

Carbide and cermet inserts

Double sided, negative – Finishing



CNEG-NF	CNMG-ADF	CNMG-DF	CNMG-EF	CNMG-SF	
12	12	09 12	09 12	09 12	Edge length
A44	A43	A43	A43	A43	Page



DNEG-NF	DNEG-NGF	DNMG-ADF	DNMG-DF	DNMG-EF	DNMG-FM	DNMG-SF	
15	15	15	11 15	11 15	15	11 15	Edge length
A56	A56	A53	A53	A56	A56	A53	Page



SNMG-ADF	SNMG-DF	SNMG-EF	SNMG-SF	
12	12	09 12 15	09 12	Edge length
A62	A62	A63	A62	Page



TNMG-ADF	TNMG-DF	TNMG-EF	TNMG-FM	TNMG-SF	
16	16 22	11 16 22	16	11 16 22	Edge length
A77	A77	A79	A79	A78	Page



VNEG-NF	VNEG-NGF	VNMG-ADF	VNMG-DF	VNMG-EF	VNMG-SF	
16	16	16	16	16	16	Edge length
A88	A89	A88	A88	A88	A89	Page



WNEG-NF	WNMG-ADF	WNMG-DF	WNMG-EF	WNMG-NF	WNMG-SF	
08	08	06 08	06 08	06	06 08	Edge length
A93	A92	A92	A93	A93	A92	Page

Double sided, negative, Wiper – Finishing



CNMG-WG	TNMX-WG	WNMG-WG	
12	16	08	Edge length
A43	A77	A93	Page

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Turning

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External tool holders

Holder with double clamping

							
DCLNR/L	DDJNR/L	DSBNR/L	DTGNR/L	DVJNR/L	DVVNN	DWLNR/L	
95°	93°	75°	90°	93°	72.5°	95°	Angle
A197	A198	A199	A200	A202	A201	A203	Page









Holder with knee lever clamping

								
PCBNR/L	PCLNR/L	PDJNR/L	PDNNR/L	PSBNR/L	PSDNN	PSKNR/L	PSSNR/L	
75°	95°	93°	63°	75°	45°	75°	45°	Angle
A204	A205	A206	A207	A208	A210	A211	A212	Page

				
PTFNR/L	PTGNR/L	PTTNR/L	PWLNR/L	
91°	90°	60°	95°	Angle
A213	A215	A214	A217	Page

Holder with multi clamping

								
MCBNR/L	MCLNR/L	MDJNR/L	MDPNN	MRDNN	MRGNR/L	MSBNR/L	MSDNN	
75°	95°	93°	62.5°	45°	90°	75°	45°	Angle
A218	A219	A220	A221	A233	A234	A222	A225	Page

								
MSKNR/L	MSRNR/L	MTFNR/L	MTGNR/L	MTJNR/L	MTJNR/L-Z	MVJNR/L	MVVNN	
75°	75°	90°	90°	93°	93°	93°	72.5°	Angle
A224	A223	A229	A226	A227	A228	A231	A230	Page

	
MWLNR/L	
95°	Angle
A232	Page

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A

Negative inserts

Finishing

SF

P

M

K



Double sided chip breaker with good chip control. Suitable for finishing and medium machining of steel and cast iron.

B

DF

P

K



Double sided chip breaker with good chip control. Suitable for finishing and medium machining of steel and cast iron.

Milling

C

ADF

P

M



Ground, double sided chip breaker with good chip control. Wide range of application due to excellent balance of sharpness and cutting edge stability.

Drilling

EF

M

S



Double sided chip breaker with sharp cutting edge and large rake angle for finishing of stainless steel.

D

NF

S

M



Double sided chip breaker with ground cutting edge and large rake angle for finishing. E-tolerance for high repeatability.

Technical Information

E

NGF

S

M



Double sided chip breaker with ground cutting edge and large rake angle for finishing. E-tolerance for high repeatability.

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Negative inserts

Wiper



Double sided chip breaker with wiper geometry. Allows to double the feed rate and improves the surface quality.

Medium machining



Double sided chip breaker for medium machining. Wide range of application due to excellent balance of sharpness and cutting edge stability.



Double sided chip breaker for medium machining. Wide range of application due to stable cutting edge and large rake angle. Very suitable for machining of steel.



Double sided chip breaker for medium machining. Wide range of application in steel and cast iron.



Double sided chip breaker with surrounding cutting edge. Process reliable machining due to highest cutting edge stability.

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Turning

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A

Negative inserts

Medium machining

NM **S** **M**



Double sided chip breaker with ground cutting edge and large rake angle for medium machining of heat-resistant materials.

Turning

B

EM **M** **S**



Double sided chip breaker with sharp cutting edge and large rake angle. Process reliable medium machining of stainless steel.

Milling

C

EG **M** **S**



Double sided chip breaker with ground cutting edge and large rake angle. Wide range of application for medium machining of stainless steel.

Drilling

D

Basic **P** **K**



Double sided chip breaker with surrounding cutting edge for universal machining of steel and cast iron.

Technical Information

Roughing

DR double sided **P** **K**



Double sided chip breaker with positive rake angle and stable cutting edge for light to medium roughing of steel and cast iron.

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Negative inserts

Roughing

DR single sided **P** **K**



Single sided chipbreaker with positive rake angle and stable cutting edge for light to medium roughing of steel and cast iron.

LR **P** **M**



Single sided chip breaker with curved cutting edge and unique bumpy geometry. Low cutting pressure for process reliable machining. Light roughing of steel and stainless steel.

ER double sided **M** **S**



Double sided chip breaker with large rake angle for low cutting forces. Suitable for roughing of stainless steel.

ER single sided **M** **S**



Single sided chip breaker with large rake angle for low cutting forces. Suitable for roughing of stainless steel.

HDR **P** **K**



Single sided chip breaker with high cutting edge stability and deformation resistance. Excellent for roughing with high cutting depths in steel and stainless steel.

HPR **P** **K**



Single sided chip breaker with high cutting edge stability and large chip space. Excellent for heavy roughing in steel and cast iron.

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Turning

Negative inserts

Roughing

Flat **K**



Double sided insert without chip breaker. Stable cutting edge design, due to missing microgeometry. Excellent for roughing in cast iron.

B

Milling

SNR **S M**



Double sided chip breaker for roughing. Wide range of application due to excellent balance of sharpness and cutting edge stability.

PCBN & PCD inserts

C

Drilling

Flat **N H**



With brazed CBN or PCD cutting edge. For machining of hardened steel (CBN) or non-ferrous metals (PCD).

D

Technical Information

Flat **H K**



Solid CBN insert for machining of steel and cast iron.

Ceramic inserts

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Flat **K H**



Ceramic inserts for machining of low hardened steel and cast iron.

Positive inserts

Fine-finishing

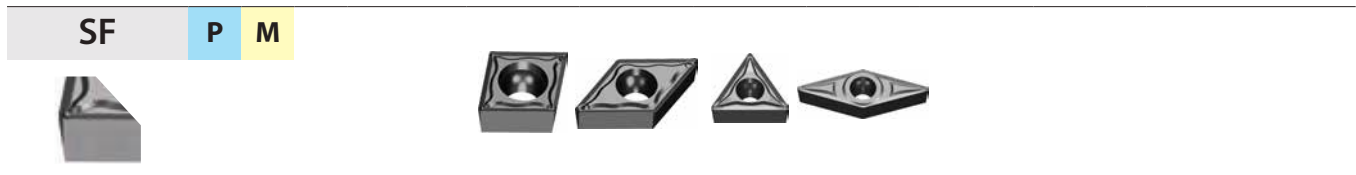


Single sided chip breaker for fine finishing. Sharp cutting edge with large hollow flute, excellently suitable for machining small work pieces. G-tolerance for high repeatability.

Finishing



Single sided chip breaker for fine finishing. Excellent for high surface quality. G-tolerance for high repeatability.



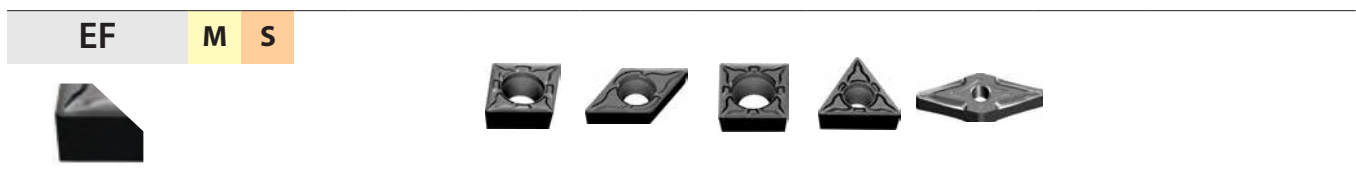
Single sided chip breaker in combination with cermet grades. Geometry with high sharpness for improved chip control and great surface quality. Ideal for machining with small cutting depths and feed rates.



Single sided chip breaker with good chip control. Suitable for finishing to medium machining of steel and cast iron.



Ground, single sided chip breaker with good chip control. Wide range of application due to excellent balance of sharpness and cutting edge stability.



Single sided chip breaker with sharp cutting edge and large rake angle for finishing of stainless steel.

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Positive inserts

Finishing

NF M S



Single sided chip breaker with ground cutting edge and large rake angle for finishing. E-tolerance for high repeatability.

B

NGF M S



Single sided chip breaker with ground cutting edge and large rake angle for finishing. E-tolerance for high repeatability.

Milling

Medium machining

TC K P



Single sided chip breaker with encircling cutting edge. Process reliable machining due to highest cutting edge stability.

C

Drilling

HM P K



Single sided chip breaker for medium machining. Wide range of application due to excellent balance of sharpness and cutting edge stability.

D

Technical Information

EM M S



Single sided chip breaker with sharp cutting edge and large rake angle. Process reliable medium machining of stainless steel.

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Basic P K



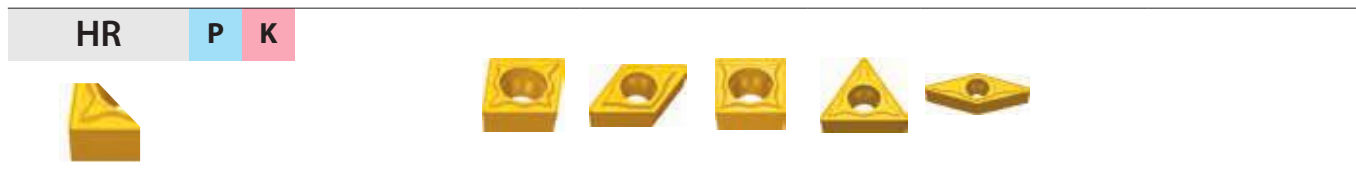
Single sided chip breaker with encircling cutting edge for universal machining of steel and cast iron.

Positive inserts

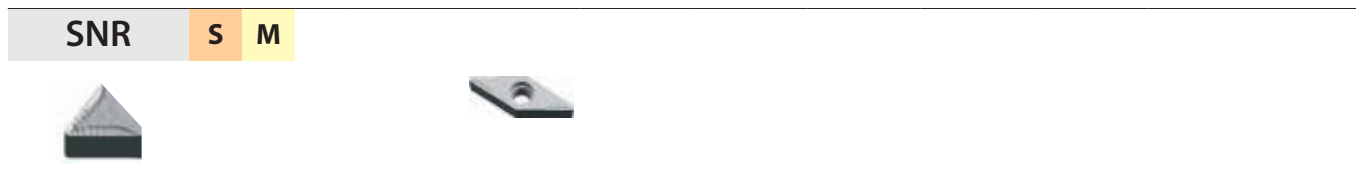
Roughing



Single sided insert without chip breaker. Stable cutting edge design due to missing microgeometry. Excellent for roughing in cast iron.



Single sided chip breaker with positive rake angle and stable cutting edge for light to medium roughing of steel and cast iron.

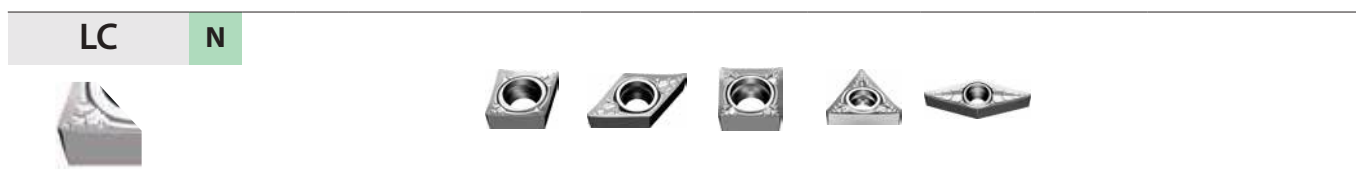


Single sided chip breaker for roughing. Wide range of application due to excellent balance of sharpness and cutting edge stability.



Single sided chip breaker with encircling cutting edge for universal machining of steel and cast iron.

Aluminium machining



Single sided chip breaker with excellent cutting edge design. Sharp cutting edge with positive rake angle. G-tolerance for high repeatability.

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