

CARBIDE TURNING INSERTS

CHUCK JAWS
LATHE WORKHOLDING

MACHINE VISES
MAGNETIC CHUCKS

RETENTION KNOBS
ER, DA, TG COLLETS

TOOLHOLDERS
TAP HOLDERS

INDEXABLE DRILLS
TURNING & BORING

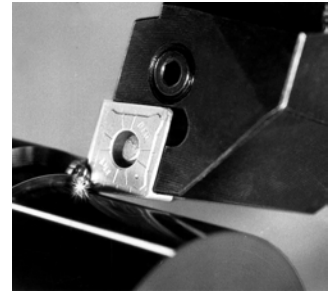
ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD



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CHIPBREAKER INFORMATION

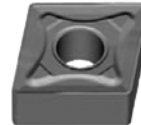
**NEW
ITEM!**



-TM CHIPBREAKER
Ideal for steels and stainless steels



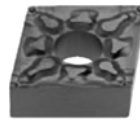
-M52 CHIPBREAKER
Ideal for stainless steels and super alloys



-TRM CHIPBREAKER
Ideal for bearing steel, steels and stainless steels



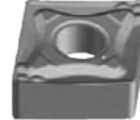
-TMR CHIPBREAKER
Ideal for steels, bearing steel, stainless steels and cast iron



-TF CHIPBREAKER
Ideal for steels, cementation steels and stainless steels



-TMF CHIPBREAKER
Ideal for cementation steels, carbon steels, steels with low to medium strength and stainless steels



-TMM CHIPBREAKER
Ideal for steel in general and low alloyed steels



-M42 CHIPBREAKER
Ideal for stainless steels



GRADE DESIGNATION SYSTEM

C T C 1135

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
D- PCD
B- CBN
H- Sintered HSS

Main Application (material):
1- Steel
2- Stainless steel
3- Cast iron
4- Light and non-ferrous metals
5- Heatresistant alloys, titanium
6- Hard materials
7- Universal grade

ISO 513 Application Range:
ex. 05- ISO K05/P05
10- ISO K10/P10
15- ISO K15/P15
35- ISO K35/P35

Main Application (machining):
1- Turning
2- Milling
3- Parting and grooving
4- Drilling
5- Threading
6- Others

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TURNING INSERTS FOR STEEL

Part Number	Radius	Operation	Cut Conditions	Chip-breaker	Grade	Coating	Depth of Cut (in.)	Speed (SFM)	Feed (ipr)	Price Each	Price Each Box of 10
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CNMG (80° DIAMOND) INSERTS-1/2" IC

CNMG431-003-CZ	0.016	Finishing	Continuous	TF	CTC1115	CVD	0.020-0.040	600-900	.003-.012	\$7.46	\$5.22
CNMG431-008-CZ	0.016	Finishing	Interrupted	TF	CTC1135	CVD	0.020-0.040	600-900	.003-.012	\$7.46	\$5.22
CNMG431-009-CZ	0.016	Medium-Heavy Cutting	Interrupted	TMF	CTC1135	CVD	0.045-0.125	450-600	.012-.020	\$7.46	\$5.22
CNMG431-006-CZ	0.016	Medium Cutting	Continuous	TMF	CTC1125	CVD	0.020-0.080	450-800	.012-.020	\$7.46	\$5.22
CNMG432-009-CZ	0.032	Finishing	Continuous	TM	CTC1115	CVD	0.020-0.040	600-900	.003-.012	\$7.46	\$5.22
CNMG432-027-CZ	0.032	Medium Cutting	Interrupted	TMR	CTC1135	CVD	0.020-0.080	450-800	.012-.020	\$7.46	\$5.22
CNMG432-015-CZ	0.032	Finish-Medium Cutting	Cont/Int	TM	CTC1125	CVD	0.020-0.040	600-900	.003-.012	\$7.46	\$5.22

DNMG (55° DIAMOND) INSERTS-1/2" IC

DNMG431-002-CZ	0.016	Finish - Heavy Cutting	Cont/Int	M42	CTP2120	PVD	0.020-0.040	600-900	.003-.012	\$10.70	\$7.49
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TNMG (60° TRIANGLE) INSERTS-3/8" IC

TNMG331-001-CZ	0.016	Finishing	Continuous	TF	CTC1115	CVD	0.020-0.040	600-900	.003-.012	\$7.36	\$5.15
TNMG331-008-CZ	0.016	Finish - Medium Cutting	Interrupted	TF	CTC1135	CVD	0.020-0.040	600-900	.003-.012	\$7.36	\$5.15
TNMG331-003-CZ	0.016	Medium Cutting	Continuous	TF	CTC1125	CVD	0.020-0.080	450-800	.012-.020	\$7.36	\$5.15
TNMG331-009-CZ	0.016	Heavy Cutting	Interrupted	TMF	CTC1135	CVD	0.045-0.125	450-600	.012-.020	\$7.36	\$5.15
TNMG331-004-CZ	0.016	Heavy Cutting	Continuous	TMF	CTC1125	CVD	0.045-0.125	450-600	.012-.020	\$7.36	\$5.15
TNMG332-015-CZ	0.032	Finishing	Interrupted	TM	CTC1135	CVD	0.020-0.040	600-900	.003-.012	\$7.36	\$5.15
TNMG332-013-CZ	0.032	Finishing	Continuous	TM	CTC1130	CVD	0.020-0.040	600-900	.003-.012	\$7.36	\$5.15
TNMG332-003-CZ	0.032	Medium Cutting	Cont/Int	TMF	CTC1115	CVD	0.020-0.080	450-800	.012-.020	\$7.36	\$5.15
TNMG332-008-CZ	0.032	Heavy Cutting	Cont/Int	TMR	CTC1125	CVD	0.045-0.125	450-600	.012-.020	\$7.36	\$5.15

VNMG (35° DIAMOND) INSERTS-3/8" IC

VNMG331-001-CZ	0.016	Finish-Heavy Cutting	Continuous	F40	CTC1125	CVD	0.020-0.040	600-900	.003-.012	\$13.54	\$9.48
VNMG331-002-CZ	0.016	Finish-Heavy Cutting	Interrupted	M40	CTC1125	CVD	0.020-0.040	600-900	.003-.012	\$13.54	\$9.48

TURNING INSERTS FOR STAINLESS STEEL

Part Number	Radius	Operation	Cut Conditions	Chip-breaker	Grade	Coating	Depth of Cut (in.)	Speed (SFM)	Feed (ipr)	Price Each	Price Each Box of 10
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CNMG (80° DIAMOND) INSERTS-1/2" IC

CNMG431-011-CZ	0.016	Finishing	Cont/Int	M42	CTP2120	PVD	0.020-0.040	350-450	.004-.010	\$7.46	\$5.22
CNMG431-006-CZ	0.016	Heavy Cutting	Continuous	TMF	CTC1125	CVD	0.045-0.125	250-450	.008-.012	\$7.46	\$5.22
CNMG432-035-CZ	0.032	Heavy Cutting	Interrupted	M52	CTP2120	PVD	0.045-0.125	250-450	.008-.012	\$7.46	\$5.22
CNMG432-030-CZ	0.032	Finish - Heavy Cutting	Cont/Int	M42	CTC2135	CVD	0.020-0.040	350-450	.004-.010	\$7.46	\$5.22

DNMG (55° DIAMOND) INSERTS-1/2" IC

DNMG431-002-CZ	0.016	Finish - Heavy Cutting	Cont/Int	M42	CTP2120	PVD	0.020-0.040	350-450	.004-.010	\$10.70	\$7.49
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TNMG (60° TRIANGLE) INSERTS-3/8" IC

TNMG331-001-CZ	0.016	Finishing	Continuous	TF	CTC1115	CVD	0.020-0.040	350-450	.004-.010	\$7.36	\$5.15
TNMG331-008-CZ	0.016	Finish-Medium Cutting	Interrupted	TF	CTC1135	CVD	0.020-0.040	350-450	.004-.010	\$7.36	\$5.15
TNMG331-009-CZ	0.016	Heavy Cutting	Interrupted	TMF	CTC1135	CVD	0.045-0.125	250-450	.008-.012	\$7.36	\$5.15
TNMG331-004-CZ	0.016	Heavy Cutting	Continuous	TMF	CTC1125	CVD	0.045-0.125	250-450	.008-.012	\$7.36	\$5.15
TNMG331-003-CZ	0.016	Medium Cutting	Continuous	TF	CTC1125	CVD	0.020-0.080	250-450	.008-.012	\$7.36	\$5.15
TNMG332-003-CZ	0.032	Medium Cutting	Cont/Int	TMF	CTC1115	CVD	0.020-0.080	250-450	.008-.012	\$7.36	\$5.15
TNMG332-015-CZ	0.032	Finishing	Interrupted	TM	CTC1135	CVD	0.020-0.040	350-450	.004-.010	\$7.36	\$5.15
TNMG332-008-CZ	0.032	Heavy Cutting	Cont/Int	TMR	CTC1125	CVD	0.045-0.125	250-450	.008-.012	\$7.36	\$5.15
TNMG332-013-CZ	0.032	Finishing	Continuous	TM	CTC1130	CVD	0.020-0.040	350-450	.004-.010	\$7.36	\$5.15

VNMG (35° DIAMOND) INSERTS-3/8" IC

VNMG331-001-CZ	0.016	Finishing - Heavy cutting	Continuous	F40	CTC1125	CVD	0.020-0.040	350-450	.004-.010	\$13.54	\$9.48
VNMG331-002-CZ	0.016	Finishing - Heavy cutting	Interrupted	M40	CTC1125	CVD	0.020-0.040	350-450	.004-.010	\$13.54	\$9.48

TURNING INSERTS FOR HIGH TEMP/SUPER ALLOYS

Part Number	Radius	Operation	Cut Conditions	Chip-breaker	Grade	Coating	Depth of Cut (in.)	Speed (SFM)	Feed (ipr)	Price Each	Price Each Box of 10
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CNMG (80° DIAMOND) INSERTS-1/2" IC

CNMG431-011-CZ	0.016	Finishing	Cont/Int	M42	CTP2120	PVD	0.010-0.020	80-200	.004-.010	\$7.46	\$5.22
CNMG431-013-CZ	0.016	Medium-Heavy Cutting	Cont/Int	M34	CTP5115	PVD	0.020-0.060	100-200	.008-.012	\$7.83	\$5.48
CNMG432-035-CZ	0.032	Finishing	Cont/Int	M52	CTP2120	PVD	0.010-0.020	80-200	.004-.010	\$7.46	\$5.22
CNMG432-036-CZ	0.032	Heavy Cutting	Cont/Int	M34	CTP5115	PVD	0.045-0.100	100-200	.008-.012	\$7.83	\$5.48

DNMG (55° DIAMOND) INSERTS-1/2" IC

DNMG431-003-CZ	0.016	Heavy Cutting	Cont/Int	M52	CTP2120	PVD	0.045-0.100	100-200	.008-.012	\$10.70	\$7.49
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TNMG (60° TRIANGLE) INSERTS-3/8" IC

TNMG331-003-CZ	0.016	Finishing	Continuous	TF	CTC1125	CVD	0.010-0.020	80-200	.004-.010	\$7.36	\$5.15
TNMG331-008-CZ	0.016	Finishing	Interrupted	TF	CTC1135	CVD	0.010-0.020	80-200	.004-.010	\$7.36	\$5.15
TNMG331-009-CZ	0.016	Medium - Heavy Cutting	Cont/Int	TMF	CTC1135	CVD	0.020-0.060	100-200	.008-.012	\$7.36	\$5.15
TNMG332-015-CZ	0.032	Finishing	Cont/Int	TM	CTC1135	CVD	0.010-0.020	80-200	.004-.010	\$7.36	\$5.15
TNMG332-008-CZ	0.032	Medium Cutting	Cont/Int	TMR	CTC1125	CVD	0.020-0.060	100-200	.008-.012	\$7.36	\$5.15
TNMG332-009-CZ	0.032	Heavy Cutting	Cont/Int	TRM	CTC1125	CVD	0.045-0.100	100-200	.008-.012	\$7.36	\$5.15

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