6	SNMG 190616 WR										■		■
		23,00	25,40	7,94		2,4	SNMG 250724 WR												■
		23,00	25,40	9,52		2,4	SNMG 250924 WR										■		■
SNMG .. ALU		12,30	12,70	4,76		0,4	SNMG 120404 ALU		■	■									
		11,90	12,70	4,76		0,8	SNMG 120408 ALU		■	■									
SNMM .. WR		11,90	12,70	4,76		0,8	SNMM 120408 WR										■		■
		11,50	12,70	4,76		1,2	SNMM 120412 WR										■		■
		14,60	15,87	6,35		1,2	SNMM 150612 WR										■		■
		17,80	19,05	6,35		1,2	SNMM 190612 WR										■		■
		17,40	19,05	6,35		1,6	SNMM 190616 WR				■						■		■
		16,60	19,05	6,35		2,4	SNMM 190624 WR				■						■		■
		23,00	25,04	7,94		2,4	SNMM 250724 WR										■		■
		23,00	25,04	9,52		2,4	SNMM 250924 WR				■						■		■

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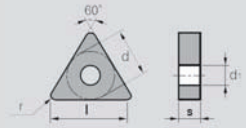
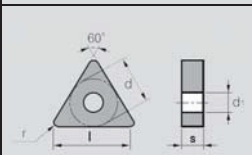
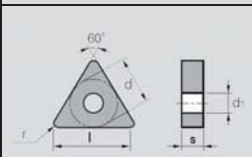
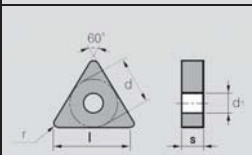
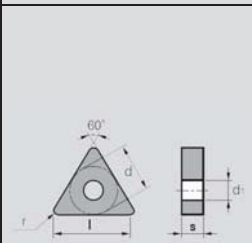
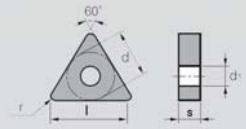
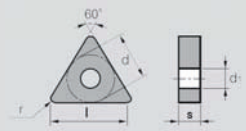
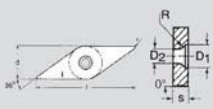
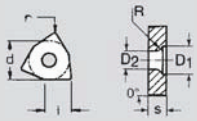
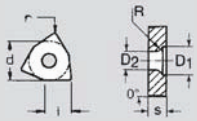
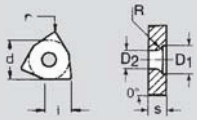
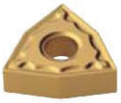
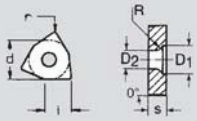
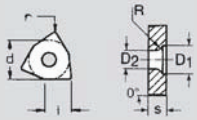
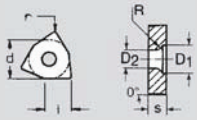
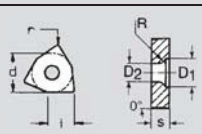
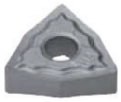
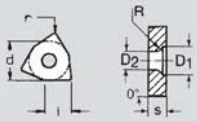
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	KTE20	Beschichtet Sorten coated grades MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
TNMA .. WR		15,50	9,52	4,76		0,4	TNMA 160404 WR				■								
		14,50	9,52	4,76		0,8	TNMA 160408 WR				■								■
		13,50	9,52	4,76		1,2	TNMA 160412 WR				■								
		20,00	12,70	4,76		0,8	TNMA 220408 WR				■								
		19,00	12,70	4,76		1,2	TNMA 220412 WR				■								■
TNMG .. WFF		10,00	6,35	3,18		0,4	TNMG 110304 WFF	■											■
		15,50	9,52	4,76		0,4	TNMG 160404 WFF	■											■
		14,50	9,52	4,76		0,8	TNMG 160408 WFF				■								■
		13,50	9,52	4,76		1,2	TNMG 160412 WFF										■		
		21,00	12,70	4,76		0,4	TNMG 220404 WFF										■		■
TNMG .. VA		15,50	9,52	4,76		0,4	TNMG 160404 VA									■			
		14,50	9,52	4,76		0,8	TNMG 160408 VA									■			
TNMG .. WMM		15,50	9,52	4,76		0,4	TNMG 160404 WMM	■			■								■
		14,50	9,52	4,76		0,8	TNMG 160408 WMM	■			■								■
		21,00	12,70	4,76		0,4	TNMG 220404 WMM												■
		20,00	12,70	4,76		0,8	TNMG 220408 WMM				■								■
		19,00	12,70	4,76		1,2	TNMG 220412 WMM												■
TNMG .. XM		14,50	9,52	3,18		0,8	TNMG 160308 XM												■
		15,50	9,52	4,76		0,4	TNMG 160404 XM	■			■						■		■
		14,50	9,52	4,76		0,8	TNMG 160408 XM	■			■						■		■
		13,50	9,52	4,76		1,2	TNMG 160412 XM												■
		12,50	9,52	4,76		1,6	TNMG 160416 XM				■								
		21,00	12,70	4,76		0,4	TNMG 220404 XM										■		■
		20,00	12,70	4,76		0,8	TNMG 220408 XM				■						■		■
		19,00	12,70	4,76		1,2	TNMG 220412 XM												■
		18,20	12,70	4,76		1,6	TNMG 220416 XM												■
		25,50	15,87	6,35		0,8	TNMG 270608 XM												■
		24,50	15,87	6,35		1,2	TNMG 270612 XM				■						■		■
		29,00	19,05	7,94		1,6	TNMG 330716 XM				■						■		
TNMG .. WR		14,50	9,52	4,76		0,8	TNMG 160408 WR				■						■		■
		13,50	9,52	4,76		1,2	TNMG 160412 WR				■						■		
		20,00	12,70	4,76		0,8	TNMG 220408 WR										■		■
		19,00	12,70	4,76		1,2	TNMG 220412 WR										■		■
		18,20	12,70	4,76		1,6	TNMG 220416 WR										■		■
		25,50	15,87	6,35		0,8	TNMG 270608 WR										■		■
		24,50	15,87	6,35		1,2	TNMG 270612 WR										■		■
		23,50	15,87	6,35		1,6	TNMG 270616 WR												■
		27,10	19,05	9,52		2,4	TNMG 330924 WR												■
TNMG .. ALU		15,50	9,52	4,76		0,4	TNMG 160404 ALU		■	■									
		14,50	9,52	4,76		0,8	TNMG 160408 ALU		■	■									
VNMG .. WFF		16,10	9,52	4,76		0,2	VNMG 160402 WFF	■									■		
		15,60	9,52	4,76		0,4	VNMG 160404 WFF	■			■								■
		14,60	9,52	4,76		0,8	VNMG 160408 WFF												■
VNMG .. VA		15,60	9,52	4,76		0,4	VNMG 160404 VA									■			
		14,60	9,52	4,76		0,8	VNMG 160408 VA									■			
VNMG .. WM		15,60	9,52	4,76		0,4	VNMG 160404 WM				■						■		■
		14,60	9,52	4,76		0,8	VNMG 160408 WM				■						■		■

■ auf Lager on stock

□ auf Anfrage on request

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
VNMG .. WMM		15,60	9,52	4,76		0,4	VNMG 160404 WMM	■			■						■		■
		14,60	9,52	4,76		0,8	VNMG 160408 WMM	■			■					■	■		■
		13,60	9,52	4,76		1,2	VNMG 160412 WMM										■		
VNMG .. XM		15,60	9,52	4,76		0,4	VNMG 160404 XM	■											■
		14,60	9,52	4,76		0,8	VNMG 160408 XM	■											■
VNMG .. WR		14,60	9,52	4,76		0,8	VNMG 160408 WR												■
VNMG .. ALU		15,60	9,52	4,76		0,4	VNMG 160404 ALU		■	■									
WNMA .. WR		6,10	9,52	4,76		0,8	WNMA 060408 WR				■								
		8,30	12,70	4,76		0,8	WNMA 080408 WR				■						■		
		8,20	12,70	4,76		1,2	WNMA 080412 WR				■								
WNMG .. WFF		6,20	9,52	4,76		0,4	WNMG 060404 WFF	■			■								
		6,10	9,52	4,76		0,8	WNMG 060408 WFF				■						■		
		8,40	12,70	4,76		0,4	WNMG 080404 WFF				■								■
		8,30	12,70	4,76		0,8	WNMG 080408 WFF										■		■
WNMG .. VA		8,40	12,70	4,76		0,4	WNMG 080404 VA									■			
		8,30	12,70	4,76		0,8	WNMG 080408 VA									■			
		8,20	12,70	4,76		1,2	WNMG 080412 VA									■			
 WNMG .. WM		6,10	9,52	4,76		0,8	WNMG 060408 WM				■						■		■
		8,40	12,70	4,76		0,4	WNMG 080404 WM				■						■		■
WNMG .. WMM		6,20	9,52	4,76		0,4	WNMG 060404 WMM				■						■		■
		6,10	9,52	4,76		0,8	WNMG 060408 WMM			■	■						■		■
		8,40	12,70	4,76		0,4	WNMG 080404 WMM				■						■		■
		8,30	12,70	4,76		0,8	WNMG 080408 WMM			■	■					■	■		■
		8,20	12,70	4,76		1,2	WNMG 080412 WMM			■							■		■
WNMG .. XM		8,30	12,70	4,76		0,8	WNMG 080408 XM			■	■						■		■
WNMG .. WR		8,30	12,70	4,76		0,8	WNMG 080408 WR				■						■		■
		8,20	12,70	4,76		1,2	WNMG 080412 WR				■						■		
 WNMG .. ALU		6,20	9,52	4,76		0,4	WNMG 060404 ALU		■	■									
		6,10	9,52	4,76		0,8	WNMG 060408 ALU		■	■									
		8,40	12,70	4,76		0,4	WNMG 080404 ALU		■	■									
		8,30	12,70	4,76		0,8	WNMG 080408 ALU		■	■									

■ auf Lager
on stock

□ auf Anfrage
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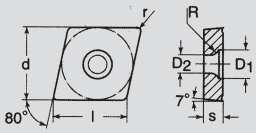
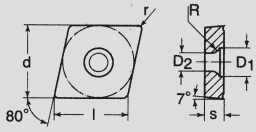
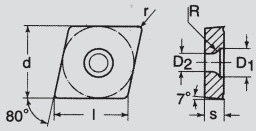
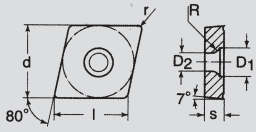
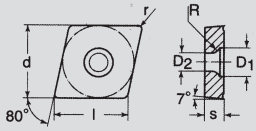
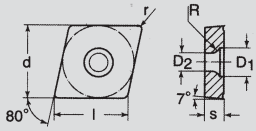
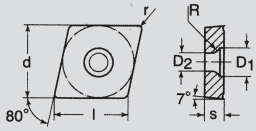
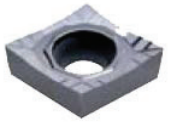
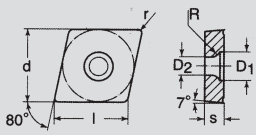
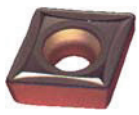
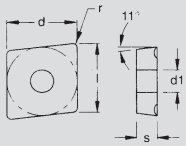
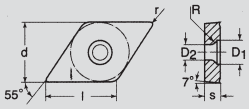
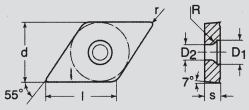
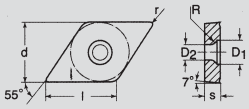
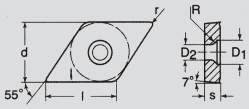
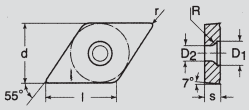
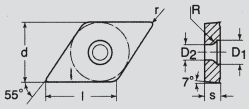
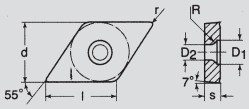
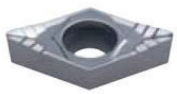
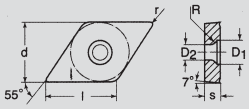
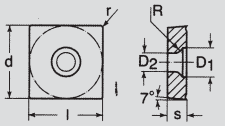
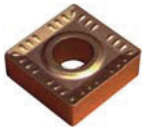
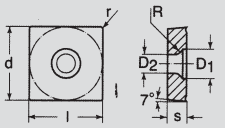
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
CCMT .. WF		6,45	6,35	2,38		0,2	CCMT 060202 WF				■						■		■
		9,67	9,52	3,97		0,2	CCMT 09T302 WF				■						■		■
CCMT .. WFF		6,20	6,35	2,38		0,2	CCMT 060202 WFF	■											■
		6,00	6,35	2,38		0,4	CCMT 060204 WFF										■		■
		9,40	9,52	3,97		0,2	CCMT 09T302 WFF										■		■
		9,20	9,52	3,97		0,4	CCMT 09T304 WFF	■											■
		8,80	9,52	3,97		0,8	CCMT 09T308 WFF												■
CCMT .. WM		6,45	6,35	2,38		0,4	CCMT 060204 WM				■						■		■
		6,45	6,35	2,38		0,8	CCMT 060208 WM				■						■		■
		9,67	9,52	3,97		0,4	CCMT 09T304 WM				■						■		■
		9,67	9,52	3,97		0,8	CCMT 09T308 WM				■						■		■
		12,90	12,70	4,76		0,4	CCMT 120404 WM				■						■		■
		12,90	12,70	4,76		0,8	CCMT 120408 WM				■						■		■
CCMT .. WMM		6,20	6,35	2,38		0,2	CCMT 060202 WMM				■					■	■		■
		6,00	6,35	2,38		0,4	CCMT 060204 WMM	■		■	■					■	■		■
		5,60	6,35	2,38		0,8	CCMT 060208 WMM				■					■	■		■
		9,40	9,52	3,97		0,2	CCMT 09T302 WMM	■			■					■	■		■
		9,20	9,52	3,97		0,4	CCMT 09T304 WMM	■		■	■					■	■		■
		8,80	9,52	3,97		0,8	CCMT 09T308 WMM	■		■	■					■	■		■
		12,40	12,70	4,76		0,4	CCMT 120404 WMM	■		■	■						■		■
		12,00	12,70	4,76		0,8	CCMT 120408 WMM				■						■		■
CCMT .. XM		6,20	6,35	2,38		0,2	CCMT 060202 XM	■									■		■
		6,00	6,35	2,38		0,4	CCMT 060204 XM	■			■						■		■
		5,60	6,35	2,38		0,8	CCMT 060208 XM				■						■		■
		9,20	9,52	3,97		0,4	CCMT 09T304 XM	■			■					■	■		■
		8,80	9,52	3,97		0,8	CCMT 09T308 XM	■			■					■	■		■
		12,40	12,70	4,76		0,4	CCMT 120404 XM	■			■						■		■
		12,00	12,70	4,76		0,8	CCMT 120408 XM				■						■		■
		11,60	12,70	4,76		1,2	CCMT 120412 XM										■		
CCGT .. WFF		6,20	6,35	2,38		0,2	CCGT 060202 WFF									■			
		6,00	6,35	2,38		0,4	CCGT 060204 WFF										■		■
		9,20	9,52	3,97		0,4	CCGT 09T304 WFF										■		■
		8,80	9,52	3,97		0,8	CCGT 09T308 WFF												■
CCGT .. ALU-M		6,20	6,35	2,38		0,2	CCGT 060202 ALU-M		■	■									
		6,00	6,35	2,38		0,4	CCGT 060204 ALU-M		■	■									
		9,40	9,52	3,97		0,2	CCGT 09T302 ALU-M		■	■									
		9,20	9,52	3,97		0,4	CCGT 09T304 ALU-M		■	■									
		8,80	9,52	3,97		0,8	CCGT 09T308 ALU-M		■	■									
		12,60	12,70	4,76		0,2	CCGT 120402 ALU-M		■	■									
		12,40	12,70	4,76		0,4	CCGT 120404 ALU-M		■	■									
		12,00	12,70	4,76		0,8	CCGT 120408 ALU-M		■	■									
 CCGT .. ALU-R		6,20	6,35	2,38		0,2	CCGT 060202 ALU-R		■	■									
		6,00	6,35	2,38		0,4	CCGT 060204 ALU-R		■	■									
		9,40	9,52	3,97		0,2	CCGT 09T302 ALU-R		■	■									
		9,20	9,52	3,97		0,4	CCGT 09T304 ALU-R		■	■									
		8,80	9,52	3,97		0,8	CCGT 09T308 ALU-R		■	■									
		12,60	12,70	4,76		0,2	CCGT 120402 ALU-R		■	■									
		12,40	12,70	4,76		0,4	CCGT 120404 ALU-R		■	■									
		12,00	12,70	4,76		0,8	CCGT 120408 ALU-R		■	■									
 CPMT ..		5,60	5,60	2,00		0,2	CPMT 05T102												■
		5,60	5,60	2,00		0,4	CPMT 05T104												■

■ auf Lager on stock □ auf Anfrage on request

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
DCMT .. WF		7,75	6,35	2,38		0,2	DCMT 070202 WF				■						■		■
		11,60	9,52	3,97		0,2	DCMT 11T302 WF				■						■		■
DCMT .. WFF		7,50	6,35	2,38		0,2	DCMT 070202 WFF	■											■
		7,30	6,35	2,38		0,4	DCMT 070204 WFF	■											■
		11,40	9,52	3,97		0,2	DCMT 11T302 WFF	■											■
		11,20	9,52	3,97		0,4	DCMT 11T304 WFF	■											■
		10,80	9,52	3,97		0,8	DCMT 11T308 WFF	■											■
DCMT .. WM		7,30	6,35	2,38		0,4	DCMT 070204 WM				■						■		■
		6,80	6,35	2,38		0,8	DCMT 070208 WM				■						■		■
		11,20	9,52	3,97		0,4	DCMT 11T304 WM				■						■		■
		10,80	9,52	3,97		0,8	DCMT 11T308 WM				■						■		■
DCMT .. WMM		7,50	6,35	2,38		0,2	DCMT 070202 WMM				■						■		■
		7,30	6,35	2,38		0,4	DCMT 070204 WMM	■			■					■	■		■
		6,80	6,35	2,38		0,8	DCMT 070208 WMM				■						■		■
		11,40	9,52	3,97		0,2	DCMT 11T302 WMM				■					■	■		■
		11,20	9,52	3,97		0,4	DCMT 11T304 WMM	■			■					■	■		■
		10,80	9,52	3,97		0,8	DCMT 11T308 WMM	■			■					■	■		■
DCMT .. XM		7,50	6,35	2,38		0,2	DCMT 070202 XM	■											
		7,30	6,35	2,38		0,4	DCMT 070204 XM	■									■		■
		6,80	6,35	2,38		0,8	DCMT 070208 XM										■		■
		11,40	9,52	3,97		0,2	DCMT 11T302 XM	■											
		11,20	9,52	3,97		0,4	DCMT 11T304 XM	■			■						■		■
		10,80	9,52	3,97		0,8	DCMT 11T308 XM	■			■						■		■
DCGT .. WFF		11,40	9,52	3,97		0,2	DCGT 11T302 WFF	■											
		11,20	9,52	3,97		0,4	DCGT 11T304 WFF	■								■			
		10,80	9,52	3,97		0,8	DCGT 11T308 WFF				■								■
DCGT .. ALU-M		7,50	6,35	2,38		0,2	DCGT 070202 ALU-M		■	■									
		7,30	6,35	2,38		0,4	DCGT 070204 ALU-M		■	■									
		6,80	6,35	2,38		0,4	DCGT 070208 ALU-M		■	■									
		11,40	9,52	3,97		0,2	DCGT 11T302 ALU-M		■	■									
		11,20	9,52	3,97		0,4	DCGT 11T304 ALU-M		■	■									
		10,80	9,52	3,97		0,8	DCGT 11T308 ALU-M		■	■									
		10,40	9,52	3,97		1,2	DCGT 11T312 ALU-M		■	■									
 DCGT .. ALU-R		7,50	6,35	2,38		0,2	DCGT 070202 ALU-R		■	■									
		7,30	6,35	2,38		0,4	DCGT 070204 ALU-R		■	■									
		6,80	6,35	2,38		0,4	DCGT 070208 ALU-R		■	■									
		11,40	9,52	3,97		0,2	DCGT 11T302 ALU-R		■	■									
		11,20	9,52	3,97		0,4	DCGT 11T304 ALU-R		■	■									
		10,80	9,52	3,97		0,8	DCGT 11T308 ALU-R		■	■									
SCMT .. WFF		9,10	9,52	3,97		0,4	SCMT 09T304 WFF	■			■								■
 SCMT .. WM		9,10	9,52	3,97		0,4	SCMT 09T304 WM										■		■
		8,70	9,52	3,97		0,8	SCMT 09T308 WM										■		■
		12,30	12,70	4,76		0,4	SCMT 120404 WM										■		■
		11,90	12,70	4,76		0,8	SCMT 120408 WM										■		■

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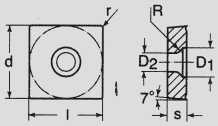
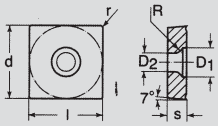
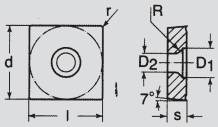
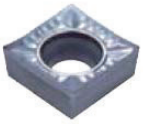
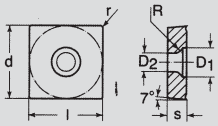
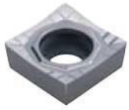
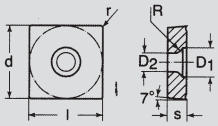
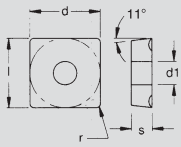
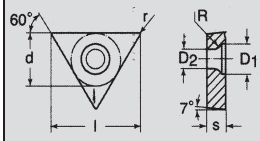
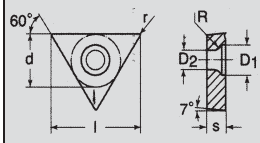
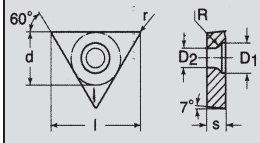
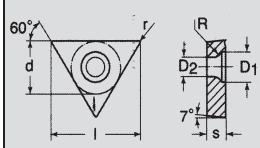
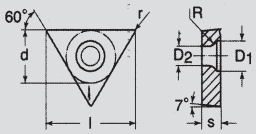
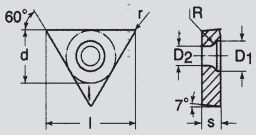
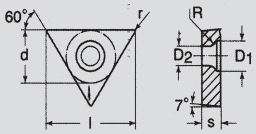
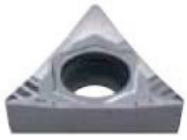
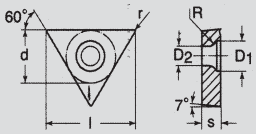
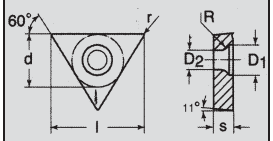
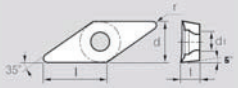
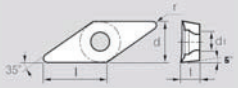
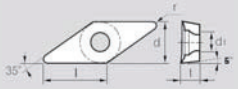
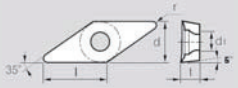
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
SCMT .. WMM		9,10	9,52	3,97		0,4	SCMT 09T304 WMM	■									■		■
		8,70	9,52	3,97		0,8	SCMT 09T308 WMM				■						■		■
		12,30	12,70	4,76		0,4	SCMT 120404 WMM				■						■		■
		11,90	12,70	4,76		0,8	SCMT 120408 WMM				■						■		■
SCMT .. XM		5,90	6,35	2,38		0,4	SCMT 060204 XM												■
		9,10	9,52	3,97		0,4	SCMT 09T304 XM	■									■		■
		8,70	9,52	3,97		0,8	SCMT 09T308 XM	■			■						■		■
		12,30	12,70	4,76		0,4	SCMT 120404 XM										■		■
		11,90	12,70	4,76		0,8	SCMT 120408 XM	■			■						■		■
SCGT .. WFF		9,10	9,52	3,97		0,4	SCGT 09T304 WFF				■								■
 SCGT .. ALU-M		9,10	9,52	3,97		0,4	SCGT 09T304 ALU-M		■	■									
		8,70	9,52	3,97		0,8	SCGT 09T308 ALU-M		■	■									
		12,30	12,70	4,76		0,4	SCGT 120404 ALU-M		■	■									
		11,90	12,70	4,76		0,8	SCGT 120408 ALU-M		■	■									
 SCGT .. ALU-R		9,10	9,52	3,97		0,4	SCGT 09T304 ALU-M		■	■									
		8,70	9,52	3,97		0,8	SCGT 09T308 ALU-M		■	■									
		12,30	12,70	4,76		0,4	SCGT 120404 ALU-M		■	■									
		11,90	12,70	4,76		0,8	SCGT 120408 ALU-M		■	■									
SPLT ..		6,35	6,35	3,18		0,4	SPLT 060304		■	■				■			■		■
		6,35	6,35	3,18			SPLT 0603 AD		■	■				■			■		■
TCGT .. WFF		8,60	6,35	2,38		0,4	TCGT 090204 WFF	■											■
		10,50	6,35	2,38		0,2	TCGT 110202 WFF	■											■
		10,00	6,35	2,38		0,4	TCGT 110204 WFF	■											■
		15,50	9,52	3,97		0,4	TCGT 16T304 WFF	■											■
TCMT .. WF		7,70	4,76	2,38		0,4	TCMT 080204 WF										■		■
		10,50	6,35	2,38		0,2	TCMT 110202 WF										■		■
		15,50	9,52	3,97		0,2	TCMT 16T302 WF										■		■
TCMT .. WFF		10,50	6,35	2,38		0,2	TCMT 110202 WFF	■											■
		10,00	6,35	2,38		0,4	TCMT 110204 WFF	■											■
		9,00	6,35	2,38		0,8	TCMT 110208 WFF	■											■
		15,50	9,52	3,97		0,4	TCMT 16T304 WFF	■											■
TCMT .. WM		11,00	6,35	2,38		0,4	TCMT 110204 WM										■		■
		11,00	6,35	2,38		0,8	TCMT 110208 WM										■		■
		16,50	9,52	3,97		0,4	TCMT 16T304 WM										■		■
		16,50	9,52	3,97		0,8	TCMT 16T308 WM										■		■

■ auf Lager on stock

□ auf Anfrage on request

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
TCMT .. WMM		7,60	5,56	2,38		0,8	TCMT 090208 WMM												■
		10,00	6,35	2,38		0,4	TCMT 110204 WMM	■			■						■		■
		9,00	6,35	2,38		0,8	TCMT 110208 WMM	■			■						■		■
		15,50	9,52	3,97		0,4	TCMT 16T304 WMM	■		■	■					■	■		■
		14,50	9,52	3,97		0,8	TCMT 16T308 WMM	■		■	■						■		■
TCMT .. XM		8,60	5,56	2,38		0,4	TCMT 090204 XM				■						■		■
		7,60	5,56	2,38		0,8	TCMT 090208 XM				■						■		
		10,50	6,35	2,38		0,2	TCMT 110202 XM										■		
		10,00	6,35	2,38		0,4	TCMT 110204 XM	■			■						■		■
		9,00	6,35	2,38		0,8	TCMT 110208 XM	■			■				■		■		■
		15,50	9,52	3,97		0,4	TCMT 16T304 XM	■			■				■		■		■
		14,50	9,52	3,97		0,8	TCMT 16T308 XM	■			■				■		■		■
TCGT .. ALU-M		9,10	5,56	2,38		0,2	TCGT 090202 ALU-M		■	■									
		8,60	5,56	2,38		0,4	TCGT 090204 ALU-M		■	■									
		10,50	6,35	2,38		0,2	TCGT 110202 ALU-M		■	■									
		10,00	6,35	2,38		0,4	TCGT 110204 ALU-M		■	■									
		9,00	6,35	2,38		0,8	TCGT 110208 ALU-M		■	■									
		15,50	9,52	3,97		0,2	TCGT 16T302 ALU-M		■	■									
		15,00	9,52	3,97		0,4	TCGT 16T304 ALU-M		■	■									
		14,50	9,52	3,97		0,8	TCGT 16T308 ALU-M		■	■									
		13,50	9,52	3,97		1,2	TCGT 16T312 ALU-M		■	■									
		12,50	9,52	3,97		1,6	TCGT 16T316 ALU-M		■	■									
 TCGT .. ALU-R		8,60	5,56	2,38		0,4	TCGT 090204 ALU-R		■	■									
		10,00	6,35	2,38		0,4	TCGT 110204 ALU-R		■	■									
		9,00	6,35	2,38		0,8	TCGT 110208 ALU-R		■	■									
		15,50	9,52	3,97		0,2	TCGT 16T302 ALU-R		■	■									
		15,00	9,52	3,97		0,4	TCGT 16T304 ALU-R		■	■									
		14,50	9,52	3,97		0,8	TCGT 16T308 ALU-R		■	■									
TPGX..		6,40	3,97	1,59		0,2	TPGX 060102 L	■											
		5,80	3,97	1,59		0,4	TPGX 060104 L	■											
		8,00	4,76	2,18		0,2	TPGX 080202 L	■											■
		8,00	4,76	2,18		0,4	TPGX 080204 L	■											
VBGT .. WFF		11,00	6,35	3,18		0,4	VBGT 110301 WFF										■		
		14,60	9,52	4,76		0,8	VBGT 160408 WFF										■		
VBMT .. WFF		15,60	9,52	4,76		0,4	VBMT 160404 WFF				■						■		■
		14,60	9,52	4,76		0,8	VBMT 160408 WFF				■						■		■
VBMT .. WMM		10,00	6,35	2,38		0,4	VBMT 110204 WMM										■		
		10,00	6,35	3,18		0,4	VBMT 110304 WMM				■						■		
		9,00	6,35	3,18		0,8	VBMT 110308 WMM										■		
		15,60	9,52	4,76		0,4	VBMT 160404 WMM				■					■	■		■
		14,60	9,52	4,76		0,8	VBMT 160408 WMM	■			■					■	■		■
VBMT .. XM		15,60	9,52	4,76		0,4	VBMT 160404 XM	■		■						■	■		■
		14,60	9,52	4,76		0,8	VBMT 160408 XM	■		■	■					■	■		■

■ auf Lager
on stock

□ auf Anfrage
on request

Drehen positiv
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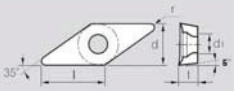
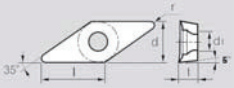
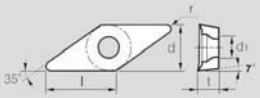
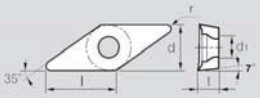
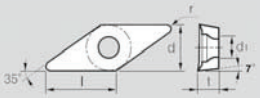
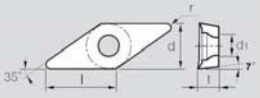
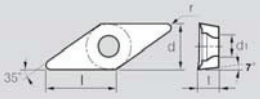
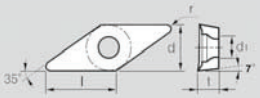
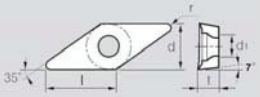
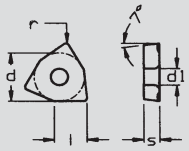
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
VBGT .. ALU-M		10,50	6,35	3,18		0,2	VBGT 110302 ALU-M		■	■									
		10,00	6,35	3,18		0,4	VBGT 110304 ALU-M		■	■									
		15,60	9,52	4,76		0,4	VBGT 160404 ALU-M		■	■									
		14,00	9,52	4,76		0,8	VBGT 160408 ALU-M		■	■									
VBGT .. ALU-R		15,60	9,52	4,76		0,4	VBGT 160404 ALU-R		■	■									
		14,00	9,52	4,76		0,8	VBGT 160408 ALU-R		■	■									
VCGT .. WFF		10,00	6,35	3,18		0,4	VCGT 110304 WFF										■		
		15,60	9,52	4,76		0,4	VCGT 160404 WFF									■	■		
		14,60	9,52	4,76		0,8	VCGT 160408 WFF									■	■		
VCMT .. WF		11,00	6,35	3,18		0,2	VCMT 110302 WF				■						■		■
VCMT .. WFF		10,50	6,35	3,18		0,2	VCMT 110302 WFF				■						■		■
		10,00	6,35	3,18		0,4	VCMT 110304 WFF				■						■		■
		9,00	6,35	3,18		0,8	VCMT 110308 WFF				■						■		■
		15,60	9,52	4,76		0,4	VCMT 160404 WFF				■						■		■
		14,60	9,52	4,76		0,8	VCMT 160408 WFF				■						■		■
VCMT .. WM		11,00	6,35	3,18		0,4	VCMT 110304 WM				■						■		■
		11,00	6,35	3,18		0,8	VCMT 110308 WM				■						■		■
		16,00	9,52	4,76		0,4	VCMT 160404 WM				■						■		■
		16,00	9,52	4,76		0,8	VCMT 160408 WM				■						■		■
VCMT .. WMM		15,60	9,52	4,76		0,4	VCMT 160404 WMM				■						■		■
		14,60	9,52	4,76		0,8	VCMT 160408 WMM				■						■		■
VCGT .. ALU-M		10,50	6,35	3,18		0,2	VCGT 110302 ALU-M		■	■									
		10,00	6,35	3,18		0,4	VCGT 110304 ALU-M		■	■									
		9,00	6,35	3,18		0,8	VCGT 110308 ALU-M		■	■									
		12,50	7,94	3,18		0,2	VCGT 130302 ALU-M		■	■									
		12,00	7,94	3,18		0,4	VCGT 130304 ALU-M		■	■									
		16,10	9,52	4,76		0,2	VCGT 160402 ALU-M		■	■									
		15,60	9,52	4,76		0,4	VCGT 160404 ALU-M		■	■									
		14,00	9,52	4,76		0,8	VCGT 160408 ALU-M		■	■									
		13,60	9,52	4,76		1,2	VCGT 160412 ALU-M		■	■									
		14,30	12,70	5,56		3,0	VCGT 220530 ALU-M		■	■									
VCGT .. ALU-R		10,50	6,35	3,18		0,2	VCGT 110302 ALU-R		■	■									
		10,00	6,35	3,18		0,4	VCGT 110304 ALU-R		■	■									
		9,00	6,35	3,18		0,8	VCGT 110308 ALU-R		■	■									
		12,50	7,94	3,18		0,2	VCGT 130302 ALU-R		■	■									
		12,00	7,94	3,18		0,4	VCGT 130304 ALU-R		■	■									
		16,10	9,52	4,76		0,2	VCGT 160402 ALU-R		■	■									
		15,60	9,52	4,76		0,4	VCGT 160404 ALU-R		■	■									
		14,00	9,52	4,76		0,8	VCGT 160408 ALU-R		■	■									
		13,60	9,52	4,76		1,2	VCGT 160412 ALU-R		■	■									
		14,30	12,70	5,56		2,5	VCGT 220525 ALU-R												
WCGT .. WF		2,62	3,97	1,59	2,30	0,2	WCGT 020102 WF	■											

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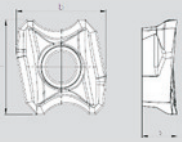
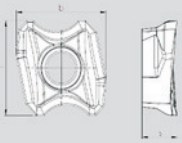
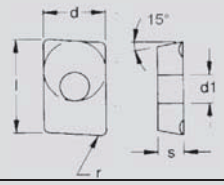
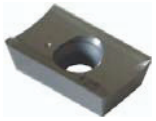
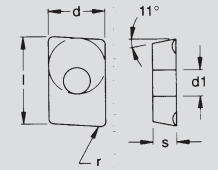
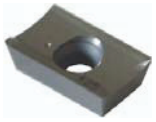
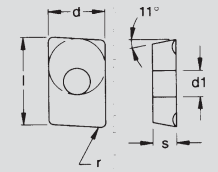
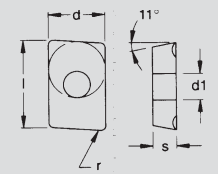
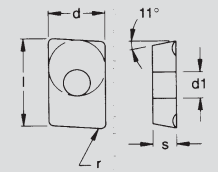
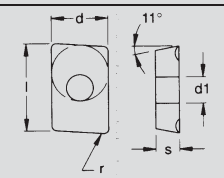
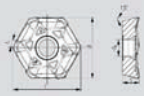
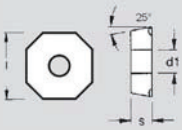
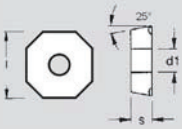
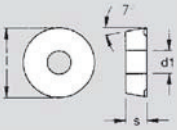
	Form Figure	Abmessungen Dimensions					Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades											
		l	b	s	d1	r					K10			KTE20		PTV28	ASTC25 TiCN	TiALN	Ex Eurekal	MTM35/ MOST	AMTC TiCN-Alu4		ASG TiN	MTM35
ACLX..		7,35	6,30	3,20			ACLX 0607 ..				■			■		■	■	■	■	■	■		■	■
		10,60	10,60	4,16			ACLX 0910 ..				■			■		■	■	■	■	■	■		■	■
ACHX..		7,35	6,30	3,20			ACHX 0607 ..				■			■		■	■	■	■	■	■		■	■
		10,60	10,60	4,16			ACHX 0910 ..				■			■		■	■	■	■	■	■		■	■

■ auf Lager
on stock

□ auf Anfrage
on request

	Form Figure	Abmessungen Dimensions						Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades												
		l	l1	l2	d	s	r			CT28		K10		KTS20	KTE20	DiaX	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	KZN20	PTT20	PTT28	PTT35
ADKT...			16,30	9,45	5,00	4,50	0,8	ADKT 1505 PDER									■			■						■
 APHX...			10,50	6,70	3,50	2,85	0,5	APHX 100304 FR ALU				■			■											
			10,50	6,70	3,50	2,85	0,8	APHX 100308 FR ALU							■											
			10,50	6,70	3,50	2,85	1,2	APHX 100312 FR ALU							■											
			10,50	6,70	3,50	2,85	1,6	APHX 100316 FR ALU							■											
			10,50	6,70	3,50	2,85	2,0	APHX 100320 FR ALU							■											
 APHX...			16,00	9,45	5,26	4,40	0,8	APHX 1604 FR ALU				■			■											
			16,00	9,45	5,26	4,40	1,2	APHX 160412 FR ALU							■											
			16,00	9,45	5,26	4,40	1,6	APHX 160416 FR ALU							■											
			16,00	9,45	5,26	4,40	2,4	APHX 160424 FR ALU							■											
			16,00	9,45	5,26	4,40	3,0	APHX 160430 FR ALU							■											
			16,00	9,45	5,26	4,40	4,0	APHX 160440 FR ALU							■											
APHT... (VA) (INOX)			10,50	6,70	3,50	2,85	0,5	APHT 1003 PDSR											■			■				
			16,00	9,45	5,26	4,40	0,8	APHT 1604 PDER											■			■				
APKT...			10,50	6,70	3,50	2,85	0,5	APKT 1003 PDSR							■		■	■	■	■	■		■	■	■
			10,50	6,70	3,50	2,85	0,8	APKT 100308 PDSR											■	□	□				□
			10,50	6,70	3,50	2,85	1,2	APKT 100312 PDSR											■	□	□				□
			10,50	6,70	3,50	2,85	1,6	APKT 100316 PDSR											■	□	□				□
			10,50	6,70	3,50	2,85	2,0	APKT 100320 PDSR											■	□	□				□
			10,50	6,70	3,50	2,85	0,8	APKT1003-K PDSR											■						
APKT...			16,00	9,45	5,26	4,40	0,8	APKT 1604 PDER							■		■	■	■	■	■		■	■	■
			16,00	9,45	5,26	4,40	1,2	APKT 160412 PDER											■	□	□				□
			16,00	9,45	5,26	4,40	1,6	APKT 160416 PDER											■	□	□				□
			16,00	9,45	5,26	4,40	2,4	APKT 160424 PDER											■	□	□				□
			16,00	9,45	5,26	4,40	3,0	APKT 160430 PDER											■	□	□				□
			16,00	9,45	5,26	4,40	4,0	APKT 160440 PDER											■	□	□				□
HPKT...			14,00	15,88	6,00	5,70	3,65	HPKT 0704 AZR SM				■			■		■		■			■				■
OFMT... WM			12,70		3,76	4,40	0,5	OFMT 05T305 WM												■						■
			12,70		3,76	4,40	0,8	OFMT 05T308 WM												■						■
OFMT... ALU			12,70		3,76	4,40	0,5	OFMT 05T305 ALU				■			■											
RCGT - ALU RCGT - MO RCMT - WM				6,00	2,38	2,85		RCGT 0602 ALU				■			■											
				8,00	3,18	3,40		RCGT 0803 ALU				■			■											
				10,00	3,18	3,80		RCGT 1003 ALU				■			■											
				12,00	4,76	4,40		RCGT 1204 ALU				■			■											
				6,00	2,38	2,85		RCGT 0602 MO									■			■						■
				6,00	2,38	2,85		RCMT 0602 WM									■			■						■
				8,00	3,18	3,40		RCMT 0803 WM									■			■						■
				10,00	3,18	3,80		RCMT 1003 WM									■			■						■
				12,00	4,76	4,40		RCMT 1204 WM									■			■						■

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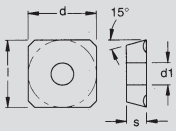
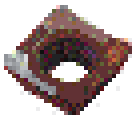
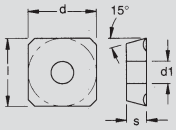
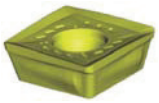
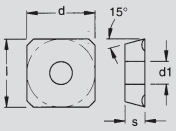
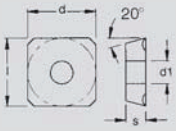
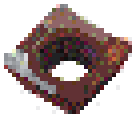
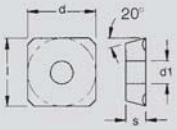
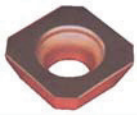
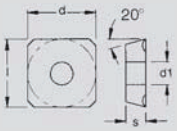
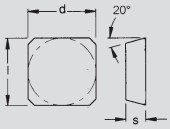
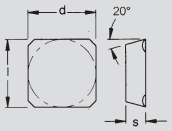
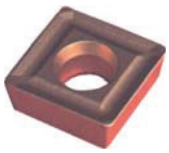
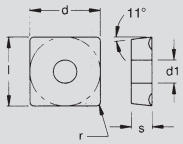
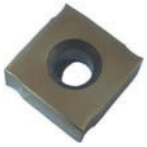
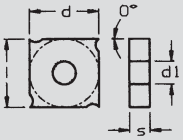
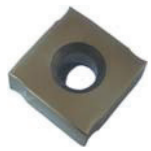
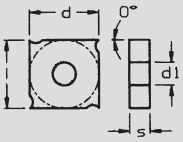
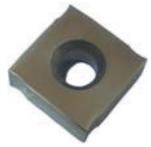
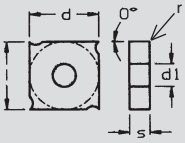
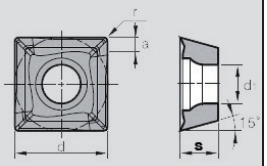
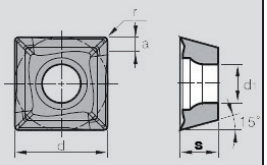
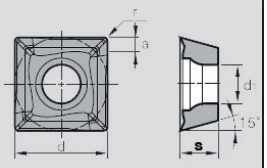
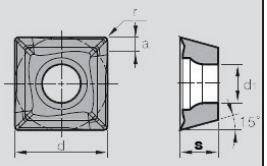
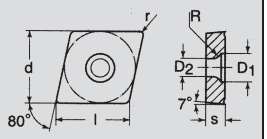
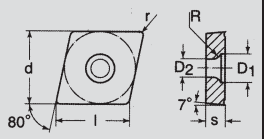
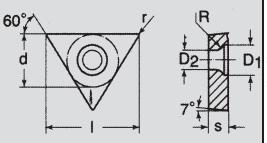
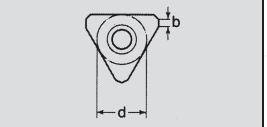
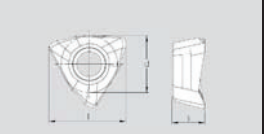
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
SDHT...		9,52	9,52	3,97	4,40		SDHT 09T3AE				■			■			■		■
		12,70	12,70	4,76	5,50		SDHT 1204AE				■			■			■		■
 SDHT.. ALU		9,52	9,52	3,97	4,40		SDHT 09T3FR ALU		■	■									
		12,70	12,70	4,76	5,50		SDHT 1204FR ALU		■	■									
SDHT.. VA		12,70	12,70	4,76	5,50		SDHT 1204AE VA							■					■
 SDMT...		12,70	12,70	5,00	5,00		SDMT 1205 PDER				■			■			■		■
SEHT...		12,70	12,70	4,76	5,50		SEHT 1204AF				■		■	■			■	■	■
 SEHT.. ALU		12,70	12,70	4,76	5,50		SEHT 1204AF ALU		■	■									
SEHT.. VA		12,70	12,70	4,76	5,50		SDHT 1204AF VA							■					■
 SEHW... SEKW...		12,70	12,70	4,76	5,50		SEHW 1204AF				■			■			■		■
		12,70	12,70	4,76	5,50		SEKW 1204AF				■			■			■		■
SEKN...		12,70	12,70	3,18			SEKN 1203 AF				■			■			■		■
SEKR...		12,70	12,70	3,18			SEKR 1203 AF				■			■			■		■

■ auf Lager on stock □ auf Anfrage on request

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
 SPLT... SPKT...		6,35	6,35	3,18	2,85	0,4	SPLT 060304		■	■	■			■			■		■
		6,35	6,35	3,18	2,85		SPLT 0603AD			■	■			■			■		■
		12,70	12,70	4,76	5,50	0,8	SPLT 120408							■					■
		12,70	12,70	4,76	5,50		SPKT 1204AD												■
		12,70	12,70	4,76	5,50		SPKT 1204AE												■
 SNHX ... T SNHX ... T-VA		11,00	11,00	2,30	4,40		SNHX 1102T			■			■						■
		11,00	11,00	2,30	4,40		SNHX 1102T-VA			■			■						■
		11,00	11,00	2,70	4,40		SNHX 1103T			■			■						■
		11,00	11,00	2,70	4,40		SNHX 1103T-VA			■			■						■
		12,70	12,70	3,20	5,50		SNHX 1203T			■			■						■
		12,70	12,70	3,20	5,50		SNHX 1203T-VA			■			■						■
		12,70	12,70	4,00	5,50		SNHX 1204T			■			■						■
		12,70	12,70	4,00	5,50		SNHX 1204T-VA			■			■						■
		12,70	12,70	4,50	5,50		SNHX 12045T			■			■						■
		12,70	12,70	4,50	5,50		SNHX 12045T-VA			■			■						■
		12,70	12,70	5,40	5,50		SNHX 1205T			■			■						■
		12,70	12,70	5,40	5,50		SNHX 1205T-VA			■			■						■
		12,70	12,70	7,00	5,00		SNHX 1207T			■			■						■
		12,70	12,70	7,00	5,00		SNHX 1207T-VA			■			■						■
 SNHX ... T-90 R/L R=rechts/right L=links/left SNHX ... T-90VA R/L R=rechts/right L=links/left		11,00	11,00	1,65	4,40		SNHX 1116T-90 R/L			■			■						■
		11,00	11,00	1,65	4,40		SNHX 1116T-90VA R/L			■			■						■
		11,00	11,00	1,90	4,40		SNHX 1119T-90 R/L			■			■						■
		11,00	11,00	1,90	4,40		SNHX 1119T-90VA R/L			■			■						■
		11,00	11,00	2,30	4,40		SNHX 1102T-90 R/L			■			■						■
		11,00	11,00	2,30	4,40		SNHX 1102T-90VA R/L			■			■						■
		11,00	11,00	2,70	4,40		SNHX 1103T-90 R/L			■			■						■
		11,00	11,00	2,70	4,40		SNHX 1103T-90VA R/L			■			■						■
		12,70	12,70	3,20	5,50		SNHX 1203T-90 R/L			■			■						■
		12,70	12,70	3,20	5,50		SNHX 1203T-90VA R/L			■			■						■
		12,70	12,70	4,00	5,50		SNHX 1204T-90 R/L			■			■						■
		12,70	12,70	4,00	5,50		SNHX 1204T-90VA R/L			■			■						■
		12,70	12,70	4,50	5,50		SNHX 12045T-90 R/L			■			■						■
		12,70	12,70	4,50	5,50		SNHX 12045T-90VA R/L			■			■						■
		12,70	12,70	5,40	5,50		SNHX 1205T-90 R/L			■			■						■
		12,70	12,70	5,40	5,50		SNHX 1205T-90VA R/L			■			■						■
		12,70	12,70	7,00	5,00		SNHX 1207T-90 R/L			■			■						■
		12,70	12,70	7,00	5,00		SNHX 1207T-90VA R/L			■			■						■
 SNHX ... R..-90 R/L R=rechts/right L=links/left **mit Radien with radius** SNHX ... R..-90VA R/L R=rechts/right L=links/left **mit Radien with radius**		11,00	11,00	2,30	4,40	1,00	SNHX 1102R1,0-90 R/L			■			■						□
		11,00	11,00	2,30	4,40	1,00	SNHX 1102R1,0-90VA R/L			■			■						□
		11,00	11,00	2,70	4,40	1,00	SNHX 1103R1,0-90 R/L			■			■						□
		11,00	11,00	2,70	4,40	1,00	SNHX 1103R1,0-90VA R/L			■			■						□
		11,00	11,00	2,70	4,40	1,50	SNHX 1103R1,5-90 R/L			■			■						□
		11,00	11,00	2,70	4,40	1,50	SNHX 1103R1,5-90VA R/L			■			■						□
		12,70	12,70	3,20	5,50	1,00	SNHX 1203R1,0-90 R/L			■			■						□
		12,70	12,70	3,20	5,50	1,00	SNHX 1203R1,0-90VA R/L			■			■						□
		12,70	12,70	3,20	5,50	1,50	SNHX 1203R1,5-90 R/L			■			■						□
		12,70	12,70	3,20	5,50	1,50	SNHX 1203R1,5-90VA R/L			■			■						□
		12,70	12,70	4,00	5,50	1,00	SNHX 1204R1,0-90 R/L			■			■						□
		12,70	12,70	4,00	5,50	1,00	SNHX 1204R1,0-90VA R/L			■			■						□
		12,70	12,70	4,00	5,50	1,50	SNHX 1204R1,5-90 R/L			■			■						□
		12,70	12,70	4,00	5,50	1,50	SNHX 1204R1,5-90VA R/L			■			■						□
		12,70	12,70	4,50	5,50	1,00	SNHX 12045R1,0-90 R/L			■			■						□
		12,70	12,70	4,50	5,50	1,00	SNHX 12045R1,0-90VA R/L			■			■						□
		12,70	12,70	4,50	5,50	1,50	SNHX 12045R1,5-90 R/L			■			■						□
		12,70	12,70	4,50	5,50	1,50	SNHX 12045R1,5-90VA R/L			■			■						□
		12,70	12,70	5,40	5,50	1,00	SNHX 1205R1,0-90 R/L			■			■						□
		12,70	12,70	5,40	5,50	1,00	SNHX 1205R1,0-90VA R/L			■			■						□
		12,70	12,70	5,40	5,50	1,50	SNHX 1205R1,5-90 R/L			■			■						□
		12,70	12,70	5,40	5,50	1,50	SNHX 1205R1,5-90VA R/L			■			■						□
		12,70	12,70	5,40	5,50	2,00	SNHX 1205R2,0-90 R/L			■			■						□
		12,70	12,70	5,40	5,50	2,00	SNHX 1205R2,0-90VA R/L			■			■						□
		12,70	12,70	7,00	5,00	1,00	SNHX 1207R1,0-90 R/L			■			■						□
		12,70	12,70	7,00	5,00	1,00	SNHX 1207R1,0-90VA R/L			■			■						□
		12,70	12,70	7,00	5,00	1,50	SNHX 1207R1,5-90 R/L			■			■						□
		12,70	12,70	7,00	5,00	1,50	SNHX 1207R1,5-90VA R/L			■			■						□
		12,70	12,70	7,00	5,00	2,00	SNHX 1207R2,0-90 R/L			■			■						□
		12,70	12,70	7,00	5,00	2,00	SNHX 1207R2,0-90VA R/L			■			■						□
		12,70	12,70	7,00	5,00	2,50	SNHX 1207R2,5-90 R/L			■			■						□
		12,70	12,70	7,00	5,00	2,50	SNHX 1207R2,5-90VA R/L			■			■						□

■ auf Lager on stock □ auf Anfrage on request

	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
SDET... ALU			9,52	3,92	4,0	0,2	SDET 09M402R ALU		■	■									
			9,52	3,92	4,0	0,4	SDET 09M404R ALU		□	□									
			9,52	3,92	4,0	0,5	SDET 09M405R ALU		□	□									
			13,5	5,56	5,56	0,4	SDET 130504R ALU		■	■									
SDET... WF			9,52	3,92	4,0	0,5	SDET 09M405R WF				■		■			■	■		■
			13,5	5,56	5,56	0,8	SDET 130508R WF				■		■			■	■		■
SDET... WM			9,52	3,92	4,0	0,5	SDET 09M405R WM				■		■			■	■		■
			13,5	5,56	5,56	0,8	SDET 130508R WM				■		■			■	■		■
SDMT... WM			9,52	3,18	4,4	0,8	SDMT 090308 WM				■		■						■
XCMT .. WM		6,45	6,35	2,38		0,4	XCMT 070204 WM										■		■
		6,45	6,35	2,38		0,8	XCMT 070208 WM										■		■
		9,67	9,52	3,97		0,4	XCMT 10T304 WM										■		■
		9,67	9,52	3,97		0,8	XCMT 10T308 WM										■		■
XCGT .. (ALU)		6,45	6,35	2,38		0,4	XCGT 070204 ALU			■									
		6,45	6,35	2,38		0,8	XCGT 070208 ALU			■									
		9,67	9,52	3,97		0,4	XCGT 10T304 ALU			■									
		9,67	9,52	3,97		0,8	XCGT 10T308 ALU			■									
TCXT .. WM		16,50	9,52	3,97		0,4	TCXT 16T304 WM			■							■		■
		16,50	9,52	3,97		0,8	TCXT 16T308 WM			■							■		■
TPAW..		16,50	9,52	4,76			TPAW 1604 PPN							■					■
X10N ..		10,00		2,00		0,2	X10N 2.00S-0.20T			■			■					■	
		10,00		2,50		0,2	X10N 2.50S-0.20T			■			■					■	
		10,00		3,00		0,3	X10N 3.00S-0.30T			■			■					■	
		10,00		3,00		1,5	X10N 3.00R-1.50T			■			■					■	
		10,00		4,00		0,4	X10N 4.00S-0.40T			■			■					■	
		10,00		4,00		2,0	X10N 4.00R1.50T			■			■					■	
		10,00		5,00		0,4	X10N 5.00S-0.40T			■			■					■	
TPKT ..		8,00	8,00	2,40	2,50	0,5	TPKT 0803 PDSR			■	■		■					■	■
		8,00	8,00	2,40	2,50	1,2	TPKT 080312 PDSR			□	□		■					□	□
		8,00	8,00	2,40	2,50	1,6	TPKT 080316 PDSR			□	□		■					□	□
		8,00	8,00	2,40	2,50	2,0	TPKT 080320 PDSR			□	□		■					□	□

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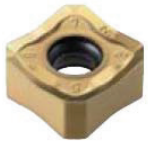
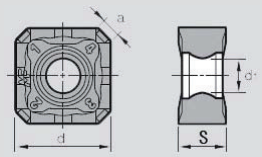
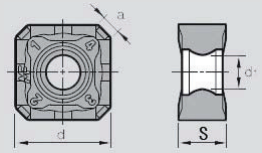
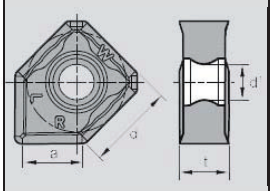
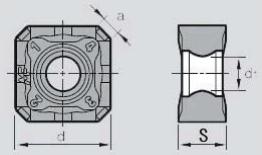
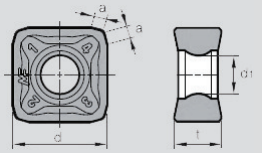
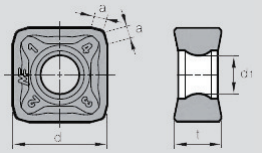
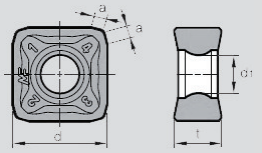
	Form Figure	Abmessungen Dimensions					Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades										
		r	d	s	d1	a			CT28		K10		KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
 SNMX .. AN-WF ..			12,70	6,35	4,5	2,36	SNMX 1205AN-WF						■				■						■
SNMX .. AN-WM ..			12,70	6,35	4,5	2,36	SNMX 1205AN-WM						■		■		■						■
SNMX .. - AN-WW ..			12,70	6,35	4,5	2,36	SNMX 1205AN-WW						■										■
SNMX .. AN-ALU ..			12,70	6,35	4,5	2,36	SNMX 1205AN-ALU				■		■										
SNMX .. EN-WF ..			12,70	6,35	4,5	1,82	SNMX 1205EN-WF						■				■						■
SNMX .. EN-WM ..			12,70	6,35	4,5	1,82	SNMX 1205EN-WM						■		■		■						■
SNMX .. EN-ALU ..			12,70	6,35	4,5	1,82	SNMX 1205EN-ALU				■		■										

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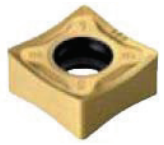
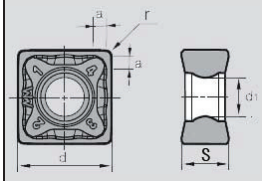
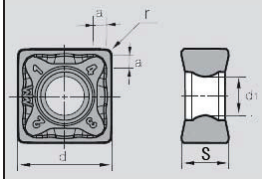
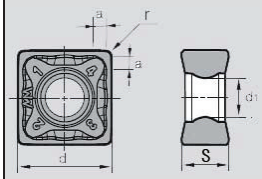
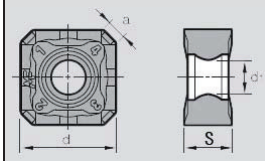
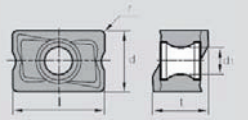
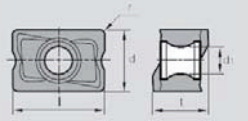
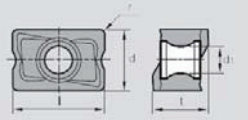
	Form Figure	Abmessungen Dimensions r	d	s	d1	a	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
 SNMX .. QN-WF ..			12,70	6,35	5,2	2,36	SNMX 1205QN-WF			■			■						■
		1,20	12,70	6,35	5,2		SNMX 120512QN-WF			■			■						■
SNMX .. QN-WM ..			12,70	6,35	5,2	2,36	SNMX 1205QN-WM			■	■		■						■
		1,20	12,70	6,35	5,2		SNMX 120512QN-WF			■	■		■						■
SNMX .. QN-ALU ..			12,70	6,35	5,2	2,36	SNMX 1205QN-ALU		■	■									
		1,20	12,70	6,35	5,2		SNMX 120512QN-ALU		■	■									
SNKU... AZR SM..			15,88	6,00	5,70	3,65	SNKU 1405 AZR SM			■	■		■			■			■
LNMX .. WFF ..		10,0	6,50	6,50	3,5	0,50	LNMX 100605 WFF				■		■						■
		10,0	6,50	6,50	3,5	0,80	LNMX 100608 WFF				■		■						■
		15,0	10,0	10,0	4,5	0,40	LNMX 151004 WFF				■		■						■
		15,0	10,0	10,0	4,5	0,80	LNMX 151008 WFF				■		■						■
		15,0	10,0	10,0	4,5	1,60	LNMX 151016 WFF				■		■						■
LNMX .. WMM ..		10,0	6,50	6,50	3,5	0,50	LNMX 100605R WMM				■		■						■
		10,0	6,50	6,50	3,5	0,50	LNMX 100605L WMM				■		■						■
		10,0	6,50	6,50	3,5	0,80	LNMX 100608R WMM				■		■						■
		10,0	6,50	6,50	3,5	0,80	LNMX 100608L WMM				■		■						■
		15,0	10,0	10,0	4,5	0,40	LNMX 151004R WMM				■		■						■
		15,0	10,0	10,0	4,5	0,40	LNMX 151004L WMM				■		■						■
		15,0	10,0	10,0	4,5	0,80	LNMX 151008R WMM				■		■						■
		15,0	10,0	10,0	4,5	0,80	LNMX 151008L WMM				■		■						■
		15,0	10,0	10,0	4,5	1,60	LNMX 151016R WMM				■		■						■
		15,0	10,0	10,0	4,5	1,60	LNMX 151016L WMM				■		■						■
LNMX .. ALU ..		10,0	6,50	6,50	3,5	0,50	LNMX 100605 ALU		■	■									
		15,0	10,0	10,0	4,5	0,40	LNMX 151004 ALU		■	■									
		15,0	10,0	10,0	4,5	0,80	LNMX 151008 ALU		■	■									

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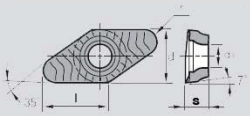
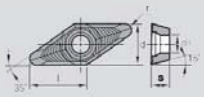
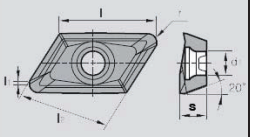
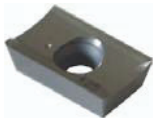
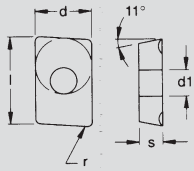
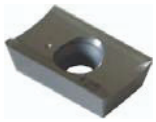
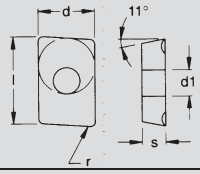
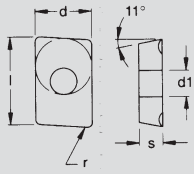
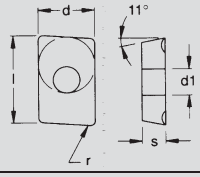
	Form Figure	Abmessungen Dimensions						Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades												
		l	l1	l2	d	s	r			CT28		K10		KTS20	KTE20	DiaX	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	KZN20	PTT20	PTT28	PTT35
VCKT .. ALU		15,60			12,70	5,56	3,0	VCKT 220530 ALU				■			■											
VDKT .. ALU		8,80			6,35	2,87	1,0	VDKT 11T210 ALU				■			■											
		6,70			6,35	2,87	2,0	VDKT 11T220 ALU				□			□											
XEKT .. ALU		18,00	1,40	16,40		5,00	0,4	XEKT 19M504 ALU				■			■											
		18,00	1,00	16,40		5,00	0,8	XEKT 19M508 ALU				■			■											
		18,00	0,60	16,40		5,00	1,2	XEKT 19M512 ALU				■			■											
		17,50	0,50	16,40		5,00	1,6	XEKT 19M516 ALU				■			■											
		17,50	0,50	16,40		5,00	1,8	XEKT 19M518 ALU				□			□											
		17,50	0,50	16,40		5,00	2,0	XEKT 19M520 ALU				■			■											
		17,00	0,70	16,40		5,00	3,0	XEKT 19M530 ALU				■			■											
		17,00	0,50	16,40		5,00	3,2	XEKT 19M532 ALU				■			■											
		16,50	0,50	16,40		5,00	4,0	XEKT 19M540 ALU				■			■											
		16,00	0,40	16,40		5,00	5,0	XEKT 19M550 ALU				■			■											
		24,50	1,50	21,90		6,35	0,4	XEKT 250604 ALU				■			■											
		24,50	1,20	21,90		6,35	0,8	XEKT 250608 ALU				■			■											
		24,50	0,80	21,90		6,35	1,2	XEKT 250612 ALU				□			□											
		24,50	0,40	21,90		6,35	1,6	XEKT 250616 ALU				□			□											
		24,00	0,50	21,90		6,35	2,0	XEKT 250620 ALU				□			□											
		23,70	0,60	21,90		6,35	3,0	XEKT 250630 ALU				□			□											
		23,70	0,40	21,90		6,35	3,2	XEKT 250632 ALU				□			□											
		22,80	1,20	21,90		6,35	4,0	XEKT 250640 ALU				□			□											
		22,70	0,40	21,90		6,35	5,0	XEKT 250650 ALU				■			■											
 XPHX...		10,50			6,70	3,50	0,5	XPHX 11T304 FR ALU				■		■	■	■							■			
		10,50			6,70	3,50	0,8	XPHX 11T308 FR ALU				□		□	■	□							□			
		10,50			6,70	3,50	1,2	XPHX 11T312 FR ALU				□		□	■	□							□			
		10,50			6,70	3,50	1,6	XPHX 11T316 FR ALU				□		□	■	□							□			
		10,50			6,70	3,50	2,0	XPHX 11T320 FR ALU				□		□	■	□							□			
 XPHX...		16,00			9,45	5,26	0,8	XPHX 1705 FR ALU				■		■	■	■							■			
		16,00			9,45	5,26	1,2	XPHX 170512 FR ALU				□		□	■	□							□			
		16,00			9,45	5,26	1,6	XPHX 170516 FR ALU				□		□	■	□							□			
		16,00			9,45	5,26	2,4	XPHX 170524 FR ALU				□		□	■	□							□			
		16,00			9,45	5,26	3,0	XPHX 170530 FR ALU				□		□	■	□							□			
		16,00			9,45	5,26	4,0	XPHX 170540 FR ALU				□		□	■	□							□			
XPKT...		10,50			6,70	3,50	0,5	XPKT 11T305 PDR							■		■	■	■	■	■	■		■	■	■
		10,50			6,70	3,50	0,8	XPKT 11T308 PDR											■		□	□				□
		10,50			6,70	3,50	1,2	XPKT 11T312 PDR											■		□	□				□
		10,50			6,70	3,50	1,6	XPKT 11T316 PDR											■		□	□				□
		10,50			6,70	3,50	2,0	XPKT 11T320 PDR											■		□	□				□
XPKT...		16,00			9,45	5,26	0,8	XPKT 170508 PDR							■		■	■	■	■	■	■		■	■	■
		16,00			9,45	5,26	1,2	XPKT 170512 PDR											■		□	□				□
		16,00			9,45	5,26	1,6	XPKT 170516 PDR											■		□	□				□
		16,00			9,45	5,26	2,4	XPKT 170524 PDR											■		□	□				□
		16,00			9,45	5,26	3,0	XPKT 170530 PDR											■		□	□				□
		16,00			9,45	5,26	4,0	XPKT 170540 PDR											■		□	□				□

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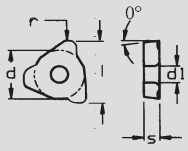
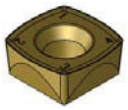
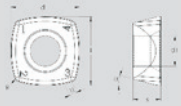
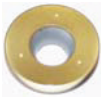
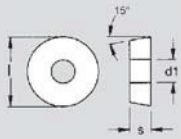
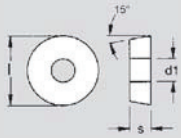
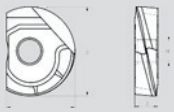
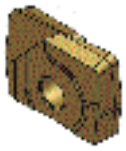
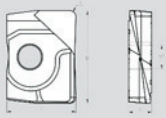
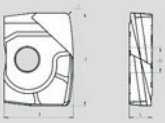
	Form Figure	Abmessungen Dimensions						Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades											
		l	d	s	d1	l1	r			CT28		K10		KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
TOKX ..		18,00	11,70	4,76	4,40		4,0	TOKX 160440 ..						■		■		■	■				■	■	■
 SDLX ..		10,00	10,35	3,97	4,40	1,9	0,8	SDLX 10T308 SM ..						■		■		■			■				■
		13,00	13,25	4,76	4,40	1,3	4,0	SDLX 130410 SM ..						■		■		■			■				■
 RDHX ..		5,00		1,38	2,10			RDHX 0501 MOT ..				■		■			■	■	■				■		■
		7,00		1,98	2,70			RDHX 07T1 MOT ..				■		■			■	■	■				■		■
		7,00		2,38	2,70			RDHX 0702 MOT ..				■		■			■	■	■				■		■
		10,00		3,18	3,90			RDHX 1003 MOT ..				■		■			■	■	■				■		■
		12,00		3,97	3,90			RDHX 12T3 MOT ..				■		■			■	■	■				■		■
		16,00		4,76	5,00			RDHX 1604 MOT ..				■		■			■	■	■				■		■
RDLT ..		10,00		3,18	3,90			RDLT 1003 MOS ..				■		■			■	■	■				■		■
		12,00		3,97	3,90			RDLT 12T3 MOS ..				■		■			■	■	■				■		■
		16,00		4,76	5,00			RDLT 1604 MOS ..				■		■			■	■	■				■		■
M-RD ..		7,00	8,00	2,40				M-RD 080 ..						■											
		8,00	10,00	2,60				M-RD 100 ..						■											
		10,00	12,00	3,00				M-RD 120 ..						■											
		12,00	16,00	4,00				M-RD 160 ..						■											
		15,00	20,00	5,00				M-RD 200 ..						■											
		18,50	25,00	6,00				M-RD 250 ..						■											
		22,50	30,00	7,00				M-RD 300 ..						■											
		23,50	32,00	7,00				M-RD 320 ..						■											
 M-RK .. Eckenradius r +/-0,015qm		8,00	10,00	2,60			0,50	M-RK 100-R05 ..						□											
		8,00	10,00	2,60			1,00	M-RK 100-R10 ..						□											
		8,00	10,00	2,60			2,00	M-RK 100-R20 ..						□											
		10,00	12,00	3,00			0,50	M-RK 120-R05 ..						□											
		10,00	12,00	3,00			1,00	M-RK 120-R10 ..						□											
		10,00	12,00	3,00			2,00	M-RK 120-R20 ..						□											
		12,00	16,00	4,00			0,50	M-RK 160-R05 ..						□											
		12,00	16,00	4,00			1,00	M-RK 160-R10 ..						□											
		12,00	16,00	4,00			2,00	M-RK 160-R20 ..						□											
		12,00	16,00	4,00			3,00	M-RK 160-R30 ..						□											
		15,00	20,00	5,00			0,50	M-RK 200-R05 ..						□											
		15,00	20,00	5,00			1,00	M-RK 200-R10 ..						□											
		15,00	20,00	5,00			2,00	M-RK 200-R20 ..						□											
		15,00	20,00	5,00			3,00	M-RK 200-R30 ..						□											
		18,50	25,00	6,00			0,50	M-RK 250-R05 ..						□											
		18,50	25,00	6,00			1,00	M-RK 250-R10 ..						□											
		18,50	25,00	6,00			2,00	M-RK 250-R20 ..						□											
		18,50	25,00	6,00			3,00	M-RK 250-R30 ..						□											
		22,50	30,00	7,00			1,00	M-RK 300-R10 ..						□											
		22,50	30,00	7,00			2,00	M-RK 300-R20 ..						□											
		22,50	30,00	7,00			3,00	M-RK 300-R30 ..						□											
		23,50	32,00	7,00			1,00	M-RK 320-R10 ..						□											
		23,50	32,00	7,00			2,00	M-RK 320-R20 ..						□											
		23,50	32,00	7,00			3,00	M-RK 320-R30 ..						□											
M-RH .. Eckenradius r +/-0,015qm		8,00	10,00	2,60			1,50	M-RH 100 ..						□											
		10,00	12,00	3,00			1,50	M-RH 120 ..						□											
		12,00	16,00	4,00			1,50	M-RH 160 ..						□											
		15,00	20,00	5,00			2,00	M-RH 200 ..						□											
		18,50	25,00	6,00			2,00	M-RH 250 ..						□											
		22,50	30,00	7,00			2,00	M-RH 300 ..						□											
		23,50	32,00	7,00			2,00	M-RH 320 ..						□											

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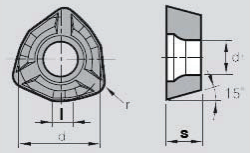
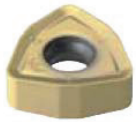
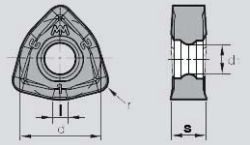
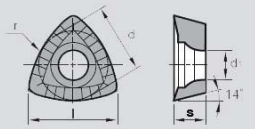
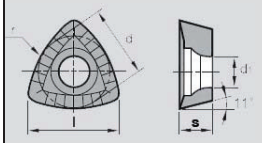
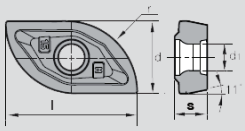
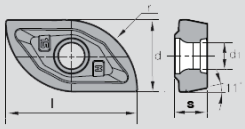
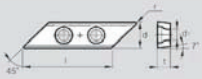
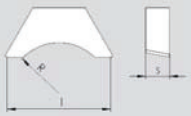
	Form Figure	Abmessungen Dimensions					Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades												
		l	d	s	d1	r			CT28		K10			KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
WDKT... AZR SM		1,8	8,0	3,18	3,3	1,6	WDKT 080316 AZR SM									■		■			■				■
		2,3	10,0	3,97	4,3	2,0	WDKT 10T320 AZR SM									■		■			■				■
		3,1	13,5	5,56	5,56	2,0	WDKT 130520 AZR SM									■		■			■				■
		3,4	15,0	6,35	5,56	2,5	WDKT 150625 AZR SM									■		■			■				■
 WDKT... AZR SM		1,2	6,35	3,18	2,86	1,2	WNMX 060312 AZN SM									■		■			■				■
		1,7	9,52	3,97	3,6	1,6	WNMX 09T316 AZN SM									■		■			■				■
		2,5	12,7	5,56	4,7	2,0	WNMX 130520 AZN SM									■		■			■				■
		3,0	16,0	7,0	5,8	1,2	WNMX 160720 AZN SM									■		■			■				■
ZDMT... WM		8,4	6,73	3,2	2,8	10,0	ZDMT 080310R WM											■							■
		10,6	8,5	3,65	2,8	12,5	ZDMT 110313R WM											■							■
		13,2	10,5	4,75	4,4	16,0	ZDMT130416R WM											■							■
ZPMT... WM		16,1	12,7	5,56	5,6	20,0	ZPMT 160520R WM											■							■
		16,9	12,7	5,56	5,6	25,0	ZPMT 160525R WM											■							■
		17,6	12,7	5,56	5,6	31,5	ZPMT 160531R WM											■							■
ZPET...-I WM Innen / Internal		16,0	8,0	3,5	2,9	8,0	ZPET 080-I WM											■							■
		19,0	10,4	4,5	3,4	10,0	ZPET 100-I WM											■							■
		24,0	12,9	5,3	4,5	12,5	ZPET 125-I WM											■							■
		28,0	15,4	7,0	5,6	15,0	ZPET 150-I WM											■							■
		28,5	16,4	7,0	5,6	16,0	ZPET 160-I WM											■							■
		38,0	20,7	8,0	6,6	20,0	ZPET 200-I WM											■							■
		48,0	25,9	9,5	8,6	25,0	ZPET 250-I WM											■							■
ZPET...-E WM Außen / External		15,0	6,6	3,1	2,9	8,0	ZPET 080-E WM											■							■
		15,5	8,4	3,8	3,4	10,0	ZPET 100-E WM											■							■
		20,5	10,7	4,5	4,5	12,5	ZPET 125-E WM											■							■
		25,0	12,4	6,5	5,6	15,0	ZPET 150-E WM											■							■
		26,0	13,4	6,5	5,6	16,0	ZPET 160-E WM											■							■
		32,0	16,7	7,0	6,6	20,0	ZPET 200-E WM											■							■
		40,0	20,7	8,5	8,6	25,0	ZPET 250-E WM											■							■

	Form Figure	Abmessungen Dimensions					Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades											
		l	d	s	d1	r			CT28		K10			KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
LCEX..		30,90	9,53	4,50		0,4	LCEX 310404 WF											■						
		30,90	9,53	4,50		0,4	LCEX 310404 WM											■						
SCXT ..		9,52		3,97		1,0	SCXT 09T3 R1							■		■		■						■
		9,52		3,97		2,0	SCXT 09T3 R2							■		■		■						■
		9,52		3,97		3,0	SCXT 09T3 R3							■		■		■						■
SEXT ..		12,70		4,76		1,0	SEXT 1204 R1							■		■		■						■
		12,70		4,76		2,0	SEXT 1204 R2							■		■		■						■
		12,70		4,76		3,0	SEXT 1204 R3							■		■		■						■
		12,70		4,76		4,0	SEXT 1204 R4							■		■		■						■
		12,70		4,76		5,0	SEXT 1204 R5							■		■		■						■
XPKN ..		21,00		4,76		6,0	XPKN 2204 R6							■		■		■						■
		21,00		4,76		7,0	XPKN 2204 R7							■		■		■						■
		21,00		4,76		8,0	XPKN 2204 R8							■		■		■						■
		21,00		4,76		10,0	XPKN 2204 R10							■		■		■						■

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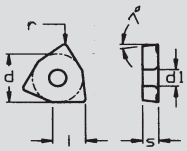
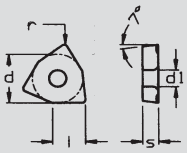
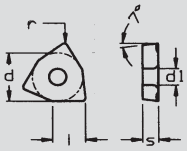
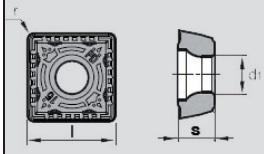
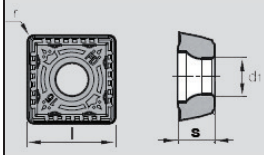
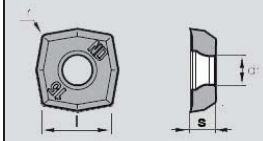
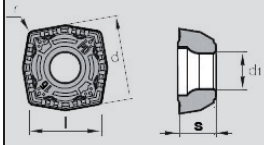
	Form Figure	Abmessungen Dimensions l	d	s	d1	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28		K10			Beschichtet Sorten coated grades KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
WCMT .. WM		3,46	5,56	2,38	2,50	0,8	WCMT 030208 WM																	■
		3,99	6,35	2,38	2,80	0,8	WCMT 040208 WM																	■
		5,07	7,94	3,18	3,40	0,8	WCMT 050308 WM																	■
		6,14	9,52	3,97	3,80	0,8	WCMT 06T308 WM																	■
		8,14	12,70	4,76	5,40	0,8	WCMT 080408 WM																	■
		8,14	12,70	4,76	5,40	1,2	WCMT 080412 WM																	■
WCMT .. WG		3,46	5,56	2,38	2,50	0,8	WCMT 030208 WG											■					
		3,99	6,35	2,38	2,80	0,8	WCMT 040208 WG											■					
		5,07	7,94	3,18	3,40	0,8	WCMT 050308 WG											■					
		6,14	9,52	3,97	3,80	0,8	WCMT 06T308 WG											■					
		8,14	12,70	4,76	5,40	0,8	WCMT 080408 WG											■					
		8,14	12,70	4,76	5,40	1,2	WCMT 080412 WG											■					
WCGT .. ALU		3,46	5,56	2,38	2,50	0,8	WCGT 030208 ALU			■			■											
		3,99	6,35	2,38	2,80	0,8	WCGT 040208 ALU			■			■											
		5,07	7,94	3,18	3,40	0,8	WCGT 050308 ALU			■			■											
		6,14	9,52	3,97	3,80	0,8	WCGT 06T308 ALU			■			■											
		8,14	12,70	4,76	5,40	0,8	WCGT 080408 ALU			■			■											
SPET... ALU		4,7		2,4	2,3	0,4	SPET 040204 ALU			■			■											
		5,1		2,4	2,3	0,4	SPET 050204 ALU			■			■											
		6,2		2,5	2,5	0,5	SPET 060205 ALU			■			■											
		7,5		2,8	2,8	0,8	SPET 07T208 ALU			■			■											
		9,2		3,3	3,4	0,8	SPET 090308 ALU			■			■											
		11,0		4,0	4,0	0,8	SPET 11T308 ALU			■			■											
		13,0		4,5	4,5	1,0	SPET 130410 ALU			■			■											
		15,2		5,0	5,5	1,0	SPET 15M510 ALU			■			■											
		18,2		5,5	6,0	1,0	SPET 180510 ALU			■			■											
SPMT... MD		4,7		2,4	2,3	0,4	SPMT 040204 MD																	■
		5,1		2,4	2,3	0,4	SPMT 050204 MD																	■
		6,2		2,5	2,5	0,5	SPMT 060205 MD																	■
		7,5		2,8	2,8	0,8	SPMT 07T208 MD																	■
		9,2		3,3	3,4	0,8	SPMT 090308 MD																	■
		11,0		4,0	4,0	0,8	SPMT 11T308 MD																	■
		13,0		4,5	4,5	1,0	SPMT 130410 MD																	■
		15,2		5,0	5,5	1,0	SPMT 15M510 MD																	■
		18,2		5,5	6,0	1,0	SPMT 180510 MD																	■
XOET... ALU		4,3		2,4	2,3	0,4	XOET 040204 ALU			■			■											
		4,8		2,4	2,3	0,4	XOET 050204 ALU			■			■											
		5,8		2,5	2,5	0,4	XOET 060204 ALU			■			■											
		6,9		2,8	2,8	0,5	XOET 07T205 ALU			■			■											
		8,4		3,3	3,4	0,5	XOET 090305 ALU			■			■											
		10,0		4,0	4,0	0,6	XOET 11T306 ALU			■			■											
		11,9		4,5	4,5	0,6	XOET 130406 ALU			■			■											
		13,9		5,0	5,5	0,8	XOET 15M508 ALU			■			■											
		16,5		5,5	6,0	0,8	XOET 180508 ALU			■			■											
XOMT... WM		4,3		2,4	2,3	0,4	XOMT 040204 MD																	■
		4,8		2,4	2,3	0,4	XOMT 050204 MD																	■
		5,8		2,5	2,5	0,4	XOMT 060204 MD																	■
		6,9		2,8	2,8	0,5	XOMT 07T205 MD																	■
		8,4		3,3	3,4	0,5	XOMT 090305 MD																	■
		10,0		4,0	4,0	0,6	XOMT 11T306 MD																	■
		11,9		4,5	4,5	0,6	XOMT 130406 MD																	■
		13,9		5,0	5,5	0,8	XOMT 15M508 MD																	■
		16,5		5,5	6,0	0,8	XOMT 180508 MD																	■

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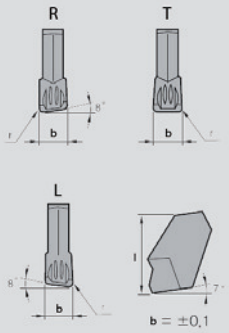
	Form Figure	Abmessungen Dimensions l	b	ap max	r	Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades CT28	K10	Beschichtet Sorten coated grades KTE20	MTM10	PTE20	PTV28	PTE35	PTC30	INOX	PTT20	PTT28	PTT35
M 10N ..		10,00	2,00	1,50	0,2	M 10N 2.00S-0.20T			■			■					■	
		10,00	2,50	2,00	0,2	M 10N 2.50S-0.20T			■			■					■	
		10,00	3,00	2,50	0,3	M 10N 3.00S-0.30T			■			■					■	
		10,00	3,00	3,00	1,5	M 10N 3.00S-1.50R			■			■					■	
MD 22N .. MD 24N ..		22,00	2,00	1,50	0,2	MD 22N 2.00S-0.20T			■			■					■	
		22,00	2,50	2,00	0,2	MD 22N 2.50S-0.20T			■			■					■	
		22,00	3,00	2,50	0,3	MD 22N 3.00S-0.30T			■			■					■	
		24,00	4,00	3,00	0,4	MD 24N 4.00S-0.40T			■			■					■	
		24,00	5,00	3,50	0,4	MD 24N 5.00S-0.40T			■			■					■	
		24,00	6,00	4,00	0,4	MD 24N 6.00S-0.40T			■			■					■	
		22,00	3,00	2,50	1,5	MD 22N 3.00S-1.50R			■			■					■	
		24,00	4,00	3,00	2,0	MD 24N 4.00S-2.00R			■			■					■	
		24,00	6,00	4,00	3,0	MD 24N 6.00S-3.00R			■			■					■	
MD 22N ..-1 MD 24N ..-1 1-schneidig 1-cut		22,00	2,00	1,50	0,2	MD 22N 2.00S-0.20T-1			■			■					■	
		22,00	2,50	2,00	0,2	MD 22N 2.50S-0.20T-1			■			■					■	
		22,00	3,00	2,50	0,3	MD 22N 3.00S-0.30T-1			■			■					■	
		24,00	4,00	3,00	0,4	MD 24N 4.00S-0.40T-1			■			■					■	
		24,00	5,00	3,50	0,4	MD 24N 5.00S-0.40T-1			■			■					■	
		24,00	6,00	4,00	0,4	MD 24N 6.00S-0.40T-1			■			■					■	
		22,00	3,00	2,50	1,5	MD 22N 3.00S-1.50R-1			■			■					■	
		24,00	4,00	3,00	2,0	MD 24N 4.00S-2.00R-1			■			■					■	
		24,00	6,00	4,00	3,0	MD 24N 6.00S-3.00R-1			■			■					■	
MD 31N ..T MD 31N ..R		31,00	8,00	6,50	0,8	MD 31N 8.00S-0.80T			■			■					■	
		31,00	8,00	6,50	4,0	MD 31N 8.00S-4,00R		■	■			■					■	
MTN...		9,3	2,2		0,20	MTN 200T			■			■					■	
		9,3	2,2		0,20	MTN 200R											■	
		9,3	2,2		0,20	MTN 200L											■	
		11,3	3,1		0,20	MTN 300T			■			■					■	
		11,3	3,1		0,20	MTN 300R											■	
		11,3	3,1		0,20	MTN 300L											■	
		11,3	4,1		0,25	MTN 400T			■			■					■	
		11,3	4,1		0,25	MTN 400R											■	
		11,3	4,1		0,25	MTN 400L											■	
		11,4	5,1		0,30	MTN 500T			■			■					■	
		11,4	5,1		0,30	MTN 500R											■	
		11,4	5,1		0,30	MTN 500L											■	
		11,4	6,4		0,35	MTN 600T			■			■					■	
		11,4	6,4		0,35	MTN 600R											■	
		11,4	6,4		0,35	MTN 600L											■	

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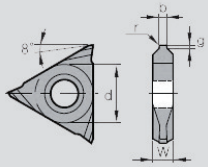
	Form Figure	Abmessungen Dimensions					Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades											
		b	g	W	r	d			CT28		K10		KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
MTX ...		1,23	1,5	2,5	0,2	9,52	MTX 123S-2.5-0.20T				■		■		■		■						■	
		1,43	1,5	2,5	0,2	9,52	MTX 143S-2.5-0.20T				■		■		■		■						■	
		1,73	2,0	2,5	0,2	9,52	MTX 173S-2.5-0.20T				■		■		■		■						■	
		1,83	2,0	2,5	0,2	9,52	MTX 183S-2.5-0.20T				■		■		■		■						■	
		2,03	2,5	2,5	0,2	9,52	MTX 203S-2.5-0.20T				■		■		■		■						■	
		2,28	3,5	2,8	0,2	9,52	MTX 228S-2.8-0.20T				■		■		■		■						■	
		2,78	3,5	3,3	0,3	9,52	MTX 278S-3.3-0.30T				■		■		■		■						■	
		3,28	4,0	3,8	0,3	9,52	MTX 328S-3.8-0.30T				■		■		■		■						■	
		4,28	4,0	4,5	0,4	9,52	MTX 428S-4.5-0.40T				■		■		■		■						■	

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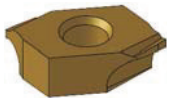
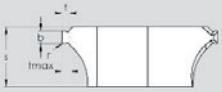
	Form Figure	Abmessungen Dimensions						Bezeichnung Designation	Unbeschichtet Sorten Uncoated grades					Beschichtet Sorten coated grades										
		NB H13	t max	s	b	r	t			CT28		K10		KTE20		MTM10	PTE20	PTV28	PTE35	PTC30	INOX		PTT20	PTT28	PTT35
 MN12..		1,10	0,50	5,4	1,21	0,10	0,49	MN12.110.050 R/L						■		■	■	■							■
		1,30	0,70	5,4	1,41	0,10	0,67	MN12.130.070 R/L						■		■	■	■							■
		1,30	0,85	5,4	1,41	0,10	0,83	MN12.130.085 R/L						■		■	■	■							■
		1,60	0,85	5,4	1,71	0,15	0,83	MN12.160.085 R/L						■		■	■	■							■
		1,60	1,00	5,4	1,71	0,15	0,97	MN12.160.100 R/L						■		■	■	■							■
		1,85	1,25	5,4	1,96	0,15	1,23	MN12.185.125 R/L						■		■	■	■							■
		2,15	1,50	5,4	2,26	0,15	1,47	MN12.215.150 R/L						■		■	■	■							■
		2,65	1,50	5,4	2,76	0,15	1,47	MN12.265.150 R/L						■		■	■	■							■
		2,65	1,75	5,4	2,76	0,15	1,72	MN12.265.175 R/L						■		■	■	■							■
		3,15	1,75	5,4	3,26	0,15	1,72	MN12.315.175 R/L						■		■	■	■							■
		4,15	2,00	5,4	4,26	0,15	1,97	MN12.415.200 R/L						■		■	■	■							■
		4,15	2,50	5,4	4,26	0,15	2,47	MN12.415.250 R/L						■		■	■	■							■
		5,15	3,00	5,4	5,26	0,15	2,97	MN12.515.300 R/L						■		■	■	■							■

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Toleranz Abmessung NB H13: (1,10 - 2,65 = +0,14mm / 3,15 - 5,15 = +0,18mm)
Tolerance Dimension NB H13: (1,10 - 2,65 = +0,14mm / 3,15 - 5,15 = +0,18mm)

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