



Grades for small parts machining

SH7025

Tungaloy Report No. 561-G

Superior surface quality and process security in small part machining







SH7025



Cutting edge sharpness is maintained over a long period of time,
providing light cutting and excellent surface finish

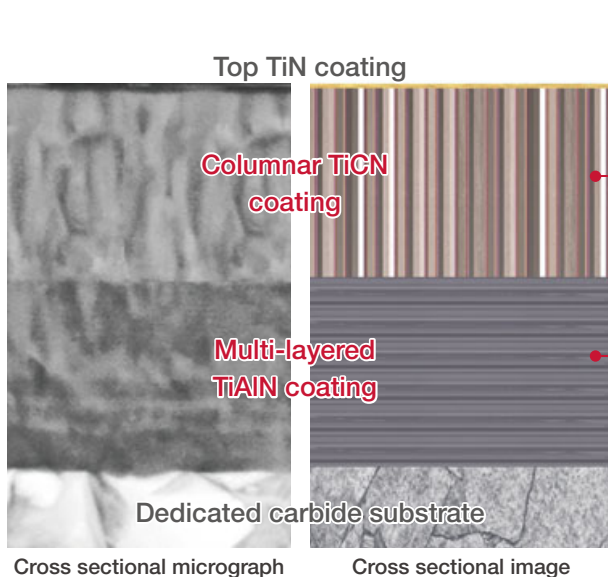
New insert grade for high surface quality



SH7025

- The latest grade with sharp cutting edge designed for small part machining.
- A combination of a columnar-structured TiCN coating and multilayered TiAlN coating provides superior surface quality and process security.

Designed to prevent built-up edge, wear, and edge chipping, SH7025 provides long, predictable tool life and superior surface quality



1 For high surface quality

Built-up edge resistant TiCN coating improves surface finish quality.

2 For extremely long tool life

Wear-resistant columnar-structured TiCN coating ensures long tool life.

3 For superior process security

Chipping-resistant multi-layered TiAlN coating provides process security.

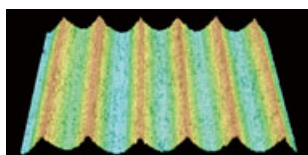
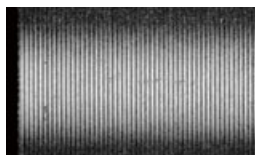
1 For high surface quality

Built-up edge resistant TiCN coating improves surface finish quality

SH7025



O.D. surface quality



Actual image

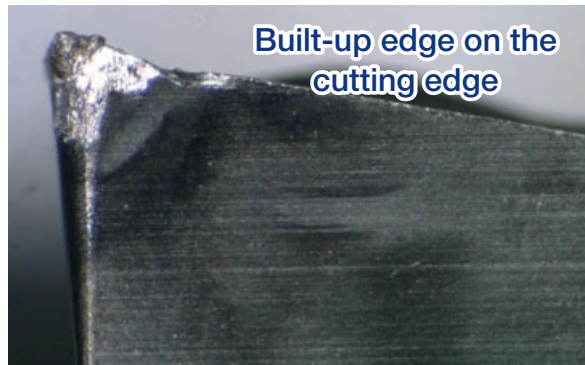
3D surface profile

Surface roughness chart

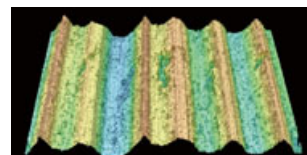
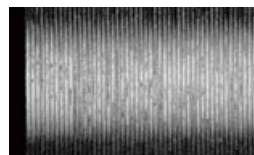


High quality surface finish!

Conventional



O.D. surface quality



Actual image

3D surface profile

Surface roughness chart



Poor surface quality due to built-up edge

2 Extremely long tool life

Wear-resistant columnar-structured TiCN coating ensures long tool life

SH7025



Columnar-structured TiCN coating slows wear progression



Extended tool life

Maintains excellent surface quality
with no part scraps

Conventional



Rapid flank wear progression

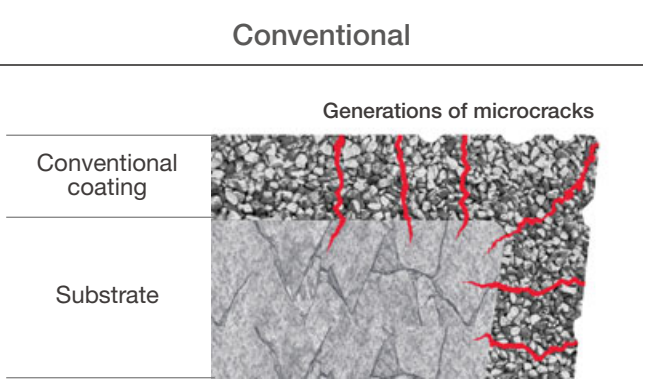
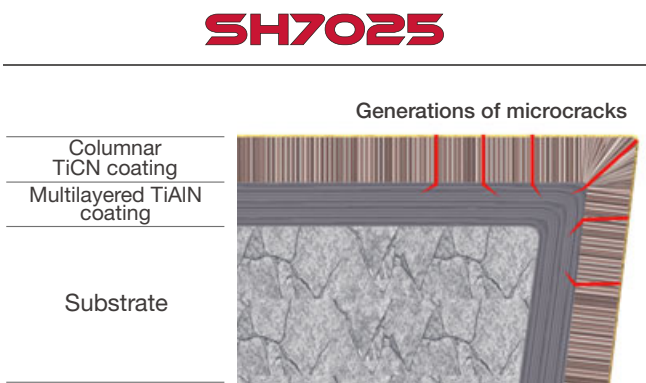


**Poor surface quality,
creating a pile of part scraps**

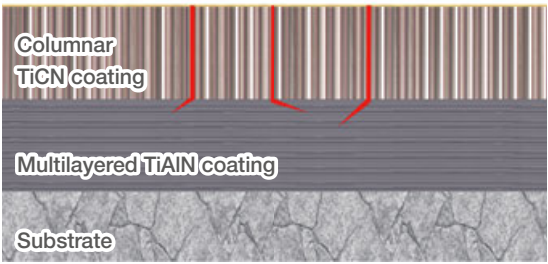
SH7025

3 Superior process security

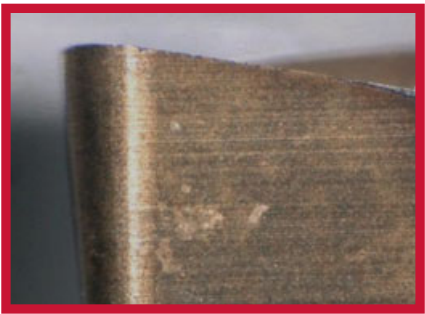
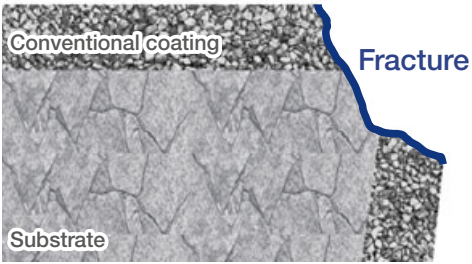
Chipping-resistant multi-layered TiAlN coating provides process security.



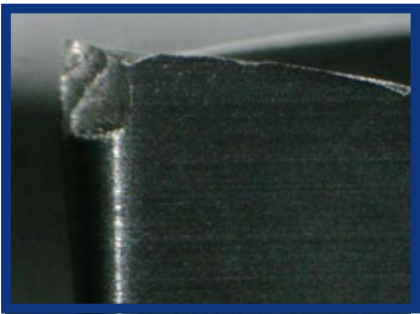
TiAlN coating prevents cracks from further propagation



Crack reaches the substrate causing catastrophic failure



Eliminates fractures and provides security



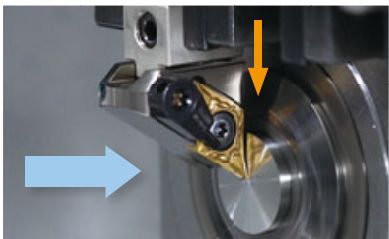
Catastrophic failure

CUTTING PERFORMANCE

3D surface profiling analysis

Face turning

Below images
are viewed in
this direction



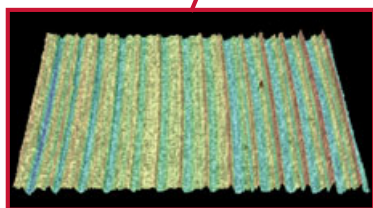
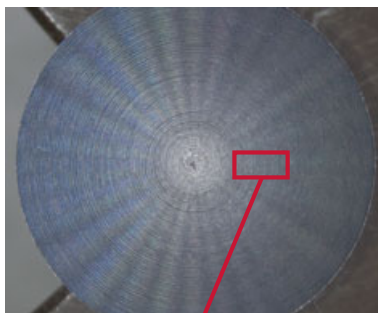
Case 1

P SUJ2 / 100Cr6

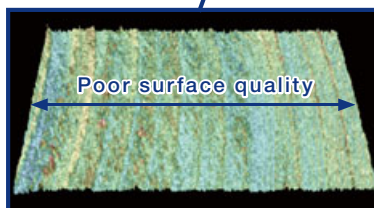
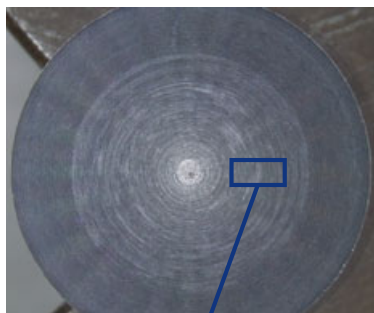
Insert : DCGT11T302 type
Cutting speed : $V_c = 150$ m/min
Feed : $f = 0.05$ mm/rev
Depth of cut : $a_p = 0.3$ mm
Coolant : Wet

Provides high quality
surface finish

SH7025



Conventional



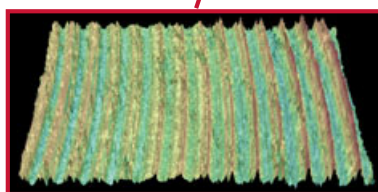
Case 2

M SUS316L /
X2CrNiMo17-12-2

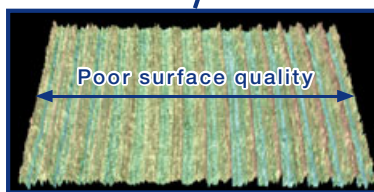
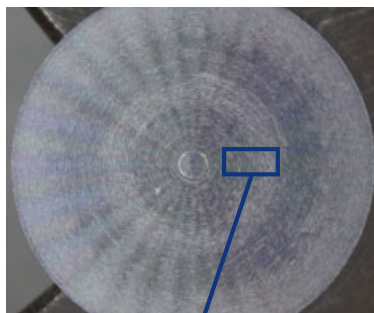
Insert : DCGT11T302 type
Cutting speed : $V_c = 100$ m/min
Feed : $f = 0.05$ mm/rev
Depth of cut : $a_p = 0.3$ mm
Coolant : Wet

Provides high quality
surface finish

SH7025



Conventional

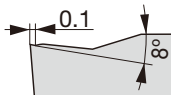


3D pressed-in chipbreaker series dedicated for turning small parts

Now available in SH7025 to ensure consistent and reliable chip control

New

JP First choice chipbreaker for high precision finishing



Eliminates chip nesting and other chip-associated issues that impede the shop's productivity and provides stable chip breaking over a wide range of feed rates and D.O.C.

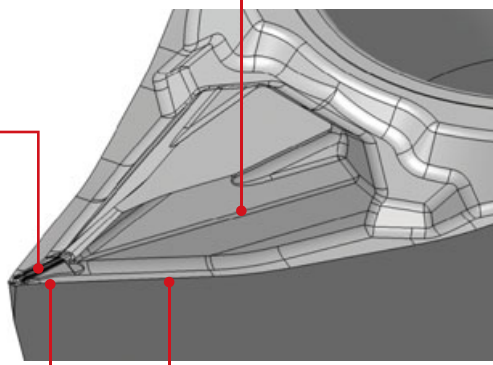
- Effective chip breaking for high part quality
- Versatile geometry designed for a broad application range
- Eliminates burr generation and controls vibration during aggressive D.O.C.

Secondary rake with multiple facets

Guides and redirects chips generated during machining at great cutting depths

A protrusion extending towards the nose radius

Provides excellent chip control in finish to super-finish cutting



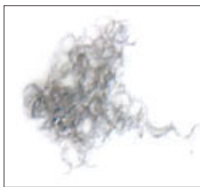
Cutting edge with a steep inclination angle

- For better chip evacuation
- For reduced cutting loads

Primary rake with variable angles

Controls the generation of burrs and vibration when machining at a maximum cutting depth capability

■ Chip control

JP	Competitor	JP	Competitor	JP	Competitor
					
P Insert : DCGT11T301FN-JP Workpiece material : S45C / C45 Cutting speed : Vc = 80 m/min Feed : f = 0.02 mm/rev Depth of cut : ap = 0.5 mm Coolant : Wet		P Insert : DCGT11T301FN-JP Workpiece material : S45C / C45 Cutting speed : Vc = 80 m/min Feed : f = 0.03mm/rev Depth of cut : ap = 3 mm Coolant : Wet		M Insert : DCGT11T301FN-JP Workpiece material : SUS304 / X5CrNi18-9 Cutting speed : Vc = 80 m/min Feed : f = 0.03 mm/rev Depth of cut : ap = 0.05 mm Coolant : Wet	

JP chipbreaker provides superior chip control over a broad range of applications from super-finishing with light D.O.C. to aggressive cutting depth.

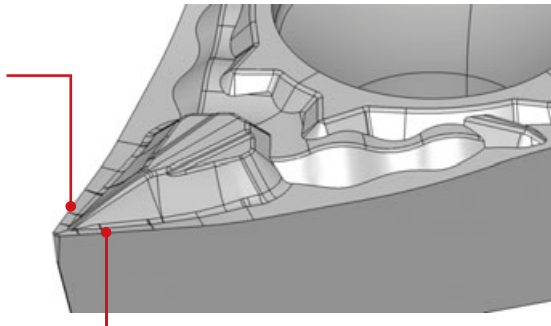
JS First choice chipbreaker for finish cutting



Chipbreaker geometry that allows light cutting action and excellent chip breaking

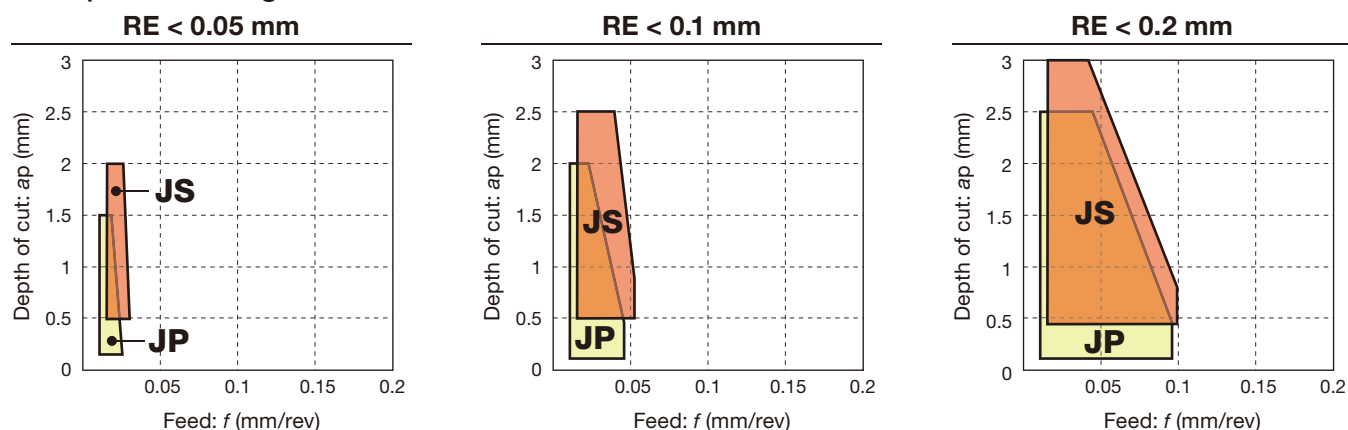
- A steep cutting edge inclination angle for better chip control and reduced cutting load
- A unique protrusion that extends towards the radius effectively controls chip flow from small to large cutting depths

Cutting edge with a steep inclination angle
Provides good chip evacuation and reduced cutting loads



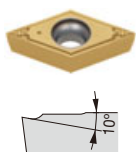
Rake with variable angles and steep protrusion
Provides stable chip control in the small to large cutting depth range and also maintains cutting edge integrity and sharpness over extended period of time

■ Chip control range

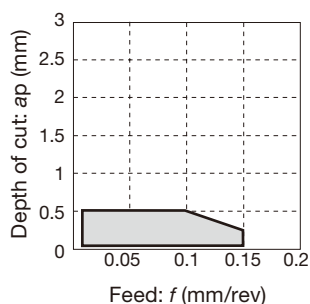


■ Complementary chipbreakers

01



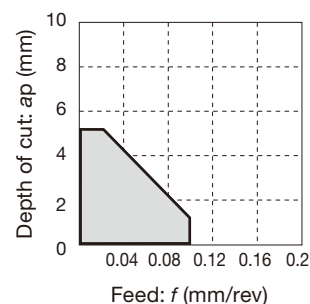
Pressed-in chipbreaker for high part quality that provides good chip control in the light D.O.C. range.



J10



Ground-in chipbreaker that demonstrates good chip control when machining at varying cutting depths.



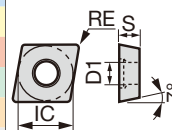
STANDARD CUTTING CONDITIONS

ISO	Workpiece material	Chip-breaker	Grade	Cutting speed Vc (m/min)	Depth of cut ap (mm)	Feed: f (mm/rev)			
						RE < 0.03	RE < 0.1	RE < 0.2	RE < 0.4
P	Carbon steel Alloy steel	JP	SH7025	10 - 200	0.05 - 2.5	0.02 - 0.03	0.02 - 0.05	0.02 - 0.1	-
		JS	SH7025	10 - 200	0.5 - 3	0.02 - 0.03	0.02 - 0.05	0.02 - 0.1	0.05 - 0.2
M	Stainless steel	JP	SH7025	10 - 200	0.05 - 2.5	0.02 - 0.03	0.02 - 0.05	0.02 - 0.1	-
		JS	SH7025	10 - 200	0.5 - 3	0.02-0.03	0.02-0.05	0.02-0.1	0.05-0.2

- : Continuous cutting
- ◐ : Light interrupted cutting
- ⊗ : Heavy interrupted cutting



**Rhombic, 80°
with hole
Positive 7°**

[illegible]

Application	Chipbreaker	Designation	Material		Coated																	Dimension (mm)			
			SH7025																		RE	IC	S	D1	
Finishing (sharp edge)		J10	CCGT060200FR-J10	●																0.03	6.35	2.38	2.8		
			CCGT060201FR-J10	●																	0.1	6.35	2.38	2.8	
			CCGT060202FR-J10	●																	0.2	6.35	2.38	2.8	
			CCGT060202FL-J10	●																	0.2	6.35	2.38	2.8	
			CCGT09T300FR-J10	●																	0.03	9.525	3.97	4.4	
			CCGT09T301FR-J10	●																	0.1	9.525	3.97	4.4	
			CCGT09T302FR-J10	●																	0.2	9.525	3.97	4.4	
			CCGT09T302FL-J10	●																	0.2	9.525	3.97	4.4	

● : New

Insert POSITIVE TYPE

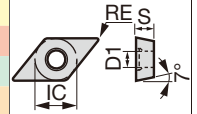
● : Continuous cutting
● : Light interrupted cutting
✱ : Heavy interrupted cutting

DC

Rhombic, 55°
with hole
Positive 7°



P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Precision finishing (sharp edge)		JP DCGT070200FN-JP	●										<0.05	6.35	2.38	2.8
		DCGT070201FN-JP	●										<0.1	6.35	2.38	2.8
		DCGT070202FN-JP	●										<0.2	6.35	2.38	2.8
		DCGT11T300FN-JP	●										<0.05	9.525	3.97	4.4
		DCGT11T301FN-JP	●										<0.1	9.525	3.97	4.4
		DCGT11T302FN-JP	●										<0.2	9.525	3.97	4.4
		01 DCGT070202F-01	●										<0.2	6.35	2.38	2.8
		DCGT070204F-01	●										<0.4	6.35	2.38	2.8
		DCGT11T302F-01	●										<0.2	9.525	3.97	4.4
		DCGT11T304F-01	●										<0.4	9.525	3.97	4.4
Finishing (sharp edge)		JS DCGT070200FN-JS	●										<0.05	6.35	2.38	2.8
		DCGT070201FN-JS	●										<0.1	6.35	2.38	2.8
		DCGT070202FN-JS	●										<0.2	6.35	2.38	2.8
		DCGT11T300FN-JS	●										<0.05	9.525	3.97	4.4
		DCGT11T301FN-JS	●										<0.1	9.525	3.97	4.4
		DCGT11T302FN-JS	●										<0.2	9.525	3.97	4.4
		DCGT11T304FN-JS	●										<0.4	9.525	3.97	4.4
Finishing (sharp edge)		J10 DCGT070200FR-J10	●										0.03	6.35	2.38	2.8
		DCGT070201FR-J10	●										0.1	6.35	2.38	2.8
		DCGT070202FR-J10	●										0.2	6.35	2.38	2.8
		DCGT070202FL-J10	●										0.2	6.35	2.38	2.8
		DCGT070204FR-J10	●										0.4	6.35	2.38	2.8
		DCGT070204FL-J10	●										0.4	6.35	2.38	2.8
		DCGT11T300FR-J10	●										0.03	9.525	3.97	4.4
		DCGT11T301FR-J10	●										0.1	9.525	3.97	4.4
		DCGT11T302FR-J10	●										0.2	9.525	3.97	4.4
		DCGT11T302FL-J10	●										0.2	9.525	3.97	4.4

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

Insert POSITIVE TYPE

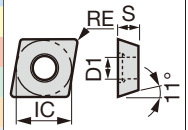
● : Continuous cutting
● : Light interrupted cutting
✱ : Heavy interrupted cutting

EP



Rhombic, 75°
with hole
Positive 11°

P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●



Application	Chipbreaker		Coated																Dimension (mm)			
	Designation		SH7025																RE	IC	S	D1
Finishing (sharp edge)		JS EPGT03X101F-JS	●																<0.1	3.57	1.39	1.9
		EPGT03X102F-JS	●																<0.2	3.57	1.39	1.9
		EPGT03X104F-JS	●																<0.4	3.57	1.39	1.9
		EPGT040101F-JS	●																<0.1	3.97	1.59	2.3
		EPGT040102F-JS	●																<0.2	3.97	1.59	2.3
		EPGT040104F-JS	●																<0.4	3.97	1.59	2.3
Finishing (sharp edge)		J08 EPGT040102FL-J08	●																0.2	3.97	1.59	2.3
		EPGT040104FL-J08	●																0.4	3.97	1.59	2.3
Finishing (sharp edge)		W08 EPGT03X100FL-W08	●																0.03	3.57	1.39	1.9
		EPGT03X101FL-W08	●																0.1	3.57	1.39	1.9
		EPGT03X102FL-W08	●																0.2	3.57	1.39	1.9
		EPGT03X102FR-W08	●																0.2	3.57	1.39	1.9
		EPGT03X104FL-W08	●																0.4	3.57	1.39	1.9
		EPGT03X104FR-W08	●																0.4	3.57	1.39	1.9
		EPGT040100FL-W08	●																0.03	3.97	1.59	2.3
		EPGT040101FL-W08	●																0.1	3.97	1.59	2.3
		EPGT040102FL-W08	●																0.2	3.97	1.59	2.3
		EPGT040102FR-W08	●																0.2	3.97	1.59	2.3
		EPGT040104FL-W08	●																0.4	3.97	1.59	2.3
		EPGT040104FR-W08	●																0.4	3.97	1.59	2.3

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

Insert POSITIVE TYPE

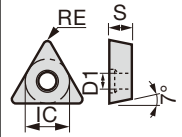
● : Continuous cutting
● : Light interrupted cutting
✱ : Heavy interrupted cutting

TC



Triangular
with hole
Positive 7°

P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●



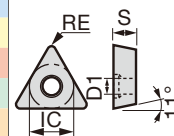
Application	Chipbreaker	Designation	Coated																Dimension (mm)			
			SH7025																RE	IC	S	D1
Precision finishing (sharp edge)		JP TCGT110200FN-JP	●																<0.05	6.35	2.38	2.8
		TCGT110201FN-JP	●																<0.1	6.35	2.38	2.8
		TCGT110202FN-JP	●																<0.2	6.35	2.38	2.8
		O1 TCGT110202F-O1	●																<0.2	6.35	2.38	2.8
		TCGT110204F-O1	●																<0.4	6.35	2.38	2.8
Finishing (sharp edge)		JS TCGT110200FN-JS	●																<0.05	6.35	2.38	2.8
		TCGT110201FN-JS	●																<0.1	6.35	2.38	2.8
		TCGT110202FN-JS	●																<0.2	6.35	2.38	2.8
		TCGT110204FN-JS	●																<0.4	6.35	2.38	2.8
Finishing (sharp edge)		J08 TCGT080200FR-J08	●																0.03	4.76	2.38	2.3
		TCGT080201FR-J08	●																0.1	4.76	2.38	2.3
		TCGT080202FR-J08	●																0.2	4.76	2.38	2.3
		TCGT080202FL-J08	●																0.2	4.76	2.38	2.3
		TCGT080204FR-J08	●																0.4	4.76	2.38	2.3
		J10 TCGT110200FR-J10	●																0.03	6.35	2.38	2.8
		TCGT110201FR-J10	●																0.1	6.35	2.38	2.8
		TCGT110202FR-J10	●																0.2	6.35	2.38	2.8
		TCGT110202FL-J10	●																0.2	6.35	2.38	2.8
		TCGT110204FR-J10	●																0.4	6.35	2.38	2.8
		TCGT110300FR-J10	●																0.03	6.35	3.18	2.8
		TCGT110301FR-J10	●																0.1	6.35	3.18	2.8
		TCGT110302FR-J10	●																0.2	6.35	3.18	2.8
		TCGT110302FL-J10	●																0.2	6.35	3.18	2.8

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

- : Continuous cutting
- ◐ : Light interrupted cutting
- ⊕ : Heavy interrupted cutting

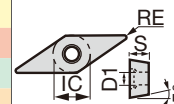
Triangular
with hole
Positive 11°

[illegible]

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

**Rhombic, 35°
with hole
Positive 5°**

[illegible]

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

Insert POSITIVE TYPE

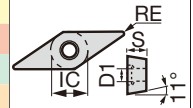
● : Continuous cutting
● : Light interrupted cutting
✱ : Heavy interrupted cutting

VP

35° Rhombic
with hole
Positive 11°



P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Precision finishing (sharp edge)		JP	VPGT110300FN-JP	●									<0.05	6.35	3.18	2.8
			VPGT110301FN-JP	●									<0.1	6.35	3.18	2.8
			VPGT110302FN-JP	●									<0.2	6.35	3.18	2.8
Finishing (sharp edge)		JS	VPGT110300FN-JS	●									<0.05	6.35	3.18	2.8
			VPGT110301FN-JS	●									<0.1	6.35	3.18	2.8
			VPGT110302FN-JS	●									<0.2	6.35	3.18	2.8
			VPGT110304FN-JS	●									<0.4	6.35	3.18	2.8

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

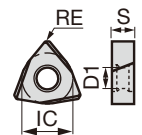
● : New

WB

Trigon, 80°
with hole
Positive 5°



P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Finishing (sharp edge)		JS	WBG030101FR-JS	●									<0.1	3.97	1.59	2.3
			WBG030101FL-JS	●									<0.1	3.97	1.59	2.3
			WBG030102FR-JS	●									<0.2	3.97	1.59	2.3
			WBG030102FL-JS	●									<0.2	3.97	1.59	2.3
			WBG030104FR-JS	●									<0.4	3.97	1.59	2.3
			WBG030104FL-JS	●									<0.4	3.97	1.59	2.3
Finishing (sharp edge)		W08	WBG030100FL-W08	●									0.03	3.97	1.59	2.3
			WBG030101FL-W08	●									0.1	3.97	1.59	2.3
			WBG030102FL-W08	●									0.2	3.97	1.59	2.3
			WBG030102FR-W08	●									0.2	3.97	1.59	2.3
			WBG030104FL-W08	●									0.4	3.97	1.59	2.3
			WBG030104FR-W08	●									0.4	3.97	1.59	2.3

Corner radius (RE) with a sign of inequality (<) means minus tolerance.

● : New

Insert POSITIVE TYPE

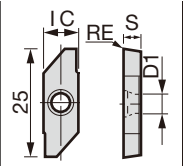
● : Continuous cutting
● : Light interrupted cutting
✱ : Heavy interrupted cutting

JXF



Front turning

P	Steel	●●
M	Stainless	●●
K	Cast iron	
N	Non-ferrous	
S	Superalloy	
H	Hard material	



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Front turning	-	JXFR8000F	●										0.03	8	3.97	4.4
		JXFR8010F	●										0.1	8	3.97	4.4

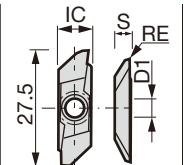
● : New

JXB



Back turning

P	Steel	●●
M	Stainless	●●
K	Cast iron	
N	Non-ferrous	
S	Superalloy	
H	Hard material	



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Back turning	-	JXBR8000F	●										0.03	8	3.97	4.4
		JXBR8005F	●										0.05	8	3.97	4.4
		JXBR8010F	●										0.10	8	3.97	4.4
		JXBR8015F	●										0.15	8	3.97	4.4

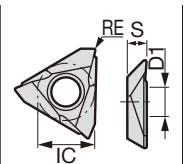
● : New

JTB



Back turning

P	Steel	●●
M	Stainless	●●
K	Cast iron	
N	Non-ferrous	
S	Superalloy	
H	Hard material	



Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Back turning	-	JTBR3000F	●										0.03	9.5	3.18	4.4
		JTBR3005F	●										0.05	9.5	3.18	4.4
		JTBR3010F	●										0.10	9.5	3.18	4.4
		JTBR3015F	●										0.15	9.5	3.18	4.4

● : New

Insert POSITIVE TYPE

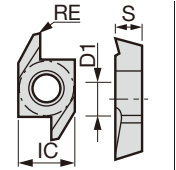
● : Continuous cutting
 ●● : Light interrupted cutting
 ●●● : Heavy interrupted cutting

J10E



Back turning

P	Steel	●●
M	Stainless	●●
K	Cast iron	●●
N	Non-ferrous	●●
S	Superalloy	●●
H	Hard material	●●

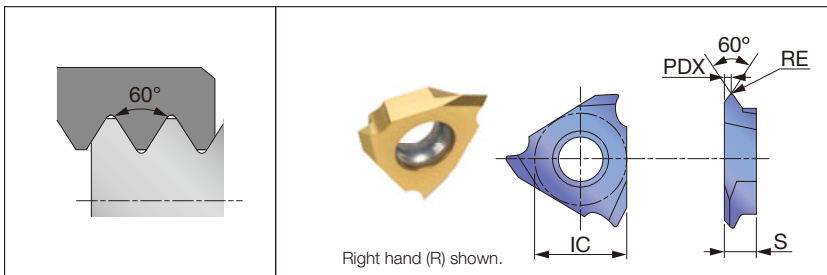


Application	Chipbreaker	Designation	Coated										Dimension (mm)			
			SH7025										RE	IC	S	D1
Back turning	-	J10ER005BF	●										0.05	6.35	3.18	3.0
		J10EL005BF	●										0.05	6.35	3.18	3.0
		J10ER010BF	●										0.10	6.35	3.18	3.0
		J10EL010BF	●										0.10	6.35	3.18	3.0
		J10EL015BF	●										0.15	6.35	3.18	3.0
		J10ER015BF	●										0.15	6.35	3.18	3.0

● : New

J-SERIES INSERT

60° thread angle



Applicable toolholder

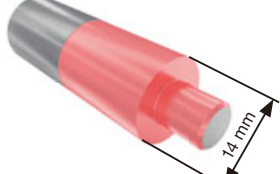
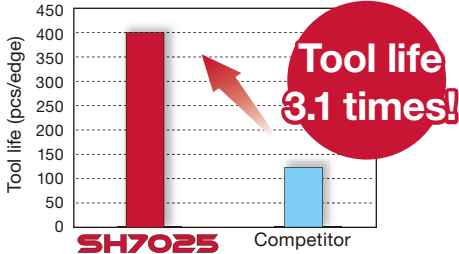
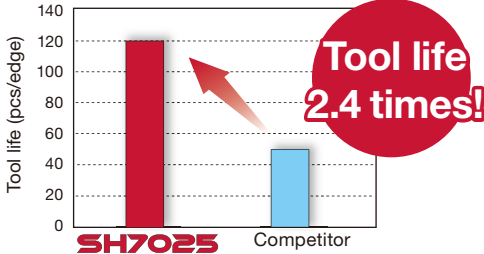
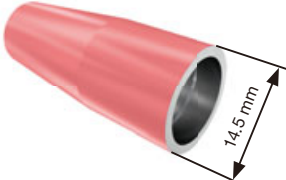
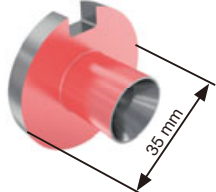
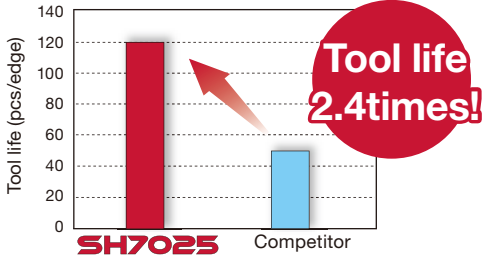
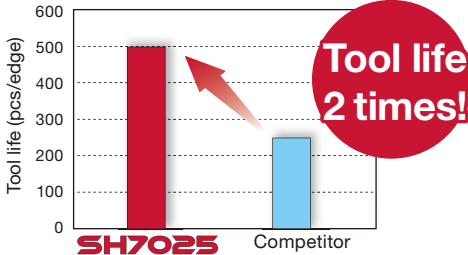
External
JSTTR**3

Partial-profile insert

Pitch	TPI	Hand of cut	External insert					
			Designation	Grade	IC	PDX	S	RE
				Coated				
0.5 - 1	25 - 48	R/L	JTTR3005F	SH7025	9.525	0.6	3.18	0.05
0.5 - 1	25 - 48	R/L	JTTR3010F	SH7025	9.525	1.1	3.18	0.1

● : New / 10 pieces per package

PRACTICAL EXAMPLES

Workpiece type		Guide for linear motion bearing	Spool pin
Insert		DCGT11T302FN-JP	DCGT11T302FN-JP
Grade		SH7025	SH7025
Workpiece material		SUS316	SCM415
			
Cutting conditions	Cutting speed: V_c (m/min)	150	150
	Feed : f (mm/rev)	0.03	0.03
	Depth of cut : a_p (mm)	0.1	0.05
	Machining	External and face turning	External and face turning
Coolant		Wet	Wet
Results		 SH7025 Competitor SH7025 grade insert eliminated built-up edge while substantially extending tool life.	 SH7025 Competitor SH7025 significantly prolonged tool life over the competitor grade with no part scraps.
Workpiece type		Pin	Flange
Insert		DCGT11T301FN-JP	DCGT11T302FN-JS
Grade		SH7025	SH7025
Workpiece material		SUS410 / X12Cr13	SUM23
			
Cutting conditions	Cutting speed: V_c (m/min)	90	140
	Feed : f (mm/rev)	0.05	0.03 - 0.05
	Depth of cut : a_p (mm)	0.5	3
	Machining	External turning	External and face turning
Coolant		Wet	Wet
Results		 SH7025 Competitor SH7025 eliminated insert fracture that caused part surface deterioration and provided long, predictable tool life.	 SH7025 Competitor SH7025 provided slower flank wear progression and eliminated part surface deterioration.

Other processing examples



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