

# New Product Announcement

NPAI-2109

## New Positive Insert for Stainless steel



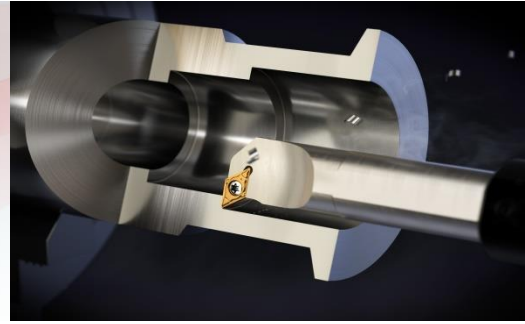
YG-1 introduce New positive Chip breaker MF and MM which are machining on stainless steel. These chip breakers are now available in YG-1





# New Product Announcement

YG-1 is now expanding their use to cover the range of positive Inserts. These geometries had been optimized for performance on CCMT, DCMT, TCMT, SCMT and VCMT.

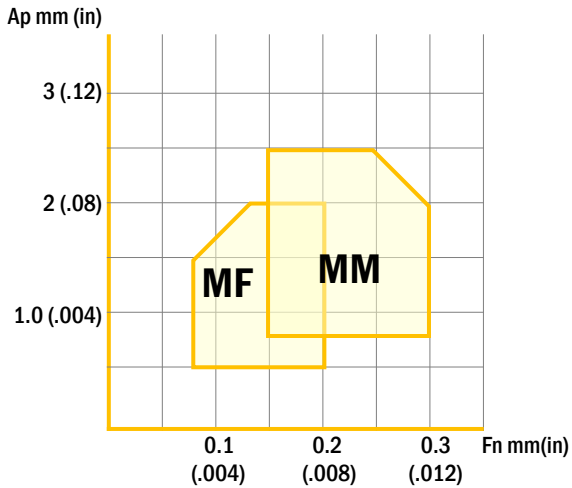


## Information of Geometry

### Feature

#### Positive Chip breakers

Insert : CCMT09T308



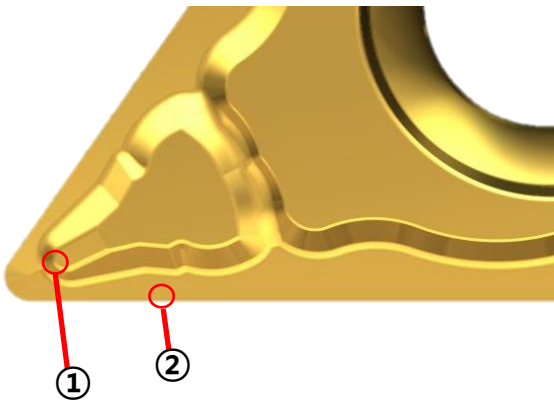
### Applicable Component



- Positive Insert for Stainless steel
- Recommended internal Turning Application on Stainless steel machining.
- Recommended for small part machining like valve, hydraulic application and Medical industry

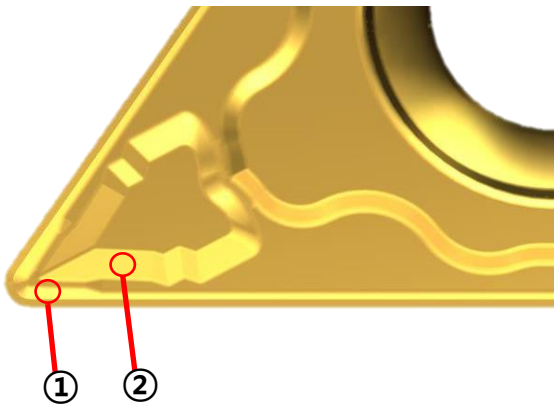
## GTURN Information of Geometry

### Feature of MF



- MF for finishing
- ① Excellent chip controlling at low feed rate and small depth of cut
- ② Positive rake angle for smooth Cutting and reduced cutting forces.
- ③ 0.2 Corner radius is available

### Feature of MM



- MM for medium
- ① Unique land design for cutting edge protection and increase rigid.
- ② Optimized chip breaker for medium operation of stainless steel

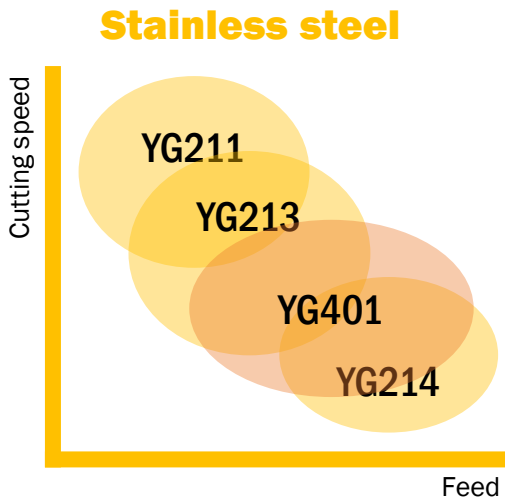
### Detail of Geometry

MF		MM	
Chip breaker	Cutting edge	Chip breaker	Cutting edge
	 CCMT-MF		 CCMT-MM



## Information of Grade

### Grade Chart



#### **YG211 PVD**

High Wear Resistance Grade

#### **YG213 PVD**

First Choice of General Stainless Steel

#### **YG401 PVD**

First Choice of General HRSA  
(General can be used on Stainless steel)

#### **YG214 PVD**

High Toughness Grade



## YGTURN

## Performance

### Success Story

#### Case 1

- **Component Name:** Defense component
- **Work-Piece Material:** 303 Stainless steel
- **Existing Insert:** CCMT09T304, Finishing Range, M25 PVD Grade
- **Test Insert:** CCMT09T304-MF YG213
- **Test Result**

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG213	Competitor
63	0.07	0.5	Wet	Finishing	<b>22</b>	20

10% Better



## YGTURN

## Performance

### Success Story

#### Case 2

- **Component Name:** Machining component
- **Work-Piece Material:** 304 Stainless steel
- **Existing Insert:** CCMT09T304, Medium Range, M35 PVD Grade
- **Test Insert:** CCMT09T304-MM YG213
- **Test Result**

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG213	Competitor
82	0.15	1	Wet	General Turning	<b>16</b>	15

**6% Better**




## GTURN


## Item list

### Insert List

●: Stock Item

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MF				
	EDP 2200..			
Designation ISO	YG401	YG211	YG213	YG214
CCMT09T302	○ 2028	● 2002	● 2003	● 2004
CCMT09T304	○ 2029	● 1589	● 1590	● 1947
CCMT09T308	○ 1943	● 1957	● 1958	● 1959
DCMT070204	○ 2030	● 1978	● 1979	● 1980
DCMT11T302	○ 2031	● 2005	● 2006	● 2007
DCMT11T304	○ 2032	● 1885	● 1886	● 1927
DCMT11T308	○ 2033	● 1963	● 1964	● 1965
TCMT16T304	○ 2034	● 1981	● 1982	● 1983
TCMT16T308	○ 2026	● 1966	● 1967	● 1968
VCMT110304	○ 2035	● 2014	● 2015	● 2016
VBMT160402	○ 2036	● 2008	● 2009	● 2010
VBMT160404	○ 2037	● 1960	● 1961	● 1962
VBMT160408	○ 2038	● 2011	● 2012	● 2013

MM				
	EDP 2200..			
Designation ISO	YG401	YG211	YG213	YG214
CCMT09T304	○ 2039	● 1591	● 1592	● 1946
CCMT09T308	○ 1944	● 1887	● 1888	● 1956
DCMT070204	○ 2040	● 1999	● 2000	● 2001
DCMT11T304	○ 2041	● 1990	● 1991	● 1992
DCMT11T308	○ 2042	● 1984	● 1985	● 1986
SCMT120408	○ 1976	● 1973	● 1974	● 1975
TCMT16T304	○ 2043	● 1993	● 1994	● 1995
TCMT16T308	○ 1955	● 1952	● 1953	● 1954
VBMT160404	○ 2044	● 1996	● 1997	● 1998
VBMT160408	○ 2045	● 1987	● 1988	● 1989

※ will be stocked end of 2021