Grooving & Parting Tool Series Introduction 切槽及切斷系列介紹

MGEH Series

- Use MGMN200/300/400, MRMN200/300/400 inserts.
- For grooving (Depth < 20mm) of small workpieces in automatic lathe or small machine.

- 使用 MGMN200/300/400, MRMN200/300/400 刀片
- 適用於自動車床或小型機台，小型工件的切槽加工 (切深 < 20mm)

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KGM Series

- Use GMM2020, GMM2520, GMM3020 inserts.
- For grooving (Depth < 20mm) of small workpieces in automatic lathe or small machine.

- 使用 GMM2020, GMM2520, GMM3020 刀片
- 適用於自動車床或小型機台，小型工件的切槽加工 (切深 < 20mm)

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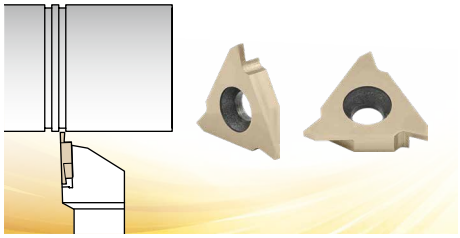
TGF Series



- Use TGF32 inserts for vertical grooving.
- For shallow grooving (Depth < 2.5mm) of small workpieces in automatic lathe or small machine.

- 使用 TGF32 刀片適用於立式切槽加工
- 適用於自動車床或小型機台，小型工件的淺切槽加工 (切深 < 2.5mm)

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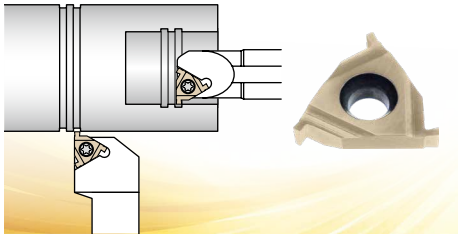
TGL Series



- Use TGL11 or TGL16 inserts for laydown grooving.
- For shallow grooving (Depth < 2.5mm) of small workpieces in automatic lathe or small machine.

- 使用 TGL11 或 TGL16 刀片適用於臥式切槽加工
- 適用於自動車床或小型機台，小型工件的淺切槽加工 (切深 < 2.5mm)

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SGIH Series

- Use TGTN0220, TGTN0310, TGTN0410 inserts.
- For parting (Depth < 40mm) of large workpieces.

- 使用 TGTN0220, TGTN0310, TGTN0410 刀片
- 適用於大型工件的切斷加工 (切深 < 40mm)

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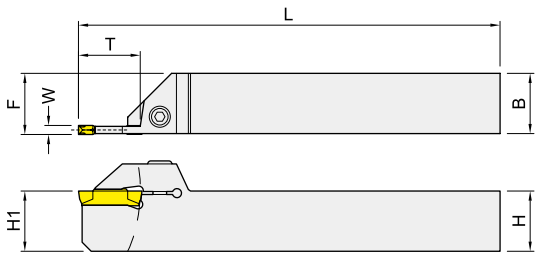
MGEH Grooving Tools (Depth < 20mm) MGEH 切槽刀 (切深 < 20mm)

Tool Holder Specifications 刀桿規格



Right-hand shown

Insert Brand 建議刀片 : Winstar, Korloy, ...

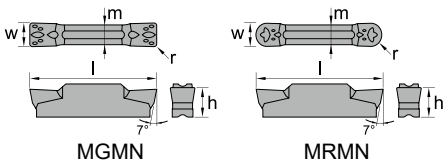
Order No. 訂購編碼	Dimensions (mm)						Inserts	Screw	Wrench
	H (H1)	B	L	F	T	W			
IMGEH$^{R}/_{L}$1616K2T16T	16	16	125	16.25	16	2.0	MGMN200.. MRMN200..	IHTMT520	IETL25
IMGEH$^{R}/_{L}$2020K2T20T	20	20	125	20.25	20	2.0		IHTMT525	IETL25
IMGEH$^{R}/_{L}$2525M2T20T	25	25	150	25.25	20	2.0		IHTMT525	IETL25
IMGEH$^{R}/_{L}$1616K3T20T	16	16	125	16.30	20	3.0	MGMN300.. MRMG300..	IHTMT520	IETL25
IMGEH$^{R}/_{L}$2020K3T20T	20	20	125	20.30	20	3.0		IHTMT525	IETL25
IMGEHR2525M3T20T	25	25	150	25.30	20	3.0		IHTMT525	IETL25
IMGEHR2525M4T20T	25	25	150	25.35	20	4.0	MGMN400.. MRMN400..	IHTMT525	IETL25

MGEH Grooving Tools (Depth < 20mm) MGEH 切槽刀 (切深 < 20mm)

Insert Specifications 刀片規格

Insert	Dimensions (mm)				
	w	r	l	h	m
MGMN200	2.0	0.2	16	3.5	1.60
MGMN300	3.0	0.4	21	4.8	2.35
MGMN400	4.0	0.4	21	4.8	3.30
MRMN200	2.0	1.0	16	3.5	1.60
MRMN300	3.0	1.5	21	4.8	2.35
MRMN400	4.0	2.0	21	4.8	3.30

Chipbreaker	
MG	For general cutting



Insert Designation 刀片型號

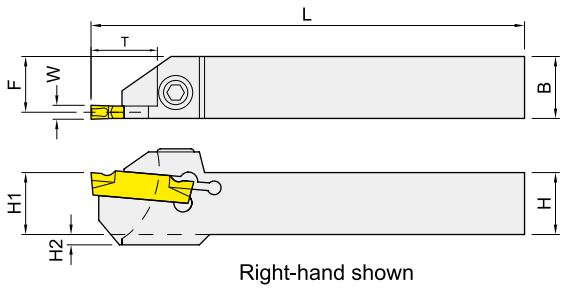
Inserts	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IMGMN200SG33TX	MGMN200-SG-CX33TX	●	●	●		●	●
	IMGMN200SG43TX	MGMN200-SG-CX43TX	●	●	●		○	
	IMGMN300MG33TX	MGMN300-MG-CX33TX	●	●	●		●	●
	IMGMN300MG43TX	MGMN300-MG-CX43TX	●	●	●		○	
	IMGMN400MG33TX	MGMN400-MG-CX33TX	●	●	●		●	●
	IMGMN400MG43TX	MGMN400-MG-CX43TX	●	●	●		○	
	IMRMN200MG33TX	MRMN200-MG-CX33TX	●	●	●		●	●
	IMRMN200MG43TX	MRMN200-MG-CX43TX	●	●	●		○	
	IMRMN300MG33TX	MRMN300-MG-CX33TX	●	●	●		●	●
	IMRMN300MG43TX	MRMN300-MG-CX43TX	●	●	●		○	
	IMRMN400MG33TX	MRMN400-MG-CX33TX	●	●	●		●	●
	IMRMN400MG43TX	MRMN400-MG-CX43TX	●	●	●		○	

＊ CX33TX for General cutting.
CX43TX for Interrupted cutting.

KGM Grooving Tools (Depth < 20mm)

KGM 切槽刀 (切深 < 20mm)

Tool Holder Specifications 刀桿規格



Right-hand shown

Insert Brand 建議刀片 : Winstar, Kyocera, ...

Order No. 訂購編碼	Dimensions (mm)						W (mm)		Inserts	Screw	Wrench
	H (H1)	B	L	F	T	H2	min	max			
IKGM$^{R}_{L}$1212K1.5L10	12	12	125	11.4	10	2	1.5	2.0	GMM2020..	IHTM416	IPL30
IKGM$^{R}_{L}$1616K1.5L10	16	16	125	15.4	10	-	1.5	2.0		IHTMT520	IETL25
IKGM$^{R}_{L}$2020K1.5L10	20	20	125	19.4	10	-	1.5	2.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M1.5L10	25	25	150	24.4	10	-	1.5	2.0		IHTMT525	IETL25
IKGM$^{R}_{L}$1212K2TL10	12	12	125	11.1	10	2	2.0	3.0	GMM2020.. GMM2520.. GMM3020..	IHTM416	IPL30
IKGM$^{R}_{L}$1616K2TL10	16	16	125	15.1	10	-	2.0	3.0		IHTMT520	IETL25
IKGM$^{R}_{L}$2020K2TL10	20	20	125	19.1	10	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M2TL10	25	25	150	24.1	10	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$1212K2TL13	12	12	125	11.1	13	3	2.0	3.0		IHTM420	IPL30
IKGM$^{R}_{L}$1616K2TL13	16	16	125	15.1	13	-	2.0	3.0		IHTMT520	IETL25
IKGM$^{R}_{L}$2020K2TL13	20	20	125	19.1	13	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M2TL13	25	25	150	24.1	13	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$1212K2TL17	12	12	125	11.1	17	4	2.0	3.0		IHTM420	IPL30
IKGM$^{R}_{L}$1616K2TL17	16	16	125	15.1	17	-	2.0	3.0		IHTMT520	IETL25
IKGM$^{R}_{L}$2020K2TL17	20	20	125	19.1	17	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M2TL17	25	25	150	24.1	17	-	2.0	3.0		IHTMT525	IETL25
IKGM$^{R}_{L}$1616K3TL16	16	16	125	14.8	16	-	3.0	4.0	GMM3020..	IHTMT520	IETL25
IKGM$^{R}_{L}$2020K3TL16	20	20	125	18.8	16	-	3.0	4.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M3TL16	25	25	150	23.8	16	-	3.0	4.0		IHTMT525	IETL25
IKGM$^{R}_{L}$1616K3TL20	16	16	125	14.8	20	4	3.0	4.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2020K3TL20	20	20	125	18.8	20	-	3.0	4.0		IHTMT525	IETL25
IKGM$^{R}_{L}$2525M3TL20	25	25	150	23.8	20	-	3.0	4.0		IHTMT525	IETL25
IKGMR3232P3TL20	32	32	170	30.8	20	-	3.0	4.0		IHTMT525	IETL25

KGM Grooving Tools (Depth < 20mm) KGM 切槽刀 (切深 < 20mm)

Insert Specifications 刀片規格

Insert	Dimensions (mm)						Fig.
	w	r	l	h	m	k°	
GMM2020	2.0	0.20	20	4.3	1.5	-	1
GMM2020R06	2.0	0.20	20	4.3	1.5	6°	2
GMM2020R15	2.0	0.05	20	4.3	1.5	15°	2
GMM2020L15	2.0	0.05	20	4.3	1.5	15°	3
GMM2520	2.5	0.20	20	4.3	1.9	-	1
GMM2520R06	2.5	0.20	20	4.3	1.9	6°	2
GMM2520R15	2.5	0.05	20	4.3	1.9	15°	2
GMM2520L15	2.5	0.05	20	4.3	1.9	15°	3
GMM3020	3.0	0.25	20	4.3	2.3	-	1
GMM3020R06	3.0	0.25	20	4.3	2.3	6°	2
GMM3020R15	3.0	0.05	20	4.3	2.3	15°	2
GMM3020L15	3.0	0.05	20	4.3	2.3	15°	3

Chipbreaker	
MR	For high feed cutting

Fig. 1

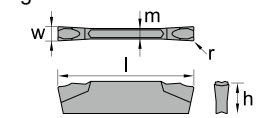


Fig. 2

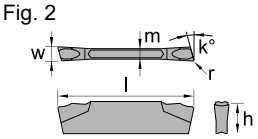
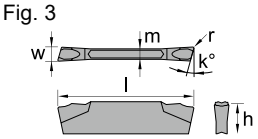


Fig. 3



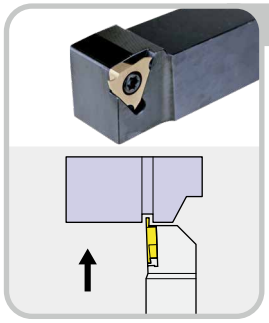
Insert Designation 刀片型號

InserTX	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IGMM2020MR33TX	GMM2020-MR-CX33TX	●	●	●		●	●
	IGMM2020MR43TX	GMM2020-MR-CX43TX	●	●	●		○	
	IGMM2520MR33TX	GMM2520-MR-CX33TX	●	●	●		●	●
	IGMM3020MR33TX	GMM3020-MR-CX33TX	●	●	●		●	●
	IGMM2020R06MR33TX	GMM2020R06-MR-CX33TX	●	●	●		●	●
	IGMM2020R06MR43TX	GMM2020R06-MR-CX43TX	●	●	●		○	
	IGMM2520R06MR33TX	GMM2520R06-MR-CX33TX	●	●	●		●	●
	IGMM3020R06MR33TX	GMM3020R06-MR-CX33TX	●	●	●		●	●
	IGMM2020R15MR33TX	GMM2020R15-MR-CX33TX	●	●	●		●	●
	IGMM2020L15MR33TX	GMM2020L15-MR-CX33TX	●	●	●		●	●
	IGMM2020R15MR43TX	GMM2020R15-MR-CX43TX	●	●	●		○	
	IGMM2020L15MR43TX	GMM2020L15-MR-CX43TX	●	●	●		○	
	IGMM2520R15MR33TX	GMM2520R15-MR-CX33TX	●	●	●		●	●
	IGMM2520L15MR33TX	GMM2520L15-MR-CX33TX	●	●	●		●	●
	IGMM3020R15MR33TX	GMM3020R15-MR-CX33TX	●	●	●		○	●
	IGMM3020L15MR33TX	GMM3020L15-MR-CX33TX	●	●	●		○	●

＊ CX33TX for General cutting.
CX43TX for Interrupted cutting.

TGF Shallow Grooving Tools (Vertical , Depth < 2.5mm) TGF 淺切槽刀 (立式 , 切深 < 2.5mm)

Tool Holder Specifications 刀桿規格



KTGF

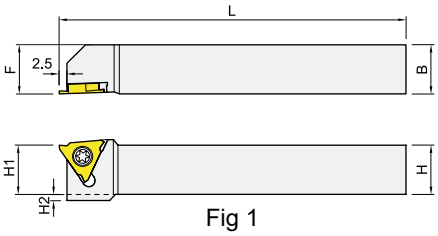


Fig 1

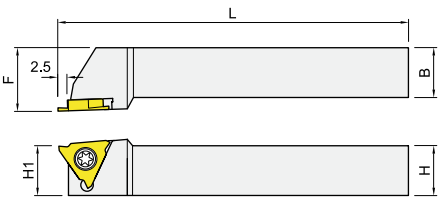
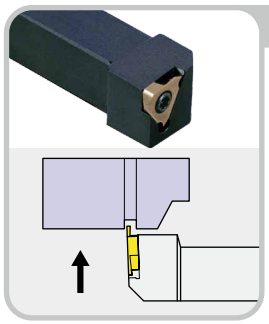


Fig 2

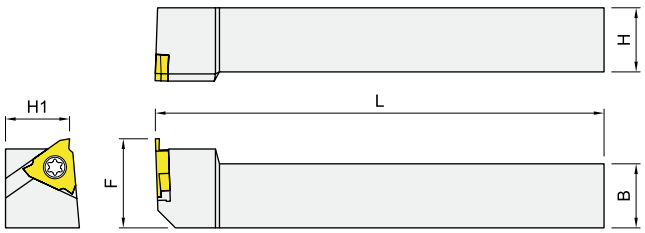
Right-hand shown

Insert Brand 建議刀片 : Winstar, Kyocera, ...

Order No. 訂購編碼	Dimensions (mm)					Insert	Screw	Wrench	Fig
	H(H1)	B	L	H2	F				
IKTGF$^{R}/_{L}$1010K16F	10	10	125	4	10	TGF32R TGF32L	IMS4009A	ITK15	1
IKTGFR1012K16F	10	12	125	2	12		IMS4011A		
IKTGF$^{R}/_{L}$1212K16F	12	12	125	2	12				
IKTGF$^{R}/_{L}$1616K16F	16	16	125	-	16				
IKTGFR2020K16F	20	20	125	-	20	TGF32R			
IKTGF$^{R}/_{L}$1616K16	16	16	125	-	20	TGF32R TGF32L			2
IKTGF$^{R}/_{L}$2020K16	20	20	125	-	25				
IKTGF$^{R}/_{L}$2525M16	25	25	150	-	32				



KTGFS



Left-hand shown

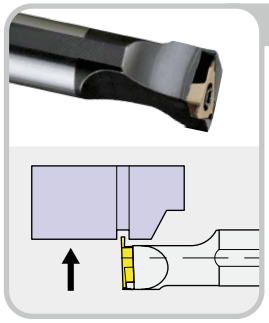
Insert Brand 建議刀片 : Winstar, Kyocera, ...

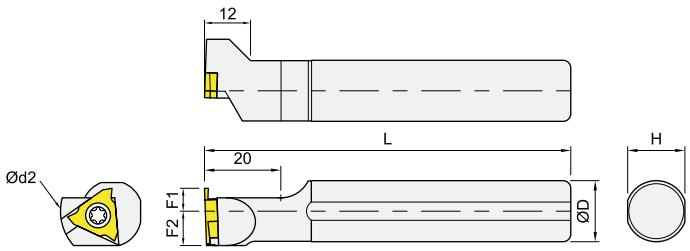
Order No. 訂購編碼	Dimensions (mm)				Insert	Screw	Wrench
	H(H1)	B	L	F			
IKTGFSL1616K16	16	16	125	22	TGF32R	IMS4009A	ITK15
IKTGFSL2020K16	20	20	125	26			

TGF Shallow Grooving Tools (Vertical , Depth < 2.5mm) TGF 淺切槽刀 (立式 , 切深 < 2.5mm)

Tool Holder Specifications 刀桿規格

KTGFL





Left-hand shown

Insert Brand 建議刀片 : Winstar, Kyocera, ...

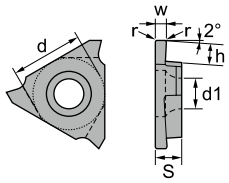
Order No. 訂購編碼	Dimensions (mm)						Insert	Screw	Wrench
	D	L	H	F1	F2	d2			
IS16HKTGFL16	16	100	15	6	9	27	TGF32R	IMS4009A	ITK15

Recommended Cutting Conditions 建議切削數據

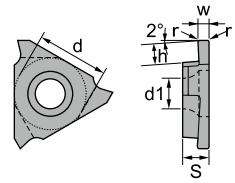
Working Material	Vc (m/min)	fr (mm/rev)
Carbon Steel / Alloy Steel	50 ~ 200	0.02 ~ 0.10
Stainless Steel	50 ~ 200	0.02 ~ 0.10
Cast Iron	50 ~ 200	0.02 ~ 0.10
Aluminum Alloy	200 ~ 300	0.05 ~ 0.15
High Temperature Alloy	80 ~ 120	0.03 ~ 0.07
Hardened Steel	80 ~ 120	0.03 ~ 0.07

KTGF Shallow Grooving Tools (Vertical , Depth < 2.5mm) KTGF 淺切槽刀 (立式 , 切深 < 2.5mm)

Insert Designation 刀片型號



Right hand



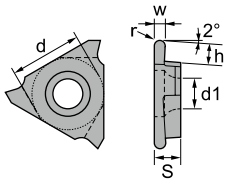
Left hand

Order No. 訂購編碼	Designation	Dimensions (mm)						Max Depth of Cut		Working Material					
		w	h	r	S	d	d1	O.D.	I.D.	P	M	K	N	S	H
ITGF32R0336025	TGF32R033-CP6025	0.33	1.0	0.05	3.18	9.525	4.4	0.8	0.5	●	●	●		○	○
ITGF32L0336025	TGF32L033-CP6025	0.33	1.0	0.05	3.18	9.525	4.4	0.8	0.5	●	●	●		○	○
ITGF32R0506025	TGF32R050-CP6025	0.50	1.4	0.05	3.18	9.525	4.4	1.2	0.8	●	●	●		○	○
ITGF32L0506025	TGF32L050-CP6025	0.50	1.4	0.05	3.18	9.525	4.4	1.2	0.8	●	●	●		○	○
ITGF32R0756025	TGF32R075-CP6025	0.75	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L0756025	TGF32L075-CP6025	0.75	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R0956025	TGF32R095-CP6025	0.95	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L0956025	TGF32L095-CP6025	0.95	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1006025	TGF32R100-CP6025	1.00	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1006025	TGF32L100-CP6025	1.00	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1106025	TGF32R110-CP6025	1.10	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1106025	TGF32L110-CP6025	1.10	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1256025	TGF32R125-CP6025	1.25	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1256025	TGF32L125-CP6025	1.25	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1356025	TGF32R135-CP6025	1.35	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1356025	TGF32L135-CP6025	1.35	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1456025	TGF32R145-CP6025	1.45	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1456025	TGF32L145-CP6025	1.45	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1506025	TGF32R150-CP6025	1.50	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1506025	TGF32L150-CP6025	1.50	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1656025	TGF32R165-CP6025	1.65	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1656025	TGF32L165-CP6025	1.65	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1756025	TGF32R175-CP6025	1.75	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1756025	TGF32L175-CP6025	1.75	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1806025	TGF32R180-CP6025	1.80	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1806025	TGF32L180-CP6025	1.80	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1856025	TGF32R185-CP6025	1.85	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1856025	TGF32L185-CP6025	1.85	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R1956025	TGF32R195-CP6025	1.95	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L1956025	TGF32L195-CP6025	1.95	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R2006025	TGF32R200-CP6025	2.00	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L2006025	TGF32L200-CP6025	2.00	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R2506025	TGF32R250-CP6025	2.50	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L2506025	TGF32L250-CP6025	2.50	2.5	0.1	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○

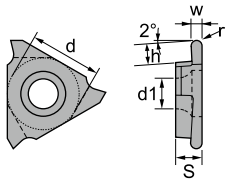
※ To choose CP10(uncoating) for N material machining.

KTGF Shallow Grooving Tools (Vertical , Depth < 2.5mm) KTGF 淺切槽刀 (立式 , 切深 < 2.5mm)

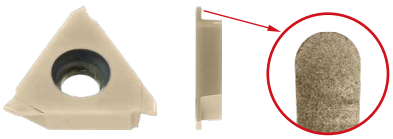
Insert Designation 刀片型號



Right hand



Left hand

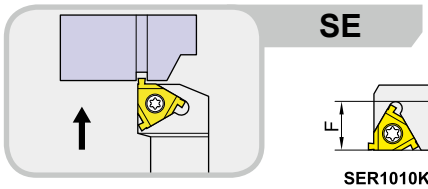


Order No. 訂購編碼	Designation	Dimensions (mm)						Max Depth of Cut		Working Material					
		w	h	r	S	d	d1	O.D.	I.D.	P	M	K	N	S	H
ITGF32R025R6025	TGF32R025R-CP6025	0.50	1.4	0.25	3.18	9.525	4.4	1.2	0.8	●	●	●		○	○
ITGF32L025R6025	TGF32L025R-CP6025	0.50	1.4	0.25	3.18	9.525	4.4	1.2	0.8	●	●	●		○	○
ITGF32R037R6025	TGF32R037R-CP6025	0.75	2.5	0.375	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L037R6025	TGF32L037R-CP6025	0.75	2.5	0.375	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R050R6025	TGF32R050R-CP6025	1.00	2.5	0.5	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L050R6025	TGF32L050R-CP6025	1.00	2.5	0.5	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R062R6025	TGF32R062R-CP6025	1.25	2.5	0.625	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L062R6025	TGF32L062R-CP6025	1.25	2.5	0.625	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32R075R6025	TGF32R075R-CP6025	1.50	2.5	0.75	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○
ITGF32L075R6025	TGF32L075R-CP6025	1.50	2.5	0.75	3.18	9.525	4.4	2.0	1.5	●	●	●		○	○

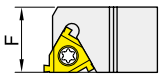
※ To choose CP10(uncoating) for N material machining.

TGL Shallow Grooving Tools (Laydown, Depth < 2.5mm) TGL 淺切槽刀 (臥式 , 切深 < 2.5mm)

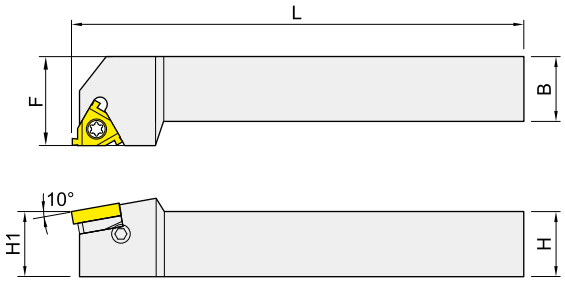
Tool Holder Specifications 刀桿規格



SER1010K16
SER1212K16



SER1216K16
SER1616K16H



Right-hand shown

Insert Brand 建議刀片 : Winstar

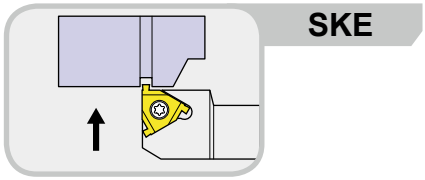
Order No. 訂購編碼	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISE$^{R}_{L}$1216K16	12	16	125	16	TGL16ER or TGL16EL	①
ISE$^{R}_{L}$1010K16H	10	10	125	10		
ISE$^{R}_{L}$1212K16H	12	12	125	12		
ISE$^{R}_{L}$1616K16H	16	16	125	16		
ISE$^{R}_{L}$1616K16	16	16	125	20		②
ISE$^{R}_{L}$2020K16	20	20	125	25		
ISE$^{R}_{L}$2525M16	25	25	150	32		
ISE$^{R}_{L}$3232P16	32	32	170	40		

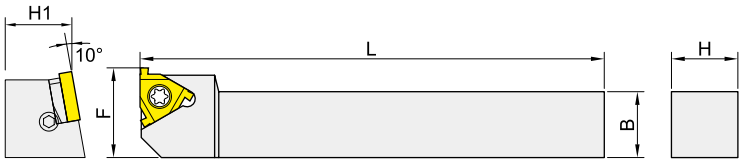
Spare parts	Screw	Shim	Screw	Wrench	Wrench
①	IMS3509A	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15

※ SER right hand tools shim is IGXE16, SEL left hand tools shim is IGXN16.

TGL Shallow Grooving Tools (Laydown, Depth < 2.5mm) TGL 淺切槽刀 (臥式 , 切深 < 2.5mm)

Tool Holder Specifications 刀桿規格





Right-hand shown

Insert Brand 建議刀片 : Winstar

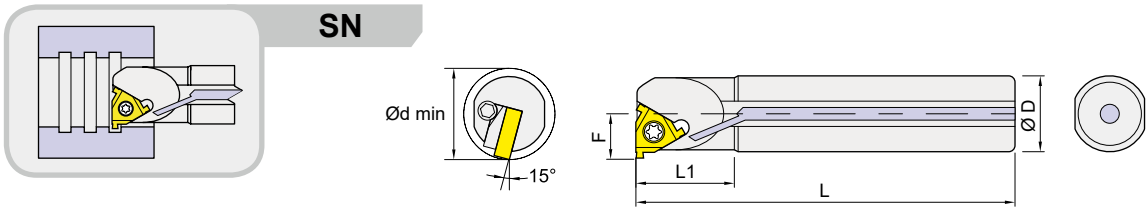
Order No. 訂購編碼	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISKE$^{R}/_{L}$1212K16	12	12	125	18	TGL16ER or TGL16EL	①
ISKE$^{R}/_{L}$1616K16	16	16	125	22		②
ISKE$^{R}/_{L}$2020K16	20	20	125	27		
ISKE$^{R}/_{L}$2525M16	25	25	150	34		

Spare parts	Screw	Shim	Screw	Wrench	Wrench
①	IMS3509A	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15

※ SKER right hand tools shim is IGXE16, SKEL left hand tools shim is IGXN16.

SE Shallow Grooving Tools (Laydown, Depth < 2.5mm) SE 淺切槽刀 (臥式 , 切深 < 2.5mm)

Tool Holder Specifications 刀桿規格



Right-hand shown

Insert Brand 建議刀片 : Winstar

Order No. 訂購編碼	Dimensions (mm)					Coolant	Insert	Spare parts
	D	L	L1	F	d min			
ISN$^{R}_{L}$0010K11S10	10	125	22	6.5	13		TGL11IR or TGL11IL	①
ISN$^{R}_{L}$0012M11S12	12	150	26	8	16			
ISN$^{R}_{L}$A0010K11S10	10	125	22	6.5	13	●		
ISN$^{R}_{L}$A0012M11S12	12	150	26	8	16	●		
ISN$^{R}_{L}$0016Q16	16	180	36	10	19		TGL16IR or TGL16IL	②
ISN$^{R}_{L}$0020R16	20	200	40	12	24			③
ISN$^{R}_{L}$0025R16	25	200	45	14.5	29			
ISN$^{R}_{L}$0032S16	32	250	45	18.5	36			
ISN$^{R}_{L}$A0016Q16	16	180	36	10	19	●		②
ISN$^{R}_{L}$A0020R16	20	200	40	12	24	●		③
ISN$^{R}_{L}$A0025R16	25	200	45	14.5	29	●		
ISN$^{R}_{L}$A0032S16	32	250	45	18.5	36	●		

Spare parts	Screw	Wrench	Shim	Screw	Wrench
①	IMS2507G	ITK08	-	-	-
②	IMS3509A	ITK15	-	-	-
③	IMS3512A	ITK15	IGXN16 or IGXE16	IHTM309	IPL25

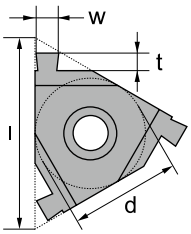
※ SNR right hand tools shim is IGXN16, SNL left hand tools shim is IGXE16.

Recommended Cutting Conditions 建議切削數據

Working Material	Vc (m/min)	fr (mm/rev)
Carbon Steel / Alloy Steel	50 ~ 200	0.02 ~ 0.10
Stainless Steel	50 ~ 200	0.02 ~ 0.10
Cast Iron	50 ~ 200	0.02 ~ 0.10
Aluminum Alloy	200 ~ 300	0.05 ~ 0.15
High Temperature Alloy	80 ~ 120	0.03 ~ 0.07
Hardened Steel	80 ~ 120	0.03 ~ 0.07

SKE Shallow Grooving Tools (Laydown, Depth < 2.5mm) SKE 淺切槽刀 (臥式 , 切深 < 2.5mm)

Insert Designation 刀片型號



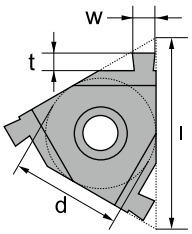
※Same insert can be used for external right hand and internal left hand.
相同的刀片可以使用在外徑右手與內徑左手加工

Order No. 訂購編碼	Designation	Dimensions (mm)				Working Material					
		d	l	w ±0.02	t	P	M	K	N	S	H
ITGL11ER0506025	TGL11ER050-CP6025	1/4	11	0.50	1.4	●	●	●		○	○
ITGL11IL0506025	TGL11IL050-CP6025	1/4	11	0.50	1.4	●	●	●		○	○
ITGL11ER0606025	TGL11ER060-CP6025	1/4	11	0.60	1.4	●	●	●		○	○
ITGL11IL0606025	TGL11IL060-CP6025	1/4	11	0.60	1.4	●	●	●		○	○
ITGL11ER0706025	TGL11ER070-CP6025	1/4	11	0.70	1.4	●	●	●		○	○
ITGL11IL0706025	TGL11IL070-CP6025	1/4	11	0.70	1.4	●	●	●		○	○
ITGL11ER0806025	TGL11ER080-CP6025	1/4	11	0.80	1.4	●	●	●		○	○
ITGL11IL0806025	TGL11IL080-CP6025	1/4	11	0.80	1.4	●	●	●		○	○
ITGL11ER1006025	TGL11ER100-CP6025	1/4	11	1.00	1.4	●	●	●		○	○
ITGL11IL1006025	TGL11IL100-CP6025	1/4	11	1.00	1.4	●	●	●		○	○
ITGL11ER1206025	TGL11ER120-CP6025	1/4	11	1.20	1.4	●	●	●		○	○
ITGL11IL1206025	TGL11IL120-CP6025	1/4	11	1.20	1.4	●	●	●		○	○
ITGL16ER0506025	TGL16ER050-CP6025	3/8	16	0.50	1.4	●	●	●		○	○
ITGL16IL0506025	TGL16IL050-CP6025	3/8	16	0.50	1.4	●	●	●		○	○
ITGL16ER1006025	TGL16ER100-CP6025	3/8	16	1.00	1.4	●	●	●		○	○
ITGL16IL1006025	TGL16IL100-CP6025	3/8	16	1.00	1.4	●	●	●		○	○
ITGL16ER1206025	TGL16ER120-CP6025	3/8	16	1.20	1.6	●	●	●		○	○
ITGL16IL1206025	TGL16IL120-CP6025	3/8	16	1.20	1.6	●	●	●		○	○
ITGL16ER1406025	TGL16ER140-CP6025	3/8	16	1.40	1.8	●	●	●		○	○
ITGL16IL1406025	TGL16IL140-CP6025	3/8	16	1.40	1.8	●	●	●		○	○
ITGL16ER1706025	TGL16ER170-CP6025	3/8	16	1.70	2.0	●	●	●		○	○
ITGL16IL1706025	TGL16IL170-CP6025	3/8	16	1.70	2.0	●	●	●		○	○
ITGL16ER1956025	TGL16ER195-CP6025	3/8	16	1.95	2.0	●	●	●		○	○
ITGL16IL1956025	TGL16IL195-CP6025	3/8	16	1.95	2.0	●	●	●		○	○
ITGL16ER2256025	TGL16ER225-CP6025	3/8	16	2.25	2.25	●	●	●		○	○
ITGL16IL2256025	TGL16IL225-CP6025	3/8	16	2.25	2.25	●	●	●		○	○

※ To choose CP10(uncoating) for N material machining.

SN Shallow Grooving Tools (Laydown, Depth < 2.5mm) SN 淺切槽刀 (臥式 , 切深 < 2.5mm)

Insert Designation 刀片型號



※Same insert can be used for internal right hand and external left hand.
相同的刀片可以使用在內徑右手與外徑左手加工

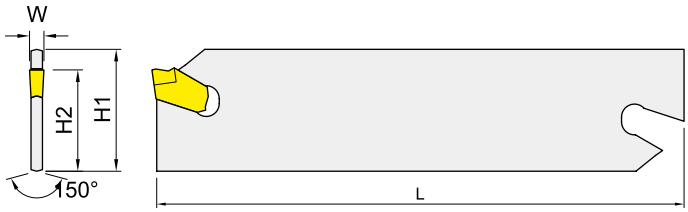
Order No. 訂購編碼	Designation	Dimensions (mm)				Working Material					
		d	l	w ±0.02	t	P	M	K	N	S	H
ITGL11IR0506025	TGL11IR050-CP6025	1/4	11	0.50	1.4	●	●	●		○	○
ITGL11EL0506025	TGL11EL050-CP6025	1/4	11	0.50	1.4	●	●	●		○	○
ITGL11IR0606025	TGL11IR060-CP6025	1/4	11	0.60	1.4	●	●	●		○	○
ITGL11EL0606025	TGL11EL060-CP6025	1/4	11	0.60	1.4	●	●	●		○	○
ITGL11IR0706025	TGL11IR070-CP6025	1/4	11	0.70	1.4	●	●	●		○	○
ITGL11EL0706025	TGL11EL070-CP6025	1/4	11	0.70	1.4	●	●	●		○	○
ITGL11IR0806025	TGL11IR080-CP6025	1/4	11	0.80	1.4	●	●	●		○	○
ITGL11EL0806025	TGL11EL080-CP6025	1/4	11	0.80	1.4	●	●	●		○	○
ITGL11IR1006025	TGL11IR100-CP6025	1/4	11	1.00	1.4	●	●	●		○	○
ITGL11EL1006025	TGL11EL100-CP6025	1/4	11	1.00	1.4	●	●	●		○	○
ITGL11IR1206025	TGL11IR120-CP6025	1/4	11	1.20	1.4	●	●	●		○	○
ITGL11EL1206025	TGL11EL120-CP6025	1/4	11	1.20	1.4	●	●	●		○	○
ITGL16IR0506025	TGL16IR050-CP6025	3/8	16	0.50	1.4	●	●	●		○	○
ITGL16EL0506025	TGL16EL050-CP6025	3/8	16	0.50	1.4	●	●	●		○	○
ITGL16IR1006025	TGL16IR100-CP6025	3/8	16	1.00	1.4	●	●	●		○	○
ITGL16EL1006025	TGL16EL100-CP6025	3/8	16	1.00	1.4	●	●	●		○	○
ITGL16IR1206025	TGL16IR120-CP6025	3/8	16	1.20	1.6	●	●	●		○	○
ITGL16EL1206025	TGL16EL120-CP6025	3/8	16	1.20	1.6	●	●	●		○	○
ITGL16IR1406025	TGL16IR140-CP6025	3/8	16	1.40	1.8	●	●	●		○	○
ITGL16EL1406025	TGL16EL140-CP6025	3/8	16	1.40	1.8	●	●	●		○	○
ITGL16IR1706025	TGL16IR170-CP6025	3/8	16	1.70	2.0	●	●	●		○	○
ITGL16EL1706025	TGL16EL170-CP6025	3/8	16	1.70	2.0	●	●	●		○	○
ITGL16IR1956025	TGL16IR195-CP6025	3/8	16	1.95	2.0	●	●	●		○	○
ITGL16EL1956025	TGL16EL195-CP6025	3/8	16	1.95	2.0	●	●	●		○	○
ITGL16IR2256025	TGL16IR225-CP6025	3/8	16	2.25	2.25	●	●	●		○	○
ITGL16EL2256025	TGL16EL225-CP6025	3/8	16	2.25	2.25	●	●	●		○	○

※ To choose CP10(uncoating) for N material machining.

SGIH Parting Tools (Depth < 40mm) SGIH 切斷刀 (切深 < 40mm)

Tool Holder Specifications 刀桿規格

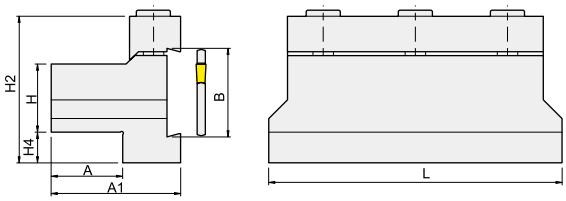
SGIH



Insert Brand 建議刀片 : Winstar, Iscar, ...

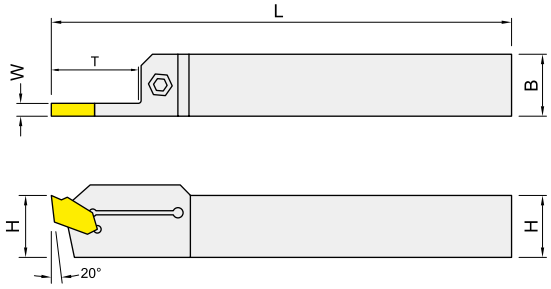
Order No. 訂購編碼	Dimensions (mm)				Insert	Tool Block	Wrench
	H1	H2	L	W			
ISGIH26-2	26	21.4	110	2.2	TGTN0220	ISGTBU..-26	IESG-1
ISGIH26-3	26	21.4	110	3.1	TGTN0310		
ISGIH26-4	26	21.4	110	4.1	TGTN0410		
ISGIH32-2	32	25	150	2.2	TGTN0220	ISGTBU..-32	
ISGIH32-3	32	25	150	3.1	TGTN0310		
ISGIH32-4	32	25	150	4.1	TGTN0410		

SGTBU



Order No. 訂購編碼	Dimensions (mm)							Screw	Wrench	BLADE
	H	B	A	A1	L	H2	H4			
ISGTBU20-26	20	26	21	38	86	43	9	IHTM630	IPL50	ISGIH26-3
ISGTBU25-26	25	26	23	40	86	43	4			
ISGTBU20-32	20	32	21	40	110	50	13			ISGIH32-3
ISGTBU25-32	25	32	23	42	110	50	8			

SGTHR

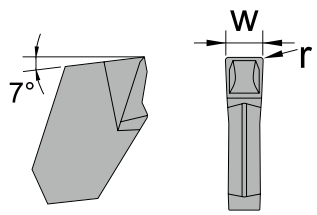


Order No. 訂購編碼	Dimensions (mm)					Insert	Screw	Wrench
	H	B	L	W	T			
ISGTHR16162	16	16	110	2	16	TGTN0220	IHTM521	IPL40
ISGTHR20202	20	20	125	2	18			
ISGTHR20203	20	20	125	3	20	TGTN0310	IHTM625	IPL50
ISGTHR25253	25	25	150	3	25			
ISGTHR25254	25	25	150	4	30	TGTN0410	IHTM625	IPL50

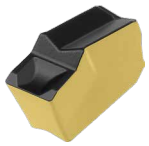
SGIH Parting Tools (Depth < 40mm) SGIH 切斷刀 (切深 < 40mm)

Insert Specifications 刀片規格

Insert	Dimensions (mm)	
	w	r
TGTN0220	2.2	0.2
TGTN0310	3.1	0.2
TGTN0410	4.1	0.25



Insert Designation 刀片型號

Inserts	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ITGTN022033TX	TGTN0220-CX33TX	●	●	●		●	●
	ITGTN022043TX	TGTN0220-CX43TX	●	●	●		○	
	ITGTN022047TA	TGTN0220-CX47TA	●	●	●			
	ITGTN031033TX	TGTN0310-CX33TX	●	●	●		●	●
	ITGTN031043TX	TGTN0310-CX43TX	●	●	●		○	
	ITGTN031047TA	TGTN0310-CX47TA	●	●	●			
	ITGTN041033TX	TGTN0410-CX33TX	●	●	●		●	●
	ITGTN041043TX	TGTN0410-CX43TX	●	●	●		○	
	ITGTN041047TA	TGTN0410-CX47TA	●	●	●			

＊ CX33TX for General cutting.
CX43TX for Interrupted cutting.
CX47TA for Heavy interrupted cutting.