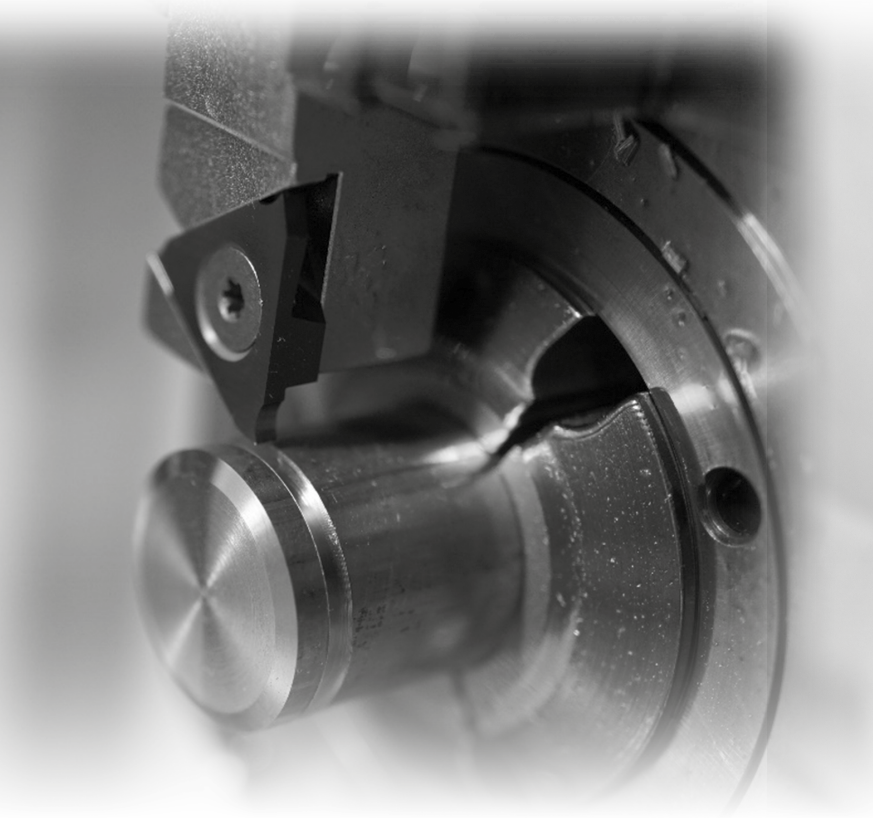
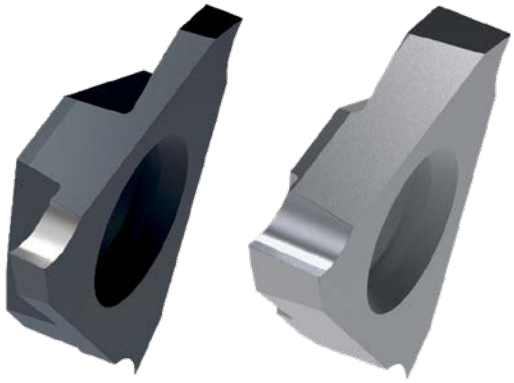
B282E

GT SERIES

FOR EXTERNAL AND INTERNAL APPLICATIONS





MITSUBISHI MATERIALS

NEW

GT HOLDER

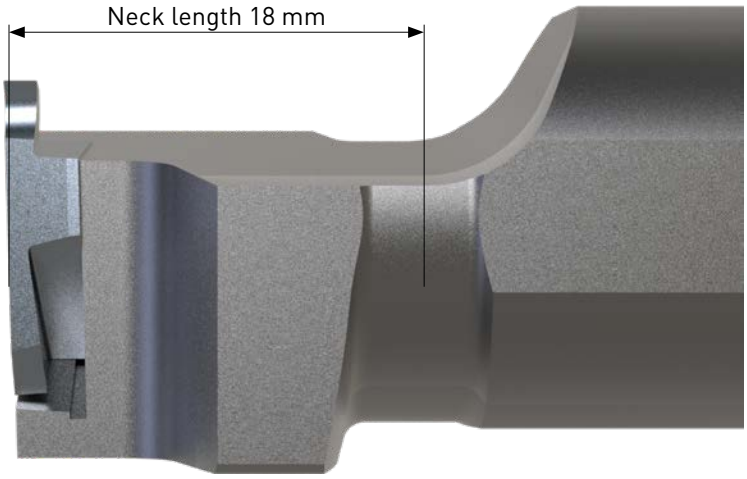
EXTERNAL GROOVING FOR SMALL PARTS MACHINING

NEW - 90° HOLDER

The neck dimensions have been optimised to improve resistance to chatter and vibration.

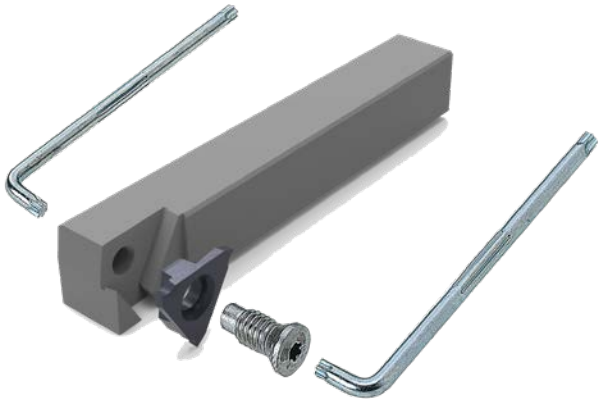
SH-GTAF GTAF

ROUND SHANK HOLDER
FOR REAR TOOL POST



BACK CLAMPING MECHANISM

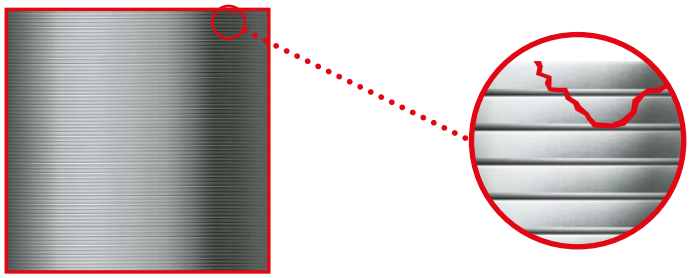
For gang type tool posts on Swiss automatic lathes, tools can be changed quickly and accurately using the same wrench on both sides, improving machine operating efficiency.
Offset type is not included.



COATING

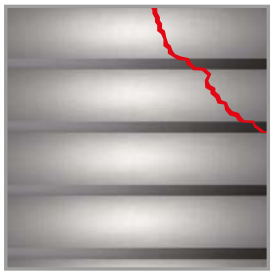
MS7025 – NANO-MULTILAYER COATING

By combining the high lubrication layer with excellent welding resistance and the high hardness layer with a greater wear resistance that suppresses the progress of wear at the nano-level, the film damage is significantly reduced and the welding and wear resistance are dramatically improved.



Nano-multilayer coating

Enlarged image

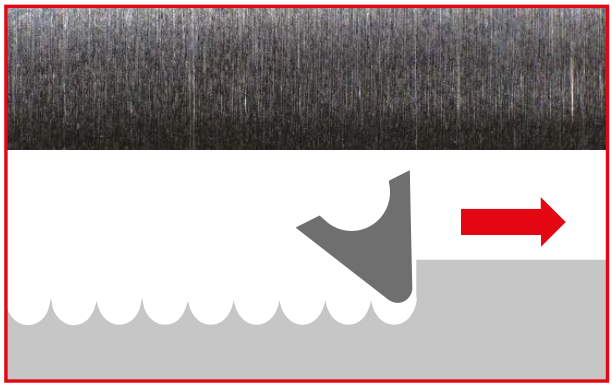


Conventional multilayer coating

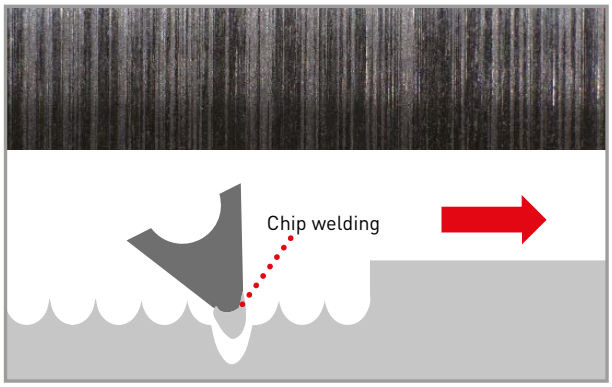
EFFECTS OF THE HIGH LUBRICATION LAYER

The nano-level, high lubrication layer suppresses built-up edge caused by chip welding which tends to occur in low feed machining. Additionally, this reduces blemishes on the machined surface of the component.

Surface Finish



MS7025



Conventional

MT2015 – CARBIDE GRADE (NON COATED)

Has the usual high wear resistance of carbide but is also tough and therefore resists sudden fracturing. Expected to extend the tool life when machining non-ferrous metals such as aluminium alloys.

VP15TF / VP15KZ – PVD COATED GRADES

(Al,Ti)N coated grade with excellent heat resistance and has high adhesion strength to the carbide substrate. Highly versatile and can be used in a variety of machining processes.

GT SERIES

SELECTION STANDARD

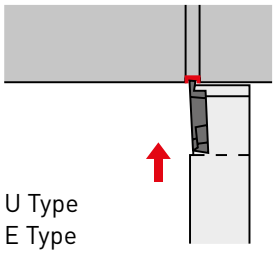
Angle	Name of tool holder		Note	Shank size	Applicable insert type
SQUARE SHANK					
0°	**GTAH**	CW (Groove width) 0.25 – 3.0 mm	Without offset	8 x 8 x 80	GTAT GTBT GTCT
				8 x 8 x 120	
				10 x 10 x 80	
				10 x 10 x 120	
				12 x 12 x 80	
				12 x 12 x 120	
				16 x 16 x 120	
			With offset	20 x 20 x 120	
				25 x 25 x 150	
	GTBH	CW (Groove width) 1.45 – 3.0 mm	Without offset	10 x 10 x 80	GTBT GTCT
				10 x 10 x 120	
				12 x 12 x 120	
				16 x 16 x 120	
			With offset	20 x 20 x 120	
				25 x 25 x 150	
	GTCH	CW (Groove width) 2.5 – 3.0 mm	Without offset	10 x 10 x 80	GTCT
				10 x 10 x 120	
90°	**GTAF**	CW (Groove width) 0.25 – 3.0 mm		10 x 10 x 100	GTAT GTBT GTCT
				12 x 12 x 100	
				16 x 16 x 120	
				20 x 20 x 120	
				25 x 25 x 120	
ROUND SHANK					
90°	**SH-GTAF**	CW (Groove width) 0.25 – 3.0 mm	For back tool post	16 x 85	GTAT GTBT GTCT
				19.05 x 115	
				20 x 100	
				22 x 120	
				25 x 120	
				25.4 x 115	

1/1

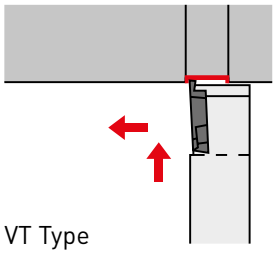
= NEW

GTAH / GTBH / GTCH

EXTERNAL GROOVING

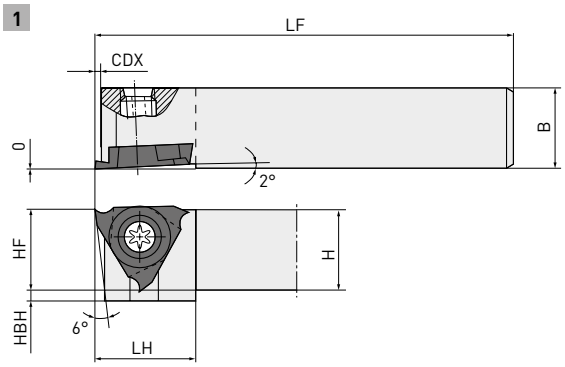


U Type
E Type

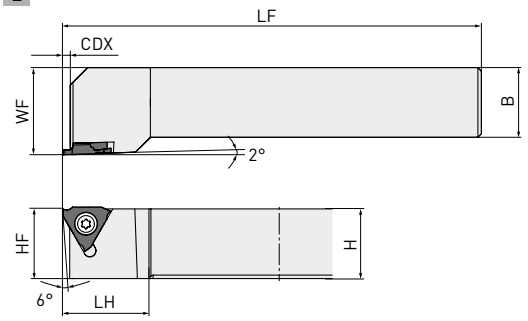


VT Type

1



2



Right hand tool holder shown.

Order number	Stock R	Stock L	H	B	HF	LF	WF	CDX*	LH	HBH	Cutting width min.	Cutting width max.	Type	Insert
GTAHR/L0808-20S	●	●	8	8	8	80	—	2	15	5	0.25	3.0	1	
GTAHR/L0808-20	●	●	8	8	8	120	—	2	15	5	0.25	3.0	1	
GTAHR/L1010-20S	●	●	10	10	10	80	—	2	15	3	0.25	3.0	1	
GTAHR/L1010-20	●	●	10	10	10	120	—	2	15	3	0.25	3.0	1	GTAT
GTAHR/L1212-20S	●	●	12	12	12	80	—	2	15	1	0.25	3.0	1	GTBT*
GTAHR/L1212-20	●	●	12	12	12	120	—	2	15	1	0.25	3.0	1	GTCT*
GTAHR/L1616-20	●	●	16	16	16	120	—	2	15	—	0.25	3.0	1	
NEW GTAHR/L2020-20	●	●	20	20	20	120	25	2	25	—	0.25	3.0	2	
NEW GTAHR/L2525-20	●	●	25	25	25	150	32	2	25	—	0.25	3.0	2	
GTBHR/L1010-30S	●	●	10	10	10	80	—	3	15	3	1.45	3.0	1	
GTBHR/L1010-30	●	●	10	10	10	120	—	3	15	3	1.45	3.0	1	
GTBHR/L1212-30	●	●	12	12	12	120	—	3	15	1	1.45	3.0	1	GTBT
GTBHR/L1616-30	●	●	16	16	16	120	—	3	15	—	1.45	3.0	1	GTCT
NEW GTBHR/L2020-30	●	●	20	20	20	120	25	3	25	—	1.45	3.0	2	
NEW GTBHR/L2525-30	●	●	25	25	25	150	32	3	25	—	1.45	3.0	2	
GTCHR/L1010-30S	●	●	10	10	10	80	—	3	15	3	2.5	3.0	1	
GTCHR/L1010-30	●	●	10	10	10	120	—	3	15	3	2.5	3.0	1	GTCT

(Each case contains 5 inserts. Blank inserts are packed in 10 per case.)

* It is not possible to machine depths over CDX dimensions (max. groove depth).
For the actual maximum depth that can be machined, only check the CDX of the insert.

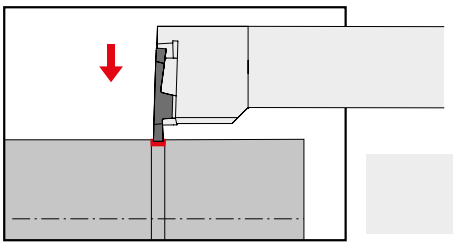
1. Please use right hand inserts for right hand holders and left hand inserts for left hand holders.

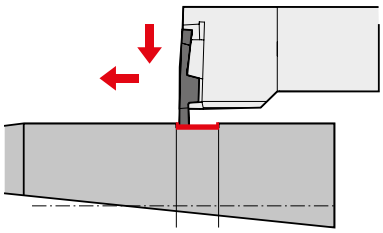
● : Inventory maintained. ★ : Inventory maintained in Japan.

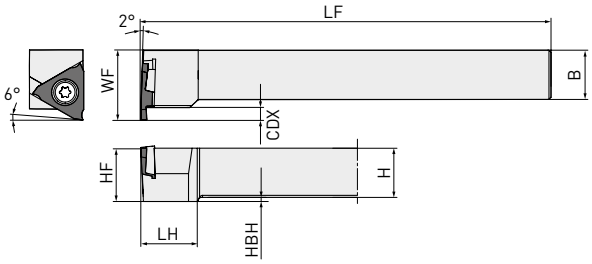
NEW

GTAF

EXTERNAL GROOVING







Right hand tool holder shown.

Order number	Stock		H	B	HF	LF	WF	CDX*	LH	HBH	Cutting width		Insert
	R	L									min.	max.	
GTAFR/L1010-30	●	●	10	10	10	100	15	3	14	3	0.25	3.0	GTAT GTBT* GTCT*
GTAFR/L1212-30	●	●	12	12	12	100	17	3	14	1	0.25	3.0	
GTAFR/L1616-30	●	●	16	16	16	120	21	3	14	—	0.25	3.0	
GTAFR/L2020-30	●	●	10	10	10	120	25	3	14	—	0.25	3.0	
GTAFR/L2525-30	●	●	25	25	25	120	30	3	14	—	0.25	3.0	

1/1

* It is not possible to machine depths over CDX dimensions (max. groove depth).
For the actual maximum depth that can be machined, only check the CDX of the insert.

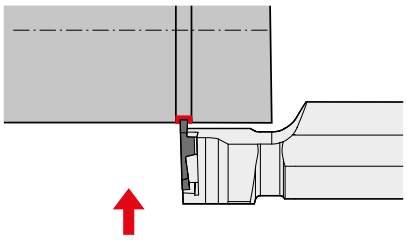
1. Please use left hand insert for right hand holder and right hand insert for left hand holder.

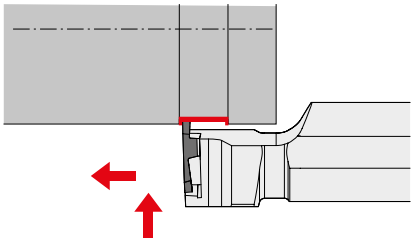
● : Inventory maintained. ★ : Inventory maintained in Japan.

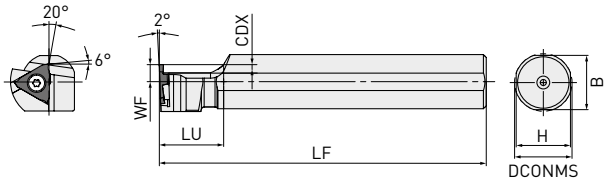
NEW

SH-GTAF

EXTERNAL GROOVING







Left hand tool holder shown.

Order number	Stock		H	B	DCONMS	LF	LU	WF	CDX*	Cutting width		Insert
	R	L								min.	max.	
SH160-GTAFL-30		●	15	15	16	85	18	6	3	0.25	3.0	GTAT GTBT* GTCT*
SH190-GTAFL-30		●	18	18	19.05	115	18	6	3	0.25	3.0	
SH200-GTAFL-30		●	19	19	20	100	18	6	3	0.25	3.0	
SH220-GTAFL-30		●	21	21	22	120	18	6	3	0.25	3.0	
SH250-GTAFL-30		●	24	24	25	120	18	10	3	0.25	3.0	
SH254-GTAFL-30		●	24	24	25.4	115	18	10	3	0.25	3.0	

* It is not possible to machine depths over CDX dimensions (max. groove depth).
For the actual maximum depth that can be machined, only check the CDX of the insert.

1. Please use left hand insert for right hand holder and right hand insert for left hand holder.

SPARE PARTS

GTAH / GTBH / GTCH

Holder type			
	Clamp screw	**Clamp torque (Nm)**	**Wrench**
GT□H-0808, 1010, 1212, 1616	NS404W	1.0	NKY15S
GT□H-2020, 2525	FC400890T	2.5	TKY10F

GTAF

		
Clamp screw	**Clamp torque (Nm)**	**Wrench**
FC400890T	2.5	TKY10F

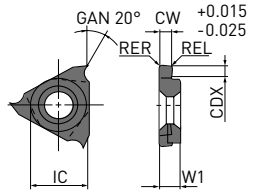
SH-GTAF

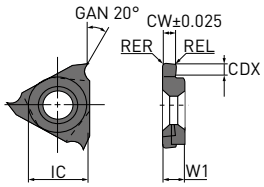
		
Clamp screw	**Clamp torque (Nm)**	**Wrench**
FC400890T	2.5	TKY10F

GT SERIES

INSERTS

	Order number	Hand	MS7025	VP15TF	VP15KZ	MT2015	TF15	CW	CDX*	RER/L	IC	W1	Geometry
NEW	GTAT02506V3RP-E	R	●			●		0.25	0.27	0.03	9.525	3.18	Precision Groove E Type (Ring and circlip grooving)
NEW	GTAT03006V3RP-E	R	●			●		0.30	0.27	0.03	9.525	3.18	
NEW	GTAT03306V3RP-E	R	●			●		0.33	0.27	0.03	9.525	3.18	
NEW	GTAT04312V3RP-E	R	●			●		0.43	0.9	0.03	9.525	3.18	
NEW	GTAT05312V5RP-E	R	●			●		0.53	0.9	0.05	9.525	3.18	
NEW	GTAT05312V5LP-E	L	●			●		0.53	0.9	0.05	9.525	3.18	
	GTAT03306V3R-E	R		●				0.33	0.27	0.03	9.525	3.18	E Type (Ring and circlip grooving)
	GTAT03306V3L-E	L		★				0.33	0.27	0.03	9.525	3.18	
	GTAT04312V3R-E	R		●				0.43	0.9	0.03	9.525	3.18	
	GTAT04312V3L-E	L		★				0.43	0.9	0.03	9.525	3.18	
	GTAT05312V5R-E	R		●				0.53	0.9	0.05	9.525	3.18	
	GTAT05312V5L-E	L		★				0.53	0.9	0.05	9.525	3.18	
NEW	GTAT06512V5R-E	R	●			●		0.65	0.9	0.05	9.525	3.18	
NEW	GTAT06512V5L-E	L	●			●		0.65	0.9	0.05	9.525	3.18	
	GTAT07520V5R-E	R	●	●		●		0.75	1.8	0.05	9.525	3.18	
	GTAT07520V5L-E	L	●	★		●		0.75	1.8	0.05	9.525	3.18	
	GTAT09520V5R-E	R	●	●		●		0.95	1.8	0.05	9.525	3.18	
	GTAT09520V5L-E	L	●	★		●		0.95	1.8	0.05	9.525	3.18	
	GTAT10020V5R-E	R	●	●		●		1.00	1.8	0.05	9.525	3.18	
	GTAT10020V5L-E	L	●	★		●		1.00	1.8	0.05	9.525	3.18	
	GTAT1002001R-E	R		●				1.00	1.8	0.1	9.525	3.18	
	GTAT1002001L-E	L		★				1.00	1.8	0.1	9.525	3.18	
NEW	GTAT11020V5R-E	R	●			●		1.10	1.8	0.05	9.525	3.18	
NEW	GTAT11020V5L-E	L	●			●		1.10	1.8	0.05	9.525	3.18	
	GTAT12020V5R-E	R	●	●		●		1.20	1.8	0.05	9.525	3.18	
	GTAT12020V5L-E	L	●	★		●		1.20	1.8	0.05	9.525	3.18	
	GTAT1202001R-E	R		●				1.20	1.8	0.1	9.525	3.18	
	GTAT1202001L-E	L		★				1.20	1.8	0.1	9.525	3.18	
NEW	GTAT12520V5R-E	R	●			●		1.25	1.8	0.05	9.525	3.18	
NEW	GTAT12520V5L-E	L	●			●		1.25	1.8	0.05	9.525	3.18	
	GTAT14020V5R-E	R	●	●		●		1.40	1.8	0.05	9.525	3.18	
	GTAT14020V5L-E	L	●	★		●		1.40	1.8	0.05	9.525	3.18	
	GTBT14530V5R-E	R	●			●		1.45	2.8	0.05	9.525	3.18	
	GTBT14530V5L-E	L	●			●		1.45	2.8	0.05	9.525	3.18	
	GTBT15030V5R-E	R	●	●		●		1.50	2.8	0.05	9.525	3.18	
	GTBT15030V5L-E	L	●	★		●		1.50	2.8	0.05	9.525	3.18	
	GTBT1503001R-E	R		●				1.50	2.8	0.1	9.525	3.18	
	GTBT1503001L-E	L		★				1.50	2.8	0.1	9.525	3.18	
	GTBT17030V5R-E	R	●			●		1.70	2.8	0.05	9.525	3.18	
	GTBT17030V5L-E	L	●			●		1.70	2.8	0.05	9.525	3.18	
	GTBT17530V5R-E	R	●			●		1.75	2.8	0.05	9.525	3.18	
	GTBT17530V5L-E	L	●			●		1.75	2.8	0.05	9.525	3.18	





Right hand insert shown.

(Each case contains 5 inserts. Blank inserts are packed in 10 per case.)

* CDX is a value that assumes the machining diameter of Ø 42 or less.
Please note that the maximum machining depth is limited by the holder used.

Expansion

● : Inventory maintained. ★ : Inventory maintained in Japan.

GT SERIES – INSERTS

Order number	Hand	MS7025	VP15TF	VP15KZ	MT2015	TF15	CW	CDX*	RER/L	IC	W1	Geometry
GTBT18030V5R-E	R	●	●		●		1.80	2.8	0.05	9.525	3.18	E Type (Ring and circlip grooving)
GTBT18030V5L-E	L	●	★		●		1.80	2.8	0.05	9.525	3.18	
GTBT20030V5R-E	R	●	●		●		2.00	2.8	0.05	9.525	3.18	
GTBT20030V5L-E	L	●	★		●		2.00	2.8	0.05	9.525	3.18	
GTBT2003001R-E	R	●	●				2.00	2.8	0.1	9.525	3.18	
GTBT2003001L-E	L	●	★				2.00	2.8	0.1	9.525	3.18	
GTBT22530V5R-E	R	●	●		●		2.25	2.8	0.05	9.525	3.18	
GTBT22530V5L-E	L	●	★		●		2.25	2.8	0.05	9.525	3.18	
GTBT2253001R-E	R	●					2.25	2.8	0.1	9.525	3.18	
GTBT2253001L-E	L	●					2.25	2.8	0.1	9.525	3.18	
GTCT25030V5R-E	R	●	★		●		2.50	2.8	0.05	9.525	3.18	
GTCT25030V5L-E	L	●	★		●		2.50	2.8	0.05	9.525	3.18	
GTCT2503001R-E	R	●					2.50	2.8	0.1	9.525	3.18	
GTCT2503001L-E	L	●					2.50	2.8	0.1	9.525	3.18	
GTCT27530V5R-E	R	●	★		●		2.75	2.8	0.05	9.525	3.18	
GTCT27530V5L-E	L	●	★		●		2.75	2.8	0.05	9.525	3.18	
GTCT30030V5R-E	R	●	★		●		3.00	2.8	0.05	9.525	3.18	
GTCT30030V5L-E	L	●	★		●		3.00	2.8	0.05	9.525	3.18	
GTCT3003001R-E	R	●					3.00	2.8	0.1	9.525	3.18	
GTCT3003001L-E	L	●					3.00	2.8	0.1	9.525	3.18	*Right hand insert shown.*
GTAT03006V3R-U	R	●	●		●		0.30	0.27	0.03	9.525	3.18	U Type (General purpose grooving)
GTAT03006V3L-U	L	●	★		●		0.30	0.27	0.03	9.525	3.18	
GTAT05012V5R-U	R	●	●		●		0.50	0.9	0.05	9.525	3.18	
GTAT05012V5L-U	L	●	★		●		0.50	0.9	0.05	9.525	3.18	
GTAT07520V5R-U	R	●	●		●		0.75	1.8	0.05	9.525	3.18	
GTAT07520V5L-U	L	●	★		●		0.75	1.8	0.05	9.525	3.18	
GTAT09520V5R-U	R	●	●		●		0.95	1.8	0.05	9.525	3.18	
GTAT09520V5L-U	L	●	★		●		0.95	1.8	0.05	9.525	3.18	
GTAT10020V5R-U	R	●	●		●		1.00	1.8	0.05	9.525	3.18	
GTAT10020V5L-U	L	●	★		●		1.00	1.8	0.05	9.525	3.18	
GTAT10320V5R-U	R		●				1.03	1.8	0.05	9.525	3.18	
GTAT12520V5R-U	R	●	●		●		1.25	1.8	0.05	9.525	3.18	
GTAT12520V5L-U	L	●	★		●		1.25	1.8	0.05	9.525	3.18	
GTBT14530V5R-U	R	●	●		●		1.45	2.8	0.05	9.525	3.18	
GTBT14530V5L-U	L	●	★		●		1.45	2.8	0.05	9.525	3.18	
GTBT15030V5R-U	R	●	●		●		1.50	2.8	0.05	9.525	3.18	
GTBT15030V5L-U	L	●	★		●		1.50	2.8	0.05	9.525	3.18	
GTBT17530V5R-U	R	●	●		●		1.75	2.8	0.05	9.525	3.18	
GTBT17530V5L-U	L	●	★		●		1.75	2.8	0.05	9.525	3.18	
GTBT20030V5R-U	R	●	●		●		2.00	2.8	0.05	9.525	3.18	
GTBT20030V5L-U	L	●	★		●		2.00	2.8	0.05	9.525	3.18	
GTCT25030V5R-U	R	●	★		●		2.50	2.8	0.05	9.525	3.18	
GTCT25030V5L-U	L	●	★		●		2.50	2.8	0.05	9.525	3.18	*Right hand insert shown.*

(Each case contains 5 inserts. Blank inserts are packed in 10 per case.)

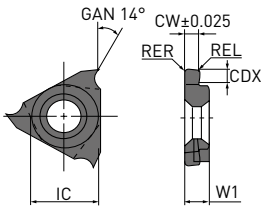
* CDX is a value that assumes the machining diameter of Ø 42 or less.
Please note that the maximum machining depth is limited by the holder used.

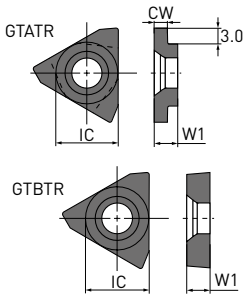
● / ★ = Expansion

● : Inventory maintained. ★ : Inventory maintained in Japan.

GT SERIES – INSERTS

Order number	Hand	MS7025	VP15TF	VP15KZ	MT2015	TF15	CW	CDX*	RER/L	IC	W1	Geometry
GTAT0330600R-VT	R			●			0.33	0.25	0	9.525	3.18	VT Type (Grooving, Side turning)
GTAT0431200R-VT	R			●			0.43	0.9	0	9.525	3.18	
GTAT0532000R-VT	R			●			0.53	1.6	0	9.525	3.18	
GTAT0652000R-VT	R			●			0.65	1.6	0	9.525	3.18	
GTAT0752000R-VT	R			●			0.75	1.6	0	9.525	3.18	
GTAT0802000R-VT	R			●			0.80	1.6	0	9.525	3.18	
GTAT0852000R-VT	R			●			0.85	1.6	0	9.525	3.18	
GTAT0952000R-VT	R			●			0.95	1.6	0	9.525	3.18	
GTAT1002000R-VT	R			●			1.00	1.6	0	9.525	3.18	
GTAT1102000R-VT	R			●			1.10	1.6	0	9.525	3.18	
GTAT1202000R-VT	R			●			1.20	1.6	0	9.525	3.18	
GTAT1302000R-VT	R			●			1.30	1.6	0	9.525	3.18	
GTAT1402000R-VT	R			●			1.40	1.6	0	9.525	3.18	
GTBT1503000R-VT	R			●			1.50	2.7	0	9.525	3.18	
GTBT2003000R-VT	R			●			2.00	2.7	0	9.525	3.18	
GTATR	R					★	1.76	—	—	9.525	3.18	Blank
GTATL	L					★	1.76	—	—	9.525	3.18	
GTBTR	R					★	—	—	—	9.525	3.18	
GTBTL	L					★	—	—	—	9.525	3.18	





Right hand insert shown.

3/3

(Each case contains 5 inserts. Blank inserts are packed in 10 per case.)

* CDX is a value that assumes the machining diameter of Ø 42 or less.
Please note that the maximum machining depth is limited by the holder used.

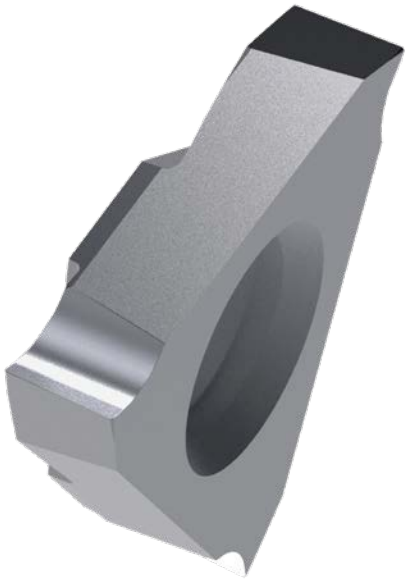
● / ★ = Expansion
● : Inventory maintained. ★ : Inventory maintained in Japan.

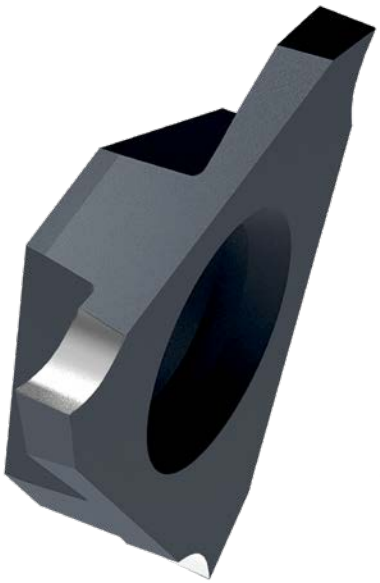
GT SERIES

RECOMMENDED CUTTING CONDITIONS

	Material	Hardness	Grade	Vc	f
P	Pure iron, Free cutting steel	—	MS7025, VP15TF	110 (30 – 180)	0.05 (0.01 – 0.09)
	Carbon steel , Alloy steel	180HB – 280HB	MS7025, VP15TF	100 (50 – 150)	0.05 (0.02 – 0.09)
M	Stainless steel	≤200HB	MS7025	80 (50 – 120)	0.03 (0.02 – 0.05)
N	Non-Ferrous metal	—	MT2015	150 (70 – 230)	0.07 (0.03 – 0.11)

1/1





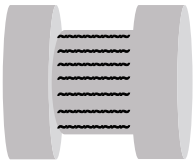
SH-GTAF

APPLICATION EXAMPLES

SUS304: COMPARISON OF MACHINED SURFACES (ROUND SHANK HOLDER)

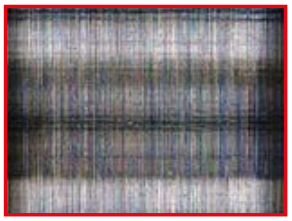
High rigidity and large machining depth provide excellent resistance to chatter and vibration.

Material	SUS304 Ø 16 mm
Vc (m/min)	80
f (mm/rev)	0.03, 0.07
Groove width (mm)	3.0
Groove depth (mm)	1.5
Cutting mode	Wet cutting

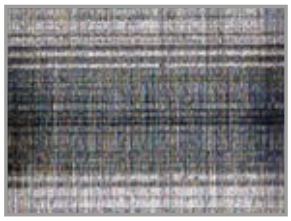


Traces of chatter and vibration

f = 0.03 (mm/rev)



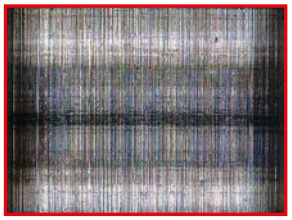
SH-GTAF



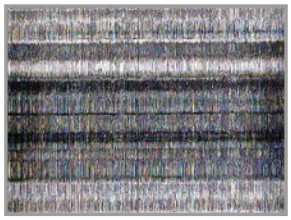
Conventional

Chatter and vibration occurred.

f = 0.07 (mm/rev)



SH-GTAF



Conventional

Chatter and vibration occurred.

MT2015

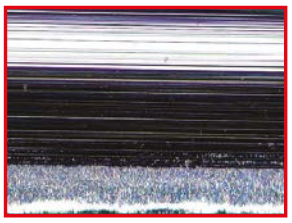
APPLICATION EXAMPLES

COMPARISON OF CUTTING EDGE DAMAGE : A6061

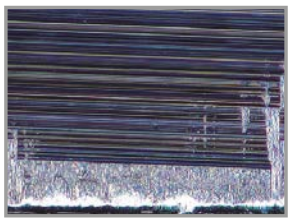
By suppressing damage to the cutting edge caused by chip welding, longer tool life can be expected.

Material	A6061 Ø 18 mm
Vc (m/min)	150
f (mm/rev)	0.04
Radial depth of cut (mm)	2.5
Cutting mode	Wet cutting

AFTER 1 MACHINING PASS

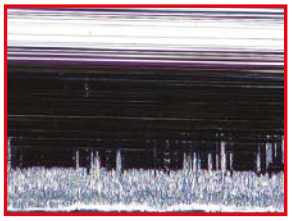


GTBT – MT2015

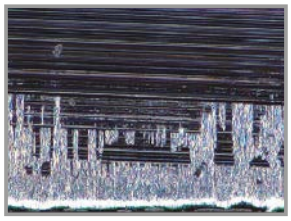


Conventional

AFTER 50 MACHINING PASSES

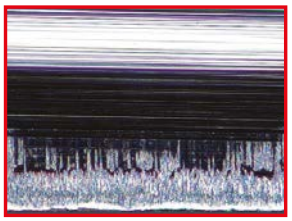


GTBT – MT2015

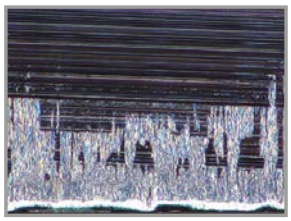


Conventional

AFTER 100 MACHINING PASSES



GTBT – MT2015



Conventional

MS7025

APPLICATION EXAMPLES

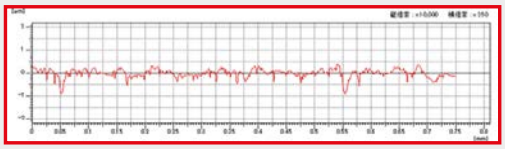
COMPARISON OF SURFACE ROUGHNESS AND CUTTING EDGE DAMAGE: PURE IRON-BASED SOFT MAGNETIC MATERIALS

The component surface roughness is excellent because damage caused by welding is suppressed. It also has excellent wear resistance.

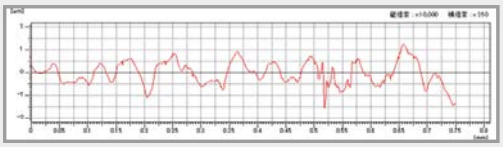
SURFACE ROUGHNESS WHEN FINISHING A GROOVE WITH A BOTTOM DIAMETER OF 11MM

MS7025 achieves a good component surface finish from the start of machining and maintains excellent consistency even after 100 passes.

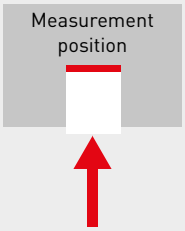
AFTER 50 MACHINING PASSES



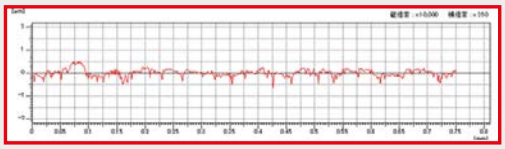
GTBT – MS7025



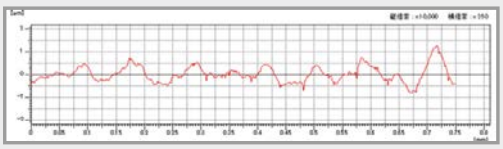
Conventional



AFTER 100 MACHINING PASSES



GTBT – MS7025



Conventional

CUTTING EDGE DAMAGE

Material	Pure iron-based soft magnetic material Ø16 mm
Vc (m/min)	150
f (mm/rev)	0.04
Radial depth of cut (mm)	2.5
Cutting mode	Wet cutting

AFTER 50 MACHINING PASSES

GTBT - MS7025

Conventional
Chipping occurred due to welding.

AFTER 100 MACHINING PASSES

GTBT - MS7025

Conventional

EUROPEAN SALES COMPANIES

GERMANY
MITSUBISHI MATERIALS TOOLS EUROPE GMBH
Comeniusstr. 2 . 40670 Meerbusch
Phone +49 2159 91890 . Fax +49 2159 918966
Email admin@mmchg.de

UK Office
MMC HARDMETAL UK LTD
1 Centurion Court, Centurion Way
Tamworth, B77 5PN
Phone +44 1827 312312
Email sales@mitsubishicarbide.co.uk

UK Deliveries / Returns
Unit 4 B5K Business Park, Quartz Close
Tamworth, B77 4GR

SPAIN
MITSUBISHI MATERIALS ESPAÑA, S.A.
Calle Emperador 2 . 46136 Museros / Valencia
Phone +34 96 1441711
Email comercial@mmevalencia.es

FRANCE
MMC METAL FRANCE S.A.R.L.
6, Rue Jacques Monod . 91400 Orsay
Phone +33 1 69 35 53 53 . Fax +33 1 69 35 53 50
Email mmfsales@mmc-metal-france.fr

POLAND
MMC HARDMETAL POLAND SP. Z O.O
Al. Armii Krajowej 61 . 50 - 541 Wroclaw
Phone +48 71335 1620 . Fax +48 71335 1621
Email sales@mitsubishicarbide.com.pl

ITALY
MMC ITALIA S.R.L.
Viale Certosa 144 . 20156 Milano
Phone +39 0293 77031 . Fax +39 0293 589093
Email info@mmc-italia.it

TURKEY
MITSUBISHI MATERIALS TOOLS EUROPE GMBH ALMANYA İZMİR MERKEZ ŞUBESİ
Adalet Mahallesi Anadolu Caddesi No: 41-1 . 15001 35530 Bayraklı / İzmir
Phone +90 232 5015000 . Fax +90 232 5015007
Email info@mmchg.com.tr

www.mmc-carbide.com

DISTRIBUTED BY:

B282E
Published by: MITSUBISHI MATERIALS TOOLS EUROPE | 2025.10