ISOTURN INSERTS

W	N	M	G	08	04	08	E	GN
1	2	3	4	5	6	7	8	9

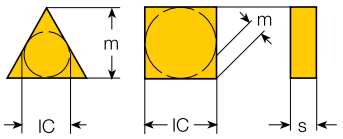
1. Shape

	R	75°	E	80°	W
90°	S	55°	D		L
60°	T	35°	V	55°	K
80°/100°	C	25°	Y	80°	Q

2. Clearance Angle

N 0°	C 7°
B 5°	P 11°
O Other	

3. Tolerance



	m		s	IC	
E		±0.025	±0.025		±0.025
G		±0.025	±0.13		±0.025
M	from	±0.08	±0.13	from	±0.05
	to	±0.18(1)		to	±0.13(1)
U	from	±0.13	±0.13	from	±0.08
	to	±0.38(1)		to	±0.25(1)

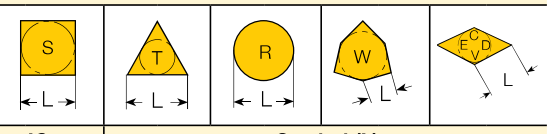
(1) Exact tolerance depends on insert size

IC	Tolerance in mm			
	On m		On IC	
	Class M	Class U	Class M	Class U
6.35	±0.08	±0.13	±0.05	±0.08
9.52	±0.08	±0.13	±0.05	±0.08
12.70	±0.13	±0.20	±0.08	±0.13
15.87	±0.15	±0.27	±0.10	±0.18
19.05	±0.15	±0.27	±0.10	±0.18
25.40	±0.18	±0.38	±0.13	±0.25

4. Type

	A	Without chipbreaker, with hole
	G	Chipbreaker on both sides, with hole
	M, S	Chipbreaker on one side, with hole
	R	Chipbreaker on one side, without hole
	B, W	Countersink on one side, with hole
	T, H	Chipbreaker on one side, with hole and countersink
	P	Neg./pos. on one or both sides, with hole
	Z, X	Special

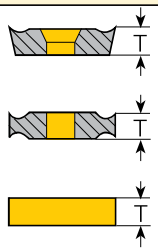
5. Cutting Edge Length



IC		Symbol (L)							
inch	mm	C	D	R	S	T	V	W	Q
5/32	3.97		04		03	06	06	02(1)	
7/32	5.56	05				09			
1/4	6.35	06	07			11	11		
9/32	7.15						12		
	8.00			08					
3/8	9.52	09	11		09	16	16	06	09
	10.00			10					
	12.00			12					
1/2	12.70	12	15		12	22	22	08	12
5/8	15.88	16			15	27			
	16.00			16					
3/4	19.05	19			19	33		13	
	20.00			20					
	25.00			25					
1	25.40				25				

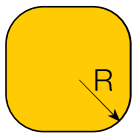
(1) WBMT 06...

6. Thickness



01	=	1.59 mm
T1	=	1.98 mm
02	=	2.38 mm
03	=	3.18 mm
T3	=	3.97 mm
04	=	4.76 mm
06	=	6.35 mm
07	=	7.94 mm

7. Corner Radius



02	=	0.2 mm
04	=	0.4 mm
08	=	0.8 mm
12	=	1.2 mm
16	=	1.6 mm
20	=	2.0 mm
24	=	2.4 mm

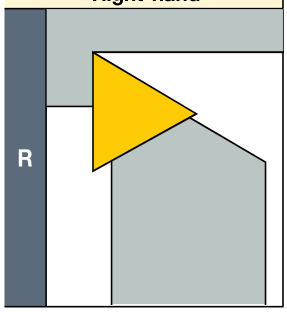
8. Cutting Edge (Optional)

	F	Sharp
	E	Honed (Rounded)
	T	Chamfered (Negative Land)
	S	Chamfered + Honed

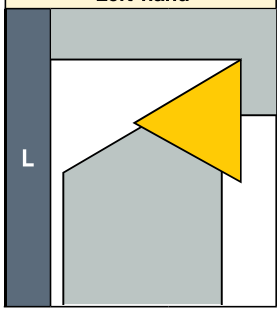
9. Chipformer Designation

SF	AS/AF	TF	NM
PF	../Z-RF/LF(1)	PP	TNM
NF	WF	GN	NR
SM	WG	NMS	RP
14	VL		

Right-hand

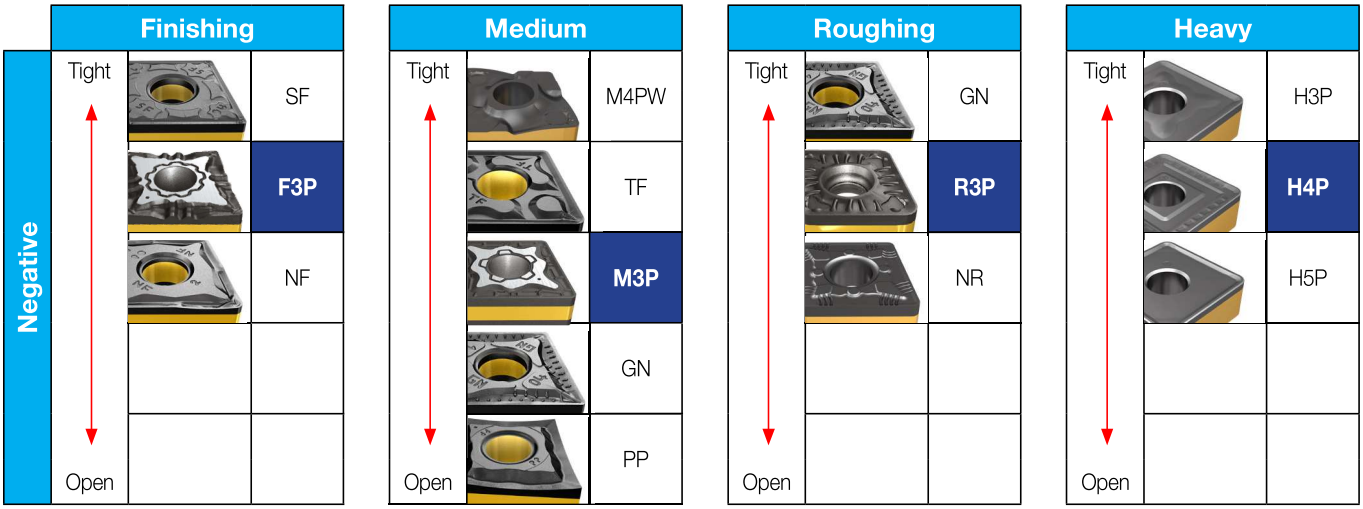


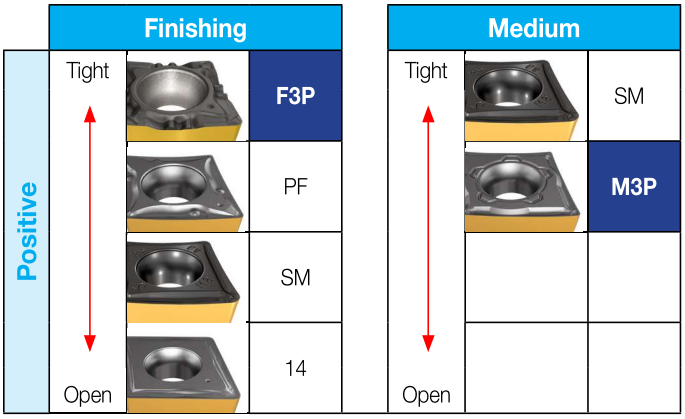
Left-hand



Selection Guide for Chipformers and Grades

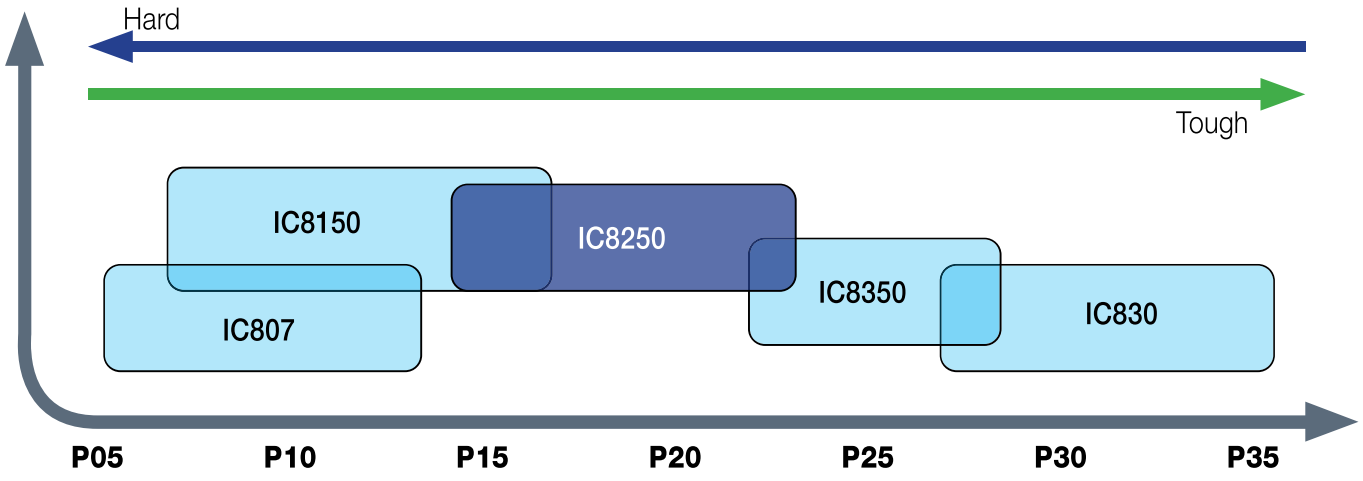
ISO P-Steel





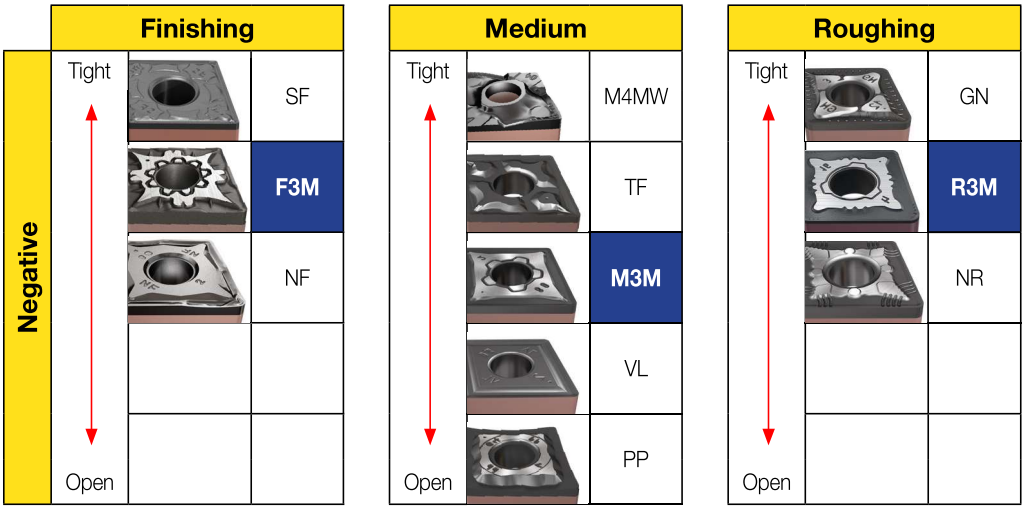
First Choice

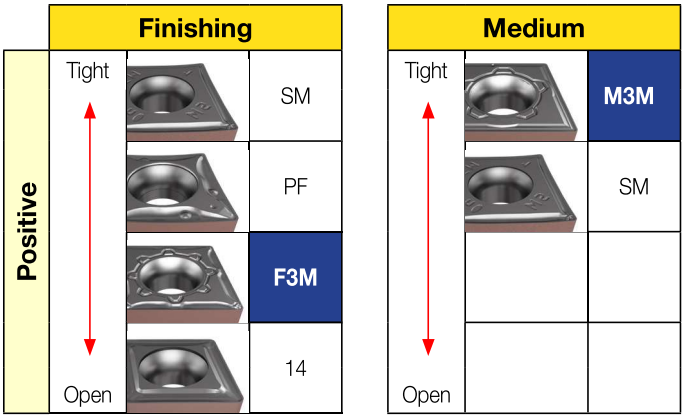
Recommended Carbide Grades



* For CBN and Ceramic grades for hardend steel see page 239

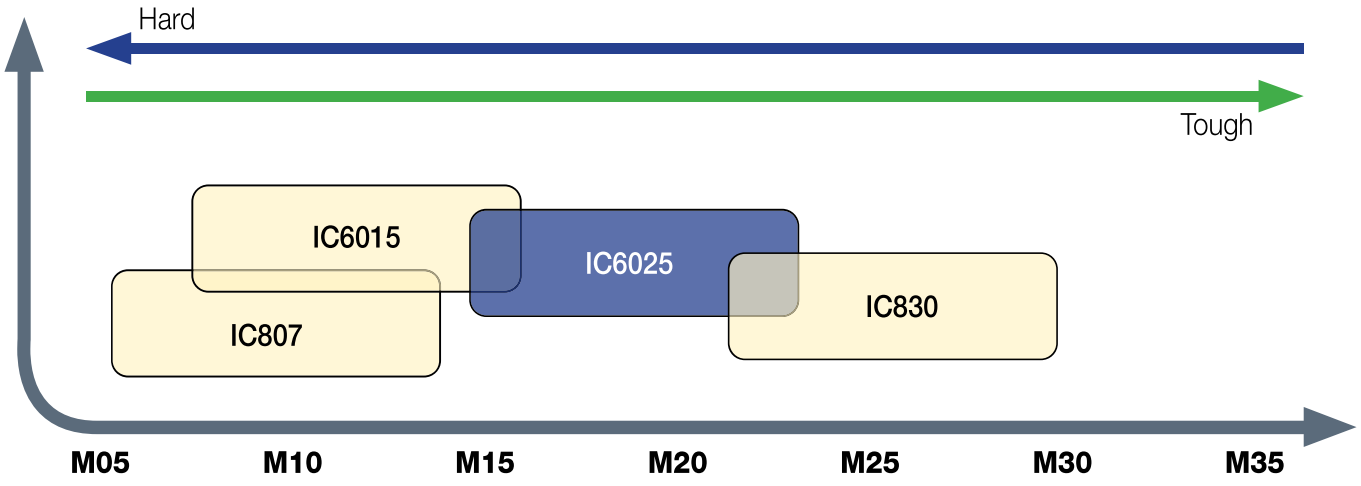
ISO M- Stainless Steel





First Choice

Recommended Carbide Grades



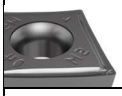
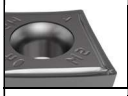
Selection Guide for Chipformers and Grades

ISO K-Cast Iron

Negative

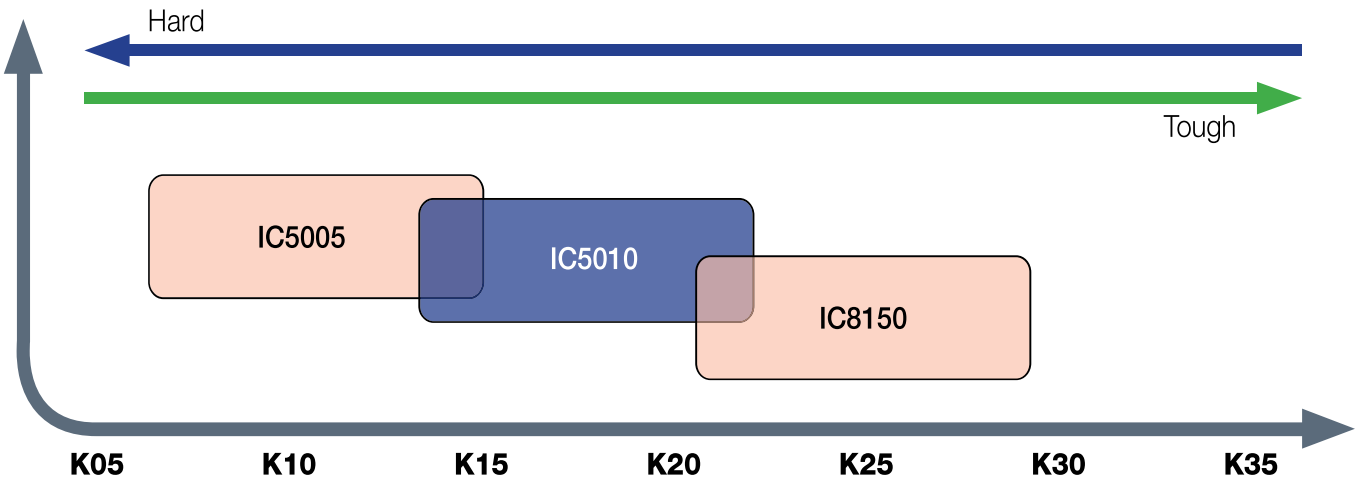
Finishing	Medium	Roughing
Tight  M3P	Tight  GN	Tight  NR
Open  GN	Open  A	Open  A

Positive

Finishing	Medium
Tight  SM	Tight  SM
Open  14	Open  14

First Choice

Recommended Carbide Grades



* For CBN and Ceramic grades for hardend steel see page 239

Selection Guide for Chipformers and Grades

ISO S-High Temp. Alloys

Negative

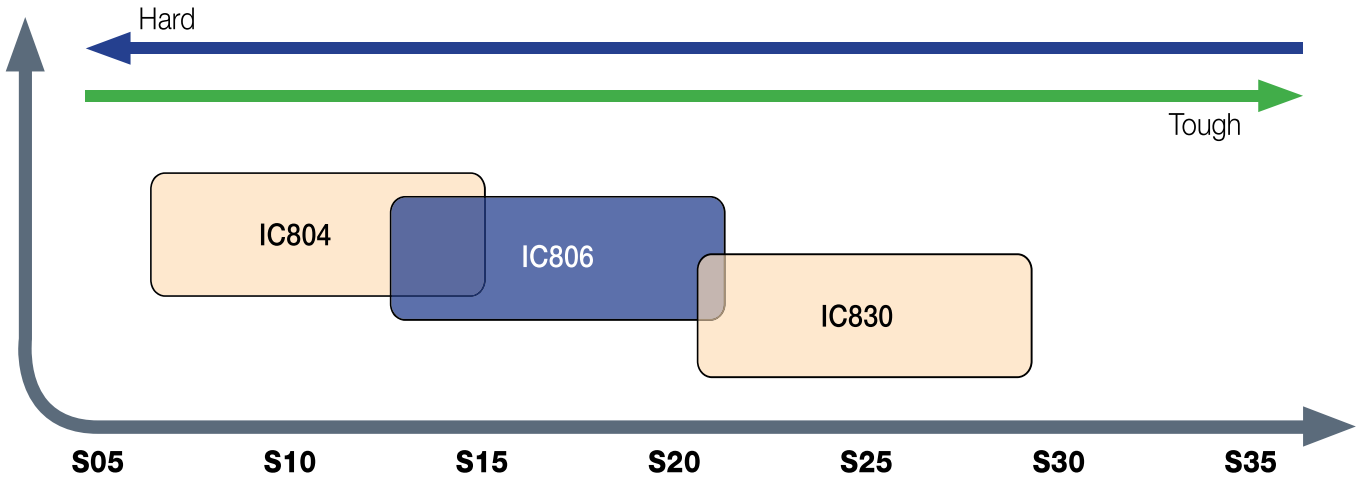
Finishing		Medium	
Tight		Tight	
	F3M		TF
	F3S		**M3M**
			EM-M
			VL
Open		Open	PP

Positive

Finishing		Medium	
Tight		Tight	
	SM		**M3M**
	PF		SM
	F3M		
Open	14	Open	

First Choice

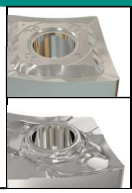
Recommended Carbide Grades



* For CBN and Ceramic grades for hardend steel see page 239

Selection Guide for Chipformers and Grades

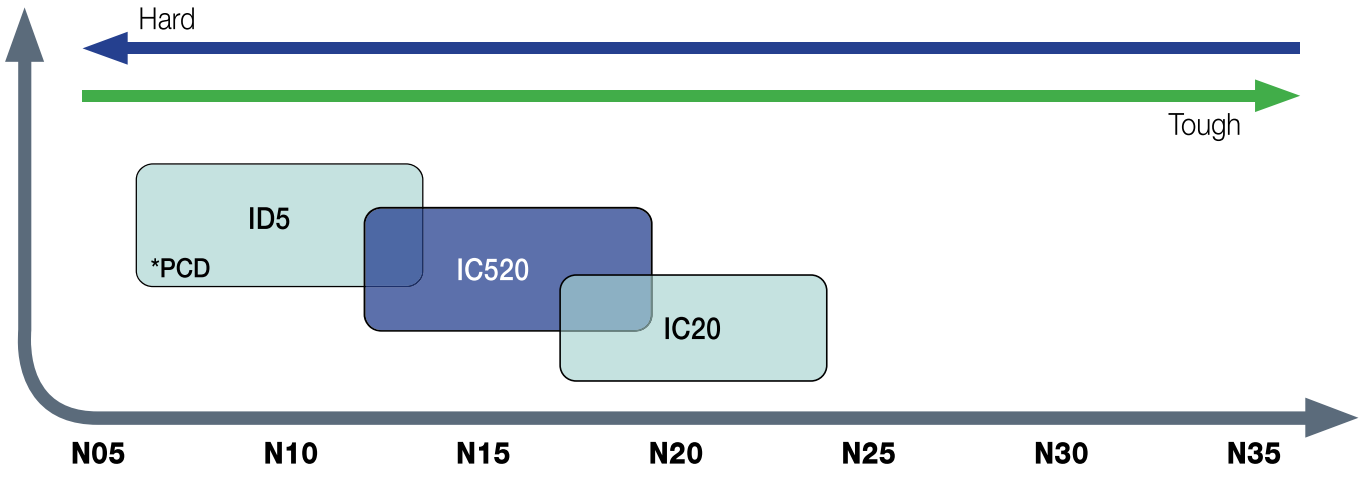
ISO N-Aluminum

	Finishing	Medium	Roughing
Negative	Tight ↕ Open 	Tight ↕ Open 	Tight ↕ Open 
	NF	PP	NMS12
	F3N	**M3N**	

	Finishing
Positive	Tight ↕ Open 
	AS

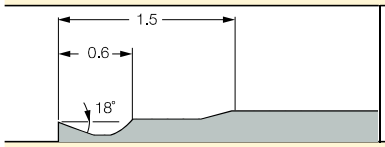
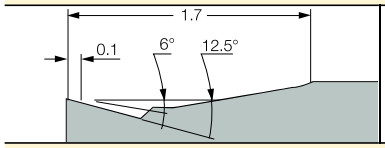
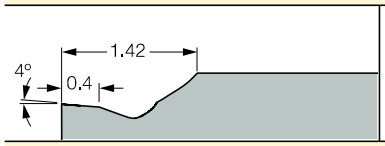
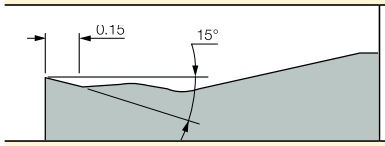
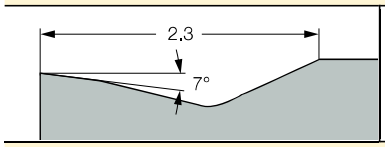
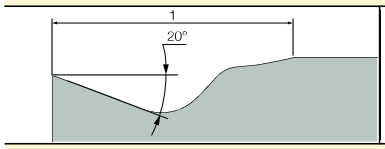
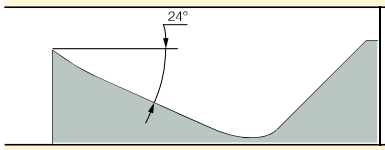
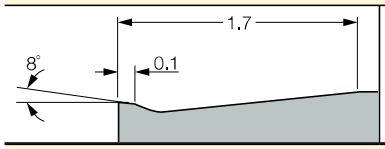
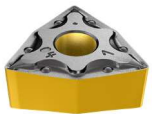
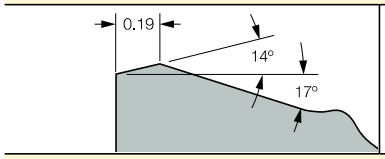
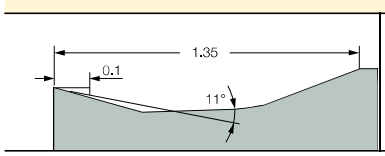
First Choice

Recommended Carbide Grades

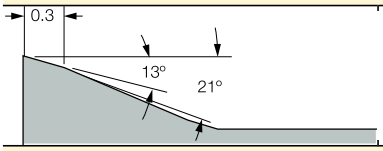
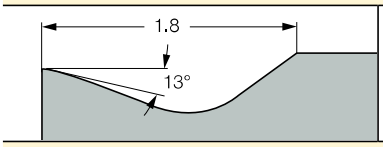
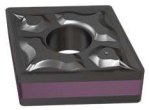
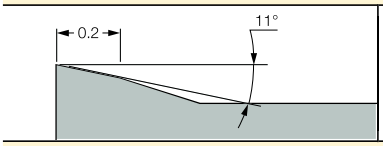
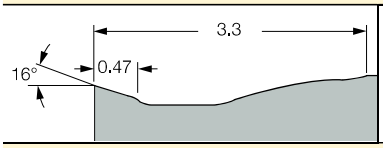
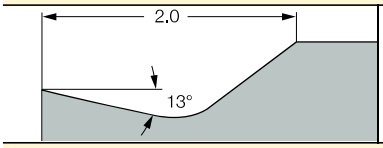
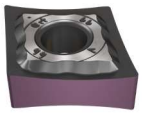
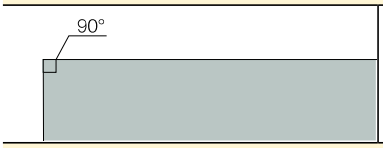
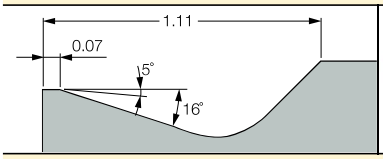
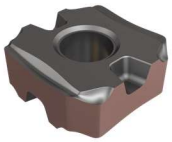
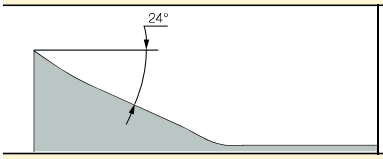
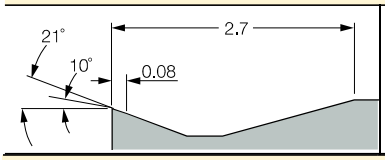
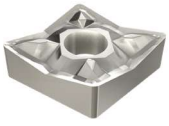
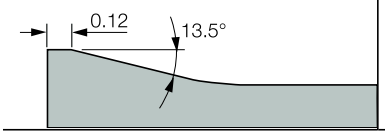


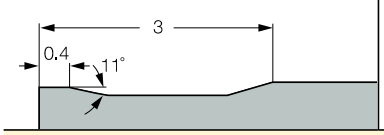
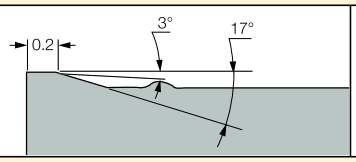
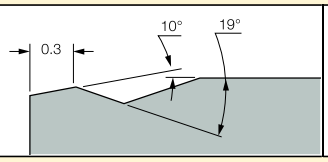
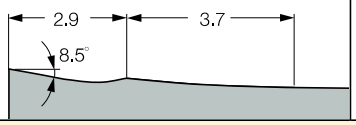
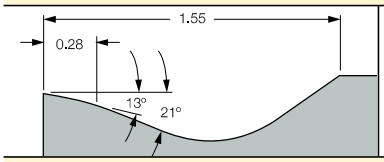
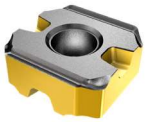
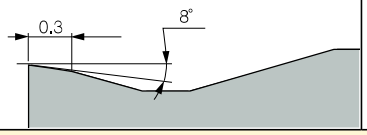
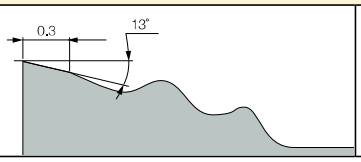
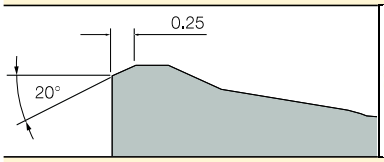
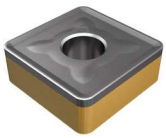
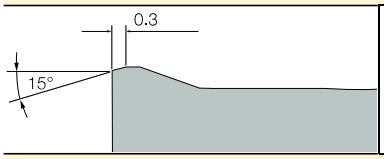
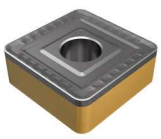
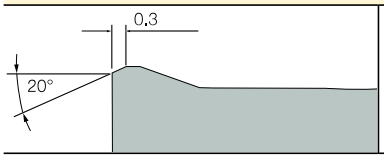
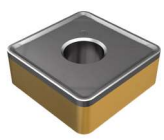
Chipformers

Negative Chipformers

SF Chipformer		
		A unique super finishing chipformer that controls chip flow at very low feeds and cutting depths. Designed to reduce crater wear.
F3P Chipformer		
		Double-sided insert with a positive rake angle to reduce cutting forces for finish machining on steel.
NF Chipformer		
		Double-sided for semi-finishing and finishing applications. Low cutting forces are due to a very sharp edge and positive rake.
F3M Chipformer		
		Double-sided insert with a positive rake angle for finish machining on stainless steel. Its unique deflector geometry with a wavy surface prevents chip hammering.
GN Chipformer		
		Double-sided for general applications. Secure cutting edge for medium and semi-roughing on steel and cast iron.
F3S Chipformer		
		Chipbreaker with positive rake angle for finish machining superalloys and exotic materials.
F3N Chipformer		
		Polished and extra sharp positive insert for machining aluminum and non-ferrous materials for finishing applications.
WF Chipformer		
		Wiper geometry for high feed finishing on soft and gummy materials. Small depths of cut.
M4PW Chipformer		
		Double-sided for roughing applications. Feed range: 0.25 mm/rev to 0.8 mm/rev. Depth of cut from 2.00 to 10.0 mm.
M3P Chipformer		
		Double-sided insert for medium machining on steel with a reinforced cutting edge to increase tool life.

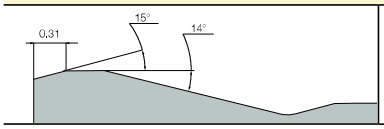
Negative Chipformers

M4MW Chipformer		
		Chipformer for heavy machining applications on stainless steel. The inserts feature a very positive radial helical cutting edge and a positive rake angle.
TF Chipformer		
		Double-sided positive rake angles to prevent strain hardening. The rake angle varies along the edge to a negative angle which prevents chipping. Special design reduces cratering. Used for carbon and alloy steel, stainless steel and high-temp alloys.
M3M Chipformer		
		Double-sided insert for medium machining on stainless steel with a reinforced cutting edge that prevents notch wear at tight radii to increase tool life.
VL Chipformer		
		High positive rake and a special edge preparation used for rough and finish turning on high temperature alloys. Excellent performance on parts such as automotive valves.
PP Chipformer		
		Double-sided, very positive rake, sharp- and positive radial edge for heat-resistant alloys, stainless steel, aluminum alloys and soft, low carbon steel.
A Chipformer		
		Flat inserts, used for short chipping materials such as cast iron.
EM-M Chipformer		
		Double-sided sharp cutting edge with a 16º positive rake angle for machining high temperature alloys at a_p<3 mm.
M3N Chipformer		
		Polished and extra sharp positive insert for machining aluminum and non-ferrous materials for medium applications.
12 Chipformer		
		Single-sided for medium to rough machining on aluminum and soft materials.
R3P Chipformer		
		Chipbreaker for rough machining on steel with a positive rake angle and reinforced cutting edge for better performance and longer tool life.

NR Chipformer		
		Double-sided sharp cutting edge with a 13º positive rake angle for machining high temperature alloys at a_p < 6 mm.
R3M Chipformer		
		Double-sided insert for rough machining on stainless steel with a unique deflector geometry to improve chip control. Includes a wavy surface to prevent chip hammering.
T3P Chipformer		
		Double-sided 6° negative flank trigone insert for high feed turning on steel.
TNM Chipformer		
		Double-sided trigon for roughing applications. Feed ranges: from 0.25 to 0.65 mm/rev. Depth of cut from 2 to 7 mm.
EM-R Chipformer		
		Double-sided sharp cutting edge with a 13º positive rake angle for machining high temperature alloys at a_p < 6 mm.
HT/WG Chipformer		
		Double-sided for roughing applications. Feed range: 0.25 mm/rev to 0.8 mm/rev. Depth of cut from 2.00 to 10.0 mm.
HM Chipformer		
		Feed range: 0.08 mm/rev to 0.75 mm/rev. Depth of cut from 1.5 mm to 8.0 mm.
H3P Chipformer		
		• For heavy roughing applications • Low cutting force for low horse power machines • Excellent chip control due to changeable land and a flexible chip breaker
H4P Chipformer		
		• For heavy roughing applications • For large depth of cut and high feed • Strong cutting edge credit to a wide land and large land angle
H5P Chipformer		
		• For heavy roughing applications • For large depth of cut and high feed • Extremely strong cutting edge credit to a wide land and large land angle • Suitable for high cutting conditions

Negative Chipformers

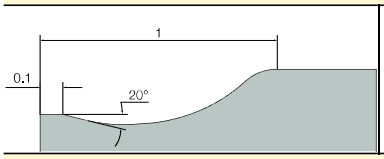
H6P Chipformer



Tangential insert with 4 cutting edges for high metal removal on steel up to 35 mm DOC

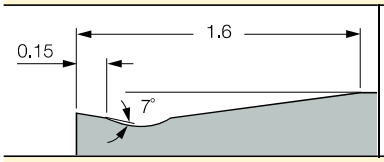
Positive Chipformers

F3P Chipformer



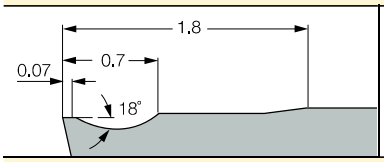
Super finishing and finishing applications, mainly on positive inserts.
Feed range: 0.03-0.20 mm/rev. DOC 0.25-3.0 mm.

PF Chipformer



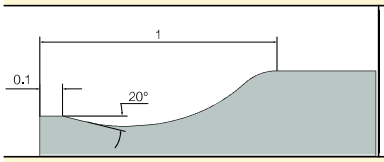
Super finishing and finishing applications, mainly on positive inserts.
Feed range: 0.03-0.20 mm/rev. DOC 0.25-3.0 mm.

SM Chipformer



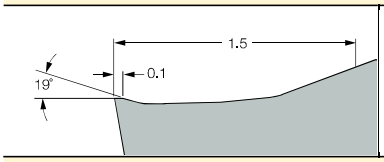
Finishing and boring applications. Feed range: 0.06-0.25 mm/rev. DOC 0.5-2.5 mm.

F3M Chipformer



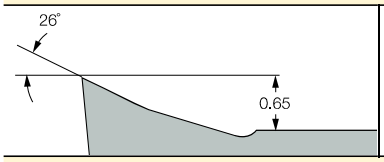
Chipbreaker with positive rake angle for finishing machining of stainless steel, also suitable for superalloys and exotic materials.

14 Chipformer



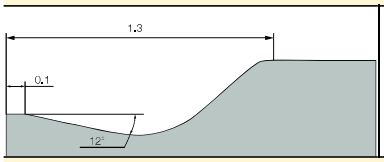
Semi-finishing and finishing. Medium feeds.

AS Chipformer



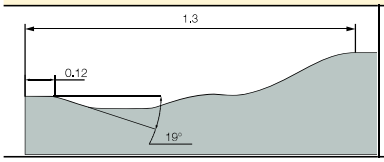
For general use machining on aluminum and soft materials.

M3P Chipformer



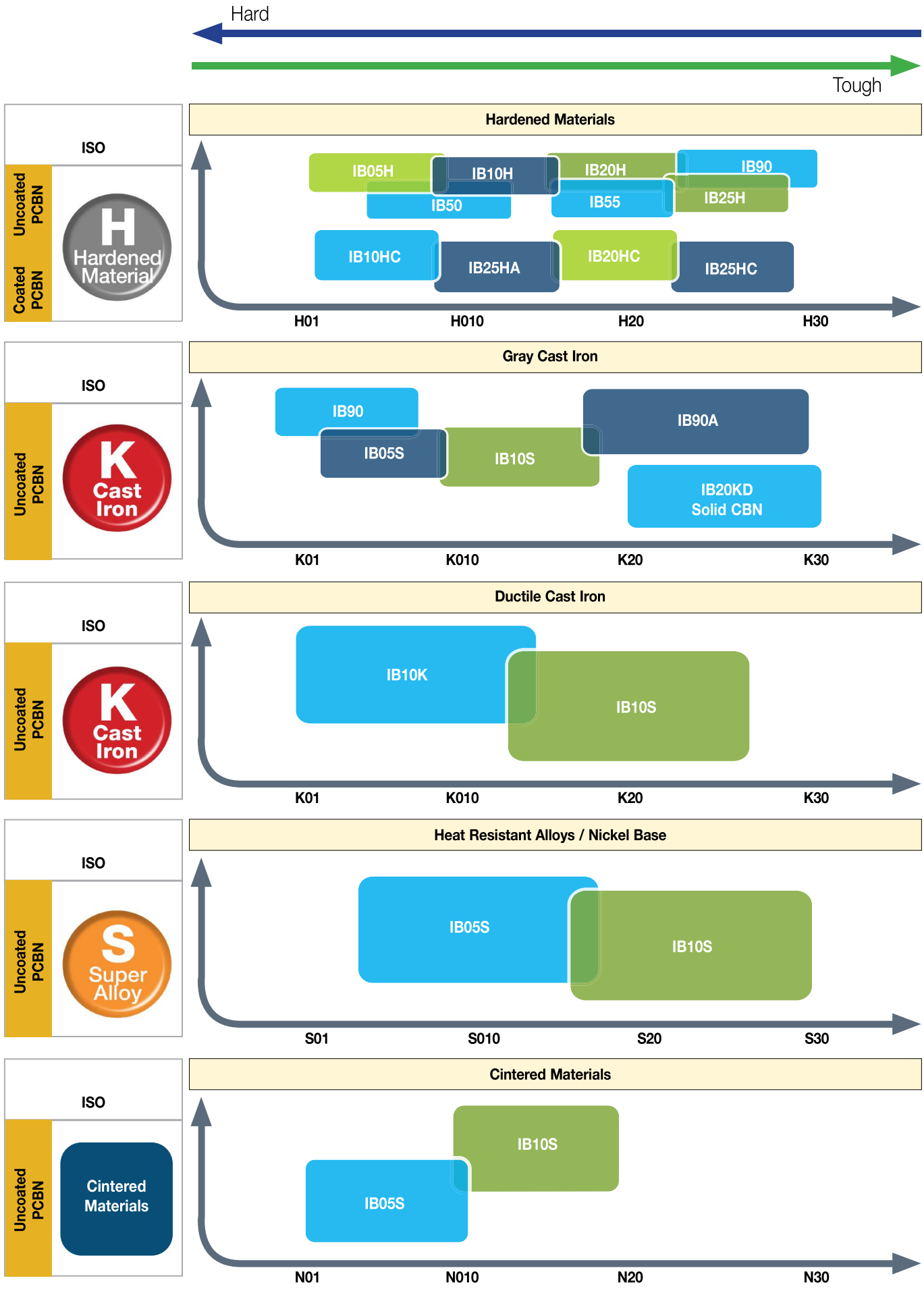
Chipbreaker with reinforced cutting edge and positive rake angles for medium machining steel conditions.

M3M Chipformer

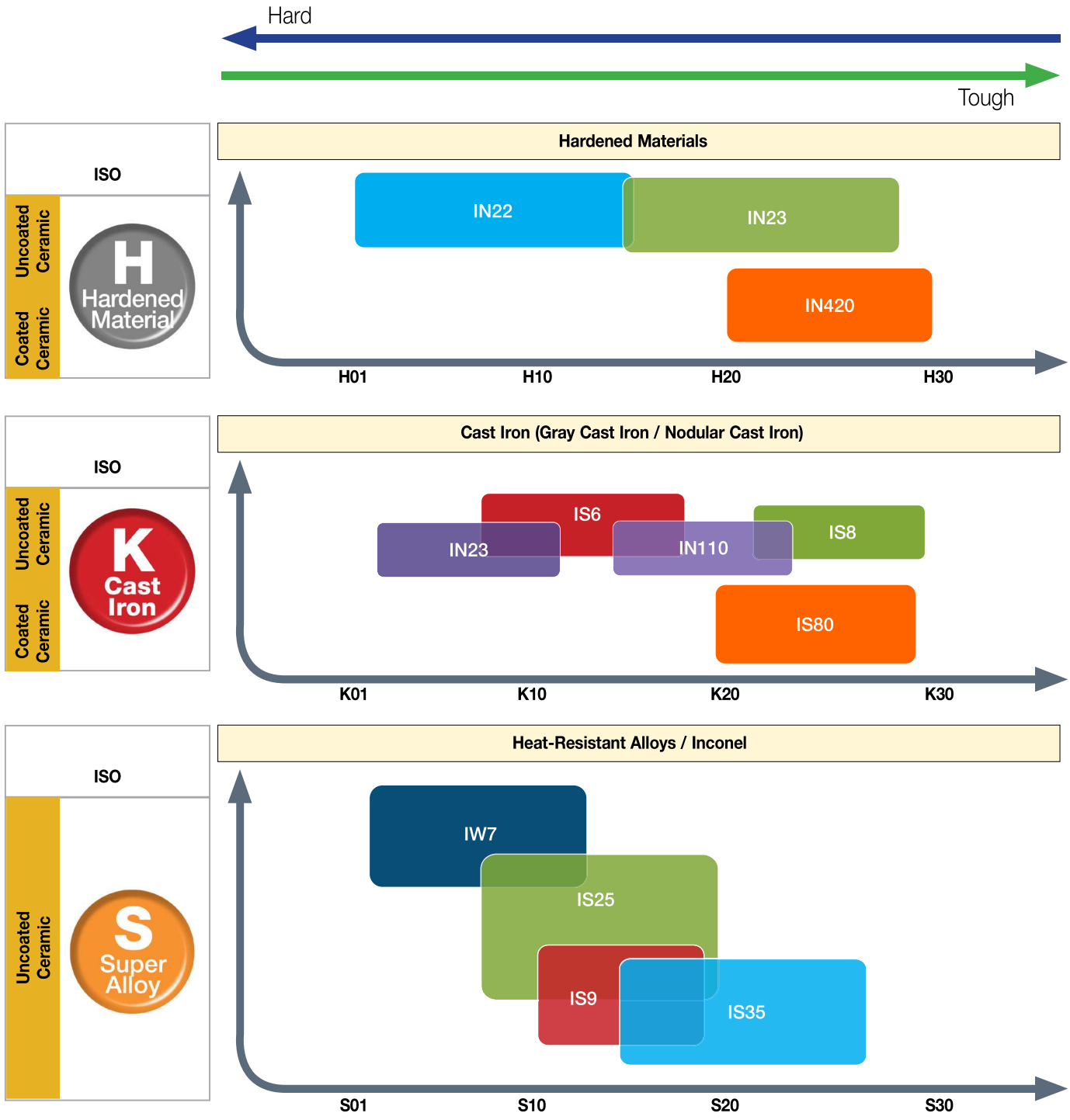


Chipbreaker with reinforced cutting edge and positive rake angles for medium machining stainless steel conditions.

PCBN Grades


Hard
Tough
ISO
Uncoated PCBN
Coated PCBN
H
Hardened Material
Hardened Materials
IB05H
IB10H
IB20H
IB90
IB50
IB55
IB25H
IB10HC
IB25HA
IB20HC
IB25HC
H01
H010
H20
H30
ISO
Uncoated PCBN
K
Cast Iron
Gray Cast Iron
IB90
IB05S
IB10S
IB90A
IB20KD
Solid CBN
K01
K010
K20
K30
ISO
Uncoated PCBN
K
Cast Iron
Ductile Cast Iron
IB10K
IB10S
K01
K010
K20
K30
ISO
Uncoated PCBN
S
Super Alloy
Heat Resistant Alloys / Nickel Base
IB05S
IB10S
S01
S010
S20
S30
ISO
Uncoated PCBN
Cintered Materials
Cintered Materials
IB10S
IB05S
N01
N010
N20
N30

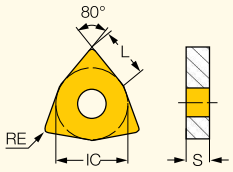
Ceramic Grades



ISOTURN
MINIPTURN POSITIVE DOUBLE SIDED

WNGP-F2P

Double-Sided Trigon Inserts for Super Finish Machining Conditions on Alloyed Steel



Designation	Dimensions L	IC	S	RE	IC530N	Recommended Machining Data a_p (mm)	f (mm/rev)
WNGP 040302R/L-F2P	4.35	6.35	3.18	0.20	●	0.30-2.00	0.08-0.30
WNGP 040304R/L-F2P	4.35	6.35	3.18	0.40	●	0.30-2.00	0.08-0.30
WNGP 040308R/L-F2P	4.35	6.35	3.18	0.80	●	0.30-2.00	0.08-0.30

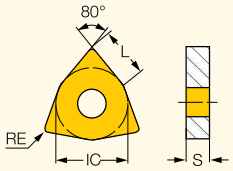
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

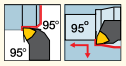
Tools: A/E-SWLNR/L-04 • NQCH-SWLNR/L-S-JHP • PWLNR/L-S

ISOTURN

WNMG-F3P

Double-Sided Trigon Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-F3P	6.52	9.52	4.76	0.40	●	●	●	●	●	●	0.50-2.50	0.07-0.25
WNMG 060408-F3P	6.52	9.52	4.76	0.80	●	●	●	●	●	●	0.90-3.00	0.08-0.25
WNMG 060412-F3P	6.52	9.52	4.76	1.20	●	●	●			●	1.30-3.00	0.10-0.25
WNMG 080404-F3P	8.70	12.70	4.76	0.40	●	●	●			●	0.50-3.50	0.07-0.25
WNMG 080408-F3P	8.70	12.70	4.76	0.80	●	●	●			●	0.90-3.50	0.08-0.25
WNMG 080412-F3P	8.70	12.70	4.76	1.20	●	●	●			●	1.30-3.50	0.10-0.25

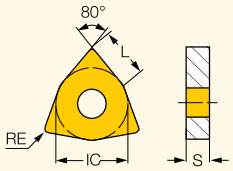
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

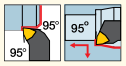
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMG-M3P

Double-Sided Trigon Inserts for Medium Machining Conditions on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T304-M3P	6.52	9.52	3.97	0.40	●	●	●			0.45-2.50	0.10-0.45
WNMG 06T308-M3P	6.52	9.52	3.97	0.80	●	●	●			0.50-3.00	0.15-0.50
WNMG 06T312-M3P	6.52	9.52	3.97	1.20	●	●				0.80-3.00	0.18-0.60
WNMG 060404-M3P	6.52	9.52	4.76	0.40	●	●	●		●	0.45-2.50	0.10-0.45
WNMG 060408-M3P	6.52	9.52	4.76	0.80	●	●	●		●	0.50-3.00	0.15-0.50
WNMG 060412-M3P	6.52	9.52	4.76	1.20	●		●		●	0.80-3.00	0.18-0.60
WNMG 080404-M3P	8.70	12.70	4.76	0.40	●	●	●		●	0.40-3.50	0.10-0.45
WNMG 080408-M3P	8.70	12.70	4.76	0.80	●	●	●	●	●	0.50-4.00	0.15-0.50
WNMG 080412-M3P	8.70	12.70	4.76	1.20	●	●	●	●	●	0.80-4.00	0.18-0.60
WNMG 080416-M3P	8.70	12.70	4.76	1.60	●	●			●	1.00-4.00	0.23-0.65

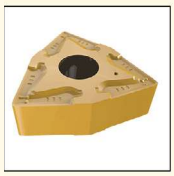
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

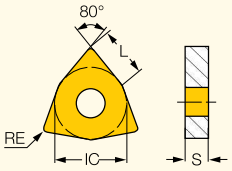
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

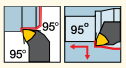
ISOTURN

WNMG-CERMET

Double-Sided Trigon Cermet Grade Inserts for Semi-Finishing and Finishing Applications





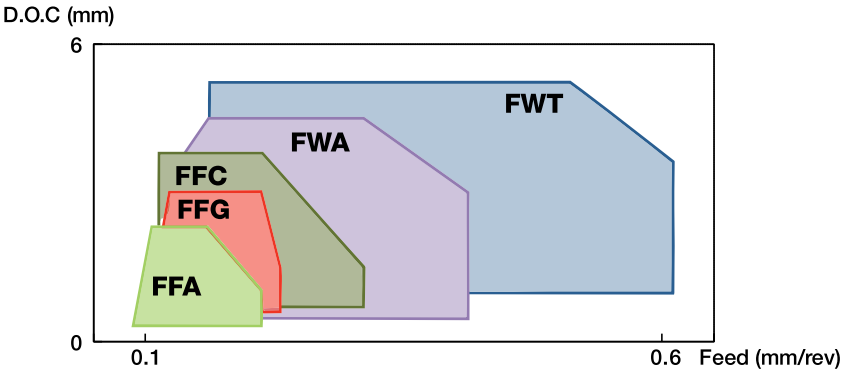


Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T302-FFC	6.52	9.52	3.97	0.20	●	●	1.00-2.50	0.05-0.25
WNMG 06T304-FFC	6.52	9.52	3.97	0.40	●	●	1.00-2.50	0.05-0.25
WNMG 06T304-FFG	6.52	9.52	3.97	0.40		●	1.00-2.50	0.05-0.25
WNMG 06T304-FWA (1)	6.52	9.52	3.97	0.40		●	0.50-3.00	0.12-0.50
WNMG 06T308-FFC	6.52	9.52	3.97	0.80	●		1.00-2.50	0.05-0.25
WNMX 060404-FWA (1)	6.52	9.52	4.76	0.40		●	0.50-3.00	0.12-0.50
WNMG 06T302-FFA	6.52	9.92	3.97	0.20		●	0.30-1.50	0.05-0.16
WNMG 080404-FFC	8.70	12.70	4.76	0.40	●	●	1.00-2.50	0.05-0.25
WNMG 080408-FFC	8.70	12.70	4.76	0.80		●	1.00-2.50	0.05-0.25
WNMG 080408-FWT	8.70	12.70	4.76	0.80		●	1.40-5.00	0.15-0.60

- For user guide and cutting speed recommendations, see pages 122-134, 236-254

(1) Insert with wiper geometry

Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

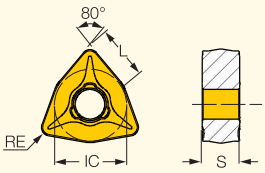


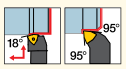
DOVEIQTURN HEAVY DUTY LINE

FEEDTURN

WOMG-10-T3P-IQ

Double-Sided 6° Negative Side Flank Trigon Inserts for High Feed Turning of Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8350	IC8250	IC8150	Recommended Machining Data a_p (mm)(2)	f (mm/rev)(1)
WOMG 100716-T3P-IQ	10.86	15.88	7.94	1.60	●	●	●	1.00-2.80	1.50-3.00

- The specified machining recommendations in the above table are valid only for PWXOR/L-TF-IQ tools. For PWLOR/L-IQ **tools:** a_p= 3-7 mm, ft= 0.3-0.8 mm/rev.
- For user guide, see pages 122-134, 236-254

(1) Fast feed cutting condition. For 95° app. See more info.

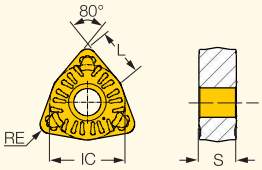
(2) Fast feed cutting condition. For 95° app. See more info.

Tools: PWLOR/L-IQ • PWXOR/L-TF-IQ

DOVEIQTURN HEAVY DUTY LINE

WOMG-13-R3P-IQ

Double-Sided 7° Negative Side Flank Trigon Inserts for Heavy Turning of Steel



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
WOMG 130612-R3P-IQ	13.03	19.05	6.35	1.20	●	●	3.50-8.00	0.30-0.80
WOMG 130616-R3P-IQ	13.03	19.05	6.35	1.60	●	●	4.00-8.00	0.40-0.85
WOMG 130624-R3P-IQ	13.03	19.05	6.35	2.40	●	●	4.00-8.00	0.40-1.00

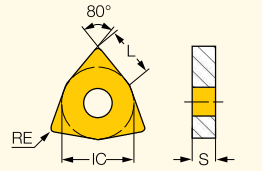
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: C#-PWLOR/L-IQ • PWLOR/L-IQ

ISOTURN MINIPTURN POSITIVE DOUBLE SIDED

WNGP-F2M

Double-Sided Trigon Inserts for Super Finish Machining Conditions on Stainless Steel



Designation	Dimensions L	IC	S	RE	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
WNGP 040302R/L-F2M	4.35	6.35	3.18	0.20	●	0.30-2.00	0.08-0.30
WNGP 040304R/L-F2M	4.35	6.35	3.18	0.40	●	0.30-2.00	0.08-0.30
WNGP 040308R/L-F2M	4.35	6.35	3.18	0.80	●	0.30-2.00	0.08-0.30

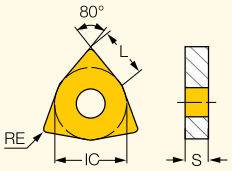
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

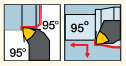
Tools: A/E-SWLNR/L-04 • NQCH-SWLNR/L-S-JHP • PWLNR/L-S

ISOTURN

WNMG-F3M

Double-Sided Trigon Inserts for Stainless Steel Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-F3M	6.52	9.52	4.76	0.40	●	●	●	●	●	0.10-1.50	0.05-0.30
WNMG 060408-F3M	6.52	9.52	4.76	0.80	●	●	●	●	●	0.10-1.50	0.10-0.40
WNMG 060412-F3M	6.52	9.52	4.76	1.20		●	●	●	●	0.20-2.50	0.15-0.50
WNMG 080404-F3M	8.70	12.70	4.76	0.40	●	●	●	●	●	0.10-1.50	0.05-0.30
WNMG 080408-F3M	8.70	12.70	4.76	0.80	●	●	●	●	●	0.10-1.50	0.10-0.40
WNMG 080412-F3M	8.70	12.70	4.76	1.20	●	●	●	●	●	0.20-2.50	0.15-0.50

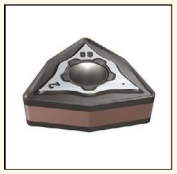
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

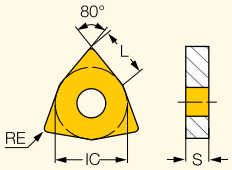
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

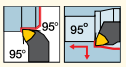
ISOTURN

WNMG-M3M

Double-Sided Trigon Inserts for Machining Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-M3M	6.52	9.52	4.76	0.40	●	●	●	●	●		0.50-3.50	0.12-0.40
WNMG 060408-M3M	6.52	9.52	4.76	0.80	●	●	●	●	●		0.50-3.50	0.15-0.50
WNMG 060412-M3M	6.52	9.52	4.76	1.20	●	●	●	●	●		0.50-3.50	0.20-0.60
WNMG 080404-M3M	8.70	12.70	4.76	0.40	●				●		0.50-5.00	0.12-0.40
WNMG 080408-M3M	8.70	12.70	4.76	0.80	●	●	●	●	●	●	0.50-5.00	0.15-0.50
WNMG 080412-M3M	8.70	12.70	4.76	1.20	●	●	●	●	●		0.50-5.00	0.20-0.60
WNMG 080416-M3M	8.70	12.70	4.76	1.60					●		0.50-5.00	0.25-0.70

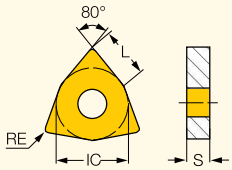
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

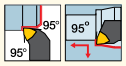
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMG-F3S

Double-Sided 80° Trigon Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060404-F3S	6.52	9.52	4.76	0.40	●	●	0.10-1.50	0.05-0.30
WNMG 060408-F3S	6.52	9.52	4.76	0.80	●	●	0.10-1.50	0.10-0.35
WNMG 080404-F3S	8.70	12.70	4.76	0.40	●	●	0.10-1.50	0.05-0.30
WNMG 080408-F3S	8.70	12.70	4.76	0.80	●	●	0.10-1.50	0.10-0.35

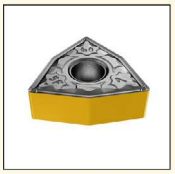
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

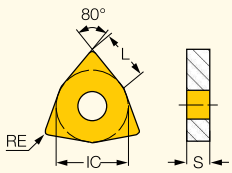
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • DWLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW

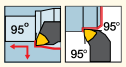
ISOTURN

WNMG-SF

Double-Sided Trigon Inserts for Super Finishing







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC530N	IC520N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T302-SF	6.52	9.52	3.97	0.20	●				0.30-1.50	0.02-0.15
WNMG 06T304-SF	6.52	9.52	3.97	0.40	●	●	●	●	0.30-1.50	0.05-0.15

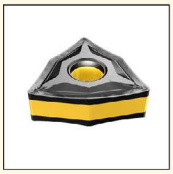
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

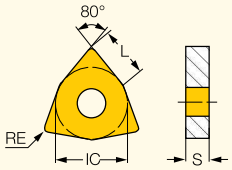
Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • DWLNR/L • E-PWLNR/L-HEAD • MWLNR/L-W • PWLNR/L

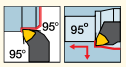
ISOTURN

WNMG-NF

Double-Sided Trigon Inserts for Semi-Finishing and Finishing Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8350	IC8250	IC908	IC30N	IC530N	IC10	IC8150	IC20	IC20N	IC520N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T301-NF	6.52	9.52	3.97	0.10			●										0.20-1.00	0.05-0.15
WNMG 06T302-NF	6.52	9.52	3.97	0.20	●	●		●	●	●	●		●		●	●	0.30-1.50	0.08-0.17
WNMG 06T304-NF	6.52	9.52	3.97	0.40	●	●		●	●	●	●	●	●	●	●	●	0.40-2.50	0.07-0.25
WNMG 06T308-NF	6.52	9.52	3.97	0.80	●	●				●	●	●	●				0.60-3.00	0.08-0.25
WNMG 060402-NF	6.52	9.52	4.76	0.20											●	●	0.30-3.00	0.05-0.20
WNMG 060404-NF	6.52	9.52	4.76	0.40		●									●	●	0.60-3.00	0.08-0.25
WNMG 060408-NF	6.52	9.52	4.76	0.80							●						0.80-3.00	0.08-0.25
WNMG 080404-NF	8.70	12.70	4.76	0.40		●			●				●				0.40-3.50	0.07-0.25
WNMG 080408-NF	8.70	12.70	4.76	0.80		●			●		●						0.80-3.50	0.08-0.25
WNMG 080412-NF	8.70	12.70	4.76	1.20							●						1.20-3.50	0.08-0.25

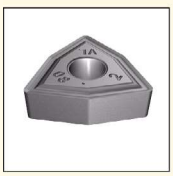
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

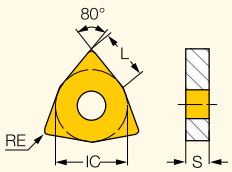
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

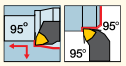
ISOTURN

WNMG-VL

Double-Sided Trigon Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC806	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T308-VL	6.52	9.52	3.97	0.80	●			0.50-3.00	0.07-0.25
WNMG 080404-VL	8.70	12.70	4.76	0.40		●	●	0.30-3.00	0.05-0.15
WNMG 080408-VL	8.70	12.70	4.76	0.80	●	●		0.50-4.00	0.10-0.25
WNMG 080412-VL	8.70	12.70	4.76	1.20	●			1.00-4.50	0.12-0.25

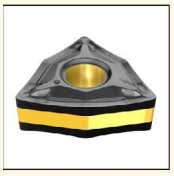
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

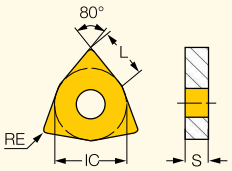
Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

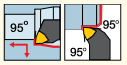
ISOTURN

WNMG-WG

Double-Sided Trigon Wiper Inserts for High Surface Finish at High Feed Turning







Designation	Dimensions IC	L	S	RE	Tough ↔ Hard IC8250	IC530N	IC8150	IC20N	IC520N	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T304-WG	9.52	6.52	3.97	0.40	●	●	●	●	●					0.40-3.00	0.10-0.35
WNMG 06T308-WG	9.52	6.52	3.97	0.80	●		●		●			●	●	0.60-3.50	0.10-0.50
WNMG 060404-WG	9.52	6.52	4.76	0.40	●	●	●					●		0.40-3.00	0.10-0.35
WNMG 060408-WG	9.52	6.52	4.76	0.80	●		●					●		0.60-3.50	0.10-0.50
WNMG 080408-WG	12.70	8.70	4.76	0.80	●	●	●		●	●	●	●	●	1.00-3.50	0.10-0.50
WNMG 080412-WG	12.70	8.70	4.76	1.20	●		●			●	●			1.20-4.00	0.30-0.80

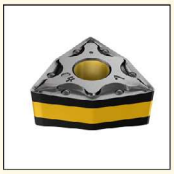
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

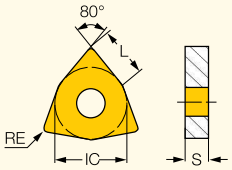
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

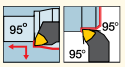
ISOTURN

WNMG-WF

Double-Sided Trigon
Wiper Inserts for Finishing
Operations at High Feeds







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC530N	IC8150	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 060402-WF	6.52	9.52	4.76	0.20				●	0.20-3.00	0.05-0.25
WNMG 060404-WF	6.52	9.52	4.76	0.40			●	●	0.50-3.00	0.05-0.30
WNMG 060408-WF	6.52	9.52	4.76	0.80				●	0.80-3.50	0.07-0.30
WNMG 080408-WF	8.70	12.70	4.76	0.80	●	●			0.80-3.50	0.07-0.35
WNMG 080412-WF	8.70	12.70	4.76	1.20		●			0.80-3.50	0.07-0.35

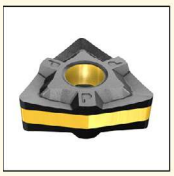
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

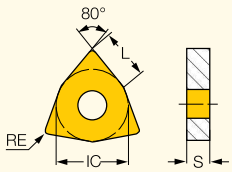
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

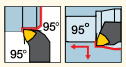
ISOTURN

WNMG-PP

Double-Sided Trigon Inserts for
Machining Very Ductile Materials
at Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC28	IC830	IC8350	IC6025	IC8250	IC30N	IC530N	IC10	IC6015	IC8150	IC520M	IC20	IC20N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T304-PP	6.52	9.52	3.97	0.40			●		●		●	●		●					●	●	1.00-3.00	0.14-0.30
WNMG 06T308-PP	6.52	9.52	3.97	0.80		●	●		●					●					●	●	1.00-3.00	0.14-0.30
WNMG 060404-PP	6.52	9.52	4.76	0.40			●		●										●	●	1.00-3.00	0.14-0.30
WNMG 060408-PP	6.52	9.52	4.76	0.80			●												●	●	1.00-3.00	0.14-0.30
WNMG 080404-PP	8.70	12.70	4.76	0.40		●	●	●	●			●	●	●					●	●	1.00-3.50	0.14-0.30
WNMG 080408-PP	8.70	12.70	4.76	0.80	●	●	●	●	●			●	●	●	●		●	●	●	●	1.00-4.00	0.14-0.30
WNMG 080412-PP	8.70	12.70	4.76	1.20					●	●						●					1.50-5.00	0.18-0.40

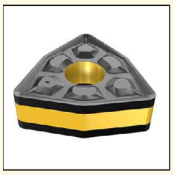
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

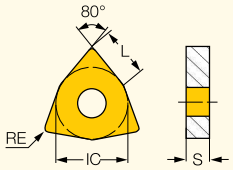
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

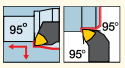
ISOTURN

WNMG-TF

Double-Sided Trigon Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC908	IC6015	IC8150	IC520M	IC20	IC20N	IC5010	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T304-TF	6.52	9.52	3.97	0.40	●			●					●				●	●	1.00-3.00	0.12-0.35
WNMG 06T308-TF	6.52	9.52	3.97	0.80	●			●			●		●	●		●	●	●	1.00-3.00	0.12-0.35
WNMG 06T312-TF	6.52	9.52	3.97	1.20													●	●	1.00-4.00	0.15-0.40
WNMG 060404-TF	6.52	9.52	4.76	0.40				●									●	●	1.00-3.00	0.12-0.35
WNMG 060408-TF	6.52	9.52	4.76	0.80	●			●			●						●	●	1.00-3.00	0.12-0.35
WNMG 060412-TF	6.52	9.52	4.76	1.20													●	●	1.00-4.00	0.15-0.35
WNMG 080404-TF	8.70	12.70	4.76	0.40	●		●	●		●	●		●			●	●	●	1.00-4.00	0.12-0.35
WNMG 080408-TF	8.70	12.70	4.76	0.80	●	●	●	●	●	●	●	●	●		●	●	●	●	1.00-4.00	0.12-0.35
WNMG 080412-TF	8.70	12.70	4.76	1.20	●		●	●	●	●	●		●				●	●	1.50-4.50	0.15-0.40

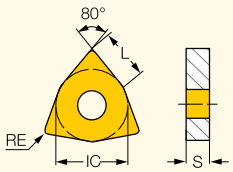
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

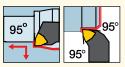
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMG-GN

Double-Sided Trigon Inserts for General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC928	IC8350	IC6025	IC8250	IC6015	IC8150	IC20	IC5010	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 06T304-GN	6.52	9.52	3.97	0.40	●				●		●	●					1.00-3.50	0.14-0.40
WNMG 06T308-GN	6.52	9.52	3.97	0.80	●		●		●		●						1.00-3.50	0.16-0.45
WNMG 06T312-GN	6.52	9.52	3.97	1.20					●								1.50-4.00	0.18-0.45
WNMG 060404-GN	6.52	9.52	4.76	0.40					●								1.00-3.50	0.14-0.40
WNMG 060408-GN	6.52	9.52	4.76	0.80					●								1.00-3.50	0.16-0.45
WNMG 060412-GN	6.52	9.52	4.76	1.20							●						1.50-4.00	0.18-0.45
WNMG 080404-GN	8.70	12.70	4.76	0.40	●				●		●		●	●			1.00-4.50	0.14-0.40
WNMG 080408-GN	8.70	12.70	4.76	0.80	●	●	●	●	●	●	●	●	●	●	●	●	1.00-4.50	0.16-0.45
WNMG 080412-GN	8.70	12.70	4.76	1.20	●		●		●		●		●	●			1.50-4.50	0.22-0.50
WNMG 080416-GN	8.70	12.70	4.76	1.60					●								2.00-6.00	0.25-0.60
WNMG 130612-GN	13.03	19.05	6.35	1.20			●		●								2.50-5.50	0.30-0.50
WNMG 130616-GN	13.03	19.05	6.35	1.60					●								2.50-6.00	0.30-0.50

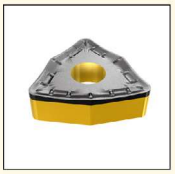
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

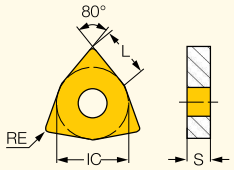
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

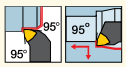
ISOTURN

WNMM-NM

Single-Sided Trigon Inserts
for Roughing Applications







Designation	Dimensions L	IC	S	RE	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMM 080408-NM	8.70	12.70	4.76	0.80	●	1.50-5.00	0.20-0.50

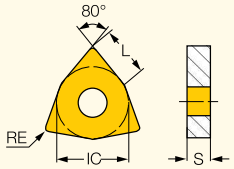
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

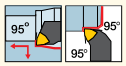
Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMG-NR

Double-Sided Trigon Inserts
with a Special Chipformer
for Heavy Machining





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC5010	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 080408-NR	8.70	12.70	4.76	0.80	●		●	●	●	1.00-5.00	0.18-0.50
WNMG 080412-NR	8.70	12.70	4.76	1.20	●	●	●	●	●	2.00-5.00	0.23-0.55
WNMG 080416-NR	8.70	12.70	4.76	1.60	●	●				2.00-5.00	0.30-0.60

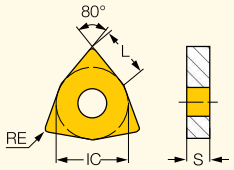
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

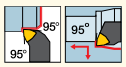
Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMG-TNM

Double-Sided Trigon Inserts
for Semi-Roughing and
Roughing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMG 080408-TNM	8.70	12.70	4.76	0.80			●			2.00-4.50	0.25-0.45
WNMG 080412-TNM	8.70	12.70	4.76	1.20			●			2.00-4.50	0.25-0.45
WNMG 130612-TNM	13.03	19.05	6.35	1.20		●	●	●	●	2.50-7.00	0.25-0.65
WNMG 130616-TNM	13.03	19.05	6.35	1.60		●	●			2.50-7.00	0.25-0.65
WNMG 130624-TNM	13.03	19.05	6.35	2.40	●		●			3.00-7.00	0.30-0.65

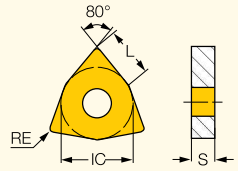
• This inserts should be used with SEAT IWSN 635M3 only! • For user guide and cutting speed recommendations, see pages 122-134, 236-254

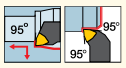
Tools: A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • DWLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-13W • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

ISOTURN

WNMA/WNMA-WG

Double-Sided Trigon Inserts
for Short Chipping Materials
such as Cast Iron





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8150	IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMA 06T304	6.52	9.52	3.97	0.40		●	●	●	0.50-2.00	0.03-0.30
WNMA 06T308	6.52	9.52	3.97	0.80		●	●	●	1.00-3.00	0.03-0.40
WNMA 06T312	6.52	9.52	3.97	1.20			●		1.50-3.50	0.03-0.45
WNMA 060404	6.52	9.52	4.76	0.40		●		●	1.00-3.00	0.03-0.50
WNMA 060408	6.52	9.52	4.76	0.80		●	●	●	1.00-3.00	0.03-0.50
WNMA 060412	6.52	9.52	4.76	1.20		●		●	1.00-3.00	0.03-0.50
WNMA 080408	8.70	12.70	4.76	0.80	●	●	●	●	1.00-4.00	0.03-0.48
WNMA 080408-WG	8.70	12.70	4.76	0.80			●		1.00-3.50	0.10-0.60
WNMA 080412	8.70	12.70	4.76	1.20		●	●	●	1.50-4.00	0.03-0.55
WNMA 080416	8.70	12.70	4.76	1.60		●		●	2.00-5.00	0.03-0.55
WNMA 130616	13.03	19.05	6.35	1.60			●	●	3.00-8.00	0.03-0.80

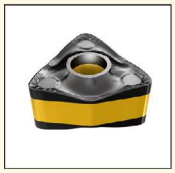
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

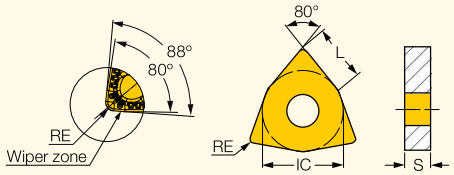
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • A/S-PWLNR/L • C#-MULNR/L-MW • C#-PWLNR/L-08-JHP • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • E-PWLNR/L-HEAD • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • MWLNR/L-13W • MWLNR/L-W • PWLNR/L • PWLNR/L-08-JHP • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC • S-DWLNR/L • S-MULNR-MW • DWLNR/L-JHP-MC

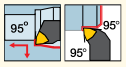
HELITURN LD

WNMX-M3/4PW

Double-Sided Trigon Inserts
with High Helical Cutting Edge
for High Metal Removal Rates







Designation	Dimensions IC	RE	S	L	Tough ↔ Hard IC830	IC8250	IC8150	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMX 060604-M3PW	9.52	0.40	4.41	6.50	●	●	●			1.00-4.00	0.20-0.50
WNMX 060608-M3PW	9.52	0.80	4.41	6.50	●	●	●	●	●	1.50-4.00	0.25-0.60
WNMX 080708-M4PW	12.70	0.80	6.78	8.70		●	●		●	1.50-5.00	0.25-0.60
WNMX 080712-M4PW	12.70	1.20	6.78	8.70		●	●			2.00-5.00	0.30-0.80
WNMX 080716-M4PW	12.70	1.60	6.78	8.70		●	●			2.00-5.00	0.30-1.00

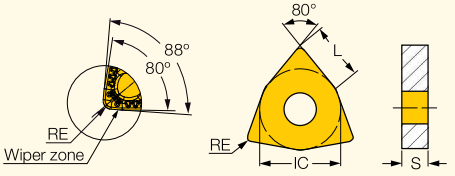
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

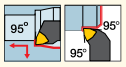
Tools: A-PWLNR/L-X/G • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • DWLNR/L-JHP-MC • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC

HELITURN LD

WNMX-M3/4MW

Double-Sided Trigon Inserts
for Machining Stainless Steel,
High Temperature Alloys and
Soft, Low Carbon Steel





Designation	Dimensions IC	RE	S	L	Tough ↔ Hard IC830	IC6025	IC8250	IC6015	IC8150	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
WNMX 060604-M3MW	9.52	0.40	4.41	6.50	●	●		●				0.80-4.00	0.15-0.50
WNMX 060608-M3MW	9.52	0.80	4.41	6.50	●	●		●				1.00-5.00	0.20-0.60
WNMX 080704-M4MW	12.70	0.40	6.78	8.70		●	●	●	●	●	●	0.80-5.00	0.15-0.50
WNMX 080708-M4MW	12.70	0.80	6.78	8.70		●	●	●	●	●	●	1.00-5.00	0.20-0.60
WNMX 080712-M4MW	12.70	1.20	6.78	8.70		●		●		●	●	1.20-5.00	0.25-0.70

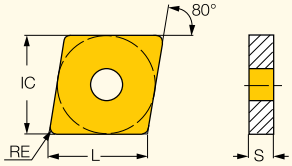
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

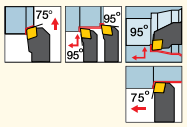
Tools: A-PWLNR/L-X/G • C#-PWLNR/L-X • C#-PWLNR/L-X-JHP • DWLNR/L • DWLNR/L-JHP-MC • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC

ISOTURN

CNMG-F3P

Double-Sided 80° Rhombic Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-F3P	9.67	9.52	4.76	0.40	●		●	●	●	●	●	0.50-3.50	0.07-0.25
CNMG 090408-F3P	9.67	9.52	4.76	0.80	●		●	●	●	●	●	0.90-3.50	0.08-0.25
CNMG 120404-F3P	12.90	12.70	4.76	0.40	●	●	●	●			●	0.50-3.50	0.07-0.25
CNMG 120408-F3P	12.90	12.70	4.76	0.80	●		●	●		●	●	0.90-3.50	0.08-0.25
CNMG 120412-F3P	12.90	12.70	4.76	1.20	●		●	●			●	1.30-3.50	0.10-0.25

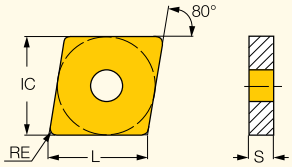
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

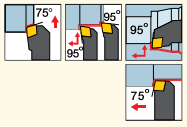
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • AVC-PCLNR/L • DCLNR/L-JHP-MC

ISOTURN

CNMG-M3P

Double-Sided 80° Rhombic Inserts for Medium Machining Conditions on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-M3P	9.67	9.52	4.76	0.40	●	●	●			●	0.40-4.00	0.10-0.30
CNMG 090408-M3P	9.67	9.52	4.76	0.80	●	●	●			●	0.50-4.50	0.15-0.50
CNMG 120404-M3P	12.90	12.70	4.76	0.40	●	●	●			●	0.40-5.50	0.10-0.30
CNMG 120408-M3P	12.90	12.70	4.76	0.80	●	●	●	●	●	●	0.50-5.50	0.15-0.50
CNMG 120412-M3P	12.90	12.70	4.76	1.20	●	●	●			●	0.80-5.50	0.18-0.60
CNMG 160612-M3P	16.12	15.88	6.35	1.20	●	●	●			●	0.80-7.20	0.18-0.60
CNMG 160616-M3P	16.12	15.88	6.35	1.60	●	●	●			●	0.80-7.20	0.18-0.60
CNMG 190608-M3P	19.30	19.05	6.35	0.80	●	●				●	0.50-8.60	0.15-0.50
CNMG 190612-M3P	19.30	19.05	6.35	1.20	●	●				●	0.80-8.60	0.18-0.60

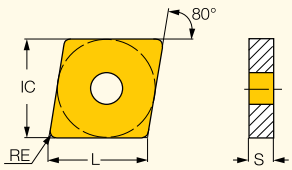
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

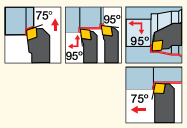
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • AVC-PCLNR/L • DCLNR/L-JHP-MC

ISOTURN

CNMG-R3P

Double-Sided 80° Rhombic Inserts with a Chipformer for Rough Machining





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120408-R3P	12.90	12.70	4.76	0.80	●						1.00-5.00	0.18-0.50
CNMG 120412-R3P	12.90	12.70	4.76	1.20						●	1.00-5.00	0.23-0.55
CNMG 120416-R3P	12.90	12.70	4.76	1.60		●					1.00-5.00	0.30-0.60
CNMG 160608-R3P	16.12	15.88	6.35	0.80	●			●	●		1.50-6.00	0.25-0.50
CNMG 160612-R3P	16.12	15.88	6.35	1.20	●			●	●		2.00-7.00	0.30-0.60
CNMG 160616-R3P	16.12	15.88	6.35	1.60		●	●	●	●		2.50-7.00	0.30-0.70
CNMG 160624-R3P	16.12	15.88	6.35	2.40		●	●				2.50-7.00	0.30-0.70
CNMG 150616-R3P	16.12	15.88	6.35	1.60						●	2.50-7.00	0.30-0.70
CNMG 190612-R3P	19.30	19.05	6.35	1.20			●				3.50-8.00	0.30-0.80
CNMG 190616-R3P	19.30	19.05	6.35	1.60		●	●	●	●		4.00-10.00	0.40-0.85
CNMG 190624-R3P	19.30	19.05	6.35	2.40					●		4.00-10.00	0.40-0.85

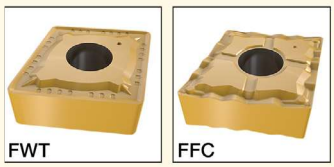
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

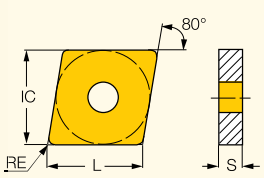
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • DCLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • IHSR • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW

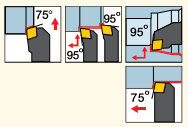
ISOTURN

CNMG-CERMET

Double-Sided 80° Rhombic Cermet Grade Inserts for Semi-Finishing and Finishing Applications



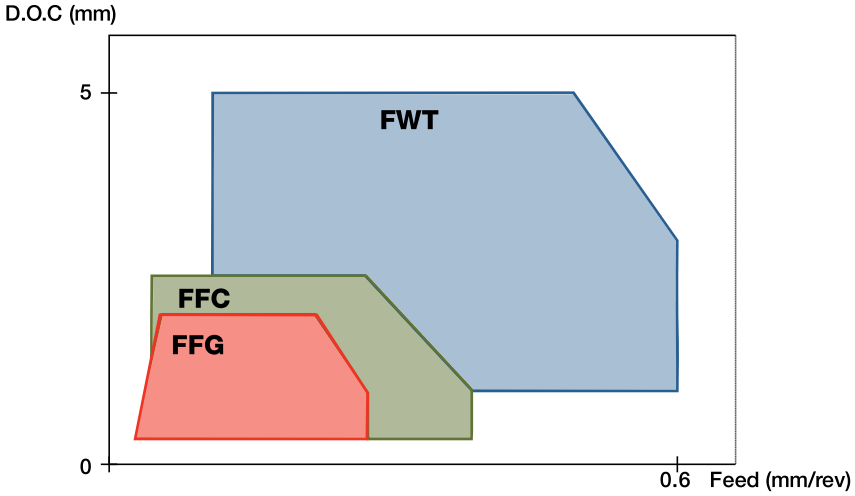




Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120402-FFG	12.90	12.70	4.76	0.20		●	0.40-3.50	0.07-0.25
CNMG 120404-FFC	12.90	12.70	4.76	0.40	●	●	0.50-3.50	0.07-0.25
CNMG 120408-FFC	12.90	12.70	4.76	0.80	●		1.00-2.50	0.05-0.25
CNMG 120408-FWT	12.90	12.70	4.76	0.80		●	0.00-5.00	0.15-0.00

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

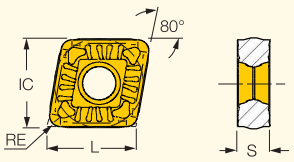
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • DCLNR/L-JHP-MC

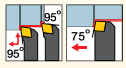


DOVE IQ TURN HEAVY DUTY LINE

COMG-R3P-IQ

Double-Sided 7° Negative Side Flank 80° Rhombic Inserts for Heavy Turning of Steel

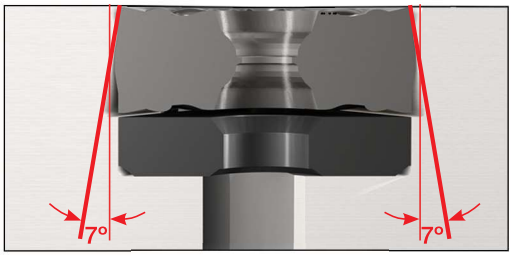




Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
COMG 160608-R3P-IQ	16.12	15.88	6.35	0.80	●	●	2.00-9.00	0.25-0.50
COMG 160612-R3P-IQ	16.12	15.88	6.35	1.20	●	●	2.00-9.00	0.30-0.60
COMG 160616-R3P-IQ	16.12	15.88	6.35	1.60	●	●	2.00-9.00	0.30-0.70
COMG 190612-R3P-IQ	19.34	19.05	6.35	1.20	●	●	3.00-12.00	0.30-0.80
COMG 190616-R3P-IQ	19.34	19.05	6.35	1.60	●	●	3.50-12.00	0.35-0.90
COMG 190624-R3P-IQ	19.34	19.05	6.35	2.40	●	●	3.50-12.00	0.35-0.90
COMG 250924-R3P-IQ	25.79	25.40	9.52	2.40	●	●	4.00-15.00	0.40-1.00

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: C#-PCLOR/L-IQ • PCBOR/L-IQ • PCLOR/L-IQ

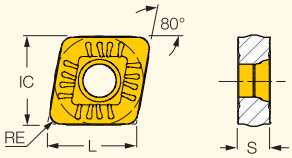


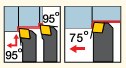
DOVE TAIL GEOMETRY

DOVEIQTURN HEAVY DUTY LINE

COMM-R3P-IQ

Single-Sided 7° Negative Side Flank 80° Rhombic Inserts for Heavy Turning of Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
COMM 190624-R3P-IQ	19.34	19.05	6.35	2.40	●	●	3.50-12.00	0.35-1.20

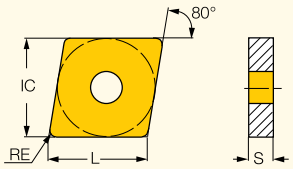
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

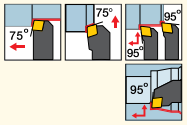
Tools: C#-PCLOR/L-IQ • PCBOR/L-IQ • PCLOR/L-IQ

ISOTURN

CNMG-F3M

Double-sided 80° Rhombic Inserts for Stainless Steel Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC4	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-F3M	9.67	9.52	4.76	0.40	●	●	●	●	●			0.10-1.50	0.05-0.30
CNMG 090408-F3M	9.67	9.52	4.76	0.80	●	●	●	●	●			0.10-1.50	0.10-0.40
CNMG 120404-F3M	12.90	12.70	4.76	0.40	●	●	●	●	●			0.10-1.50	0.05-0.30
CNMG 120408-F3M	12.90	12.70	4.76	0.80	●	●	●	●	●		●	0.10-1.50	0.10-0.40
CNMG 120412-F3M	12.90	12.70	4.76	1.20	●	●	●	●	●	●	●	0.20-2.00	0.15-0.50

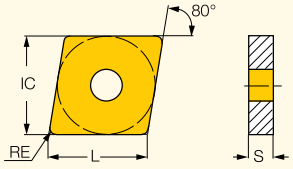
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

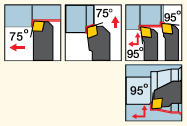
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • AVC-PCLNR/L • DCLNR/L-JHP-MC

ISOTURN

CNMG-M3M

Double-Sided 80° Rhombic Inserts for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-M3M	9.67	9.52	4.76	0.40	●	●	●	●	●		0.40-4.00	0.12-0.40
CNMG 090408-M3M	9.67	9.52	4.76	0.80	●	●	●	●	●		0.50-4.50	0.15-0.50
CNMG 120404-M3M	12.90	12.70	4.76	0.40	●				●		0.50-5.00	0.15-0.50
CNMG 120408-M3M	12.90	12.70	4.76	0.80	●	●	●	●	●	●	0.50-5.00	0.15-0.50
CNMG 120412-M3M	12.90	12.70	4.76	1.20	●	●	●	●	●	●	0.50-5.00	0.20-0.60
CNMG 120416-M3M	12.90	12.70	4.76	1.60	●	●	●	●			0.50-5.00	0.25-0.70
CNMG 160608-M3M	16.12	15.88	6.35	0.80	●	●	●	●			0.50-7.00	0.15-0.50
CNMG 160612-M3M	16.12	15.88	6.35	1.20	●	●	●	●	●		0.50-7.00	0.20-0.60
CNMG 160616-M3M	16.12	15.88	6.35	1.60	●	●	●	●	●		0.50-7.00	0.25-0.70
CNMG 190608-M3M	19.34	19.05	6.35	0.80	●	●	●		●		3.00-10.00	0.30-0.70
CNMG 190612-M3M	19.34	19.05	6.35	1.20	●	●	●		●		3.00-10.00	0.35-0.80

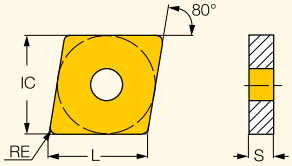
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

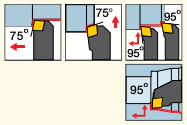
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • AVC-PCLNR/L • DCLNR/L-JHP-MC

ISOTURN

CNMG-R3M

Double-Sided 80° Rhombic Inserts for Rough Machining of Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC806	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 160612-R3M	16.12	15.88	6.35	1.20	●	●		2.00-9.00	0.30-0.90
CNMG 160616-R3M	16.12	15.88	6.35	1.60	●	●		2.00-10.00	0.40-1.00
CNMG 160624-R3M	16.12	15.88	6.35	2.40		●		2.00-11.00	0.50-1.20
CNMG 190612-R3M	19.34	19.05	6.35	1.20	●	●	●	2.00-9.00	0.30-0.90
CNMG 190616-R3M	19.34	19.05	6.35	1.60	●	●	●	2.00-10.00	0.40-1.00
CNMG 190624-R3M	19.34	19.05	6.35	2.40	●	●		2.00-11.00	0.50-1.20

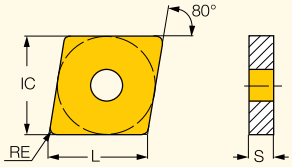
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

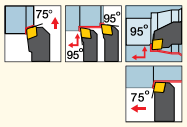
Tools: A/S-PCLNR/L • C#-PCLNR/L-X • DCBNR/L • DCLNR/L) • MCLNR/L • PCBNR/L • PCLNR/L • PCLNR/L-X • A/S-PCLNR/L-X/G

ISOTURN

CNMG-F3S

Double-Sided 80° Rhombic Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090404-F3S	9.67	9.52	4.76	0.40	●	●	0.10-1.50	0.05-0.30
CNMG 090408-F3S	9.67	9.52	4.76	0.80	●	●	0.10-1.50	0.05-0.30
CNMG 120404-F3S	12.90	12.70	4.76	0.40	●	●	0.10-1.50	0.05-0.30
CNMG 120408-F3S	12.90	12.70	4.76	0.80	●	●	0.10-1.50	0.05-0.30

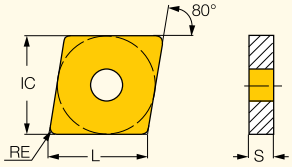
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

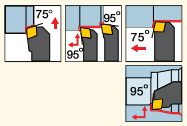
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • AVC-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • DCLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW

ISOTURN

CNMG-VL

Double-Sided 80° Rhombic Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120404-VL	12.90	12.70	4.76	0.40	●		0.30-3.00	0.05-0.15
CNMG 120408-VL	12.90	12.70	4.76	0.80	●	●	0.50-4.00	0.10-0.25

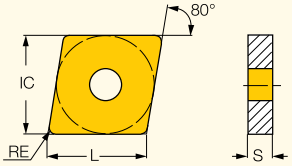
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

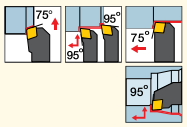
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMG/CNGG-SF

Double-Sided 80° Rhombic Inserts for Super-Finishing; Controls Chip Flow at Very Low Feeds and Depths of Cut





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC6015	IC520N	IC428	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120402-SF	12.90	12.70	4.76	0.20		●	●		0.30-2.00	0.03-0.25
CNMG 120404-SF	12.90	12.70	4.76	0.40	●				0.30-2.00	0.05-0.25
CNGG 120401-SF	12.90	12.70	4.76	0.10				●	0.20-1.50	0.03-0.15
CNGG 120402-SF	12.90	12.70	4.76	0.20				●	0.30-2.00	0.03-0.20
CNGG 120404-SF	12.90	12.70	4.76	0.40				●	0.30-2.00	0.03-0.20

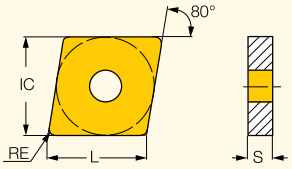
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

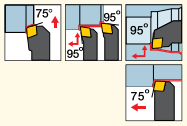
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMG-NF

Double-Sided 80° Rhombic Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC530N	IC6015	IC8150	IC20N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120404-NF	12.90	12.70	4.76	0.40	●	●	●	●	●	●	●	0.40-3.50	0.08-0.25
CNMG 120408-NF	12.90	12.70	4.76	0.80	●			●	●	●	●	0.80-3.50	0.08-0.25

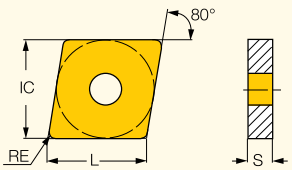
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

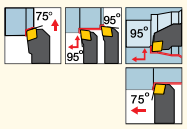
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMG-WF

Double-Sided 80° Rhombic Wiper Inserts for Finishing Operations at High Feeds





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120408-WF	12.90	12.70	4.76	0.80	●	●	0.80-3.50	0.10-0.35

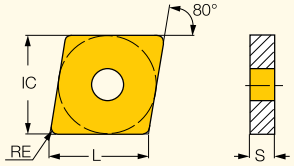
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

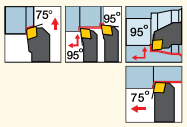
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMG-WG/NRW

Double-Sided 80° Rhombic Wiper Inserts for High Feed Turning and High Surface Finish





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC520N	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120408-WG	12.90	12.70	4.76	0.80	●	●	●	●	●	●	●	0.80-3.50	0.10-0.50
CNMG 120412-WG	12.90	12.70	4.76	1.20	●	●						1.50-4.00	0.30-0.80
CNMG 120416-NRW	12.90	12.70	4.76	1.60	●	●						2.00-4.50	0.30-0.80

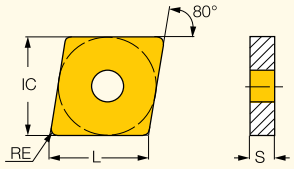
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

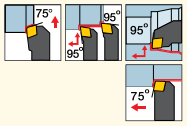
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMA

Double-Sided 80° Rhombic Inserts for Short Chipping Materials such as Cast Iron





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8150	IC20	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMA 120404	12.90	12.70	4.76	0.40			●	●	●			1.00-4.00	0.03-0.34
CNMA 120408	12.90	12.70	4.76	0.80	●	●	●	●	●			1.00-4.00	0.05-0.43
CNMA 120408F (1)	12.90	12.70	4.76	0.80						●	●	1.00-4.00	0.05-0.50
CNMA 120412	12.90	12.70	4.76	1.20	●	●	●	●	●			1.50-4.50	0.08-0.60
CNMA 120416	12.90	12.70	4.76	1.60			●	●	●			2.00-6.00	0.30-0.60
CNMA 160612	16.12	15.88	6.35	1.20			●		●			2.00-10.00	0.10-0.80
CNMA 160616	16.12	15.88	6.35	1.60			●		●			2.00-10.00	0.30-0.60
CNMA 190612	19.30	19.05	6.35	1.20		●		●	●			2.00-10.00	0.10-0.80
CNMA 190616	19.30	19.05	6.35	1.60					●			2.50-10.00	0.30-1.00

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

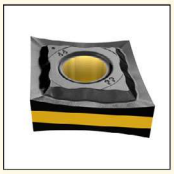
(1) Sharp edge

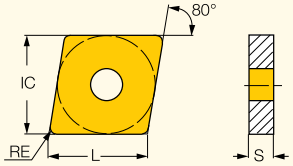
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • DCLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW

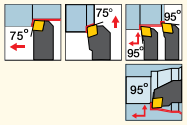
ISOTURN

CNMG/CNGG-PP

Double-Sided 80° Rhombic Inserts for Machining Very Ductile Materials at Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC28	IC830	IC8350	IC6025	IC8250	IC10	IC6015	IC8150	IC428	IC806	IC807	IC907	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120404-PP	12.90	12.70	4.76	0.40		●	●	●	●	●	●				●	●		1.00-4.00	0.14-0.30
CNMG 120408-PP	12.90	12.70	4.76	0.80	●	●	●	●	●	●	●	●	●	●	●	●		1.00-4.00	0.14-0.30
CNMG 120412-PP	12.90	12.70	4.76	1.20					●						●	●		1.50-4.00	0.18-0.40
CNMG 190612-PP	19.30	19.05	6.35	1.20											●	●		2.00-8.00	0.30-0.60
CNGG 120401-PP	12.90	12.70	4.76	0.10												●		0.40-2.00	0.05-0.20
CNGG 120402-PP	12.90	12.70	4.76	0.20												●		0.40-2.50	0.08-0.25
CNGG 120404-PP	12.90	12.70	4.76	0.40												●		0.80-3.00	0.10-0.30
CNGG 120408-PP	12.90	12.70	4.76	0.80										●		●	●	1.00-4.00	0.10-0.30
CNGG 120412-PP	12.90	12.70	4.76	1.20										●				1.00-4.00	0.10-0.30
CNGG 190612-PP	19.30	19.05	6.35	1.20												●		2.00-9.00	0.30-0.60

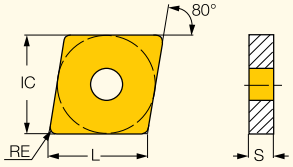
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

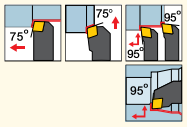
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • DCLNR/L-JHP-MC

ISOTURN

CNMG/CNGG-TF

Double-Sided 80° Rhombic Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC908	IC6015	IC8150	IC20	IC20N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 090304-TF	9.70	9.52	3.18	0.40				●			●						1.00-3.00	0.12-0.35
CNMG 090308-TF	9.70	9.52	3.18	0.80	●			●			●						1.00-4.00	0.12-0.35
CNMG 120404-TF	12.90	12.70	4.76	0.40	●		●	●		●		●		●	●	●	1.00-4.00	0.12-0.35
CNMG 120408-TF	12.90	12.70	4.76	0.80	●	●	●	●	●	●	●	●	●	●	●	●	1.00-4.00	0.12-0.35
CNMG 120412-TF	12.90	12.70	4.76	1.20	●		●	●	●	●	●	●		●	●	●	1.50-4.50	0.15-0.40
CNMG 160608-TF	16.12	15.88	6.35	0.80											●	●	1.00-6.00	0.12-0.35
CNMG 160612-TF	16.12	15.88	6.35	1.20				●									1.50-6.00	0.15-0.45
CNMG 190612-TF	19.30	19.05	6.35	1.20				●									1.50-6.50	0.20-0.55
CNGG 120408-TF	12.96	12.70	4.76	0.80												●	1.00-4.00	0.12-0.35

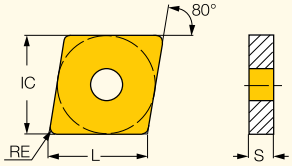
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

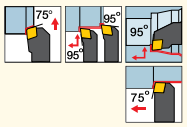
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • DCLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW

ISOTURN

CNMG-GN

Double-Sided 80° Rhombic Inserts for General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC6015	IC8150	IC20	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120404-GN	12.90	12.70	4.76	0.40	●	●		●		●	●		●				1.00-4.00	0.14-0.40
CNMG 120408-GN	12.90	12.70	4.76	0.80	●	●	●	●	●	●	●	●		●	●	●	1.00-4.50	0.16-0.45
CNMG 120412-GN	12.90	12.70	4.76	1.20	●	●		●		●			●	●	●	●	1.50-5.00	0.22-0.50
CNMG 160612-GN	16.12	15.88	6.35	1.20	●			●		●		●					2.00-7.00	0.22-0.60
CNMG 160616-GN	16.12	15.88	6.35	1.60				●									2.00-7.00	0.22-0.75
CNMG 190608-GN	19.30	19.05	6.35	0.80				●									1.50-8.00	0.20-0.70
CNMG 190612-GN	19.30	19.05	6.35	1.20	●	●		●		●							2.00-7.98	0.25-0.70

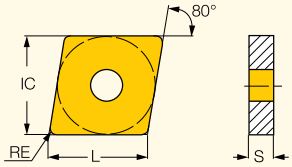
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

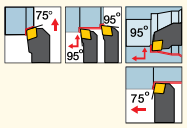
Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • DCLNR/L-JHP-MC • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW

ISOTURN

CNMG-NR

Double-Sided 80° Rhombic Inserts with a Special Chipformer for Heavy Machining





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC6015	IC8150	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 120408-NR	12.90	12.70	4.76	0.80		●	●	●	●	●	●	●	●	●	●	1.00-5.00	0.15-0.50
CNMG 120412-NR	12.90	12.70	4.76	1.20	●	●		●		●	●		●			1.00-5.00	0.23-0.55
CNMG 120416-NR	12.90	12.70	4.76	1.60						●						1.00-5.00	0.30-0.60
CNMG 160608-NR	16.12	15.88	6.35	0.80		●		●								1.50-6.00	0.25-0.50
CNMG 160612-NR	16.12	15.88	6.35	1.20		●		●						●	●	2.00-7.00	0.30-0.60
CNMG 160616-NR	16.12	15.88	6.35	1.60	●	●		●		●		●	●	●	●	2.50-7.00	0.30-0.70
CNMG 190608-NR	19.30	19.05	6.35	0.80		●		●								3.50-8.00	0.30-0.72
CNMG 190612-NR	19.30	19.05	6.35	1.20		●		●						●	●	3.50-8.00	0.30-0.80
CNMG 190616-NR	19.30	19.05	6.35	1.60	●	●		●		●				●	●	4.00-10.00	0.40-0.85
CNMG 190624-NR	19.30	19.05	6.35	2.40				●								4.00-10.00	0.40-1.20
CNMG 250924-NR	25.79	25.40	9.52	2.40				●								6.00-12.00	0.40-1.20

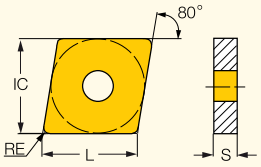
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

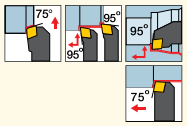
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

ISOTURN

CNMG-MR

Double-Sided 80° Rhombic Inserts for Rough Turning on Stainless Steel and Soft Materials





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8350	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMG 160612-MR	16.12	15.88	6.35	1.20	●		●	●	2.00-10.00	0.30-0.90
CNMG 190612-MR	19.03	19.05	6.35	1.20	●	●	●	●	2.00-10.00	0.30-0.90

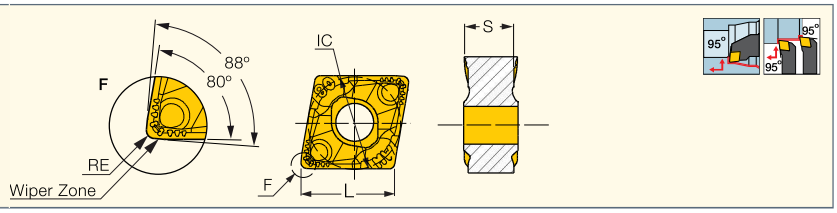
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: C#-PCLNR/L-X • DCBNR/L • DCLNR/L • MCLNR/L • PCBNR/L • PCLNR/L • PCLNR/L-X • A/S-PCLNR/L-X/G

HELITURN LD

CNMX-M3/4PW

Double-Sided 80° Rhombic Inserts with a High Helical Cutting Edge for High Metal Removal Rates



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC20N	IC520N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMX 090604-M3PW	9.67	9.52	4.40	0.40	●		●	●					1.00-4.50	0.20-0.50
CNMX 090608-M3PW	9.67	9.52	4.40	0.80	●		●	●	●	●			1.50-5.00	0.25-0.60
CNMX 120708-M4PW	12.90	12.70	6.78	0.80		●	●	●			●	●	1.50-6.00	0.25-0.60
CNMX 120712-M4PW	12.90	12.70	6.78	1.20		●	●	●			●	●	2.00-6.00	0.30-0.80
CNMX 120716-M4PW	12.90	12.70	6.78	1.60		●	●	●			●	●	2.00-6.00	0.30-1.00
CNMX 160712-M4PW	16.12	15.88	6.40	1.20			●	●			●		2.00-8.00	0.30-0.80
CNMX 160716-M4PW	16.12	15.88	6.40	1.60			●	●			●		2.00-8.00	0.30-1.00

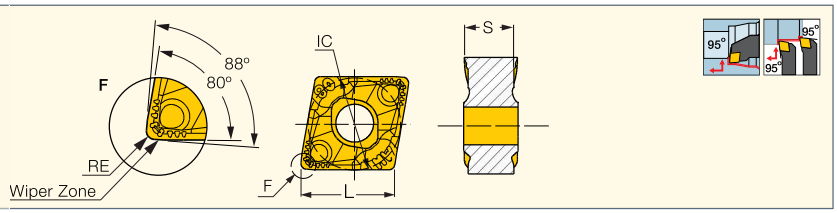
- PCLNR/L...X and A..-PCLNR/L-X are most recommended as they were designed especially for this insert
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PCLNR/L-X/G • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCLNR/L • DCLNR/L-JHP-MC • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC

HELITURN LD

CNMX-M3/4MW

Double-Sided 80° Rhombic Inserts with a High Helical Cutting Edge for High Metal Removal Rates of Stainless Steel



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC8150	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMX 090604-M3MW	9.67	9.52	4.40	0.40	●	●	●				0.80-4.00	0.15-0.45
CNMX 090608-M3MW	9.67	9.52	4.40	0.80	●	●	●				1.00-5.00	0.20-0.60
CNMX 120704-M4MW	12.90	12.70	6.78	0.40			●		●	●	0.80-5.00	0.15-0.45
CNMX 120708-M4MW	12.90	12.70	6.78	0.80	●	●	●	●	●	●	1.00-6.00	0.20-0.60
CNMX 120712-M4MW	12.90	12.70	6.78	1.20		●	●	●	●	●	2.00-6.00	0.30-0.80

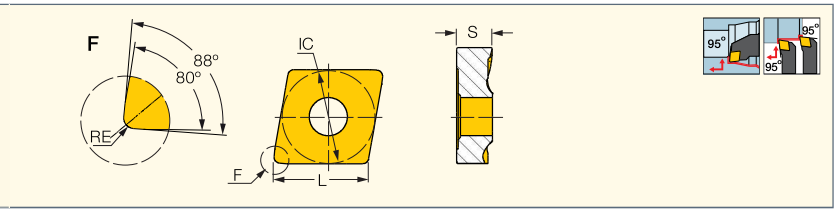
- PCLNR/L...X and A..-PCLNR/L-X are most recommended as they were designed especially for this insert
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PCLNR/L-X/G • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCLNR/L • DCLNR/L-JHP-MC • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC

HELITURN LD

CNMM-M4PW

Very Positive Radial Insert with a Helical Cutting Edge and Positive Rake for Heavy Machining Applications



Designation	Dimensions IC	S	RE	L	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 120408-M4PW	12.70	4.76	0.80	12.90	●	●	1.50-5.00	0.24-0.59

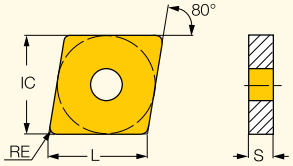
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

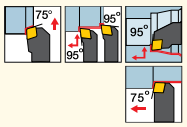
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • DCLNR/L-JHP-MC

ISOTURN

CNMM-R3P

Single-Sided 80° Rhombic Inserts for Rough Turning Applications on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 120408-R3P	12.90	12.70	4.76	0.80	•	•	•	0.70-7.50	0.20-0.55
CNMM 120412-R3P	12.90	12.70	4.76	1.20	•	•	•	1.00-7.50	0.25-0.70
CNMM 120416-R3P	12.90	12.70	4.76	1.60	•	•	•	1.50-7.50	0.30-0.90
CNMM 160608-R3P	16.12	15.88	6.35	0.80	•	•	•	2.00-9.50	0.20-0.55
CNMM 160612-R3P	16.12	15.88	6.35	1.20	•	•	•	2.00-9.50	0.30-0.70
CNMM 160616-R3P	16.12	15.88	6.35	1.60	•	•	•	2.00-9.50	0.30-0.90
CNMM 190612-R3P	19.34	19.05	6.35	1.20	•	•	•	3.00-12.00	0.25-0.80
CNMM 190616-R3P	19.34	19.05	6.35	1.60	•	•	•	3.50-12.00	0.30-0.90
CNMM 190624-R3P	19.34	19.05	6.35	2.40	•	•	•	3.50-12.00	0.30-1.20
CNMM 250924-R3P	25.79	25.40	9.52	2.40	•	•	•	4.00-15.00	0.40-1.20

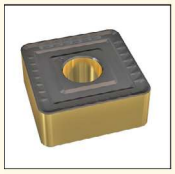
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

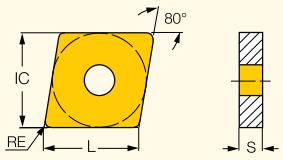
Tools: A/S-PCLNR/L • C#-MULNR/L-MW • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • DCBNR/L • DCLNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MCLNR/L • MULNR/L-12MW • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • S-DCLNR/L • S-MULNR-MW • A/S-PCLNR/L-X/G • DCLNR/L-JHP-MC

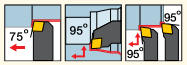
ISOTURN

CNMM-H3P

Single-Sided 80° Rhombic Insert with a Strong Cutting Edge for Extra Rough Turning







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 190624-H3P	19.34	19.05	6.35	2.40	•	•	4.00-9.00	0.55-1.20
CNMM 250924-H3P	25.79	25.40	9.52	2.40	•	•	5.00-12.00	0.55-1.30

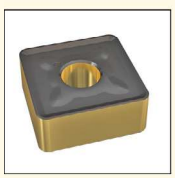
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

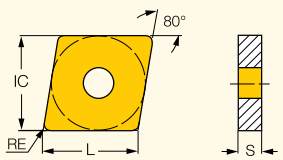
Tools: A/S-PCLNR/L • DCBNR/L • DCLNR/L • MCLNR/L • PCBNR/L • PCLNR/L

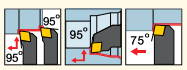
ISOTURN

CNMM-H4P

Single-Sided 80° Rhombic Insert with a Strong Cutting Edge for Extra Rough Turning







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 190624-H4P	19.34	19.05	6.35	2.40	•	•	4.00-12.00	0.50-1.10
CNMM 250924-H4P	25.79	25.40	9.52	2.40	•	•	5.00-15.00	0.55-1.50

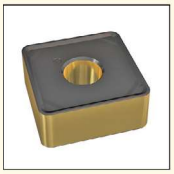
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

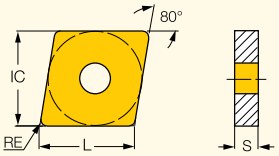
Tools: A/S-PCLNR/L • DCBNR/L • DCLNR/L • MCLNR/L • PCBNR/L • PCLNR/L

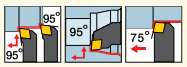
ISOTURN

CNMM-H5P

Single-Sided 80° Rhombic Insert with a Strong Cutting Edge for Extra Rough Turning







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 250924-H5P	25.79	25.40	9.52	2.40	●	●	5.00-15.00	0.55-1.50

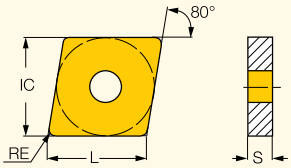
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

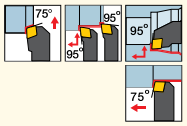
Tools: PCLNR/L

ISOTURN

CNMM-NR

Single-Sided 80° Rhombic Inserts for Rough Turning Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8150	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMM 190616-NR	19.03	19.05	6.35	1.60	●	●	2.00-10.00	0.40-1.00

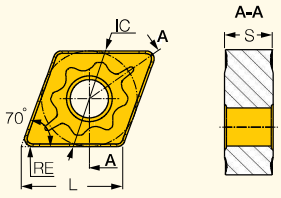
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: DCBNR/L • DCLNR/L • MCLNR/L • PCBNR/L • PCLNR/L

ISOTURN

XNMG-F3P

Double-Sided 70° Rhombic Inserts for Semi-Finishing and Finishing Applications



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-F3P	10.14	9.53	4.76	0.40	●	●	●	●	0.50-3.50	0.07-0.25
XNMG 090408-F3P	10.14	9.53	4.76	0.80	●	●	●	●	0.90-3.50	0.08-0.25
XNMG 120404-F3P	13.52	12.70	4.76	0.40	●	●	●	●	0.50-3.50	0.07-0.25
XNMG 120408-F3P	13.52	12.70	4.76	0.80	●	●	●	●	0.90-3.50	0.08-0.25

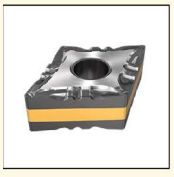
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

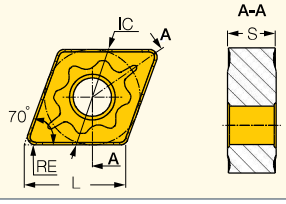
Tools: DXJNR/L-X-JHP-MC

ISOTURN

XNMG-M3P

Double-Sided 70° Rhombic Inserts for Medium Machining Conditions on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-M3P	10.14	9.53	4.76	0.40	●	●	●	●	0.50-3.50	0.07-0.25
XNMG 090408-M3P	10.14	9.53	4.76	0.80	●	●	●	●	0.90-3.50	0.08-0.25
XNMG 120404-M3P	13.52	12.70	4.76	0.40	●	●	●	●	0.50-3.50	0.07-0.25
XNMG 120408-M3P	13.52	12.70	4.76	0.80	●		●	●	0.90-3.50	0.08-0.25

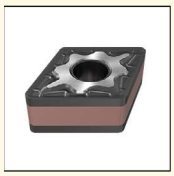
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

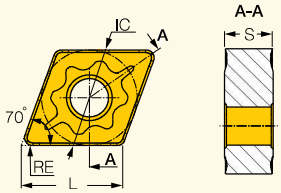
Tools: DXJNR/L-X-JHP-MC

ISOTURN

XNMG-F3M

Double-sided 70° Rhombic Inserts for Stainless Steel Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-F3M	10.14	9.53	4.76	0.40	●	●	●	●	●	0.10-1.50	0.05-0.30
XNMG 090408-F3M	10.14	9.53	4.76	0.80	●	●	●	●	●	0.10-1.50	0.10-0.40
XNMG 120404-F3M	13.52	12.70	4.76	0.40	●	●	●	●	●	0.10-1.50	0.05-0.30
XNMG 120408-F3M	13.52	12.70	4.76	0.80	●	●	●	●	●	0.10-1.50	0.10-0.40

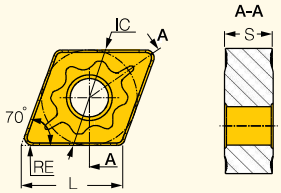
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: DXJNR/L-X-JHP-MC

ISOTURN

XNMG-M3M

Double-Sided 70° Rhombic Inserts for Machining Stainless and Low Carbon Steel



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
XNMG 090404-M3M	10.14	9.53	4.76	0.40	●	●	●	●	●	0.40-4.00	0.12-0.40
XNMG 090408-M3M	10.14	9.53	4.76	0.80	●	●	●	●	●	0.50-4.50	0.15-0.50
XNMG 120404-M3M	13.52	12.70	4.76	0.40	●	●	●	●	●	0.50-5.00	0.15-0.50
XNMG 120408-M3M	13.52	12.70	4.76	0.80	●	●	●	●	●	0.50-5.00	0.15-0.50

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

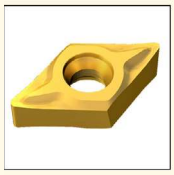
Tools: DXJNR/L-X-JHP-MC

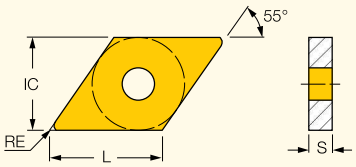
ISOTURN

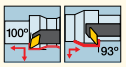
MINIPTURN POSITIVE DOUBLE SIDED

DNGP-F2P

Double-Sided 55° Rhombic Inserts for Semi-Finishing and Finishing Applications on Alloyed Steel







Designation	Dimensions L	IC	S	RE	IC530N	Recommended Machining Data a_p (mm)	f (mm/rev)
DNGP 070302R/L-F2P	7.70	6.35	3.18	0.20	●	0.30-2.00	0.08-0.30
DNGP 070304R/L-F2P	7.70	6.35	3.18	0.40	●	0.30-2.00	0.08-0.30
DNGP 070308R/L-F2P	7.70	6.35	3.18	0.80	●	0.30-2.00	0.08-0.30

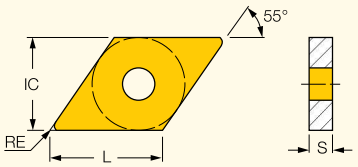
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

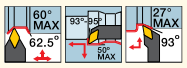
Tools: A/E-SDXNR/L-07 • A/E-SDZNR/L-07 • NQCH-SDJNR/L-S-JHP • PDJNR/L-S

ISOTURN

DNMG-F3P

Double-Sided 55° Rhombic Inserts for Semi-Finishing and Finishing on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-F3P	11.63	9.52	4.76	0.40	●	●	●	●	0.80-3.00	0.07-0.25
DNMG 110408-F3P	11.63	9.52	4.76	0.80	●	●	●	●	1.00-3.50	0.08-0.25
DNMG 110412-F3P	11.63	9.52	4.76	1.20	●	●	●	●	1.40-4.00	0.10-0.25
DNMG 150404-F3P	15.50	12.70	4.76	0.40	●	●	●	●	0.80-3.00	0.07-0.25
DNMG 150408-F3P	15.50	12.70	4.76	0.80	●	●	●	●	1.00-3.50	0.08-0.25
DNMG 150412-F3P	15.50	12.70	4.76	1.20	●	●	●	●	1.40-4.00	0.10-0.25
DNMG 150604-F3P	15.50	12.70	6.35	0.40	●	●	●	●	0.80-3.00	0.07-0.25
DNMG 150608-F3P	15.50	12.70	6.35	0.80	●	●	●	●	1.00-3.50	0.08-0.25
DNMG 150612-F3P	15.50	12.70	6.35	1.20	●	●	●	●	1.40-4.00	0.10-0.25

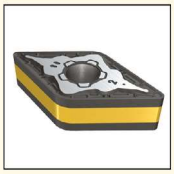
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

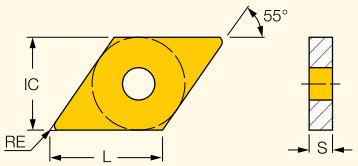
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

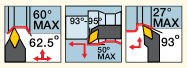
ISOTURN

DNMG-M3P

Double-Sided 55° Rhombic Inserts for Medium Machining Conditions on Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110408-M3P	11.63	9.52	4.76	0.80	●	●	●			●	0.50-5.00	0.15-0.50
DNMG 110412-M3P	11.63	9.52	4.76	1.20	●		●			●	0.80-5.00	0.18-0.60
DNMG 150408-M3P	15.50	12.70	4.76	0.80	●	●	●	●	●	●	0.50-6.00	0.15-0.50
DNMG 150412-M3P	15.50	12.70	4.76	1.20	●					●	0.80-6.00	0.18-0.60
DNMG 150608-M3P	15.50	12.70	6.35	0.80	●	●	●			●	0.50-6.00	0.15-0.50
DNMG 150612-M3P	15.50	12.70	6.35	1.20	●	●	●			●	0.80-6.00	0.18-0.60

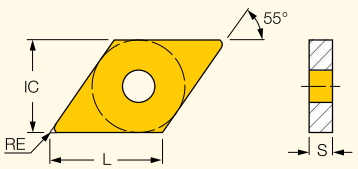
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

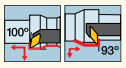
Tools: A/S-PDUNR/L • AVC-DDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNGP-F2M

Double-Sided 55° Rhombic Inserts for Semi-Finishing and Finishing on Stainless Steel





Designation	Dimensions L	IC	S	RE	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
DNGP 070302R/L-F2M	7.70	6.35	3.18	0.20	●	0.30-2.00	0.08-0.30
DNGP 070304R/L-F2M	7.70	6.35	3.18	0.40	●	0.30-2.00	0.08-0.30
DNGP 070308R/L-F2M	7.70	6.35	3.18	0.80	●	0.30-2.00	0.08-0.30

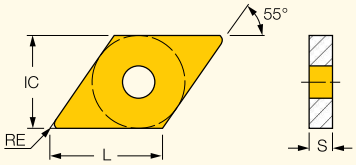
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

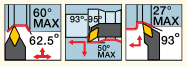
Tools: A/E-SDXNR/L-07 • A/E-SDZNR/L-07 • NQCH-SDJNR/L-S-JHP • PDJNR/L-S

ISOTURN

DNMG-F3M

Double-Sided 55° Rhombic Inserts for Finish on Turning Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-F3M	11.63	9.52	4.76	0.40	•	•	•	•	•		0.10-1.50	0.05-0.32
DNMG 110408-F3M	11.63	9.52	4.76	0.80	•	•	•	•	•		0.10-1.50	0.10-0.42
DNMG 110412-F3M	11.63	9.52	4.76	1.20		•	•	•	•		0.15-2.00	0.15-0.52
DNMG 150404-F3M	15.50	12.70	4.76	0.40	•	•	•	•	•	•	0.10-1.50	0.05-0.30
DNMG 150408-F3M	15.50	12.70	4.76	0.80	•	•	•	•	•		0.10-1.50	0.10-0.40
DNMG 150412-F3M	15.50	12.70	4.76	1.20		•	•	•	•		0.20-2.50	0.15-0.50
DNMG 150604-F3M	15.50	12.70	6.35	0.40	•	•	•	•	•		0.10-1.50	0.05-0.30
DNMG 150608-F3M	15.50	12.70	6.35	0.80	•	•	•	•	•		0.10-1.50	0.10-0.40
DNMG 150612-F3M	15.50	12.70	6.35	1.20	•	•	•	•	•		0.20-2.50	0.15-0.50

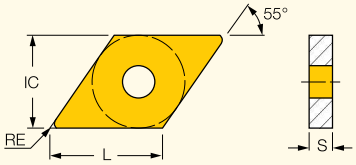
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

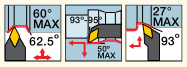
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-M3M

Double-Sided 55° Rhombic Inserts for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-M3M	11.63	9.52	4.76	0.40	•	•	•	•	•		0.50-3.50	0.12-0.40
DNMG 110408-M3M	11.63	9.52	4.76	0.80	•	•	•	•	•		0.50-4.00	0.15-0.50
DNMG 110412-M3M	11.63	9.52	4.76	1.20	•	•	•	•	•		0.50-4.00	0.20-0.60
DNMG 150408-M3M	15.50	12.70	4.76	0.80	•	•	•	•	•	•	0.50-5.00	0.15-0.50
DNMG 150412-M3M	15.50	12.70	4.76	1.20	•	•	•	•	•		0.50-5.00	0.20-0.60
DNMG 150608-M3M	15.50	12.70	6.35	0.80	•	•	•	•	•		0.50-5.00	0.15-0.50
DNMG 150612-M3M	15.50	12.70	6.35	1.20	•	•	•	•	•		0.50-5.00	0.20-0.60

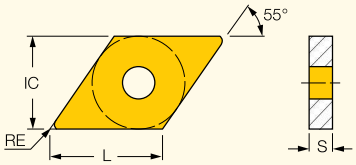
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

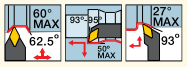
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-F3S

Double-Sided 55° Rhombic Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-F3S	11.63	9.52	4.76	0.40	•	•	0.10-1.50	0.05-0.32
DNMG 110408-F3S	11.63	9.52	4.76	0.80	•	•	0.10-1.50	0.10-0.40
DNMG 150404-F3S	15.50	12.70	4.76	0.40	•	•	0.10-1.50	0.05-0.32
DNMG 150408-F3S	15.50	12.70	4.76	0.80	•	•	0.10-1.50	0.10-0.40
DNMG 150604-F3S	15.50	12.70	6.35	0.40	•	•	0.10-1.50	0.05-0.32
DNMG 150608-F3S	15.50	12.70	6.35	0.80	•	•	0.10-1.50	0.10-0.40

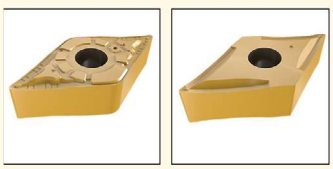
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

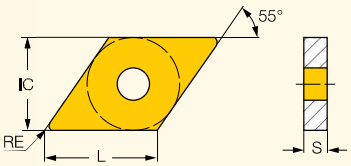
Tools: A/S-PDUNR/L • AVC-DDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • DDJNR/L-JHP-MC • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L

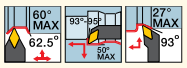
ISOTURN

DNMG-CERMET

Double-Sided 55° Rhombic Cermet Grade Inserts for Semi-Finishing and Finishing Applications



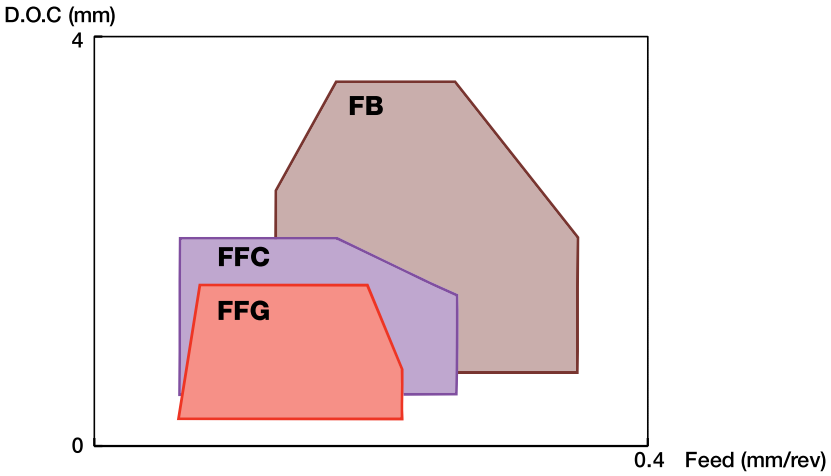




Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-FFG	11.63	9.52	4.76	0.40		●	0.70-2.00	0.07-0.22
DNMG 110402-FFC	11.63	9.52	4.76	0.20	●		0.40-2.50	0.05-0.20
DNMG 110404-FFC	11.63	9.52	4.76	0.40	●	●	0.80-3.00	0.07-0.25
DNMG 110408-FFC	11.63	9.52	4.76	0.80	●	●	1.00-3.50	0.08-0.25
DNMG 150404-FFC	15.50	12.70	4.76	0.40		●	0.80-3.00	0.07-0.25
DNMG 150604-FB	15.50	12.70	6.35	0.40	●		0.50-3.00	0.07-0.23
DNMG 150604-FFC	15.50	12.70	6.35	0.40		●	0.80-3.00	0.08-0.25

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

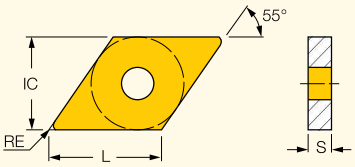
Tools: A/S-PDUNR/L • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • DDJNR/L-JHP-MC

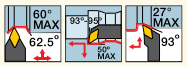


ISOTURN

DNMG-NF

Double-Sided 55° Rhombic Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC530N	IC8150	IC20N	IC520N	IC5010	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110402-NF	11.63	9.52	4.76	0.20		●	●		●	●			●	●	0.40-2.50	0.07-0.18
DNMG 110404-NF	11.63	9.52	4.76	0.40	●		●		●	●	●	●	●	●	0.80-3.00	0.07-0.25
DNMG 110408-NF	11.63	9.52	4.76	0.80	●		●	●	●	●			●	●	1.00-3.50	0.08-0.25
DNMG 150404-NF	15.50	12.70	4.76	0.40			●	●					●	●	0.80-3.50	0.07-0.25
DNMG 150408-NF	15.50	12.70	4.76	0.80			●		●						1.00-3.51	0.08-0.25
DNMG 150604-NF	15.50	12.70	6.35	0.40			●	●					●	●	0.80-3.50	0.07-0.25

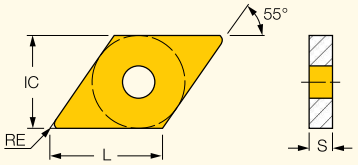
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

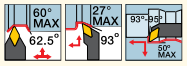
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG/DNGG-SF

Double-Sided 55° Rhombic Inserts for Super Finishing; Controls Chip Flow at Very Low Feeds and Depths of Cut





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC530N	IC520N	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-SF	11.63	9.52	4.76	0.40	●	●		0.50-3.00	0.05-0.25
DNGG 150401-SF	15.50	12.70	4.76	0.10			●	0.25-2.00	0.03-0.15
DNGG 150402-SF	15.50	12.70	4.76	0.20			●	0.40-2.50	0.05-0.20

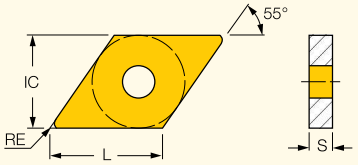
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PDUNR/L • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-WG

Double-Sided 55° Rhombic Wiper Inserts for High Surface Finish at High Feed Turning



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC5010	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 150408-WG	15.50	12.70	4.76	0.80	●			1.00-2.50	0.20-0.50
DNMG 150608-WG	15.50	12.70	6.35	0.80	●		●	1.00-2.50	0.18-0.40
DNMG 150612-WG	15.50	12.70	6.35	1.20	●	●		1.00-3.00	0.20-0.80

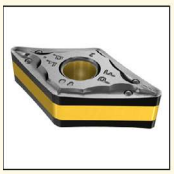
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

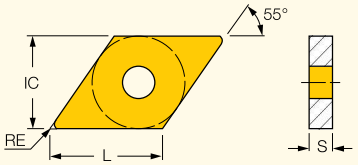
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • AVC-DDUNR/L • DDJNR/L-JHP-MC

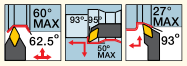
ISOTURN

DNMG-PF

Double-Sided 55° Rhombic Inserts for Finishing Applications on Alloyed and Stainless Steel







Designation	Dimensions L	IC	S	RE	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110408-PF	11.63	9.52	4.76	0.80	●	0.30-3.00	0.07-0.30
DNMG 150612-PF	15.50	12.70	6.35	1.20	●	1.00-4.00	0.10-0.30

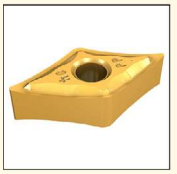
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

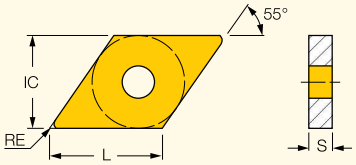
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

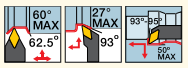
ISOTURN

DNMG/DNGG-PP

55° Double-Sided Rhombic Inserts for Machining Very Ductile Materials at Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC10	IC6015	IC8150	IC20	IC806	IC807	IC907	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-PP	11.63	9.52	4.76	0.40		●		●				●					0.40-3.00	0.12-0.30
DNMG 110408-PP	11.63	9.52	4.76	0.80	●			●	●		●						1.00-3.50	0.12-0.30
DNMG 150408-PP	15.50	12.70	4.76	0.80	●			●				●					1.00-4.00	0.12-0.30
DNMG 150604-PP	15.50	12.70	6.35	0.40										●	●		0.50-4.00	0.12-0.30
DNMG 150608-PP	15.50	12.70	6.35	0.80	●	●	●	●		●		●		●	●		1.00-3.50	0.12-0.30
DNGG 150604-PP	15.50	12.70	6.35	0.40											●		0.50-4.00	0.12-0.30
DNGG 150608-PP	15.50	12.70	6.35	0.80									●		●	●	1.00-4.00	0.12-0.30

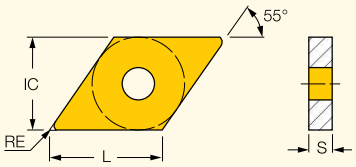
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

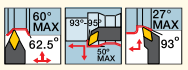
Tools: A/S-PDUNR/L • AVC-DDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-VL

Double-Sided 55° Rhombic Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC806	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-VL	11.63	9.52	4.76	0.40	●	●	0.50-3.50	0.10-0.25
DNMG 110408-VL	11.63	9.52	4.76	0.80	●	●	0.50-3.50	0.10-0.25
DNMG 150404-VL	15.50	12.70	4.76	0.40		●	0.50-3.50	0.10-0.25
DNMG 150408-VL	15.50	12.70	4.76	0.80	●	●	0.50-3.50	0.10-0.25

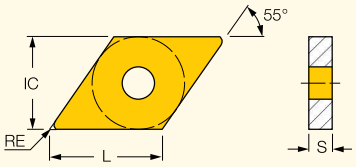
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

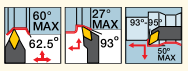
Tools: A/S-PDUNR/L • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG/DNGG-TF

Double-Sided 55° Rhombic Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC8250	IC530N	IC6015	IC8150	IC20	IC20N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110404-TF	11.63	9.52	4.76	0.40			●	●			●					1.00-3.00	0.12-0.30
DNMG 110412-TF	11.63	9.52	4.76	1.20			●									1.50-4.00	0.15-0.35
DNMG 150404-TF	15.50	12.70	4.76	0.40	●		●				●			●	●	1.00-3.00	0.15-0.30
DNMG 150408-TF	15.50	12.70	4.76	0.80	●	●	●		●	●	●		●	●	●	1.00-3.50	0.15-0.30
DNMG 150412-TF	15.50	12.70	4.76	1.20			●									1.50-4.00	0.12-0.40
DNMG 150604-TF	15.50	12.70	6.35	0.40		●	●		●	●	●	●		●	●	1.00-3.00	0.14-0.30
DNMG 150608-TF	15.50	12.70	6.35	0.80	●	●	●		●	●	●	●	●	●	●	1.00-3.50	0.15-0.30
DNMG 150612-TF	15.50	12.70	6.35	1.20	●	●	●		●	●	●		●	●	●	1.50-4.00	0.11-0.35
DNGG 150404-TF	15.50	12.70	4.76	0.40											●	1.00-3.00	0.15-0.30
DNGG 150408-TF	15.50	12.70	4.76	0.80											●	1.00-3.50	0.15-0.30

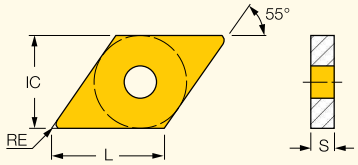
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

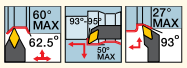
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-GN

Double-Sided 55° Rhombic Inserts for General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC20N	IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 110408-GN	11.63	9.52	4.76	0.80			●	●		●			1.00-4.00	0.18-0.38
DNMG 110412-GN	11.63	9.52	4.76	1.20			●	●					1.50-4.50	0.18-0.38
DNMG 150408-GN	15.50	12.70	4.76	0.80	●		●	●					1.00-4.00	0.18-0.18
DNMG 150412-GN	15.50	12.70	4.76	1.20	●	●	●	●		●			1.50-5.00	0.18-0.43
DNMG 150608-GN	15.50	12.70	6.35	0.80	●	●	●	●	●		●	●	1.00-4.00	0.18-0.38
DNMG 150612-GN	15.50	12.70	6.35	1.20	●		●	●			●	●	1.50-5.00	0.18-0.43

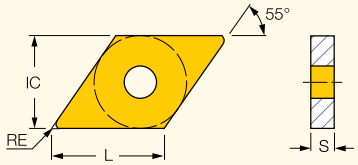
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

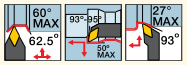
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMG-NR

Double-Sided 55° Rhombic Inserts with a Special Chipformer for Heavy Machining





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMG 150612-NR	15.50	12.70	6.35	1.20	●	●	2.00-6.00	0.23-0.50
DNMG 150616-NR	15.50	12.70	6.35	1.60	●	●	2.00-6.00	0.25-0.50

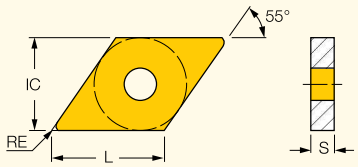
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

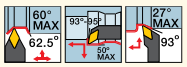
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMA

Double-Sided 55° Rhombic Inserts for Short Chipping Materials such as Cast Iron





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMA 150412	15.50	12.70	4.76	1.20		●	●	1.50-4.00	0.05-0.40
DNMA 150608	15.50	12.70	6.35	0.80	●	●	●	1.50-4.00	0.03-0.40
DNMA 150612	15.50	12.70	6.35	1.20	●	●	●	1.50-4.00	0.05-0.40

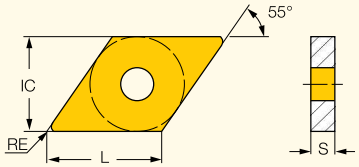
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

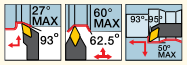
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMM-R3P

Single-Sided 55° Rhombic Inserts for Rough Turning Applications on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMM 150608-R3P	15.50	12.70	6.35	0.80	•	•	0.70-6.00	0.20-0.55
DNMM 150612-R3P	15.50	12.70	6.35	1.20	•	•	1.00-6.00	0.25-0.70
DNMM 150616-R3P	15.50	12.70	6.35	1.60	•	•	1.50-6.00	0.32-0.90

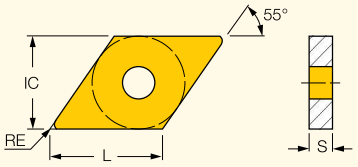
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

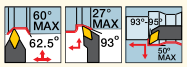
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

DNMM-NM

Single-Sided 55° Rhombic Inserts for Roughing Applications





Designation	Dimensions L	IC	S	RE	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMM 150612-NM	15.50	12.70	6.35	1.20	•	1.50-4.50	0.25-0.40

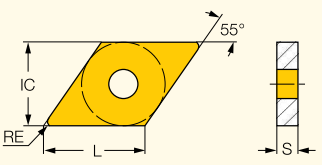
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

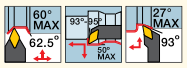
Tools: A/S-PDUNR/L • AVC-DDUNR/L-VH • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • AVC-DDUNR/L • DDJNR/L-JHP-MC

HELITURN LD

DNMX-M3P

Double-Sided 55° Rhombic Inserts with High Helical Cutting Edge for High Metal Removal Rates





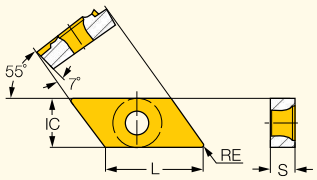
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC6015	IC8150	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMX 150608-M3P	15.50	12.70	6.35	0.80	•		•	•	•	•	•	•	2.00-7.00	0.25-0.50
DNMX 150612-M3P	15.50	12.70	6.35	1.20	•	•	•	•	•	•	•	•	2.50-7.00	0.30-0.60
DNMX 150616-M3P	15.50	12.70	6.35	1.60	•			•		•			2.50-5.50	0.30-0.60

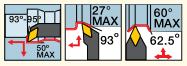
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PDUNR/L • C#-DDJNR/L • C#-PDJNR/L-JHP • DDJNR/L • HSK A63WH-DDJNR/L • HSK A63WH-DDNNN • PDJNR/L • PDJNR/L-JHP • S-DDUNR/L • DDJNR/L-JHP-MC

ISOTURN

KNMX
55° Parallelogram Profiling Inserts





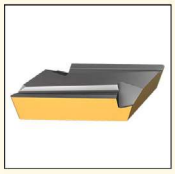
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC5010	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
KNMX 160405-LP	19.72	9.52	4.76	0.50	●	●		●		1.00-4.00	0.10-0.40
KNMX 160405-RP	19.72	9.52	4.76	0.50	●	●		●	●	1.00-4.00	0.10-0.40
KNMX 160410-LP	19.72	9.52	4.76	1.00		●	●			1.50-4.00	0.15-0.45
KNMX 160410-RP	19.72	9.52	4.76	1.00	●	●			●	1.50-4.00	0.15-0.45

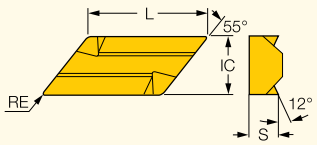
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

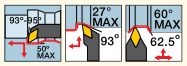
Tools: CKJNR/L • CKNNR/L • SKJNR/L

ISOTURN

KNUX
55° Parallelogram Profiling Inserts







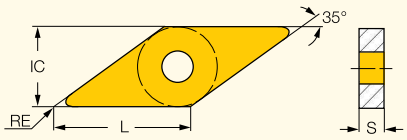
Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC9250	IC9025	IC9015	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
KNUX 160405 L11	19.72	9.52	4.76	0.50		●	●	●	1.00-4.00	0.10-0.40
KNUX 160405 R11	19.72	9.52	4.76	0.50	●	●	●	●	1.00-4.00	0.10-0.40
KNUX 160405 L12	19.72	9.52	4.76	0.50			●		1.50-4.00	0.10-0.40
KNUX 160405 R12	19.72	9.52	4.76	0.50		●			1.50-4.00	0.10-0.40
KNUX 160410 L11	19.72	9.52	4.76	1.00			●		1.50-4.00	0.15-0.45
KNUX 160410 R11	19.72	9.52	4.76	1.00		●	●		1.50-4.00	0.15-0.45
KNUX 160410 R/L12	19.72	9.52	4.76	1.00			●		1.50-4.00	0.15-0.45

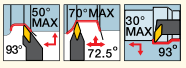
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: CKJNR/L • CKNNR/L

ISOTURN

VNMG-F3P
Double-Sided 35° Rhombic Inserts for Semi-Finishing and Finishing Applications on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-F3P	12.40	7.15	3.89	0.20	●	●	●		0.40-2.00	0.08-0.20
VNMG 160404-F3P	16.60	9.52	4.76	0.40	●	●	●	●	0.70-2.00	0.07-0.24
VNMG 160408-F3P	16.60	9.52	4.76	0.80	●	●	●	●	1.00-3.00	0.08-0.24

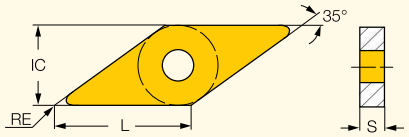
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

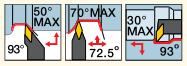
Tools: A-SVUNR/L • AVC-DVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • MVJNR/L • MVVNN • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-F3M

Double-Sided 35° Rhombic Inserts for Finishing on Stainless Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-F3M	12.40	7.15	3.97	0.20				●		●	0.10-1.50	0.03-0.20
VNMG 12T304-F3M	12.40	7.15	3.97	0.40				●		●	0.10-1.50	0.05-0.30
VNMG 12T308-F3M	12.40	7.15	3.97	0.80				●		●	0.10-1.50	0.05-0.30
VNMG 160404-F3M	16.60	9.52	4.76	0.40	●	●	●		●		0.10-1.50	0.05-0.30
VNMG 160408-F3M	16.60	9.52	4.76	0.80	●	●			●		0.10-1.50	0.05-0.30

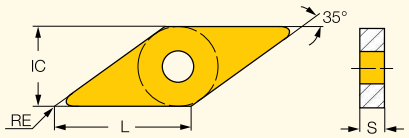
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

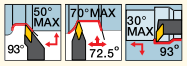
Tools: A-SVUNR/L • AVC-DVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • MVJNR/L • MVVNN • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-M3M

Double-Sided 35° Rhombic Inserts for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC4	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T308-M3M	12.40	7.15	3.89	0.80	●	●	●	●	●			0.70-2.00	0.08-0.20
VNMG 160404-M3M	16.60	9.52	4.76	0.40	●	●	●	●				0.70-3.00	0.07-0.20
VNMG 160408-M3M	16.60	9.52	4.76	0.80	●	●	●	●		●	●	0.10-1.50	0.05-0.30

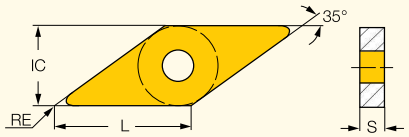
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

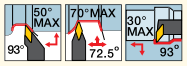
Tools: A-SVUNR/L • AVC-DVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • MVJNR/L • MVVNN • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-F3S

Double-Sided 35° Rhombic Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-F3S	12.40	7.15	3.97	0.20	●	●	0.10-1.50	0.05-0.20
VNMG 12T304-F3S	12.40	7.15	3.97	0.40	●	●	0.10-1.50	0.05-0.30
VNMG 12T308-F3S	12.40	7.15	3.97	0.80	●	●	0.10-1.50	0.05-0.30

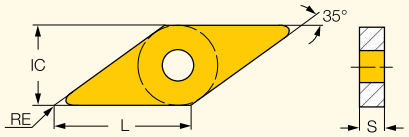
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

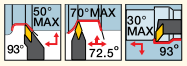
Tools: A-SVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-SF

Double-Sided 35° Rhombic Inserts for Super Finishing





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC570	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-SF	12.40	7.15	3.97	0.20	•	•	0.30-2.00	0.03-0.20
VNMG 12T304-SF	12.40	7.15	3.97	0.40	•	•	0.50-3.00	0.05-0.25

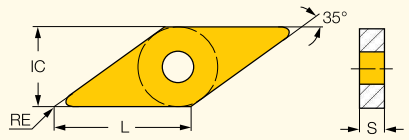
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

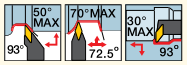
Tools: A-SVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-FNF-CERMET

Double-Sided 35° Rhombic Cermet Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-FNF	12.40	7.15	3.97	0.20	•		0.50-3.00	0.07-0.23
VNMG 12T304-FNF	12.40	7.15	3.97	0.40	•	•	0.50-3.00	0.07-0.23
VNMG 12T308-FNF	12.40	7.15	3.89	0.80	•		0.50-3.00	0.07-0.23

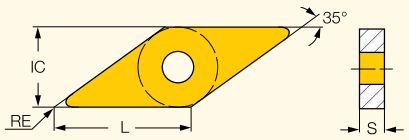
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

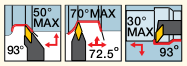
Tools: A-SVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG/VNGG-NF

Double-Sided 35° Rhombic Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC6025	IC8250	IC530N	IC10	IC6015	IC8150	IC20	IC20N	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 12T302-NF	12.40	7.15	3.97	0.20	•		•	•		•	•			•				•	•	0.40-2.50	0.07-0.18
VNMG 12T304-NF	12.40	7.15	3.97	0.40	•	•	•	•	•	•	•	•		•		•		•	•	0.70-2.00	0.07-0.24
VNMG 12T308-NF	12.40	7.15	3.97	0.80	•	•	•	•		•	•	•		•	•	•	•	•	•	1.00-3.00	0.08-0.24
VNMG 160404-NF	16.60	9.52	4.76	0.40	•		•	•			•	•						•	•	0.70-2.50	0.07-0.24
VNMG 160408-NF	16.60	9.52	4.76	0.80				•					•							1.00-3.00	0.08-0.25
VNGG 12T302-NF	12.40	7.15	3.90	0.20															•	0.40-2.50	0.05-0.17
VNGG 12T304-NF	12.40	7.15	3.90	0.40															•	0.50-3.00	0.05-0.25

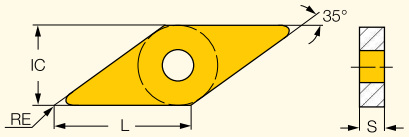
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

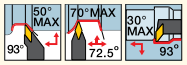
Tools: A-SVUNR/L • AVC-DVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • MVJNR/L • MVVNN • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMM-PP

Single-Sided 35° Rhombic Inserts for Machining Very Ductile Materials at Medium Cutting Conditions





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMM 12T304-PP	12.40	7.15	3.97	0.40	●	●	0.80-2.50	0.12-0.20
VNMM 12T308-PP	12.40	7.15	3.97	0.80	●	●	1.00-2.50	0.12-0.25

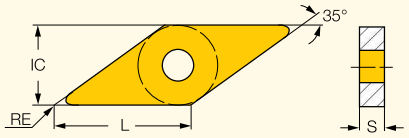
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

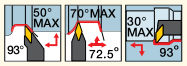
Tools: A-SVUNR/L • C#-SVJNR/L-F • HSK A63WH-SVVNN-F • SVANR/L-FS • SVJNR/L-F • SVVNN-F

ISOTURN

VNMG-TF

Double-Sided 35° Rhombic Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC8250	IC6015	IC8150	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMG 160408-TF	16.60	9.52	4.76	0.80	●	●	●	●	●	●	●	●	1.00-3.50	0.10-0.30
VNMG 160412-TF	16.60	9.52	4.76	1.20							●	●	1.00-4.00	0.12-0.38
VNMG 220408-TF	22.00	12.70	4.76	0.80			●						1.00-3.50	0.14-0.36

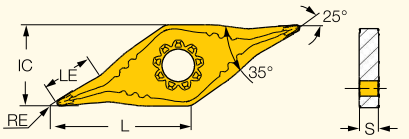
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

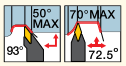
Tools: AVC-DVUNR/L • MVJNR/L • MVVNN

ISOTURN

YNMG-F3P

Double-Sided 25° Corner Inserts for Internal and External Deep and Narrow Profiling and Undercutting





Designation	Dimensions L	IC	LE	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
YNMG 160404-F3P	16.60	9.52	5.7	4.76	0.40	●	●	0.40-3.00	0.03-0.12
YNMG 160408-F3P	16.60	9.52	5.3	4.76	0.80	●	●	0.90-4.00	0.05-0.15

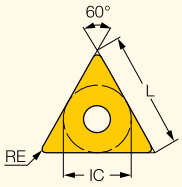
• Use IYSN 323 seat for these inserts • For user guide, see pages 122-134, 236-254

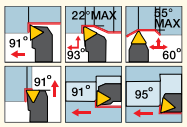
Tools: MVJNR/L • MVVNN

ISOTURN

TNMG-F3P

Double-Sided Triangular Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-F3P	16.50	9.52	4.76	0.40	●	●	●	●	0.50-2.00	0.07-0.25
TNMG 160408-F3P	16.50	9.52	4.76	0.80	●	●	●	●	0.90-3.00	0.08-0.25
TNMG 160412-F3P	16.50	9.52	4.76	1.20	●	●	●	●	1.30-4.00	0.10-0.25
TNMG 220408-F3P	22.00	12.70	4.76	0.80	●	●	●	●	0.90-3.00	0.08-0.25
TNMG 220412-F3P	22.00	12.70	4.76	1.20	●	●	●	●	1.30-4.00	0.10-0.25

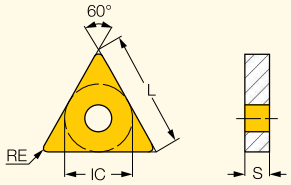
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

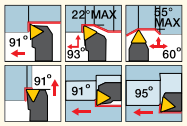
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-M3P

Double-Sided Triangular Inserts for Medium Machining Conditions on Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-M3P	16.50	9.52	4.76	0.40	●	●	●	●	0.40-5.00	0.10-0.30
TNMG 160408-M3P	16.50	9.52	4.76	0.80	●	●	●	●	0.50-5.00	0.15-0.50
TNMG 160412-M3P	16.50	9.52	4.76	1.20	●	●	●	●	0.80-5.00	0.18-0.60
TNMG 220408-M3P	22.00	12.70	4.76	0.80	●	●	●	●	0.50-6.60	0.15-0.50
TNMG 220412-M3P	22.00	12.70	4.76	1.20	●		●	●	0.80-6.60	0.18-0.60
TNMG 220416-M3P	22.00	12.70	4.76	1.60	●	●	●	●	1.00-6.60	0.23-0.65

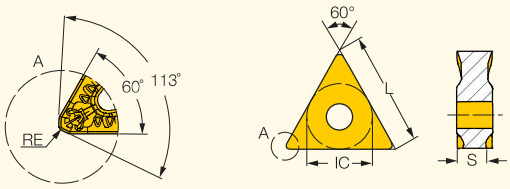
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

HELITURN LD

TNMX-M3/4PW

Double-Sided Triangular Inserts with High Helical Cutting Edge for High Metal Removal Rates on Steel



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMX 160604-M3PW	16.50	9.52	4.40	0.40	●	●	●	2.00-5.00	0.25-0.40
TNMX 160608-M3PW	16.50	9.52	4.40	0.80	●	●	●	2.50-5.50	0.30-0.50
TNMX 220712-M4PW	22.00	12.70	7.40	1.20		●	●	3.00-6.00	0.35-0.60
TNMX 220716-M4PW	22.00	12.70	7.40	1.60		●	●	3.50-6.50	0.40-0.70

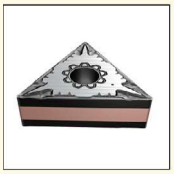
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

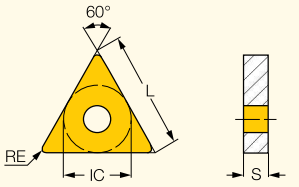
Tools: A-PTFNR/L-X/G • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC

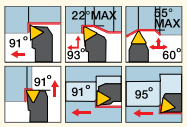
ISOTURN

TNMG-F3M

Double-Sided Triangular Inserts for Finish Turning on Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC20N	IC520N	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-F3M	16.50	9.52	4.76	0.40	●	●	●	●	●	●	●		0.10-1.50	0.05-0.32
TNMG 160408-F3M	16.50	9.52	4.76	0.80	●	●	●	●	●	●	●	●	0.10-1.50	0.10-0.42
TNMG 160412-F3M	16.50	9.52	4.76	1.20	●	●	●			●	●		0.15-2.00	0.15-0.52
TNMG 220404-F3M	22.00	12.70	4.76	0.40	●	●	●			●	●		0.10-1.50	0.05-0.32
TNMG 220408-F3M	22.00	12.70	4.76	0.80	●	●	●			●	●		0.10-1.50	0.10-0.42
TNMG 220412-F3M	22.00	12.70	4.76	1.20		●	●			●	●		0.15-2.00	0.15-0.52

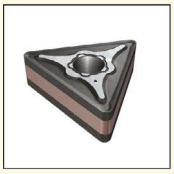
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

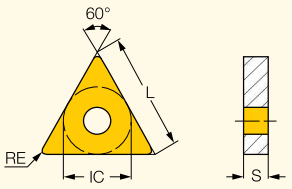
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

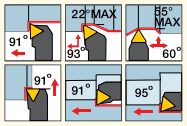
ISOTURN

TNMG-M3M

Double-Sided Triangular Inserts for Machining Stainless and Low Carbon Steel







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC5500	IC6025	IC6015	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-M3M	16.50	9.52	4.76	0.40	●				●		0.50-4.00	0.15-0.50
TNMG 160408-M3M	16.50	9.52	4.76	0.80	●	●	●	●	●	●	0.50-4.00	0.15-0.50
TNMG 160412-M3M	16.50	9.52	4.76	1.20	●		●	●	●		0.50-4.00	0.20-0.60
TNMG 220408-M3M	22.00	12.70	4.76	0.80	●		●	●	●		0.50-5.00	0.15-0.50
TNMG 220412-M3M	22.00	12.70	4.76	1.20	●		●	●	●		0.50-5.00	0.20-0.60
TNMG 220416-M3M	22.00	12.70	4.76	1.60	●		●	●	●		0.50-5.00	0.30-0.65

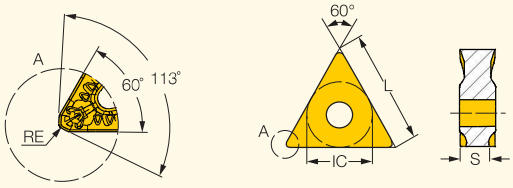
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

HELITURN LD

TNMX-M3/4MW

Double-Sided Triangular Inserts with High Helical Cutting Edge for High Metal Removal Rates on Stainless Steel



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMX 160604-M3MW	16.50	9.52	4.40	0.40	●	●			2.00-5.00	0.12-0.40
TNMX 160608-M3MW	16.50	9.52	4.40	0.80	●	●			2.50-5.50	0.15-0.50
TNMX 220704-M4MW	22.00	12.70	7.94	0.40	●	●	●	●	2.00-5.00	0.12-0.40
TNMX 220708-M4MW	22.00	12.70	7.94	0.80	●		●	●	2.50-5.50	0.15-0.50
TNMX 220712-M4MW	22.00	12.70	7.94	1.20	●	●	●	●	3.00-6.00	0.18-0.50

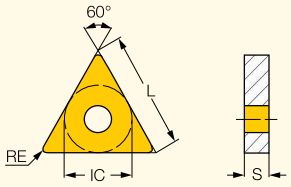
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

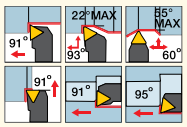
Tools: A-PTFNR/L-X/G • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC

ISOTURN

TNMG-F3S

Double-Sided 60° Triangular Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-F3S	16.50	9.52	4.76	0.40	•	•	0.10-1.50	0.05-0.32
TNMG 160408-F3S	16.50	9.52	4.76	0.80	•	•	0.10-1.50	0.10-0.40
TNMG 220404-F3S	22.00	12.70	4.76	0.40	•	•	0.10-1.50	0.05-0.32
TNMG 220408-F3S	22.00	12.70	4.76	0.80	•	•	0.10-1.50	0.10-0.40

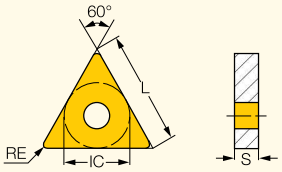
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

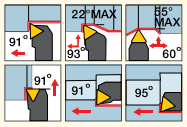
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-FFG-CERMET

Double-Sided Triangular Cermet Inserts for Semi-Finishing and Finishing Applications on Steel and Cast Iron





Designation	Dimensions L	IC	S	RE	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-FFG	16.50	9.52	4.76	0.40	•	0.50-2.00	0.07-0.25
TNMG 160408-FFG	16.50	9.52	4.76	0.80	•	0.90-2.50	0.08-0.25

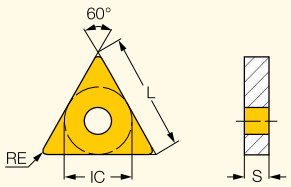
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

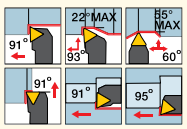
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-SF

Triangular Double-Sided Inserts for Super Finishing; Controls Chip Flow at Very Low Feeds and Depths of Cut





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC530N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-SF	16.50	9.52	4.76	0.40		•	•	0.40-2.00	0.04-0.25
TNMG 160408-SF	16.50	9.52	4.76	0.80	•	•		1.00-3.00	0.06-0.30

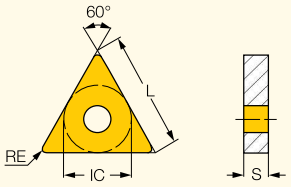
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

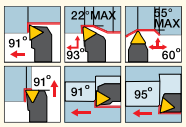
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-PF

Triangular Double-Sided Inserts for Finishing on Alloyed and Stainless Steel





Designation	Dimensions L	IC	S	RE	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160408-PF	16.50	9.52	4.76	0.80	●	0.80-3.00	0.08-0.30

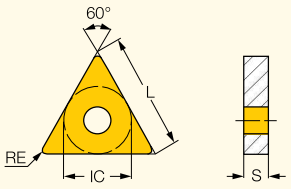
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

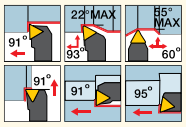
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-TF

Double-Sided Triangular Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC908	IC6015	IC8150	IC20	IC20N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160304-TF	16.50	9.52	3.18	0.40		●									1.00-3.00	0.12-0.30
TNMG 160308-TF	16.50	9.52	3.18	0.80										●	1.00-3.00	0.12-0.30
TNMG 160404-TF	16.50	9.52	4.76	0.40	●	●		●	●	●		●	●	●	1.00-3.00	0.12-0.30
TNMG 160408-TF	16.50	9.52	4.76	0.80	●	●	●	●	●		●	●	●	●	1.00-3.00	0.12-0.30
TNMG 160412-TF	16.50	9.52	4.76	1.20		●			●				●	●	1.00-5.00	0.12-0.40
TNMG 220404-TF	22.00	12.70	4.76	0.40	●	●			●				●	●	1.00-3.50	0.14-0.35
TNMG 220408-TF	22.00	12.70	4.76	0.80		●			●			●	●	●	1.00-4.00	0.15-0.40
TNMG 220412-TF	22.00	12.70	4.76	1.20		●							●	●	1.00-4.50	0.18-0.40

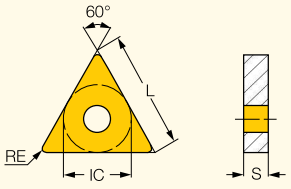
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

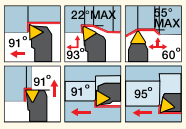
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-VL

Double-Sided Triangular Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-VL	16.50	9.52	4.76	0.40		●			0.80-3.50	0.10-0.25
TNMG 160408-VL	16.50	9.52	4.76	0.80	●	●	●	●	0.80-3.50	0.10-0.25

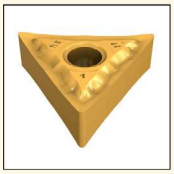
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

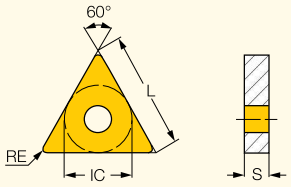
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

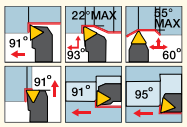
ISOTURN

TNMG/TNGG-PP

Double-Sided Triangular Inserts for Machining Very Ductile Materials at Medium Cutting Conditions







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC20	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNGG 160402-PP	16.50	9.52	4.76	0.20						●	0.50-1.50	0.05-0.25
TNMG 160404-PP	16.50	9.52	4.76	0.40		●	●		●		0.50-3.00	0.13-0.30
TNMG 160408-PP	16.50	9.52	4.76	0.80	●		●	●	●		1.00-3.00	0.12-0.30
TNMG 220404-PP	22.00	12.70	4.76	0.40	●		●				0.50-3.50	0.14-0.32
TNMG 220408-PP	22.00	12.70	4.76	0.80			●	●	●		1.00-3.50	0.14-0.32

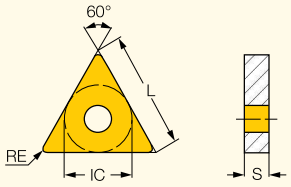
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

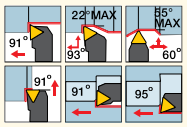
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-NF

Double-Sided Triangular Inserts for Semi-Finishing and Finishing Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 110304-NF	11.00	6.35	3.18	0.40	●		0.40-2.00	0.07-0.25
TNMG 160408-NF	16.50	9.52	4.76	0.80	●	●	1.00-3.00	0.08-0.25

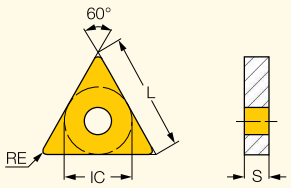
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

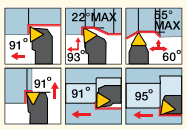
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMG-GN

Double-Sided Triangular Inserts for General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC20	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMG 160404-GN	16.50	9.52	4.76	0.40							●	●			1.00-3.00	0.12-0.30
TNMG 160408-GN	16.50	9.52	4.76	0.80	●	●	●	●	●	●	●	●	●	●	1.00-3.50	0.18-0.39
TNMG 160412-GN	16.50	9.52	4.76	1.20			●	●							1.50-4.00	0.18-0.43
TNMG 220408-GN	22.00	12.70	4.76	0.80	●	●	●	●							1.00-4.00	0.18-0.40
TNMG 220412-GN	22.00	12.70	4.76	1.20	●	●	●								1.50-4.50	0.18-0.45
TNMG 220416-GN	22.00	12.70	4.76	1.60			●								2.00-5.00	0.25-0.45
TNMG 270612-GN	27.50	15.88	6.35	1.20	●		●								2.00-6.00	0.25-0.45

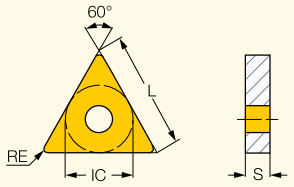
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

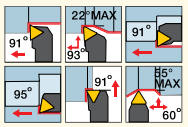
Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

TNMM-NR

Single-Sided Triangular Inserts with a Special Chipformer for Heavy Machining





Designation	Dimensions L	IC	S	RE	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMM 220416-NR	22.00	12.70	4.76	1.60	●	2.50-6.00	0.30-0.50

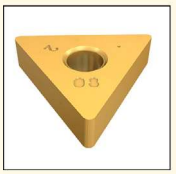
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

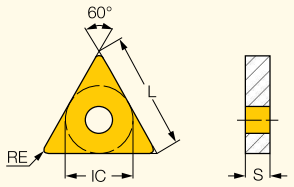
Tools: C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • S-MTLNR/L-W • S-PTFNR/L

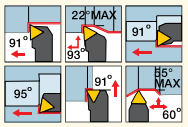
ISOTURN

TNMA

Double-Sided Triangular Inserts with no Chipformer for Short Chipping Materials







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20	IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMA 160404	16.50	9.52	4.76	0.40		●	●	●	0.50-3.00	0.05-0.21
TNMA 160408	16.50	9.52	4.76	0.80	●	●	●	●	1.00-4.00	0.05-0.25
TNMA 160412	16.50	9.52	4.76	1.20		●	●	●	1.50-4.50	0.10-0.29
TNMA 160416	16.50	9.52	4.76	1.60		●			1.50-4.50	0.10-0.40
TNMA 220408	22.00	12.70	4.76	0.80	●		●	●	1.50-5.00	0.05-0.33
TNMA 220412	22.00	12.70	4.76	1.20		●	●	●	1.50-5.00	0.10-0.33
TNMA 220416	22.00	12.70	4.76	1.60				●	1.50-5.00	0.10-0.37

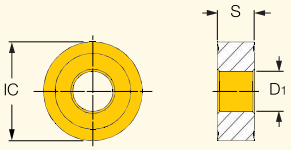
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A-PTFNR/L-X/G • C#-DTGNR/L • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN

RNMG

Double-Sided Round Negative Insert for Medium and Rough Profiling



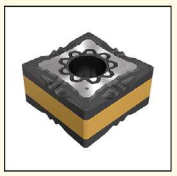
Designation	Dimensions IC	S	D1	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RNMG 120400	12.70	4.76	5.15	●	●	2.00-5.00	0.30-0.60

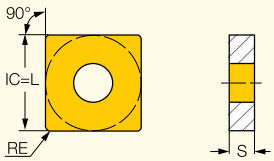
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

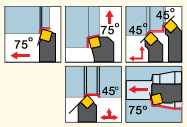
ISOTURN

SNMG-F3P

Double-Sided Square Inserts for Semi-Finishing and Finishing on Steel







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	IC520N	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-F3P	9.52	4.76	0.40	•	•	•	•		•	0.50-3.50	0.07-0.25
SNMG 090408-F3P	9.52	4.76	0.80	•			•	•	•	0.90-3.50	0.08-0.25
SNMG 120408-F3P	12.70	4.76	0.80	•	•	•			•	0.90-3.50	0.08-0.25
SNMG 120412-F3P	12.70	4.76	1.20	•	•	•			•	0.90-3.50	0.10-0.25

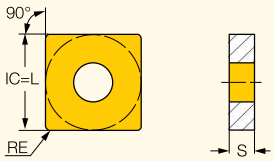
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

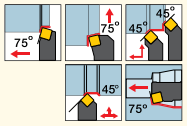
Tools: A-PSKNR/L-09 • C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-M3P

Double-Sided Square Inserts for Medium Machining Conditions on Steel





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-M3P	9.52	4.76	0.40	•	•	•	•	0.50-3.50	0.15-0.50
SNMG 090408-M3P	9.52	4.76	0.80	•	•	•	•	0.50-3.50	0.15-0.55
SNMG 120408-M3P	12.70	4.76	0.80	•	•	•	•	0.50-6.00	0.15-0.50
SNMG 120412-M3P	12.70	4.76	1.20	•		•	•	0.80-6.00	0.18-0.60
SNMG 150612-M3P	15.88	6.35	1.20	•	•		•	0.80-7.50	0.18-0.60
SNMG 150616-M3P	15.88	6.35	1.60	•		•	•	1.20-7.50	0.20-0.70

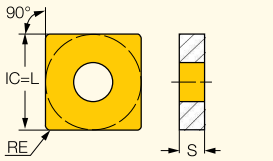
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

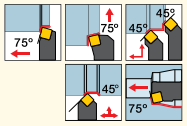
Tools: A-PSKNR/L-09 • C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-R3P

Double-Sided Square Inserts with Chipformer for rough Machining





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC5010	IC5005	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120408-R3P	12.70	4.76	0.80		•	•				2.00-5.00	0.20-0.60
SNMG 120412-R3P	12.70	4.76	1.20		•		•	•		2.00-5.00	0.30-0.70
SNMG 120416-R3P	12.70	4.76	1.60		•	•				2.50-6.00	0.30-0.70
SNMG 150608-R3P	15.88	6.35	0.80	•	•	•	•	•	•	2.50-8.00	0.30-0.70
SNMG 150612-R3P	15.88	6.35	1.20	•	•	•	•	•		2.50-8.00	0.30-0.70
SNMG 150616-R3P	15.88	6.35	1.20	•	•	•	•	•		2.50-8.00	0.30-0.70
SNMG 190612-R3P	19.05	6.35	1.20	•	•	•	•	•	•	3.00-8.00	0.40-0.70
SNMG 190616-R3P	19.05	6.35	1.60		•	•	•	•	•	3.50-10.00	0.40-0.70

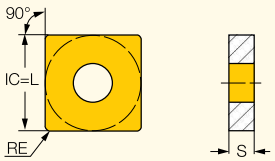
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

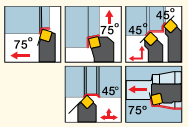
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • IHPR • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-F3M

Double-Sided Square Inserts for Stainless Steel Finishing Applications





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-F3M	9.52	4.76	0.40		●	●	●	●		0.50-3.50	0.05-0.30
SNMG 090408-F3M	9.52	4.76	0.80	●			●	●		0.50-3.50	0.05-0.30
SNMG 120404-F3M	12.70	4.76	0.40	●			●	●		0.90-3.50	0.10-0.40
SNMG 120408-F3M	12.70	4.76	0.80	●	●	●	●	●	●	0.90-3.50	0.10-0.40
SNMG 120412-F3M	12.70	4.76	1.20	●	●	●	●	●		0.90-3.50	0.10-0.40

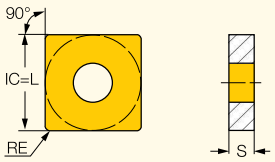
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

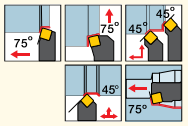
Tools: A-PSKNR/L-09 • C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-M3M

Double-Sided Square Inserts with a Special Chipformer for Heavy Machining





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-M3M	9.52	4.76	0.40	●				●		0.50-4.50	0.15-0.50
SNMG 090408-M3M	9.52	4.76	0.80	●	●	●		●		0.50-4.50	0.15-0.50
SNMG 120408-M3M	12.70	4.76	0.80	●	●	●		●	●	0.50-5.00	0.15-0.50
SNMG 120412-M3M	12.70	4.76	1.20	●	●	●	●	●		0.50-5.00	0.20-0.60
SNMG 120416-M3M	12.70	4.76	1.60	●	●	●				0.50-5.00	0.25-0.70
SNMG 150612-M3M	15.88	6.35	1.20	●	●	●		●		0.50-8.00	0.10-0.60
SNMG 150616-M3M	15.88	6.35	1.60	●	●	●		●		0.50-8.00	0.10-0.65
SNMG 190612-M3M	19.05	6.35	1.20		●	●				0.10-9.50	0.10-0.60
SNMG 190616-M3M	19.05	6.35	1.60		●	●				0.10-9.50	0.10-0.65

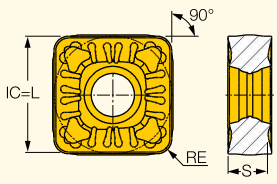
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

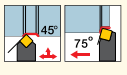
Tools: A-PSKNR/L-09 • C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

DOVEIQTURN HEAVY DUTY LINE

SOMG-R3P-IQ

Double-Sided 7° Negative Side Flank Square Inserts for Heavy Turning on Steel





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SOMG 150612-R3P-IQ	15.88	6.35	1.20	●	●	2.00-9.00	0.30-0.60
SOMG 150616-R3P-IQ	15.88	6.35	1.60	●	●	2.00-9.00	0.30-0.70
SOMG 190612-R3P-IQ	19.05	6.35	1.20	●	●	3.00-12.00	0.30-0.80
SOMG 190616-R3P-IQ	19.05	6.35	1.60	●	●	3.50-12.00	0.35-0.85
SOMG 190624-R3P-IQ	19.05	6.35	2.40	●	●	3.50-12.00	0.40-1.00
SOMG 250924-R3P-IQ	25.40	9.52	2.40	●	●	4.00-15.00	0.40-1.00

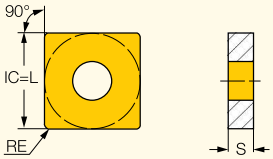
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

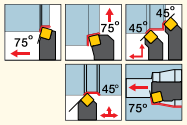
Tools: C#-PSROR/L-IQ • PSBOR/L-IQ • PSDON-IQ

ISOTURN

SNMG-R3M

Double-Sided 90° Square Inserts for Rough Machining on Stainless and Low Carbon Steel





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC806	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 190612 R3M	19.05	6.35	1.20		●	2.00-11.00	0.30-0.90
SNMG 190616-R3M	19.05	6.35	1.60	●	●	2.00-11.00	0.30-0.90

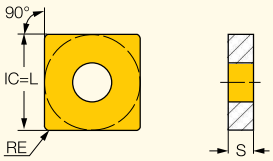
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

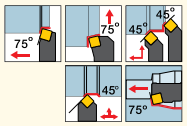
Tools: DSBNR/L • DSDNN • DSSNR/L • PSBNR/L • PSDNN • PSSNR/L

ISOTURN

SNMG-F3S

Double-Sided 90° Rhombic Inserts for Titanium and Heat Resistant Materials for Finishing Applications





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC806	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090404-F3S	9.52	4.76	0.40	●	●	0.10-1.50	0.05-0.35
SNMG 090408-F3S	9.52	4.76	0.80	●	●	0.10-1.50	0.05-0.35
SNMG 120404-F3S	12.70	4.76	0.40	●	●	0.10-1.50	0.05-0.35
SNMG 120408-F3S	12.70	4.76	0.80	●	●	0.10-1.50	0.05-0.35

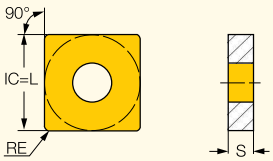
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

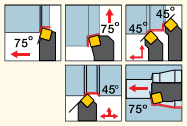
Tools: A-PSKNR/L-09 • C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-VL

Double-Sided Square Inserts with a Chipformer for High Temperature Alloys and Stainless Steel Valves





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC806	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120404-VL	12.70	4.76	0.40	●		1.00-5.00	0.10-0.25
SNMG 120408-VL	12.70	4.76	0.80	●	●	1.00-5.00	0.10-0.25

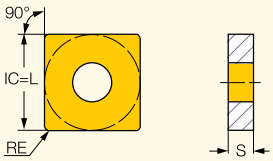
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

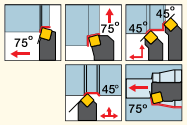
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-PP

Double-Sided Square Inserts for Machining Very Ductile Materials at Medium Cutting Conditions





Designation	Dimensions IC	S	RE	IC830	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120408-PP	12.70	4.76	0.80	●	1.00-4.00	0.14-0.30

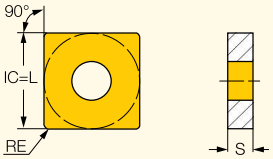
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

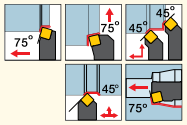
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-TF

Double-Sided Square Inserts for Machining a Wide Range of Materials at Medium Cutting Conditions





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC6015	IC8150	IC20	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 090304-TF	9.52	3.17	0.40		•							0.80-3.00	0.10-0.30
SNMG 120404-TF	12.70	4.76	0.40		•						•	1.00-4.00	0.12-0.35
SNMG 120408-TF	12.70	4.76	0.80	•	•	•			•	•	•	1.00-4.00	0.13-0.35
SNMG 120412-TF	12.70	4.76	1.20	•	•		•	•		•	•	1.50-4.00	0.15-0.40

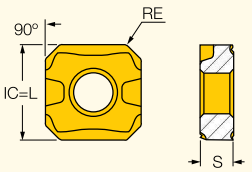
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-EM-M/R

Double-Sided Square Inserts for Medium Machining on High Temperature Alloys



Designation	Dimensions IC	S	RE	Tough ↔ Hard IC806	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120408-EM-M	12.70	4.76	0.80	•		1.00-3.00	0.20-0.40
SNMG 120408-EM-R	12.70	4.76	0.80	•	•	3.00-6.00	0.25-0.50

- Requires the use of RST 443R/L SET - seat when used on DSSNR/L tools and TSN 423-PIN SET seat when used on PSSNR/L-JHP and PSDNN-JHP tools
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: DSDNN • DSSNR/L • PSDNN • PSDNN-JHP • PSSNR/L • PSSNR/L-JHP

The inserts have 4 cutting edges (2 on each side) with truncated radii – a configuration which facilitates heat transfer from the cutting area. The two edges without chipbreakers (flat) are not used.

Toolholders

These inserts require the use of **RST 443R/L SET** - special seat when used on DSSNR/L tools and **TSN 423-PIN SET** seat when used on PSSNR/L-JHP and PSDNN–JHP tools. The standard seats should be replaced with the special ones which have a pin whose purpose is to prevent using the non-working flat cutting corners.

Correct insert position

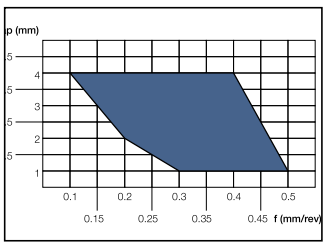
Wrong positioning

Orientation pin

Advantages

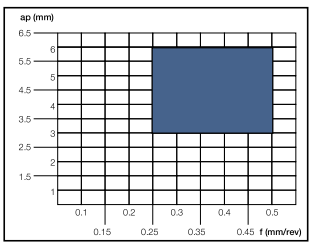
- Increased cutting speed (due to better heat transfer)
- Reduced notch wear (due to 45° approach angle)
- Increased feed (the 45° approach angle produces a thin chip)
- Increased productivity of up to 50%
- Ability to machine in two directions with the same tool, longitudinal and face turning

Chipbreaking Range SNMG 120408-EM-M



Material: Inconel 718 V_c: 50 m/min With coolant

Chipbreaking Range SNMG 120408-EM-R

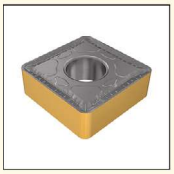


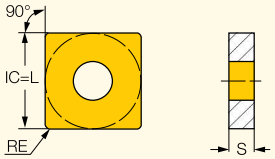
Material: Inconel 718 V_c: 50 m/min With coolant

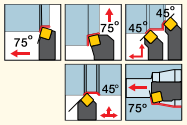
ISOTURN

SNMG-GN

Double-Sided Square Inserts
for General Applications







Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC20	IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120408-GN	12.70	4.76	0.80		●	●	●	●	●	●	●	1.00-5.00	0.20-0.45
SNMG 120412-GN	12.70	4.76	1.20				●					1.40-5.00	0.25-0.50
SNMG 150612-GN	15.88	6.35	1.20	●		●		●				2.00-7.00	0.30-0.60
SNMG 190612-GN	19.05	6.35	1.20	●	●	●						2.00-7.00	0.30-0.60
SNMG 190616-GN	19.05	6.35	1.60	●								2.00-9.00	0.30-0.65

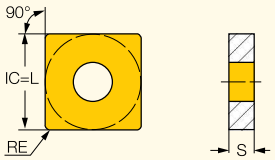
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

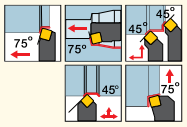
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMA

Double-Sided Square Inserts
Without a Chipformer for
Short Chipping Materials





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC20	IC5010	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMA 120408	12.70	4.76	0.80	●	●	●	●	1.50-5.00	0.05-0.50
SNMA 120412	12.70	4.76	1.20	●	●	●	●	1.50-5.00	0.10-0.50
SNMA 120416	12.70	4.76	1.60		●	●	●	2.00-6.00	0.10-0.60
SNMA 190612	19.05	6.35	1.20	●	●		●	2.00-7.00	0.10-0.60
SNMA 190616	19.05	6.35	1.60		●	●		2.50-10.00	0.10-0.60

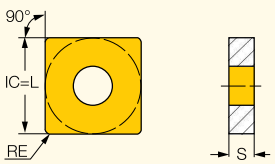
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

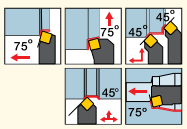
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMG-NR

Double-Sided Square Inserts
with a Special Chipformer
for Heavy Machining





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC8150	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMG 120412-NR	12.70	4.76	1.20			●			●	●			2.00-5.00	0.30-0.70
SNMG 120416-NR	12.70	4.76	1.60		●	●	●						2.50-6.00	0.30-0.70
SNMG 150608-NR	15.88	6.35	0.80			●							2.50-8.00	0.30-0.70
SNMG 150612-NR	15.88	6.35	1.20		●	●							2.50-8.00	0.30-0.70
SNMG 150616-NR	15.88	6.35	1.60			●	●	●		●			2.50-8.00	0.30-0.70
SNMG 190612-NR	19.05	6.35	1.20			●					●	●	3.00-8.00	0.40-0.70
SNMG 190616-NR	19.05	6.35	1.60	●	●	●	●						3.50-10.00	0.40-0.70
SNMG 250724-NR	25.40	7.94	2.40		●								5.00-15.00	0.40-1.00
SNMG 250924-NR	25.40	9.52	2.40	●	●	●							5.00-15.00	0.40-1.00

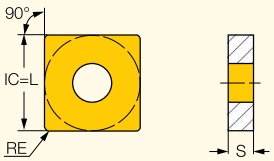
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

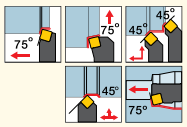
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMM-R3P

Single-Sided Square Inserts for Rough Turning Applications on Steel





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 120408-R3P	12.70	4.76	0.80	●	●	●	0.70-7.50	0.20-0.55
SNMM 120412-R3P	12.70	4.76	1.20	●	●	●	1.00-7.50	0.25-0.70
SNMM 120416-R3P	12.70	4.76	1.60	●	●		2.00-7.50	0.30-0.90
SNMM 150612-R3P	15.88	6.35	1.20	●	●	●	2.00-9.50	0.30-0.70
SNMM 150616-R3P	15.88	6.35	1.60	●	●	●	2.50-9.50	0.30-0.90
SNMM 190612-R3P	19.05	6.35	1.20	●	●	●	3.00-12.00	0.25-0.80
SNMM 190616-R3P	19.05	6.35	1.60	●	●	●	3.50-12.00	0.30-0.90
SNMM 190624-R3P	19.05	6.35	2.40	●	●	●	3.50-12.00	0.30-1.20
SNMM 250924-R3P	25.40	9.52	2.40	●	●	●	4.00-15.00	0.40-1.20

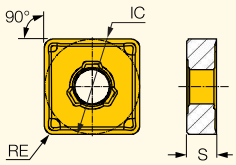
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

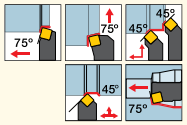
Tools: C#-MULNR/L-MW • DSBNR/L • DSDNN • DSKNR/L • DSSNR/L • HSK A63WH-MULNR-J12MWX2 • HSK A63WH-MULNR/L-MW • HSK A63WH-MUMNN-MW • MULNR/L-12MW • PSBNR/L • PSDNN • PSDNN-JHP • PSKNR/L • PSSNR/L • PSSNR/L-JHP

ISOTURN

SNMM-R4P

Single-Sided Square Inserts for Heavy Turning Applications





Designation	Dimensions IC	S	RE	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 250724-R4P	25.40	9.52	2.40	●	4.00-17.00	0.60-1.30

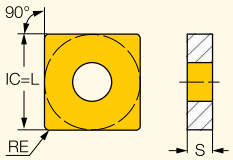
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

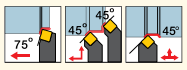
Tools: PSBNR/L • PSDNN • PSSNR/L

ISOTURN

SNMM-H3P

Single-Sided Square Inserts with a Strong Cutting Edge for Extra Rough Turning





Designation	Dimensions IC	RE	S	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 190624-H3P	19.05	2.40	6.35	●	●	4.00-9.00	0.55-1.20
SNMM 250924-H3P	25.40	2.40	9.52	●	●	5.00-12.00	0.55-1.30

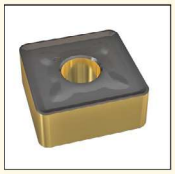
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

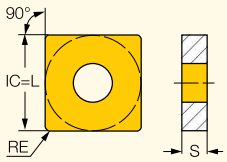
Tools: DSBNR/L • DSDNN • DSSNR/L • PSBNR/L • PSDNN • PSSNR/L

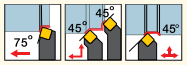
ISOTURN

SNMM-H4P

Single-Sided Square Inserts
with a Strong Cutting Edge
for Extra Rough Turning







Designation	Dimensions IC	RE	S	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 190624-H4P	19.05	2.40	6.35	●	●	4.00-12.00	0.50-1.10
SNMM 250924-H4P	25.40	2.40	9.52	●	●	5.00-15.00	0.55-1.50

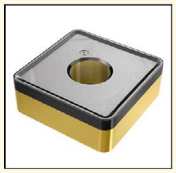
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

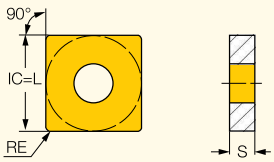
Tools: DSBNR/L • DSDNN • DSSNR/L • PSBNR/L • PSDNN • PSSNR/L

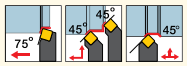
ISOTURN

SNMM-H5P

Single-Sided Square Insert
with a Strong Cutting Edge
for Extra Rough Turning







Designation	Dimensions IC	RE	S	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 250924-H5P	25.40	2.40	9.52	●	●	3.60-16.00	0.60-1.50

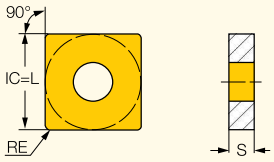
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

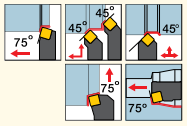
Tools: PSBNR/L • PSDNN • PSSNR/L

ISOTURN

SNMM-NM

Single-Sided Square Inserts
for Roughing Applications





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC830	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 190616-NM	19.05	6.35	1.60	●	●	2.50-10.00	0.30-0.70

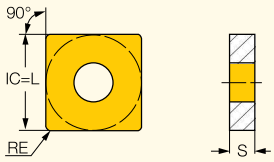
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

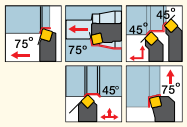
Tools: DSBNR/L • DSDNN • DSSNR/L • PSBNR/L • PSDNN • PSSNR/L

ISOTURN

SNMM-NR

Single-Sided Square Inserts
with a Special Chipformer
for Heavy Machining





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC8350	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SNMM 190616-NR	19.05	6.35	1.60		●		2.50-8.00	0.35-1.00
SNMM 250724-NR	25.40	7.94	2.40	●	●	●	5.00-15.00	0.35-1.00

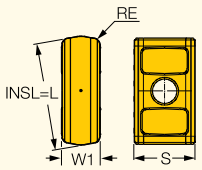
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: DSBNR/L • DSDNN • DSSNR/L • PSBNR/L • PSDNN • PSSNR/L

HEAVY SUPER TURN

LOMX-H6P

Tangential Inserts with 4 Cutting Edges for High Metal Removal of up to 35 mm D.O.C. on Steel



Designation	Dimensions W1	INSL	S	RE	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
LOMX 402224-H6P	14.40	40.30	22.60	2.40	●	●	7.00-35.00	1.00-2.00

- For user guide and cutting speed recommendations, see pages 122-134, 236-254

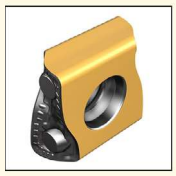
Tools: PLBOR/L

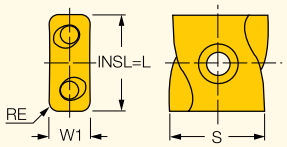
Application Range H6P Chipformer

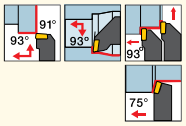
HELITURN TANGENTIAL LINE

LNMX-HT

Tangential Inserts with 4 Cutting Edges and a Positive Rake Angle for High Metal Removal Rates







Designation	Dimensions W1	INSL	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC908	IC8150	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
LNMX 110408L-HT	4.75	11.00	11.40	0.80	●	●	●	●	●	●			●	0.50-5.00	0.15-0.60
LNMX 110408R-HT	4.75	11.00	11.40	0.80	●	●	●	●	●	●		●	●	0.50-5.00	0.15-0.60
LNMX 110412L-HT	4.75	11.00	11.40	1.20			●	●	●	●				0.80-5.00	0.20-0.80
LNMX 110412R-HT	4.75	11.00	11.40	1.20	●		●	●	●	●				0.80-5.00	0.20-0.80
LNMX 150608L-HT	6.40	15.00	13.40	0.80	●		●	●	●	●	●		●	1.00-6.00	0.25-0.60
LNMX 150608R-HT	6.40	15.00	13.40	0.80	●	●	●	●	●	●	●	●	●	1.00-6.00	0.25-0.60
LNMX 150612L-HT	6.40	15.00	13.40	1.20		●	●	●	●	●			●	1.50-7.00	0.30-0.80
LNMX 150612R-HT	6.40	15.00	13.40	1.20	●	●	●	●	●	●	●		●	1.50-7.00	0.30-0.80
LNMX 150616L-HT	6.40	15.00	13.40	1.60	●		●	●	●	●	●			2.00-8.00	0.30-1.00
LNMX 150616R-HT	6.40	15.00	13.40	1.60		●	●	●	●	●			●	2.00-8.00	0.30-1.00
LNMX 221016R/L-HT	9.40	22.00	20.00	1.60		●	●		●					4.00-15.00	0.30-1.00
LNMX 221024R/L-HT	9.40	22.00	20.00	2.40		●	●		●					5.00-15.00	0.30-1.10

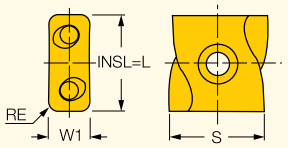
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

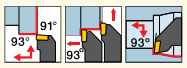
Tools: C#-SLANR/L-TANG • PLANR/L-TANG • S-PLANR-TANG • S-SLANR/L-TANG • SLANR/L-15-TANG-JHP • SLANR/L-TANG • SLBNR/L-TANG • SLFNR/L-TANG

HELITURN TANGENTIAL LINE

LNMX-HM

Tangential Inserts with a Positive Rake Angle for High Metal Removal on Soft and Ductile Materials





Designation	Dimensions INSL	W1	S	RE	Tough ↔ Hard IC8250	IC6015	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
LNMX 110408L-HM	11.00	4.75	11.40	0.80		●		●		1.00-5.00	0.10-0.40
LNMX 110408R-HM	11.00	4.75	11.40	0.80	●	●		●		1.00-5.00	0.10-0.40
LNMX 110412L-HM	11.00	4.75	11.40	1.20	●					1.00-5.00	0.10-0.40
LNMX 110412R-HM	11.00	4.75	11.40	1.20		●				1.00-5.00	0.10-0.40
LNMX 150608L-HM	15.00	6.40	13.40	0.80	●		●		●	1.00-6.00	0.10-0.50
LNMX 150608R-HM	15.00	6.40	13.40	0.80	●		●	●	●	1.00-6.00	0.10-0.50
LNMX 150612R/L-HM	15.00	6.40	13.40	1.20	●		●		●	1.50-7.00	0.15-0.70

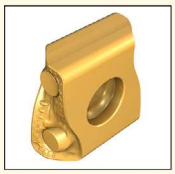
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

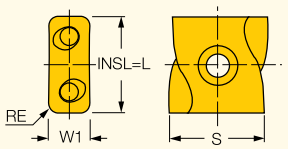
Tools: C#-SLANR/L-TANG • PLANR/L-TANG • S-PLANR-TANG • S-SLANR/L-TANG • SLANR/L-15-TANG-JHP • SLANR/L-TANG • SLFNR/L-TANG

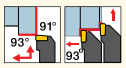
HELITURN TANGENTIAL LINE

LNMX-WG

Tangentially Clamped Inserts with a Wiper Corner Design for High Production Cutting and Excellent Surface Finish







Designation	Dimensions INSL	W1	S	RE	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
LNMX 150612R/L-WG	15.00	6.40	13.40	1.20	●	1.50-7.00	0.30-0.80

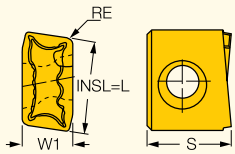
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

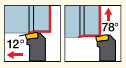
Tools: C#-SLANR/L-TANG • PLANR/L-TANG • S-PLANR-TANG • S-SLANR/L-TANG • SLANR/L-15-TANG-JHP • SLANR/L-TANG • SLFNR/L-TANG

FEEDTURN

LNMX-HF

Tangentially Clamped Rough Turning Inserts for High Feed (up to 2.4 mm/Rev)





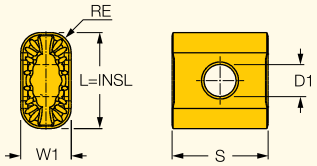
Designation	Dimensions W1	INSL	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
LNMX 1608L-HF	8.50	16.00	14.00	1.20		●	●	0.50-2.40	1.50-2.40
LNMX 1608R-HF	8.50	16.00	14.00	1.20	●	●	●	0.50-2.40	1.50-2.40

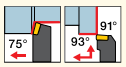
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

ISOTURN

LNMX 19/30

Tangentially Clamped Inserts
for Railroad Wheel Re-Turning





Designation	Dimensions W1	INSL	S	RE	D1	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
LNMX 191940-WF	10.00	19.05	19.05	4.00	6.35	•	•	0.30-5.00	0.25-1.30
LNMX 191940-WM	10.00	19.05	19.05	4.00	6.35	•	•	0.30-5.00	0.40-1.50
LNMX 301940-WM	12.00	30.00	19.05	4.00	6.35	•	•	0.50-12.00	0.70-1.90
LNMX 301940-WR	12.00	30.00	19.05	4.00	6.35	•	•	0.50-12.00	0.80-1.90

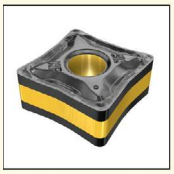
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

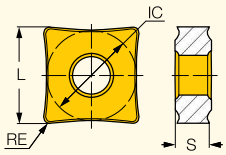
Tools: PRWR/L 175-CA • PRWR/L 177-CA

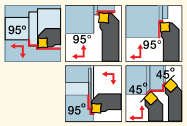
ISOTURN

QNMG-NF

Double-Sided Inserts
with Four 80° Corners for
Finishing Applications







Designation	Dimensions L	IC	S	RE	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
QNMG 120408-NF	13.33	12.70	4.76	0.80	•	0.80-3.00	0.08-0.25

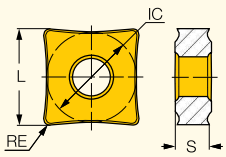
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

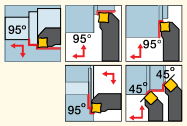
Tools: PQFNR/L • PQLNR/L • PQSNR/L • S-PQFNR/L • S-PQLNR/L

ISOTURN

QNMG-TF

Double-Sided Inserts
with Four 80° Corners for
General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
QNMG 090404-TF	10.32	9.52	4.76	0.40	•	•	•	1.00-4.00	0.12-0.35
QNMG 090408-TF	10.32	9.52	4.76	0.80	•	•	•	1.00-4.00	0.12-0.35
QNMG 120404-TF	13.41	12.70	4.76	0.40	•	•		1.00-4.00	0.12-0.35
QNMG 120408-TF	13.33	12.70	4.76	0.80	•	•	•	1.00-4.00	0.12-0.35
QNMG 120412-TF	13.25	12.70	4.76	1.20			•	1.50-4.50	0.15-0.40

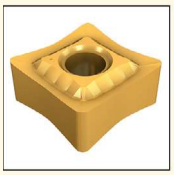
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

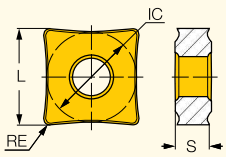
Tools: PQFNR/L • PQLNR/L • PQSNR/L • S-PQFNR/L • S-PQLNR/L

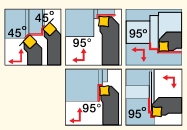
ISOTURN

QNMG-PP

Double-Sided Inserts
with Four 80° Corners for
General Applications







Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
QNMG 090408-PP	10.32	9.52	4.76	0.80	•		1.00-4.00	0.14-0.30
QNMG 120408-PP	13.33	12.70	4.76	0.80	•	•	1.00-4.00	0.14-0.30

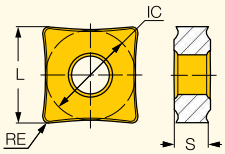
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

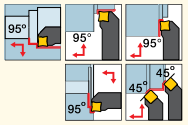
Tools: PQFNR/L • PQLNR/L • PQSNR/L • S-PQFNR/L • S-PQLNR/L

ISOTURN

QNMG-GN

Double-Sided Inserts with Four 80° Corners for General Applications





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC428	Recommended Machining Data a_p (mm)	f (mm/rev)
QNMG 090408-GN	10.32	9.52	4.76	0.80	●		●		1.00-4.50	0.16-0.45
QNMG 120408-GN	13.33	12.70	4.76	0.80	●	●	●	●	1.00-4.50	0.16-0.45
QNMG 120412-GN	13.25	12.70	4.76	1.20	●	●	●	●	1.50-5.00	0.22-0.50

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

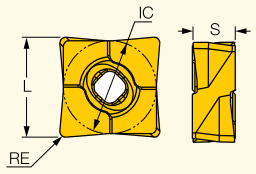
Tools: PQFNR/L • PQLNR/L • PQSNR/L • S-PQFNR/L • S-PQLNR/L

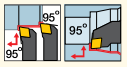
Positive Inserts

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMG-F3P

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Finishing on Alloyed Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMG 090402-F3P	10.40	9.35	4.66	0.20	●	●	0.30-2.00	0.03-0.15
CXMG 090404-F3P	10.40	9.35	4.65	0.40	●		0.40-2.00	0.05-0.25
CXMG 12T504-F3P	13.83	12.50	5.80	0.40	●	●	0.40-2.00	0.05-0.25
CXMG 12T508-F3P	13.75	12.50	5.80	0.80	●	●	0.80-2.00	0.05-0.25

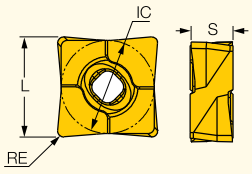
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

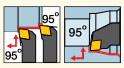
Tools: A-PCLXR/L • AVC-PCLXR/L • PCLXR/L • PCLXR/L-JHP • PCLXR/L-JHP-MC • PCLXR/L-S • PCLXR/L-S-JHP

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMG-M3P

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Medium Machining on Alloyed Steel





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMG 090408-M3P	10.32	9.35	4.65	0.80	●	●	●	0.80-3.00	0.10-0.50
CXMG 12T508-M3P	13.75	12.50	5.80	0.80	●	●	●	0.80-5.00	0.10-0.50
CXMG 12T512-M3P	13.68	12.50	5.80	1.20	●	●	●	1.20-5.00	0.10-0.50

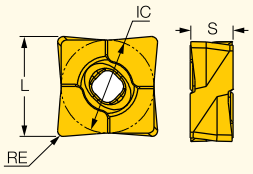
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

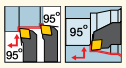
Tools: A-PCLXR/L • AVC-PCLXR/L • PCLXR/L • PCLXR/L-JHP • PCLXR/L-JHP-MC • PCLXR/L-S • PCLXR/L-S-JHP

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMG-F3M

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Finishing on Stainless Steel and H.T.A.





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMG 090402-F3M	10.40	9.35	4.66	0.20		●	●	●	0.30-2.00	0.03-0.15
CXMG 090404-F3M	10.40	9.35	4.65	0.40	●	●	●	●	0.40-2.00	0.05-0.25
CXMG 12T504-F3M	13.83	12.50	5.80	0.40	●		●	●	0.40-2.00	0.05-0.25
CXMG 12T508-F3M	13.75	12.50	5.80	0.80	●		●	●	0.80-2.00	0.05-0.25

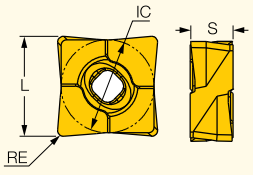
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

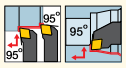
Tools: A-PCLXR/L • AVC-PCLXR/L • PCLXR/L • PCLXR/L-JHP • PCLXR/L-JHP-MC • PCLXR/L-S • PCLXR/L-S-JHP

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMG-M3M

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Medium Machining on Stainless Steel and H.T.A.





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC6025	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CXMG 090408-M3M	10.32	9.35	4.65	0.80	●	●	●	0.80-3.00	0.15-0.50
CXMG 12T508-M3M	13.75	12.50	5.80	0.80	●	●	●	0.80-5.00	0.15-0.50
CXMG 12T512-M3M	13.68	12.50	5.80	1.20	●	●	●	1.20-5.00	0.15-0.50

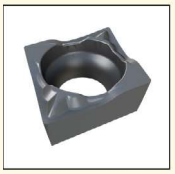
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

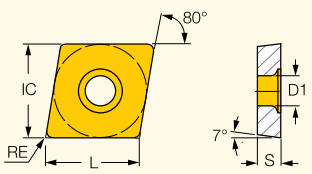
Tools: A-PCLXR/L • AVC-PCLXR/L • PCLXR/L • PCLXR/L-JHP • PCLXR/L-JHP-MC • PCLXR/L-S • PCLXR/L-S-JHP

ISOTURN

CCGT-F1P

80° Rhombic Inserts with a Positive Flank for Very Low Finish Turning Conditions on Steel



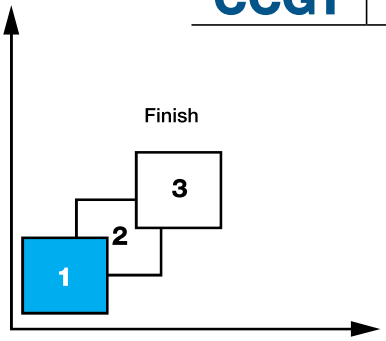


Designation	Dimensions L	IC	S	RE	D1	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 03X101-F1P	3.60	3.57	1.39	0.10	1.90	●	0.10-0.50	0.01-0.05
CCGT 03X102-F1P	3.60	3.57	1.39	0.20	1.90	●	0.10-0.50	0.02-0.10
CCGT 03X104-F1P	3.60	3.57	1.39	0.40	1.90	●	0.10-0.50	0.05-0.15
CCGT 04T101-F1P	4.40	4.37	1.79	0.10	2.30	●	0.10-0.50	0.01-0.05
CCGT 04T102-F1P	4.40	4.37	1.79	0.20	2.30	●	0.10-0.50	0.02-0.10
CCGT 04T104-F1P	4.40	4.37	1.79	0.40	2.30	●	0.10-0.50	0.05-0.15

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L • PICIN-SCLCR/L

ISO Standard Designation				-	1	2	3
CCGT	04	T1	04	-	F	1	P



1. Application	
F	Finishing

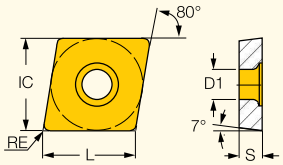
2. Chip Load	
1	For super finish
2	For low range
3	For general range

3. Workpiece Material Group	
P	Steel
M	Stainless Steel
K	Cast Iron
N	Nonferrous & Aluminum
S	High Temperature Alloys

ISOTURN

CCGT-F1M-20P

80° Rhombic Inserts with a Positive Flank for Very Low Finish Turning Conditions on Steel



Designation	Dimensions L	IC	S	RE	D1	IC1008	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 0602005-F1M-20P	6.45	6.35	2.38	0.05	2.80	●	0.04-4.00	0.03-0.15
CCGT 060201-F1M-20P	6.45	6.35	2.38	0.10	2.80	●	0.07-4.00	0.03-0.15
CCGT 060202-F1M-20P	6.45	6.35	2.38	0.20	2.80	●	0.15-4.00	0.03-0.15
CCGT 060204-F1M-20P	6.45	6.35	2.38	0.40	2.80	●	0.30-4.00	0.03-0.15
CCGT 09T3005-F1M-20P	9.67	9.53	3.97	0.05	4.40	●	0.04-4.00	0.03-0.15
CCGT 09T301-F1M-20P	9.67	9.53	3.97	0.10	4.40	●	0.07-4.00	0.03-0.15
CCGT 09T302-F1M-20P	9.67	9.53	3.97	0.20	4.40	●	0.15-4.00	0.03-0.15
CCGT 09T304-F1M-20P	9.67	9.53	3.97	0.40	4.40	●	0.30-4.00	0.03-0.15

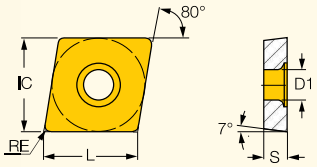
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L

ISOTURN

CCMT-F3P

80° Rhombic Positive Flank Inserts for Semi-Finishing and Finishing Turning of Steel



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060202-F3P	6.30	6.35	2.38	0.20	2.80	●	●	●	0.06-1.70	0.03-0.12
CCMT 060204-F3P	6.30	6.35	2.38	0.40	2.80	●	●	●	0.10-1.70	0.05-0.18
CCMT 09T302-F3P	9.70	9.52	3.97	0.20	4.40	●	●	●	0.08-2.00	0.04-0.16
CCMT 09T304-F3P	9.70	9.52	3.97	0.40	4.40	●	●	●	0.11-2.00	0.06-0.25
CCMT 09T308-F3P	9.70	9.52	3.97	0.80	4.40	●	●	●	0.15-2.00	0.08-0.32
CCMT 120404-F3P	12.90	12.70	4.76	0.40	5.50	●	●	●	0.11-2.00	0.06-0.25

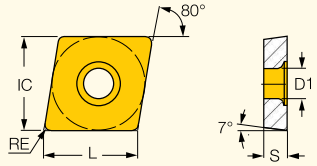
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-JHP-MC • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L

ISOTURN

CCMT-M3P

80° Rhombic Positive Flank Inserts for Medium Machining Conditions on Steel



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060204-M3P	6.30	6.35	2.38	0.40	2.80	●	●	●	0.50-2.00	0.10-0.25
CCMT 060208-M3P	6.30	6.35	2.38	0.80	2.80	●	●	●	1.00-4.00	0.10-0.30
CCMT 09T304-M3P	9.70	9.52	3.97	0.40	4.40	●	●	●	0.50-3.00	0.10-0.20
CCMT 09T308-M3P	9.70	9.52	3.97	0.80	4.40	●	●	●	1.00-4.00	0.10-0.30
CCMT 09T312-M3P	9.70	9.52	3.97	1.20	4.40	●	●	●	1.30-5.00	0.15-0.40
CCMT 120404-M3P	12.90	12.70	4.76	0.40	5.50	●	●	●	0.50-3.00	0.10-0.20
CCMT 120408-M3P	12.90	12.70	4.76	0.80	5.50	●	●	●	1.00-4.00	0.15-0.40
CCMT 120412-M3P	12.90	12.70	4.76	1.20	5.50	●	●	●	1.30-5.00	0.15-0.40

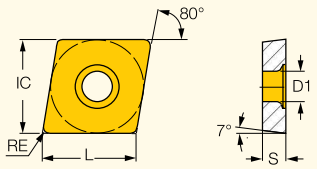
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCMT-F3M

80° Rhombic Positive Flank Inserts for Stainless Steel Finishing Applications



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060202-F3M	6.30	6.35	2.38	0.20	2.80	●	●	●	●	0.06-1.70	0.03-0.12
CCMT 060204-F3M	6.30	6.35	2.38	0.40	2.80	●	●	●	●	0.10-1.70	0.05-0.18
CCMT 060208-F3M	6.30	6.35	2.38	0.80	2.80	●	●	●	●	0.12-1.70	0.08-0.22
CCMT 09T302-F3M	9.70	9.52	3.97	0.20	4.40	●	●	●	●	0.08-2.00	0.04-0.16
CCMT 09T304-F3M	9.70	9.52	3.97	0.40	4.40	●	●	●	●	0.11-2.00	0.06-0.25
CCMT 09T308-F3M	9.70	9.52	3.97	0.80	4.40	●	●	●	●	0.15-2.00	0.08-0.32
CCMT 120402-F3M	12.90	12.70	4.76	0.20	5.50	●	●	●	●	0.11-2.00	0.06-0.18
CCMT 120404-F3M	12.90	12.70	4.76	0.40	5.50	●	●	●	●	0.15-2.00	0.08-0.25
CCMT 120408-F3M	12.90	12.70	4.76	0.80	5.50	●	●	●	●	0.18-2.00	0.10-0.32

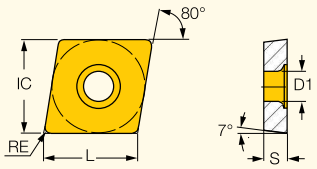
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCMT-M3M

80° Rhombic Positive Flank Inserts for Machining Stainless and Low Carbon Steel



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060204-M3M	6.30	6.35	2.38	0.40	2.80	●	●	●	0.40-2.50	0.07-0.23
CCMT 060208-M3M	6.30	6.35	2.38	0.80	2.80	●	●	●	0.80-2.50	0.10-0.25
CCMT 09T304-M3M	9.70	9.52	3.97	0.40	4.40	●	●	●	0.40-3.00	0.07-0.25
CCMT 09T308-M3M	9.70	9.52	3.97	0.80	4.40	●	●	●	0.80-3.00	0.10-0.30
CCMT 120404-M3M	12.90	12.70	4.76	0.40	5.50	●	●	●	0.40-3.50	0.10-0.30
CCMT 120408-M3M	12.90	12.70	4.76	0.80	5.50	●	●	●	0.80-3.50	0.12-0.34
CCMT 120412-M3M	12.90	12.70	4.76	1.20	5.50	●	●	●	1.20-3.50	0.14-0.40

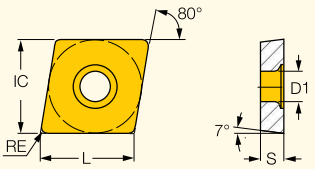
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

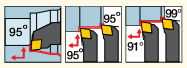
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCMT-CERMET

Single-Sided 80° Rhombic Cermet Grade Inserts for Semi-Finishing and Finishing Applications

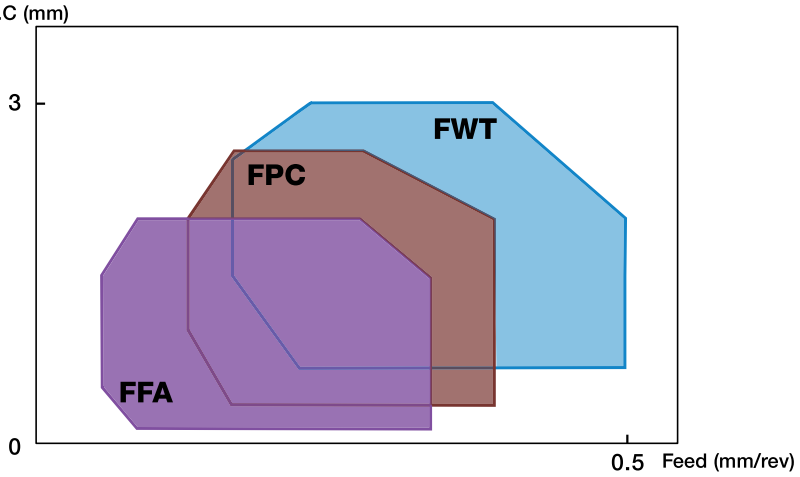




Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 09T302-FFA	9.70	9.52	3.97	0.20	4.40	•	•	0.03-2.00	0.04-0.15
CCMT 09T302-FWT	9.70	9.52	3.97	0.20	4.40	•		1.50-3.00	0.00-0.50
CCMT 09T304-FPC	9.70	9.52	3.97	0.40	4.40	•	•	0.50-2.50	0.03-0.20
CCMT 09T308-FPC	9.70	9.52	3.97	0.80	4.40		•	0.50-2.80	0.03-0.22

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

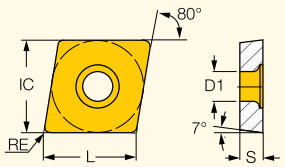
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-JHP-MC • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L

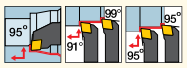


ISOTURN

CCMT/CCGT-SM

Single-Sided Turning Inserts for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC8250	IC6015	IC8150	IC20	IC5010	IC428	IC5005	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 060201-SM	6.45	6.35	2.38	0.10	2.80											•	0.25-2.00	0.05-0.20
CCGT 060202-SM	6.45	6.35	2.38	0.20	2.80											•	0.25-2.00	0.05-0.25
CCMT 060202-SM	6.45	6.35	2.38	0.20	2.80		•		•					•			0.25-2.00	0.05-0.25
CCMT 060204-SM	6.45	6.35	2.38	0.40	2.80	•	•	•	•					•	•	•	0.50-2.50	0.07-0.25
CCMT 060208-SM	6.45	6.35	2.38	0.80	2.80	•		•							•	•	0.50-2.50	0.07-0.25
CCMT 09T302-SM	9.70	9.52	3.97	0.20	4.40	•	•	•						•	•	•	0.50-2.50	0.06-0.25
CCMT 09T304-SM	9.70	9.52	3.97	0.40	4.40	•	•		•	•	•	•	•	•	•	•	0.50-2.50	0.06-0.25
CCMT 09T308-SM	9.70	9.52	3.97	0.80	4.40	•	•	•	•		•		•	•	•	•	0.50-3.00	0.07-0.25
CCMT 120404-SM	12.90	12.70	4.76	0.40	5.50		•		•					•	•	•	0.70-3.50	0.07-0.25
CCMT 120408-SM	12.90	12.70	4.76	0.80	5.50	•	•	•	•						•	•	0.70-3.50	0.07-0.30

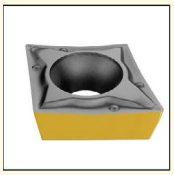
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

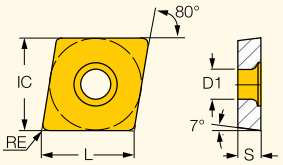
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCMT-PF

80° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC6015	IC806	IC807	IC907	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060202-PF	6.30	6.35	2.38	0.20	2.80	●	●	●		●	●	●	0.20-2.50	0.04-0.25
CCMT 060204-PF	6.30	6.35	2.38	0.40	2.80	●	●	●	●	●	●		0.40-2.50	0.04-0.30
CCMT 09T302-PF	9.70	9.52	3.97	0.20	4.40	●			●	●	●	●	0.50-3.00	0.05-0.30
CCMT 09T304-PF	9.70	9.52	3.97	0.40	4.40	●	●	●	●	●	●	●	0.50-3.50	0.05-0.35

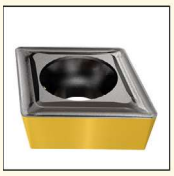
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

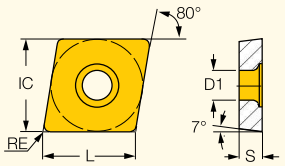
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

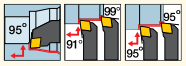
ISOTURN

CCMT-14

80° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC20	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060204-14	6.30	6.35	2.38	0.40	2.80	●		●	●	●	●	●	0.50-2.50	0.14-0.25
CCMT 09T304-14	9.70	9.52	3.97	0.40	4.40		●				●	●	0.50-3.00	0.14-0.25
CCMT 09T308-14	9.70	9.52	3.97	0.80	4.40	●	●	●	●	●			0.80-3.00	0.14-0.30
CCMT 120408-14	12.90	12.70	4.76	0.80	5.50	●		●					0.80-3.00	0.14-0.30

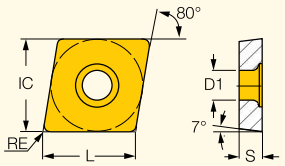
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

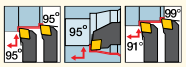
Tools: A/E/S-SCLCR/L • AVC-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-JHP-MC • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L

ISOTURN

CCMT/CCGT

80° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8250	IC30N	IC20	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 060202	6.45	6.35	2.38	0.20	2.80		●				0.50-2.00	0.10-0.20
CCGT 060202L (1)	6.45	6.35	2.38	0.20	2.80		●	●			0.50-2.00	0.10-0.20
CCGT 060204	6.45	6.35	2.38	0.40	2.80		●				0.50-2.00	0.10-0.20
CCGT 060204L (1)	6.45	6.35	2.38	0.40	2.80		●				0.50-2.00	0.10-0.20
CCMT 060202	6.45	6.35	2.38	0.20	2.80	●			●		0.50-2.00	0.10-0.20
CCMT 060204	6.45	6.35	2.38	0.40	2.80		●		●	●	0.50-2.00	0.12-0.22
CCMT 09T302	9.70	9.52	3.97	0.20	4.40				●	●	0.50-2.50	0.12-0.25
CCMT 09T304	9.70	9.52	3.97	0.40	4.40				●	●	0.50-2.50	0.12-0.25
CCMT 09T308	9.70	9.52	3.97	0.80	4.40				●	●	0.80-3.00	0.14-0.25

• Use left-hand inserts for left-hand external tools and for right-hand internal tools • For user guide and cutting speed recommendations, see pages 122-134, 236-254

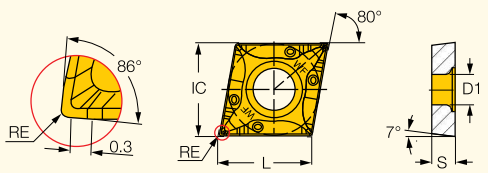
(1) Left-hand insert

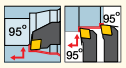
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCET-WF

80° Rhombic Inserts with a 7° Positive Flank and a Wiper Near the Corner for High Feed Finishing





Designation	Dimensions L	IC	S	RE	D1	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CCET 0602005-WF	6.30	6.35	2.38	0.05	2.80	●	0.05-2.00	0.01-0.20
CCET 09T3005-WF	9.50	9.52	3.97	0.05	4.40	●	0.05-2.00	0.01-0.20

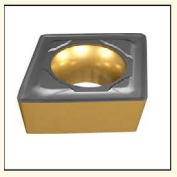
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

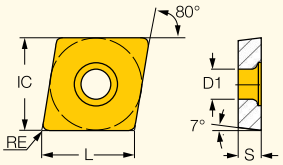
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

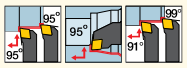
ISOTURN

CCMT-WG

80° Rhombic Inserts with a 7° Positive Flank and a Wiper Near the Corner for High Feed Finishing







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8250	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CCMT 060204-WG	6.30	6.35	2.38	0.40	2.80		●	●	0.40-2.00	0.10-0.35
CCMT 09T304-WG	9.70	9.52	3.97	0.40	4.40	●			0.40-2.00	0.14-0.30
CCMT 09T308-WG	9.70	9.52	3.97	0.80	4.40	●			0.50-2.50	0.20-0.38
CCMT 120408-WG	12.90	12.70	4.76	0.80	5.50	●			0.50-3.00	0.20-0.36

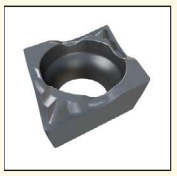
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

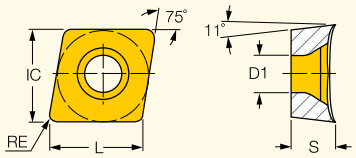
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

EPGT-F1P

75° Rhombic Inserts with a Positive Flank for Very Low Finish Turning Conditions on Steel





Designation	Dimensions L	IC	S	RE	D1	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
EPGT 03X101-F1P	3.70	3.57	1.39	0.10	1.90	●	0.10-0.50	0.01-0.05
EPGT 03X102-F1P	3.70	3.57	1.39	0.20	1.90	●	0.10-0.50	0.02-0.10
EPGT 03X104-F1P	3.70	3.57	1.39	0.40	1.90	●	0.10-0.50	0.05-0.15

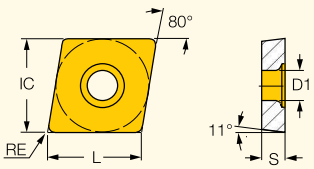
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E-SEXPR/L-03

ISOTURN

CPGT-SM

80° Rhombic Inserts with an 11° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys



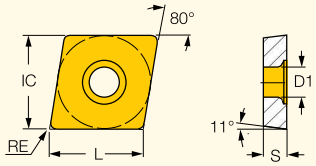
Designation	Dimensions L	IC	S	RE	D1	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CPGT 060201-SM	6.45	6.35	2.38	0.10	2.80	●	0.25-2.00	0.05-0.20
CPGT 060202-SM	6.45	6.35	2.38	0.20	2.80	●	0.25-2.00	0.05-0.30
CPGT 060204-SM	6.45	6.35	2.38	0.40	2.80	●	0.50-3.00	0.10-0.35
CPGT 09T301-SM	9.67	9.52	3.97	0.10	4.40	●	0.25-2.00	0.05-0.25
CPGT 09T302-SM	9.67	9.52	3.97	0.20	4.40	●	0.50-2.50	0.10-0.30
CPGT 09T304-SM	9.67	9.52	3.97	0.40	4.40	●	0.60-3.50	0.10-0.35

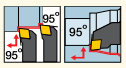
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

ISOTURN

CPMT-PF

80° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys





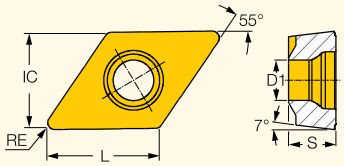
Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC6015	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
CPMT 060204-PF	6.30	6.35	2.38	0.40	2.80	●	●	●	●	●	0.50-2.50	0.04-0.30
CPMT 060208-PF	6.30	6.35	2.38	0.80	2.80	●			●	●	0.50-2.50	0.08-0.30
CPMT 09T304-PF	9.50	9.52	3.97	0.40	4.40	●			●	●	0.50-3.00	0.05-0.35
CPMT 09T308-PF	9.50	9.52	3.97	0.80	4.40	●	●	●	●	●	0.50-3.50	0.10-0.35

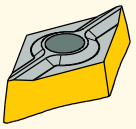
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

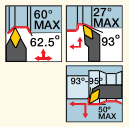
T-LOCK

DCMT-F3P-SL

55° Rhombic Inserts with a Positive Flank with a Locating Bottom Ridge for Semi-Finishing and Finishing on Steel







Bottom view

Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 13T504-F3P-SL	13.40	11.00	5.11	0.40	4.50	●	●	0.50-3.00	0.05-0.25
DCMT 13T508-F3P-SL	13.40	11.00	5.11	0.80	4.50	●	●	0.90-3.50	0.10-0.25

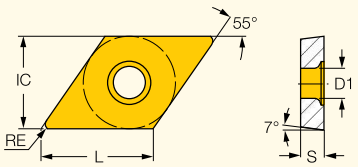
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

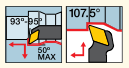
Tools: A-SDUCR/L-13-SL • AVC-SDJCN-Y • C#-SDJCN-13-Y • C#-SDJCR/L-13-SL-JHP • C#-SDNCN-13-SL-JHP • HSK A63WH-SDJCN-13-Y • SDACR/L-13S-SL-JHP • SDJCR/L-13-SL • SDNCN-13-SL

ISOTURN

DCMT-F3P

55° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finish Turning on Steel





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 070202-F3P	7.70	6.35	2.38	0.20	2.80	●	●	●	●	0.06-1.50	0.03-0.12
DCMT 070204-F3P	7.70	6.35	2.38	0.40	2.80	●	●	●	●	0.08-1.50	0.05-0.18
DCMT 11T302-F3P	11.60	9.52	3.97	0.20	4.40	●	●	●	●	0.08-2.00	0.04-0.16
DCMT 11T304-F3P	11.60	9.52	3.97	0.40	4.40	●	●	●	●	0.11-2.00	0.06-0.25
DCMT 11T308-F3P	11.60	9.52	3.97	0.80	4.40	●	●	●	●	0.15-2.00	0.08-0.32

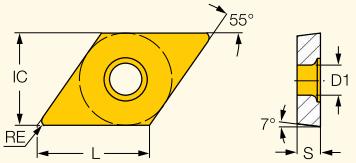
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

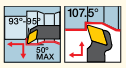
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-JHP-MC • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP

ISOTURN

DCMT-M3M

55° Rhombic Positive Flank Inserts for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 070204-M3M	7.70	6.35	2.38	0.40	2.80	●	●		●		0.40-2.50	0.07-0.23
DCMT 070208-M3M	7.70	6.35	2.38	0.80	2.80	●	●		●		0.80-2.50	0.10-0.25
DCMT 11T304-M3M	11.60	9.52	3.97	0.40	4.40	●	●		●		0.40-3.00	0.07-0.25
DCMT 11T308-M3M	11.60	9.52	3.97	0.40	4.40	●	●	●	●	●	0.80-3.00	0.10-0.30

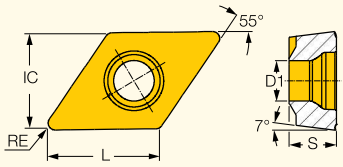
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

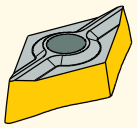
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

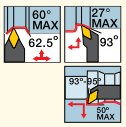
T-LOCK

DCMT-M3M-SL

55° Rhombic Inserts with a Positive Flank and Locating Bottom Ridge for Machining Stainless and Low Carbon Steel







Bottom view

Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 13T508-M3M-SL	13.40	11.00	5.11	0.80	4.50	●	●	0.90-3.50	0.10-0.25
DCMT 13T512-M3M-SL	13.40	11.00	5.11	1.20	4.50	●	●	0.90-3.50	0.15-0.30

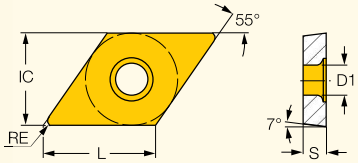
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

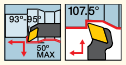
Tools: A-SDUCR/L-13-SL • AVC-SDJCN-Y • C#-SDJCN-13-Y • C#-SDJCR/L-13-SL-JHP • C#-SDNCN-13-SL-JHP • HSK A63WH-SDJCN-13-Y • SDACR/L-13S-SL-JHP • SDJCR/L-13-SL • SDNCN-13-SL

ISOTURN

DCMT-CERMET

Single-Sided 55° Rhombic Cermet Grade Inserts for Semi-Finishing and Finishing Applications



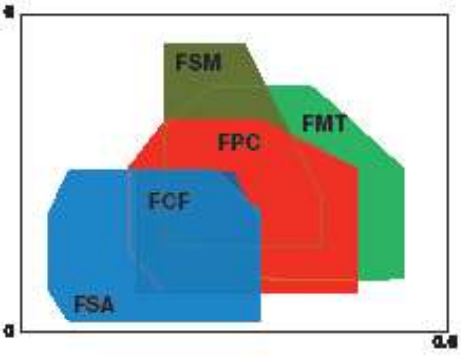


Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 11T302-FSA	11.60	9.52	3.97	0.20	4.40	●		0.30-2.00	0.02-0.15
DCGT 11T304-FSA	11.60	9.52	3.97	0.40	4.40	●		0.40-2.00	0.03-0.15
DCMT 11T302-FCF	11.60	9.52	3.97	0.20	4.40	●	●	0.50-2.50	0.07-0.22
DCMT 11T302-FSM	11.60	9.52	3.97	0.20	4.40		●	0.50-3.00	0.05-0.22
DCMT 11T304-FPC	11.60	9.52	3.97	0.40	4.40	●	●	0.50-2.70	0.04-0.25
DCMT 11T304-FSM	11.60	9.52	3.97	0.40	4.40		●	0.50-3.00	0.07-0.25
DCMT 11T308-FPC	11.60	9.52	3.97	0.80	4.40	●	●	0.50-2.70	0.04-0.25
DCMT 11T312-FMT	11.60	9.52	3.97	1.20	4.40		●	1.50-5.00	0.15-0.50

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-JHP-MC • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP

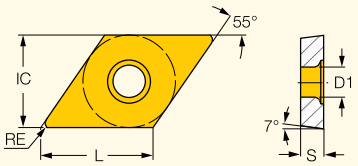
D.O.C (mm)

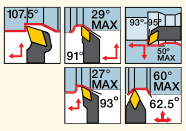


ISOTURN

DCGT-F1M-20P

55° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	IC1008	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 0702005-F1M-20P	7.75	6.35	2.38	0.05	2.80	●	0.03-0.15	0.04-4.00
DCGT 070201-F1M-20P	7.75	6.35	2.38	0.10	2.80	●	0.03-0.15	0.07-4.00
DCGT 070202-F1M-20P	7.75	6.35	2.38	0.20	2.80	●	0.03-0.15	0.15-4.00
DCGT 070204-F1M-20P	7.75	6.35	2.38	0.40	2.80	●	0.03-0.15	0.30-4.00
DCGT 11T3005-F1M-20P	11.63	9.53	3.97	0.05	4.40	●	0.03-0.15	0.04-4.00
DCGT 11T301-F1M-20P	11.63	9.53	3.97	0.10	4.40	●	0.03-0.15	0.07-4.00
DCGT 11T302-F1M-20P	11.63	9.53	3.97	0.20	4.40	●	0.03-0.15	0.15-4.00
DCGT 11T304-F1M-20P	11.63	9.53	3.97	0.40	4.40	●	0.03-0.15	0.30-4.00

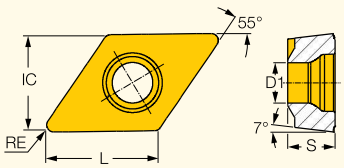
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

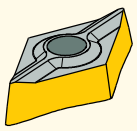
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • E-SDUCR/L-HEAD • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN

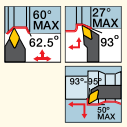
T-LOCK

DCMT-PF-SL

55° Rhombic Inserts with a Positive Flank and Locating Bottom Ridge for Finish Turning on Soft Materials & Exotic Alloys







Designation	Dimensions L	IC	S	RE	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 13T504-PF-SL	13.40	11.00	5.11	0.40	4.50	●	0.50-3.00	0.05-0.25
DCMT 13T508-PF-SL	13.40	11.00	5.11	0.80	4.50	●	0.70-3.00	0.05-0.25

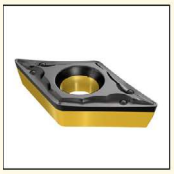
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

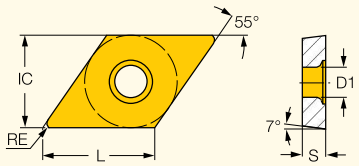
Tools: A-SDUCR/L-13-SL • AVC-SDJCN-Y • C#-SDJCN-13-Y • C#-SDJCR/L-13-SL-JHP • C#-SDNCN-13-SL-JHP • HSK A63WH-SDJCN-13-Y • SDACR/L-13S-SL-JHP • SDJCR/L-13-SL • SDNCN-13-SL

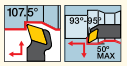
ISOTURN

DCMT/DCGT-PF

55° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC8250	IC908	IC6015	IC806	IC807	IC907	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 070201-PF	7.70	6.35	2.38	0.10	2.80				●						0.30-3.00	0.02-0.25
DCGT 070202-PF	7.70	6.35	2.38	0.20	2.80				●						0.40-3.00	0.03-0.25
DCGT 070204-PF	7.70	6.35	2.38	0.40	2.80				●						0.50-3.00	0.05-0.25
DCMT 070201-PF	7.70	6.35	2.38	0.10	2.80							●	●		0.30-3.00	0.02-0.25
DCMT 070202-PF	7.70	6.35	2.38	0.20	2.80	●									0.40-3.00	0.03-0.25
DCMT 070204-PF	7.70	6.35	2.38	0.40	2.80	●									0.50-3.00	0.05-0.25
DCMT 070208-PF	7.70	6.35	2.38	0.80	2.80							●	●		0.70-3.00	0.08-0.25
DCGT 11T301-PF	11.60	9.52	3.97	0.10	4.40				●						0.30-3.00	0.03-0.25
DCGT 11T302-PF	11.60	9.52	3.97	0.20	4.40				●						0.40-3.00	0.04-0.25
DCGT 11T304-PF	11.60	9.52	3.97	0.40	4.40				●						0.50-3.00	0.05-0.25
DCGT 11T308-PF	11.60	9.52	3.97	0.80	4.40				●						0.70-3.00	0.10-0.25
DCMT 11T302-PF	11.60	9.52	3.97	0.20	4.40	●					●	●	●	●	0.30-3.00	0.04-0.25
DCMT 11T304-PF	11.60	9.52	3.97	0.40	4.40	●	●	●		●	●	●	●	●	0.50-3.00	0.05-0.25
DCMT 11T308-PF	11.60	9.52	3.97	0.80	4.40	●	●	●		●	●	●	●	●	0.70-3.00	0.10-0.25

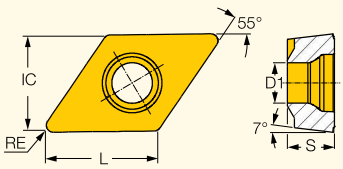
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

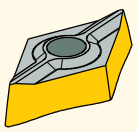
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

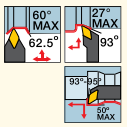
T-LOCK

DCMT-SM-SL

55° Rhombic Inserts with a Positive Flank and Locating Bottom Ridge for Finish Turning on Soft Materials & Exotic Alloys







Designation	Dimensions L	IC	S	RE	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 13T504-SM-SL	13.40	11.00	5.11	0.40	4.50	●	0.50-2.50	0.07-0.27
DCMT 13T508-SM-SL	13.40	11.00	5.11	0.80	4.50	●	1.00-3.00	0.07-0.27

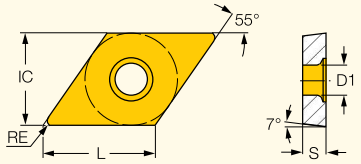
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

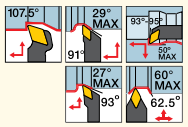
Tools: A-SDUCR/L-13-SL • AVC-SDJCN-Y • C#-SDJCN-13-Y • C#-SDJCR/L-13-SL-JHP • C#-SDNCN-13-SL-JHP • HSK A63WH-SDJCN-13-Y • SDACR/L-13S-SL-JHP • SDJCR/L-13-SL • SDNCN-13-SL

ISOTURN

DCMT/DCGT-SM

55° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC8350	IC6025	IC8250	IC530N	IC6015	IC8150	IC520N	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 070202-SM	7.70	6.35	2.38	0.20	2.80		●			●				●	●	0.50-2.00	0.04-0.20
DCMT 070204-SM	7.70	6.35	2.38	0.40	2.80		●	●		●	●		●	●	●	0.50-2.50	0.05-0.25
DCMT 070208-SM	7.70	6.35	2.38	0.80	2.80			●								0.50-3.00	0.07-0.25
DCGT 11T302-SM	11.60	9.52	3.97	0.20	4.40										●	0.50-2.50	0.05-0.25
DCGT 11T304-SM	11.60	9.52	3.97	0.40	4.40										●	0.50-2.50	0.05-0.25
DCMT 11T302-SM	11.60	9.52	3.97	0.20	4.40		●	●	●	●				●	●	0.50-2.50	0.05-0.25
DCMT 11T304-SM	11.60	9.52	3.97	0.40	4.40	●	●	●	●		●		●	●	●	0.50-2.50	0.07-0.25
DCMT 11T308-SM	11.60	9.52	3.97	0.80	4.40	●	●	●		●	●			●	●	1.00-3.00	0.07-0.25
DCMT 11T312-SM	11.60	9.52	3.97	1.20	4.40							●				1.00-3.50	0.10-0.28

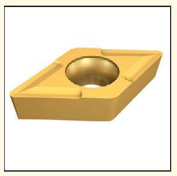
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

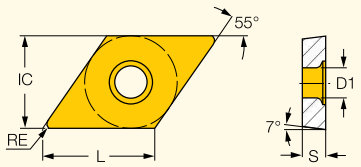
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-JHP-MC • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP

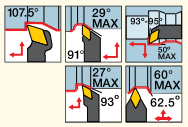
ISOTURN

DCMT/DCGT

55° Rhombic Inserts with a 7° Positive Clearance for Finishing Applications







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC908	IC30N	IC530N	IC8150	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 070201R [1]	7.70	6.35	2.38	0.10	2.80			●						0.25-1.50	0.05-0.15
DCGT 070202	7.70	6.35	2.38	0.20	2.80				●					0.50-2.00	0.08-0.20
DCGT 070204	7.70	6.35	2.38	0.40	2.80				●					0.80-2.50	0.10-0.25
DCMT 070202	7.70	6.35	2.38	0.20	2.80	●	●				●	●	●	0.50-2.00	0.08-0.20
DCMT 070204	7.70	6.35	2.38	0.40	2.80	●	●		●		●	●	●	0.50-2.00	0.08-0.22
DCGT 11T302	11.60	9.52	3.97	0.20	4.40				●					0.50-2.00	0.08-0.20
DCGT 11T304	11.60	9.52	3.97	0.40	4.40				●			●		1.00-2.50	0.12-0.25
DCMT 11T302	11.60	9.52	3.97	0.20	4.40				●	●		●	●	0.50-2.00	0.08-0.20
DCMT 11T304	11.60	9.52	3.97	0.40	4.40				●			●	●	0.50-2.00	0.12-0.25
DCMT 11T308	11.60	9.52	3.97	0.80	4.40	●						●	●	1.50-3.00	0.14-0.29

- Right-hand inserts for right-hand external tools and for left-hand internal tools • For user guide and cutting speed recommendations, see pages 122-134, 236-254

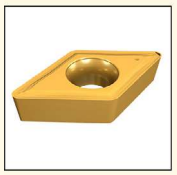
[1] Right-hand insert

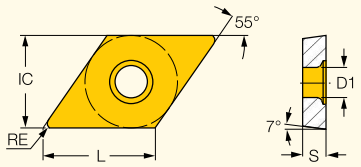
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

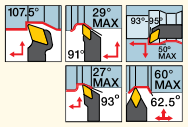
ISOTURN

DCMT-14

55° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8150	IC20	IC428	IC5005	Recommended Machining Data a_p (mm)	f (mm/rev)
DCMT 11T304-14	11.60	9.52	3.97	0.40	4.40	●	●	●			1.00-2.50	0.14-0.25
DCMT 11T308-14	11.60	9.52	3.97	0.80	4.40		●	●	●	●	1.50-3.00	0.14-0.29

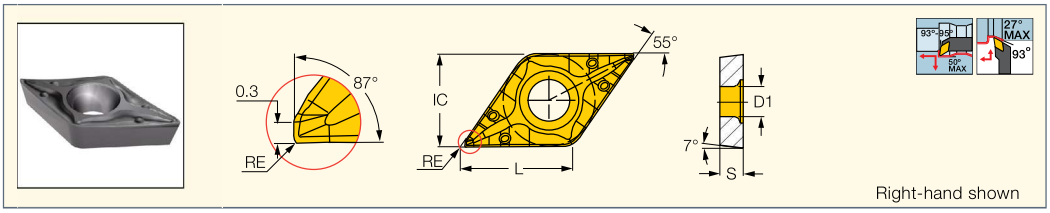
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

ISOTURN

DCET-WF

55° Rhombic Wiper Inserts for Finishing Operations at High Feeds



Right-hand shown

Designation	Dimensions L	IC	S	RE	D1	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DCET 0702005R/L-WF	7.70	6.35	2.38	0.05	2.80	●	0.05-3.00	0.01-0.20
DCET 11T3005R/L-WF	11.60	9.52	3.97	0.05	4.40	●	0.05-3.00	0.01-0.20

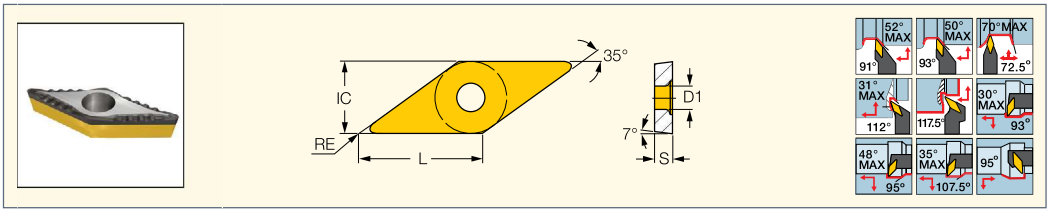
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

ISOTURN

VCMT-F3P

35° Rhombic Positive Flank Inserts for Semi-Finishing and Finish Turning of Steel



Designation	Dimensions L	IC	S	RE	D1	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 110302-F3P	11.10	6.35	3.18	0.20	2.80	●	●	0.06-1.70	0.03-0.14
VCMT 110304-F3P	11.10	6.35	3.18	0.40	2.80	●	●	0.10-1.70	0.05-0.20
VCMT 110308-F3P	11.10	6.35	3.18	0.80	2.80	●	●	0.13-1.70	0.07-0.28
VCMT 110312-F3P	11.10	6.35	3.18	1.20	2.80	●	●	0.13-1.70	0.08-0.33
VCMT 160402-F3P	16.60	9.52	4.76	0.20	4.40	●	●	0.07-1.80	0.04-0.15
VCMT 160404-F3P	16.60	9.52	4.76	0.40	4.40	●	●	0.10-1.80	0.05-0.20
VCMT 160408-F3P	16.60	9.52	4.76	0.80	4.40	●	●	0.14-1.80	0.07-0.29
VCMT 160412-F3P	16.60	9.52	4.76	1.20	4.40	●	●	0.14-1.80	0.09-0.34

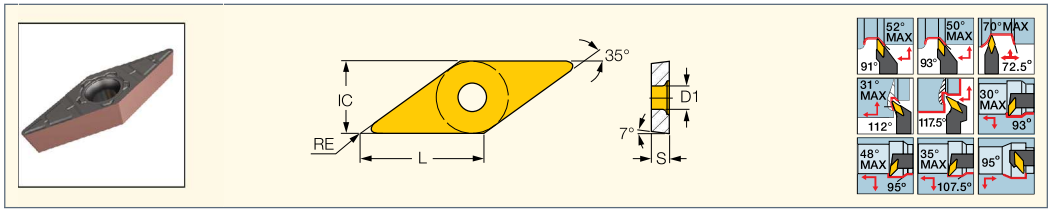
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L-VH • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-JHP-MC • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • SVJCR/L-16-JHP • SVPCR/L • SVVCN • SVXCR/L • Y-SVJCR • Y-SVJCR-JHP • AVC-SVLCR/L

ISOTURN

VCMT-F3M

35° Rhombic Positive Flank Inserts for Stainless Steel Finishing Applications



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 110302-F3M	11.10	6.35	3.18	0.20	2.85	●	●	●	●	0.06-1.70	0.03-0.14
VCMT 110304-F3M	11.10	6.35	3.18	0.40	2.85	●	●	●	●	0.10-1.70	0.05-0.20
VCMT 110308-F3M	11.10	6.35	3.18	0.80	2.85	●	●	●	●	0.13-1.70	0.07-0.28
VCMT 160402-F3M	16.60	9.52	4.76	0.20	4.50	●	●	●	●	0.06-1.80	0.03-0.14
VCMT 160404-F3M	16.60	9.52	4.76	0.40	4.50	●	●	●	●	0.10-1.80	0.05-0.20
VCMT 160408-F3M	16.60	9.52	4.76	0.80	4.50	●	●	●	●	0.13-1.80	0.07-0.28

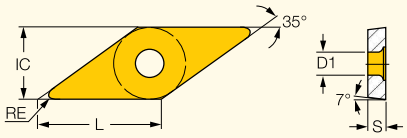
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

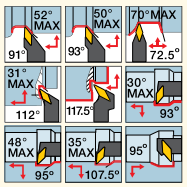
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L • AVC-SVLCR/L-VH • AVC-SVUCR/L • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-JHP-MC • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • SVJCR/L-16-JHP • SVPCR/L • SVVCN • SVXCR/L • Y-SVJCR • Y-SVJCR-JHP

ISOTURN

VCMT-M3M

35° Rhombic Positive Flank Inserts for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 160404-M3M	16.60	9.52	4.76	0.40	4.40	●	●	●	1.00-5.00	0.07-0.25
VCMT 160408-M3M	16.60	9.52	4.76	0.80	4.40	●	●		1.00-5.00	0.10-0.30
VCMT 160412-M3M	16.60	9.52	4.76	1.20	4.40	●	●	●	1.00-5.00	0.13-0.35

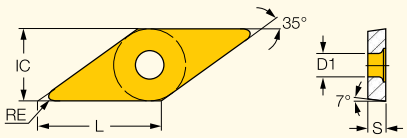
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

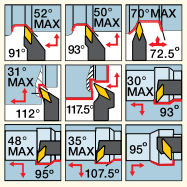
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L-VH • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • SVJCR/L • SVJCR/L-16-JHP • SVVCN • SVXCR/L • AVC-SVLCR/L

ISOTURN

VCMT-FPC-CERMET

35° Rhombic 7° Cermet Positive Flank Inserts for Semi-Finishing Turning of steel and Automotive Components





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 160404-FPC	16.60	9.52	4.76	0.40	●	●	0.70-2.00	0.04-0.22
VCMT 160408-FPC	16.60	9.52	4.76	0.80		●	0.70-2.00	0.04-0.22

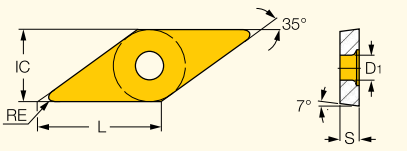
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

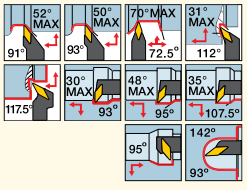
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L-VH • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • SVJCR/L • SVJCR/L-16-JHP • SVVCN • SVXCR/L • AVC-SVLCR/L

ISOTURN

VCGT-F1M-20P

35° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	IC1008	Recommended Machining Data a_p (mm)	f (mm/rev)
VCGT 1103005-F1M-20P	11.07	6.35	3.18	0.10	2.90	●	0.03-0.18	0.07-4.50
VCGT 110301-F1M-20P	11.07	6.35	3.18	0.40	2.90	●	0.03-0.18	0.30-4.50
VCGT 110302-F1M-20P	11.07	6.35	3.18	0.10	2.90	●	0.03-0.15	0.07-4.00
VCGT 110304-F1M-20P	11.07	6.35	3.18	0.40	2.90	●	0.03-0.15	0.30-4.00

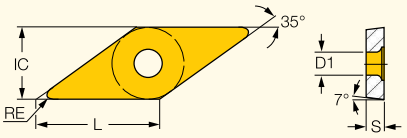
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

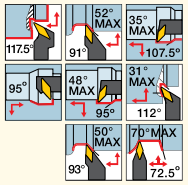
Tools: AVC-SVUCR/L • C#-SVJCR/L • C#-SVJCR/L-JHP • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-JHP-MC • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • SVPCR/L • SVVCN • Y-SVJCR • Y-SVJCR-JHP

ISOTURN

VCGT-MD/PF

35° Rhombic Inserts with a Positive Flank for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	IC830	Recommended Machining Data a_p (mm)	f (mm/rev)
VCGT 110301-PF	11.10	6.35	3.18	0.10	2.90	•	0.20-2.50	0.03-0.25
VCGT 110302-PF	11.40	6.35	3.18	0.20	2.90	•	0.30-2.50	0.03-0.25
VCGT 110304-PF	11.40	6.35	3.18	0.40	2.90	•	0.50-3.00	0.05-0.25
VCGT 130304-PF	13.00	7.94	3.18	0.40	3.40	•	0.50-3.00	0.05-0.25

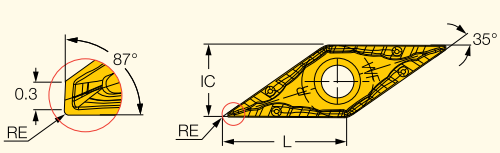
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

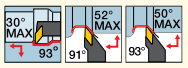
Tools: NQCH-SVACR/L-S-JHP • SVACR/L

ISOTURN

VCET-WF

35° Rhombic Wiper Inserts for Finishing Operations at High Feeds





Right-hand shown

Designation	Dimensions L	IC	S	RE	D1	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
VCET 1103005R/L-WF	11.10	6.35	3.18	0.05	2.90	•	0.05-4.00	0.01-0.20

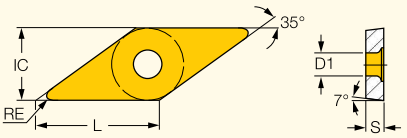
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

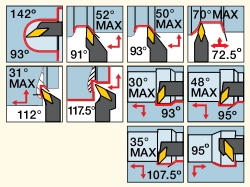
Tools: C#-SVJCR/L • C#-SVJCR/L-JHP • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • Y-SVJCR • Y-SVJCR-JHP • PVACR/L-JHP-MC

ISOTURN

VCMT-SM

35° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC8250	IC908	IC6015	IC8150	IC806	IC807	IC907	IC4	IC804	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 110302-SM	11.10	6.35	3.18	0.20	2.90				•				•	•			0.20-2.50	0.04-0.20
VCMT 110304-SM	11.10	6.35	3.18	0.40	2.90		•		•	•		•	•	•			0.50-3.00	0.07-0.24
VCMT 110308-SM	11.10	6.35	3.18	0.80	2.90				•								0.50-2.00	0.07-0.25
VCMT 160402-SM	16.60	9.52	4.76	0.20	4.40		•			•			•	•			0.50-2.50	0.05-0.20
VCMT 160404-SM	16.60	9.52	4.76	0.40	4.40		•	•			•	•	•	•			0.50-2.50	0.05-0.25
VCMT 160408-SM	16.60	9.52	4.76	0.80	4.40	•	•	•		•	•	•	•	•	•	•	0.90-2.50	0.07-0.25
VCMT 160412-SM	16.60	9.52	4.76	1.20	4.40								•	•			0.50-3.00	0.10-0.25

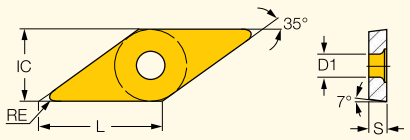
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

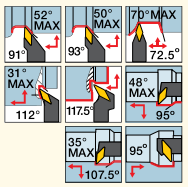
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L • AVC-SVLCR/L-VH • AVC-SVUCR/L • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-JHP-MC • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • SVJCR/L-16-JHP • SVPCR/L • SVVCN • SVXCR/L • Y-SVJCR • Y-SVJCR-JHP

ISOTURN

VCMT-14

35° Rhombic Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC20	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMT 160404-14	16.60	9.52	4.76	0.40	4.40	●	●	●	●	1.00-5.00	0.12-0.25
VCMT 160408-14	16.60	9.52	4.76	0.80	4.40	●	●		●	1.00-5.00	0.12-0.30

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

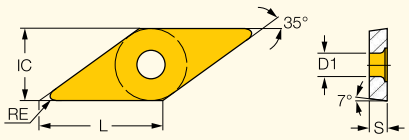
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L • AVC-SVLCR/L-VH • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • SVJCR/L • SVJCR/L-16-JHP • SVVCN • SVXCR/L

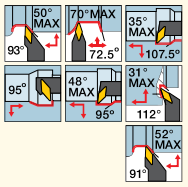
ISOTURN

VCMW

35° Rhombic Inserts with a 7° Positive Flank for Short Chipping Materials such as Cast Iron

Tolerances:
IC= ±0.05
S= ±0.13





Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VCMW 160404	16.60	9.52	4.76	0.40	4.40	●	0.70-4.00	0.05-0.25
VCMW 160408	16.60	9.52	4.76	0.80	4.40	●	1.00-5.00	0.05-0.25

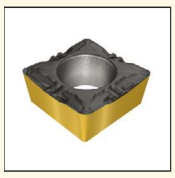
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

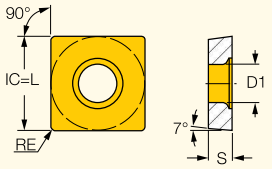
Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L-VH • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • HSK A63WH-SVJCR/L • SVJCR/L • SVJCR/L-16-JHP • SVVCN • SVXCR/L • AVC-SVLCR/L

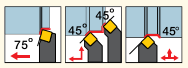
ISOTURN

SCMT-F3P

Square Positive Flank Inserts for Semi-Finishing and Finish Turning of Steel







Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T304-F3P	9.52	3.97	0.40	4.40	●	●	●	0.11-2.00	0.06-0.25
SCMT 09T308-F3P	9.52	3.97	0.80	4.40	●	●	●	0.15-2.00	0.08-0.32

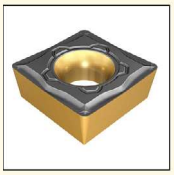
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

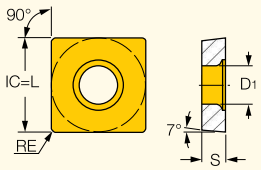
Tools: SSBCR/L • SSSCR/L

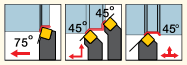
ISOTURN

SCMT-M3P

Square Positive Flank Inserts for Medium Machining Conditions on Steel







Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T304-M3P	9.52	3.97	0.40	4.40	●	●	●	0.50-3.00	0.07-0.25
SCMT 09T308-M3P	9.52	3.97	0.80	4.40	●	●	●	0.50-3.00	0.10-0.30
SCMT 120404-M3P	12.70	4.76	0.40	5.50	●	●	●	0.50-3.50	0.10-0.25
SCMT 120408-M3P	12.70	4.76	0.80	5.50	●	●	●	1.00-4.00	0.10-0.30
SCMT 120412-M3P	12.70	4.76	1.20	5.50	●	●	●	1.20-4.00	0.12-0.34

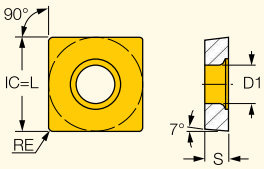
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

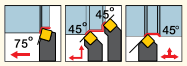
Tools: SSBCR/L • SSSCR/L

ISOTURN

SCMT-F3M

Square Positive Flank Inserts for Stainless Steel Finishing Applications





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC806	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T302-F3M	9.52	3.97	0.20	4.40	●	●	●	●	0.08-2.00	0.04-0.16
SCMT 09T304-F3M	9.52	3.97	0.40	4.40	●	●	●	●	0.11-2.00	0.06-0.25
SCMT 09T308-F3M	9.52	3.97	0.80	4.40	●	●	●	●	0.15-2.00	0.08-0.32
SCMT 120402-F3M	12.70	4.76	0.20	5.50	●	●	●	●	0.11-2.00	0.06-0.18
SCMT 120404-F3M	12.70	4.76	0.40	5.50	●	●	●	●	0.15-2.00	0.08-0.25
SCMT 120408-F3M	12.70	4.76	0.80	5.50	●	●	●	●	0.18-2.00	0.10-0.32

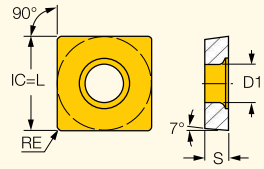
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

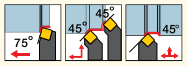
Tools: SSBCR/L • SSSCR/L

ISOTURN

SCMT-M3M

Square Positive Flank Inserts, for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T304-M3M	9.52	3.97	0.40	4.40	●	●	●	0.40-3.80	0.07-0.25
SCMT 09T308-M3M	9.52	3.97	0.80	4.40	●	●	●	0.80-3.80	0.10-0.30
SCMT 120404-M3M	12.70	4.76	0.40	5.50	●	●	●	0.40-4.00	0.10-0.25
SCMT 120408-M3M	12.70	4.76	0.80	5.50	●	●	●	0.80-4.00	0.12-0.34

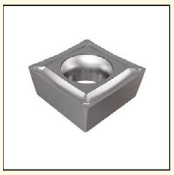
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

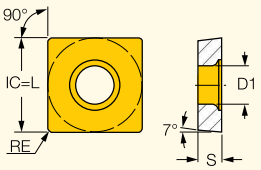
Tools: SSBCR/L • SSSCR/L

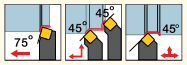
ISOTURN

SCMT-SM

Square Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys







Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC830	IC6025	IC8250	IC8150	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T304-SM	9.52	3.97	0.40	4.40			●	●		●	●	0.50-3.00	0.07-0.25
SCMT 09T308-SM	9.52	3.97	0.80	4.40	●	●	●	●	●	●	●	0.50-3.00	0.10-0.30
SCMT 120404-SM	12.70	4.76	0.40	5.50				●				0.50-3.50	0.10-0.25
SCMT 120408-SM	12.70	4.76	0.80	5.50			●	●		●	●	1.00-4.00	0.10-0.30

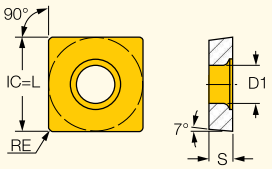
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

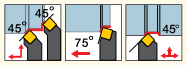
Tools: SSBCR/L • SSSCR/L

ISOTURN

SCMT-14

Square Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC8250	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
SCMT 09T304-14	9.52	3.97	0.40	4.40		●	●	1.00-3.50	0.12-0.30
SCMT 120404-14	12.70	4.76	0.40	5.50	●			1.00-4.00	0.12-0.30

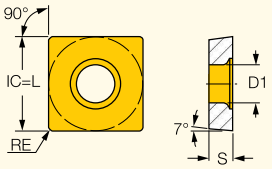
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

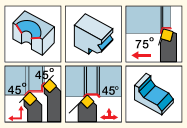
Tools: SSBCR/L • SSSCR/L

ISOTURN

SCMT-19

Square Inserts with a 7° Positive Flank for Semi-Roughing at Medium to High Feeds





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC830	IC20	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f_z (mm/rev)
SCMT 120408-19	12.70	4.76	0.80	5.50	●	●	●	●	●	3.00-8.00	0.08-0.15
SCMT 120412-19	12.70	4.76	1.20	5.50		●				3.00-8.00	0.08-0.15

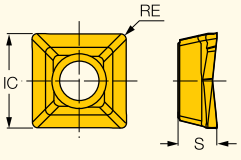
• For cutting speed recommendations, see pages 246-247

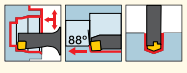
Tools: SSBCR/L • SSSCR/L

DRDRILLS

XOMT-DT

Inserts for DR Drills and Boring Bars





Designation	Dimensions IC	S	RE	Tough ↔ Hard IC28	IC328	IC250	IC350	IC908	IC520M
XOMT 060204-DT	6.16	2.56	0.40	●	●	●	●	●	●

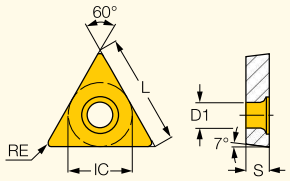
• Two cutting edges • For hard materials and interrupted cut

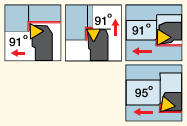
Tools: A-SXFOR-DR • A-SXFOR/L

ISOTURN

TCMT-F3P

Triangular Inserts with a Positive Flank for Semi-Finishing and Finish Turning on Steel





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TCMT 090202-F3P	9.60	2.38	0.20	2.50	•	•	•	•	0.06-1.70	0.03-0.14
TCMT 090204-F3P	9.60	2.38	0.40	2.50	•	•	•	•	0.10-1.70	0.05-0.20
TCMT 110202-F3P	11.00	2.38	0.20	2.80	•	•	•	•	0.06-1.70	0.03-0.14
TCMT 110204-F3P	11.00	2.38	0.40	2.80	•	•	•	•	0.10-1.70	0.05-0.20
TCMT 110208-F3P	11.00	2.38	0.80	2.80	•	•	•	•	0.13-1.70	0.07-0.28
TCMT 16T304-F3P	16.50	3.97	0.40	4.40	•	•	•	•	0.10-1.70	0.05-0.20

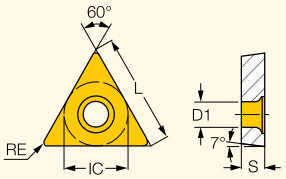
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

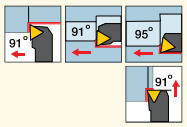
Tools: E-STFCR-HEAD • S-MTLCR/L-W • S-STFCR/L • S-STLCR/L • STFCR/L • STGCR/L

ISOTURN

TCMT-M3M

Triangular Positive Flank Inserts, for Machining Stainless and Low Carbon Steel





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC6025	IC6015	IC807	Recommended Machining Data a_p (mm)	f (mm/rev)
TCMT 110204-M3M	11.00	6.35	2.38	0.40	2.80	•	•	•	0.40-2.50	0.07-0.23
TCMT 110208-M3M	11.00	6.35	2.38	0.80	2.80	•	•	•	0.80-2.50	0.10-0.25
TCMT 16T304-M3M	16.50	9.52	3.97	0.40	4.40	•	•	•	0.40-3.00	0.07-0.25
TCMT 16T308-M3M	16.50	9.52	3.97	0.80	4.40	•	•	•	0.80-3.00	0.10-0.30

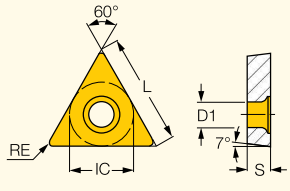
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

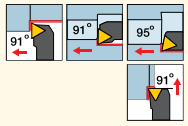
Tools: E-STFCR-HEAD • S-MTLCR/L-W • S-STFCR/L • S-STLCR/L • STFCR/L • STGCR/L

ISOTURN

TCMT-PF

Triangular Inserts with a Positive Flank for Semi-Finishing and Finishing on Soft Materials and Exotic Alloys





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TCMT 110202-PF	11.00	6.35	2.38	0.20	2.85	•	•	0.20-3.00	0.05-0.25

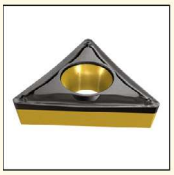
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

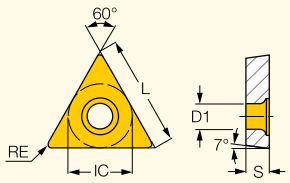
Tools: E-STFCR-HEAD • S-STFCR/L • S-STLCR/L • STFCR/L • STGCR/L

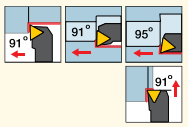
ISOTURN

TCMT-SM

Triangular Inserts with a 7° Positive Flank for Semi-Finishing and Finish Turning on Soft Materials and Exotic Alloys







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8350	IC8250	IC908	IC8150	IC5010	IC428	IC5005	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TCMT 110204-SM	11.00	6.35	2.38	0.40	2.80		●	●	●	●	●		●	●	●	0.20-3.00	0.05-0.25
TCMT 110208-SM	11.00	6.35	2.38	0.80	2.80			●						●	●	0.50-2.50	0.07-0.25
TCMT 16T304-SM	16.50	9.52	3.97	0.40	4.40	●		●		●		●	●	●	●	0.50-3.00	0.06-0.25
TCMT 16T308-SM	16.50	9.52	3.97	0.80	4.40	●		●		●			●	●	●	0.50-3.00	0.08-0.28
TCMT 16T308-SM*	16.50	9.52	3.97	0.80	4.40		●									0.50-3.00	0.08-0.28

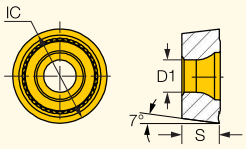
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

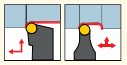
Tools: E-STFCR-HEAD S-MTLCR/L-W • S-STFCR/L • S-STLCR/L • STFCR/L • STGCR/L

ISOTURN

RCMT-M3P

Round Inserts with a 7° Positive Flank for Medium Profiling on a Wide Range of Materials





Designation	Dimensions IC	S	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMT 1204M0-M3P-R	12.00	4.76	5.50	●	1.50-6.00	0.30-0.55
RCMT 1606M0-M3P-R	16.00	6.35	5.50	●	2.00-8.00	0.40-0.80

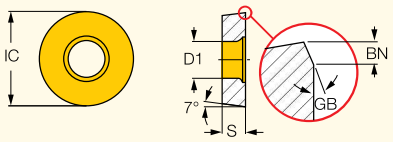
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

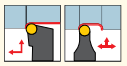
Tools: C#-RCMT-16-Y • C#-SRGCR/L • HSK A63WH-RCMT-Y • SRDCN • SRGCR/L

ISOTURN

RCMT-SR

Round Inserts with a 7° Positive Flank for Medium Profiling on a Wide Range of Materials





Designation	Dimensions IC	S	D1	GB	BN	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMT 0803M0-SR	8.00	3.18	3.40	15.0	0.15	●	1.00-4.50	0.30-0.45
RCMT 1606M0-SR	16.00	6.35	5.50	15.0	0.18	●	2.00-8.00	0.40-0.60

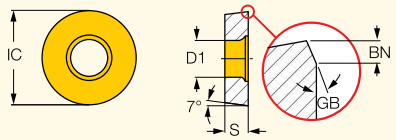
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

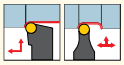
Tools: C#-RCMT-16-Y • HSK A63WH-RCMT-Y • SRDCN • SRGCR/L

ISOTURN

RCMT-14

Round Inserts with a 7° Positive Flank for Medium and Finish Profiling on a Wide Range of Materials





Designation	Dimensions IC	S	D1	GB	BN	Tough ↔ Hard IC354	IC8250	IC8150	IC20	IC5010	IC806	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMT 0803M0-14	8.00	3.18	3.40	15.0	0.15				●					1.00-4.00	0.30-0.45
RCMT 0803M0-14*	8.00	3.18	3.40	15.0	0.15		●							1.00-4.00	0.30-0.45
RCMT 10T3M0-14	10.00	3.97	4.40	15.0	0.15	●	●	●	●					1.50-5.00	0.30-0.50
RCMT 1204M0-14	12.00	4.76	5.50	15.0	0.15		●	●	●		●	●	●	1.50-6.00	0.30-0.50
RCMT 1606M0-14	16.00	6.35	5.50	15.0	0.25		●	●	●					2.00-8.00	0.40-0.60
RCMT 2006M0-14	20.00	6.35	6.50	15.0	0.25			●	●	●				2.50-10.00	0.50-0.70
RCMT 2006M0E-14	20.00	6.35	6.50	15.0	0.25			●						2.50-10.00	0.50-0.70

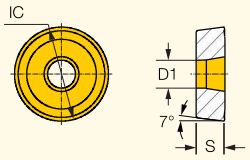
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

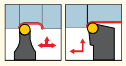
Tools: AVC-SRDCN-Y • C#-RCMT-16-Y • C#-SRGCR-12-JHP • C#-SRGCR/L • HSK A63WH-RCMT-Y • SRDCN • SRGCR-12-JHP • SRGCR/L

ISOTURN

RCMX-M3P-R

Round 7° Insert with a Positive Cutting Edge for Machining Wheels





Designation	Dimensions IC	S	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMX 200600-M3P-R	20.00	6.35	5.50	●	1.50-10.00	0.40-0.80
RCMX 320900-M3P-R	32.00	9.52	9.50	●	7.00-13.00	0.70-2.00

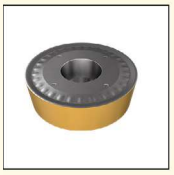
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

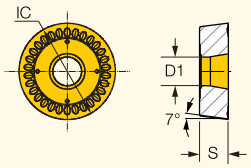
Tools: PRDCN

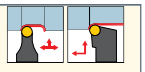
ISOTURN

RCMX-R3P-R

Round 7° Insert with a Positive Cutting Edge for Machining Wheels







Designation	Dimensions IC	S	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMX 320900-R3P-R	32.00	9.52	9.50	●	7.00-13.00	0.70-2.00

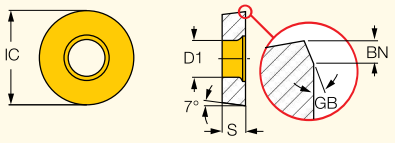
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

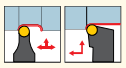
Tools: PRDCN

ISOTURN

RCMX

Round Inserts with a 7° Positive Flank and Reinforced Cutting Edge for Semi-Roughing and Rough Profiling





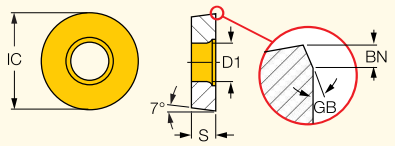
Designation	Dimensions IC	S	D1	GB	BN	Tough ↔ Hard IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMX 100300	10.00	3.18	3.60	15.0	0.01	•		1.50-5.00	0.30-0.50
RCMX 120400	12.00	4.76	4.20	15.0	0.15		•	1.50-6.00	0.30-0.50
RCMX 200600	20.00	6.35	6.50	15.0	0.01	•		2.50-10.00	0.50-0.50

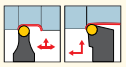
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

ISOTURN

RCMX-NR

Round 7° Inserts with a Positive Flank and Strong Cutting Edge for Rough Turning





Designation	Dimensions IC	S	D1	GB	BN	IC8250	Recommended Machining Data a_p (mm)	f (mm/rev)
RCMX 250700-NR	25.00	7.94	7.20	17.0	0.30	•	4.00-10.00	0.50-1.50
RCMX 3209M0-NR	32.00	9.52	10.00	17.0	0.30	•	7.00-13.00	0.70-2.00

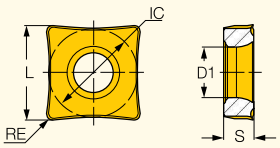
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

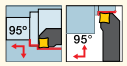
Tools: PRDCN • PRGCR

ISOTURN

QCMT-PF

Four 80° Cornered Insert with a Positive 7° Clearance and Chipformer for Finishing Applications





Designation	Dimensions IC	S	RE	D1	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
QCMT 09T302-PF	9.65	3.97	0.20	4.40	•	0.50-2.50	0.05-0.30

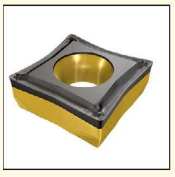
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

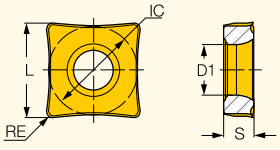
Tools: PQLCR/L • PQLCR/L-S • S/A-SQLCR/L

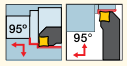
ISOTURN

QCMT-SM

Inserts with a Positive 7° Clearance and Chipformer for Finishing Applications







Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
QCMT 09T304-SM	10.40	9.65	3.97	0.40	4.40	•	•	•	0.50-2.50	0.06-0.25

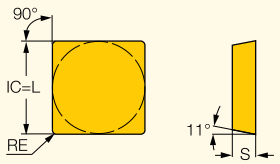
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

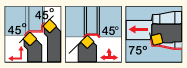
Tools: PQLCR/L • PQLCR/L-S • S/A-SQLCR/L

ISOTURN

SPMR

Square Inserts with a Positive Chipformer Exerting Low Cutting Forces for Semi-Finishing and Finishing Applications





Designation	Dimensions L	S	RE	Tough ↔ Hard IC830	IC8250	IC8150	IC20N	Recommended Machining Data a_p (mm)	f (mm/rev)
SPMR 090304	9.52	3.18	0.40		●		●	1.50-5.00	0.15-0.30
SPMR 090308	9.52	3.18	0.80	●	●			1.50-6.00	0.16-0.35
SPMR 120304	12.70	3.18	0.40	●	●			1.50-5.00	0.15-0.35
SPMR 120308	12.70	3.18	0.80		●			1.50-6.00	0.16-0.40
SPMR 120312	12.70	3.18	1.20		●	●		1.50-6.00	0.20-0.40

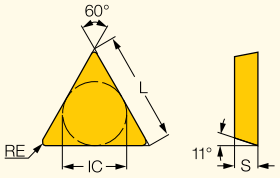
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

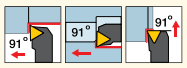
Tools: CSDPN • CSSPR/L • S-CSKPR

ISOTURN

TPMR

Triangular 11° Positive Inserts with a Positive Chipformer Exerting Low Cutting Forces for Internal Finish Turning





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC8350	IC8250	IC20N	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TPMR 090202	9.60	5.56	2.38	0.20						●	1.00-3.00	0.10-0.20
TPMR 090204	9.60	5.56	2.38	0.40			●				1.00-3.50	0.15-0.20
TPMR 110304	11.00	6.35	3.18	0.40	●			●			1.00-3.50	0.15-0.25
TPMR 110308	11.00	6.35	3.18	0.80	●						1.00-3.50	0.15-0.30
TPMR 160304	16.50	9.52	3.18	0.40	●	●		●	●	●	1.00-4.00	0.15-0.33
TPMR 160308	16.50	9.52	3.18	0.80	●			●	●	●	1.00-4.00	0.15-0.35

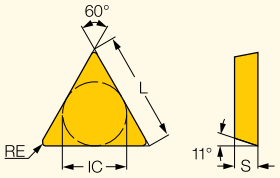
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

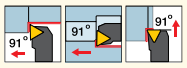
Tools: CTFPR/L • CTGPR/L • S-CTFPR/L

ISOTURN

TPMR-PF

Triangular 11° Positive Inserts with a Positive Chipformer Exerting Low Cutting Forces for Internal Finish Turning





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC8250	IC8150	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TPMR 110304-PF	11.00	6.35	3.18	0.40	●		●	●	0.40-3.00	0.08-0.25
TPMR 110308-PF	11.00	6.35	3.18	0.80	●			●	0.50-3.50	0.07-0.28
TPMR 160304-PF	16.50	9.52	3.18	0.40	●	●	●	●	0.50-3.50	0.06-0.25
TPMR 160308-PF	16.50	9.52	3.18	0.80	●	●		●	0.80-3.00	0.08-0.28

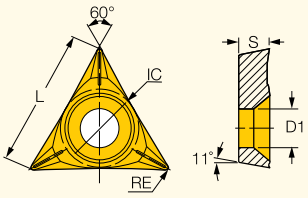
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

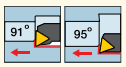
Tools: CTFPR/L • CTGPR/L • S-CTFPR/L

ISOTURN

TPGT-SP

Super Positive Triangular Inserts with 11° Clearance for Fine Boring and Finish Turning





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC908	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGT 110202-SP	11.00	6.35	2.38	0.20	3.00	●	●	0.40-1.00	0.05-0.15

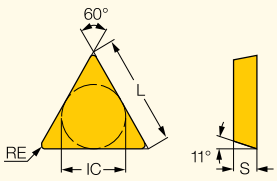
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

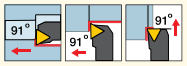
Tools: E-STFPR-HEAD

ISOTURN

TPMR-FTF

Triangular 11° Positive Inserts with a Positive Chipformer Exerting, Low Cutting Forces for Finish Turning Applications





Designation	Dimensions L	IC	S	RE	IC20N	Recommended Machining Data a_p (mm)	f (mm/rev)
TPMR 110304-FTF	11.00	6.35	3.18	0.40	●	0.50-3.00	0.07-0.25
TPMR 160304-FTF	16.50	9.52	3.18	0.40	●	0.50-3.00	0.07-0.25

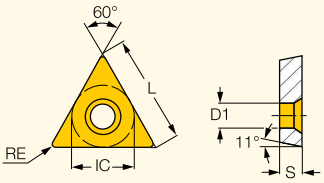
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

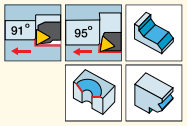
Tools: CTFPR/L • CTGPR/L • S-CTFPR/L

ISOTURN

TPMT

Triangular 11° Positive Inserts with a Positive Chipformer Exerting Low Cutting Forces for Internal Finish Turning





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC635	IC50M	IC8350	IC8250	IC8150	IC520M	IC20	IC806	IC807	IC907	Recommended Machining Data a_p (mm)(1)	f (mm/rev)(2)
TPMT 110202	11.00	6.35	2.38	0.20	3.00	●									●	●	0.20-2.00	0.05-0.25
TPMT 110204	11.00	6.35	2.38	0.40	3.00	●				●	●		●		●	●	1.00-3.00	0.12-0.30
TPMT 110208	11.00	6.35	2.38	0.80	3.00	●				●	●		●				1.00-4.00	0.15-0.30
TPMT 160304	16.50	9.52	3.18	0.40	4.30	●			●	●			●		●	●	1.00-4.00	0.12-0.30
TPMT 160308	16.50	9.52	3.18	0.80	4.30	●	●	●		●		●	●	●	●	●	5.00-12.00	0.15-0.35

• For cutting speed recommendations, see pages 246-247

(1) For turning

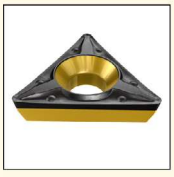
(2) For turning

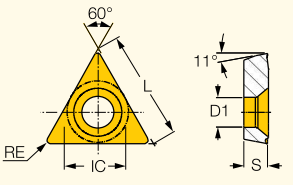
Tools: A/E/S-STFPR/L • A/S-STLPR/L • E-STFPR-HEAD

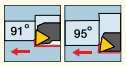
ISOTURN

TPMT-PF

Triangular 11° Positive Inserts for Semi-Finishing and Finishing Applications







Designation	Dimensions L	IC(1)	S	RE	D1	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
TPMT 110204-PF	11.00	6.35	2.38	0.40	3.00	●	0.50-3.00	0.10-0.30

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

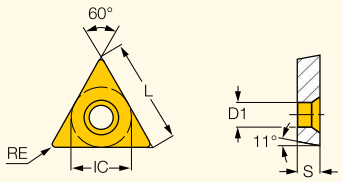
(1) Actual di=6.28, to be used in 6.35mm pocket size

Tools: A/E/S-STFPR/L • A/S-STLPR/L • E-STFPR-HEAD

ISOTURN

TPGB

Triangular Inserts with an 11° Positive Flank for Short Chipping Materials



Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGB 110204	11.00	6.35	2.38	0.40	3.00	●	1.00-3.00	0.05-0.25

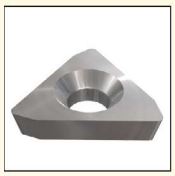
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

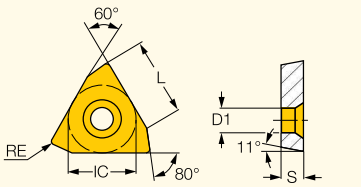
Tools: A/E/S-STFPR/L • A/S-STLPR/L • E-STFPR-HEAD

ISOTURN

TPGB-XL

Triangular Inserts with an 11° Positive Flank for Short Chipping Materials





Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGB 110204-XL	11.00	6.35	2.38	0.40	3.00	●	1.00-3.00	0.05-0.25

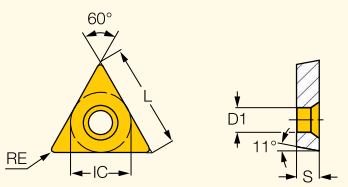
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-STFPR/L • A/S-STLPR/L • E-STFPR-HEAD

ISOTURN

TPGH-R/L

Triangular Inserts with an 11° Positive and Ground Chipformer for Finish Turning



Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC908	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGH 110204-L	11.00	6.35	2.38	0.40	3.00		●	1.00-3.00	0.05-0.25
TPGH 110208-L	11.00	6.35	2.38	0.80	3.00	●		1.00-3.00	0.05-0.25
TPGH 160304-L	16.50	9.52	3.18	0.40	4.30		●	1.00-4.00	0.05-0.30
TPGH 160304-R	16.50	9.52	3.18	0.40	4.30			1.00-4.00	0.05-0.30
TPGH 160308-L	16.50	9.52	3.18	0.80	4.30		●	1.00-4.00	0.05-0.30

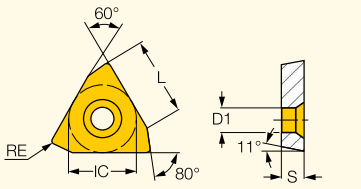
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-STFPR/L • A/S-STLPR/L

ISOTURN

TPGH-XL

Triangular Inserts with an 11° Positive and Ground Chipformer for Finish Turning



Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGH 110204-XL	11.00	6.35	2.38	0.40	3.00	●	1.00-3.00	0.05-0.25

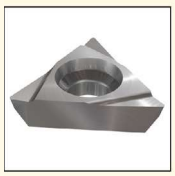
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

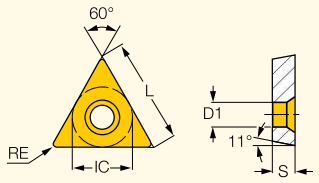
Tools: A/E/S-STFPR/L • A/S-STLPR/L • E-STFPR-HEAD

ISOTURN

TPGX

Triangular Inserts with an 11° Positive Flank and Ground Chipformer for Finish Turning





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC908	IC20	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
TPGX 090202-L	9.52	5.56	2.38	0.20	3.00	●	●	●	●	1.00-2.00	0.10-0.20
TPGX 090204-L	9.52	5.56	2.38	0.40	3.00	●	●	●	●	1.00-2.50	0.15-0.20
TPGX 110302-L	11.00	6.35	3.18	0.20	3.50	●	●	●	●	1.00-2.50	0.10-0.20
TPGX 110304-L	11.00	6.35	3.18	0.40	3.50	●	●	●	●	1.00-3.00	0.15-0.20
TPGX 110308-L	11.00	6.35	3.18	0.80	3.50		●			1.00-3.50	0.15-0.25

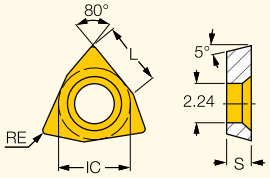
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E-STFPR-X • MG STFPR-X

ISOTURN

WBGT

Trigon Inserts with a 5° Positive Flank Ground Chipformer for Finish Turning



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC908	IC807	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
WBGT 060102L	2.18	3.97	1.59	0.20	●	●	●	●	0.10-1.00	0.05-0.10

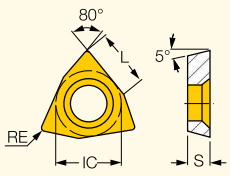
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

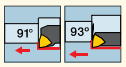
Tools: E/S-SWUBR/L • MG-SWUBR/L • PICIN-SWUBR/L

ISOTURN

WBMT

Trigon Inserts with a 5° Positive Flank Ground Chipformer for Finish Turning





Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC830	IC354	IC350	IC908	IC30N	IC530N	IC20N	IC520N	Recommended Machining Data a_p (mm)	f (mm/rev)
WBMT 060101R/L	2.18	3.97	1.59	0.10				●					0.40-2.00	0.10-0.15
WBMT 060102L	2.18	3.97	1.59	0.20	●	●	●		●	●	●	●	0.40-2.00	0.10-0.15
WBMT 060102R	2.18	3.97	1.59	0.20		●	●			●		●	0.40-2.00	0.10-0.15

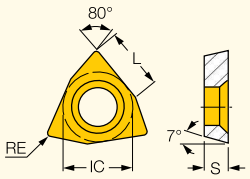
- WBMT 06...R right-hand inserts used on left-hand tools and WBMT 06...L left-hand inserts used on right-hand tools
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: E/S-SWUBR/L • MG-SWUBR/L • PICIN-SWUBR/L

ISOTURN

WCGT

Trigon Inserts with a 7° Positive Flank and Chipformer for Finish Turning



Designation	Dimensions L	IC	S	RE	Tough ↔ Hard IC908	IC30N	Recommended Machining Data a_p (mm)	f (mm/rev)
WCGT 020102L	2.18	3.97	1.59	0.20	•	•	0.40-2.00	0.05-0.10
WCGT 020104L	2.18	3.97	1.59	0.40	•	•	0.40-2.00	0.10-0.15

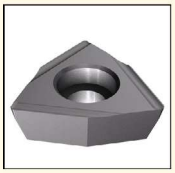
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

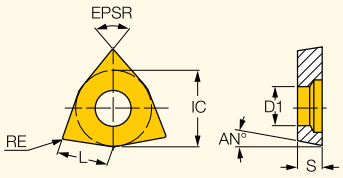
Tools: A/E-SWUCR • MG-SWUCR

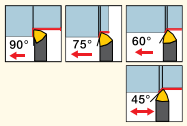
ISOTURN

WPEX

80° and 84° Precision Trigon Inserts with Positive 8° and 12° Clearance for Finishing Applications







Designation	Dimensions L	S	RE	IC	D1	EPSR	AN	Tough ↔ Hard IC08	IC908	Recommended Machining Data a_p (mm)	f (mm/rev)
WPEX 040200R/L08	4.00	2.50	0.00	6.60	3.20	84.0	8.0	•		0.20-2.00	0.05-0.20
WPEX 040200R12	4.00	2.50	0.00	6.60	3.20	84.0	12.0	•		0.20-2.00	0.05-0.20
WPEX 040202R/L08	4.00	2.50	0.20	6.60	3.20	84.0	8.0	•		0.20-2.00	0.05-0.20
WPEX 050300R/L08	5.00	3.18	0.00	7.94	3.70	80.0	8.0	•	•	0.20-2.50	0.05-0.20
WPEX 050300R12	5.00	3.18	0.00	7.94	3.70	80.0	12.0	•	•	0.20-2.50	0.05-0.20
WPEX 050302R/L08	5.00	3.18	0.20	7.94	3.70	80.0	8.0	•	•	0.20-2.50	0.05-0.20
WPEX 050302R12	5.00	3.18	0.20	7.94	3.70	80.0	12.0		•	0.20-2.50	0.05-0.20
WPEX 050304R/L08	5.00	3.18	0.40	7.94	3.70	80.0	8.0	•	•	0.20-2.50	0.05-0.20
WPEX 050304R12	5.00	3.18	0.40	7.94	3.70	80.0	12.0		•	0.20-2.50	0.05-0.20
WPEX 060400R/L08	6.00	4.00	0.00	9.52	3.70	80.0	8.0	•	•	0.20-3.00	0.05-0.20
WPEX 060400R/L12	6.00	4.00	0.00	9.52	3.70	80.0	12.0	•	•	0.20-3.00	0.05-0.20
WPEX 060402R/L08	6.00	4.00	0.20	9.52	3.70	80.0	8.0	•	•	0.20-3.00	0.05-0.20
WPEX 060402R/L12	6.00	4.00	0.20	9.52	3.70	80.0	12.0	•	•	0.20-3.00	0.05-0.20
WPEX 060404R/L08	6.00	4.00	0.40	9.52	3.70	80.0	8.0	•	•	0.20-3.00	0.05-0.20
WPEX 060404R12	6.00	4.00	0.40	9.52	3.70	80.0	12.0	•	•	0.20-3.00	0.05-0.20

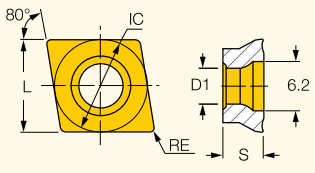
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

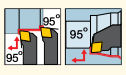
Tools: SWAPR-PAD • SWAPR/L • SWDPR/L

CHAMTURN

CC95MT-SM

Single-Sided 80° Rhombic Inserts for Finishing (CHAMELEON Multifunction Pocket System)





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
CC95MT 100504-SM	9.50	9.52	5.00	0.40	4.50	•	•	•	0.50-3.00	0.07-0.24

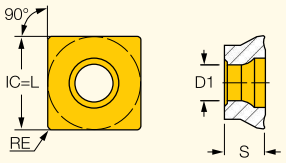
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

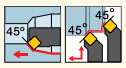
Tools: S-SUXCR/L-CM • SUXCR/L-CM

CHAMTURN

SC45MT-SM

Single-Sided Square Inserts for Finishing Applications (CHAMELEON Multifunction Pocket System)





Designation	Dimensions L	S	RE	D1	Tough ↔ Hard IC830	IC8250	IC8150	Recommended Machining Data a_p (mm)	f (mm/rev)
SC45MT 100508-SM	9.53	5.00	0.80	4.50	●	●	●	0.50-3.00	0.10-0.30

- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: S-SUXCR/L-CM • SUXCR/L-CM

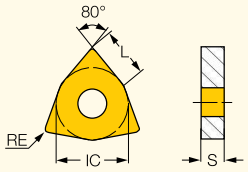
Inserts for Machining Aluminum

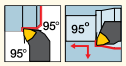
ISOTURN

ALUPTURN POSITIVE DOUBLE SIDED

WNGG-F3N

Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
WNGG 060402-F3N-P	6.52	9.52	4.76	0.20	●	0.20-3.00	0.10-0.30
WNGG 060404-F3N-P	6.52	9.52	4.76	0.40	●	0.40-3.00	0.12-0.35
WNGG 060408-F3N-P	6.52	9.52	4.76	0.80	●	0.80-3.00	0.15-0.40

- For user guide and cutting speed recommendations, see pages 122-134, 236-254

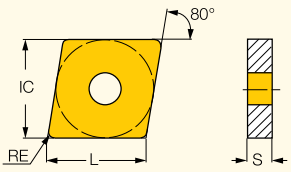
Tools: A-PWLNR/L-X/G • A/S-MWLNR/L-W • DWLNR/L • MWLNR/L-W • PWLNR/L-X • PWLNR/L-X-JHP • PWLNR/L-X-JHP-MC

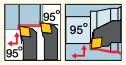
ISOTURN

ALUPTURN POSITIVE DOUBLE SIDED

CNGG-F3N

Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
CNGG 090402-F3N-P	9.70	9.52	4.76	0.20	●	0.30-3.00	0.10-0.30
CNGG 090404-F3N-P	9.70	9.52	4.76	0.40	●	0.40-3.00	0.10-0.30
CNGG 090408-F3N-P	9.70	9.52	4.76	0.80	●	0.80-3.00	0.10-0.30

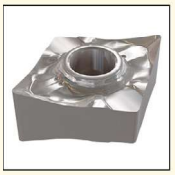
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

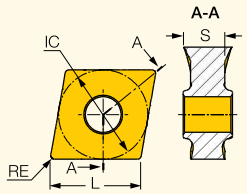
Tools: A/S-PCLNR/L-X/G • C#-PCLNR/L-X-JHP • DCLNR/L • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC • AVC-PCLNR/L

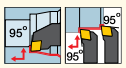
HELITURN LD

CNGX-M3N

Double-Sided Positive Rake Inserts with High Helical and Sharp Edge for Medium Machining on Non-Ferrous Materials







Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
CNGX 090604-M3N-P	9.70	9.52	4.40	0.40	●	0.40-3.00	0.10-0.30
CNGX 090608-M3N-P	9.70	9.52	4.40	0.80	●	0.80-3.00	0.10-0.30

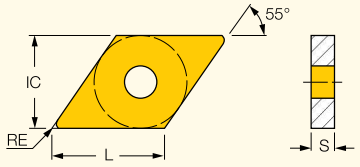
- PCLNR/L...X and A..-PCLNR/L-X are most recommended as they were designed especially for this insert
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

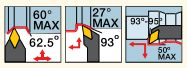
Tools: A/S-PCLNR/L-X/G • C#-PCLNR/L-X-JHP • DCLNR/L • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC

ISOTURN
ALUPTURN POSITIVE DOUBLE SIDED

DNGG-M3N

Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
DNGG 110402-M3N-P	11.63	9.52	4.76	0.20	●	0.30-3.00	0.10-0.30
DNGG 110404-M3N-P	11.63	9.52	4.76	0.40	●	0.30-3.00	0.10-0.30
DNGG 110408-M3N-P	11.63	9.52	4.76	0.80	●	0.30-3.00	0.10-0.30

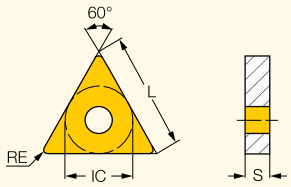
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

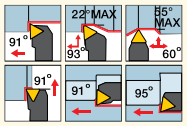
Tools: A/S-PDUNR/L • AVC-DDUNR/L • C#-PDJNR/L-JHP • DDJNR/L • PDJNR/L • PDJNR/L-JHP

ISOTURN
ALUPTURN POSITIVE DOUBLE SIDED

TNGG-M3N

Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TNGG 160402-M3N-P	16.50	9.52	4.76	0.20	●	0.30-3.00	0.10-0.30
TNGG 160404-M3N-P	16.50	9.52	4.76	0.40	●	0.30-3.00	0.10-0.30
TNGG 160408-M3N-P	16.50	9.52	4.76	0.80	●	0.30-3.00	0.10-0.30

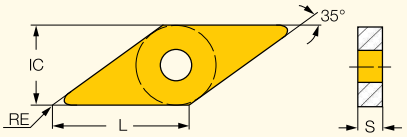
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

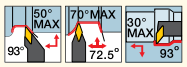
Tools: A-PTFNR/L-X/G • DTGNR/L • MTENN-W • MTJNR/L-W • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-MTLNR/L-W • S-PTFNR/L

ISOTURN
ALUPTURN POSITIVE DOUBLE SIDED

VNGG-M3N

Double-Sided Sharp-Edged Positive and Polished Rake Inserts for Finishing on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VNGG 160402-M3N-P	16.60	9.52	4.76	0.20	●	0.20-3.00	0.10-0.25
VNGG 160404-M3N-P	16.60	9.52	4.76	0.40	●	0.40-3.00	0.12-0.30

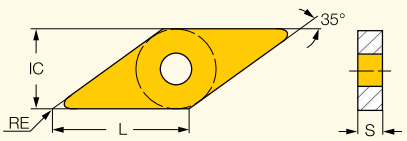
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

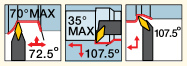
Tools: AVC-DVUNR/L • MVJNR/L • MVVNN

ISOTURN
ALUPTURN POSITIVE DOUBLE SIDED

VNGU-R3N

Double-Sided Sharp-Edged Positive Rake Inserts for Rough Machining on Aluminum and Other Non-Ferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VNGU 220612-R3N	22.00	12.70	6.77	1.20	●	1.00-4.50	0.10-0.30
VNGU 220616-R3N	22.00	12.70	6.51	1.60	●	1.50-4.50	0.10-0.35
VNGU 220630-R3N	22.00	12.70	6.35	3.00	●	1.50-4.50	0.15-0.40

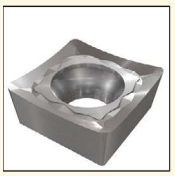
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

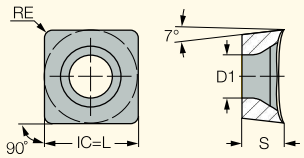
Tools: A-SVLFNR-AL-JHP • A-SVQNR/L-AL-JHP • SVHNR/L-AL-JHP • SVVNN-AL-JHP

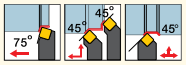
ISOTURN

SCGT-AS

Square Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum







Designation	Dimensions IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
SCGT 09T308-AS	9.52	3.97	0.80	4.40	●	0.50-3.00	0.10-0.30
SCGT 120404-AS	12.70	4.76	0.40	5.50	●	1.00-4.00	0.10-0.30
SCGT 120408-AS	12.70	4.76	0.80	5.50	●	1.00-4.00	0.10-0.30

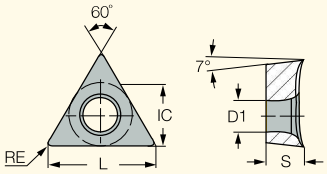
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

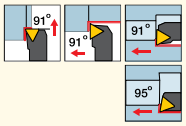
Tools: SSBCR/L • SSSCR/L

ISOTURN

TCGT-AS

Triangular Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum





Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TCGT 110204-AS	11.00	6.35	2.38	0.40	2.80	●	0.20-3.00	0.05-0.30
TCGT 16T304-AS	16.50	9.52	3.97	0.40	4.40	●	0.50-3.00	0.05-0.30
TCGT 16T308-AS	16.50	9.52	3.97	0.80	4.40	●	0.50-3.00	0.10-0.30

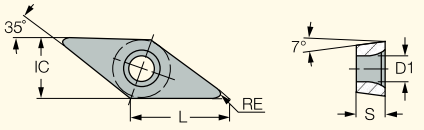
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

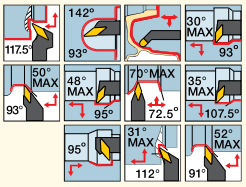
Tools: E-STFCR-HEAD • S-MTLCR/L-W • S-STFCR/L • S-STLCR/L • STFCR/L • STGCR/L

ISOTURN

VCGT-AS

35° Rhombic Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC920	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VCGT 110302-AS	11.10	6.35	3.18	0.20	2.90	●	●	0.20-2.50	0.05-0.20
VCGT 110304-AS	11.10	6.35	3.18	0.40	2.90		●	0.50-3.00	0.05-0.25
VCGT 160401-AS	16.60	9.52	4.76	0.10	4.40		●	0.20-2.50	0.05-0.20
VCGT 160402-AS	16.60	9.52	4.76	0.20	4.40		●	0.50-2.50	0.05-0.25
VCGT 160404-AS	16.60	9.52	4.76	0.40	4.40		●	0.50-3.00	0.05-0.25
VCGT 160408-AS	16.60	9.52	4.76	0.80	4.40		●	0.50-3.00	0.10-0.25
VCGT 160412-AS	16.60	9.52	4.76	1.20	4.40		●	0.50-3.00	0.10-0.25
VCGT 220530-AS	22.10	12.70	5.56	3.00	5.50		●	1.50-4.50	0.15-0.30

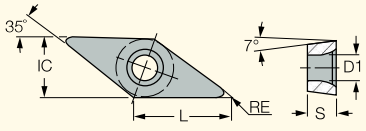
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-SVLBCR/L • A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • AVC-SVLCR/L-VH • AVC-SVUCR/L • C#-SVJCR/L • C#-SVJCR/L-JHP • C#-SVVCN • DTF50 SVXCR-16X2 • DTF50 SVXCR-22 • HSK A63WH-SVJCR/L • NQCH-SVACR/L-S-JHP • NQCH-Y-SVJCR-S-JHP • PVACR/L-JHP • PVACR/L-S • S/A-SVJCR/L • SVACR/L • SVJCR-PAD • SVJCR/L • SVJCR/L-16-JHP • SVPCR/L • SVVCN • SVXCR/L • Y-SVJCR • Y-SVJCR-JHP • AVC-SVLCR/L • PVACR/L-JHP-MC

ISOTURN

VCGT-AF

Inserts with a Very Positive Rake Angle and Sharp Cutting Edge for Semi-Finishing and Finishing on Aluminum



Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VCGT 220508-AF	22.10	12.70	5.56	0.80	5.50	●	1.00-4.50	0.10-0.25
VCGT 220512-AF	22.10	12.70	5.56	1.20	5.50	●	1.00-4.50	0.10-0.30
VCGT 220516-AF	22.10	12.70	5.56	1.60	5.50	●	1.50-4.50	0.10-0.35

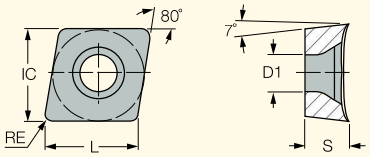
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

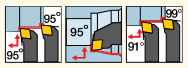
Tools: A/S-SVLFCR/L; A-SVUCR/L • A/S-SVQCR/L • DTF50 SVXCR-22

ISOTURN

CCGT-AS

80° Rhombic Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum





Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 060201-AS	6.40	6.35	2.38	0.10	2.80	●	0.50-2.00	0.10-0.20
CCGT 060202-AS	6.40	6.35	2.38	0.20	2.80	●	0.50-2.00	0.10-0.20
CCGT 060204-AS	6.40	6.35	2.38	0.40	2.80	●	0.50-2.00	0.10-0.25
CCGT 09T301-AS	9.70	9.52	3.97	0.10	4.40	●	0.50-2.50	0.10-0.25
CCGT 09T302-AS	9.70	9.52	3.97	0.20	4.40	●	0.50-2.50	0.10-0.25
CCGT 09T304-AS	9.70	9.52	3.97	0.40	4.40	●	0.50-2.50	0.10-0.25
CCGT 09T308-AS	9.70	9.52	3.97	0.80	4.40	●	0.80-3.00	0.10-0.30
CCGT 120402-AS	12.90	12.70	4.76	0.20	5.50	●	0.50-2.50	0.10-0.25
CCGT 120404-AS	12.90	12.70	4.76	0.40	5.50	●	0.50-2.50	0.10-0.25
CCGT 120408-AS	12.90	12.70	4.76	0.80	5.50	●	1.00-3.50	0.10-0.30

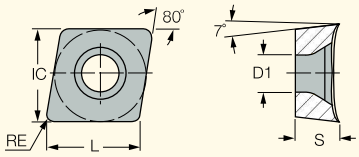
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • NQCH-SCACR/L-JHP • PCLCR/L-S • PCLCR/L-S-JHP • SCACR/L-S • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

CCGT-AF

80° Rhombic Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum



Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
CCGT 09T308-AF	9.70	9.52	3.97	0.80	4.40	●	0.80-3.00	0.15-0.25
CCGT 120408-AF	12.90	12.70	4.76	0.80	5.50	●	1.00-3.50	0.15-0.30

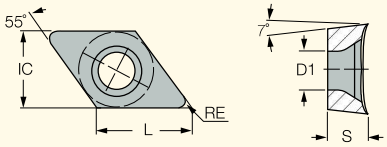
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

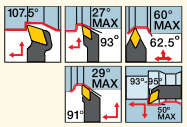
Tools: A/E/S-SCLCR/L • C#-SCLCR/L-JHP • E-SCLCR/L-HEAD • PCLCR/L-S • PCLCR/L-S-JHP • SCLCR-PAD • SCLCR/L • AVC-SCLCR/L • PCLCR/L-JHP-MC

ISOTURN

DCGT-AS

55° Rhombic Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum





Designation	Dimensions L	IC	S	RE	D1	Tough ↔ Hard IC920	IC20	IC320	IC907	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 070201-AS	7.75	6.35	2.38	0.10	2.80		●			0.50-2.00	0.03-0.20
DCGT 070202-AS	7.75	6.35	2.38	0.20	2.80	●	●			0.50-2.00	0.05-0.20
DCGT 070204-AS	7.75	6.35	2.38	0.40	2.80		●			0.50-2.50	0.05-0.25
DCGT 11T301-AS	11.60	9.52	3.97	0.10	4.40		●			0.50-2.50	0.05-0.25
DCGT 11T302-AS	11.60	9.52	3.97	0.20	4.40		●	●	●	0.50-2.50	0.05-0.26
DCGT 11T304-AS	11.60	9.52	3.97	0.40	4.40		●	●	●	0.50-2.50	0.05-0.25
DCGT 11T308-AS	11.60	9.52	3.97	0.80	4.40		●	●		0.80-3.00	0.08-0.30

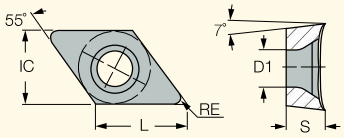
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

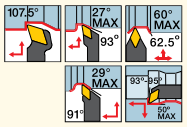
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • E-SDUCR/L-HEAD • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR-PAD • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

ISOTURN

DCGT-AF

Inserts with a Very Positive Rake Angle and Sharp Cutting Edge for Semi-Finishing and Finishing on Aluminum





Designation	Dimensions L	IC	S	RE	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
DCGT 11T304-AF	11.60	9.52	3.97	0.40	4.40	●	0.50-2.50	0.05-0.25

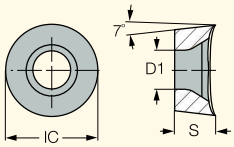
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

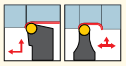
Tools: A/E/S-SDUCR/L • AVC-SDUCR/L • AVC-SDUCR/L-VH • C#-SDJCR-JHP • C#-SDJCR/L • C#-SDNCN • NQCH-SDACR/L-S-JHP • NQCH-Y-SDJCR-S-JHP • PDACR/L-JHP • PDACR/L-S • SDACR/L • SDHCR/L • SDJCR/L • SDNCN • Y-SDJCR • Y-SDJCR-JHP • PDACR/L-JHP-MC

ISOTURN

RCGT-AS

Round Inserts with a 7° Positive Flank, Very Positive Rake Angle and Sharp Cutting Edge for Machining Aluminum





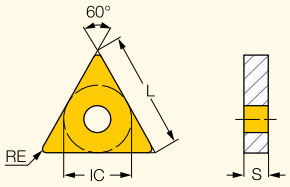
Designation	Dimensions IC	S	D1	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
RCGT 0803M0-AS	8.00	3.18	3.40	●	1.00-4.00	0.20-0.40
RCGT 1003M0-AS	10.00	3.18	4.00	●	1.00-5.00	0.20-0.40
RCGT 10T3M0-AS	10.00	3.97	4.40	●	1.00-5.00	0.20-0.40

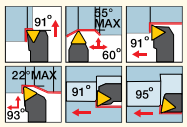
- For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: SRDCN • SRGCR/L

ISOTURN

TNMS-12
Triangular Single-Sided Inserts for Soft and Nonferrous Materials





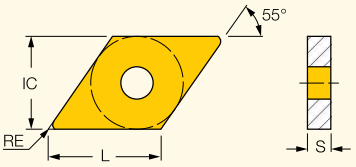
Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
TNMS 160404-12	16.50	9.52	4.76	0.40	●	0.50-3.00	0.07-0.32
TNMS 160408-12	16.50	9.52	4.76	0.80	●	0.50-3.00	0.10-0.35
TNMS 220404-12	22.00	12.70	4.76	0.40	●	1.00-4.00	0.07-0.32
TNMS 220408-12	22.00	12.70	4.76	0.80	●	1.00-4.00	0.10-0.35

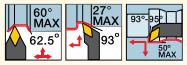
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A-PTFNR/L-X/G • PTFNR/L • PTGNR/L • PTGNR/L-X • PTGNR/L-X-JHP • PTGNR/L-X-JHP-MC • S-PTFNR/L

ISOTURN

DNMS-12
55° Rhombic Single-Sided Inserts for Soft and Nonferrous Materials





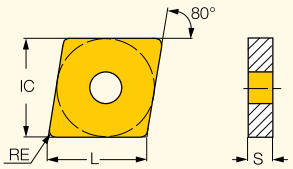
Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
DNMS 150408-12	15.50	12.70	4.76	0.80	●	1.00-4.00	0.07-0.35

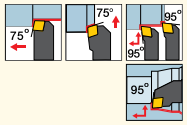
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PDUNR/L • C#-PDJNR/L-JHP • PDJNR/L • PDJNR/L-JHP

ISOTURN

CNMS-12
80° Rhombic Single-Sided Inserts for Soft and Nonferrous Materials





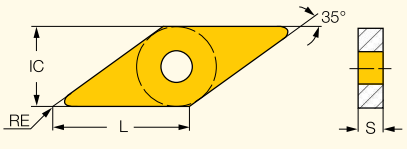
Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
CNMS 120408-12	12.90	12.70	4.76	0.80	●	1.00-4.00	0.10-0.35

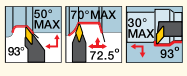
• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: A/S-PCLNR/L • A/S-PCLNR/L-X/G • C#-PCLNR/L-12-JHP • C#-PCLNR/L-X • C#-PCLNR/L-X-JHP • PCBNR/L • PCLNR/L • PCLNR/L-12-JHP • PCLNR/L-X • PCLNR/L-X-JHP • PCLNR/L-X-JHP-MC

ISOTURN

VNMS-12
35° Rhombic Single-Sided Inserts for Soft and Nonferrous Materials





Designation	Dimensions L	IC	S	RE	IC20	Recommended Machining Data a_p (mm)	f (mm/rev)
VNMS 160404-12	16.60	9.52	4.76	0.40	●	1.00-3.00	0.07-0.30
VNMS 160408-12	16.60	9.52	4.76	0.80	●	1.00-3.50	0.07-0.33

• For user guide and cutting speed recommendations, see pages 122-134, 236-254

Tools: MVJNR/L • MVVNN