

# New Product Announcement

NPAI-2110

## New Positive Insert for Super Finishing Application



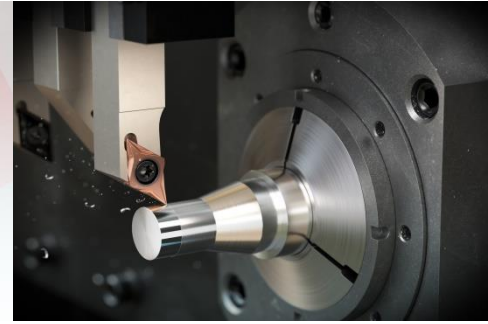
**SF**  
Chip breaker

A new positive SF turning chip breaker is now available for machining small components.



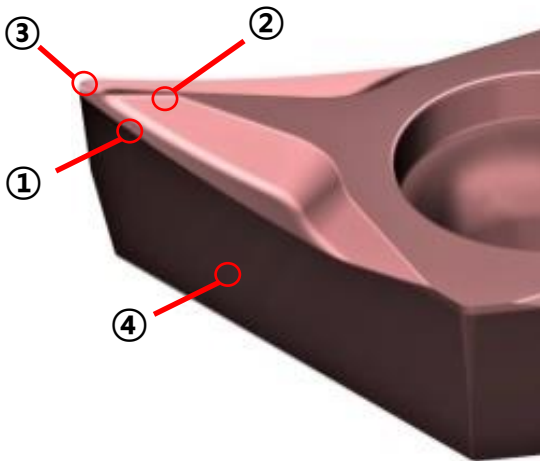


## For Super Finishing Positive Insert



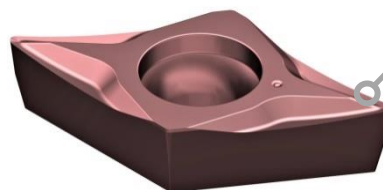
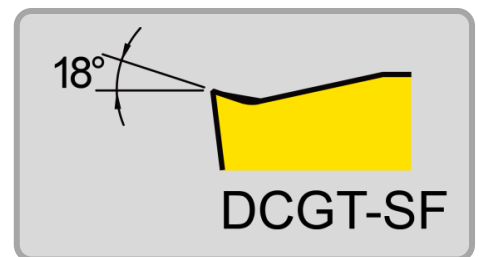
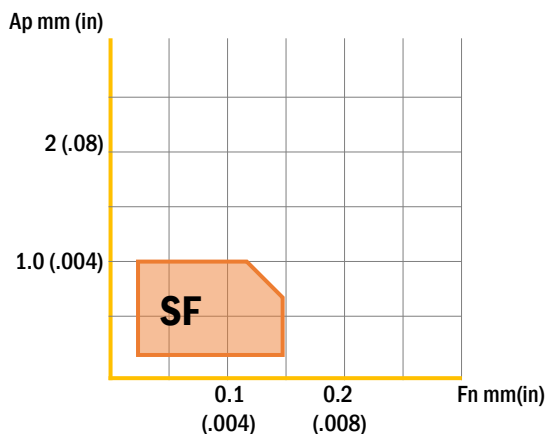
## Information of Geometry

### Feature of Chip breaker



- ① High positive rake angle reduces cutting force and minimizes burr and built up edge
- ② Optimized super finishing for small components in Swiss turning machine and excellent chip breaking at low feed rate & small depth of cut
- ③ Insert corner radius range available from 0.1mm to 0.8mm
- ④ High precision tolerance Insert for periphery grinding

### Range of Chip breaker





## YGTURN Information of Geometry

### Applicable Component

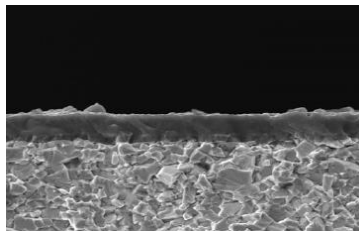
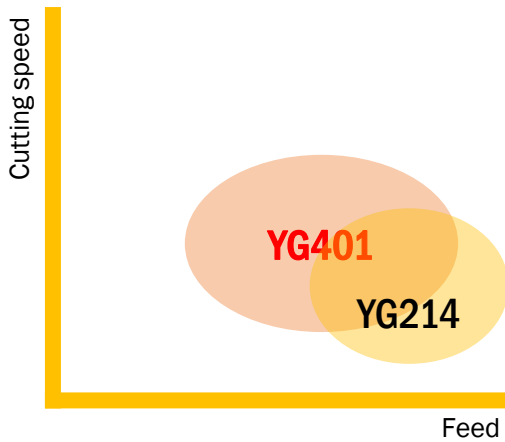
Medical component



- Suitable for Stainless steel, Super Alloy material
- Recommended for small part machining such as valve, hydraulic application and Medical industry

### Grade Chart

#### Super Alloy steel



#### YG401 PVD

First Choice of General HRSA & Stainless steel



## YGTURN

## Performance

### Success Story

#### Case 1

- **Component Name:** Automotive injection
- **Work-Piece Material:** 316L Stainless steel
- **Existing Insert:** DCGT11T304 Finishing, PVD Coating
- **Test Insert:** DCGT11T304-SF YG401
- **Test Result**

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG401	Competitor
66	0.25	0.5	Wet	Finishing	<b>12,300</b>	6,000

105% Better



## YGTURN

## Performance

### Success Story

#### Case 2

- Component Name: Valve
- Work-Piece Material: 316 Stainless steel
- Existing Insert: DCGT11T304 Medium-Roughing, PVD Coating
- Test Insert: DCGT11T304-SF YG401
- Test Result

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG401	Competitor
150	0.06	0.5	Wet	Finishing	<b>100</b>	80

25% Better



## YGTURN

## Performance

### Success Story

#### Case 3

- **Component Name:** Automotive Pin
- **Work-Piece Material:** 316 Stainless steel
- **Existing Insert:** DCGT11T304 PVD Coating
- **Test Insert:** DCGT11T304-SF YG401
- **Test Result**

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG401	Competitor
98	0.1	0.1	Wet	Finishing	<b>1,200</b>	1,000

20% Better



## YGTURN

## Performance

### Success Story

#### Case 4

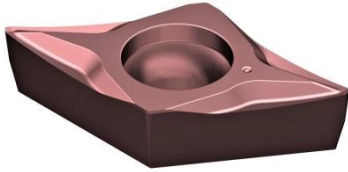
- **Component Name:** Automotive Shaft
- **Work-Piece Material:** 0.45% Carbon Steel
- **Existing Insert:** DCMT11T304 Medium, CVD Coating
- **Test Insert:** DCGT11T304-SF YG401
- **Test Result**

Vc (m/min)	Fn (mm/rev)	Ap (mm)	Coolant	Operation	Tool Life (pcs/edge)	
					YG401	Competitor
150	0.06	0.5	Wet	Finishing	<b>5,000</b>	1,240

303% Better

### Insert List

SF



●: Stock Item

Designation		EDP 2200..	
ISO	ANSI	YG401	
CCGT060201	CCGT21.50	●	2065
CCGT060202	CCGT21.50.5	●	2066
CCGT060204	CCGT21.51	●	2067
CCGT09T301	CCGT32.50	●	2071
CCGT09T302	CCGT32.50.5	●	2072
CCGT09T304	CCGT32.51	●	2073
CCGT09T308	CCGT32.52	●	2074
DCGT070201	DCGT21.50	●	2068
DCGT070202	DCGT21.50.5	●	2069
DCGT070204	DCGT21.51	●	2070

Designation ISO		EDP 2200..	
ISO	ANSI	YG401	
DCGT11T301	DCGT32.50	●	2075
DCGT11T302	DCGT32.50.5	●	1474
DCGT11T304	DCGT32.51	●	1463
DCGT11T308	DCGT32.52	●	2076
VCGT110301	VCGT220	●	2077
VCGT110302	VCGT220.5	●	1481
VCGT110304	VCGT221	●	2078
VCGT110308	VCGT222	●	2079

● All Stocks are available

If you need further information or questions, please contact Headquarter PM :

Mr. Kevin Shin([sooyong.shin@yg1.co.kr](mailto:sooyong.shin@yg1.co.kr)), Mr. Chris Lee([hwasu.lee@yg1.co.kr](mailto:hwasu.lee@yg1.co.kr)),  
Mr. George Cho([junho.cho@yg1.co.kr](mailto:junho.cho@yg1.co.kr))

And also your Global PM Dr. Robert Damaschek([damaschek@yg-1.de](mailto:damaschek@yg-1.de)) for EMEA,  
Mr. Jan Andersson([janandersson@yg1usa.com](mailto:janandersson@yg1usa.com)) for America.