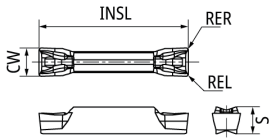


Face Grooving

SCRUM DUO BLADE

GWPFM.. series/Insert Carbide

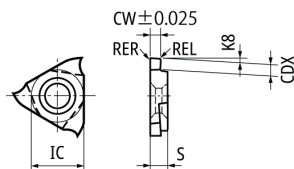
GWPFM-GT



Item Number	Hand	Chip-breaker	CW	INSL	REL	RER	S	Carbide PVD DM4
			mm	mm	mm	mm	mm	
GWPFM300N02-GT	N	Yes	3	24.5	0.2	0.2	4.2	●
GWPFM300N04-GT	N	Yes	3	24.5	0.4	0.4	4.2	●
GWPFM400N04-GT	N	Yes	4	26.5	0.4	0.4	4.2	●
GWPFM400N08-GT	N	Yes	4	26.5	0.8	0.8	4.2	●
GWPFM500N04-GT	N	Yes	5	26.5	0.4	0.4	4.2	●
GWPFM500N08-GT	N	Yes	5	26.5	0.8	0.8	4.2	●
GWPFM600N04-GT	N	Yes	6	26.5	0.4	0.4	4.2	●
GWPFM600N08-GT	N	Yes	6	26.5	0.8	0.8	4.2	●

OD Grooving | GTMH(X)32.. series/Inserts Carbide

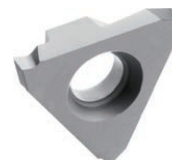
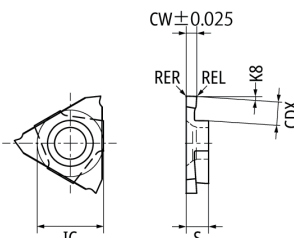
■ GTMH32-GX Side Turning / 3D mold chipbreaker



● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	APMX	CDX	CW	EPSR	GAN	IC	K8	REL	RER	S	Carbide PVD		
			mm	mm	mm	°	°	mm	°	mm	mm	mm	DM4	ST4	TM4
GTMH32033RGX	R	Yes	0.25	0.6	0.33	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32043RGX	R	Yes	0.9	1.2	0.43	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32050RGX	R	Yes	0.9	1.2	0.5	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32053RGX	R	Yes	0.9	1.2	0.53	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32075RGX	R	Yes	1.6	2	0.75	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32095RGX	R	Yes	1.6	2	0.95	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32100RGX	R	Yes	1.6	2	1	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32100RGX01	R	Yes	1.6	2	1	60	17	9.525	2	0.1	0.1	3.18	●	●	●
GTMH32150RGX	R	Yes	2.7	3	1.5	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32150RGX01	R	Yes	2.7	3	1.5	60	17	9.525	2	0.1	0.1	3.18	●	●	●
GTMH32150RGX02	R	Yes	2.7	3	1.5	60	17	9.525	2	0.2	0.2	3.18	●	●	●
GTMH32200RGX	R	Yes	2.7	3	2	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32200RGX01	R	Yes	2.7	3	2	60	17	9.525	2	0.1	0.1	3.18	●	●	●
GTMH32200RGX02	R	Yes	2.7	3	2	60	17	9.525	2	0.2	0.2	3.18	●	●	●
GTMH32300RGX	R	Yes	2.7	3	3	60	17	9.525	2	0.05	0.05	3.18	●	●	●
GTMH32300RGX02	R	Yes	2.7	3	3	60	17	9.525	2	0.2	0.2	3.18	●	●	●

■ GTMX32-T Side Turning



● Diagram shows right-hand tool

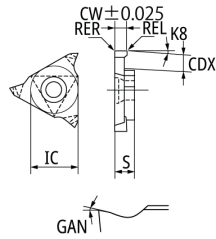
Item Number	Hand	Chip-breaker	APMX	CDX	CW	EPSR	GAN	IC	K8	REL	RER	S	Carbide PVD	
			mm	mm	mm	°	°	mm	°	mm	mm	mm	QM3	DT4
GTMX32030RT	R	Yes	0.25	0.6	0.3	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32033RT	R	Yes	0.25	0.6	0.33	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32043RT	R	Yes	0.9	1.2	0.43	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32050RT	R	Yes	0.9	1.2	0.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32053RT	R	Yes	0.9	1.2	0.53	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32065RT	R	Yes	0.9	1.2	0.65	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32075RT	R	Yes	1.6	2	0.75	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32080RT	R	Yes	1.6	2	0.8	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32095RT	R	Yes	1.6	2	0.95	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32100RT	R	Yes	1.6	2	1	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32110RT	R	Yes	1.6	2	1.1	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32120RT	R	Yes	1.6	2	1.2	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32125RT	R	Yes	1.6	2	1.25	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32130RT	R	Yes	1.6	2	1.3	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32140RT	R	Yes	1.6	2	1.4	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32145RT	R	Yes	2.7	3	1.45	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32150RT	R	Yes	2.7	3	1.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32160RT	R	Yes	2.7	3	1.6	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32175RT	R	Yes	2.7	3	1.75	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32180RT	R	Yes	2.7	3	1.8	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32200RT	R	Yes	2.7	3	2	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32250RT	R	Yes	2.7	3	2.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32300RT	R	Yes	2.7	3	3	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32100RT01	R	Yes	1.6	2	1	60	14	9.525	2	0.1	0.1	3.18	●	●
GTMX32120RT01	R	Yes	1.6	2	1.2	60	14	9.525	2	0.1	0.1	3.18	●	●
GTMX32150RT01	R	Yes	2.7	3	1.5	60	14	9.525	2	0.1	0.1	3.18	●	●
GTMX32200RT01	R	Yes	2.7	3	2	60	14	9.525	2	0.1	0.1	3.18	●	●
GTMX32250RT01	R	Yes	2.7	3	2.5	60	14	9.525	2	0.1	0.1	3.18	●	●
GTMX32150RT02	R	Yes	2.7	3	1.5	60	14	9.525	2	0.2	0.2	3.18	●	●
GTMX32200RT02	R	Yes	2.7	3	2	60	14	9.525	2	0.2	0.2	3.18	●	●
GTMX32250RT02	R	Yes	2.7	3	2.5	60	14	9.525	2	0.2	0.2	3.18	●	●
GTMX32300RT02	R	Yes	2.7	3	3	60	14	9.525	2	0.2	0.2	3.18	●	●
GTMX32050LT	L	Yes	0.9	1.2	0.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32075LT	L	Yes	1.6	2	0.75	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32095LT	L	Yes	1.6	2	0.95	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32150LT	L	Yes	2.7	3	1.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32200LT	L	Yes	2.7	3	2	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32250LT	L	Yes	2.7	3	2.5	60	14	9.525	2	0.05	0.05	3.18	●	●
GTMX32200LT01	L	Yes	2.7	3	2	60	14	9.525	2	0.1	0.1	3.18	●	●

T
Grooving/
Side-Turning

OD Grooving

GTMT(A)43.. series/Inserts Carbide

GTMT43

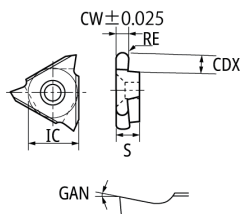


● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	APMX	CDX	CW	EPSR	GAN	IC	K8	REL	RER	S	Carbide PVD	
			mm	mm	mm	°	°	mm	°	mm	mm	mm	DM4	QM3
GTMT43145R	R	Yes	3	3.5	1.45	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43150R	R	Yes	3	3.5	1.5	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43175R	R	Yes	3	3.5	1.75	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43185R	R	Yes	3	3.5	1.85	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43200R	R	Yes	3	3.5	2	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43230R	R	Yes	3	3.5	2.3	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43250R	R	Yes	4.3	5.5	2.5	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43265R	R	Yes	4.3	5.5	2.65	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43280R	R	Yes	4.3	5.5	2.8	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43300R	R	Yes	4.3	5.5	3	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43330R	R	Yes	4.3	5.5	3.3	60	11	12.7	2	0.3	0.3	4.76		●
GTMT43350R	R	Yes	4.3	5.5	3.5	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43400R	R	Yes	4.3	5.5	4	60	11	12.7	2	0.4	0.4	4.76	●	●
GTMT43450R	R	Yes	4.3	5.5	4.5	60	11	12.7	2	0.4	0.4	4.76	●	●
GTMT43500R	R	Yes	4.3	5.5	5	60	11	12.7	2	0.4	0.4	5.76	●	●
GTMT43550R	R	Yes	4.3	5.5	5.5	60	11	12.7	2	0.4	0.4	5.76	●	●
GTMT43145L	L	Yes	3	3.5	1.45	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43150L	L	Yes	3	3.5	1.5	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43175L	L	Yes	3	3.5	1.75	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43185L	L	Yes	3	3.5	1.85	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43200L	L	Yes	3	3.5	2	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43230L	L	Yes	3	3.5	2.3	60	11	12.7	2	0.2	0.2	4.76	●	●
GTMT43280L	L	Yes	4.3	5.5	2.8	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43300L	L	Yes	4.3	5.5	3	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43330L	L	Yes	4.3	5.5	3.3	60	11	12.7	2	0.3	0.3	4.76		●
GTMT43350L	L	Yes	4.3	5.5	3.5	60	11	12.7	2	0.3	0.3	4.76	●	●
GTMT43400L	L	Yes	4.3	5.5	4	60	11	12.7	2	0.4	0.4	4.76	●	●
GTMT43450L	L	Yes	4.3	5.5	4.5	60	11	12.7	2	0.4	0.4	4.76	●	●
GTMT43500L	L	Yes	4.3	5.5	5	60	11	12.7	2	0.4	0.4	5.76	●	●
GTMT43550L	L	Yes	4.3	5.5	5.5	60	11	12.7	2	0.4	0.4	5.76	●	●

T
Grooving/
Side-turning

GTMA43 Full radius style

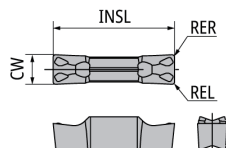


● Diagram shows right-hand tool

Item Number			APMX	CDX	CW	EPSR	GAN	IC	RE	S	Carbide PVD	
			mm	mm	mm	°	°	mm	mm	mm	QM3	
GTMA43200R10R	R	Yes	3	3.5	2	60	11	12.7	1	4.76	●	
GTMA43300R15R	R	Yes	4.5	5.5	3	60	11	12.7	1.5	4.76	●	
GTMA43400R20R	R	Yes	4.5	5.5	4	60	11	12.7	2	4.76	●	

GWPG(M).. series/Insert Carbide

GWPG(M)-GW Best for side turning

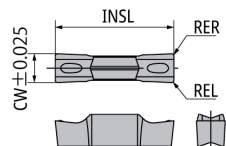


Item Number	Hand	Chip-breaker	CW	INSL	REL	RER	Carbide PVD DM4
			mm	mm	mm	mm	
GWPG300N02D-GW	N	Yes	3	20.6	0.2	0.2	●
GWPG300N04D-GW	N	Yes	3	20.6	0.4	0.4	●
GWPG400N02E-GW	N	Yes	4	20.6	0.2	0.2	●
GWPG400N04E-GW	N	Yes	4	20.6	0.4	0.4	●
GWPG400N08E-GW	N	Yes	4	20.6	0.8	0.8	●
GWPG500N02F-GW	N	Yes	5	20.6	0.2	0.2	●
GWPG500N04F-GW	N	Yes	5	20.6	0.4	0.4	●
GWPG500N08F-GW	N	Yes	5	20.6	0.8	0.8	●
GWPG600N02G-GW	N	Yes	6	25.6	0.2	0.2	●
GWPG600N04G-GW	N	Yes	6	25.6	0.4	0.4	●
GWPG600N08G-GW	N	Yes	6	25.6	0.8	0.8	●
GWPM300N04D-GW	N	Yes	3	20.6	0.4	0.4	●
GWPM400N04E-GW	N	Yes	4	20.6	0.4	0.4	●
GWPM500N04F-GW	N	Yes	5	20.6	0.4	0.4	●
GWPM600N04G-GW	N	Yes	6	25.6	0.4	0.4	●

GWPG.. : Outside ground
Width tolerance ± 0.025
GWPM.. : Full-molded
Width tolerance ± 0.05

T
Grooving/
Side-Turning

GWPG-GV Less tool pressure design



Item Number	Hand	Chip-breaker	CW	INSL	REL	RER	Carbide PVD DM4
			mm	mm	mm	mm	
GWPG300N02D-GV	N	Yes	3	20.6	0.2	0.2	●
GWPG300N04D-GV	N	Yes	3	20.6	0.4	0.4	●
GWPG400N02E-GV	N	Yes	4	20.6	0.2	0.2	●
GWPG400N04E-GV	N	Yes	4	20.6	0.4	0.4	●
GWPG500N02F-GV	N	Yes	5	20.6	0.2	0.2	●
GWPG500N04F-GV	N	Yes	5	20.6	0.4	0.4	●
GWPG600N02G-GV	N	Yes	6	25.6	0.2	0.2	●
GWPG600N04G-GV	N	Yes	6	25.6	0.4	0.4	●