

Guaranteed Supreme Tool Life and Easy Chip Evacuation!

TANG-GRIP IQ
350 LINE

Member IMC Group

ISCAR
TANG-GRIP
350 LINE
TGSU 350

808

4
2+2



TANG-GRIP
PARTING LINE



TANG-GRIP
FACE MACHINING LINE



SUMO-GRIP
HEAVY DUTY LINE

Member IMC Group
ISCAR
www.iscar.com

Engineered for
MAXIMUM
 PARTING Performance

TANG-GRIP IQ

350 LINE



Market Standard

Free Chip Flow



NEW
 $2+2 \text{ Free} = 4$

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

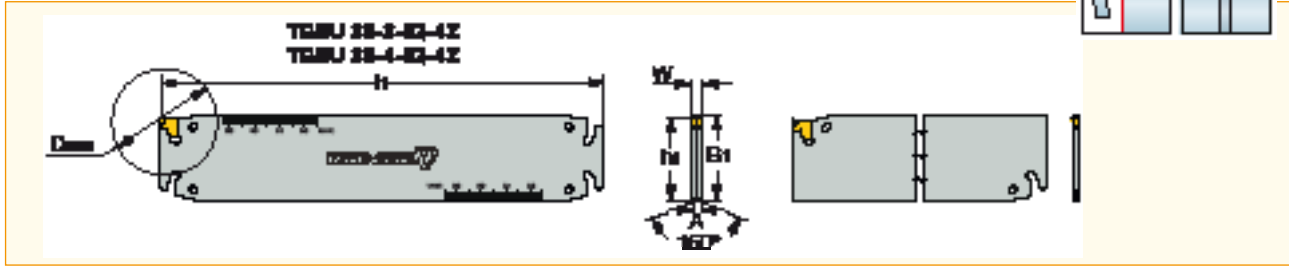
Featuring Longer Tool Life!

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

**IMPROVED BLADE
 GEOMETRY FEATURING
 LONGER TOOL LIFE
 AND HIGHER PRODUCTIVITY**

TGSU

Flat Top Blades with Tangentially Oriented Pocket for Parting and Grooving, for TANG-GRIP Single-Ended Inserts



NEW
NEW

Designation	B ₁	W _{min}	W _{max}	A	l ₁	h ₁	D _{max}	Insert
TGSU 35-1.4-IQ	35.0	1.40	1.40	2.50 ⁽²⁾	180.00	33.2	35.0	TAG 1.4
TGSU 35-2-IQ	35.0	1.80	2.40	2.50 ⁽³⁾	160.00	33.2	59.5	TAG 2
TGSU 35-3-IQ-4	35.0	2.80	3.50	2.50	180.00	33.2	120.0	TAG 3
TGSU 35-4-IQ-4	35.0	3.70	4.50	3.40	180.00	33.2	120.0	TAG 4
TGSU 35-5-IQ	35.0	4.70	5.50	4.00	180.00	33.2	144.0	TAG 5
TGSU 35-6-IQ	35.0	5.70	6.50	5.20	180.00	33.2	144.0	TAG 6
TGSU 35-7-IQ	35.0	6.80	7.50	6.00	180.00	33.2	144.0	TAG 7
TGSU 35C-8-IQ ⁽¹⁾	35.0	7.70	8.50	7.20	180.00	33.2	144.0	TAG 8
TGSU 35C-9-IQ ⁽¹⁾	35.0	8.70	10.00	8.20	180.00	33.2	144.0	TAG 9
TGSU 56C-7-IQ ⁽¹⁾	56.0	6.80	7.50	6.00	260.00	53.6	220.0	TAG 7
TGSU 56C-8-IQ ⁽¹⁾	56.0	7.70	8.50	7.20	260.00	53.6	220.0	TAG 8
TGSU 56C-9-IQ ⁽¹⁾	56.0	8.70	10.00	8.20	260.00	53.6	220.0	TAG 9

⁽¹⁾ C- Internal coolant, use with TGTBU HD blocks only. Cooling tube SGCU 341 should be ordered separately. ⁽²⁾ Thickness at the D.O.C. area is 1.05 mm ⁽³⁾ Thickness at the D.O.C. area is 1.65 mm

Spare Parts

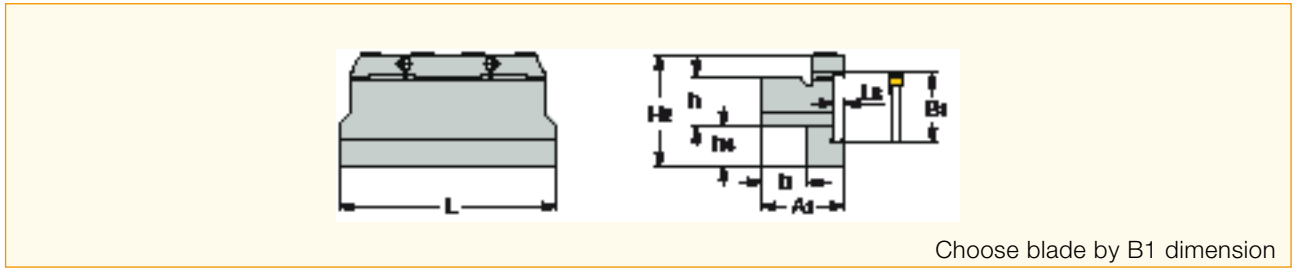
Designation	Extractor	Cooling Tube
TGSU 35-1.4-IQ	ETG 1.4/1.6*	
TGSU 35-2-IQ	ETG 2*	
TGSU 35-3-IQ-4Z	ETG 3-4-SH*	
TGSU 35-4-IQ-4Z	ETG 3-4-SH*	
TGSU 35-5-IQ	ETG 5-7*	
TGSU 35-6-IQ	ETG 5-7*	
TGSU 35-7-IQ	ETG 5-7*	
TGSU 35C-8-IQ	ETG 8-12*	SGCU 341*
TGSU 35C-9-IQ	ETG 8-12*	SGCU 341*
TGSU 56C-7-IQ	ETG 5-7*	SGCU 341*
TGSU 56C-8-IQ	ETG 8-12*	SGCU 341*
TGSU 56C-9-IQ	ETG 8-12*	SGCU 341*

* Optional, should be ordered separately



TGTBU

Blocks for TGSU Parting and Grooving Blades



Choose blade by B1 dimension

Designation	h	b	B ₁	L ₃	A ₁	H ₂	h ₄	L
TGTBU 20-35	20.0	19.0	35.0	6.00	38.00	56.0	23.7	110.00
TGTBU 25-35	25.0	23.0	35.0	6.00	42.00	56.0	18.7	110.00
TGTBU 32-35	32.0	29.0	35.0	6.00	48.00	56.0	11.7	110.00
TGTBU 32-35 HD ⁽¹⁾	32.0	30.0	35.0	8.00	55.00	64.0	18.0	130.00
TGTBU 40-35	40.0	41.0	35.0	6.00	60.00	56.0	3.7	110.00
TGTBU 40-35 HD ⁽¹⁾	40.0	41.0	35.0	8.00	66.00	64.0	10.0	130.00
TGTBU 40-56 HD ⁽¹⁾	40.0	41.0	56.0	8.00	66.00	72.0	28.0	130.00

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

Spare Parts



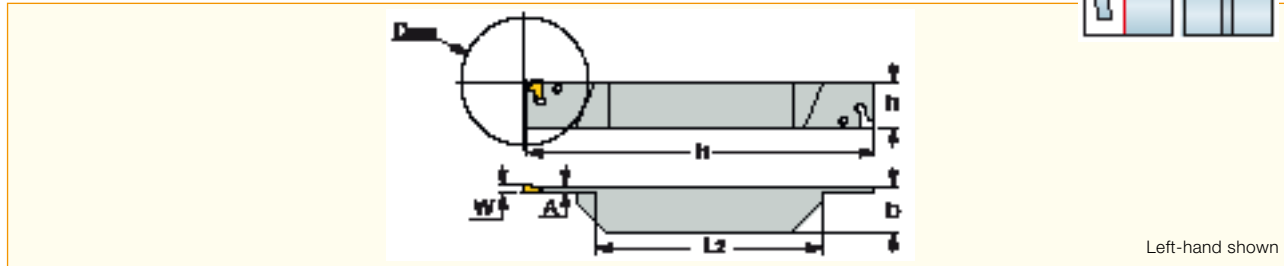
Designation	Top Clamp	Screw	Key
TGTBU 20-35	BKU 110	SR M6X30DIN912 12.9	HW 5.0
TGTBU 25-35	BKU 110	SR M6X30DIN912 12.9	HW 5.0
TGTBU 32-35	BKU 110	SR M6X30DIN912 12.9	HW 5.0
TGTBU 32-35 HD	BK 509	SR M8X30DIN912 12.9	HW 6.0
TGTBU 40-35	BKU 110	SR M6X30DIN912 12.9	HW 5.0
TGTBU 40-35 HD	BK 509	SR M8X30DIN912 12.9	HW 6.0
TGTBU 40-56 HD	BK 509	SR M8X30DIN912 12.9	HW 6.0



TGTR/L-IQ-2Z

Integral Shank, TANG-GRIP Parting and Grooving Toolholders

with 2 Pockets



Designation	W min	W max	D max	h	b	A	l ₁	L ₂
TGTR/L 2020-3-IQ-2Z	2.80	3.50	54.0	20.0	20.0	2.50	150.00	98.00
TGTR/L 2525-3-IQ-2Z	2.80	3.50	56.0	25.0	25.0	2.50	150.00	98.00
TGTR/L 2020-4-IQ-2Z	3.70	4.50	57.0	20.0	20.0	3.40	150.00	95.00
TGTR/L 2525-4-IQ-2Z	3.70	4.50	65.0	25.0	25.0	3.40	150.00	88.00

Spare Parts



Designation	Extractor
TGTR/L-IQ-2Z	ETG 3-4-SH*

* Optional, should be ordered separately

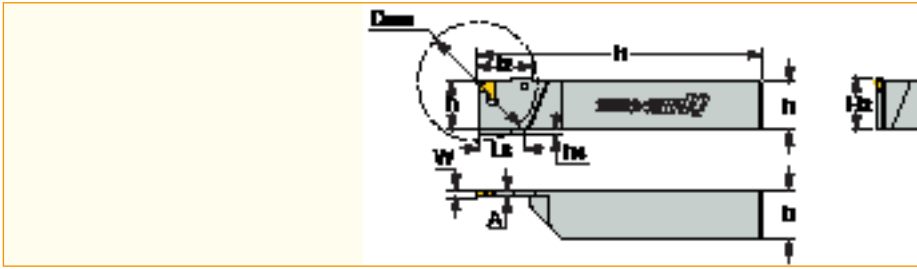
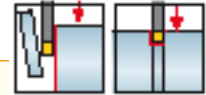


**IMPROVED
GEOMETRY FEATURING
LONGER TOOL LIFE**



TGTR/L-IQ

Integral Shank, TANG-GRIP Parting and Grooving Toolholder



Left-hand shown

Designation	W _{min}	W _{max}	h	b	A	l ₁	H ₂	l ₂	L ₃	h ₄	D _{max}	Insert
TGTR/L 1010-1.4-IQ	1.40	1.45	10.0	10.0	1.05	140.00	15.0	-	15.50	5.0	20.0	TAG 1.4
TGTR/L 1212-1.4-IQ	1.40	1.45	12.0	12.0	1.05	140.00	12.0	-	16.00	3.0	30.0	TAG 1.4
TGTR/L 1616-1.4-IQ	1.40	1.45	16.0	16.0	1.05	140.00	16.0	-	-	-	30.0	TAG 1.4
TGTR/L 2020-1.4-IQ	1.40	1.45	20.0	20.0	1.05	140.00	20.0	-	-	-	30.0	TAG 1.4
TGTR/L 1010-1.6-IQ	1.60	1.64	10.0	10.0	1.30	120.00	-	-	16.00	5.0	28.0	TAG 1.6
TGTR/L 1212-1.6-IQ	1.60	1.64	12.0	12.0	1.30	120.00	-	-	16.00	3.0	32.0	TAG 1.6
TGTR/L 1616-1.6-IQ	1.60	1.64	16.0	16.0	1.30	120.00	-	-	-	-	35.0	TAG 1.6
TGTR/L 1010-2-IQ	1.80	2.40	10.0	10.0	1.65	150.00	15.0	-	15.50	5.0	28.0	TAG 2
TGTR/L 1212-2-IQ	1.80	2.40	12.0	12.0	1.65	150.00	15.0	-	17.00	3.0	32.0	TAG 2
TGTR/L 1612-2-L120-IQ	1.80	2.50	16.0	12.0	1.65	120.00	16.0	-	-	-	35.0	TAG 2
TGTR/L 1616-2-IQ	1.80	2.40	16.0	16.0	1.65	150.00	16.0	-	-	-	35.0	TAG 2
TGTR/L 2012-2-IQ	1.80	2.40	20.0	12.0	1.65	125.00	20.0	-	-	-	35.0	TAG 2
TGTR/L 1212-3-IQ	2.80	3.50	12.0	12.0	2.50	150.00	19.0	-	19.00	7.0	32.0	TAG 3
TGTR/L 1612-3-L120-IQ	2.80	3.50	16.0	12.0	2.50	120.00	19.0	-	19.00	3.0	35.0	TAG 3
TGTR/L 1616-3-IQ	2.80	3.50	16.0	16.0	2.50	150.00	19.0	-	19.00	3.0	35.0	TAG 3
TGTR/L 2012-3-IQ	2.80	3.50	20.0	12.0	2.50	125.00	20.0	-	-	-	43.0	TAG 3
TGTR/L 2020-3-IQ	2.80	3.50	20.0	20.0	2.50	120.50	21.7	23.4	-	-	54.0	TAG 3
TGTR/L 2525-3-IQ	2.80	3.50	25.0	25.0	2.50	150.50	26.7	23.4	-	-	56.0	TAG 3
TGTR 2525K-3 ⁽¹⁾	2.80	3.50	25.0	25.0	2.50	150.00	26.7	23.4	-	-	56.0	TAG 3
TGTR/L 2020-4-IQ	3.70	4.50	20.0	20.0	3.40	120.50	21.7	23.4	-	-	57.0	TAG 4
TGTR/L 2525-4-IQ	3.70	4.50	25.0	25.0	3.40	150.50	26.7	23.4	-	-	65.0	TAG 4
TGTR/L 2020-5-IQ	4.70	5.50	20.0	20.0	4.00	120.00	21.7	-	-	-	57.0	TAG 5
TGTR/L 2525-5-IQ	4.70	5.50	25.0	25.0	4.00	150.00	25.0	-	-	-	76.0	TAG 5
TGTR/L 2525-6-IQ	5.70	6.50	25.0	25.0	5.20	150.00	25.0	-	-	-	76.0	TAG 6

⁽¹⁾ With coolant

Spare Parts



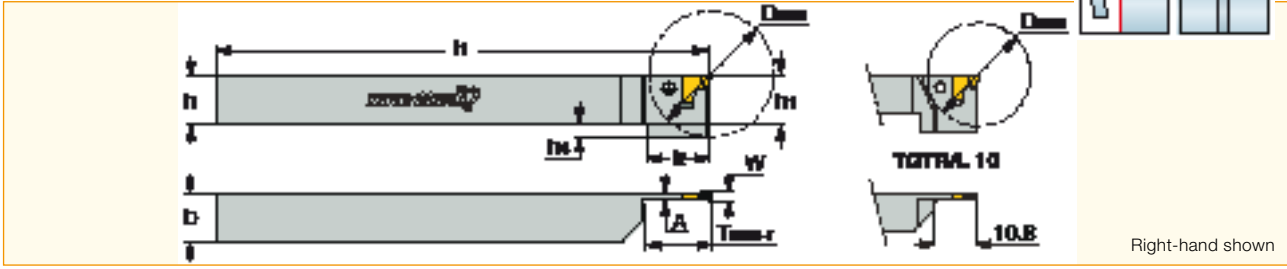
Designation	Extractor
TGTR/L 1010-1.4-IQ	ETG 1.4/1.6*
TGTR/L 1212-1.4-IQ	ETG 1.4/1.6*
TGTR/L 1616-1.4-IQ	ETG 1.4/1.6*
TGTR/L 2020-1.4-IQ	ETG 1.4/1.6*
TGTR/L 1010-1.6-IQ	ETG 1.4/1.6*
TGTR/L 1212-1.6-IQ	ETG 1.4/1.6*
TGTR/L 1616-1.6-IQ	ETG 1.4/1.6*
TGTR/L 1010-2-IQ	ETG 2*
TGTR/L 1212-2-IQ	ETG 2*
TGTR/L 1612-2-L120-IQ	ETG 2*
TGTR/L 1616-2-IQ	ETG 2*
TGTR/L 2012-2-IQ	ETG 2*
TGTR/L 1212-3-IQ	ETG 3-4-SH*
TGTR/L 1612-3-L120-IQ	ETG 3-4-SH*
TGTR/L 1616-3-IQ	ETG 3-4-SH*
TGTR/L 2012-3-IQ	ETG 3-4-SH*
TGTR/L 2020-3-IQ	ETG 3-4*
TGTR/L 2525-3-IQ	ETG 3-4*
TGTR 2525K-3	ETG 3-4*
TGTR/L 2020-4-IQ	ETG 3-4*
TGTR/L 2525-4-IQ	ETG 3-4*
TGTR/L 2020-5-IQ	ETG 5-7*
TGTR/L 2525-5-IQ	ETG 5-7*
TGTR/L 2525-6-IQ	ETG 5-7*

* Optional, should be ordered separately



TGTR/L-2T..SH-L120

Integral Shank, Short-Head TANG-GRIP Parting and Grooving Toolholder



Designation	W	W _{min}	W _{max}	h	h ₁	b	A	l ₁	l ₂	h ₄	T _{max-r}	D _{max} ⁽¹⁾
TGTR/L 1010-2T10SH-L120-IQ	2.00	1.80	2.50	10.0	10.1	10.0	1.65	120.00	15.0	5.0	10.00	26.0
TGTR/L 1212-2T15SH-L120-IQ	2.00	1.80	2.50	12.0	12.1	12.0	1.65	120.00	15.0	3.0	15.00	30.0
TGTR/L 1616-2T18SH-L120-IQ	2.00	1.80	2.50	16.0	16.1	16.0	1.65	120.00	-	-	18.00	36.0

⁽¹⁾ For parting

Spare Parts



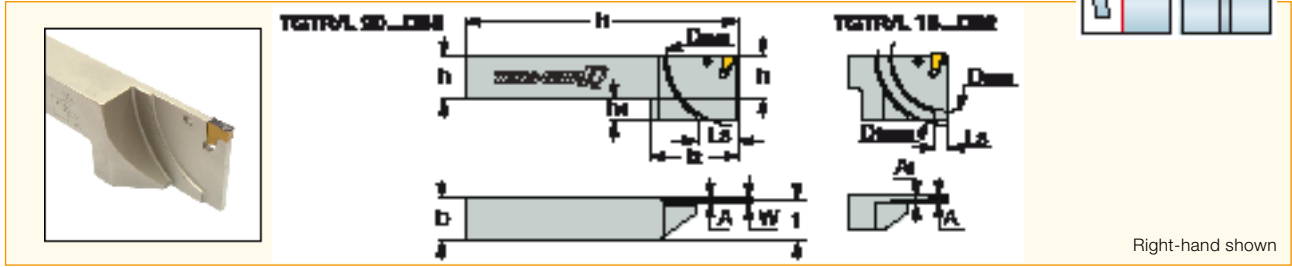
Designation	Extractor
TGTR/L-2T..SH-L120	ETG 2-SH-T*

* Optional, should be ordered separately



TGTR/L-D

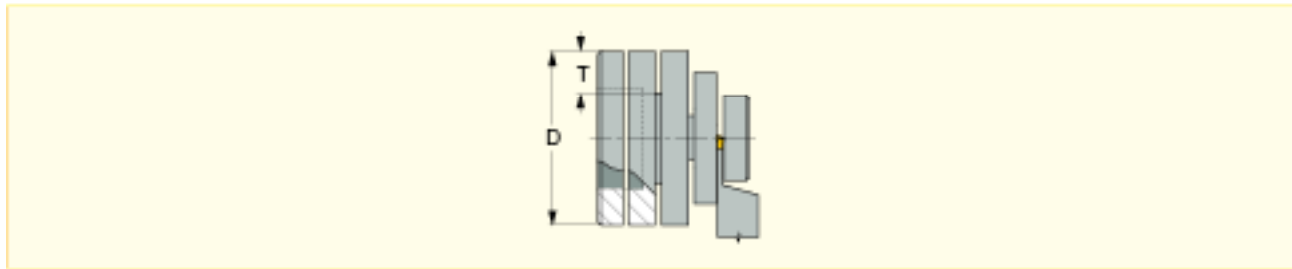
Integral Shank TANG-GRIP Parting and Grooving Toolholders with Reinforced Blades, Mainly for Sub-Spindle Machines



Designation	W	W _{min}	W _{max}	h	b	A	A ₁	l ₁	l ₂	f	h ₄	D _{max}	D _{1 max}	L ₃
TGTR/L 1616-2-D52-IQ	2.00	1.80	2.40	16.0	16.0	1.65	3.50	125.00	40.0	15.2	14.0	52.0	65.0	6.00
TGTR/L 2020-2-D65-IQ	2.00	1.80	2.40	20.0	20.0	1.65	-	125.00	40.0	19.2	10.0	65.0	-	18.00
TGTR/L 1616-3-D52-IQ	3.00	2.80	3.50	16.0	16.0	2.50	3.50	125.00	40.0	14.8	14.0	52.0	65.0	6.00
TGTR/L 2020-3-D65-IQ	3.00	2.80	3.50	20.0	20.0	2.50	-	125.00	40.0	18.8	10.0	65.0	-	18.00

Depth Capacity DGTR/L-D

Table determining depth of cut as function of workpiece diameter



Designation	T _{max}									
TGTR/L 1616-2-D52-IQ	26	19	16	15	13	11	10	9	8	
TGTR/L 2020-2-D65-IQ		32.5	31	29	26	24	23	22	20	
TGTR/L 1616-3-D52-IQ	26	20	17	15	13	11	10	9	8	
TGTR/L 2020-3-D65-IQ		32.5	31	29	26	24	23	22	20	

D → 52 65 70 80 100 120 150 200 300

Spare Parts



Designation	Extractor
TGTR/L 1616-2-D52-IQ	ETG 2*
TGTR/L 2020-2-D65-IQ	ETG 2*
TGTR/L 1616-3-D52-IQ	ETG 3-4-SH*
TGTR/L 2020-3-D65-IQ	ETG 3-4-SH*

* Optional, should be ordered separately



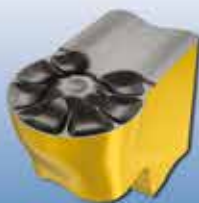


NEW
2+2 Free=4

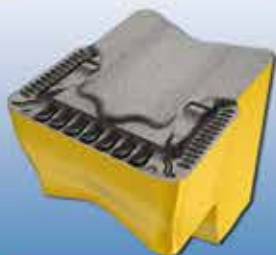
SUMO-GRIP

HEAVY DUTY LINE

Engineered for
Maximum
Groove Turning
Performance



6mm



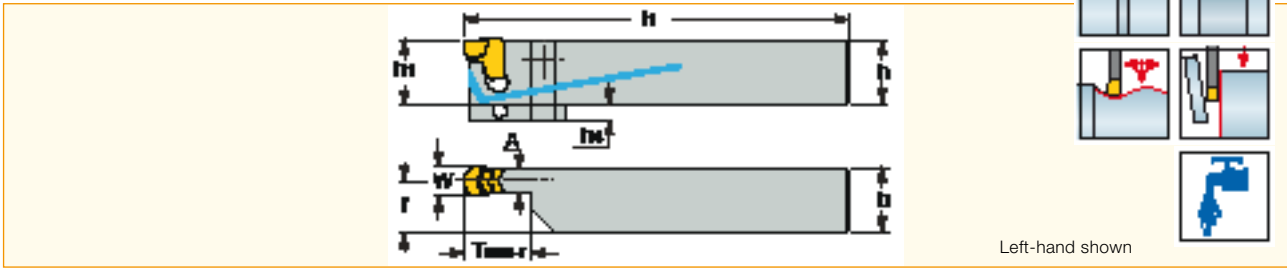
14mm

Heavy Duty Groove-Turn Applications

Single-ended inserts for heavy grooving, turning and parting applications, with the tangentially oriented clamping design for extra rigidity required for heavy grooving and turning conditions.

SUMO-GRIP System Features

- Tangentially oriented pocket, providing a very rigid and secure clamping.
- Enables machining at very high feed rates (up to 1.0 mm/Rev).
- Recommended for machining large diameter parts and for heavy interrupted cuts.
- Offers a free, unobstructed chip flow, since there is no upper jaw as in the other clamping systems.
- The combination of tangential clamping and free chip flow results in improved insert and tool life and higher feed rates, which significantly increases productivity.
- Internal cooling system is directed to the frontal cutting edge, increasing the tool life in deep grooving applications.



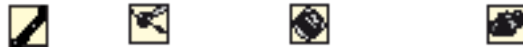
Designation	W	h	h ₁	b	A	l _i	T _{max-r}	f	h ₄
TGBHR/L 20C-6	6.00	20.0	20.0	20.0	5.20	135.00	12.00 ⁽¹⁾	17.4	5.0
TGBHR/L 25C-6	6.00	25.0	25.0	25.0	5.20	135.00	12.00 ⁽¹⁾	22.4	-
TGBHR/L 25C-8	8.00	25.0	25.0	25.0	7.00	150.00	25.00	21.5	12.0
TGBHR/L 32C-8	8.00	32.0	32.0	32.0	7.00	170.00	30.00	28.5	5.0
TGBHR/L 25C-10	10.00	25.0	25.0	25.0	8.00	150.00	25.00	21.0	12.0
TGBHR/L 32C-10	10.00	32.0	32.0	32.0	8.00	170.00	30.00	28.0	5.0
TGBHR/L 25C-12	12.00	25.0	25.0	25.0	10.00	150.00	25.00	20.0	12.0
TGBHR/L 32C-12	12.00	32.0	32.0	32.0	10.00	170.00	30.00	27.0	5.0
TGBHR/L 25C-14T20	14.00	25.0	25.0	25.0	12.00	140.00	20.00	19.0	12.0
TGBHR/L 32C-14T40	14.00	32.0	32.0	32.0	12.00	170.00	40.00	26.0	5.0
TGBHR/L 40C-14T40	14.00	40.0	40.0	40.0	12.00	170.00	40.00	34.0	-

The tools for the 14 mm inserts feature a 1/8" port thread for standard tube fittings.

⁽¹⁾ See table below

TGBHR/L...C-6									
Tmax	28	26	24	22	20	18	16	14	12
Dmax	35	55	75	100	120	150	200	350	-

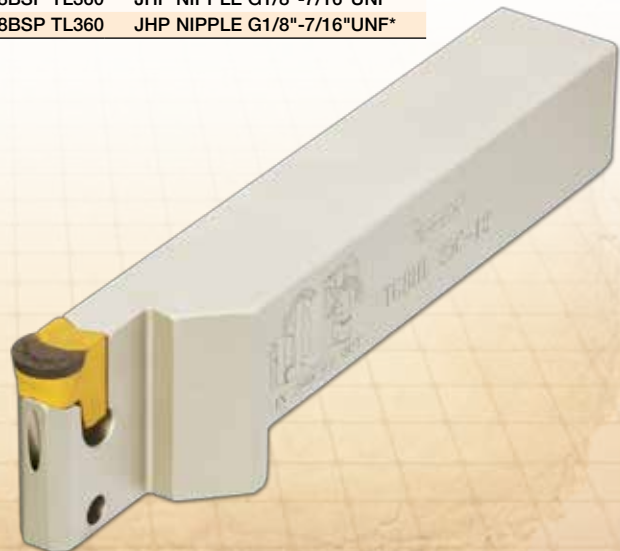
Spare Parts



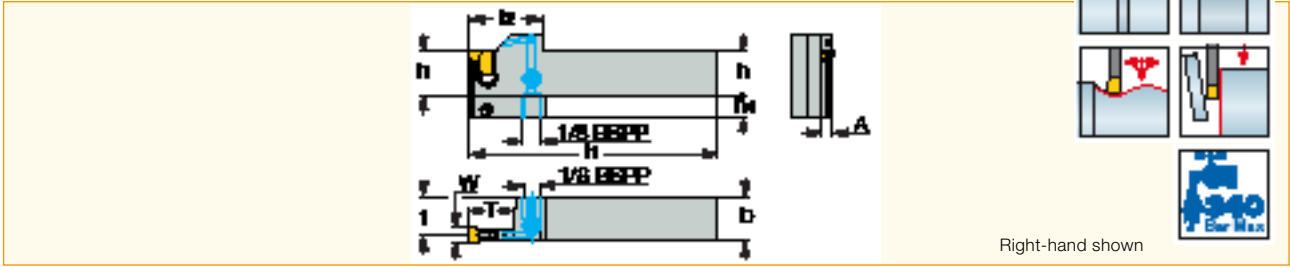
Designation	Extractor	Cooling Tube	Plug	Pipe Fitting
TGBHR/L 20C-6	ETG 5-7*	SGCU 341*		
TGBHR/L 25C-6	ETG 5-7*	SGCU 341*		
TGBHR/L 25C-8	ETG 8-12*	SGCU 341*		
TGBHR/L 32C-8	ETG 8-12*	SGCU 341*		
TGBHR/L 25C-10	ETG 8-12*	SGCU 341*		
TGBHR/L 32C-10	ETG 8-12*	SGCU 341*		
TGBHR/L 25C-12	ETG 8-12*	SGCU 341*		
TGBHR/L 32C-12	ETG 8-12*	SGCU 341*		
TGBHR/L 25C-14T20	ETG 8-12*		PLG 1/8BSP TL360	JHP NIPPLE G1/8"-7/16"UNF*
TGBHR/L 32C-14T40	ETG 8-12*		PLG 1/8BSP TL360	JHP NIPPLE G1/8"-7/16"UNF*
TGBHR/L 40C-14T40	ETG 8-12*		PLG 1/8BSP TL360	JHP NIPPLE G1/8"-7/16"UNF*

* Optional, should be ordered separately

NEW
IMPROVED TOOL
GEOMETRY FEATURING
LONGER TOOL LIFE



Grooving and Turning SUMO-GRIP Tools with Channels for High Pressure Coolant



Designation	h	W	b	l ₂	A	l ₁	T _{max-r}	f	h ₄
TGBHR/L 25-8-JHP	25.0	8.00	25.0	42.0	7.00	150.00	25.00	21.5	12.0
TGBHR/L 32-8-JHP	32.0	8.00	32.0	42.0	7.00	170.00	25.00	28.5	12.0

Flow Rate vs. Pressure




Designation	70 Bar Flow Rate (liters/min)	100 Bar Flow Rate (liters/min)	140 Bar Flow Rate (liters/min)
TGBHR/L 25-8-JHP	13-16	19-21	22-24
TGBHR/L 32-8-JHP	13-16	19-21	22-24

ETG 8-12 Extractor for 8 to 12.7 mm Inserts



* Optional, should be ordered separately

Spare Parts

Designation	 Extractor	 Plug	 Key
TGBHR/L-JHP	ETG 8-12*	PLG 1/8ISO1179	HW 5.0



Heavy Duty
GROOVE TURN
Applications



Engineered for
**MAXIMUM
GROOVE TURNING**
Performance

Engineered for
MAXIMUM
FACE GROOVING Performance

TANG-GRIP

FACE MACHINING LINE

NEW

**SECURE CLAMPING
FOR HIGH PRODUCTIVITY
FACE MACHINING**



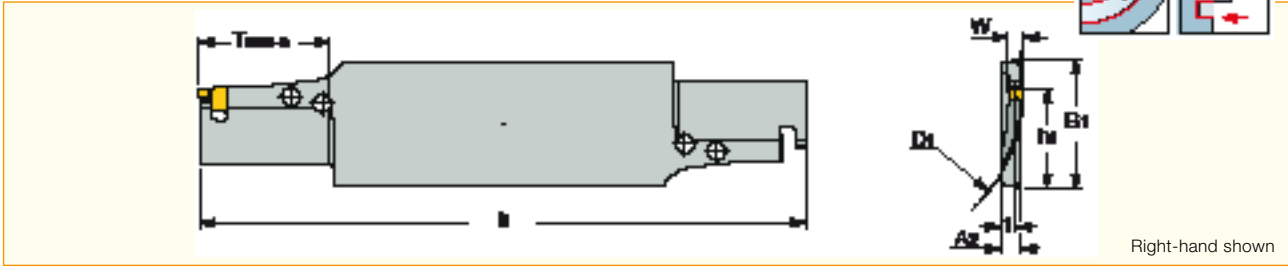
TANG-GRIP Tangentially Clamped Single-Ended Inserts for Face Grooving

System Features

- Very rigid clamping in a tangentially oriented pocket
- Designed for face grooving in 25 to 500 mm diameter range penetration
- Enables machining at very high feed rates and interrupted cuts, providing excellent surface finish
- Offers a free, unobstructed chip flow, since there is no upper jaw as in the other clamping systems (very important in deep grooving applications)
- The combination of tangential clamping and free chip flow results in very high reliability, improved tool and pocket life
- Provides a solution to the problem of inserts being pulled out during retraction

- The same insert can be used for both right- and left-hand tools
- The combination of the C, M & P-type chipformer and the **SUMO TEC** grade IC808 provides excellent performance on a wide range of materials and cutting conditions
- The new tools are equipped with a user-friendly clamping and extraction device

TANG-GRIP FACE MACHINING LINE includes single and double-ended blades and adapters in 3 and 4 mm widths in the most advanced IC808 **SUMO TEC** grade. The blades are in a standard size, which fit ISCAR's standard blocks.



Designation	W	D1 min ⁽¹⁾	D1 max ⁽²⁾	T _{max-a}	h1	B1	f	A2	l1
TNFFH 65R/L-3IQ	3.00	65.0	90.0	18.00	24.8	32.0	4.1	5.2	150.00
TNFFH 90R/L-3IQ	3.00	90.0	120.0	18.00	24.8	32.0	4.1	5.2	150.00
TNFFH 120R/L-3IQ	3.00	120.0	160.0	24.00	24.8	32.0	4.1	5.2	150.00
TNFFH 80R/L-4IQ	4.00	80.0	150.0	32.00	24.8	32.0	3.8	5.2	150.00
TNFFH 150R/L-4IQ	4.00	150.0	500.0	32.00	24.8	32.0	3.8	5.2	150.00
TNFFH 80R/L-5IQ	5.00	80.0	150.0	30.00	24.8	32.0	3.5	5.2	150.00
TNFFH 150R/L-5IQ	5.00	150.0	500.0	35.00	24.8	32.0	3.5	5.2	150.00
TNFFH 80R/L-6IQ	6.00	80.0	150.0	30.00	24.8	32.0	3.3	5.2	150.00
TNFFH 150R/L-6IQ	6.00	150.0	700.0	35.00	24.8	32.0	3.3	5.2	150.00

• B1 dimension links blades and blocks

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

Spare Parts



Designation	Extractor
TNFFH-IQ	ETF 3-6*

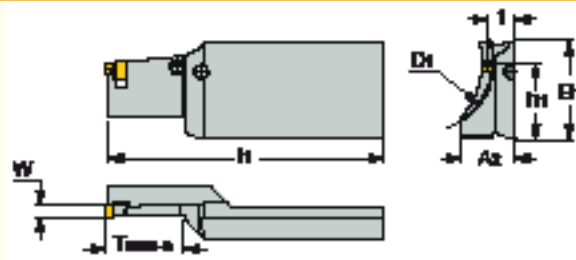
* Optional, should be ordered separately

HIGH LINE
MACHINING INTELLIGENTLY

NEW
SECURE CLAMPING
FOR HIGH PRODUCTIVITY
FACE MACHINING



ETF 3-6 extractor (should be ordered separately).



Right-hand shown

Designation	W	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	T _{max-a}	B ₁	f	h ₁	l ₁	A ₂
TNFFA 30R/L-3IQ	3.00	30.0	35.0	19.00	32.0	9.5	24.8	90.00	18.5
TNFFA 35R/L-3IQ	3.00	35.0	40.0	19.00	32.0	9.5	24.8	90.00	18.5
TNFFA 40R/L-3IQ	3.00	40.0	46.0	23.00	32.0	9.5	24.8	90.00	18.5
TNFFA 46R/L-3IQ	3.00	46.0	54.0	25.00	32.0	9.5	24.8	90.00	18.5
TNFFA 54R/L-3IQ	3.00	54.0	65.0	26.00	32.0	9.5	24.8	90.00	18.5
TNFFA 65R/L-3IQ	3.00	65.0	80.0	27.00	32.0	9.5	24.8	90.00	18.5
TNFFA 80R/L-3IQ	3.00	80.0	100.0	27.00	32.0	9.5	24.8	90.00	16.7
TNFFA 35R/L-4IQ	4.00	35.0	45.0	25.00	32.0	9.0	24.8	90.00	18.1
TNFFA 45R/L-4IQ	4.00	45.0	60.0	25.00	32.0	9.0	24.8	90.00	17.3
TNFFA 60R/L-4IQ	4.00	60.0	80.0	27.00	32.0	9.0	24.8	90.00	18.0
TNFFA 80R/L-4IQ	4.00	80.0	130.0	27.00	32.0	9.0	24.8	90.00	14.8
TNFFA 40R/L-5IQ	5.00	45.0	50.0	25.00	32.0	9.7	24.8	90.00	18.0
TNFFA 50R/L-5IQ	5.00	60.0	70.0	28.00	32.0	9.7	24.8	90.00	18.0
TNFFA 70R/L-5IQ	5.00	80.0	100.0	30.00	32.0	9.7	24.8	90.00	18.0
TNFFA 100R/L-5IQ	5.00	100.0	180.0	35.00	32.0	9.7	24.8	90.00	18.0
TNFFA 45R/L-6IQ	6.00	45.0	60.0	25.00	32.0	10.2	24.8	90.00	18.0
TNFFA 60R/L-6IQ	6.00	60.0	80.0	28.00	32.0	10.2	24.8	90.00	18.0
TNFFA 80R/L-6IQ	6.00	75.0	110.0	30.00	32.0	10.2	24.8	90.00	18.0
TNFFA 110R/L-6IQ	6.00	100.0	300.0	35.00	32.0	10.2	24.8	90.00	18.0

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

Spare Parts



Designation	Extractor
TNFFA-IQ	ETF 3-6*

* Optional, should be ordered separately

NEW
SECURE CLAMPING
FOR HIGH PRODUCTIVITY
FACE MACHINING





Engineered for
**MAXIMUM
FACE GROOVING**
Performance

STANDARD PARTING & GROOVING Tools

TANG-GRIP
PARTING LINE



Tangentially Clamped, Single-Ended Parting System

TAG Insert Features

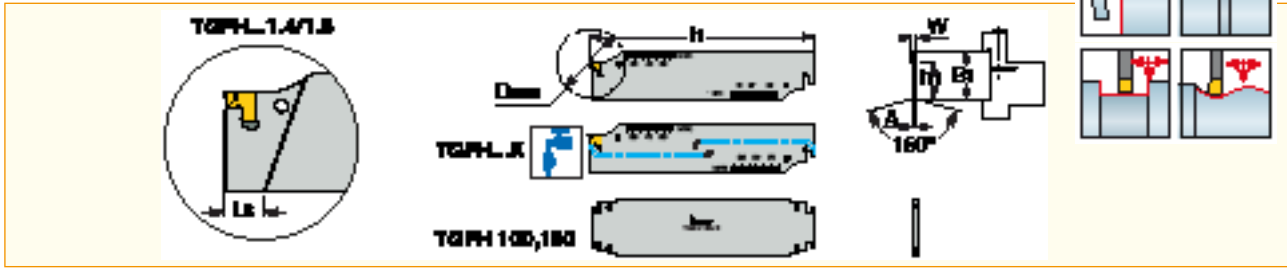
- Very rigid clamping in a tangentially oriented pocket
- Enables machining at very high feed rates and provides excellent straightness and surface finish
- Recommended for parting large diameter parts and for interrupted cuts
- Offers a free, unobstructed chip flow, since there is no upper jaw as in the other clamping systems (very important in deep grooving and parting applications)
- The combination of tangential clamping and free chip flow results in improved tool and insert lifetime
- Provides a solution to the problem of inserts being pulled out during retraction



TAG inserts are available with a wide range of chipformers, with neutral and angular frontal cutting edges. The new tools are equipped with a user-friendly clamping and extraction device.

The **TANG-GRIP** family includes square shank tools, blades and inserts in 1.4-12.7 mm widths in the most advanced IC830 and IC808 **SUMO TEC** grades. The blades are in standard sizes which fit ISCAR's standard blocks.

Blades with Tangentially Oriented Pocket for Parting and Grooving,
for TANG-GRIP Single-Ended Inserts



Designation	B ₁	W _{min}	W _{max}	A	l ₁	L ₃	h ₁	D _{max}	Coolant	Insert
TGFH 19-1.4	19.0	1.40	1.40	1.05 ⁽²⁾	86.00	9.60	15.7	30.0	-	TAG 1.4
TGFH 19-1.6	19.0	1.60	1.60	1.30 ⁽³⁾	86.00	11.00	15.7	32.0	-	TAG 1.6
TGFH 19-2	19.0	1.80	2.40	1.65	86.00	-	15.7	38.0	-	TAG 2
TGFH 26-1.4	26.0	1.40	1.40	1.05 ⁽²⁾	110.00	8.30	21.4	29.0	-	TAG 1.4
TGFH 26-1.6	26.0	1.60	1.60	1.30 ⁽³⁾	110.00	10.00	21.4	35.0	-	TAG 1.6
TGFH 26-2	26.0	1.80	2.40	1.65	110.00	-	21.4	50.0	-	TAG 2
TGFH 26-3	26.0	2.80	3.50	2.50	110.00	-	21.4	75.0	-	TAG 3
TGFH 26K-3 ⁽¹⁾	26.0	2.80	3.50	2.50	110.00	-	21.4	75.0	Y	TAG 3
TGFH 26-4	26.0	3.70	4.50	3.40	110.00	-	21.4	80.0	-	TAG 4
TGFH 26-5	26.0	4.70	5.50	4.00	150.00	-	21.4	80.0	-	TAG 5
TGFH 32-1.4	32.0	1.40	1.40	1.05 ⁽²⁾	150.00	7.10	24.8	29.0	-	TAG 1.4
TGFH 32-1.6	32.0	1.60	1.60	1.30 ⁽²⁾	150.00	10.00	24.8	38.0	-	TAG 1.6
TGFH 32-2	32.0	1.80	2.40	2.50 ⁽⁴⁾	150.00	-	24.8	50.0	-	TAG 2
TGFH 32-3	32.0	2.80	3.50	2.50	150.00	-	24.8	100.0	-	TAG 3
TGFH 32K-3 ⁽¹⁾	32.0	2.80	3.50	2.50	150.00	-	24.8	100.0	Y	TAG 3
TGFH 32-4	32.0	3.70	4.50	3.40	150.00	-	24.8	100.0	-	TAG 4
TGFH 32K-4 ⁽¹⁾	32.0	3.70	4.50	3.40	150.00	-	24.8	100.0	Y	TAG 4
TGFH 32-5	32.0	4.70	5.50	4.00	150.00	-	24.8	120.0	-	TAG 5
TGFH 32-6	32.0	5.70	6.50	5.20	150.00	-	24.8	120.0	-	TAG 6
TGFH 32-7	32.0	6.80	7.50	6.00	148.00	-	24.8	120.0	-	TAG 7
TGFH 45-3	45.0	2.80	3.50	2.50	225.00	-	38.1	160.0	-	TAG 3
TGFH 45-4	45.0	3.70	4.50	3.40	225.00	-	38.1	160.0	-	TAG 4
TGFH 45-5	45.0	4.70	5.50	4.00	225.00	-	38.1	160.0	-	TAG 5
TGFH 45-6	45.0	5.70	6.50	5.20	225.00	-	38.1	160.0	-	TAG 6
TGFH 45-7	45.0	6.80	7.50	6.00	225.00	-	38.1	160.0	-	TAG 7
TGFH 52-7	52.6	6.80	7.50	6.00	190.00	-	45.2	190.0	-	TAG 7
TGFH 53-7	52.6	6.80	7.50	6.00	260.00	-	45.2	220.0	-	TAG 7
TGFH 52K-8 ⁽¹⁾	52.6	7.70	8.50	7.20	190.00	-	45.2	190.0	Y	TAG 8
TGFH 53K-8 ⁽¹⁾	52.6	7.70	8.50	7.20	260.00	-	45.2	215.0	Y	TAG 8
TGFH 52K-9 ⁽¹⁾	52.6	8.70	10.00	8.20	190.00	-	45.2	190.0	Y	TAG 9
TGFH 53K-9 ⁽¹⁾	52.6	8.70	10.00	8.20	260.00	-	45.2	215.0	Y	TAG 9
TGFHR/L 53K-12 ⁽¹⁾	52.6	11.70	12.70	10.00	260.00	-	45.2	215.0	Y	TAG 12
TGFH 100-9	100.0	8.70	10.00	8.20	460.00	-	92.5	450.0	-	TAG 9
TGFH 100-12	100.0	11.70	12.70	10.00	460.00	-	92.5	450.0	-	TAG 12
TGFH 150-12	150.0	11.70	12.70	10.00	610.00	-	142.5	600.0	-	TAG 12

⁽¹⁾ With coolant holes, recommended coolant pressure: 10 bar min, cooling tube SGCU 341 should be ordered separately. ⁽²⁾ Thickness beyond the D.O.C. area is 2.50 mm ⁽³⁾ Thickness beyond the D.O.C. area is 1.60 mm ⁽⁴⁾ Thickness at the D.O.C. area is 1.65 mm



TGFH/R/L Spare Parts



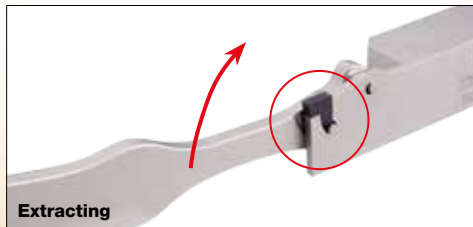
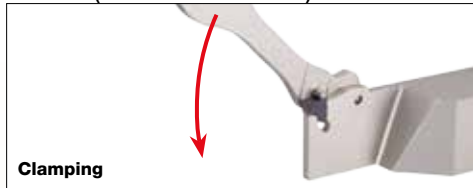
Designation	Sealing Screw	Extractor	Cooling Tube
TGFH 19-1.4		ETG 1.4/1.6*	
TGFH 19-1.6		ETG 1.4/1.6*	
TGFH 26-1.4		ETG 1.4/1.6*	
TGFH 26-1.6		ETG 1.4/1.6*	
TGFH 26-2		ETG 2*	
TGFH 26-3		ETG 3-4*	
TGFH 26K-3	SGC 340	ETG 3-4-SH*	
TGFH 26-4		ETG 3-4*	
TGFH 26-5		ETG 5-7*	
TGFH 32-1.4		ETG 1.4/1.6*	
TGFH 32-1.6		ETG 1.4/1.6*	
TGFH 32-2		ETG 2*	
TGFH 32-3		ETG 3-4*	
TGFH 32K-3	SGC 340	ETG 3-4-SH*	
TGFH 32-4		ETG 3-4*	
TGFH 32K-4	SGC 340	ETG 3-4-SH*	
TGFH 32-5		ETG 5-7*	
TGFH 32-7		ETG 5-7*	
TGFH 45-3		ETG 3-4*	
TGFH 45-4		ETG 3-4*	
TGFH 45-5		ETG 5-7*	
TGFH 45-6		ETG 5-7*	
TGFH 45-7		ETG 5-7*	
TGFH 52-7		ETG 5-7*	
TGFH 53-7		ETG 5-7*	
TGFH 52K-8		ETG 8-12*	SGCU 341*
TGFH 53K-8		ETG 8-12*	SGCU 341*
TGFH 52K-9		ETG 8-12*	SGCU 341*
TGFH 53K-9		ETG 8-12*	SGCU 341*
TGFHR/L 53K-12		ETG 8-12*	SGCU 341*
TGFH 100-9		ETG 8-12*	
TGFH 100-12		ETG 8-12*	
TGFH 150-12		ETG 8-12*	



* Optional, should be ordered separately

TANG-GRIP Extractor

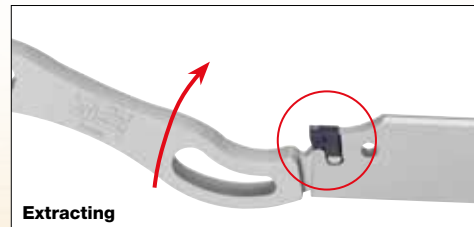
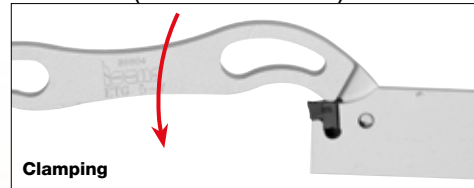
ETG 3-4 (for 3 and 4 mm tools)



ETG 5-7 (for 5-7 mm tools)

ETG 2 (for 2 mm tools)

ETG 1.4/1.6 (for 1.4/1.6 mm tools)



ETG 8-12 Extractor for 8 to 12.7 mm Inserts

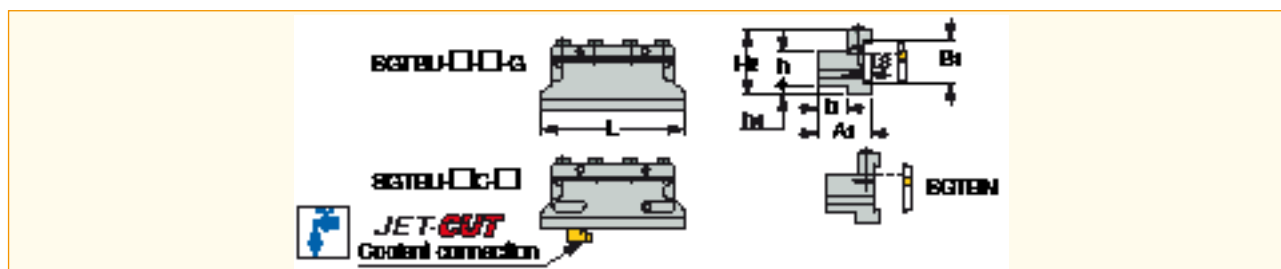
Extraction Side



Insertion Side

SGTBU/SGTBN

Blocks for Various Parting and Grooving Blades



Designation	h	b	B ₁	A ₁	H ₂	h ₄	L ₃	L
SGTBN 16-2	16.0	16.0	19.0	26.00	30.0	4.0	2.00	76.00
SGTBU 16-5G	16.0	17.0	26.0	34.00	43.0	13.0	4.00	86.00
SGTBU 20-5G	20.0	21.0	26.0	38.00	43.0	9.0	4.00	86.00
SGTBU 20-6G	20.0	19.0	32.0	38.00	50.0	13.0	5.30	100.00
SGTBU 25-5G	25.0	23.0	26.0	42.00	45.0	5.0	4.00	110.00
SGTBU 25-6G	25.0	23.0	32.0	42.00	50.0	8.0	5.30	110.00
SGTBU 25-8M	25.0	23.0	45.0	42.00	70.0	27.0	5.30	110.00
SGTBU 25C-6 ⁽¹⁾	25.0	23.0	32.0	42.00	50.0	8.0	5.30	110.00
SGTBU 32-25-6G	32.0	25.0	32.0	44.00	54.0	5.0	5.30	110.00
SGTBU 32-6G	32.0	29.0	32.0	48.00	54.0	5.0	5.30	110.00
SGTBU 32-8M	32.0	29.0	45.0	48.00	70.0	20.0	5.30	110.00
SGTBU 40-6G	40.0	-	32.0	60.00	57.0	-	5.30	114.00
SGTBU 40-9	40.0	41.0	52.6	66.00	81.0	22.0	8.00	130.00
SGTBU 50-9	50.0	41.0	52.6	66.00	83.0	14.0	8.00	135.00

• Choose blade by B₁ dimension

⁽¹⁾ Elbow-style connector unit supplied with each JET-CUT tool block

Spare Parts

Designation	Top Clamp	Screw	Key	Pipe Fitting	Pipe Fitting 1	Pipe Fitting 2	Pipe Fitting 3
SGTBN 16-2		SR M5X25DIN912 12.9	HW 4.0				
SGTBU 16-5G	BKU 86	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 20-5G	BKU 86	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 20-6G	BKU 100	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 25-5G	BKU 105	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 25-6G	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 25-8M	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 25C-6	BKU 110	SR M6X30DIN912 12.9	HW 5.0	SGCU-344	CF 343*	CGF 343*	CGM 343*
SGTBU 32-25-6G	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 32-6G	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 32-8M	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 40-6G	BKU 110	SR M6X30DIN912 12.9	HW 5.0				
SGTBU 40-9	BK 509	SR M8X30DIN912 12.9	HW 6.0				
SGTBU 50-9	BK 509	SR M8X30DIN912 12.9	HW 6.0				

* Optional, should be ordered separately



STANDARD
PARTING & GROOVING
Tools

TANG-GRIP
PARTING LINE

Combined With **JETHPLINE**



High Pressure Coolant with Parting Tools

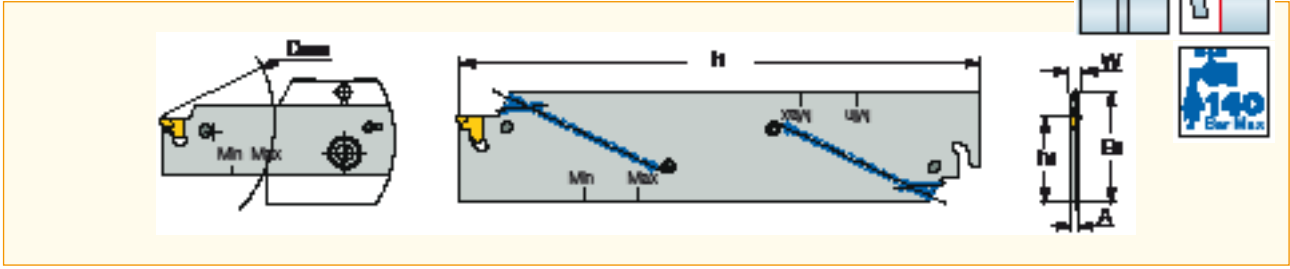
On exotic alloys such as iniconel and titanium, it is usually impossible to break the chips with standard external coolant pressure. Applying high coolant pressure provides excellent chipbreaking results on all materials.

On some alloyed and stainless steel, especially when low feeds are applied, high pressure coolant may solve chipbreaking problems.

High pressure coolant reduces or even eliminates built-up edge phenomenon, especially when machining stainless steel and high temperature alloys.

Parting and Grooving Blades for TANG-GRIP Inserts, with Channels for High Pressure Coolant

STANDARD PARTING & GROOVING Tools



Designation	B ₁	W _{min}	W _{max}	A	l _i	h ₁	D _{max}	Insert
TGFH 26C-3-JHP	26.0	2.80	3.50	2.50	140.00	21.4	75.0	TAG 3
TGFH 32C-3-JHP	32.0	2.80	3.50	2.50	150.00	24.8	90.0	TAG 3
TGFH 26C-4-JHP	26.0	3.70	4.50	3.40	140.00	21.4	75.0	TAG 4
TGFH 32C-4-JHP	32.0	3.70	4.50	3.40	150.00	24.8	90.0	TAG 4
TGFH 32C-5-JHP	32.0	4.70	5.50	4.00	160.00	24.8	120.0	TAG 5
TGFH 32C-6-JHP	32.0	5.70	6.50	5.20	160.00	24.8	120.0	TAG 6

Spare Parts

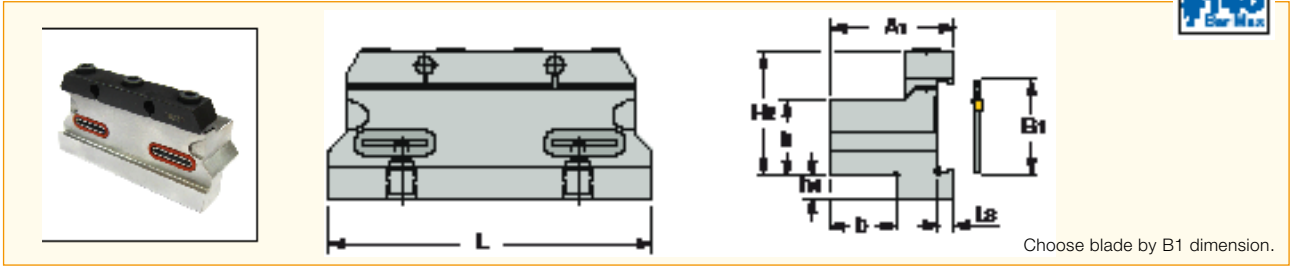
Designation	Sealing Screw	Extractor
TGFH 26C-3-JHP	SGC 340	ETG 3-4-SH*
TGFH 32C-3-JHP	SGC 340	ETG 3-4-SH*
TGFH 26C-4-JHP	SGC 340	ETG 3-4-SH*
TGFH 32C-4-JHP	SGC 340	ETG 3-4-SH*
TGFH 32C-5-JHP	SGC 340	ETG 5-7*
TGFH 32C-6-JHP	SGC 340	ETG 5-7*

* Optional, should be ordered separately

**Engineered for
 MAXIMUM
 PARTING & GROOVING
 Performance**



Tool Blocks for Parting and Grooving Blades for High Pressure Coolant

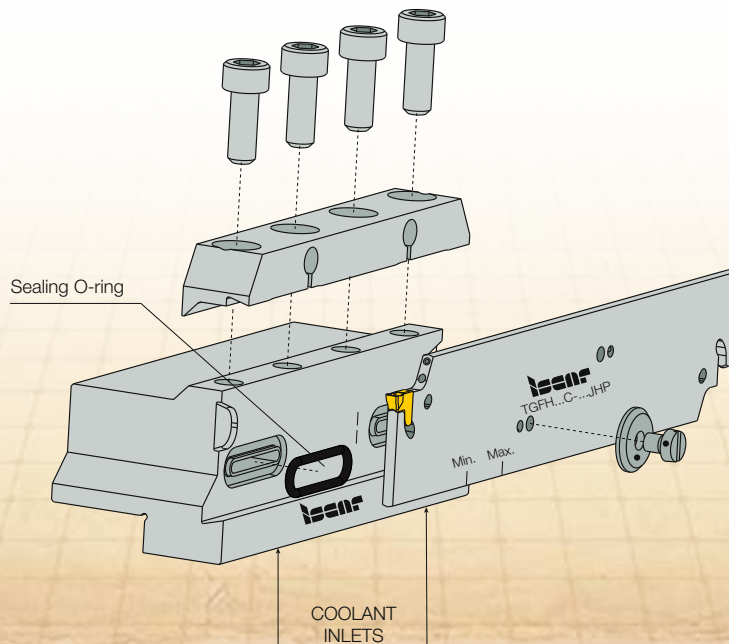


Designation	h	b	B ₁	A ₁	H ₂	h ₄	L ₃	L
TGTBU 16-5G-JHP	16.0	16.9	26.0	34.00	29.9	13.1	4.10	86.00
TGTBU 20-5G-JHP	20.0	20.9	26.0	38.00	33.9	9.1	4.10	86.00
TGTBU 20-6G-JHP	20.0	19.0	32.0	38.20	36.4	15.0	5.30	100.00
TGTBU 25-5G-JHP	25.0	26.1	26.0	43.10	39.0	5.5	4.10	110.00
TGTBU 25-6G-JHP	25.0	23.0	32.0	42.20	41.4	8.0	5.30	110.00
TGTBU 32-6G-JHP	32.0	29.0	32.0	48.20	48.4	5.0	5.30	110.00

Spare Parts

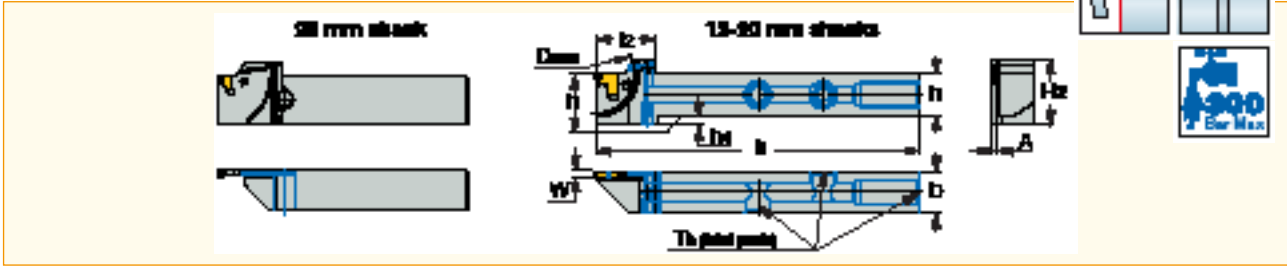


Designation	Top Clamp	Screw	Key
TGTBU 16-5G-JHP	BKU 86	SR M6X16DIN912 12.9	HW 5.0
TGTBU 20-5G-JHP	BKU 86	SR M6X16DIN912 12.9	HW 5.0
TGTBU 20-6G-JHP	BKU 100	SR M6X16DIN912 12.9	HW 5.0
TGTBU 25-5G-JHP	BKU 105	SR M6X16DIN912 12.9	HW 5.0
TGTBU 25-6G-JHP	BKU 110	SR M6X16DIN912 12.9	HW 5.0
TGTBU 32-6G-JHP	BKU 110	SR M6X16DIN912 12.9	HW 5.0



Parting and Grooving Toolholders for TANG-GRIP Inserts, with Channels for High Pressure Coolant

STANDARD PARTING & GROOVING Tools



Designation	W _{min}	W _{max}	h	b	A	l ₁	H ₂	l ₂	h ₄	T _h	D _{max}	Insert
TGTR/L 1212-2JHP	1.80	2.50	12.0	12.0	1.72	100.00	19.5	18.5	3.0	UNF 5/16-24 ⁽¹⁾	24.0	TAG 2
TGTR/L 1616-2JHP	1.80	2.50	16.0	16.0	1.72	120.00	21.5	25.5	-	UNF 5/16-24	35.0	TAG 2
TGTR/L 2012-2JHP	1.80	2.50	20.0	12.0	1.72	120.00	25.6	25.5	-	UNF 5/16-24	35.0	TAG 2
TGTR/L 1616-3JHP	2.80	3.50	16.0	16.0	2.50	120.00	24.5	25.5	3.0	UNF 5/16-24	35.0	TAG 3
TGTR/L 2020-3JHP	2.80	3.50	20.0	20.0	2.50	120.00	27.0	35.0	-	G1/8	54.0	TAG 3
TGTR/L 2525-3JHP	2.80	3.50	25.0	25.0	2.50	150.00	32.5	35.0	-	G1/8	56.0	TAG 3
TGTR/L 2020-4JHP	3.70	4.50	20.0	20.0	3.40	120.00	27.0	35.0	-	G1/8	54.0	TAG 4
TGTR/L 2525-4JHP	3.70	4.50	25.0	25.0	3.40	150.00	32.5	35.0	-	G1/8	56.0	TAG 4

• For user guide and accessories see pages

⁽¹⁾ Use M5 G1/8 adapter.

For inserts, see pages: TAG N-A () • TAG N-C/W/M () • TAG N-J/JS/JT () • TAG N-LF () • TAG N-MF () • TAG N-UT () • TAG R/L-C () • TAG R/L-J/JS ()

Flow Rate vs. Pressure

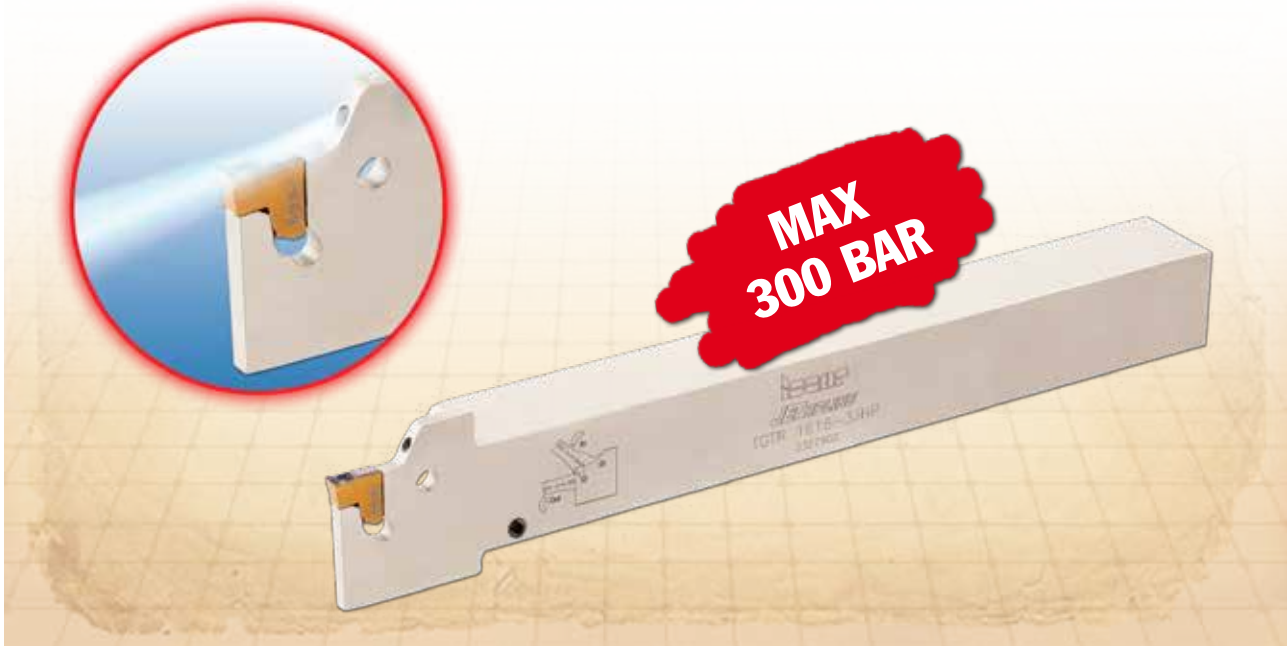
Designation	70 Bar Flow Rate (liters/min)	100 Bar Flow Rate (liters/min)	140 Bar Flow Rate (liters/min)
TGTR/L....-2JHP	2-4	4-6	6-8
TGTR/L....-3JHP	7-9	9-11	11-13
TGTR/L....-4JHP	7-9	9-11	11-13

Spare Parts

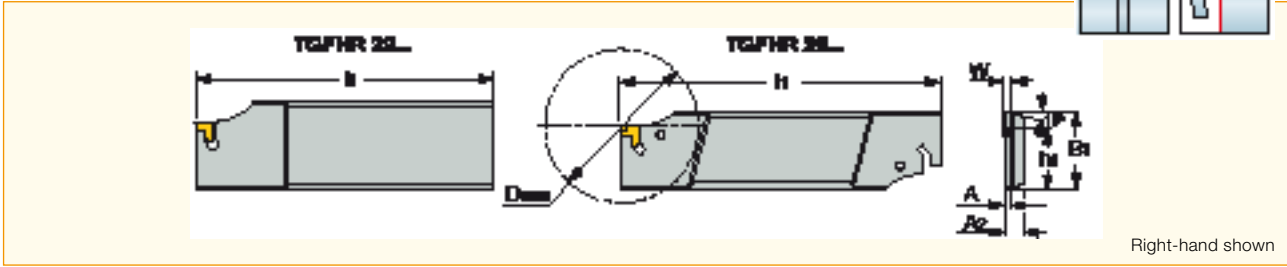
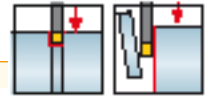


Designation	Extractor	Plug	Plug Key
TGTR/L 1212-2JHP	ETG 2-SH-T*	SR 5/16UNF TL360	HW 5/32"
TGTR/L 1616-2JHP	ETG 2*	SR 5/16UNF TL360	HW 5/32"
TGTR/L 2012-2JHP	ETG 2*	SR 5/16UNF TL360	HW 5/32"
TGTR/L 1616-3JHP	ETG 3-4-SH*	SR 5/16UNF TL360	HW 5/32"
TGTR/L 2020-3JHP	ETG 3-4-SH*	PLG 1/8BSP TL360	HW 5.0
TGTR/L 2525-3JHP	ETG 3-4-SH*		
TGTR/L 2020-4JHP	ETG 3-4-SH*	PLG 1/8BSP TL360	HW 5.0
TGTR/L 2525-4JHP	ETG 3-4-SH*		

* Optional, should be ordered separately



Double- and Single-Ended Parting and Grooving Reinforced Blades for TANG-GRIP Tangentially Clamped Inserts



Designation	B ₁	W _{min}	W _{max}	A	A ₂	l ₁	h ₁	D _{max}
TGFHL 26T16-2	26.0	1.80	2.40	1.65	7.9	110.50	21.4	43.0
TGFHR 26T16-3	26.0	2.80	3.50	2.50	7.9	110.50	21.4	43.0
TGFHR/L 26T23-2	26.0	1.80	2.40	1.65	7.9	110.50	21.4	56.0
TGFHR/L 26T23-3	26.0	2.80	3.50	2.50	7.9	110.50	21.4	46.0
TGFHR/L 32T22-2	32.0	1.80	2.40	1.65	7.9	110.50	24.8	42.0
TGFHR/L 32T22-3	32.0	2.80	3.50	2.50	7.9	110.50	24.8	42.0
TGFHR/L 32T33-3	32.0	2.80	3.50	2.50	7.9	110.50	24.8	66.0
TGFHR/L 32T33-4	32.0	3.70	4.50	3.40	7.9	110.50	24.8	66.0

Spare Parts



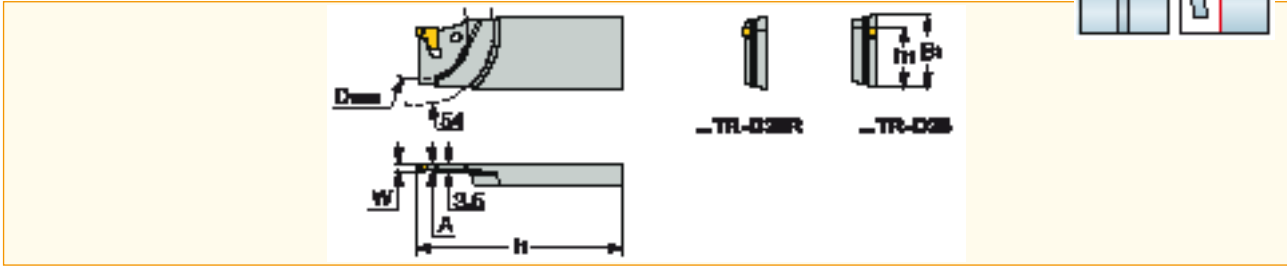
Designation	Extractor
TGFHL 26T16-2	ETG 2*
TGFHR 26T16-3	ETG 3-4-SH*
TGFHR/L 26T23-2	ETG 2*
TGFHR/L 26T23-3	ETG 3-4-SH*
TGFHR/L 32T22-2	ETG 2*
TGFHR/L 32T22-3	ETG 3-4-SH*
TGFHR/L 32T33-3	ETG 3-4-SH*
TGFHR/L 32T33-4	ETG 3-4-SH*

* Optional, should be ordered separately

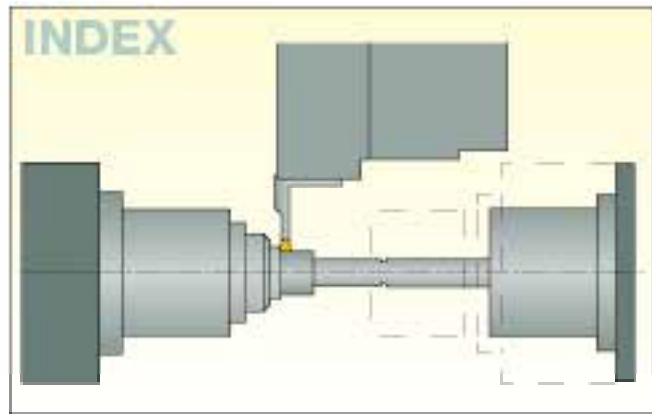
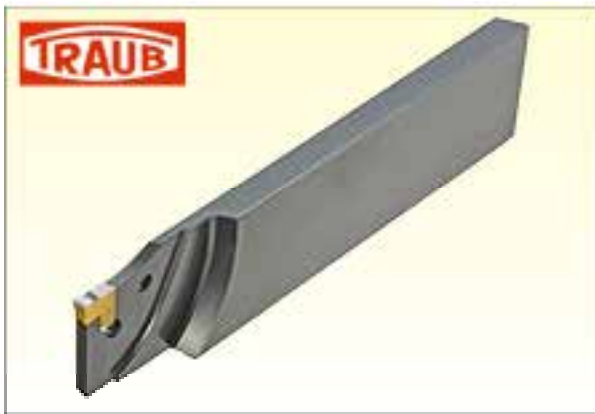
**TANGENTIALLY
CLAMPED INSERT FOR
HIGH PRODUCTIVITY
PARTING**



TANG-GRIP Reinforced Blades for Traub and Index Machines,
for TANG-GRIP Tangentially Clamped Inserts



Designation	B ₁	W _{min}	W _{max}	A	l ₁	h ₁	D _{max}	Insert
TGFHL 26-2TR-D36	26.0	1.80	2.40	1.65	110.00	21.4	36.0	TAG 2
TGFHL 26-2TR-D36R	26.0	1.80	2.40	1.65	110.00	21.4	36.0	TAG 2
TGFHL 26-3TR-D36	26.0	2.80	3.50	2.50	110.00	21.4	36.0	TAG 3
TGFHL 26-3TR-D36R	26.0	2.80	3.50	2.50	110.00	21.4	36.0	TAG 3



Spare Parts

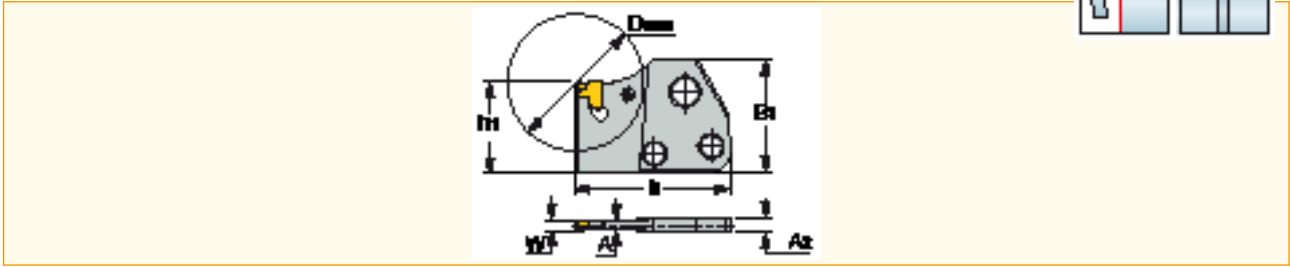
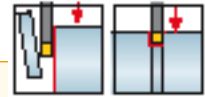


Designation	Extractor
TGFHL 26-2TR-D36	ETG 2*
TGFHL 26-2TR-D36R	ETG 2*
TGFHL 26-3TR-D36	ETG 3-4-SH*
TGFHL 26-3TR-D36R	ETG 3-4-SH*

* Optional, should be ordered separately



Parting and Grooving Adapters for TANG-GRIP Tangentially Clamped Inserts



Designation	W _{min}	W _{max}	A	A ₂	l ₁	D _{max}	h ₁	B ₁	Insert
TGAD 1.4N	1.40	1.40	3.20	1.1	41.50	32.0	24.0	29.0	TAG 1.4
TGAD 2N	1.80	2.40	3.20	1.7	41.50	32.0	24.0	30.0	TAG 2
TGAD 3N	2.80	3.50	4.00	2.4	41.50	35.0	24.0	30.0	TAG 3
TGAD 4N	3.70	4.50	3.20	3.2	50.50	50.0	24.0	30.0	TAG 4
TGAD 5N	4.70	5.50	4.00	4.0	50.50	50.0	24.0	30.0	TAG 5

Spare Parts



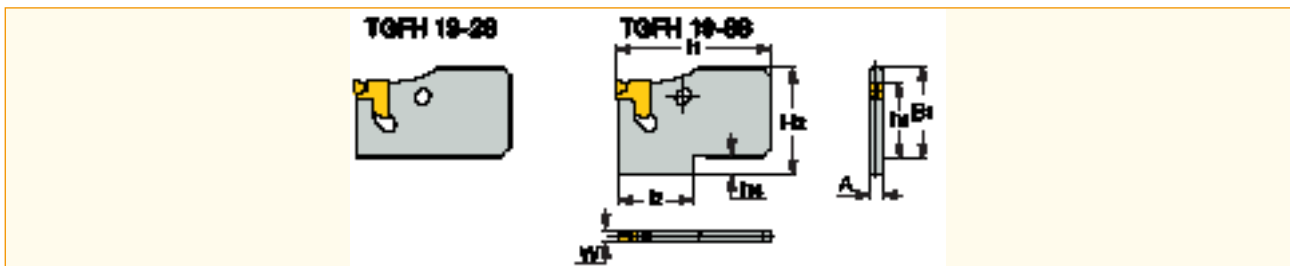
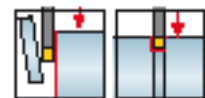
Designation	Extractor
TGAD 1.4N	ETG 1.4/1.6*
TGAD 2N	ETG 2*
TGAD 3N	ETG 3-4-SH*
TGAD 4N	ETG 3-4-SH*
TGAD 5N	ETG 5-7*

* Optional, should be ordered separately



TGFH-S

Single-Sided Blades for TANG-GRIP Parting and Grooving Inserts



Designation	B ₁	W _{min}	W _{max}	A	l ₁	h ₁	H ₂	h ₄	l ₂	T _{max-r}	D _{max}
TGFH 19-2S	19.0	1.80	2.40	1.65	32.00	15.7	19.0	-	-	12.00	36.0
TGFH 19-3S	19.0	2.80	3.50	2.50	32.00	15.7	22.0	3.0	15.5	16.00	40.0

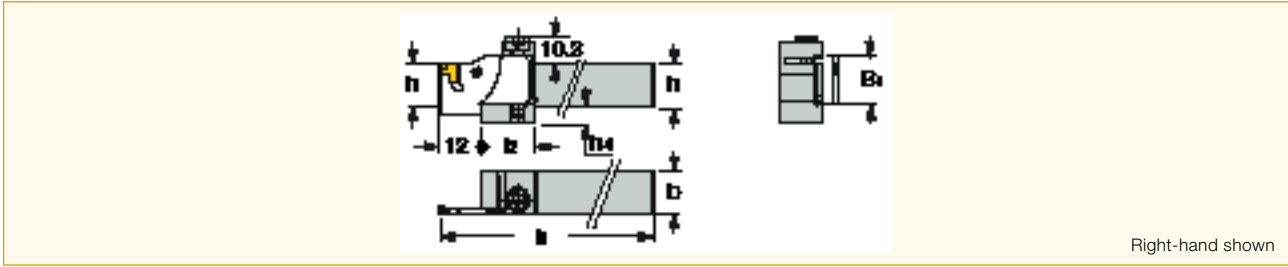
• For D_{max} and T_{max} drawing see SGBHR/L holder.

Spare Parts



Designation	Extractor
TGFH 19-2S	ETG 2*
TGFH 19-3S	ETG 3-4-SH*

* Optional, should be ordered separately

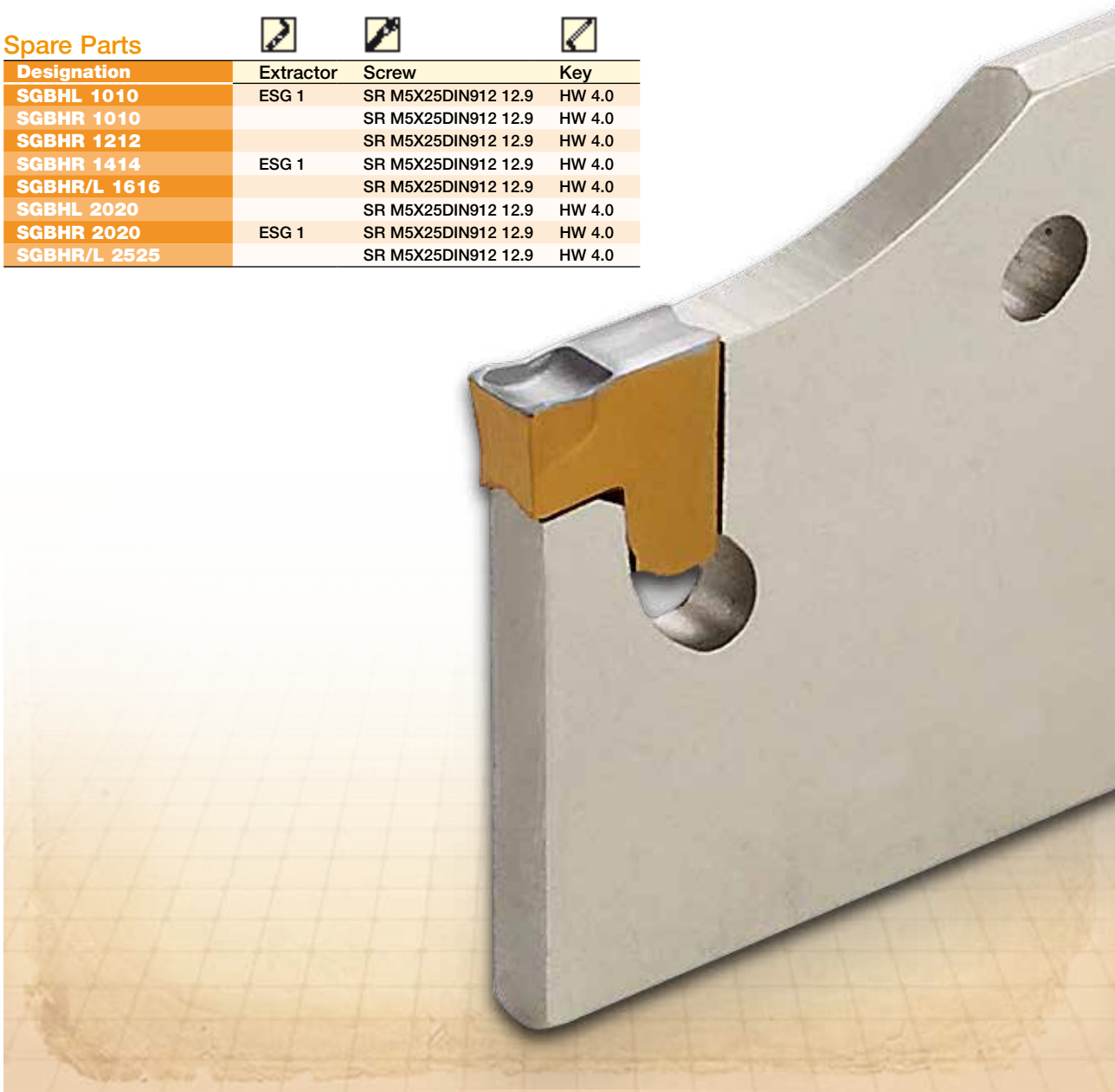


Designation	h	b	h ₄	l ₁	B ₁	l ₂	T _{max-r}	D _{max}
SGBHR/L 1010	10.0	10.0	10.0	154.00	19.0	20.0	16.00	40.0
SGBHR 1212	12.0	12.0	8.0	154.00	19.0	20.0	16.00	40.0
SGBHR 1414	14.0	14.0	6.0	154.00	19.0	20.0	16.00	40.0
SGBHR/L 1616	16.0	16.0	6.0	154.00	19.0	20.0	16.00	40.0
SGBHR/L 2020	20.0	20.0	2.0	154.00	19.0	20.0	16.00	40.0
SGBHR/L 2525	25.0	25.0	-	154.00	19.0	20.0	16.00	40.0

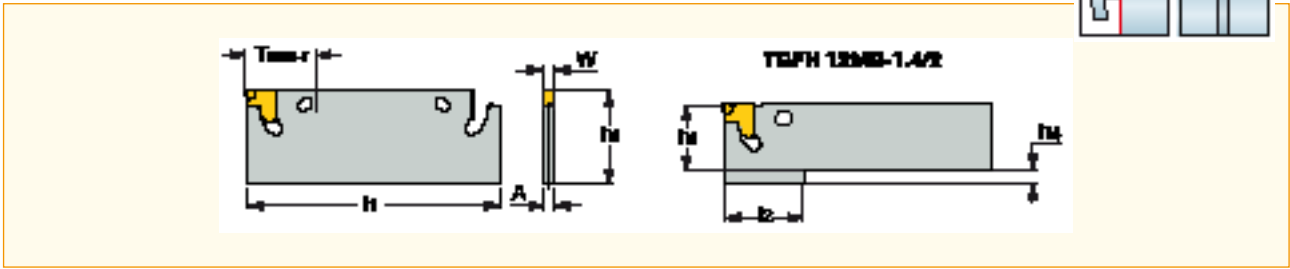
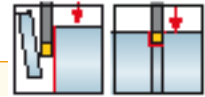
• For D_{max} and T_{max} dimensions see TGFH-S adapters.

Spare Parts

Designation	Extractor	Screw	Key
SGBHL 1010	ESG 1	SR M5X25DIN912 12.9	HW 4.0
SGBHR 1010		SR M5X25DIN912 12.9	HW 4.0
SGBHR 1212		SR M5X25DIN912 12.9	HW 4.0
SGBHR 1414	ESG 1	SR M5X25DIN912 12.9	HW 4.0
SGBHR/L 1616		SR M5X25DIN912 12.9	HW 4.0
SGBHL 2020		SR M5X25DIN912 12.9	HW 4.0
SGBHR 2020	ESG 1	SR M5X25DIN912 12.9	HW 4.0
SGBHR/L 2525		SR M5X25DIN912 12.9	HW 4.0



Parting and Grooving Blades for Other Manufacturers' Blocks

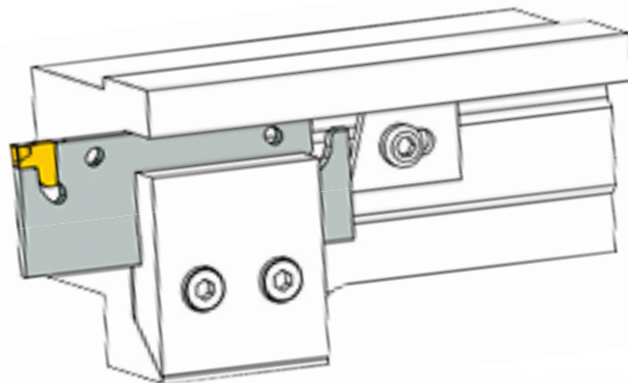


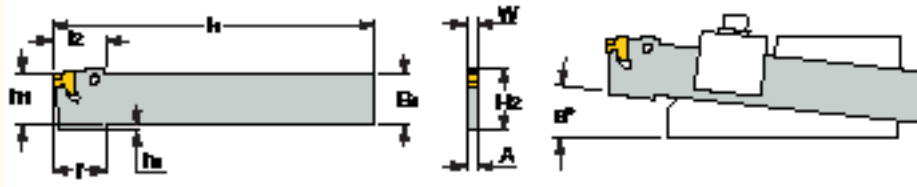
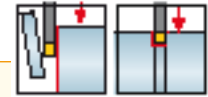
Designation	W _{min}	W _{max}	A	l ₁	h ₁	h ₄	l ₂	T _{max-r}	Insert
TGFH 12MB-2 L58	1.80	2.40	1.65	58.00	12.2	2.8	15.5	11.50	TAG 2
TGFH 17MB-2 L58	1.80	2.40	1.65	58.00	17.2	-	-	11.50	TAG 2
TGFH 22MB-2 L58	1.80	2.40	1.65	58.00	22.2	-	-	11.50	TAG 2
TGFH 17MB-3	2.80	3.50	2.50	64.00	17.2	-	-	12.00	TAG 3
TGFH 22MB-3	2.80	3.50	2.50	64.00	22.2	-	-	12.00	TAG 3
TGFH 22MB-3-L84	2.80	3.50	2.50	84.00	22.2	-	-	16.00	TAG 3
TGFH 28MB-3	2.80	3.50	2.50	100.00	28.0	-	-	19.00	TAG 3
TGFH 17MB-4	3.70	4.50	3.40	70.00	17.2	-	-	14.00	TAG 4
TGFH 22MB-4	3.70	4.50	3.40	70.00	22.2	-	-	14.00	TAG 4
TGFH 22MB-4-L90	3.70	4.50	3.40	90.00	22.2	-	-	17.00	TAG 4
TGFH 28MB-4	3.70	4.50	3.40	100.00	28.0	-	-	19.00	TAG 4

Spare Parts

Designation	
TGFH 12MB-2 L58	
TGFH 17MB-2 L58	
TGFH 22MB-2 L58	
TGFH 17MB-3	
TGFH 22MB-3	
TGFH 22MB-3-L84	
TGFH 28MB-3	ETG 3-4-SH*
TGFH 17MB-4	ETG 3-4-SH*
TGFH 22MB-4	ETG 3-4-SH*
TGFH 22MB-4-L90	ETG 3-4-SH*
TGFH 28MB-4	ETG 3-4-SH*

* Optional, should be ordered separately





Designation	W _{min}	W _{max}	B ₁	A	l ₁	H ₂	h ₁	l ₂	f	h ₄	D _{max}	a°	Insert
TGFS 0-17-2	1.80	2.40	17.2	1.65	110.00	17.2	17.2	-	18.0	1.8	35.0	0	TAG 2
TGFS 0-17-3	2.80	3.50	17.2	2.50	110.00	19.0	17.2	-	18.0	1.8	60.0	0	TAG 3
TGFS 5-17-2	1.80	2.40	17.4	1.65	110.00	18.9	17.5	18.0	18.0	1.5	35.0	5	TAG 2
TGFS 5-17-3	2.80	3.50	17.4	2.50	110.00	20.7	17.5	18.0	18.0	1.5	60.0	5	TAG 3
TGFS 5-17-4	3.70	4.50	17.4	3.40	110.00	20.7	17.5	18.0	18.0	1.5	60.0	5	TAG 4
TGFS 5-22-2	1.80	2.40	22.2	1.65	150.00	23.8	22.4	18.0	-	-	50.0	5	TAG 2
TGFS 5-22-3	2.80	3.50	22.2	2.50	150.00	24.1	22.4	18.0	-	-	75.0	5	TAG 3
TGFS 5-22-4	3.70	4.50	22.2	3.40	150.00	24.1	22.4	18.0	-	-	80.0	5	TAG 4
TGFS 5-28-4	3.70	4.50	28.6	3.40	150.00	30.4	28.7	18.0	-	-	100.0	5	TAG 4

Spare Parts



Designation	Extractor
TGFS 0-17-2	ETG 2*
TGFS 0-17-3	ETG 3-4-SH*
TGFS 5-17-2	ETG 2*
TGFS 5-17-3	ETG 3-4-SH*
TGFS 5-17-4	ETG 3-4-SH*
TGFS 5-22-2	ETG 2*
TGFS 5-22-3	ETG 3-4-SH*
TGFS 5-22-4	ETG 3-4-SH*
TGFS 5-28-4	ETG 3-4-SH*

* Optional, should be ordered separately

**TANGENTIALLY
CLAMPED
INSERT FOR HIGH
PRODUCTIVITY
PARTING**

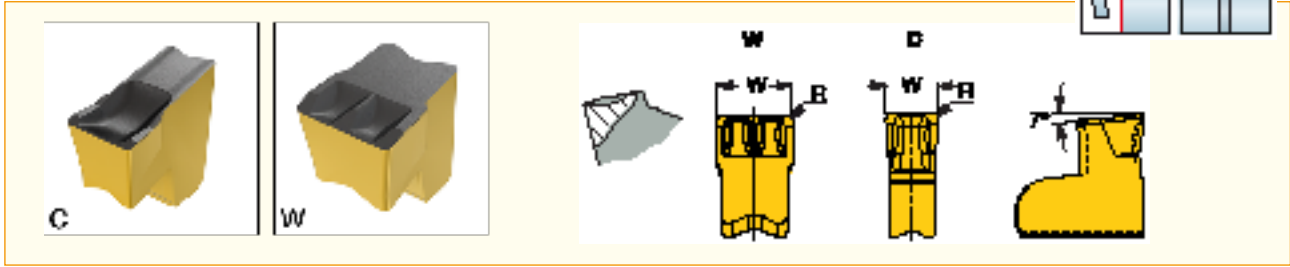
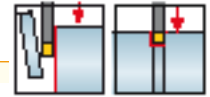


TANG-GRIP

PARTING LINE

TAG N-C/W/M

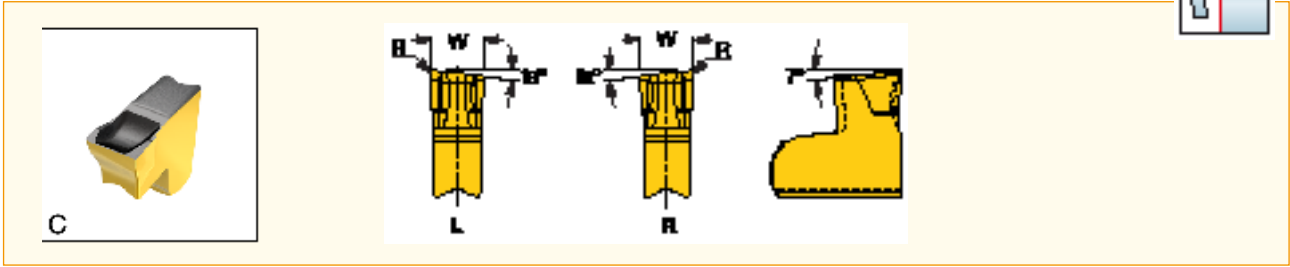
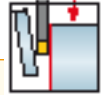
Parting and Grooving Single-Ended Insert for Parting Bars, Hard Materials and Tough Applications



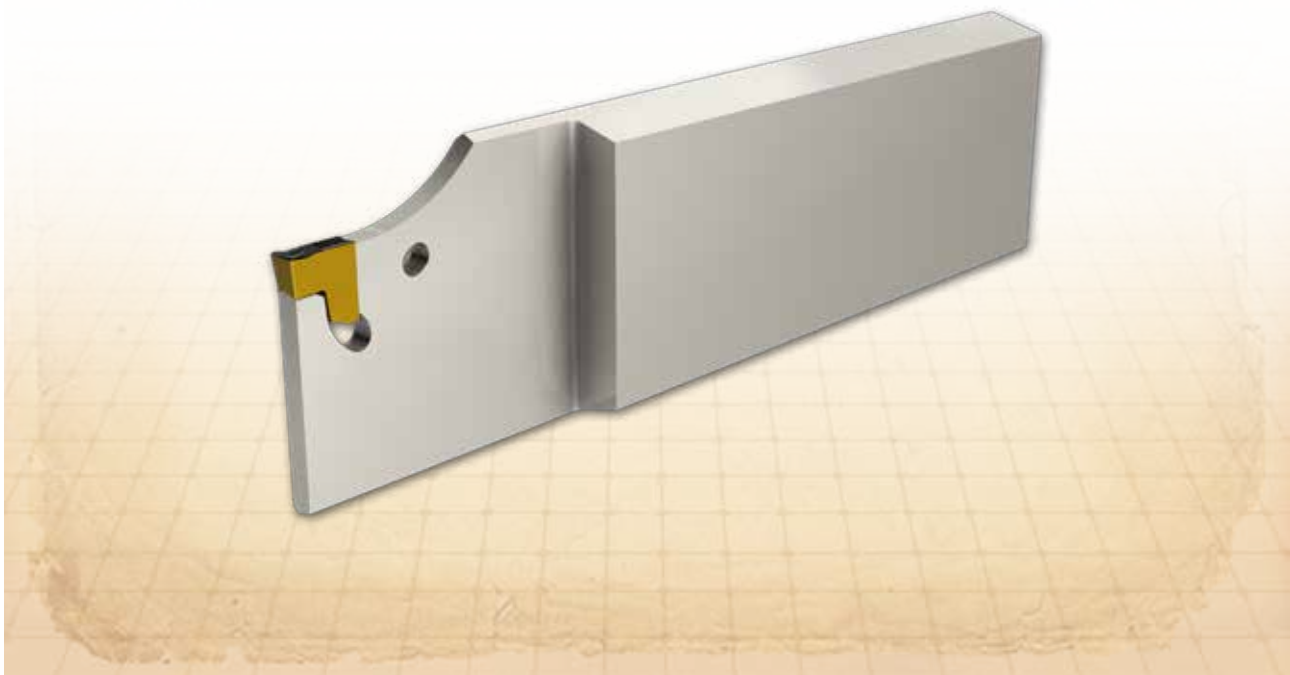
Designation	Dimensions			Tough ↔ Hard							Recommended Machining Data	
	W	W±toler	R±0.04	IC830	IC928	IC5400	IC808	IC908	IC30N	IC807	IC20	f groove (mm/rev)
TAG N1.4C	1.40	0.05	0.16							●		0.04-0.10
TAG N1.6C	1.60	0.05	0.16	●			●					0.04-0.14
TAG N2C	2.00	0.05	0.20	●		●	●		●		●	0.05-0.16
TAG N2.4C	2.40	0.04	0.16	●			●					0.06-0.18
TAG N3CB ⁽¹⁾	3.00	0.05	0.35	●			●					0.12-0.30
TAG N3C	3.05	0.05	0.20	●	●	●	●	●	●	●	●	0.10-0.25
TAG N3M ⁽²⁾	3.05	0.05	0.20	●				●				0.06-0.18
TAG N3W	3.05	0.05	0.20	●				●				0.10-0.25
TAG N4C	4.00	0.05	0.24	●	●	●	●	●		●	●	0.10-0.30
TAG N4CB ⁽¹⁾	4.00	0.05	0.40	●				●				0.10-0.33
TAG N4M ⁽²⁾	4.00	0.05	0.24	●				●				0.06-0.20
TAG N4W	4.00	0.05	0.24	●				●				0.10-0.30
TAG N4.8C	4.80	0.05	0.30	●			●					0.10-0.35
TAG N5C	5.05	0.05	0.25	●			●				●	0.10-0.35
TAG N6.3C	6.30	0.10	0.35	●			●					0.15-0.40
TAG N7W	7.00	0.10	0.50	●			●					0.18-0.40
TAG N8C	8.00	0.10	0.50	●			●					0.20-0.70
TAG N9.5C	9.50	0.10	0.50	●			●					0.25-0.80
TAG N9.5W	9.50	0.10	0.50	●			●					0.22-0.80
TAG N12.7W	12.70	0.10	0.85	●			●					0.30-0.80

• 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.



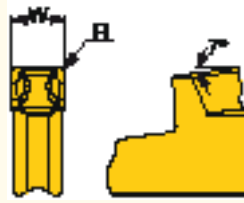
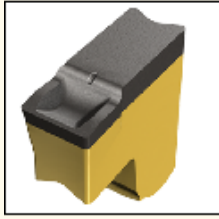
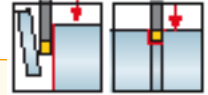
Designation	Dimensions			Tough ↔ Hard					Recommended Machining Data
	W±0.10	R±0.05	f _a °	IC830	IC928	IC808	IC908	IC30N	f groove (mm/rev)
TAG R/L2C-6D	2.05	0.20	6.0	●		●			0.04-0.12
TAG R2.4C-8D	2.40	0.16	8.0			●			0.05-0.13
TAG R/L3C-6D	3.00	0.20	6.0	●	●	●	●		0.08-0.18
TAG R3C-8D	3.00	0.20	8.0					●	0.06-0.16
TAG R/L3C-15D	3.00	0.20	15.0	●	●	●	●		0.08-0.16
TAG R/L4C-4D	4.05	0.24	4.0	●	●	●	●		0.08-0.20
TAG R/L5C-4D	5.05	0.25	4.0	●		●			0.10-0.25
TAG R/L6.3C-4D	6.35	0.35	4.0	●		●			0.12-0.30



TANG-GRIP

PARTING LINE
TAG N-MF

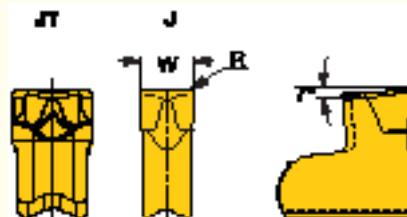
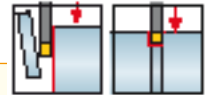
Parting and Grooving Single-Ended Insert for Parting Bars, Hard Materials and Tough Applications, Medium Feed



Designation	Dimensions			IC5400	Recommended Machining Data
	W	W±toler	R±0.03		f groove (mm/rev)
TAG N2MF	2.00	0.05	0.20	●	0.04-0.12
TAG N3MF	3.00	0.05	0.20	●	0.06-0.18

TAG N-J/JS/JT

Parting and Grooving Single-Ended Insert, for Soft Materials



Designation	Dimensions		Tough ↔ Hard							Recommended Machining Data
	W±0.04	R±0.05	IC830	IC928	IC5400	IC808	IC908	IC807	IC20	f groove (mm/rev)
TAG N1.4J	1.40	0.16	●			●		●		0.03-0.10
TAG N1.6J	1.60	0.16	●			●				0.03-0.12
TAG N2JS (1)	2.00	0.02	●			●				0.03-0.08
TAG N2J	2.00	0.20	●		●	●			●	0.04-0.12
TAG N2JT	2.00	0.20	●	●	●	●	●			0.04-0.10
TAG N3JS (1)	3.05	0.02	●			●				0.04-0.10
TAG N3J	3.05	0.20	●	●	●	●	●	●	●	0.04-0.16
TAG N3JT	3.05	0.20	●		●	●	●			0.05-0.18
TAG N3.2JT	3.25	0.20				●				0.05-0.18
TAG N4J	4.00	0.24	●	●	●	●	●	●		0.04-0.18
TAG N4JT	4.05	0.24	●		●	●	●			0.06-0.20
TAG N5J	5.05	0.25	●			●				0.05-0.20
TAG N5JT	5.05	0.25	●			●	●			0.06-0.22
TAG N6.3J	6.35	0.34	●			●				0.06-0.22
TAG N6.3JT	6.35	0.34	●				●			0.08-0.25
TAG N7JT	7.05	0.50	●			●				0.10-0.28

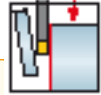
• JT chipformer has the basic positive configuration of the J-type and a reinforced negative frontal edge. Most suitable for soft materials at low to medium feeds. The JS-type has sharp corners.

(1) Sharp corners

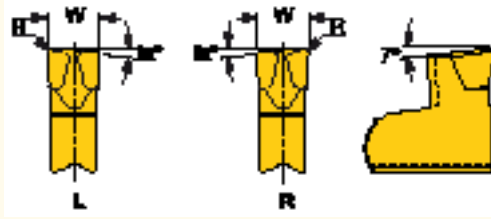
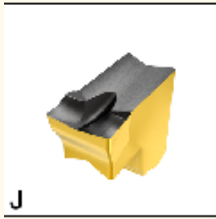
TANG-GRIP

PARTING LINE
TAG R/L-J/JS

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



STANDARD
PARTING & GROOVING
Tools

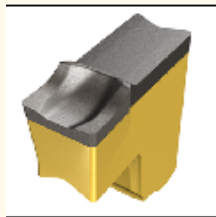


Designation	Dimensions			Tough ↔ Hard					Recommended Machining Data
	W	R	fa°	IC830	IC928	IC808	IC908	IC807	f groove (mm/rev)
TAG R/L1.4J-8D	1.40	0.16	8.0	●		●		●	0.03-0.08
TAG R/L1.4JS-10D ⁽¹⁾	1.40	0.02	10.0	●		●		●	0.02-0.06
TAG R/L2J-6D	2.00	0.20	6.0	●		●			0.03-0.10
TAG R/L2JS-6D ⁽¹⁾	2.00	0.02	6.0	●		●			0.02-0.08
TAG R/L2J-15D	2.00	0.20	15.0	●		●			0.03-0.08
TAG R/L2JS-15D ⁽¹⁾	2.00	0.02	15.0	●		●			0.02-0.06
TAG R/L3J-6D	3.00	0.20	6.0	●	●	●	●		0.04-0.14
TAG R/L3JS-6D ⁽¹⁾	3.00	0.02	6.0	●		●			0.03-0.10
TAG R/L3J-15D	3.00	0.20	15.0	●	●	●	●		0.04-0.12
TAG R/L3JS-15D ⁽¹⁾	3.00	0.02	15.0	●		●			0.03-0.08
TAG R/L4J-4D	4.00	0.24	4.0	●	●	●	●		0.04-0.15
TAG R/L5J-4D	5.05	0.25	4.0	●		●			0.05-0.18
TAG R/L6.3J-4D	6.35	0.35	4.0	●		●			0.05-0.20

⁽¹⁾ Sharp corners

TAG N-LF

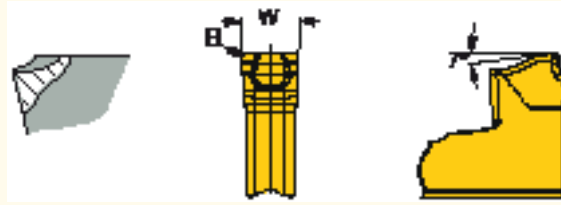
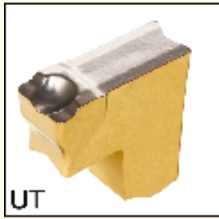
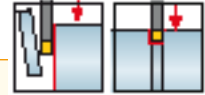
Parting and Grooving Single-Ended Insert, for Stainless Steel at Low to Medium Feed



Designation	Dimensions		Tough ↔ Hard			Recommended Machining Data
	W±0.04	R±0.03	IC830	IC5400	IC808	f groove (mm/rev)
TAG N2LF	2.00	0.20	●	●	●	0.03-0.08
TAG N3LF	3.05	0.20	●	●	●	0.04-0.10

TANG-GRIP
PARTING LINE
TAG N-UT

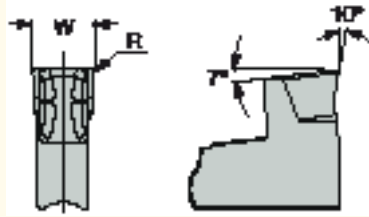
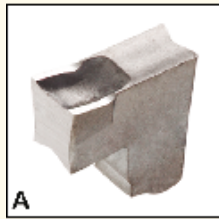
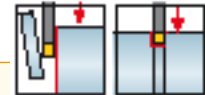
Parting and Grooving Single-Sided Insert, for Low Feeds on Cr-Ni Alloys, Ductile Materials and Low Carbon Steel



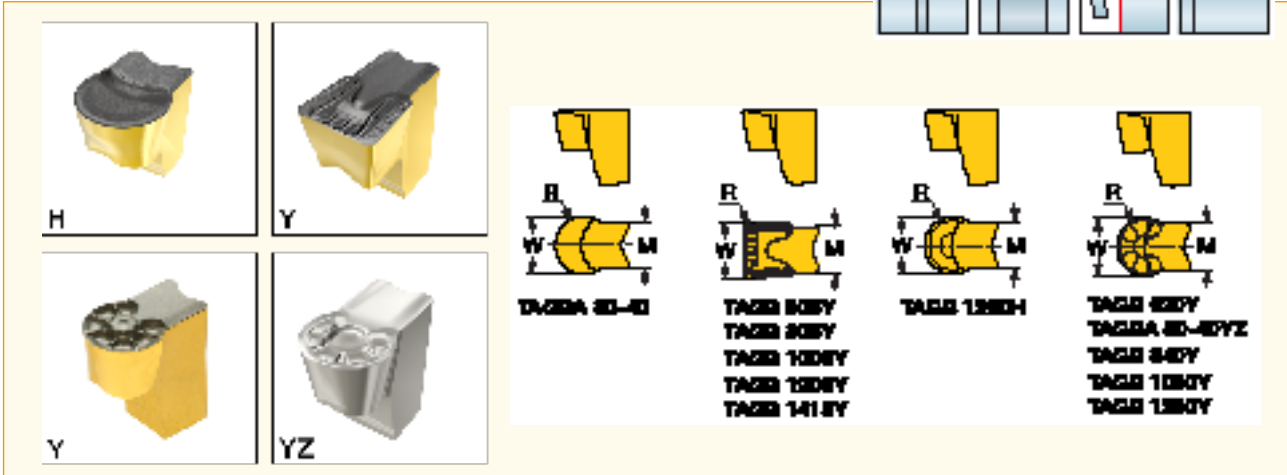
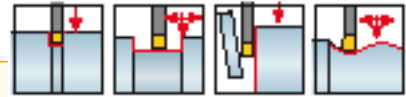
Designation	Dimensions		Tough ↔ Hard			Recommended Machining Data f groove (mm/rev)
	W±0.04	R±0.04	IC830	IC808	IC908	
TAG N2UT	2.00	0.20	●	●	●	0.03-0.10
TAG N3UT	3.00	0.30	●	●		0.04-0.12
TAG N4UT	4.00	0.30			●	0.05-0.15
TAG N5UT	5.00	0.30			●	0.05-0.18
TAG N6UT	6.00	0.85			●	0.06-0.22

TAG N-A

Parting and Grooving Single-Ended Insert for Machining Aluminum



Designation	Dimensions		IC20	Recommended Machining Data f groove (mm/rev)
	W±0.04	R±0.05		
TAG N2A	2.10	0.20	●	0.02-0.10
TAG N3A	3.05	0.20	●	0.03-0.14
TAG N4A	4.05	0.24	●	0.03-0.16

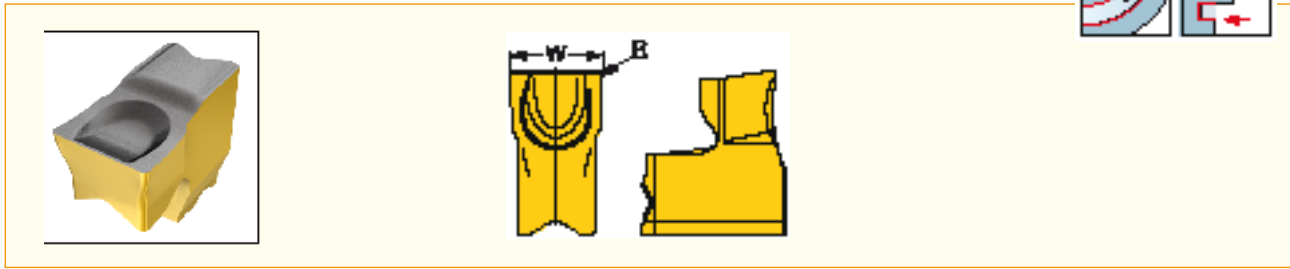


Designation	Dimensions				Tough ↔ Hard					Recommended Machining Data		
	W	W _{stoler}	R ^{±0.05}	M	IC8250	IC808	IC07	IC806	IC807	a _p (mm)	f turn (mm/rev)	f groove (mm/rev)
TAGB 608Y	6.00	0.05	0.80	5.2		●		●		1.00-3.60	0.20-0.60	0.18-0.30
TAGB 630Y	6.00	0.05	3.00	5.2		●		●		0.00-3.00	0.25-0.55	0.18-0.32
TAGB 808Y	8.00	0.05	0.80	6.2	●	●		●	●	1.00-5.60	0.25-0.55	0.18-0.32
TAGB 840Y	8.00	0.05	4.00	6.2	●	●		●	●	0.00-4.00	0.24-0.67	0.18-0.32
TAGB 1008Y	10.00	0.05	0.80	8.0	●	●				1.00-7.00	0.30-0.70	0.22-0.40
TAGB 1050Y	10.00	0.05	5.00	8.0	●	●				0.00-5.00	0.30-0.85	0.22-0.40
TAGB 1208Y	12.00	0.07	0.80	10.0	●	●				1.00-8.40	0.35-0.85	0.26-0.48
TAGB 1260Y	12.00	0.07	6.00	10.0	●	●				0.00-6.00	0.35-0.90	0.26-0.48
TAGB 1260H ⁽¹⁾	12.00	0.07	6.00	10.0	●	●				0.00-6.00	0.45-1.00	0.35-0.55
TAGB 1415Y	14.00	0.07	1.50	12.0	●	●				1.80-8.40	0.35-0.85	0.26-0.50
TAGBA 80-40YZ	8.00	0.05	4.00	6.0			●			0.00-4.00	0.40-0.70	0.25-0.40

⁽¹⁾ H-type chipformer with a negative T-land for machining heavy interrupted applications and cast iron parts



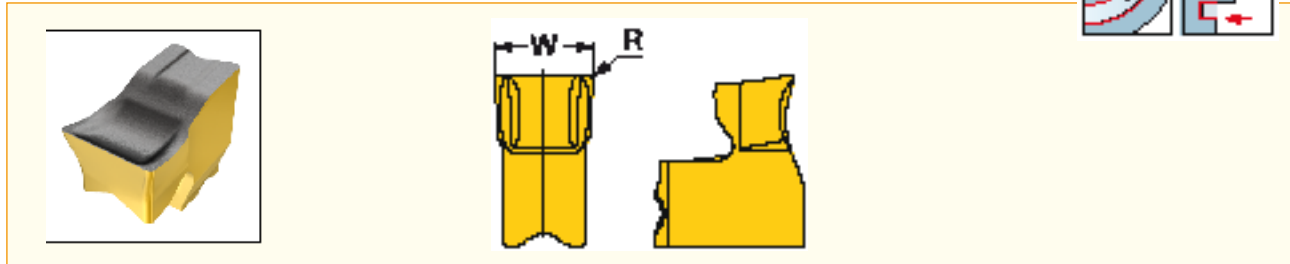
Face Grooving Single-Ended Inserts for Machining Steel



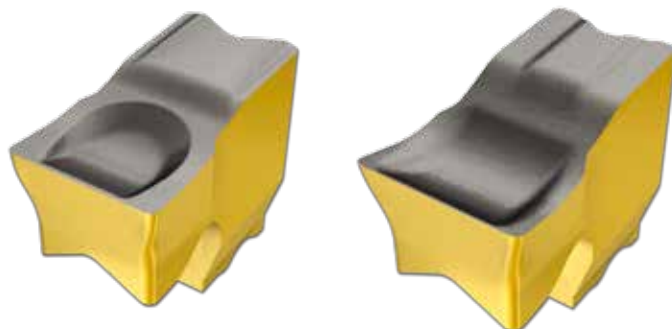
Designation	Dimensions		IC808	Recommended Machining Data
	W ± 0.05	R		f face-groove (mm/rev)
TNF 3P-IQ	3.00	0.30	●	0.10-0.15
TNF 4P-IQ	4.00	0.25	●	0.10-0.15
TNF 5P-IQ	5.00	0.35	●	0.12-0.20
TNF 6P-IQ	6.00	0.35	●	0.12-0.20

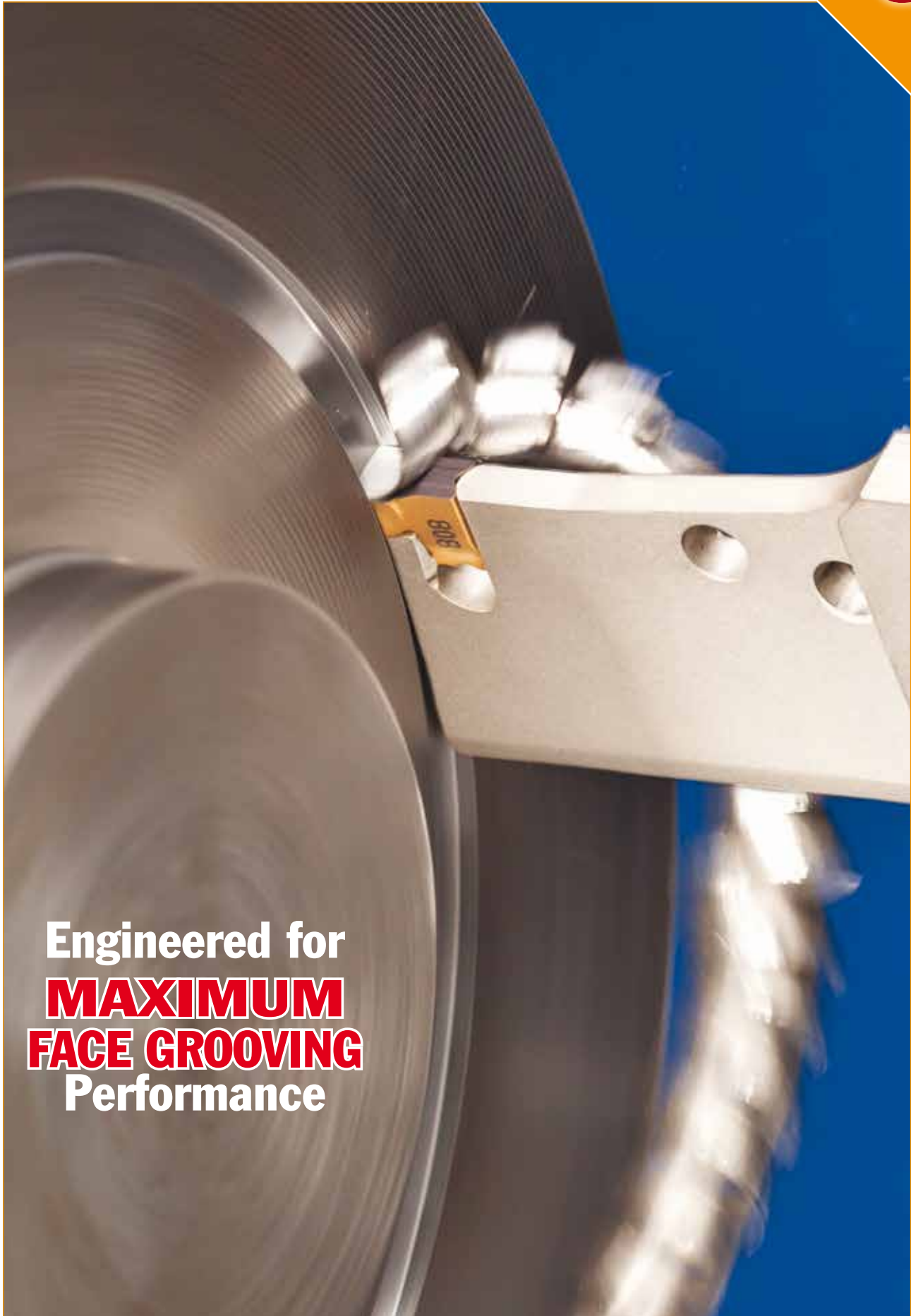
TNF-M-IQ

Face Grooving Single-Ended Inserts for Machining Stainless Steel and High Temperature Alloys



Designation	Dimensions		IC808	Recommended Machining Data
	W ± 0.05	R		f face-groove (mm/rev)
TNF 3M-IQ	3.00	0.30	●	0.08-0.10
TNF 4M-IQ	4.00	0.25	●	0.08-0.12
TNF 5M-IQ	5.00	0.35	●	0.12-0.20
TNF 6M-IQ	6.00	0.35	●	0.12-0.20





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