

hard material matters



HyperCoat CTCP115 / CTCP125

EN



CTCP115 / CTCP125

HYPER COAT



Consistent and reliable cutting performance for the ISO-P range.



Security for your work piece

CTCP115 / CTCP125

Look no further - CTCP125 inserts show unbeatable performance.



CTCP115 is the first choice for highly productive steel machining under stable conditions.

This grade guarantees maximum tool life and optimum process security for all applications with highest demands on both heat and wear resistance.

CTCP125 satisfies the demands of steel machining better in terms of productivity and reliability and also offers a broader application range than all previous P25 grades.

This is the **universal steel turning grade**. It may be applied in all industries and for all applications from one-off components to high volume production and the manufacture of small parts or heavy duty machining.

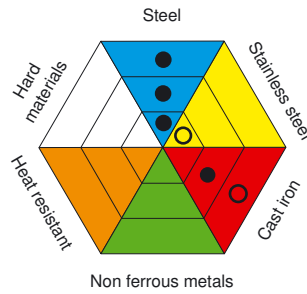


The easy solution to hard steel problems

CTCP115



NEW



Material group

- Main application
- Extended application

Machining application type		
F	M	R
●●●	●●●	●●

- F Fine machining
- M Medium machining
- R Rough machining

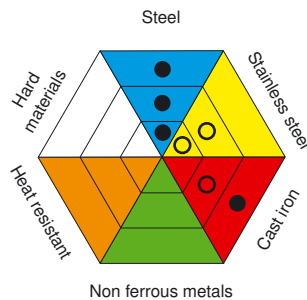
- ideal
- good
- still possible

Stability / degree of interrupted cut			
○	○	⊕	⊕
●●●	●●●	●	

- optimum
- good

- ⊕ medium
- ⊕ difficult

CTCP125



Material group

- Main application
- Extended application

Machining application type		
F	M	R
●●	●●●	●●●

- F Fine machining
- M Medium machining
- R Rough machining

- ideal
- good
- still possible

Stability / degree of interrupted cut			
○	○	⊕	⊕
●●	●●●	●●●	●●

- optimum
- good

- ⊕ medium
- ⊕ difficult

Application range

Industries

- Automotive industry and subcontractors
- General mechanical engineering
- Power generation
- Oil industry
- Railway vehicles
- Bearing industry
- Heavy duty machining

Typical components

- Gear components
- Bearing rings
- Driveline and structural components
- Components produced on automatic lathes
- Tubes and couplings
- Forgings
- Axles and shafts
- Rings

For numerous steel alloys

- Constructional steels
- Tool steel in general
- Cold working steels
- Hot working steels
- Plastic mould steel
- Cementation steels
- Tempered steels
- Nitriding steels
- Ball bearing steels
- High-speed steels
- Spring steels
- Machining steel
- Valve steels
- Stainless steels

Customer benefits

Product advantages

YOUR benefits

High cutting edge stability
Consistent results



Much increased reliability

Longer tool life
Higher metal removal rates



Enhanced productivity
and economy

Wide application range
Suitable for all steel alloys
Good performance potential
also on cast iron and stainless
steels



Versatility
Reduced storage

Ideal combinations of cutting
materials and chip grooves



Maximum tool life,
wide application range



Recommended tooling systems

MaxiLock S

- The centre screw guarantees a safe connection of the insert and the tool holder.
- Chip evacuation is not hindered by obstructive clamping elements.
- Due to the neutral insert position the effective rake angle is identical to that of the insert form and geometry.



MaxiLock D

- Robust top clamp for safe positioning of the insert in the insert seat.
- Claw, spring and clamping screw (clamping element) = ONE SPARE PART.
- 'All-inclusive' concept with integrated spare shim and screw.
- Clamping key integrated in the shank to reduce packaging volume and storage.
- Reinforced shim, clamped with screw.
- TorxPlus® system. Torque is transmitted better giving safer clamping.
- Optimized insert seat so that precise insert positioning and clamping is possible despite adhesion and wear.



Lab tests

Wear test

Maximum cutting speed, maximum thermal stress on the **CTCP115** cutting edge.

➔ **Reliability in extreme machining conditions.**



Toughness tests

Maximum impact stress in the standardized increasing feed rate test.
When comparable cutting materials break, **CTCP125** shows its strengths.

➔ **Reliability in extreme machining conditions.**



Tests

Practical examples

NEW

PIN C45V

Cutting data: $v_c = 200$ m/min
 $a_p = 2.50$ mm
 $f = 0.38$ mm



Competitor/benchmark

Tool life: 14 min



CERATIZIT CTCP115

Tool life: 21 min

END PIECE 100Cr6

Cutting data: $v_c = 200$ m/min
 $a_p = 0.8 - 1.0$ mm
 $f = 0.30$ mm



Competitor/benchmark

Tool life: 18 min



CERATIZIT CTCP115

Tool life: 24 min



Tests

Practical examples

FLANGE 16MnCr5

Cutting data: $v_c = 220$ m/min
 $a_p = 2.00$ mm
 $f = 0.30$ mm



Competitor/benchmark

Tool life: 25 min

CERATIZIT CTCP125

Tool life: 45 min

DIE X38CrMoV5-3

Cutting data: $v_c = 150$ m/min
 $a_p = 3.00$ mm
 $f = 0.25$ mm

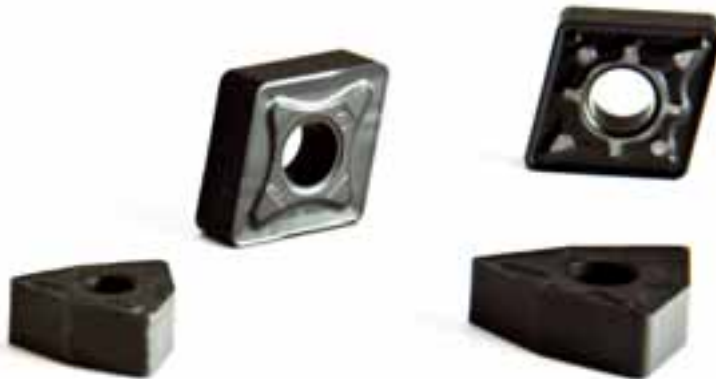


Competitor/benchmark

Tool life: 15 min

CERATIZIT CTCP125

Tool life: 30 min



The CERATIZIT designation system

CTC P125

Manufacturer: CERATIZIT

Cutting material

- W - Uncoated carbide
- C - CVD coated carbide
- P - PVD coated carbide
- T - Uncoated cermet
- E - Coated cermet
- N - Uncoated silicon nitride
- M - Coated silicon nitride
- S - Mixed ceramic
- I - Sialon
- D - PCD
- B - CBN
- L - CBN coated
- H - Sintered HSS

ISO 513

Application range

- e.g.
- 05 - ISO K05/P05
 - 10 -
 - 15 -
 - 25 -

Main application (material)

Variant 1: number

- 1 - Steel
- 2 - Stainless steel
- 3 - Cast iron
- 4 - Light and non ferrous metals, non metals
- 5 - Heat resistant alloys, titanium
- 6 - Hard materials
- 7 - Universal grade

Main application

(machining method)

- 1 - Turning
- 2 - Milling
- 3 - Parting and grooving
- 4 - Drilling
- 5 - Threading
- 6 - Others
- 7 - Universal grade for a variety of applications

Main application (material)

Variant 2: ISO letter

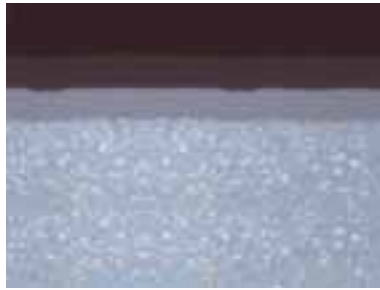
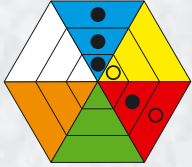
- P - Steel
- M - Stainless steel
- K - Cast iron
- N - Light and non ferrous metals, non metals
- S - Super alloys/titanium
- H - Hard materials
- X - Universal grade for a variety of materials

Grade description

NEW

CTCP115

HC-P15
HC-M10
HC-K25



Composition:

Co 5.8%; mixed carbides 6.4%; WC balance

Grain size:

1 - 2 μm

Hardness:

HV 1550

Coating specification:

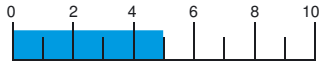
CVD

Ti (C,N) + Al_2O_3 ; 18.5 μm

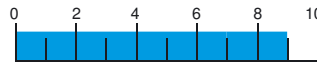
Steel



Toughness



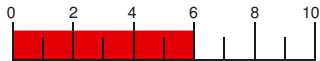
Wear resistance



Cast iron



Toughness

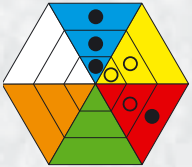


Wear resistance



CTCP125

HC-P25
HC-M20
HC-K25



Composition:

Co 7.0%; mixed carbides 8.0%; WC balance

Grain size:

1 - 2 μm

Hardness:

HV 1450

Coating specification:

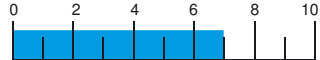
CVD

Ti (C,N) + Al_2O_3 ; 15 μm

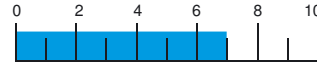
Steel



Toughness



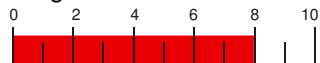
Wear resistance



Cast iron



Toughness



Wear resistance

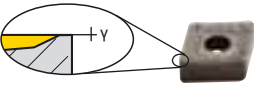


Grade overview

Grade designation	Standard designation	Type of cutting material	Application range							A	R	F	N	S	H								
			01	05	10	15	20	25	30	35	40	45	50	Steel	Stainless steel	Cast iron	Non ferrous metals	Heat resistant materials	Hard materials				
CTCP115	HC-P15	C		■									●	○	●	■	■						
	HC-M10	C		■									○		●	■	■						
	HC-K25	C				■							●		●	■	■						
CTCP125	HC-P25	C			■								●		●	■	■						
	HC-M20	C		■									○		●	■	■						
	HC-K30	C				■							●		●	■	■						
			01	05	10	15	20	25	30	35	40	45	50	● Main application					○ Extended application				

Application range -R28 / -R58 / -R88

NEW

Chip groove	Material	Machining situation and stability				Machining type F / M / R
		○	○	○	○	
 R28 $\gamma = 4^\circ$		●●●	●●●	●●	●	R $a_p: 1,0 - 12,0 \text{ mm}$ $f: 0,25 - 1,1 \text{ mm}$
 R58 $\gamma = 0^\circ$		●●	●●●	●●●	●●	R $a_p: 1,5 - 16,0 \text{ mm}$ $f: 0,3 - 1,3 \text{ mm}$
 R88 $\gamma = -15^\circ$		●	●●	●●●	●●●	R $a_p: 2,5 - 23,0 \text{ mm}$ $f: 0,5 - 1,9 \text{ mm}$

MasterGuide:

- Steel
- Stainless
- Heat resistant
- Main application
- Extended application

Machining situation and stability:

- excellent
- good
- acceptable
- difficult

Recommendation:

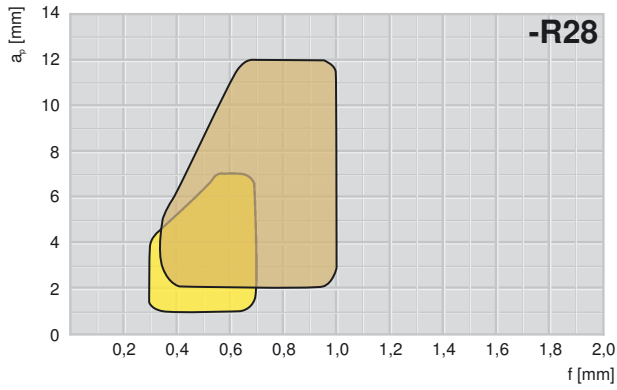
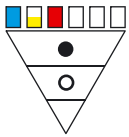
- ideal
- good
- still possible

Machining type:

- F Fine machining
- M Medium machining
- R Rough machining

Chip groove application range

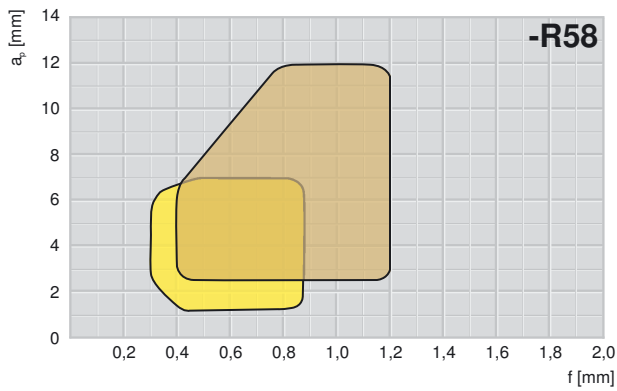
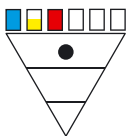
NEW



CNMM 120412EN-R28
 a_p : 1,0 – 7,0 mm
 f : 0,3 – 0,7 mm

CNMM 190624EN-R28
 a_p : 2,0 – 12,0 mm
 f : 0,35 – 1,0 mm

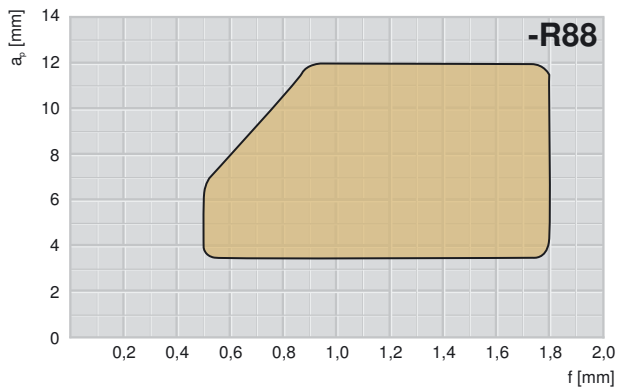
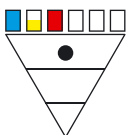
NEW



CNMM 120412EN-R58
 a_p : 1,5 – 7,0 mm
 f : 0,3 – 0,85 mm

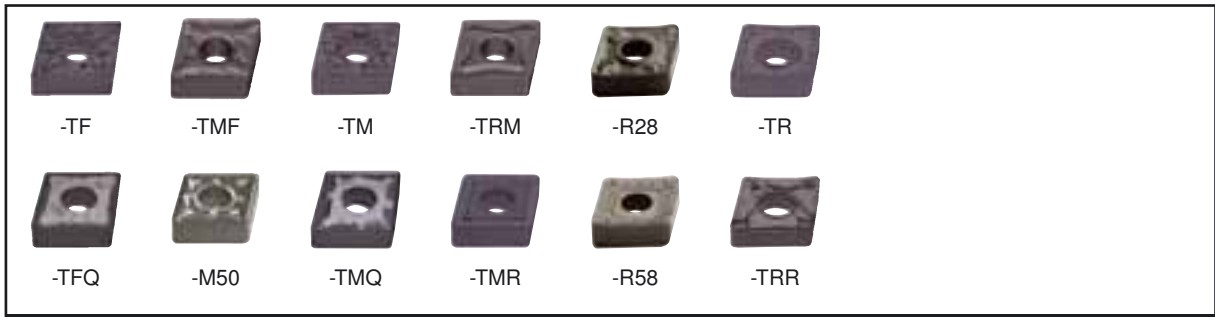
CNMG 190624EN-R58
 a_p : 2,5 – 12,0 mm
 f : 0,4 – 1,2 mm

NEW



CNMM 190624SN-R88
 a_p : 3,5 – 12,0 mm
 f : 0,5 – 1,5 mm

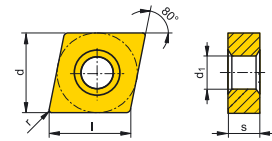
Inserts CNMG, CNMM



r [mm]	Type, description	L N R 	CTCP		l [mm]	d [mm]	s [mm]	d ₁ [mm]
			115	125				
0.40	CNMG 090304EN-TF	N	●		9.70	9.52	3.18	3.81
0.80	CNMG 090308EN-TM		●		9.70	9.52	3.18	3.81
0.40	CNMG 120404EN-M50	N	●	●	12.90	12.70	4.76	5.16
0.40	CNMG 120404EN-TMF		●	●	12.90	12.70	4.76	5.16
0.40	CNMG 120404EN-TF		●		12.90	12.70	4.76	5.16
0.40	CNMG 120404EN-TFQ		●		12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-M50		●		12.90	12.70	4.76	5.16
0.80	CNMM 120408EN-R28		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TFQ		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TF		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TMF		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TM		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TMR		●	●	12.90	12.70	4.76	5.16
0.80	CNMG 120408EN-TRM		●	●	12.90	12.70	4.76	5.16
0.80	CNMM 120408EN-TR		●		12.90	12.70	4.76	5.16
0.80	CNMM 120408SN-TRR		●		12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-M50		●	●	12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-TFQ		●	●	12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-TM		●		12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-TMQ		●	●	12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-TMR		●	●	12.90	12.70	4.76	5.16
1.20	CNMG 120412EN-TRM		●	●	12.90	12.70	4.76	5.16
1.20	CNMM 120412EN-R28		●	●	12.90	12.70	4.76	5.16
1.20	CNMM 120412EN-R58		●	●	12.90	12.70	4.76	5.16
1.20	CNMM 120412EN-TR		●		12.90	12.70	4.76	5.16
1.20	CNMM 120412SN-TRR		●		12.90	12.70	4.76	5.16
1.60	CNMM 120416EN-R28		●	●	12.90	12.70	4.76	5.16
1.60	CNMM 120416EN-R58		●	●	12.90	12.70	4.76	5.16
1.60	CNMG 120416EN-TMR		●		12.90	12.70	4.76	5.16
1.60	CNMG 120416EN-TRM		●		12.90	12.70	4.76	5.16



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces CNMG 090304EN-TF CTCP115

Inserts

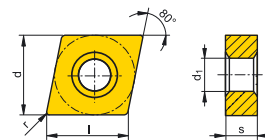
CNMG, CNMM, CNMT



r [mm]	Type, description	L N R	CTCP15	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.80	CNMG 160608EN-TM		●				16.10	15.88	6.35	6.35
1.20	CNMG 160612EN-TMR		●	●			16.10	15.88	6.35	6.35
1.20	CNMG 160612EN-TRM		●	●			16.10	15.88	6.35	6.35
1.20	CNMM 160612EN-R28		●	●			16.10	15.88	6.35	6.35
1.20	CNMM 160612EN-R58		●	●			16.10	15.88	6.35	6.35
1.20	CNMM 160612EN-TR		●				16.10	15.88	6.35	6.35
1.20	CNMM 160612SN-TRR		●				16.10	15.88	6.35	6.35
1.60	CNMM 160616EN-R28	N	●	●			16.10	15.88	6.35	6.35
1.60	CNMM 160616EN-R58		●	●			16.10	15.88	6.35	6.35
1.60	CNMG 160616EN-TMR		●				16.10	15.88	6.35	6.35
1.60	CNMG 160616EN-TRM		●				16.10	15.88	6.35	6.35
1.60	CNMM 160616EN-TR		●				16.10	15.88	6.35	6.35
1.60	CNMM 160616SN-TRR		●				16.10	15.88	6.35	6.35
1.20	CNMG 160612EN-TM		●				16.10	15.88	6.35	6.35
1.20	CNMG 190612EN-TMR		●	●			19.30	19.05	6.35	7.94
1.20	CNMM 190612EN-R28		●	●			19.30	19.05	6.35	7.94
1.20	CNMM 190612EN-R58		●	●			19.30	19.05	6.35	7.94
1.20	CNMG 190612EN-TRM		●				19.30	19.05	6.35	7.94
1.60	CNMM 190616EN-R28	N	●	●			19.30	19.05	6.35	7.94
1.60	CNMM 190616EN-R58		●	●			19.30	19.05	6.35	7.94
1.60	CNMM 190616SN-R88		●	●			19.30	19.05	6.35	7.94
1.60	CNMG 190616EN-TM		●				19.30	19.05	6.35	7.94
1.60	CNMG 190616EN-TMR		●				19.30	19.05	6.35	7.94
1.60	CNMM 190616EN-TR		●				19.30	19.05	6.35	7.94
1.60	CNMM 190616SN-R80		●				19.30	19.05	6.35	7.94
1.60	CNMM 190616SN-TRR		●				19.30	19.05	6.35	7.94
2.40	CNMM 190624EN-R28		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 190624EN-R58		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 190624EN-R58Q		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 190624SN-R80		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 190624SN-R88		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 190624SN-R88Q		●	●			19.30	19.05	6.35	7.94
2.40	CNMM 250924EN-R58	N	●	●			25.80	25.40	9.52	9.12
2.40	CNMM 250924SN-R88		●	●			25.80	25.40	9.52	9.12
3.20	CNMT 320932SN-R88	N	●	●			32,24	31,75	9,52	9,12



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces CNMG 160608EN-TM CTCP125

Inserts DNMG



-TF -M50 -TRM



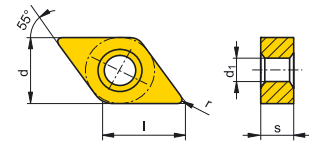
-TMF -TM -TMR

r [mm]	Type, description	LNR 	CTCP		l [mm]	d [mm]	s [mm]	d ₁ [mm]
			115	125				
0.40	DNMG 110404EN-M50	N	●	●	11.60	9.52	4.76	3.81
0.40	DNMG 110404EN-TF		●	●	11.60	9.52	4.76	3.81
0.40	DNMG 110404EN-TMF		●	●	11.60	9.52	4.76	3.81
0.80	DNMG 110408EN-M50		●	●	11.60	9.52	4.76	3.81
0.80	DNMG 110408EN-TF		●	●	11.60	9.52	4.76	3.81
0.80	DNMG 110408EN-TM		●	●	11.60	9.52	4.76	3.81
0.80	DNMG 110408EN-TMF		●	●	11.60	9.52	4.76	3.81
0.80	DNMG 110408EN-TRM		●	●	11.60	9.52	4.76	3.81
1.20	DNMG 110412EN-TMF		●	●	11.60	9.52	4.76	3.81
1.20	DNMG 110412EN-TMR		●	●	11.60	9.52	4.76	3.81



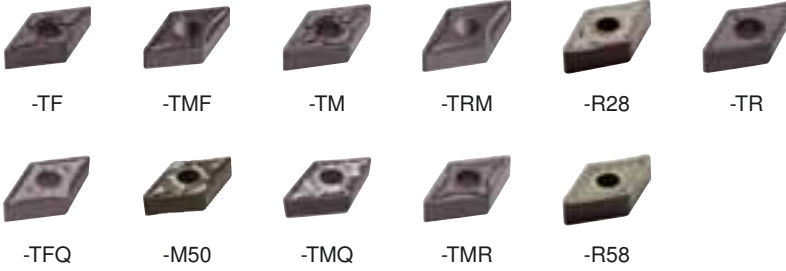
Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○

- Main application
- Extended application
- International CERATIZIT range, for present availability see price list



Ordering example: 10 pieces DNMG 110404EN-M50 CTCP115

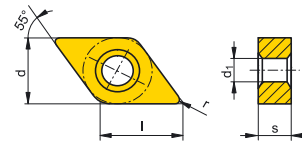
Inserts DNMG, DNMM



r [mm]	Type, description	L N R 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.80	DNMG 150408EN-M50		●				15.50	12.70	4.76	5.16
1.20	DNMG 150412EN-M50		●				15.50	12.70	4.76	5.16
1.20	DNMG 150412EN-TRM		●				15.50	12.70	4.76	5.16
0.40	DNMG 150604EN-M50		●	●			15.50	12.70	6.35	5.16
0.40	DNMG 150604EN-TF		●	●			15.50	12.70	6.35	5.16
0.40	DNMG 150604EN-TFQ		●	●			15.50	12.70	6.35	5.16
0.40	DNMG 150604EN-TMF		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-M50		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TF		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TFQ		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TM		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TMF		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TMQ		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TMR		●	●			15.50	12.70	6.35	5.16
0.80	DNMG 150608EN-TRM		●	●			15.50	12.70	6.35	5.16
0.80	DNMM 150608EN-TR		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-M50		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-TF		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-TM		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-TMQ		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-TMR		●	●			15.50	12.70	6.35	5.16
1.20	DNMG 150612EN-TRM		●	●			15.50	12.70	6.35	5.16
1.20	DNMM 150612EN-R28		●	●			15.50	12.70	6.35	5.16
1.20	DNMM 150612EN-R58		●	●			15.50	12.70	6.35	5.16
1.20	DNMM 150612EN-TR		●	●			15.50	12.70	6.35	5.16
1.60	DNMG 150616EN-TM		●	●			15.50	12.70	6.35	5.16
1.60	DNMG 150616EN-TRM		●	●			15.50	12.70	6.35	5.16
1.60	DNMM 150616EN-R28		●	●			15.50	12.70	6.35	5.16
1.60	DNMM 150616EN-R58		●	●			15.50	12.70	6.35	5.16



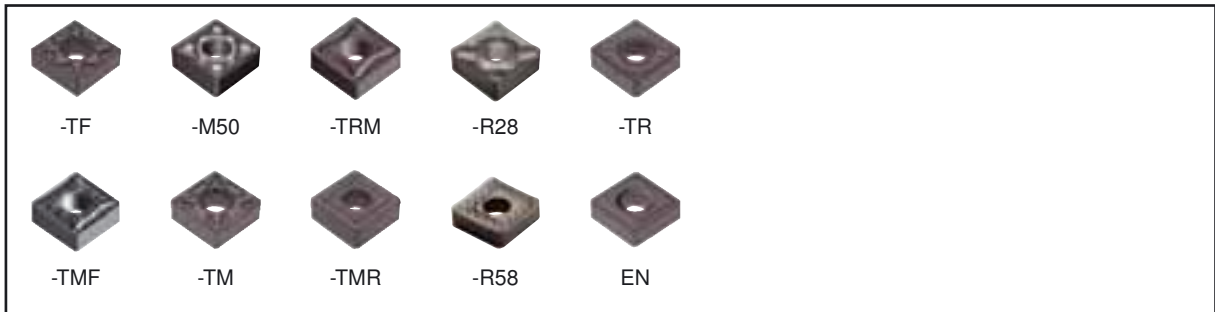
Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces DNMG 150404EN-M50 CTCP125

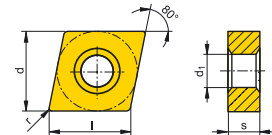
Inserts SNMG, SNMM



r [mm]	Type, description	LNR 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.80	SNMG 090308EN		●				9.52	9.52	3.18	3.81
0.40	SNMG 120404EN-TF		●				12.70	12.70	4.76	5.16
0.80	SNMG 120408EN-M50		●	●			12.70	12.70	4.76	5.16
0.80	SNMG 120408EN-TM		●	●			12.70	12.70	4.76	5.16
0.80	SNMG 120408EN-TMF		●				12.70	12.70	4.76	5.16
0.80	SNMG 120408EN-TMR		●	●			12.70	12.70	4.76	5.16
0.80	SNMM 120408EN-TR	N	●				12.70	12.70	4.76	5.16
1.20	SNMG 120412EN-M50		●	●			12.70	12.70	4.76	5.16
1.20	SNMG 120412EN-TM		●				12.70	12.70	4.76	5.16
1.20	SNMG 120412EN-TMR		●	●			12.70	12.70	4.76	5.16
1.20	SNMG 120412EN-TRM		●				12.70	12.70	4.76	5.16
1.20	SNMM 120412EN-TR	N	●				12.70	12.70	4.76	5.16
1.60	SNMG 120416EN-TM		●				12.70	12.70	4.76	5.16
1.20	SNMG 150612EN-TMR		●	●			15.88	15.88	6.35	6.35
1.20	SNMM 150612EN-R28	N	●	●			15.88	15.88	6.35	6.35
1.20	SNMM 150612EN-R58		●	●			15.88	15.88	6.35	6.35
1.20	SNMM 150612EN-TR		●				15.88	15.88	6.35	6.35
1.60	SNMG 150616EN-TMR		●	●			15.88	15.88	6.35	6.35
1.60	SNMM 150616EN-R28		●	●			15.88	15.88	6.35	6.35
1.60	SNMM 150616EN-R58		●	●			15.88	15.88	6.35	6.35



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○

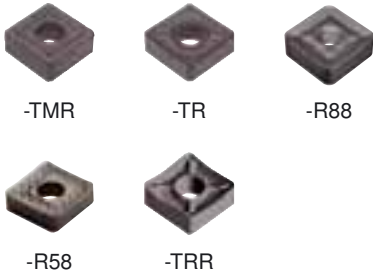


- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces SNMG 090308EN CTCP125

Inserts

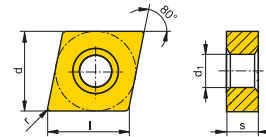
SNMG, SNMM, SNMT



r [mm]	Type, description	L N R 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
1.20	SNMG 190612EN-TMR		●				19.05	19.05	6.35	7.94
1.20	SNMM 190612EN-R58		●	●			19.05	19.05	6.35	7.94
1.60	SNMG 190616EN-TMR		●				19.05	19.05	6.35	7.94
1.60	SNMM 190616EN-R58		●	●			19.05	19.05	6.35	7.94
1.60	SNMM 190616EN-TR	N	●	●			19.05	19.05	6.35	7.94
1.60	SNMM 190616SN-R88		●	●			19.05	19.05	6.35	7.94
1.60	SNMM 190616SN-TRR		●				19.05	19.05	6.35	7.94
2.40	SNMM 190624EN-R58		●	●			19.05	19.05	6.35	7.94
2.40	SNMM 190624SN-R88		●	●			19.05	19.05	6.35	7.94
2.40	SNMM 250724EN-R58		●	●			25.40	25.40	7.94	9.12
2.40	SNMM 250724EN-TR		●				25.40	25.40	7.94	9.12
2.40	SNMM 250724SN-R88		●	●			25.40	25.40	7.94	9.12
2.40	SNMM 250724SN-TRR	N	●	●			25.40	25.40	7.94	9.12
2.40	SNMM 250924EN-R58		●	●			25.40	25.40	9.52	9.12
2.40	SNMM 250924SN-R88		●	●			25.40	25.40	9.52	9.12
3.20	SNMM 250732SN-R88		●	●			25.40	25.40	7.94	9.12
3.20	SNMM 250932SN-R88		●	●			25.40	25.40	9.52	9.12
3.20	SNMM 310932SN-R88	N	●	●			31.75	31.75	9.52	9.12
3.20	SNMT 310932SN-R88		●	●			31.75	31.75	9.52	9.12



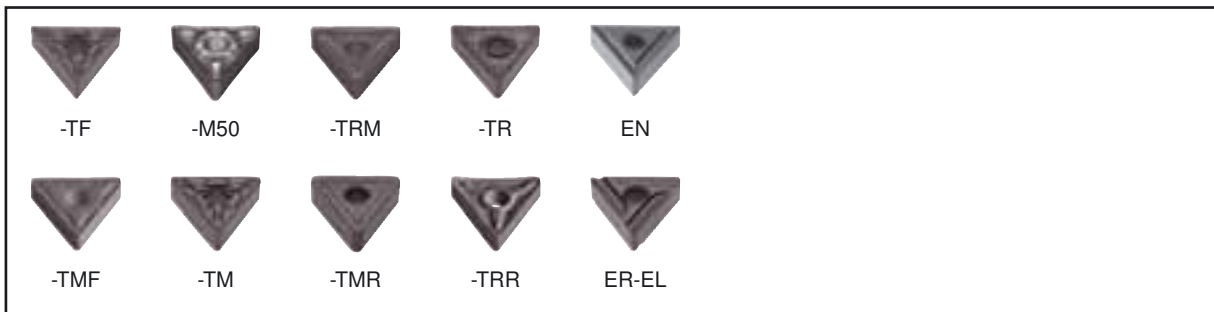
Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○




- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces SNMG 090308EN CTCP125

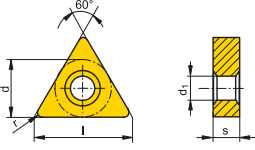
Inserts TNMG, TNMM



r [mm]	Type, description	L N R 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.40	TNMG 110304EN-TF	N	●				11.00	6.35	3.18	2.26
0.40	TNMG 160404EN-M50	N	●	●			16.50	9.52	4.76	3.81
0.40	TNMG 160404EN-TF		●	●			16.50	9.52	4.76	3.81
0.40	TNMG 160404EN-TMF		●	●			16.50	9.52	4.76	3.81
0.40	TNMG 160404ER	R	●				16.50	9.52	4.76	3.81
0.80	TNMG 160408EL	L	●				16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-M50	N	●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-TF		●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-TM		●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-TMF		●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-TMR		●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408EN-TRM		●	●			16.50	9.52	4.76	3.81
0.80	TNMG 160408ER	R	●				16.50	9.52	4.76	3.81
0.80	TNMM 160408SN-TRR	N	●				16.50	9.52	4.76	3.81
1.20	TNMG 160412EN-M50		●	●			16.50	9.52	4.76	3.81
1.20	TNMG 160412EN-TM		●	●			16.50	9.52	4.76	3.81
1.20	TNMG 160412EN-TMF		●	●			16.50	9.52	4.76	3.81
1.20	TNMG 160412EN-TMR		●	●			16.50	9.52	4.76	3.81
1.20	TNMG 160412EN-TRM		●	●			16.50	9.52	4.76	3.81
1.20	TNMM 160412EN-TR		●				16.50	9.52	4.76	3.81
0.80	TNMG 220408EN-TM	N	●	●			22.00	12.70	4.76	5.16
0.80	TNMG 220408EN-TMR		●	●			22.00	12.70	4.76	5.16
0.80	TNMG 220408EN-TRM		●	●			22.00	12.70	4.76	5.16
0.80	TNMM 220408EN-TR		●	●			22.00	12.70	4.76	5.16
1.20	TNMG 220412EN-TM		●	●			22.00	12.70	4.76	5.16
1.20	TNMG 220412EN-TMR		●	●			22.00	12.70	4.76	5.16
1.20	TNMG 220412EN-TRM		●	●			22.00	12.70	4.76	5.16
1.20	TNMM 220412EN-TR		●	●			22.00	12.70	4.76	5.16
1.20	TNMM 220412SN-TRR		●	●			22.00	12.70	4.76	5.16
1.60	TNMG 220416EN-TMR		●	●			22.00	12.70	4.76	5.16
1.60	TNMG 220416EN-TRM		●	●			22.00	12.70	4.76	5.16
1.60	TNMM 220416EN-TR		●	●			22.00	12.70	4.76	5.16
1.60	TNMM 270616EN-TR	N	●				27.50	15.88	6.35	6.35
2.40	TNMG 330924EN	N	●				33.00	19.05	9.52	7.94



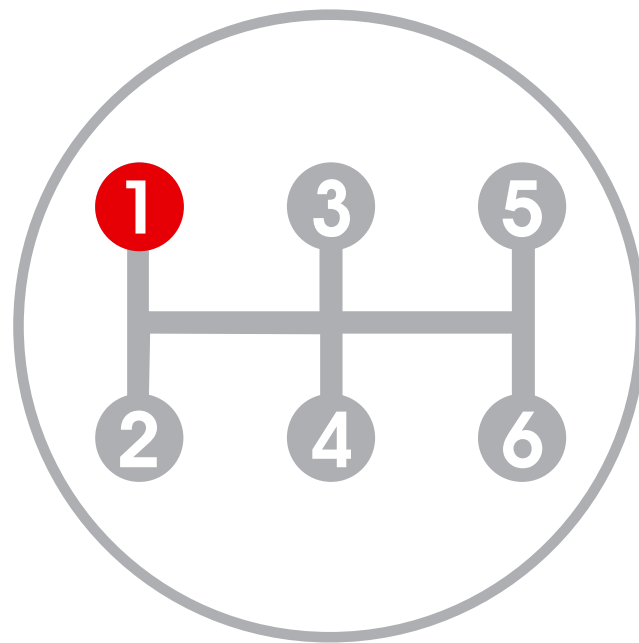
Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces TNMG 110304EN-TF CTCP125





1

The views and focus of our business partners matters

- Instead of talking product with customers, we work on real solutions for business partners.

hard material matters

Inserts VNMG



-F40

-M40

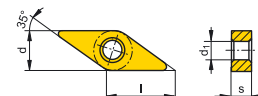


-M50

r [mm]	Type, description	LNR 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.40	VNMG 160404EN-F40	N		●			16.60	9.52	4.76	3.81
0.40	VNMG 160404EN-M40			●			16.60	9.52	4.76	3.81
0.40	VNMG 160404EN-M50		●	●			16.60	9.52	4.76	3.81
0.80	VNMG 160408EN-F40			●			16.60	9.52	4.76	3.81
0.80	VNMG 160408EN-M40			●			16.60	9.52	4.76	3.81
0.80	VNMG 160408EN-M50		●	●			16.60	9.52	4.76	3.81
1.20	VNMG 160412EN-M50			●			16.60	9.52	4.76	3.81



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces VNMG 160404EN-F40 CTCP125

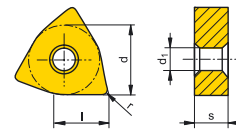
Inserts WNMG



r [mm]	Type, description	L N R 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.40	WNMG 060404EN-TFQ		●				6.50	9.52	4.76	3.81
0.40	WNMG 060404EN-TMF		●				6.50	9.52	4.76	3.81
0.80	WNMG 060408EN-M50		●	●			6.50	9.52	4.76	3.81
0.80	WNMG 060408EN-TFQ		●				6.50	9.52	4.76	3.81
0.80	WNMG 060408EN-TM		●				6.50	9.52	4.76	3.81
0.80	WNMG 060408EN-TMF		●	●			6.50	9.52	4.76	3.81
0.80	WNMG 060408EN-TRM		●				6.50	9.52	4.76	3.81
1.20	WNMG 060412EN-M50		●	●			6.50	9.52	4.76	3.81
1.20	WNMG 060412EN-TRM		●				6.50	9.52	4.76	3.81
0.40	WNMG 080404EN-TF		●				8.69	12.70	4.76	5.16
0.40	WNMG 080404EN-TMF		●				8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-M50		●	●			8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TF	N	●				8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TFQ		●	●			8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TM		●	●			8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TMF		●	●			8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TMR		●				8.69	12.70	4.76	5.16
0.80	WNMG 080408EN-TRM		●				8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-M50		●	●			8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-TFQ		●				8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-TM		●				8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-TMQ		●	●			8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-TMR		●				8.69	12.70	4.76	5.16
1.20	WNMG 080412EN-TRM		●				8.69	12.70	4.76	5.16
1.60	WNMG 080416EN-TMR		●				8.69	12.70	4.76	5.16
1.60	WNMG 080416EN-TRM		●				8.69	12.70	4.76	5.16



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces WNMG 060404EN-TFQ CTCP125

Inserts CCGT, CCMT



-SF

-SM



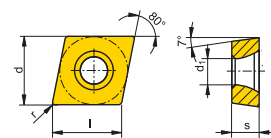
-SMF

-SMQ

r [mm]	Type, description	LNR 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.20	CCGT 060202EN-SF		●				6.40	6.35	2.38	2.80
0.20	CCGT 060202EN-SM		●				6.40	6.35	2.38	2.80
0.40	CCMT 060204EN-SF		●	●			6.40	6.35	2.38	2.80
0.40	CCMT 060204EN-SM		●	●			6.40	6.35	2.38	2.80
0.40	CCMT 060204EN-SMF		●	●			6.40	6.35	2.38	2.80
0.80	CCMT 060208EN-SM		●				6.40	6.35	2.38	2.80
0.80	CCMT 060208EN-SMF		●				6.40	6.35	2.38	2.80
0.40	CCMT 09T304EN-SF		●	●			9.70	9.52	3.97	4.40
0.40	CCMT 09T304EN-SM		●	●			9.70	9.52	3.97	4.40
0.40	CCMT 09T304EN-SMF		●	●			9.70	9.52	3.97	4.40
0.40	CCMT 09T304EN-SMQ		●	●			9.70	9.52	3.97	4.40
0.80	CCMT 09T308EN-SF		●	●			9.70	9.52	3.97	4.40
0.80	CCMT 09T308EN-SM		●	●			9.70	9.52	3.97	4.40
0.80	CCMT 09T308EN-SMF		●	●			9.70	9.52	3.97	4.40
0.80	CCMT 09T308EN-SMQ		●	●			9.70	9.52	3.97	4.40
0.40	CCMT 120404EN-SF		●	●			12.90	12.70	4.76	5.50
0.40	CCMT 120404EN-SM		●	●			12.90	12.70	4.76	5.50
0.40	CCMT 120404EN-SMF		●	●			12.90	12.70	4.76	5.50
0.40	CCMT 120404EN-SMQ		●	●			12.90	12.70	4.76	5.50
0.80	CCMT 120408EN-SF		●	●			12.90	12.70	4.76	5.50
0.80	CCMT 120408EN-SM		●	●			12.90	12.70	4.76	5.50
0.80	CCMT 120408EN-SMF		●	●			12.90	12.70	4.76	5.50
0.80	CCMT 120408EN-SMQ		●	●			12.90	12.70	4.76	5.50
1.20	CCMT 120412EN-SM		●	●			12.90	12.70	4.76	5.50



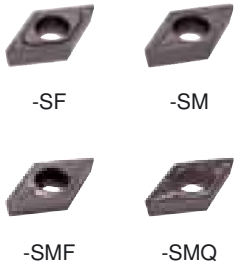
Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces CCGT 060202EN-SF CTCP125

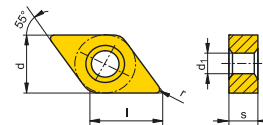
Inserts DCGT, DCMT



r [mm]	Type, description	L N R 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.20	DCGT 070202EN-SF	N	●				7.75	6.35	2.38	2.80
0.20	DCGT 070202EN-SM		●				7.75	6.35	2.38	2.80
0.40	DCMT 070204EN-SF		●	●			7.75	6.35	2.38	2.80
0.40	DCMT 070204EN-SM		●	●			7.75	6.35	2.38	2.80
0.40	DCMT 070204EN-SMF		●	●			7.75	6.35	2.38	2.80
0.40	DCMT 070204EN-SMQ		●	●			7.75	6.35	2.38	2.80
0.80	DCMT 070208EN-SM		●	●			7.75	6.35	2.38	2.80
0.40	DCMT 11T304EL-SMQ	L	●				11.60	9.52	3.97	4.40
0.40	DCMT 11T304EN-SF	N	●	●			11.60	9.52	3.97	4.40
0.40	DCMT 11T304EN-SM		●	●			11.60	9.52	3.97	4.40
0.40	DCMT 11T304EN-SMF		●	●			11.60	9.52	3.97	4.40
0.40	DCMT 11T304EN-SMQ		●	●			11.60	9.52	3.97	4.40
0.40	DCMT 11T304ER-SMQ	R	●				11.60	9.52	3.97	4.40
0.80	DCMT 11T308EN-SF	N	●	●			11.60	9.52	3.97	4.40
0.80	DCMT 11T308EN-SM		●	●			11.60	9.52	3.97	4.40
0.80	DCMT 11T308EN-SMF		●	●			11.60	9.52	3.97	4.40
0.80	DCMT 11T308EN-SMQ		●	●			11.60	9.52	3.97	4.40
1.20	DCMT 11T312EN-SM		●				11.60	9.52	3.97	4.40



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces DCGT 070202EN-SF CTCP125

Inserts

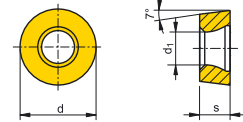
RCGT, RCMT, RCMX



r [mm]	Type, description	LNR 	CTCP		l [mm]	d [mm]	s [mm]	d ₁ [mm]
			115	125				
3.00	RCGT 0602MOEN-SM	N		●	6.00	6.00	2.38	2.80
4.00	RCGT 0803MOEN-SM	N		●	8.00	8.00	3.18	3.40
5.00	RCMT 1003MOSN-SM	N		●	10.00	10.00	3.18	4.00
6.00	RCMT 1204MOSN-SM	N	●	●	12.00	12.00	4.76	4.90
8.00	RCMT 1606MOSN-SM	N	●	●	16.00	16.00	6.35	5.30
10.00	RCMT 2006MOSN-SM	N		●	20.00	20.00	6.35	6.50
12.50	RCMT 2507MOSN-SM	N		●	25.00	25.00	7.94	7.20
16.00	RCMT 3209MOSN-SM	N	●	●	32.00	32.00	9.52	9.50
16.00	RCMX 3209MOSN-R83		●	●	32.00	32.00	9.52	9.50



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces RCGT 0602MOEN-SM CTCP125

Inserts SCMT



-SF



-SM

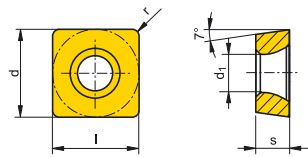


-SMF

r [mm]	Type, description	L N R 				l [mm]	d [mm]	s [mm]	d ₁ [mm]
			CTCP115	CTCP125					
0.40	SCMT 09T304EN-SF	N		●		9.52	9.52	3.97	4.40
0.40	SCMT 09T304EN-SM		●	●		9.52	9.52	3.97	4.40
0.40	SCMT 09T304EN-SMF		●			9.52	9.52	3.97	4.40
0.80	SCMT 09T308EN-SF			●		9.52	9.52	3.97	4.40
0.80	SCMT 09T308EN-SM		●	●		9.52	9.52	3.97	4.40
0.80	SCMT 09T308EN-SMF		●			9.52	9.52	3.97	4.40
0.80	SCMT 120408EN-SF	N		●		12.70	12.70	4.76	5.30
0.80	SCMT 120408EN-SM		●	●		12.70	12.70	4.76	5.30
1.20	SCMT 120412EN-SM		●			12.70	12.70	4.76	5.30



Steel	●	●	●	●
Stainless	○	○	○	○
Cast iron	●	●	●	●
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces SCMT 09T304EN-SF CTCP125

Inserts TCMT



-SF



-SM

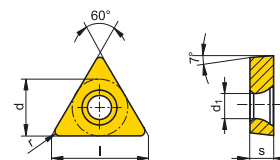


-SMF

r [mm]	Type, description	LNR 	CTCP115	CTCP125			l [mm]	d [mm]	s [mm]	d ₁ [mm]
0.40	TCMT 090204EN-SM	N	●				9.60	5.56	2.38	2.50
0.40	TCMT 110204EN-SF	N	●				11.00	6.35	2.38	2.80
0.40	TCMT 110204EN-SM		●	●			11.00	6.35	2.38	2.80
0.80	TCMT 110208EN-SF		●	●			11.00	6.35	2.38	2.80
0.80	TCMT 110208EN-SM		●				11.00	6.35	2.38	2.80
0.80	TCMT 110208EN-SMF		●				11.00	6.35	2.38	2.80
0.40	TCMT 16T304EN-SF		N	●				16.50	9.52	3.97
0.40	TCMT 16T304EN-SM	●		●			16.50	9.52	3.97	4.40
0.80	TCMT 16T308EN-SF	●		●			16.50	9.52	3.97	4.40
0.80	TCMT 16T308EN-SM	●		●			16.50	9.52	3.97	4.40
0.80	TCMT 220408EN-SM	N	●				22.00	12.70	4.76	5.30



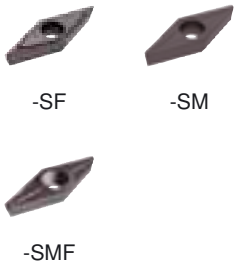
Steel	●	●	●	●	●
Stainless	○	○	○	○	○
Cast iron	●	●	●	●	●
Non ferrous metals	○	○	○	○	○
Heat resistant	○	○	○	○	○
Hard materials	○	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces TCMT 090204EN-SM CTCP125

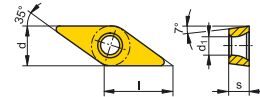
Inserts VCGT, VCMT



r [mm]	Type, description	L N R 	CTCP115		CTCP125		l [mm]	d [mm]	s [mm]	d ₁ [mm]
			●	○	●	○				
0.20	VCGT 110302EN-SF	N	●	○	●	○	11.10	6.35	3.18	2.80
0.40	VCGT 110304EN-SF		●	○	●	○	11.10	6.35	3.18	2.90
0.40	VCMT 110304EN-SMF		●	○	●	○	11.10	6.35	3.18	2.90
0.80	VCGT 110308EN-SF		●	○	●	○	11.10	6.35	3.18	2.90
0.40	VCMT 160404EN-SF	N	●	○	●	○	16.60	9.52	4.76	4.40
0.40	VCMT 160404EN-SM		●	○	●	○	16.60	9.52	4.76	4.40
0.40	VCMT 160404EN-SMF		●	○	●	○	16.60	9.52	4.76	4.40
0.60	VCMT 160406EN-SM		●	○	●	○	16.60	9.52	4.76	4.40
0.80	VCMT 160408EN-SF		●	○	●	○	16.60	9.52	4.76	4.40
0.80	VCMT 160408EN-SM		●	○	●	○	16.60	9.52	4.76	4.40
0.80	VCMT 160408EN-SMF	●	○	●	○	16.60	9.52	4.76	4.40	



Steel	●	○	●	○
Stainless	○	○	○	○
Cast iron	●	○	●	○
Non ferrous metals	○	○	○	○
Heat resistant	○	○	○	○
Hard materials	○	○	○	○



- Main application
- Extended application
- International CERATIZIT range, for present availability see price list

Ordering example: 10 pieces VCGT 110302EN-SF CTCP115

Cutting data

Grades / materials

Work piece material		Type of treatment / alloy		VDI 3323 group	Hardness HB
A	Non alloyed steel	annealed	$\leq 0.15\% \text{ C}$	1	125
		annealed	$0.15\% - 0.45\% \text{ C}$	2	150 - 250
		tempered	$\geq 0.45\% \text{ C}$	3	300
	Low alloyed steel	annealed		6	180
		tempered		7 / 8	250 - 300
		tempered		9	350
	High alloyed steel	annealed		10	200
		temp ered		11	350
	Stainless steel	annealed	ferritic	12	200
		tempered	martensitic	13	325
R	Stainless steel	annealed	ferritic / martensitic	14	200
		quenched	austenitic	14	180
		quenched	duplex	14	230 - 260
		hardened	martensitic / austenitic	14	330
F	Grey cast iron		pearlitic / ferritic	15	180
			pearlitic / martensitic	16	260
	Spheroidal cast iron		ferritic	17	160
			pearlitic	18	-
	Malleable cast iron		ferritic	19	130
			pearlitic	20	230

Cutting data

Coated carbide			
CTCP115	CTCP125		
v_c [m/min]	v_c [m/min]		
250 - 500	190 - 400		
220 - 400	170 - 320		
180 - 300	130 - 240		
250 - 400	170 - 320		
200 - 320	100 - 260		
150 - 280	80 - 220		
180 - 320	130 - 260		
120 - 280	80 - 220		
200 - 320	130 - 260		
150 - 280	110 - 220		
220 - 300	180 - 260		
–	160 - 250		
–	–		
–	80 - 130		
140 - 370	130 - 350		
140 - 330	130 - 300		
190 - 430	180 - 400		
140 - 270	120 - 240		
180 - 520	160 - 480		
150 - 330	140 - 300		

Blank lined writing area consisting of 30 horizontal lines.

CERATIZIT - worldwide

CERATIZIT - worldwide

- Production sites in the three big economic areas with a worldwide network of CERATIZIT sales and support engineers plus many CERATIZIT distribution partners guarantee customer vicinity.
- We maintain the dialogue with our customers and strive for long-term partnerships.

Find your personal distribution partner at:

www.ceratizit.com



- CERATIZIT worldwide production sites and support centres
- CERATIZIT worldwide sales centres
- CERATIZIT worldwide distribution partner network

CERATIZIT - worldwide

Parent company in Luxembourg

CERATIZIT Luxembourg Sàrl
Route de Holzem 101, B.P. 51
L-8201 Mamer

Tel.: +352 312 085-1
Fax: +352 311 911
E-mail: info@ceratizit.com
www.ceratizit.com

Contact for further information:

CERATIZIT Austria Gesellschaft m.b.H.
A-6600 Reutte/Tyrol

Tel.: +43 (5672) 200-0
Fax: +43 (5672) 200-502
E-mail: info.austria@ceratizit.com
www.ceratizit.com



504

www.ceratizit.com - just a click.



hard material matters



504 EN 09.11
7002202

We reserve the right to make technical changes for improvement of the product.