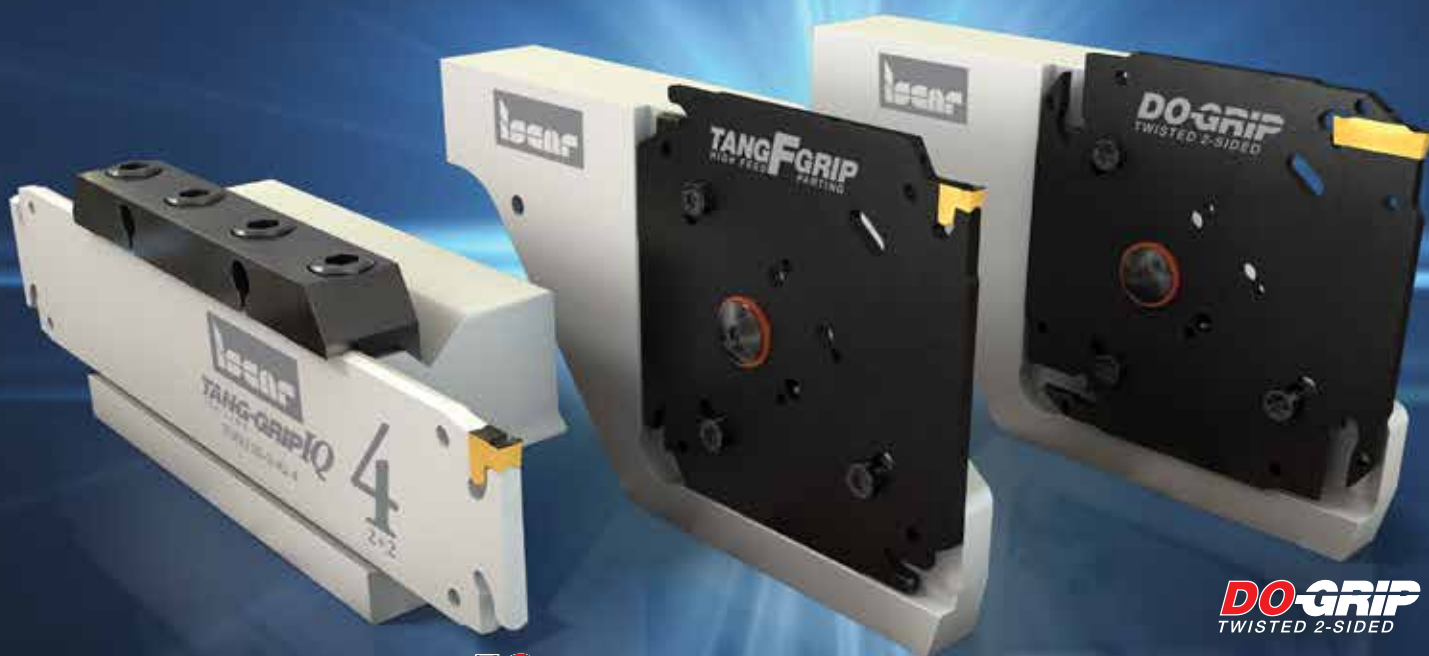


Imperial version

PARTING 4x FASTER

Pockets
Profitability
Productivity
Performance



TANG-GRIP IQ
350 LINE

TANG-FGRIP
HIGH FEED PARTING

DO-GRIP
TWISTED 2-SIDED

PARTING **4** x FASTER

Pockets
Profitability
Productivity
Performance

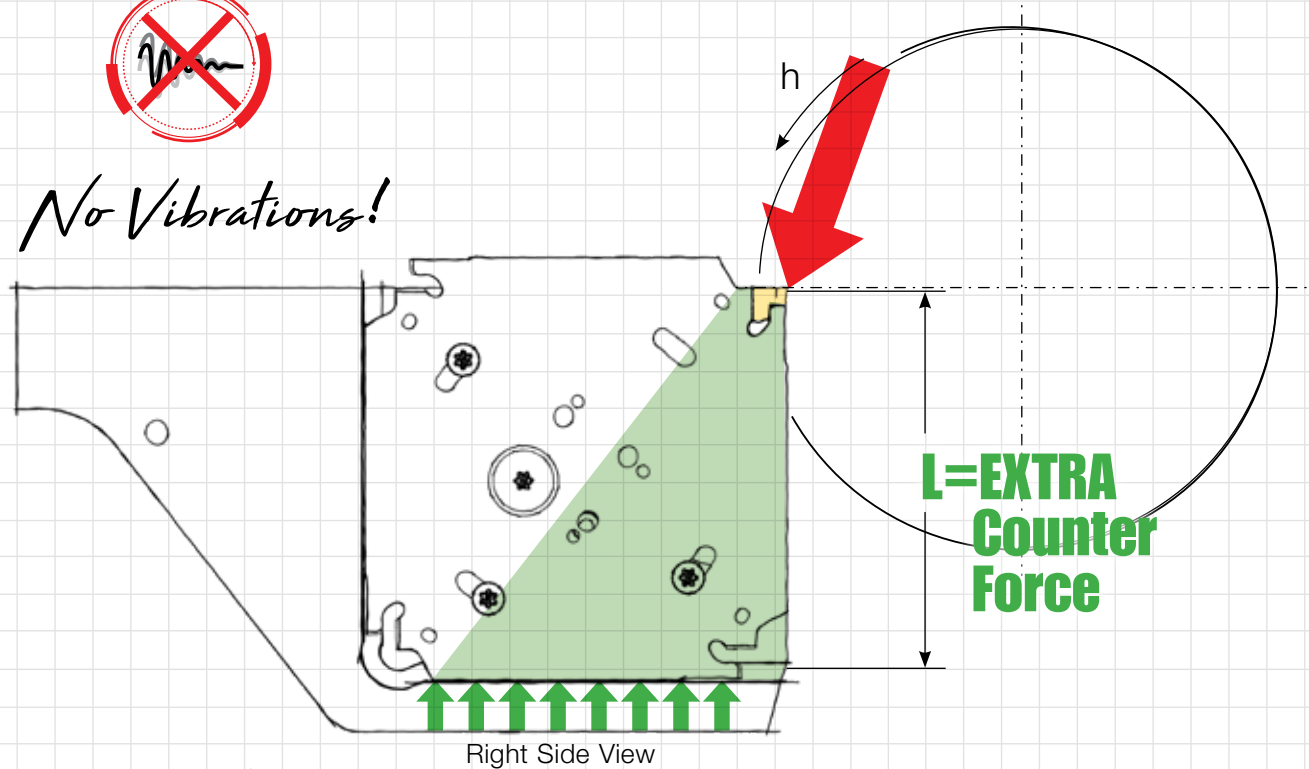
TANGFGRIP
HIGH FEED PARTING



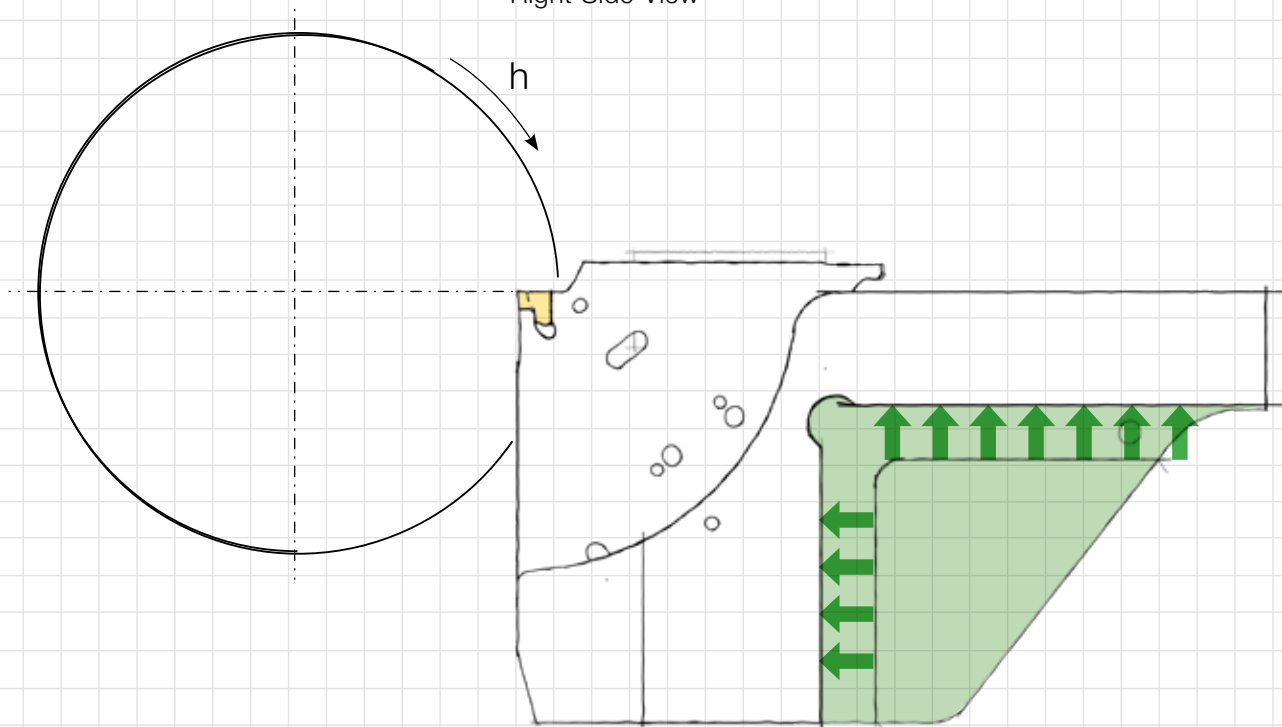
Reinforced and Robust Tool Provides Extra Stability and Higher Productivity



No Vibrations!



Right Side View



Left Side View

Robust Supporting Spinal System for Increased Feed and Unbeatable Tool Life

Parting with Extra Stability



TANG FGRIP
HIGH FEED PARTING

A Breakthrough in Parting Technology

and Higher Productivity

TANGFGRIP
HIGH FEED PARTING



The New Square Blade with the 4-Pocket Parting Concept Enables Mounting the Block on All Machine Types

- Vibration free, excellent surface finish and part straightness
- Parting up to 120mm diameter with minimum 3 mm insert width, leads to increased material savings
- Guaranteed higher productivity with HF (high feed) insert
- Enables mounting all types of TANG-GRIP inserts



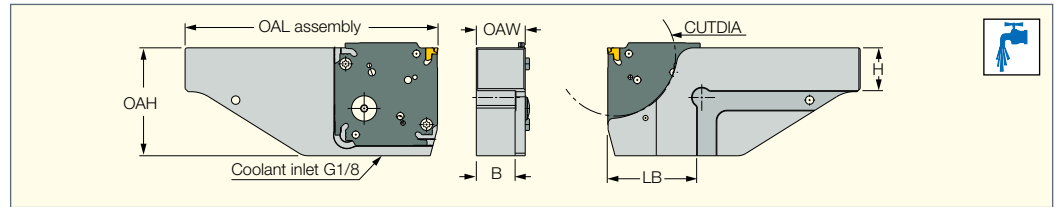
High Feed
Insert



Economical
4-Pocket Blade

TGTBQ-JHP

Tool Blocks for Parting and Grooving Square Blades for High Pressure Coolant

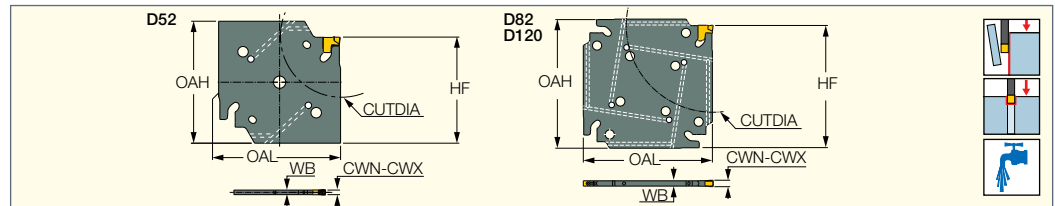


Designation	OAH	H	B	OAW	OAL	LB			CUTDIA
TGTBQ 19L-D52-JHP	1.97	.750	.728	.964	4.803	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 19R-D52-JHP	1.97	.750	.728	.964	4.803	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 25.4L-D52-JHP	1.97	1.000	.886	1.122	5.197	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 25.4R-D52-JHP	1.97	1.000	.886	1.122	5.197	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 19L-D82-JHP	2.52	.750	.728	.964	5.512	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 19R-D82-JHP	2.52	.750	.728	.964	5.512	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4L-D82-JHP	2.52	1.000	.886	1.122	5.906	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4R-D82-JHP	2.52	1.000	.886	1.122	5.906	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 31.8L-D82-JHP	2.52	1.250	1.122	1.358	5.925	2.106	T-20/5	SGC 340-Q	3.23
TGTBQ 31.8R-D82-JHP	2.52	1.250	1.122	1.358	5.925	2.106	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4L-D120-JHP	3.74	1.000	.886	1.122	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 25.4R-D120-JHP	3.74	1.000	.886	1.122	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 31.8L-D120-JHP	3.74	1.250	1.122	1.358	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 31.8R-D120-JHP	3.74	1.250	1.122	1.358	6.496	2.638	T-20/5	SGC 340-Q	4.72

• Suitable for all square blades, TANG-GRIP and DO-GRIP

TGAQ

Parting and Grooving Square Blades for TANG-GRIP Tangentially Clamped Inserts



Designation	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF				CUTDIA
TGAQ D52-2-2Z-JHP	1.968	1.97	.071	.098	.068	1.713	SGC 340-Q	ETG 2*		2.05
TGAQ D52-3-2Z-JHP	1.968	1.97	.110	.138	.098	1.713	SGC 340-Q		ETG 3-4-SH*	2.05
TGAQ D52-4-2Z-JHP	1.968	1.97	.146	.177	.134	1.713	SGC 340-Q		ETG 3-4-SH*	2.05
TGAQ D82-2-4Z-JHP	2.402	2.40	.071	.098	.068	2.283	SGC 340-Q	ETG 2*		3.23
TGAQ D82-3-4Z-JHP	2.402	2.40	.110	.138	.098	2.283	SGC 340-Q		ETG 3-4-SH*	3.23
TGAQ D82-4-4Z-JHP	2.402	2.40	.146	.177	.134	2.283	SGC 340-Q		ETG 3-4-SH*	3.23
TGAQ D82-5-4Z-JHP	2.402	2.40	.185	.217	.157	2.283	SGC 340-Q		ETG 3-4-SH*	3.23
TGAQ D120-3-4Z-JHP	3.563	3.56	.110	.138	.098	3.307	SGC 340-Q		ETG 3-4-SH*	4.72
TGAQ D120-4-4Z-JHP	3.563	3.56	.146	.177	.134	3.307	SGC 340-Q		ETG 3-4-SH*	4.72
TGAQ D120-5-4Z-JHP	3.563	3.56	.185	.217	.157	3.307	SGC 340-Q	ETG 5-7-SH*		4.72

* Optional, should be ordered separately

• Suitable for all Tang-Grip (TAG) inserts

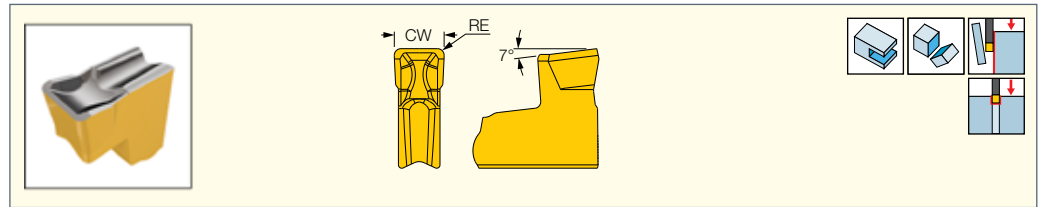
⁽¹⁾ Minimum cutting width

⁽²⁾ Maximum cutting width



TAG N-HF

Single-Ended Inserts for High Feed Parting, Grooving and Slitting Bars, Hard Materials and Tough Applications



Designation	Dimensions			Tough $\longleftrightarrow$ Hard		Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	IC830	IC808	
TAG N3HF	.118	.00157	.0157	•	•	.0098-.0138
TAG N4HF	.157	.00157	.0197	•	•	.0118-.0157
TAG N5HF	.197	.00157	.0197	•	•	.0118-.0157

• For full range see CMS Catalog

• Feed values for grade IC20 should be decreased by 50%

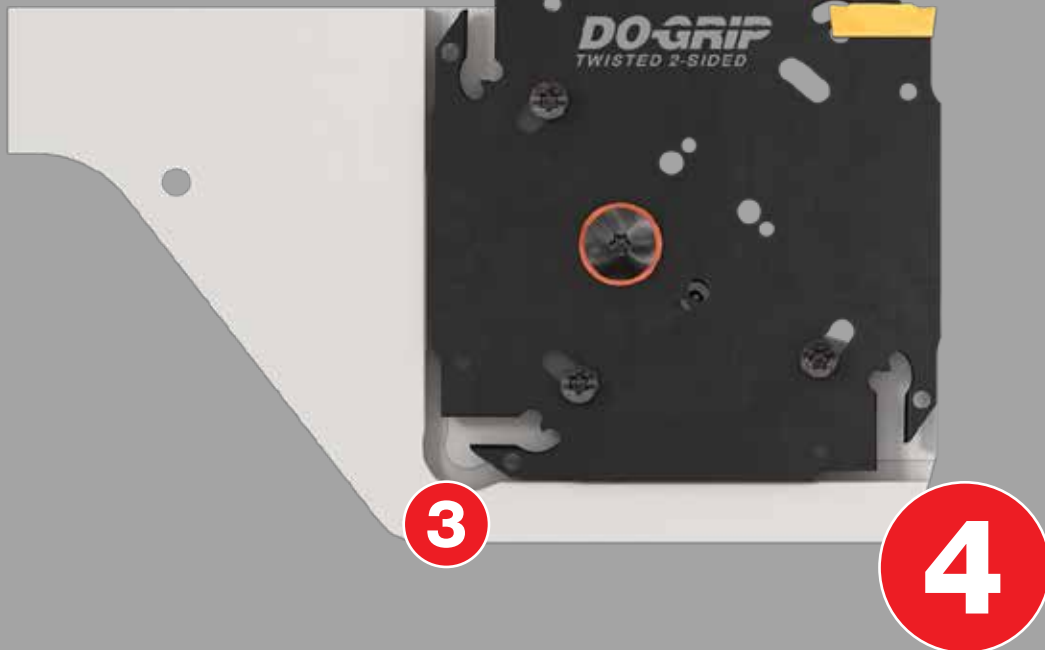
⁽¹⁾ Cutting width tolerance (+/-)



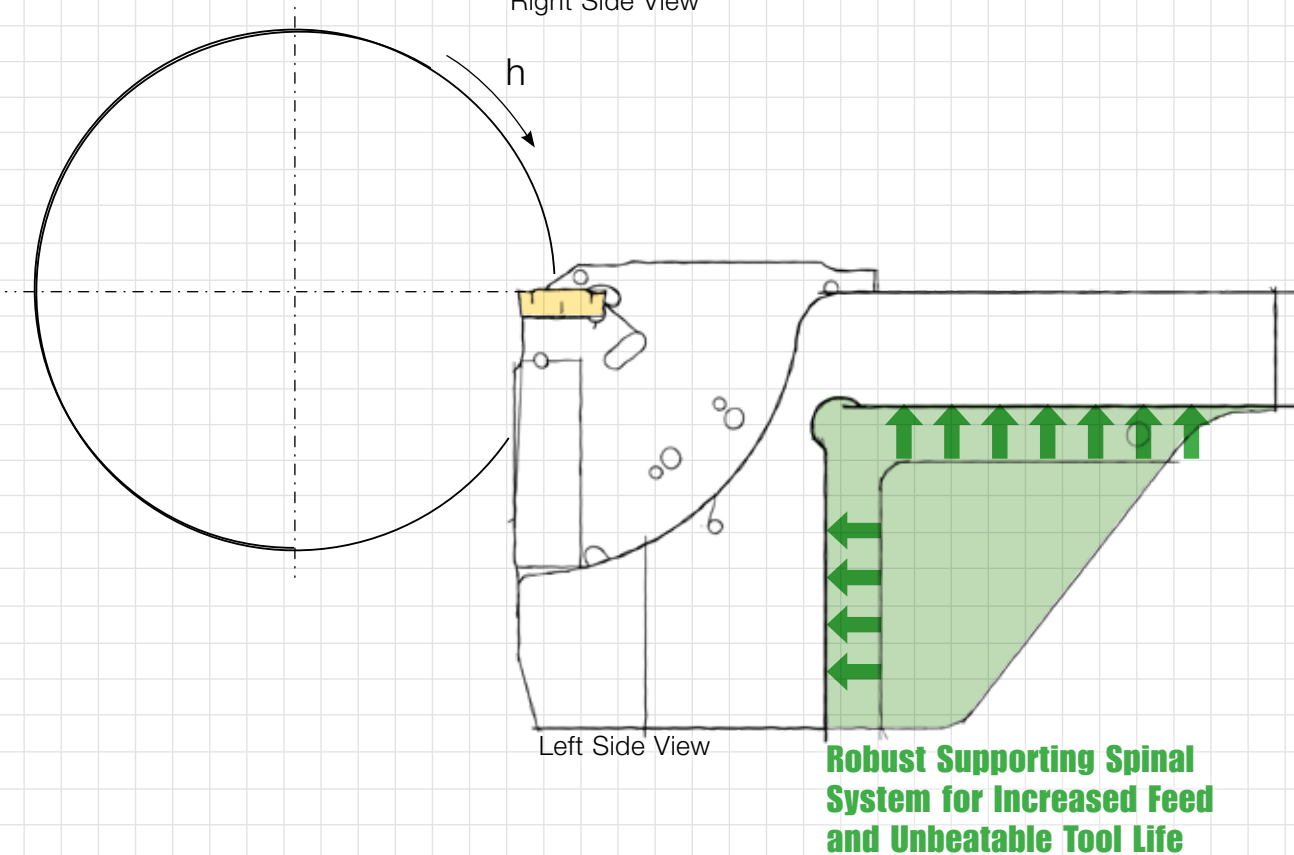
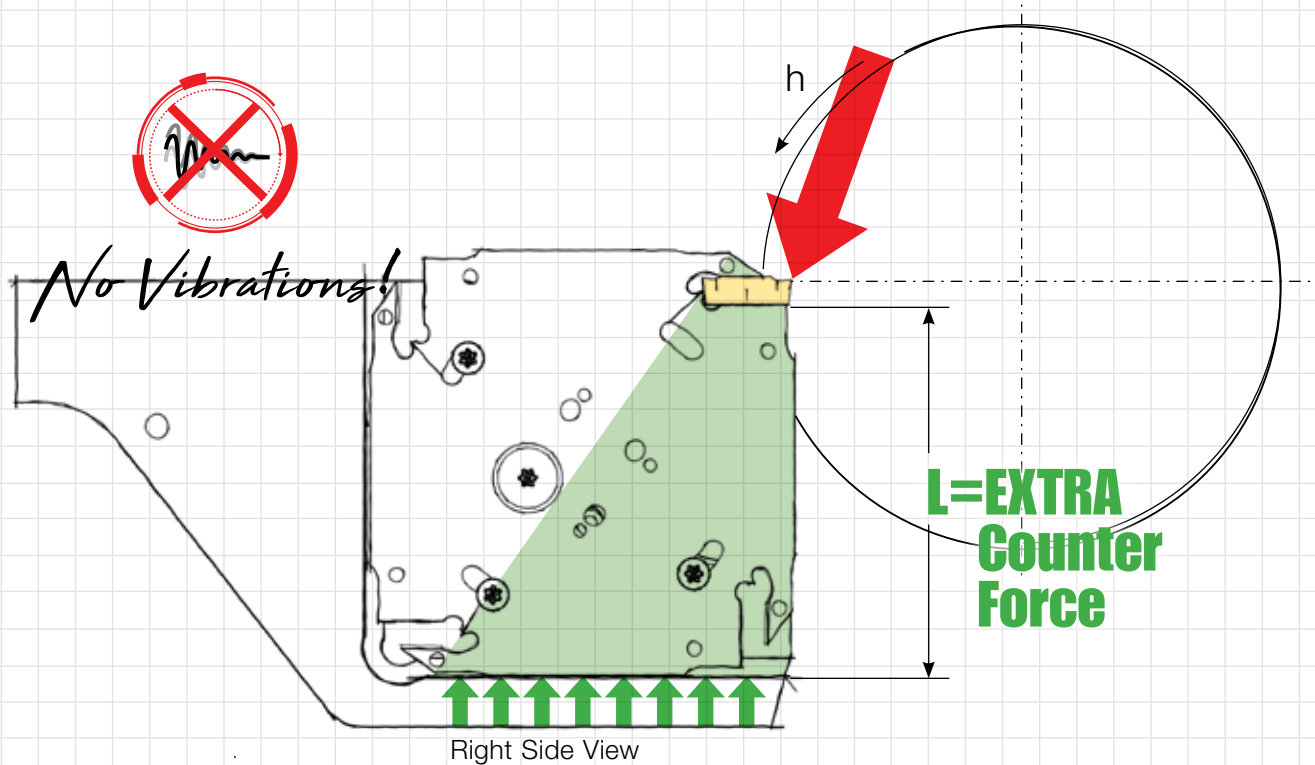
PARTING 4x FASTER

Pockets
Profitability
Productivity
Performance

DO-GRIP
TWISTED 2-SIDED



Reinforced and Robust Tool Provides Extra Stability and Higher Productivity



Parting with Extra Stability



DO-GRIP
TWISTED 2-SIDED

**The Only Twisted Double Ended Insert
for Parting and Grooving**

and Higher Productivity



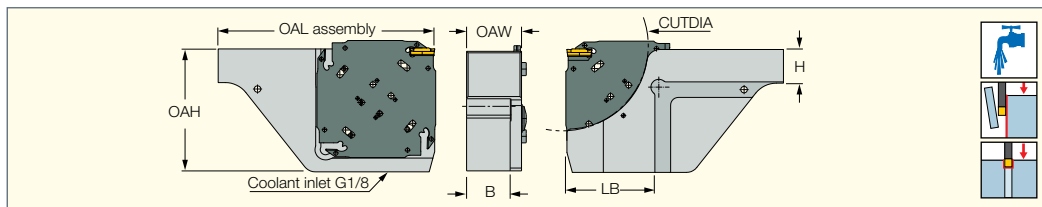
DO-GRIP
TWISTED 2-SIDED

The New Square Blade with 4-Pocket Parting Concept Enables Mounting the Block on All Machine Types

- Vibration free, excellent surface finish and part straightness
- Parting up to 120mm diameter with 4 and 5 mm "twisted" double-sided insert
- Guaranteed higher productivity
- Enables mounting all types of DO-GRIP inserts



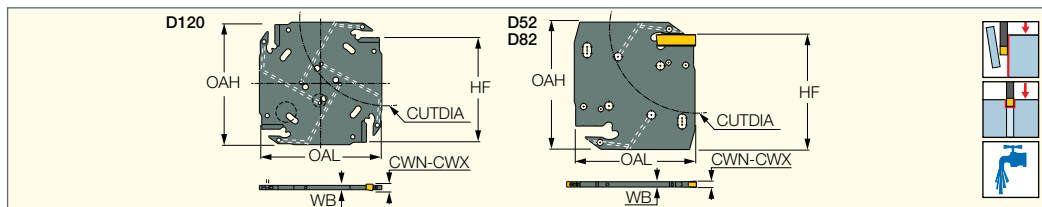
TGTBQ...D...JHP

 Parting and Grooving Blocks for
 Square Blades Using Double
 Sided DO-GRIP Inserts


Designation	OAH	H	B	OAW	OAL	LB			CUTDIA
TGTBQ 19L-D52-JHP	1.97	.750	.728	.964	4.803	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 19R-D52-JHP	1.97	.750	.728	.964	4.803	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 25.4L-D52-JHP	1.97	1.000	.886	1.122	5.197	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 25.4R-D52-JHP	1.97	1.000	.886	1.122	5.197	1.339	T-20/5	SGC 340-Q	2.05
TGTBQ 19L-D82-JHP	2.52	.750	.728	.964	5.512	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 19R-D82-JHP	2.52	.750	.728	.964	5.512	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4L-D82-JHP	2.52	1.000	.886	1.122	5.906	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4R-D82-JHP	2.52	1.000	.886	1.122	5.906	2.087	T-20/5	SGC 340-Q	3.23
TGTBQ 31.8L-D82-JHP	2.52	1.250	1.122	1.358	5.925	2.106	T-20/5	SGC 340-Q	3.23
TGTBQ 31.8R-D82-JHP	2.52	1.250	1.122	1.358	5.925	2.106	T-20/5	SGC 340-Q	3.23
TGTBQ 25.4L-D120-JHP	3.74	1.000	.886	1.122	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 25.4R-D120-JHP	3.74	1.000	.886	1.122	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 31.8L-D120-JHP	3.74	1.250	1.122	1.358	6.496	2.638	T-20/5	SGC 340-Q	4.72
TGTBQ 31.8R-D120-JHP	3.74	1.250	1.122	1.358	6.496	2.638	T-20/5	SGC 340-Q	4.72

• Suitable for all square blades, DO-GRIP and TANG-GRIP

DGAQ

 Parting and Grooving Blades
 for DO-GRIP Inserts


Designation	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF			CUTDIA
DGAQ D52-2-2Z-JHP	1.968	1.97	.075	.098	.071	1.713	SGC 340-Q	EDG 33A	2.05
DGAQ D52-3-2Z-JHP	1.968	1.97	.118	.125	.098	1.713	SGC 340-Q	EDG 33A	2.05
DGAQ D52-4-2Z-JHP	1.968	1.97	.157	.157	.126	1.713	SGC 340-Q	EDG 33A	2.05
DGAQ D82-3-2Z-JHP	2.402	2.54	.118	.125	.098	2.283	SGC 340-Q	EDG 33A	3.23
DGAQ D82-4-2Z-JHP	2.402	2.54	.157	.157	.126	2.283	SGC 340-Q	EDG 33A	3.23
DGAQ D82-5-2Z-JHP	2.402	2.54	.197	.197	.157	2.283	SGC 340-Q	EDG 33A	3.23
DGAQ D120-4-4Z-JHP	3.563	3.56	.157	.157	.126	3.307	SGC 340-Q	EDG 33A*	4.72
DGAQ D120-5-4Z-JHP	3.563	3.56	.197	.197	.157	3.307	SGC 340-Q	EDG 33A	4.72

• When using .079 and .118" double-sided inserts, the depth of cut is limited up to .75". For larger depth, use a DGNM type single-ended insert.

⁽¹⁾ Minimum cutting width

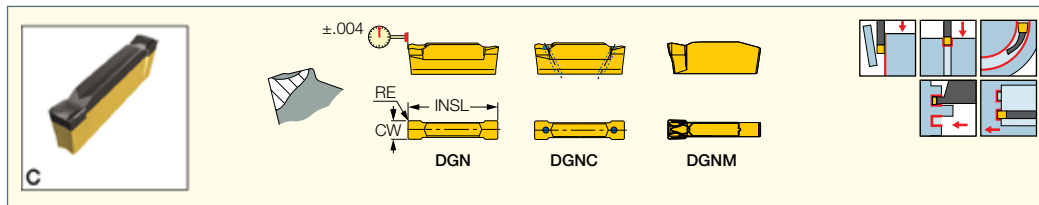
⁽²⁾ Maximum cutting width

* Optional, should be ordered separately



DGN/DGNC/DGNM-C

Double-Sided Parting Inserts for Parting and Grooving Bars, Hard Materials and Tough Applications



Designation	Dimensions						Tough ↔ Hard													Recommended Machining Data		
	CW	CWTOL ⁽³⁾	RE	RETOL ⁽⁴⁾	CDX	INSL	IC328	IC830	IC928	IC1030	IC1028	IC354	IC5400	IC1010	IC308	IC808	IC908	IC30N	IC20	IC807	IC907	f groove (IPR)
DGN 2002C	.079	.0012	.008	.0008	.709	.783	●	●			●	●	●	●	●	●	●	●	●			.0020-.0063
DGN 2202C	.087	.0012	.008	.0008	.709	.780	●	●		●	●	●	●	●	●	●	●	●	●		●	.0020-.0063
DGN 2502C	.098	.0012	.008	.0008	.709	.815			●	●				●			●					.0031-.0079
DGN 3102C	.122	.0016	.008	.0008	.709	.791	●	●		●	●	●	●	●	●	●	●	●	●	●	●	.0039-.0098
DGNC 3102C ⁽¹⁾	.122	.0016	.008	.0008	.709	.827										●	●					.0039-.0098
DGNM 3202C ⁽²⁾	.125	.0016	.008	.0008	- ⁽⁵⁾	.803	●					●					●					.0039-.0098
DGN 4003C	.157	.0016	.012	.0012	- ⁽⁵⁾	.740	●	●			●	●			●	●	●	●	●	●		.0039-.0118
DGNC 4003C ⁽¹⁾	.157	.0016	.012	.0012	- ⁽⁵⁾	.748										●	●					.0039-.0118
DGN 4803C	.189	.0016	.012	.0012	- ⁽⁵⁾	.783	●															.0047-.0138
DGN 5003C	.197	.0016	.012	.0012	- ⁽⁵⁾	.752	●	●			●	●				●	●	●	●			.0047-.0138
DGN 6303C	.250	.0016	.014	.0012	- ⁽⁵⁾	.752	●	●			●	●				●	●		●			.0059-.0157

• Feed values for grade IC20 should be decreased by 50%

⁽¹⁾ Inserts with coolant holes, recommended coolant pressure 145PSI minimum

⁽²⁾ Single-ended insert.

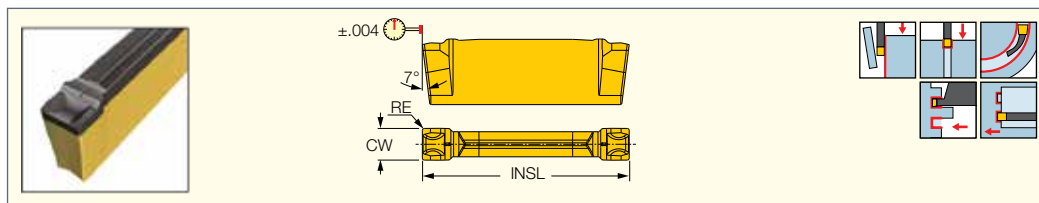
⁽³⁾ Cutting width tolerance (+/-)

⁽⁴⁾ Corner radius tolerance (+/-)

⁽⁵⁾ No depth limit

DGN-MF

Double-Sided Inserts for Parting and Grooving Soft and Hard Materials at Medium Feeds

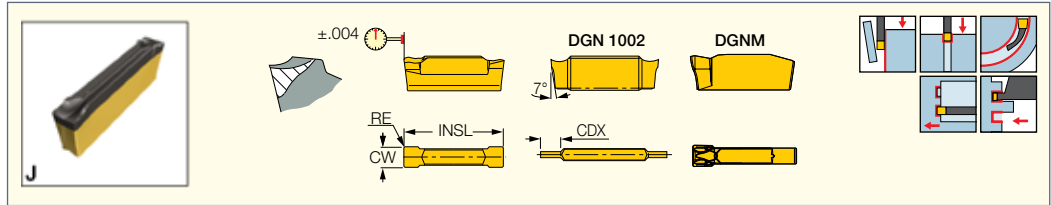


Designation	Dimensions					Tough ↔ Hard					Recommended Machining Data
	CW	RE	CWTOL ⁽¹⁾	CDX	INSL	IC830	IC1030	IC5400	IC1010	IC808	f groove (IPR)
DGN 2002MF	.079	.008	.0016	.709	.783	•		•		•	.0016-.0047
DGN 2202MF	.087	.008	.0157	.709	.783		•	•	•		.0016-.0047
DGN 3002MF	.118	.008	.0016	.709	.791			•			.0024-.0071
DGN 3102MF	.122	.008	.0016	.709	.791	•	•	•	•		.0024-.0071
DGN 4003MF	.157	.012	.0016	.709	.740	•				•	.0031-.0079

⁽¹⁾ Cutting width tolerance (+/-)

DGN/DGNM-J/JS/JT

Double-Sided Inserts for Parting and Grooving Soft Materials, Parting Tubes, Small Diameters and Thin-Walled Parts



Designation	Dimensions						Tough $\longleftrightarrow$ Hard												Recommended Machining Data		
	CW	CWTOL ⁽³⁾	RE	RETOL ⁽⁴⁾	CDX	INSL	IC328	IC830	IC928	IC1030	IC1028	IC354	IC5400	IC1010	IC308	IC808	IC908	IC20	IC807	IC907	f groove (IPR)
DGN 1002J	.039	.0008	.006	.0008	.118	.827	●				●					●	●				.0008-.0027
DGN 1402J	.055	.0012	.006	.0008	.591	.622	●	●			●	●			●	●	●				.0012-.0047
DGN 1502J	.059	.0012	.006	.0008	.709	.823	●				●						●				.0012-.0047
DGN 2002JT	.079	.0012	.008	.0008	.709	.780										●					.0016-.0055
DGN 2200JS ⁽¹⁾	.087	.0012	.001	.0008	.709	.764	●	●													.0012-.0031
DGN 2202J	.087	.0012	.008	.0008	.709	.780	●	●		●	●	●	●	●	●	●	●	●	●		.0016-.0047
DGN 2202JT	.087	.0012	.008	.0008	.709	.780		●				●				●					.0016-.0055
DGN 3100JS ⁽¹⁾	.122	.0016	.001	.0008	.709	.776	●								●						.0012-.0039
DGN 3102J	.122	.0016	.008	.0008	.709	.791	●	●		●	●	●	●	●	●	●	●	●		●	.0016-.0063
DGN 3102JT	.122	.0016	.008	.0008	.709	.791		●				●				●				●	.0020-.0071
DGN 3202J	.125	.0016	.008	.0008	.709	.827											●				.0016-.0063
DGNM 3202J ⁽²⁾	.125	.0016	.008	.0008	- ⁽⁵⁾	.799	●					●					●				.0016-.0063
DGN 4003J	.157	.0016	.012	.0008	- ⁽⁵⁾	.744	●	●			●	●			●	●	●	●	●		.0020-.0071
DGN 4003JT	.157	.0016	.012	.0012	- ⁽⁵⁾	.744		●													.0020-.0071
DGN 4803J	.189	.0016	.012	.0008	- ⁽⁵⁾	.803	●														.0020-.0079
DGN 5003J	.197	.0016	.012	.0008	- ⁽⁵⁾	.748	●	●			●	●				●	●	●			.0020-.0079
DGN 5003JT	.197	.0016	.012	.0008	- ⁽⁵⁾	.748			●								●	●			.0020-.0079
DGN 6303J	.250	.0016	.014	.0008	- ⁽⁵⁾	.752	●	●			●	●				●	●	●			.0020-.0098
DGN 6303JT	.250	.0016	.014	.0008	-	.752			●								●				.0020-.0098

• JT chipformer has the basic positive configuration of the J-type and a reinforced negative frontal edge; most suitable for soft materials at low to medium feeds

⁽¹⁾ Sharp corners

⁽²⁾ Single-ended insert

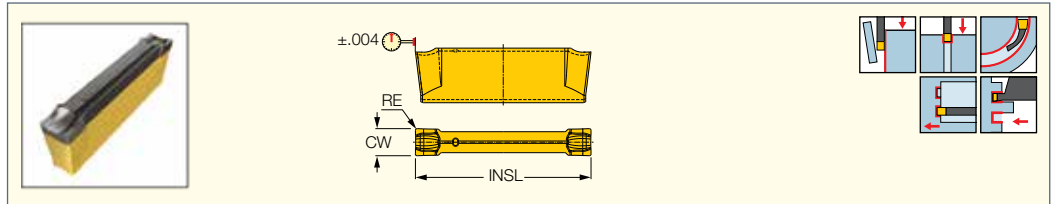
⁽³⁾ Cutting width tolerance (+/-)

⁽⁴⁾ Corner radius tolerance (+/-)

⁽⁵⁾ No depth limit

DGN-LF/LFT

Double-Sided Inserts for Parting and Grooving Stainless Steel



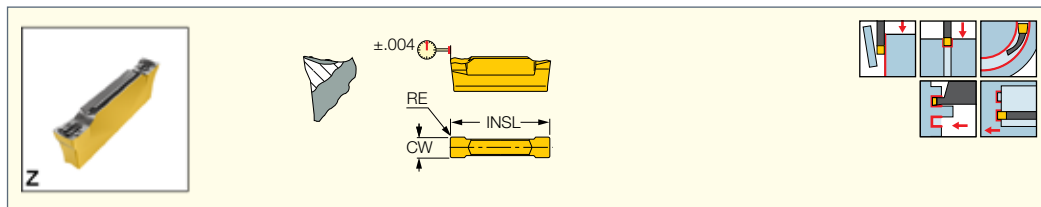
Designation	Dimensions						Tough ↔ Hard							Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	RETOL ⁽²⁾	CDX	INSL	IC830	IC928	IC1030	IC5400	IC1010	IC808	IC908	f groove (IPR)
DGN 2002LF	.079	.0012	.008	.0000	.709	.780	•			•		•		.0012-.0031
DGN 2202LF	.087	.0012	.008	.0000	.709	.780		•	•	•	•	•	•	.0012-.0031
DGN 3102LF	.122	.0016	.008	.0000	.709	.791	•	•	•	•	•	•	•	.0016-.0039
DGN 3102LFT	.122	.0016	.008	.0000	.709	.831		•					•	.0016-.0047

• JT chipformer has the basic positive configuration of the J-type and a reinforced negative frontal edge. Most suitable for soft materials at low to medium feeds

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

DGN-Z

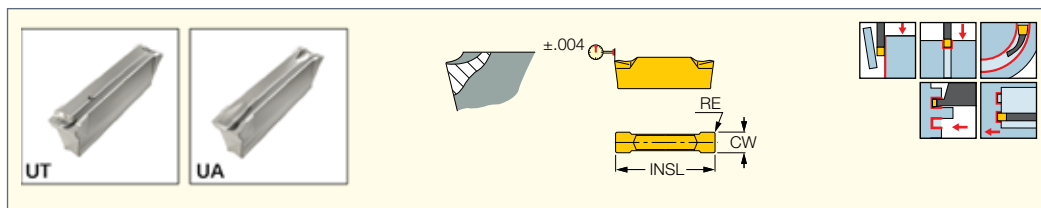
 Double-Sided Inserts
 for Parting Tubes, Thin-
 Walled and Small Parts


Designation	Dimensions						Tough ↔ Hard				Recommended Machining Data
	CW	CDX	CWTOL ⁽¹⁾	RE	RETOL ⁽²⁾	INSL	IC1030	IC1010	IC808	IC908	
DGN 2002Z	.079	.709	.0012	.008	.0008	.823	•	•	•	•	.0012-.0047
DGN 3002Z	.118	.709	.0012	.008	.0008	.823			•	•	.0012-.0063

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

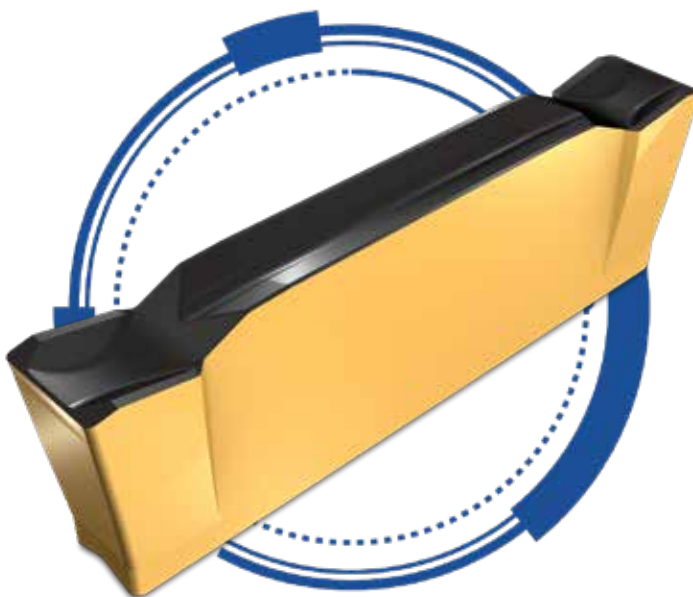
DGN-UT/UA

 Double-Sided Inserts for Parting
 and Grooving Cr-Ni Alloys,
 Low Carbon Steel and Ductile
 Materials at Low Feeds


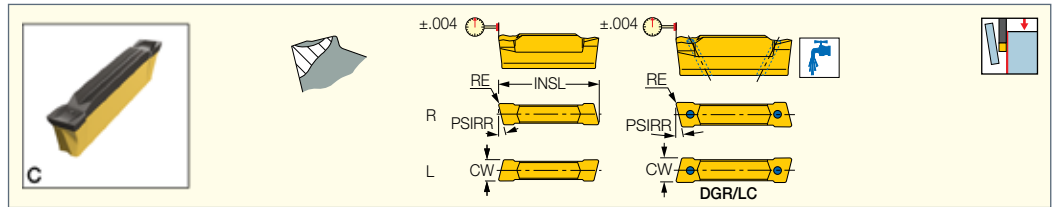
Designation	Dimensions						Tough ↔ Hard							Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	RETOL ⁽²⁾	CDX	INSL	IC328	IC1028	IC354	IC350	IC308	IC908	IC20	
DGN 2202UA	.087	.0012	.008	.0008	.709	.783	•	•	•					.0016-.0051
DGN 2202UT	.087	.0012	.008	.0008	.709	.772				•		•		.0012-.0043
DGN 3003UA	.118	.0012	.010	.0008	.709	.807	•	•	•		•		•	.0016-.0059
DGN 3003UT	.118	.0012	.010	.0008	.709	.807					•	•		.0016-.0051
DGN 4003UA	.157	.0016	.012	.0008	- ⁽³⁾	.764	•		•					.0020-.0063
DGN 4003UT	.157	.0016	.012	.0008	- ⁽³⁾	.760	•		•		•	•		.0016-.0059
DGN 5003UT	.197	.0016	.012	.0008	- ⁽³⁾	.748	•	•			•	•		.0020-.0071
DGN 6008UT	.236	.0016	.031	.0020	- ⁽³⁾	.752	•		•		•	•		.0024-.0079

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

⁽³⁾ No depth limit


DGR/L-C DGRC/LC-C
Double-Sided Inserts for
Parting Bars, Hard Materials
and Tough Applications



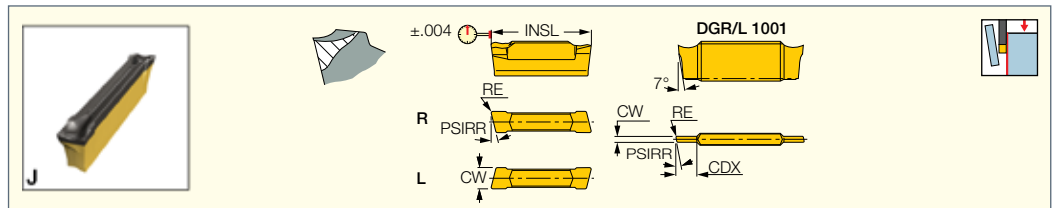
Designation	Dimensions					Tough $\leftrightarrow$ Hard								Recommended Machining Data
	CW	RE	CDX	fa	INSL	IC328	IC830	IC1028	IC354	IC808	IC908	IC20	f groove (IPR)	
DGR/L 2202C-6D	.087	.008	.709	6.0	.819	•	•	•	•	•	•	•	.0016-.0047	
DGR/L 3102C-15D	.122	.008	.709	15.0	.827	•	•	•	•	•	•	•	.0031-.0055	
DGR/L 3102C-6D	.122	.008	.709	6.0	.827	•	•	•	•	•	•	•	.0031-.0071	
DGR/LC 3102C-6D ⁽¹⁾	.122	.008	.709	6.0	.827	•	•	•	•	•	•	•	.0031-.0071	
DGR 3102C-8D	.122	.008	.709	8.0	.831	•	•	•	•	•	•	•	.0020-.0059	
DGR/L 4003C-4D	.157	.012	- ⁽²⁾	4.0	.744	•	•	•	•	•	•	•	.0031-.0079	
DGR/LC 4003C-4D ⁽¹⁾	.157	.012	- ⁽²⁾	4.0	.748	•	•	•	•	•	•	•	.0031-.0079	
DGR 4800CS-4D	.189	.001	- ⁽²⁾	4.0	.776	•	•	•	•	•	•	•	.0020-.0059	
DGR 4800CS-8D	.189	.001	- ⁽²⁾	8.0	.776	•	•	•	•	•	•	•	.0020-.0059	
DGR 4803C-4D	.189	.012	- ⁽²⁾	4.0	.799	•	•	•	•	•	•	•	.0039-.0098	
DGR 4803C-8D	.189	.012	- ⁽²⁾	8.0	.799	•	•	•	•	•	•	•	.0039-.0079	
DGR/L 5003C-4D	.197	.012	- ⁽²⁾	4.0	.752	•	•	•	•	•	•	•	.0039-.0098	
DGR/L 6303C-4D	.250	.014	- ⁽²⁾	4.0	.752	•	•	•	•	•	•	•	.0047-.0118	

• Feed values for grade IC20 should be decreased by 50%

⁽¹⁾ Inserts with coolant holes, recommended coolant pressure 145 PSI minimum

⁽²⁾ No depth limit

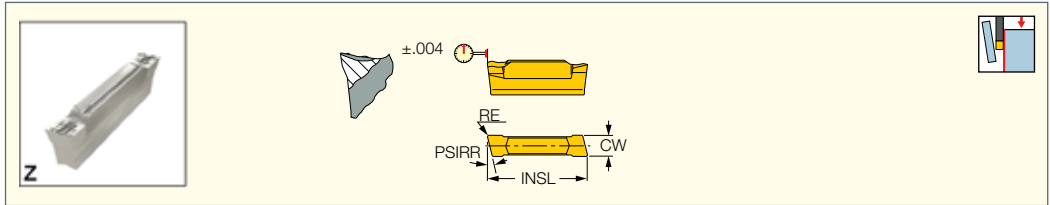
DGR/L-J/JS
Double-Sided Inserts for
Parting Soft Materials, Parting
Tubes, Small Diameters
and Thin-Walled Parts



Designation	Dimensions								Tough $\leftrightarrow$ Hard								Recommended Machining Data
	CW	RE	CDX	fa	INSL	PSIRL	PSIRR		IC328	IC830	IC1028	IC354	IC308	IC808	IC908	IC20	f groove (IPR)
DGR/L 1001J-8D	.039	.003	-	8.0	-	8.0	-		•	•	•	•	•	•	•	•	.0008-.0024
DGR/L 1400JS-15D ⁽¹⁾	.055	.001	-	15.0	-	15.0	-		•	•	•	•	•	•	•	•	.0012-.0027
DGR/L 1402J-8D	.055	.006	-	8.0	-	-	8.0		•	•	•	•	•	•	•	•	.0012-.0031
DGR 1500J-8D	.059	.002	-	8.0	-	-	8.0		•	•	•	•	•	•	•	•	.0012-.0031
DGR/L 2200JS-15D ⁽¹⁾	.087	.001	-	15.0	-	-	15.0		•	•	•	•	•	•	•	•	.0012-.0027
DGR/L 2200JS-6D ⁽¹⁾	.087	.001	-	6.0	-	-	6.0		•	•	•	•	•	•	•	•	.0012-.0031
DGR/L 2202J-6D	.087	.008	-	6.0	-	-	6.0		•	•	•	•	•	•	•	•	.0012-.0039
DGR 2202J-15D	.087	.008	-	15.0	-	-	15.0		•	•	•	•	•	•	•	•	.0012-.0031
DGR/L 3100JS-15D ⁽¹⁾	.122	.001	-	15.0	-	15.0	-		•	•	•	•	•	•	•	•	.0012-.0027
DGR/L 3100JS-6D ⁽¹⁾	.122	.001	-	6.0	-	-	6.0		•	•	•	•	•	•	•	•	.0012-.0031
DGR/L 3102J-15D	.122	.008	-	15.0	-	15.0	-		•	•	•	•	•	•	•	•	.0016-.0039
DGR/L 3102J-6D	.122	.008	-	6.0	-	6.0	-		•	•	•	•	•	•	•	•	.0016-.0055
DGR/L 4003J-4D	.157	.012	- ⁽²⁾	4.0	-	-	4.0		•	•	•	•	•	•	•	•	.0016-.0059
DGR 4000JS-15D ⁽¹⁾	.157	.000	- ⁽²⁾	15.0	-	15.0	-		•	•	•	•	•	•	•	•	.0016-.0039
DGR 4800JS-4D ⁽¹⁾	.189	.001	- ⁽²⁾	4.0	-	-	4.0		•	•	•	•	•	•	•	•	.0016-.0047
DGR 4800JS-8D ⁽¹⁾	.189	.001	- ⁽²⁾	8.0	-	-	8.0		•	•	•	•	•	•	•	•	.0016-.0055
DGR 4803J-4D	.189	.012	- ⁽²⁾	4.0	-	4.0	-		•	•	•	•	•	•	•	•	.0016-.0071
DGR 4803J-8D	.189	.012	- ⁽²⁾	8.0	-	8.0	-		•	•	•	•	•	•	•	•	.0016-.0059
DGR/L 5003J-4D	.197	.012	- ⁽²⁾	4.0	-	-	4.0		•	•	•	•	•	•	•	•	.0020-.0079
DGR/L 6303J-4D	.250	.014	- ⁽²⁾	4.0	-	4.0	-		•	•	•	•	•	•	•	•	.0020-.0098

⁽¹⁾ Sharp corners

⁽²⁾ No depth limit.



Designation	Dimensions						IC908	Recommended Machining Data
	CW	RE	INSL	CDX	fa _o	PSIRR		f groove (IPR)
DGR 2000ZS-15D ⁽¹⁾	.079	.001	.803	.709	15.0	15.0	●	.0012-.0027
DGR 2000ZS-6D ⁽¹⁾	.079	.001	.803	.709	6.0	6.0	●	.0012-.0031
DGR 2002Z-15D	.079	.008	.803	.709	15.0	15.0	●	.0012-.0039
DGR 2002Z-6D	.079	.008	.823	.709	6.0	6.0	●	.0012-.0039
DGR 3000ZS-15D ⁽¹⁾	.118	.001	.803	.709	15.0	15.0	●	.0012-.0039
DGR 3000ZS-6D ⁽¹⁾	.118	.001	.803	.709	6.0	6.0	●	.0012-.0047
DGR 3002Z-6D	.118	.008	.823	.709	6.0	6.0	●	.0012-.0055

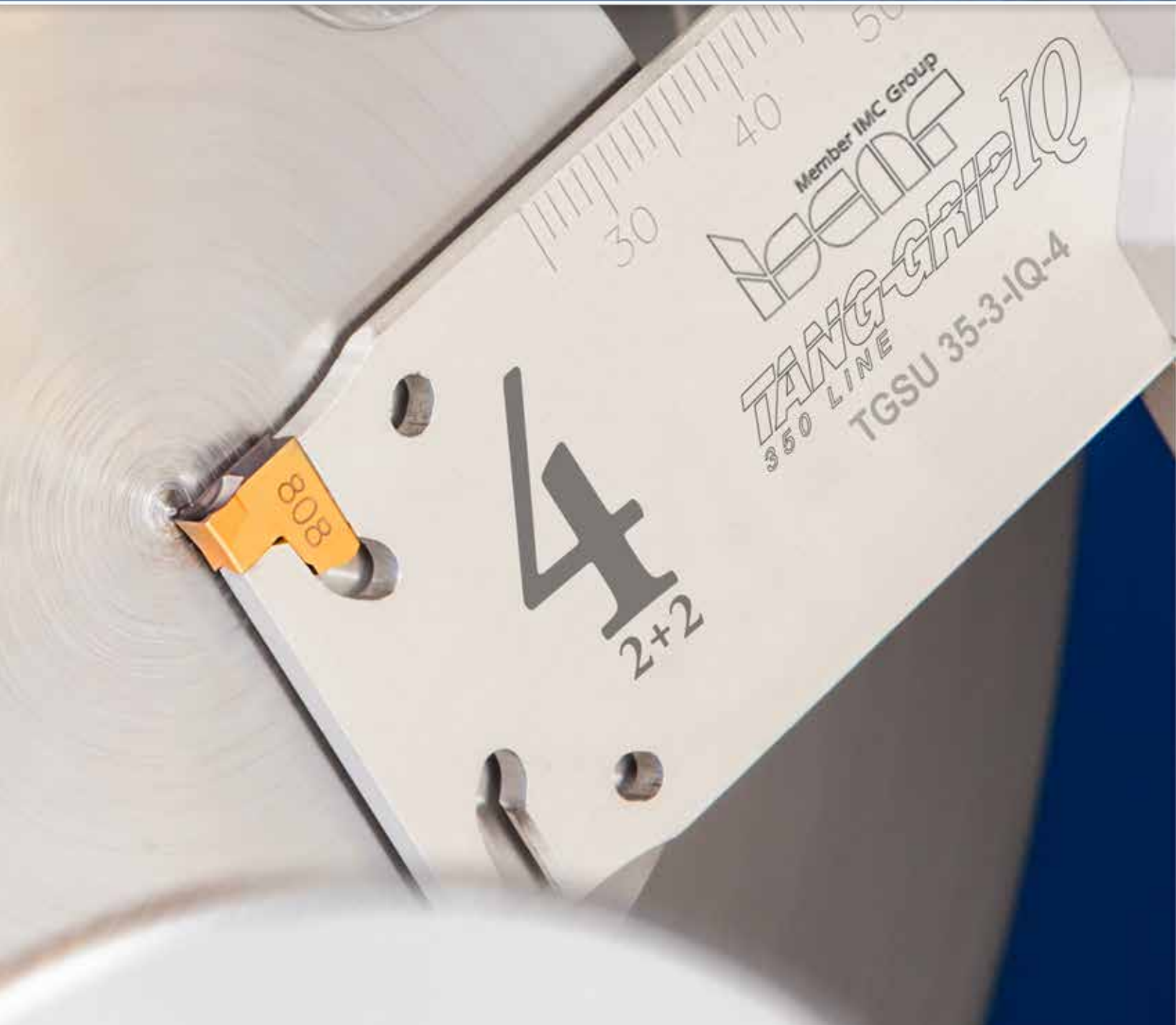
⁽¹⁾ Sharp corners

PARTING **4** **x** **FASTER**

Pockets
Profitability
Productivity
Performance



Parting with Extra Stability



TANG-GRIP IQ
350 LINE

**Economical Blade with 4 Pockets,
Flat Top for Excellent Chip Evacuation**

and Higher Productivity



TANG-GRIP IQ
350 LINE

Flat Top TANG-GRIP IQ Blades Engineered for Easy Chip Flow

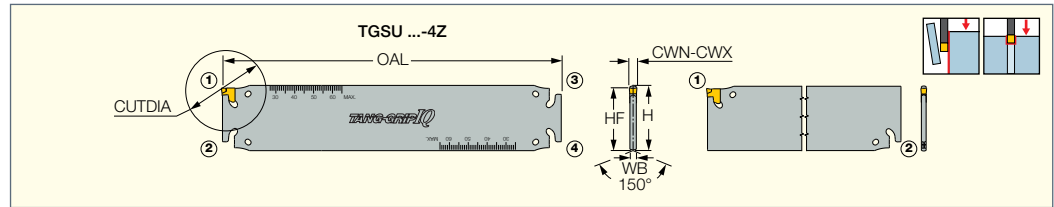
Economical Blade

- Offers free, unobstructed chip flow, since there is no upper jaw as in other clamping systems (very important in parting large diameters and deep grooving applications)
- For **TANG-GRIP** single-ended parting insert with an unbeatable clamping method



TGSU

Parting and Grooving Flat Top Blades with Tangential Pockets Carrying TANG-GRIP Single-Ended Inserts



Designation	H	CWN ⁽²⁾	CWX ⁽³⁾	CUTDIA	NOP ⁽⁴⁾	WB	OAL	HF		Insert	
TGSU 35-1.4-IQ	1.378	.055	.055	1.38	2	.098 ⁽⁵⁾	7.087	1.307	N	TAG 1.4	ETG 1.4/1.6*
TGSU 35-2-IQ	1.378	.071	.094	2.34	2	.098 ⁽⁶⁾	6.299	1.307	N	TAG 2	ETG 2*
TGSU 35-3-IQ-4Z	1.378	.110	.138	4.72	4	.098	7.087	1.307	N	TAG 3	ETG 3-4-SH*
TGSU 35-3-4Z-JHP	1.378	.110	.138	4.72	4	.098	7.421	1.307	Y	TAG 3	ETG 3-4-SH* SGC 340
TGSU 35-4-IQ-4Z	1.378	.146	.177	4.72	4	.134	7.087	1.307	N	TAG 4	ETG 3-4-SH*
TGSU 35-4-4Z-JHP	1.378	.146	.177	4.72	4	.134	7.421	1.307	Y	TAG 4	ETG 3-4-SH* SGC 340
TGSU 35-5-IQ	1.378	.185	.217	5.67	2	.157	7.087	1.307	N	TAG 5	ETG 5-7*
TGSU 35-6-IQ	1.378	.224	.256	5.67	2	.205	7.087	1.307	N	TAG 6	ETG 5-7*
TGSU 35-7-IQ	1.378	.268	.295	5.67	2	.236	7.087	1.307	N	TAG 7	ETG 5-7*
TGSU 35C-8-IQ ⁽¹⁾	1.378	.303	.335	5.67	2	.283	7.087	1.307	Y	TAG 8	ETG 8-12*
TGSU 35C-9-IQ ⁽¹⁾	1.378	.343	.394	5.67	2	.323	7.087	1.307	Y	TAG 9	ETG 8-12*
TGSU 56C-7-IQ ⁽¹⁾	2.205	.268	.295	8.66	2	.236	10.236	2.110	Y	TAG 7	ETG 5-7*
TGSU 56C-8-IQ ⁽¹⁾	2.205	.303	.335	8.66	2	.283	10.236	2.110	Y	TAG 8	ETG 8-12
TGSU 56C-9-IQ ⁽¹⁾	2.205	.343	.394	8.66	2	.323	10.236	2.110	Y	TAG 9	ETG 8-12

⁽¹⁾ C- Internal coolant, use with TGTBU HD blocks only; cooling tube SGCU 341 should be ordered separately

⁽²⁾ Minimum cutting width

⁽³⁾ Maximum cutting width

⁽⁴⁾ Number of pockets

⁽⁵⁾ Thickness at the D.O.C. area is .041"

⁽⁶⁾ Thickness at the D.O.C. area is .065"

* Optional, should be ordered separately

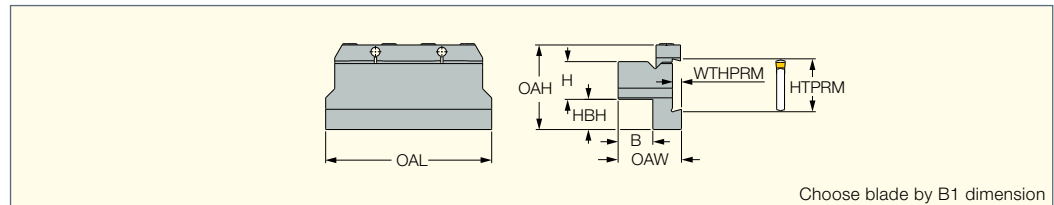
TGSU 35-3-IQ-4

TGSU 35-4-IQ-4



TGTBU

Tool Blocks for TGSU Parting and Grooving Blades

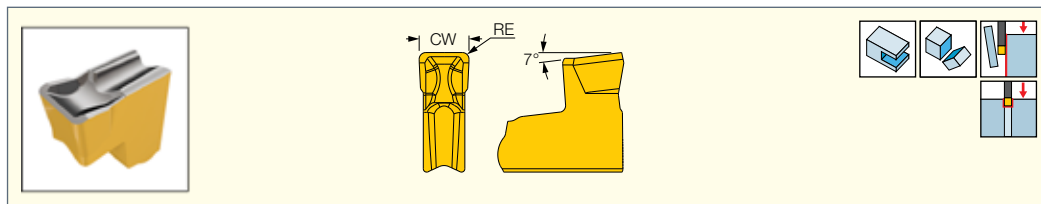


Designation	H	B	HTPRM	WTHPRM	OAW	OAH	HBH	OAL	NOPTION			
TGTBU 19-35	.750	.750	1.378	.236	1.535	2.20	1.02	4.331	2	BKU 110	SR M6X16 DIN912	HW 5.0
TGTBU 25.4-35	1.000	1.024	1.378	.236	1.772	2.20	.72	4.331	2	BKU 110	SR M6X16 DIN912	HW 5.0
TGTBU 31.8-35	1.250	1.142	1.378	.236	1.890	2.20	.47	4.331	2	BKU 110	SR M6X16 DIN912	HW 5.0
TGTBU 31.8-35 HD ⁽¹⁾	1.250	1.181	1.378	.315	2.165	2.56	.72	4.331	2	BK 509	SR M8X30DIN912	HW 6.0
TGTBU 38.1-35 HD ⁽¹⁾	1.250	1.181	1.378	.315	2.598	2.56	.47	4.331	2	BK 509	SR M8X30DIN912	HW 6.0
TGTBU 38.1-35	1.500	1.535	1.378	.236	2.283	2.20	.22	4.331	2	BKU 110	SR M6X16 DIN912	HW 5.0
TGTBU 38.1-56 HD ⁽¹⁾	1.500	1.614	2.205	.315	2.598	3.27	1.18	5.118	2	BK 509	SR M8X30DIN912	HW 6.0

⁽¹⁾ HD - recommended blocks for TGSU...-8, TGSU...-9 blades

TAG N-HF

Single-Ended Inserts for High Feed Parting, Grooving and Slitting Bars, Hard Materials and Tough Applications



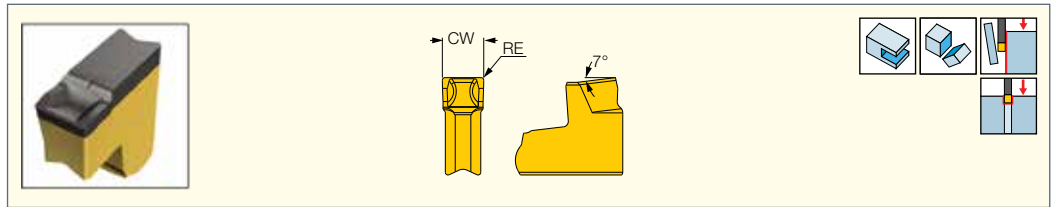
Designation	Dimensions			Tough ↔ Hard		Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	IC830	IC808	f groove (IPR)
TAG N3HF	.118	.00157	.0157	•	•	.0098-.0138
TAG N4HF	.157	.00157	.0197	•	•	.0118-.0157
TAG N5HF	.197	.00157	.0197	•	•	.0118-.0157

• Feed values for grade IC20 should be decreased by 50%

⁽¹⁾ Cutting width tolerance (+/-)



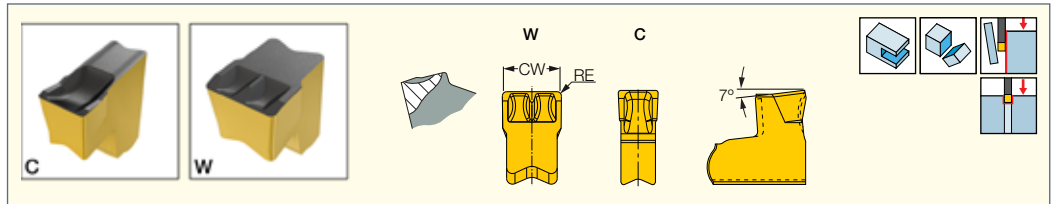
TAG N-MF

 Single-Ended Inserts for Parting
 Grooving and Slitting Stainless
 and Alloy Steel at Medium Feed


Designation	Dimensions			Tough ↔ Hard					Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	IC830	IC1030	IC5400	IC1010	IC808	f groove (IPR)
TAG N2MF	.079	.0020	.008	•	•	•	•	•	.0016-.0047
TAG N3MF	.118	.0020	.008	•	•	•	•	•	.0024-.0071
TAG N4MF	.157	.0020	.010	•	•	•	•	•	.0027-.0087
TAG N5MF	.197	.0020	.010	•				•	.0031-.0098

⁽¹⁾ Cutting width tolerance (+/-)

TAG N-C/W/M

 Single-Ended Inserts for Parting,
 Grooving and Slitting Bars, Hard
 Materials and Tough Applications


Designation	Dimensions			Tough ↔ Hard										Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	IC830	IC928	IC1030	IC5400	IC1010	IC808	IC908	IC30N	IC20	IC807	f groove (IPR)
TAG N1.4C	.055	.0020	.0063										•	.0016-.0039
TAG N1.6C	.063	.0020	.0063	•					•					.0016-.0055
TAG N2C	.079	.0020	.0079	•		•	•	•	•		•	•		.0020-.0063
TAG N2.4C	.094	.0016	.0063	•					•					.0024-.0071
TAG N3CB ⁽¹⁾	.118	.0020	.0138	•					•					.0047-.0118
TAG N3C	.120	.0020	.0079	•	•	•	•	•	•	•	•	•	•	.0039-.0098
TAG N3M ⁽²⁾	.120	.0020	.0079	•						•				.0024-.0071
TAG N3W	.120	.0020	.0079	•						•				.0039-.0098
TAG N4C	.157	.0020	.0094	•	•	•	•	•	•	•		•	•	.0039-.0118
TAG N4CB ⁽¹⁾	.157	.0020	.0157	•						•				.0039-.0130
TAG N4M ⁽²⁾	.157	.0020	.0094	•						•				.0024-.0079
TAG N4W	.157	.0020	.0094	•						•				.0039-.0118
TAG N4.8C	.189	.0020	.0118	•					•					.0039-.0138
TAG N5C	.199	.0020	.0098	•					•			•		.0039-.0138
TAG N6.3C	.248	.0039	.0138	•					•					.0059-.0157
TAG N7W	.276	.0039	.0197	•					•					.0071-.0157
TAG N8C	.315	.0039	.0197	•					•					.0079-.0276
TAG N9.5C	.374	.0039	.0197	•					•					.0098-.0315
TAG N9.5W	.374	.0039	.0197	•					•					.0087-.0315
TAG N12.7W	.500	.0039	.0335	•					•					.0118-.0315

• Feed values for grade IC20 should be decreased by 50%

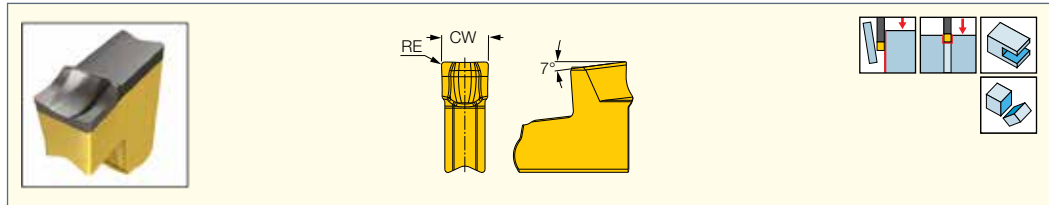
⁽¹⁾ Larger corner radii for interrupted cut and high feed applications

⁽²⁾ Similar to C-type, but with a modified edge; improved chip control at medium feeds

⁽³⁾ Cutting width tolerance (+/-)

TAG N-LF

Single-Ended Inserts for Parting, Grooving and Slitting Stainless Steel



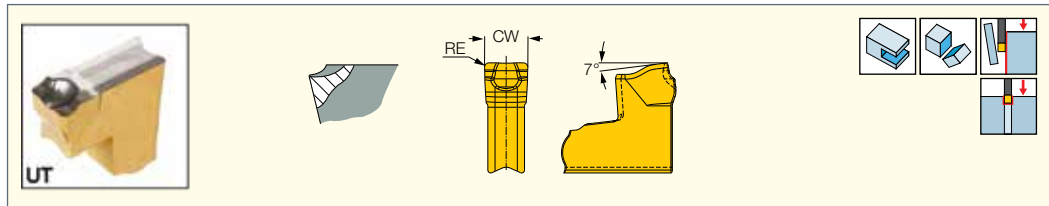
Designation	Dimensions				Tough ↔ Hard					Recommended Machining Data
	CW	RE	CWTOL ⁽¹⁾	RETOL ⁽²⁾	IC830	IC1030	IC5400	IC1010	IC808	
TAG N2LF	.079	.008	.0016	.0012	•	•	•	•	•	.0012-.0031
TAG N3LF	.120	.008	.0016	.0012	•	•	•	•	•	.0016-.0039

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

TAG N-UT

Single-Sided Inserts for Parting, Grooving & Slitting at Low Feeds on Cr-Ni Alloys, Ductile Materials & Low Carbon Steel



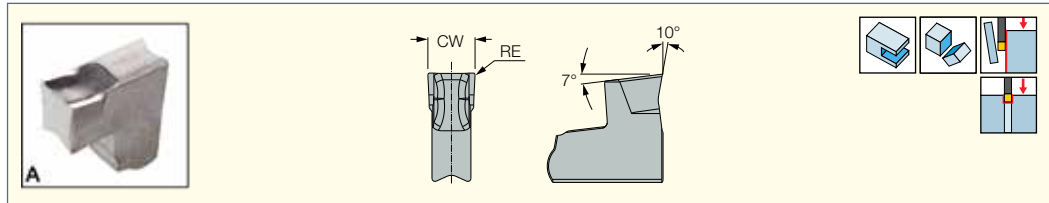
Designation	Dimensions				Tough ↔ Hard			Recommended Machining Data
	CW	RE	CWTOL ⁽¹⁾	RETOL ⁽²⁾	IC830	IC808	IC908	
TAG N2UT	.079	.0079	.0016	.0016	•	•	•	.0012-.0039
TAG N3UT	.118	.0118	.0016	.0016	•	•	•	.0016-.0047
TAG N4UT	.157	.0118	.0016	.0016			•	.0020-.0059
TAG N5UT	.197	.0118	.0016	.0016			•	.0020-.0071
TAG N6UT	.236	.0335	.0016	.0016			•	.0024-.0087

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

TAG N-A

Single-Ended Inserts for Parting, Grooving and Slitting Aluminum

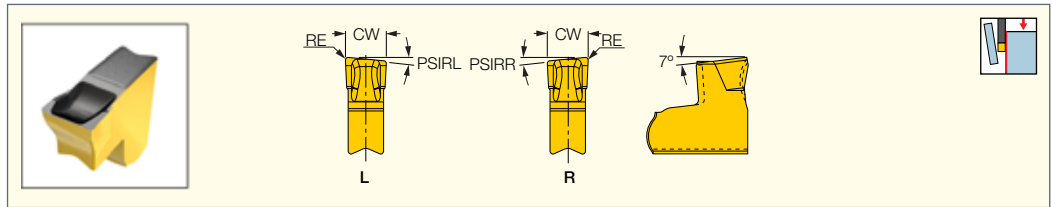


Designation	Dimensions				IC20	Recommended Machining Data
	CW	RE	CWTOL ⁽¹⁾	RETOL ⁽²⁾		
TAG N2A	.079	.008	.0000	.0020	•	.0008-.0039
TAG N3A	.120	.008	.0000	.0020	•	.0012-.0055
TAG N4A	.159	.009	.0000	.0020	•	.0012-.0063

⁽¹⁾ Cutting width tolerance (+/-)

⁽²⁾ Corner radius tolerance (+/-)

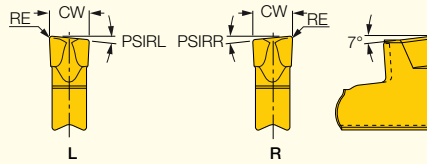
TAG R/L-C

 Single-Ended Inserts for Parting
 Bars, Hard Materials and
 Tough Parting Applications


Designation	Dimensions						Tough ↔ Hard					Recommended Machining Data
	CW	CWTOL ⁽¹⁾	RE	fa	PSIRR	PSIRL	IC830	IC928	IC808	IC908	IC30N	
TAG R/L2C-6D	.081	.0039	.008	6.0	-	6.0	•		•			.0016-.0047
TAG R2.4C-8D	.094	.0039	.006	8.0	8.0	-			•			.0020-.0051
TAG R/L3C-6D	.118	.0039	.008	6.0	-	6.0	•	•	•	•		.0031-.0071
TAG R3C-8D	.118	.0039	.008	8.0	8.0	-					•	.0024-.0063
TAG R/L3C-15D	.118	.0039	.008	15.0	-	15.0	•	•	•	•		.0031-.0063
TAG R/L4C-4D	.159	.0039	.009	4.0	-	4.0	•	•	•	•		.0031-.0079
TAG R/L5C-4D	.199	.0039	.010	4.0	-	4.0	•		•			.0039-.0098
TAG R/L6.3C-4D	.250	.0039	.014	4.0	-	4.0	•		•			.0047-.0118

⁽¹⁾ Cutting width tolerance (+/-)


TAG R/L-J/JS

 TANG-GRIP Inserts for Parting
 Soft Materials, Tubes, Small
 Diameters and Thin-Walled Parts


Designation	Dimensions					Tough $\longleftrightarrow$ Hard					Recommended Machining Data
	CW	RE	fa	PSIRL	PSIRR	IC830	IC928	IC808	IC908	IC807	
TAG R/L1.4J-8D	.055	.006	8.0	8.0	-	●		●		●	.0012-.0031
TAG R/L1.4JS-10D ⁽¹⁾	.055	.001	10.0	10.0	-	●		●		●	.0008-.0024
TAG R/L2J-6D	.079	.008	6.0	6.0	-	●		●			.0012-.0039
TAG R/L2JS-6D ⁽¹⁾	.079	.001	6.0	6.0	-	●		●			.0008-.0031
TAG R/L2J-15D	.079	.008	15.0	15.0	-	●		●			.0012-.0031
TAG R/L2JS-15D ⁽¹⁾	.079	.001	15.0	15.0	-	●		●			.0008-.0024
TAG R/L3J-6D	.118	.008	6.0	6.0	-	●	●	●	●		.0016-.0055
TAG R/L3JS-6D ⁽¹⁾	.118	.001	6.0	6.0	-	●		●			.0012-.0039
TAG R/L3J-15D	.118	.008	15.0	15.0	-	●	●	●	●		.0016-.0047
TAG R/L3JS-15D ⁽¹⁾	.118	.001	15.0	15.0	-	●		●			.0012-.0031
TAG R/L4J-4D	.157	.009	4.0	4.0	-	●	●	●	●		.0016-.0059
TAG R/L5J-4D	.199	.010	4.0	4.0	-	●		●			.0020-.0071
TAG R/L6.3J-4D	.250	.014	4.0	4.0	-	●		●			.0020-.0079

⁽¹⁾ Sharp corners cannot be used on TGSF slitting cutters


ISCAR's Unique, Innovative,



DO-GRIP



Double-Sided
Twisted Parting Insert
with no Depth of
Cut Limitation



PENTA IQGRIP
PARTING LINE



Powerful Insert with
5 Edges for Accurate
Parting and Grooving
Operations



Trendsetting Parting Systems



TANG-GRIP IQ
350 LINE



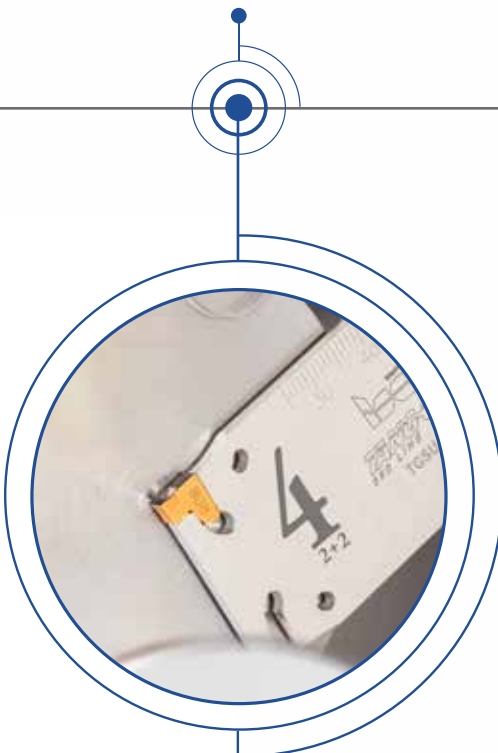
New Flat Top Tools
Engineered for Easy
Chip Flow and
Higher Productivity

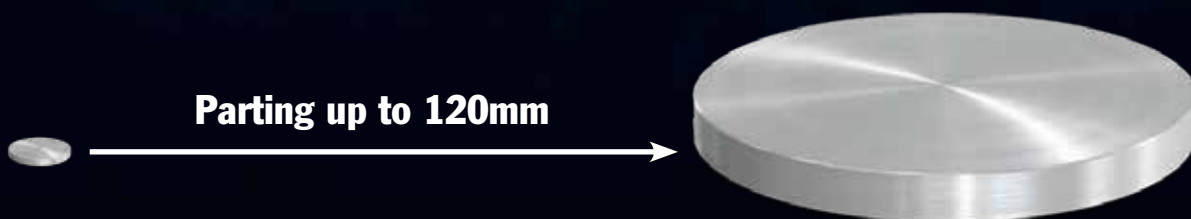


TANG FGRIP
HIGH FEED PARTING



Reinforced and Robust
Tool Provides
Extra Stability and
Higher Productivity





**Parting from the Smallest to the Largest Diameter
with ISCAR's Square Blades**

