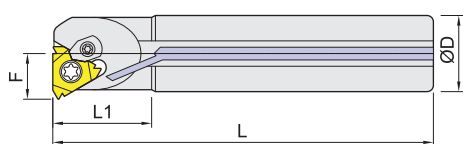
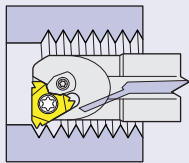


牙·刀·開·槽·刀

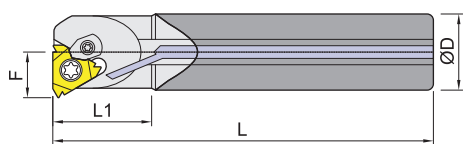
THREADING & GROOVING



SNR/L..CL



Coolant steel shank+clamp (right shown)
中心出水鋼柄+壓板 右向示意圖



Coolant carbide shank+clamp (right shown)
中心出水鎢鋼柄+壓板 右向示意圖

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

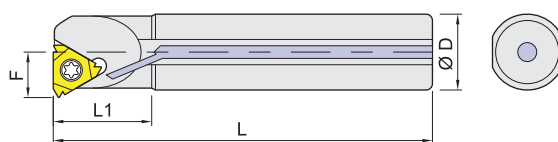
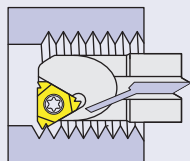
	Steel shank		Dimensions,mm					Insert		Spare parts	Weight Kg
	無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	螺紋加工 Threading	槽加工 Grooving		
NEW	SNR/L-0020R-16CL	SNR/L-A0020R-16CL	20	200	40	12	24	16NR/L	16NR..G	①	0.49
NEW	SNR/L-0025R-16CL	SNR/L-A0025R-16CL	25	200	45	14.5	29				0.77
NEW	SNR/L-0032S-16CL	SNR/L-A0032S-16CL	32	250	45	18.5	36				1.58
NEW	SNR/L-0040T-16CL	SNR/L-A0040T-16CL	40	300	60	22	44				2.96
NEW	SNR/L-0040V-16CL	SNR/L-A0040V-16CL	40	400	60	22	44				3.94
NEW	SNR/L-0020R-22CL	SNR/L-A0020R-22CL	20	200	40	14	28	22NR/L	--	②	0.49
NEW	SNR/L-0025R-22CL	SNR/L-A0025R-22CL	25	200	45	16.5	32			③	0.77
NEW	SNR/L-0032S-22CL	SNR/L-A0032S-22CL	32	250	45	20	40				1.58

	Carbide shank		Dimensions,mm					Insert		Spare parts	Weight Kg
	無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	螺紋加工 Threading	槽加工 Grooving		
NEW	SNR/L-C0020R-16CL	SNR/L-E0020R-16CL	20	200	40	12	24	16NR/L	16NR..G	①	0.91
NEW	SNR/L-C0025S-16CL	SNR/L-E0025S-16CL	25	250	45	14.5	29				1.65

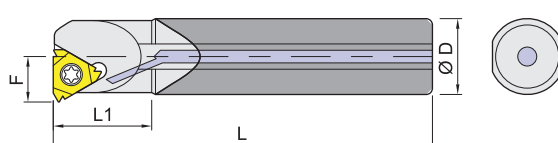
※裝插槽刀片時，加工深度及最小加工徑會因刀桿實際狀況而異(The application depth and minimum working diameter will be various according to situation of setting grooving insert.)

Insert	Spare parts	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
16NR/L	①	MS3512A	--	GXN/E16	HTM309	PL25	MC35-3V	ETF15
22NR/L	②	MS4511A	ETF20	--	--	--		
22NR/L	③	MS4516A	ETF20	GXN/E22	HTM412	PL30		

SNR/L



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖



Coolant carbide shank (right shown)
中心出水鎢鋼柄 右向示意圖

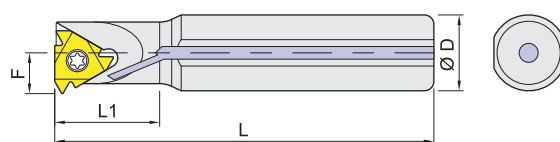
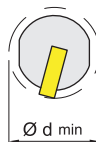
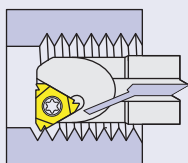
Steel shank	Item code	Dimensions,mm					Insert		Spare parts	Weight Kg
無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	螺紋加工 Threading	槽加工 Grooving		
SNR/L-0008K-08-S08	SNR/L-A0008K-08-S08	08	125	20	5.5	11	08NR/L	--	②	0.05
SNR/L-0010K-11-S10	SNR/L-A0010K-11-S10	10	125	22	6.5	13	11NR/L	11NR..G	③	0.08
SNR/L-0012M-11-S12	SNR/L-A0012M-11-S12	12	150	26	8	16	16NR/L	16NR..G		0.13
SNR/L-0016Q-16	SNR/L-A0016Q-16	16	180	36	10	19			④	0.28
SNR/L-0020R-16	SNR/L-A0020R-16	20	200	40	12	24			⑤	0.49
SNR/L-0025R-16	SNR/L-A0025R-16	25	200	45	14.5	29				0.77
SNR/L-0032S-16	SNR/L-A0032S-16	32	250	45	18.5	36			1.58	
SNR/L-0032T-16		32	300	45	18.5	36			1.89	
SNR-0040T-16		40	300	60	22	44			2.96	
SNR-0040V-16	SNR-A0040V-16	40	400	60	22	44			3.95	
SNR-0050V-16	SNR-A0050V-16	50	400	60	27	54			6.17	
SNR-0060V-16	SNR-A0060V-16	60	400	60	32	64			8.88	
SNR-0080V-16		80	400	80	42	82			15.78	
SNR/L-0020R-22	SNR/L-A0020R-22	20	200	40	14	28	22NR/L	--	⑥	0.49
SNR/L-0025R-22	SNR/L-A0025R-22	25	200	45	16.5	32	22NR/L	--	⑦	0.77
SNR/L-0025S-22	SNR/L-A0025S-22	25	250	45	16.5	32			0.96	
SNR/L-0032S-22	SNR/L-A0032S-22	32	250	45	20	40			1.58	
SNR/L-0040T-22	SNR/L-A0040T-22	40	300	60	24	46			2.82	

Carbide shank		Item code	Dimensions,mm					Insert		Spare parts	Weight Kg		
無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	螺紋加工 Threading	槽加工 Grooving					
SNR/L-C0006J-06	--	6	110	15	4.1	8	06NR/L	--	①	0.05			
SNR-C0007J-08	--	7	110	18	4.5	9	08NR	--		②	0.06		
SNR-C0008K-08		8	125	20	5.5	11							0.09
SNR/L-C0010K-11	SNR/L-E0010K-11	10	125	22	6.5	13	11NR/L	11NR..G	③	0.14			
SNR-C0012M-11		12	150	26	8	16						0.24	
SNR-C0016R-16	SNR/L-E0016R-16	16	200	36	10	19	16NR	16NR..G	④	0.58			
SNR-C0020R-16		20	200	40	12	24						⑤	0.91
SNR-C0025S-16		25	250	45	14.5	29							1.77

※裝插槽刀片時，加工深度及最小加工徑會因刀桿實際狀況而異(The application depth and minimum working diameter will be various according to situation of setting grooving insert.)

※鎢鋼柄Ø7以下刀桿僅一面側固(Carbide shank below Ø7 is one welden flat only)

SNR/L



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

Steel shank	Item code	Dimensions,mm					Insert		Spare parts	Weight Kg
無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	螺紋加工 Threading	槽加工 Grooving		
SNR/L-0005H-06	SNR/L-A0005H-06	12	100	12	3.6	7	06NR/L	--	①	0.09
SNR/L-0006H-06	SNR/L-A0006H-06	12	100	15	4.1	8				0.09
SNR/L-0007K-08	SNR/L-A0007K-08	16	125	18	4.5	9	08NR/L	--	②	0.20
SNR/L-0008K-08	SNR/L-A0008K-08	16	125	21	5.5	11				0.20
SNR/L-0010K-11	SNR/L-A0010K-11	16	125	25	6.5	13	11NR/L	11NR..G	③	0.20
SNR/L-0010K-11-L18		16	125	18	6.5	13				0.20
SNR/L-0013M-11	SNR/L-A0013M-11	16	150	32	8	16				0.24
SNR/L-0013M-11-L18		16	150	18	8	16				0.24
SNR/L-0013M-16	SNR/L-A0013M-16	16	150	32	8.5	17	16NR/L	16NR..G	④	0.24
SNR/L-0016Q-16-S20	SNR/L-A0016Q-16-S20	20	180	36	10	19				0.44

※裝插槽刀片時，加工深度及最小加工徑會因刀桿實際狀況而異(The application depth and minimum working diameter will be various according to situation of setting grooving insert.)

Insert	Spare parts	Screw	Wrench	Shim	Screw	Wrench
06NR/L	①	MS2004A	ETF06	--	--	--
08NR/L	②	MS2206F	ETF07	--	--	--
11NR/L	③	MS2507G	ETF08	--	--	--
16NR/L	④	MS3509A	ETF15	--	--	--
16NR/L	⑤	MS3512A	ETF15	GXN/E16	HTM309	PL25
22NR/L	⑥	MS4511A	ETF20	--	--	--
22NR/L	⑦	MS4516A	ETF20	GXN/E22	HTM412	PL30

※牙刀片請參考 90-91 頁 See page 90-91 for threading insert.

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

SER/L..CL

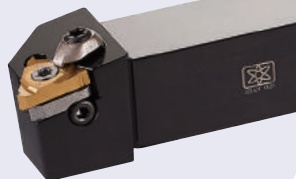
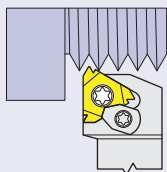
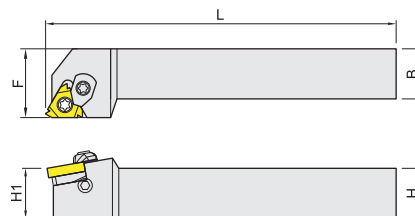
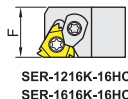
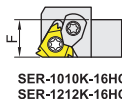


FIG-1



SER/L

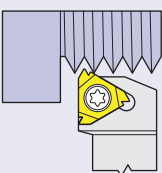
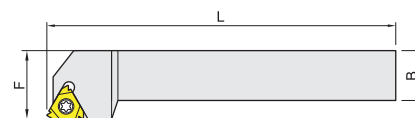
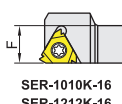


FIG-2



Right-hand shown

FIG-1 Item code 雙重鎖固SCREW+CLAMP	Spare parts	FIG-2 Item code 螺絲鎖固SCREW	Spare parts	Dimensions,mm				Insert		Weight Kg
				H(H1)	B	L	F	螺紋加工 Threading	槽加工 Grooving	
SER/L-1616K-16CL	④	SER/L-1616K-16	③	16	16	125	20	16ER/L	16ER..G	0.29
SER/L-2020K-16CL		SER/L-2020K-16		20	20	125	25			0.45
SER/L-2525M-16CL		SER/L-2525M-16		25	25	150	32			0.84
SER/L-3232P-16CL		SER/L-3232P-16		32	32	170	40			1.51
		SER/L-2020K-22	⑤	20	20	125	25	22ER/L	--	0.45
		SER/L-2525M-22		25	25	150	32			0.84
		SER/L-3232P-22		32	32	170	40			1.51
		SER/L-2525M-27	⑥	25	25	150	32	27ER/L	--	0.84
		SER/L-3232P-27		32	32	170	40			1.51

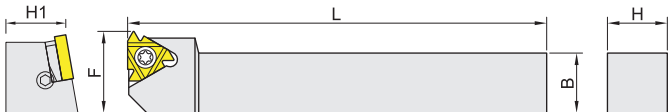
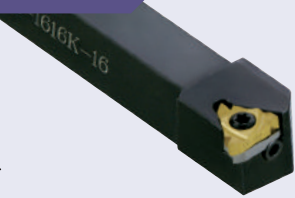
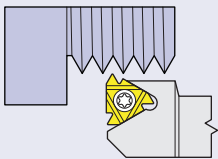
FIG-1 Item code 雙重鎖固SCREW+CLAMP	Spare parts	FIG-2 Item code 螺絲鎖固SCREW	Spare parts	Dimensions,mm				Insert		Weight Kg
				H(H1)	B	L	F	螺紋加工 Threading	槽加工 Grooving	
SER/L-1010K-16HC	②		①	10	10	125	10	16ER/L	16ER..G	0.11
SER/L-1212K-16HC				12	12	125	12			0.17
SER/L-1216K-16HC		SER/L-1216K-16		12	16	125	16			0.23
		SER/L-1010K-16H		10	10	125	10			0.11
		SER/L-1212K-16H		12	12	125	12			0.15
SER/L-1616K-16HC		SER/L-1616K-16H		16	16	125	16			0.26

※走心式刀 SWISS-TYPE

※裝插槽刀片時，加工深度及最小加工徑會因刀桿實際狀況而異(The application depth and minimum working diameter will be various according to situation of setting grooving insert.)

Insert	Spare parts	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
16ER/L	①	MS3509A	ETF15	--	--	--	--	--
16ER/L	②	MS3509A	--	--	--	--	MC35-3V	ETF15
16ER/L	③	MS3512A	ETF15	GXE/N 16	HTM309	PL25	--	--
16ER/L	④	MS3512A	--	GXE/N 16	HTM309	PL25	MC35-3V	ETF15
22ER/L	⑤	MS4516A	ETF20	GXE/N 22	HTM412	PL30	--	--
27ER/L	⑥	MS5022E	ETL25	GXE/N 27	HTM512HC	PL40	--	--

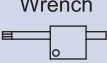
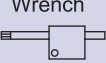
SKER/L



Right-hand shown

Item code	Dimensions,mm				Insert		Spare parts	Weight Kg
	H (H1)	B	L	F	螺紋加工 Threading	槽加工 Grooving		
SKER/L-1212K-16	12	12	125	18	16ER/L	16ER..G	①	0.17
SKER/L-1616K-16	16	16	125	22			②	0.29
SKER/L-2020K-16	20	20	125	27				0.45
SKER/L-2525M-16	25	25	150	34				0.84

※裝插槽刀片時，加工深度及最小加工徑會因刀桿實際狀況而異(The application depth and minimum working diameter will be various according to situation of setting grooving insert.)

Insert	Spare parts	 Screw	 Wrench	 Shim	 Screw	 Wrench	 Clamp	 Wrench
16ER/L	①	MS3509A	ETF15	--	--	--	--	--
16ER/L	②	MS3512A	ETF15	GXE/N 16	HTM309	PL25	--	--

內徑車刀
BORING BARS

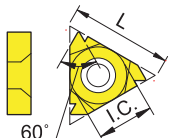
外徑車刀
TOOLHOLDERS

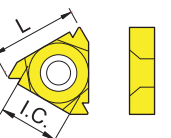
牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

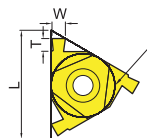
外牙右向 EX-RH 內牙左向 IN-LH 	Steel 鋼	P	●	●	●	●				
	Stainless steel 不銹鋼	M	●	●	●	●				
	Cast iron 鑄鐵	K			●	●				
	Non-ferrous metal 非鐵金屬	N						●	●	

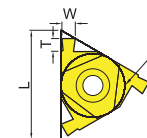
外牙左向 EX-LH 內牙右向 IN-RH 	Steel 鋼	P	●	●	●	●				
	Stainless steel 不銹鋼	M	●	●	●	●				
	Cast iron 鑄鐵	K			●	●				
	Non-ferrous metal 非鐵金屬	N						●	●	

Description	公制規格 Metric	Pitch (mm)	英制規格 Inch	Pitch (TPI)	GRADE 材質					
					Coated 塗層		Uncoated 無塗層			
					BMA	GC10F	K15			
					R	L	R	L	R	L
06IR/L	A60	0.5~1.25	A60	48-20						
			32 UN	32						
			28 UN	28						
			24 UN	24						
			20 UN	20						
			18 UN	18						
08IR/L	A60	0.5~1.5	A60	48-16						
08NR/L	0.5 ISO	0.50	32 UN	32						
	0.75 ISO	0.75	28 UN	28						
	1.0 ISO	1.00	24 UN	24						
	1.25 ISO	1.25	20 UN	20						
	1.5 ISO	1.50	18 UN	18						
	1.75 ISO	1.75	16 UN	16						
11IR/L 11NR/L 11ER/L	A60	0.5~1.5	A60	48-16						
	0.35 ISO	0.35	72 UN	72						
	0.4 ISO	0.40	64 UN	64						
	0.45 ISO	0.45	56 UN	56						
	0.5 ISO	0.50	48 UN	48						
	0.6 ISO	0.60	44 UN	44						
	0.7 ISO	0.70	40 UN	40						
	0.75 ISO	0.75	36 UN	36						
	0.8 ISO	0.80	32 UN	32						
	1.0 ISO	1.00	28 UN	28						
	1.25 ISO	1.25	27 UN	27						
	1.5 ISO	1.50	24 UN	24						
	1.75 ISO	1.75	20 UN	20						
	2.0 ISO	2.00	18 UN	18						
			16 UN	16						
			14 UN	14						
			13 UN	13						
			12 UN	12						
			11 UN	11						

Description	公制規格 Metric	Pitch (mm)	英制規格 Inch	Pitch (TPI)	GRADE 材質					
					Coated 塗層		Uncoated 無塗層			
					BMA	GC10F	K15			
					R	L	R	L	R	L
16IR/L	AG60	0.5~3.0	AG60	48-8						
16NR/L	A60	0.5~1.5	A60	48-16						
16ER/L	G60	1.75~3.0	G60	14-8						
	0.35 ISO	0.35	72 UN	72						
	0.4 ISO	0.40	64 UN	64						
	0.45 ISO	0.45	56 UN	56						
	0.5 ISO	0.50	48 UN	48						
	0.6 ISO	0.60	44 UN	44						
	0.7 ISO	0.70	40 UN	40						
	0.75 ISO	0.75	36 UN	36						
	0.8 ISO	0.80	32 UN	32						
	1.0 ISO	1.00	28 UN	28						
	1.25 ISO	1.25	27 UN	27						
	1.5 ISO	1.50	24 UN	24						
	1.75 ISO	1.75	20 UN	20						
	2.0 ISO	2.00	18 UN	18						
	2.5 ISO	2.50	16 UN	16						
	3.0 ISO	3.00	14 UN	14						
			13 UN	13						
			12 UN	12						
			11.5 UN	11.5						
			11 UN	11						
			10 UN	10						
			9 UN	9						
			8 UN	8						
22IR/L	N60	3.5~5.0	N60	7-5						
22NR/L	3.5 ISO	3.50	7 UN	7						
22ER/L	4.0 ISO	4.00	6 UN	6						
	4.5 ISO	4.50	5 UN	5						
	5.0 ISO	5.00								
	5.5 ISO	5.50								
	6.0 ISO	6.00								
27IR/L	Q60	5.5~6.0	Q60	4.5-4						
27NR/L	5.5 ISO	5.50	4.5 UN	4.5						
27ER/L	6.0 ISO	6.00	4 UN	4						

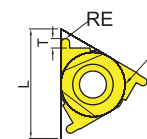
L(mm)	6	8	11	16	22	27
I.C.(in)	3.97	4.76	6.35	9.525	12.7	15.875

外槽右向 EX-RH 	Steel 鋼	P	●				
	Stainless steel 不銹鋼	M	●				
	Cast iron 鑄鐵	K	●				
	Non-ferrous metal 非鐵金屬	N					

外槽右向 EX-RH 	Steel 鋼	P	●				
	Stainless steel 不銹鋼	M	●				
	Cast iron 鑄鐵	K	●				
	Non-ferrous metal 非鐵金屬	N					

Description	公制規格 Metric	W (mm)	T (mm)	GRADE 材質			
				Coated 塗層		Uncoated 無塗層	
				GC35		GC35	
11NR	0.5G	0.5	1.4				
	0.6G	0.6	1.4				
	0.7G	0.7	1.4				
	0.8G	0.8	1.4				
	1.0G	1.0	1.4				
	1.2G	1.2	1.4				
	1.5G	1.5	1.4				

Description	公制規格 Metric	W (mm)	T (mm)	GRADE 材質			
				Coated 塗層		Uncoated 無塗層	
				GC35		GC35	
16NR	0.5G	0.5	1.4				
	1.0G	1.0	1.4				
	1.2G	1.2	1.6				
	1.4G	1.4	1.8				
	1.7G	1.7	2.0				
	1.95G	1.95	2.0				
	2.25G	2.25	2.25				

外槽右向 EX-RH 	Steel 鋼	P	●				
	Stainless steel 不銹鋼	M	●				
	Cast iron 鑄鐵	K	●				
	Non-ferrous metal 非鐵金屬	N					

L(mm)	11	16
I.C.(in)	6.35	9.525

Description	公制規格 Metric	Re (mm)	T (mm)	GRADE 材質			
				Coated 塗層		Uncoated 無塗層	
				GC35		GC35	
16NR	R0.5	0.5	1.4				
	R0.6	0.6	1.6				
	R0.9	0.9	2.0				
	R1.0	1.0	2.0				
	R1.1	1.1	2.15				
	R1.2	1.2	2.25				

16	N	R	1.5	ISO	GC10F
1	2	3	4	5	6

1	刀片邊長 Edge Length(mm)
6	IC=3.97
8	IC=4.76
11	IC=6.35
16	IC=9.25
22	IC=12.70
27	IC=15.87

2	車刀類型 Type of insert
E	External 外徑車削
N	Internal 內徑車削
3	車刀方向 Hand of Tool
R	Right Hand 右手車削
L	Left Hand 左手車削

4

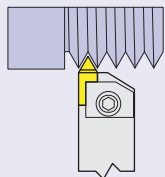
牙距
Pitch

通用螺紋規格 Partial Profile		
編號Code	mm	T.P.I
A	0.5-1.5	48-16
AG	0.5-3.0	48-8
G	0.75-3.0	14-8
N	3.5-5.0	7-5

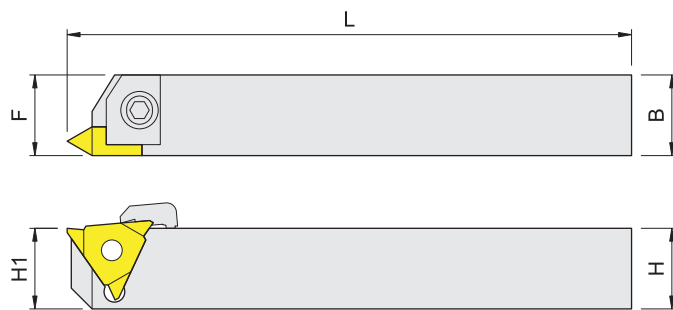
專用螺紋規格 Full Profile		
	Pitch	
mm	0.5-3.5	
T.P.I	24-8	

5	螺紋規範 Thread Standard
55	通用螺紋規格55° Partial Profile55°
60	通用螺紋規格60° Partial Profile60°
ISO	公制60° Metric60°
UN	美規60° UN60°
G	開槽
R	圓槽
TR(TRAPEZ)	TR 30° 梯形螺紋
ACME	美規29° 梯形螺紋 (ACME)
W	惠氏55° 平行管螺紋Whitworth, (PF, PS)
BSPT	英規55° 錐度管螺紋 (PT)
NPT	美規60° 錐度管螺紋 (NPT)

WTH



功能：螺紋 Threading

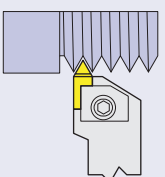


Right-hand shown

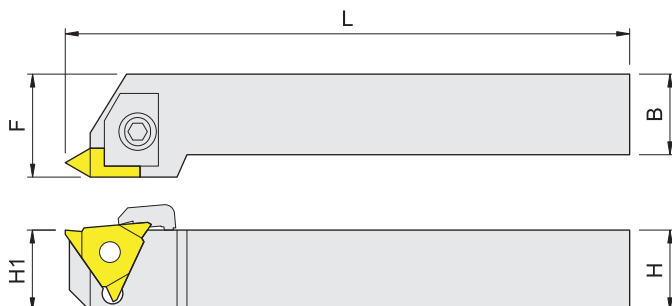
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
WTHR/L-2020K4	20	20	125	20	MTTR/L 43..	①	0.39
WTHR/L-2525M4	25	25	150	25			0.74
WTHR-3232P4	32	32	170	32			1.37

Insert	Spare parts	Clamp	Spring	Screw	Wrench
MTTR/L 43..	①	MTK1R/L	MES3	HTR623	PL40

WT1



功能：螺紋 Threading

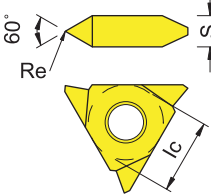
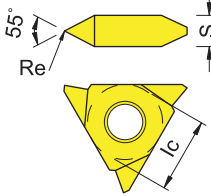


Right-hand shown

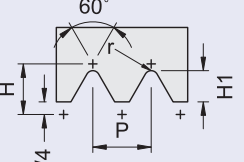
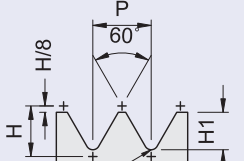
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
WT1R/L-1616K4	16	16	125	20	MTTR/L 43..	①	0.29
WT1R/L-2020K4	20	20	125	25			0.45
WT1R/L-2525M4	25	25	150	32			0.84

Insert	Spare parts	Clamp	Spring	Screw	Wrench
MTTR/L 43..	①	MTK1R/L	MES3	HTR623	PL40

被切削材 Workpiece material	Steel 鋼	P	●		●
	Stainless steel 不銹鋼	M	●		●
	Cast iron 鑄鐵	K	●	●	●
	Non-ferrous metal 非鐵金屬	N		●	

Insert Shape	Description	GRADE 材質			牙距mm(牙數) PITCH	Dimensions,mm		
		Coated 塗層	Uncoated 無塗層	Cermet 金屬陶瓷		Re	lc	S
		GT25	NM936	NY140				
 Right-hand	MTTR436000				~0.8	0	12.7	4.76
	MTTR436001		●		1.0~1.75	0.1	12.7	4.76
	MTTL436001		●	●	1.0~1.75	0.1	12.7	4.76
	MTTR436002	●	●	●	2.0~2.5	0.2	12.7	4.76
	MTTL436002			●	2.0~2.5	0.2	12.7	4.76
	MTTR436003				3.0~3.5	0.3	12.7	4.76
	MTTL436003				3.0~3.5	0.3	12.7	4.76
	MTTR436004	●			4.0~4.5	0.4	12.7	4.76
 Right-hand	MTTR435501				(28~10)	0.1	12.7	4.76
	MTTR435502				(16~8)	0.2	12.7	4.76
	MTTR435503				(11~8)	0.3	12.7	4.76

外徑牙刀切削深度及切削次數 Standard Cutting Depth

	p	0.75	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5
	H1	0.46	0.77	0.92	1.07	1.23	1.53	1.84	2.15	2.45	2.76
	r	0.11	0.18	0.22	0.25	0.29	0.36	0.43	0.5	0.58	0.65
 陰螺紋 Female Thread  陽螺紋 Male Thread	1	0.18	0.2	0.25	0.25	0.25	0.3	0.3	0.35	0.35	0.4
	2	0.13	0.18	0.2	0.2	0.25	0.25	0.25	0.3	0.3	0.35
	3	0.1	0.12	0.15	0.2	0.2	0.2	0.25	0.25	0.25	0.3
	4	0.05	0.12	0.15	0.15	0.15	0.2	0.2	0.2	0.25	0.25
	5		0.1	0.1	0.12	0.15	0.15	0.2	0.2	0.25	0.25
	6		0.05	0.07	0.1	0.1	0.1	0.15	0.2	0.2	0.2
	7				0.05	0.08	0.1	0.15	0.15	0.2	0.2
	8					0.05	0.1	0.1	0.15	0.15	0.15
	9						0.08	0.1	0.1	0.15	0.15
	10						0.05	0.09	0.1	0.1	0.15
	11							0.05	0.1	0.1	0.1
	12								0.05	0.1	0.1
	13									0.05	0.1
	14										0.06

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

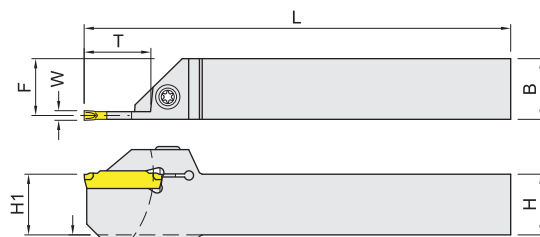
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

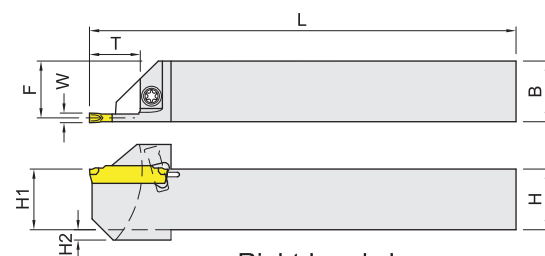
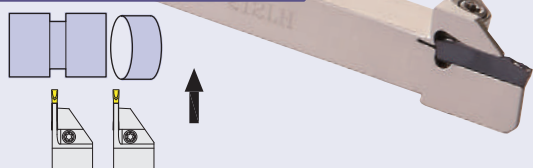
WMTC



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert			Weight Kg
	H(H1)	B	L	F	T	H2					
WMTCR/L-2020K-216L	20	20	125	19.15	16	--	2.0	WMTC020..			0.41
WMTCR-2525M-216L	25	25	150	24.15		--					0.78
WMTCR/L-2020K-220L	20	20	125	19.15	20	--	0.41				
WMTCR/L-2525M-220L	25	25	150	24.15		--	0.78				
WMTCR/L-1616K-322L	16	16	125	14.8	22	4	3.0	WMTC030..			0.25
WMTCR/L-2020K-322L	20	20	125	18.8		--					0.41
WMTCR/L-2525M-322L	25	25	150	23.8		--					0.78

WMTC..LH

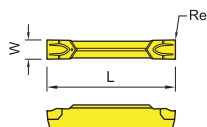


Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
WMTCR/L-1010K-1512LH	10	10	125	9.4	12	4	1.5	WMTC015..	MS4013F	ETL15	0.10
WMTCR/L-1212K-1512LH	12	12	125	11.4	12	2					0.17
WMTCR/L-1010K-212LH	10	10	125	9.15	12	4	2.0	WMTC020..			0.10
WMTCR/L-1212K-212LH	12	12	125	11.15	12	2					0.17
WMTCR/L-1616K-216LH	16	16	125	15.15	16	--	2.39	WMTC094..			0.25
WMTCR-1212K-2B12LH	12	12	125	11.1	12	2					0.17
WMTCR-1616K-2B16LH	16	16	125	15.1	16	--					0.25
WMTCR-1212K-316LH	12	12	125	14.8	16	--					3.0

※走心式刀 SWISS-TYPE

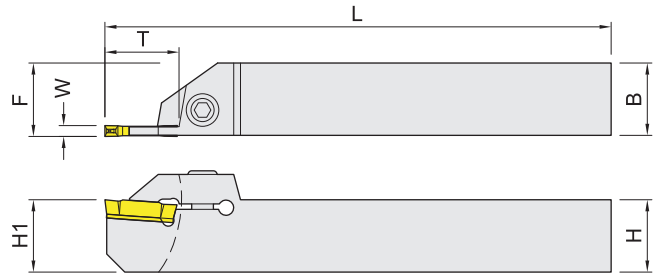
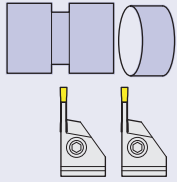
被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	
	Non-ferrous metal 非鐵金屬	N	

Insert Shape	Description	GRADE 材質	Dimensions,mm		
		Coated 塗層	W	Re	L
		WU25PT			
	WMTC015N00CMW08	●	1.50	0.08	19.30
	WMTC020N00CMW08	●	2.00	0.08	19.21
	WMTC094N00CMW13	●	2.39	0.13	22.32
	WMTC030N00CMW17	●	3.00	0.17	25.38

外徑切槽刀 EXTERNAL GROOVING TOOLHOLDERS



DGH



Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
DGHR-1616K-2-16L	16	16	125	16.3	16	2.0	DGM20CE	HTMT520	ETL25	0.27
DGHR-2020K-2-16L	20	20	125	20.3	16	2.0	DGM20CE	HTMT525	ETL25	0.42
DGHR/L-1616K-2-20L	16	16	125	16.3	20	2.0	DGM20CE	HTMT520	ETL25	0.27
DGHR/L-2020K-2-20L	20	20	125	20.3	20	2.0	DGM20CE	HTMT525	ETL25	0.42
DGHR/L-2020K-3-12L	20	20	125	20.3	12	3.0	DGM30CT	HTMT525	ETL25	0.42
DGHR/L-2525M-3-12L	25	25	150	25.3	12	3.0	DGM30CT	HTMT525	ETL25	0.78
DGHR/L-1616K-3-16L	16	16	125	16.3	16	3.0	DGM30CT	HTMT520	ETL25	0.27
DGHR/L-2020K-3-16L	20	20	125	20.3	16	3.0	DGM30CT	HTMT525	ETL25	0.42
DGHR/L-2525M-3-16L	25	25	150	25.3	16	3.0	DGM30CT	HTMT525	ETL25	0.78
DGHR/L-1616K-3-20L	16	16	125	16.3	20	3.0	DGM30CT	HTMT520	ETL25	0.27
DGHR/L-2020K-3-20L	20	20	125	20.3	20	3.0	DGM30CT	HTMT525	ETL25	0.42
DGHR/L-2525M-3-20L	25	25	150	25.3	20	3.0	DGM30CT	HTMT525	ETL25	0.78
DGHR/L-1616K-3-25L	16	16	125	16.3	25	3.0	DGM30CE	HTMT520	ETL25	0.27
DGHR/L-2020K-3-25L	20	20	125	20.3	25	3.0	DGM30CE	HTMT525	ETL25	0.42
DGHR/L-2525M-3-25L	25	25	150	25.3	25	3.0	DGM30CE	HTMT525	ETL25	0.78
DGHR-3232P-3-25L	32	32	170	32.3	25	3.0	DGM30CE	HTMT525	ETL25	1.43
DGHR/L-1616K-4-20L	16	16	125	16.3	20	4.0	DGM40CT	HTMT520	ETL25	0.27
DGHR/L-2020K-4-20L	20	20	125	20.3	20	4.0	DGM40CT	HTMT525	ETL25	0.42
DGHR/L-2525M-4-20L	25	25	150	25.3	20	4.0	DGM40CT	HTMT525	ETL25	0.78
DGHR/L-1616K-4-25L	16	16	125	16.3	25	4.0	DGJ40CE	HTMT520	ETL25	0.27
DGHR/L-2020K-4-25L	20	20	125	20.3	25	4.0	DGJ40CE	HTMT525	ETL25	0.42
DGHR/L-2525M-4-25L	25	25	150	25.3	25	4.0	DGJ40CE	HTMT525	ETL25	0.78
DGHR-3232P-4-25L	32	32	170	32.3	25	4.0	DGJ40CE	HTMT525	ETL25	1.43
DGHR/L-1616K-5-25L	16	16	125	16.3	25	5.0	DGM50CT	HTMT520	ETL25	0.27
DGHR/L-2020K-5-25L	20	20	125	20.3	25	5.0	DGM50CT	HTMT525	ETL25	0.42
DGHR/L-2525M-5-25L	25	25	150	25.3	25	5.0	DGM50CT	HTMT525	ETL25	0.78

被切削材 Workpiece material	Steel 鋼	P	●	●	●
	Stainless steel 不銹鋼	M	●	●	●
	Cast iron 鑄鐵	K	●	●	●
	Non-ferrous metal 非鐵金屬	N			

Insert Shape	Description	GRADE 材質				Dimensions,mm			
		Coated 塗層		Uncoated 無塗層		W	L	H	Re
		GT25	GV65	NW745	NM304				
	DGM 30CT	●	●			3	20	5	0.4
	40CT	●	●			4	20	5	0.4
	50CT	●				5	25	6	0.4
	DGM 20CE					2	25	3	0.2
	30CE	●				3	25	5	0.2
	DGJ 30CE			●	●	3	25	5	0.2
	40CE				●	4	25	6	0.2

內徑車刀
BORING
BARS

外徑車刀
TOOLHOLDERS

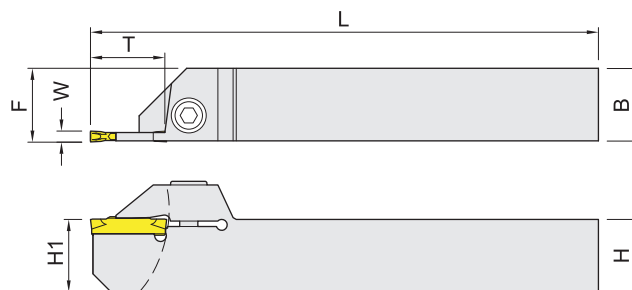
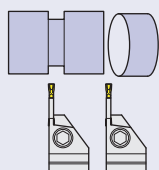
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

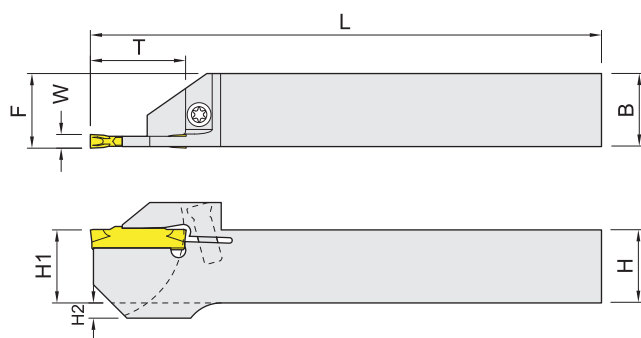
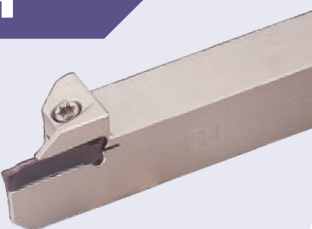
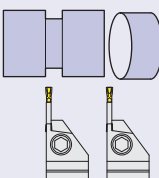
GYM



Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T					
GYMR-2020K-2-13L	20	20	125	20.25	13	2.0	GY2M02..D	HTM625	PL50	0.42
GYMR-2020K-2-18L	20	20	125	20.25	18					0.42
GYMR-2020K-3-08L	20	20	125	20.35	8	3.0	GY2M03..F	HTM625	PL50	0.42
GYMR-2525M-3-08L	25	25	150	25.35				HTM630		0.78
GYMR-2020K-3-12L	20	20	125	20.35	12			HTM625		0.42
GYMR/L-2525M-3-12L	25	25	150	25.35				HTM630		0.78
GYMR/L-2020K-3-20L	20	20	125	20.35	20			HTM625		0.42
GYMR/L-2525M-3-20L	25	25	150	25.35				HTM630		0.78
GYMR/L-3232P-3-12L	32	32	170	32.35	12	4.0	GY2M04..G	HTM625	PL50	1.43
GYMR-2020K-4-20L	20	20	125	20.35	20					HTM630
GYMR-2525M-4-20L	25	25	150	25.35	20	5.0	GY2M05..H	HTM625	PL50	0.42
GYMR-2020K-5-20L	20	20	125	20.45				HTM630		0.78
GYMR-2525M-5-20L	25	25	150	25.45				1.43		
GYMR-3232P-5-20L	32	32	170	32.45						

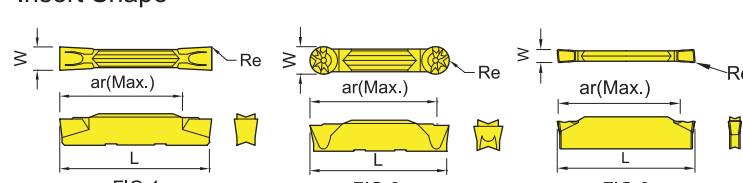
GYM..LH

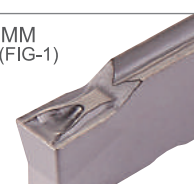
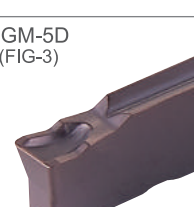
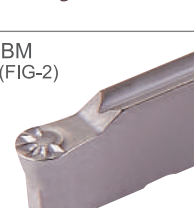
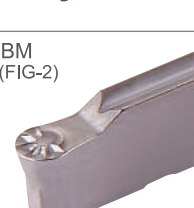


Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
GYMR/L-1010K-2-11LH	10	10	125	10.25	11	2	2.0	GY2M02..D	MS4013F	ETL15	0.10
GYMR/L-1212K-2-13LH	12	12	125	12.25	13	2					0.17
GYMR/L-1212K-2-17LH	12	12	125	12.25	17	2					0.17
GYMR-1616K-2-13LH	16	16	125	16.25	13	--					0.25
GYMR/L-1616K-2-18LH	16	16	125	16.25	18	--	3.0	GY2M03..F			0.25
GYMR-1616K-3-16LH	16	16	125	16.3	16	--					0.25
GYMR-1616K-3-20LH	16	16	125	16.3	20	--					0.25

※走心式刀 SWISS-TYPE

Insert Shape 	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		

屑槽樣式 Breaker Name	Description	Dimensions,mm					GRADE 材質	
		W	L	ar(Max.)	Re	K	Coated 塗層	Uncoated 無塗層
							NW950	NY942
多機能 (精加工) For Multifunctional Grooving (Finishing)	MF (FIG-1) 	GY2G0200D020N-MF	2	21.05	19.5	0.2	--	●
		GY2G0300F020N-MF	3	21.05	19.5	0.2	--	●
		GY2G0400G020N-MF	4	25.95	24.9	0.2	--	●
		GY2G0500H020N-MF	5	25.95	24.2	0.2	--	●
多功能 (小進給加工) For Multifunctional Grooving (Finishing)	MS (FIG-1) 	GY2M0200D020N-MS	2	20.70	19.1	0.2	--	●
		GY2M0300F020N-MS	3	20.70	19.2	0.2	--	●
		GY2M0300F040N-MS		20.70	18.9	0.4	--	●
		GY2M0400G040N-MS	4	25.65	23.9	0.4	--	●
		GY2M0500H040N-MS	5	25.65	23.9	0.4	--	●
多功能 (小進給加工) For Multifunctional Grooving	MM (FIG-1) 	GY2M0200D020N-MM	2	20.70	19.1	0.2	--	●
		GY2M0300F020N-MM	3	20.70	19.1	0.2	--	●
		GY2M0300F040N-MM		20.70	18.9	0.4	--	●
		GY2M0400G040N-MM	4	25.65	24.1	0.4	--	●
		GY2M0500H040N-MM	5	25.65	23.9	0.4	--	●
切斷●切槽 Grooving / Cutting off	GM (FIG-1) 	GY2M0200D020N-GM	2	20.70	19.4	0.2	--	●
		GY2M0300F030N-GM	3	20.70	19.4	0.3	--	●
		GY2M0400G030N-GM	4	25.65	24.4	0.3	--	●
		GY2M0500H040N-GM	5	25.65	24.3	0.4	--	●
	GM-5D (FIG-3) 	GY2M0200D02L5GM	2	20.80	19.5	0.2	5°	●
		GY2M0200D02R5GM		20.80	19.5	0.2	5°	●
		GY2M0300F03L5GM	3	20.85	19.5	0.3	5°	●
		GY2M0300F03R5GM		20.85	19.5	0.3	5°	●
		GY2M0400G03R5GM	4	25.85	24.5	0.3	5°	●
		GY2M0500H04R5GM	5	25.95	24.5	0.4	5°	●
	BM (FIG-2) 	GY2M0200D100N-BM	2	20.90	19.5	1.0	--	●
		GY2M0300F150N-BM	3	20.90	19.0	1.5	--	●
		GY2M0400G200N-BM	4	25.80	23.4	2.0	--	●
		GY2M0500H250N-BM	5	25.80	22.8	2.5	--	●
仿型 For Copying	BM (FIG-2) 	GY2M0200D100N-BM	2	20.90	19.5	1.0	--	●
		GY2M0300F150N-BM	3	20.90	19.0	1.5	--	●
		GY2M0400G200N-BM	4	25.80	23.4	2.0	--	●
		GY2M0500H250N-BM	5	25.80	22.8	2.5	--	●

內徑車刀
BORING
TOOL

外徑車刀
TOOLHOLDERS

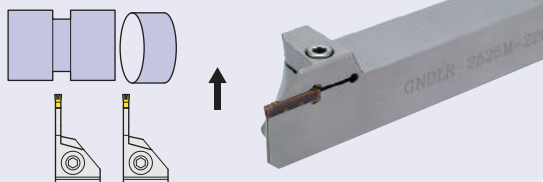
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

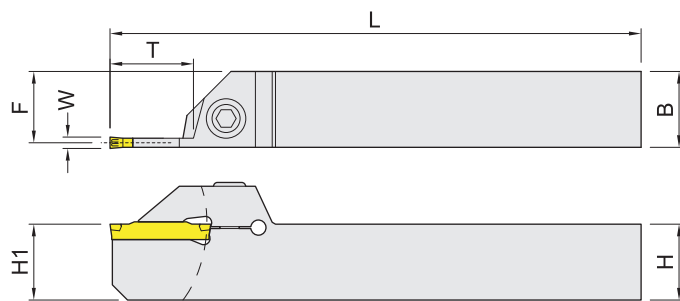
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

GNDL



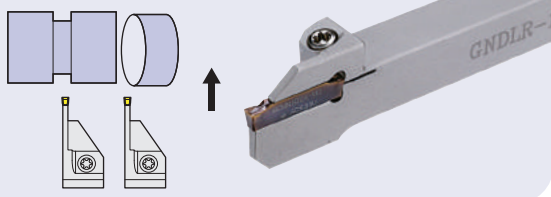
功能：開槽 Grooving / 切斷 Cut-off



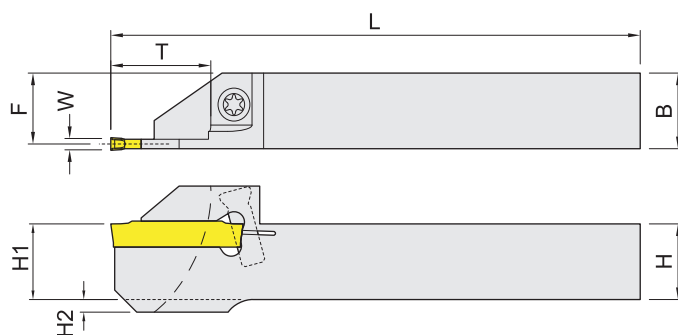
Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg	
	H(H1)	B	L	F	T						
GNDLR-2020K-220T	20	20	125	19.2	20	2.0	GCMN20...	HTMT525	ETL25	0.45	
GNDLR-2525M-220T	25	25	150	24.2							0.84
GNDLR-1616K-320T	16	16	125	14.9	20	3.0	GCMN30...	HTMT520		0.24	
GNDLR-2020K-320T	20	20	125	18.9						HTMT525	0.45
GNDLR-2525M-320T	25	25	150	23.9							0.84
GNDLR-2020K-420T	20	20	125	18.5	20	4.0	GCMN40...			0.45	
GNDLR-2020K-425T	20	20	125	18.5	25					0.45	
GNDLR-2525M-425T	25	25	150	23.5						0.84	

GNDL..LH



功能：開槽 Grooving / 切斷 Cut-off



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
GNDLR/L-1212K-216LHT	12	12	125	11.25	16	2	2.0	GCMN20...	MS4013F	ETL15	0.15
GNDLR/L-1616K-216LHT	16	16	125	15.25	16	--					0.24
GNDLR/L-1212K-318LHT	12	12	125	10.95	18	2	3.0	GCMN30...			0.15

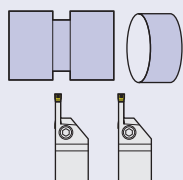
※走心式刀 SWISS-TYPE

※刀片請參考 101 頁 See page 101 for insert.

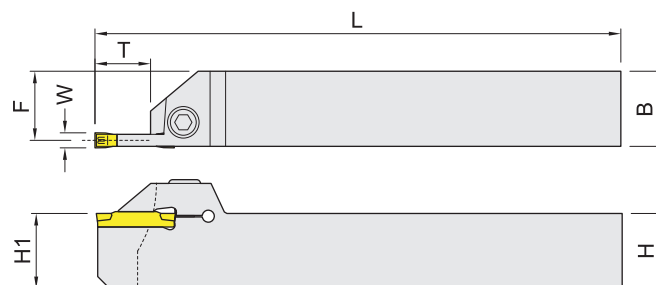
外徑切槽刀 EXTERNAL GROOVING TOOLHOLDERS



GNDM



功能：開槽 Grooving / 橫送 Turning / 仿型 Profiling



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

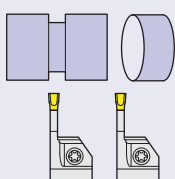
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

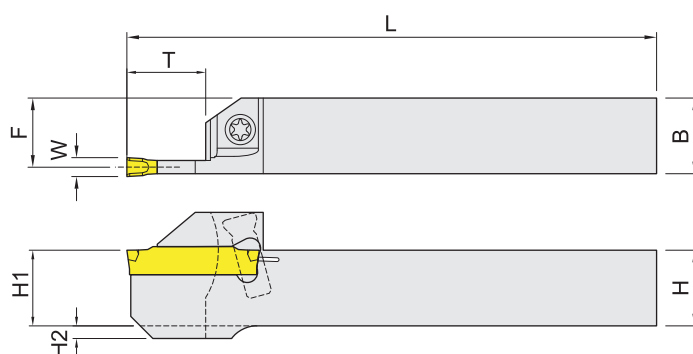
NEW

Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
GNDMR-1616K-312T	16	16	125	14.9	12	3.0	GCMN30...	HTMT520 HTMT525	ETL25	0.24
GNDMR-2020K-312T	20	20	125	18.9						0.45
GNDMR-2525M-312T	25	25	150	23.9						0.84
GNDMR-2020K-418T	20	20	125	18.5	18	4.0	GCMN40...			0.45
GNDMR-2525M-418T	25	25	150	23.5						0.84
GNDMR/L-2525M-518T	25	25	150	23	18	5.0	GCMN50...	HTM630	PL50	0.84
GNDMR/L-2525M-618T	25	25	150	22.5		6.0	GCMN60...			0.84

GNDM..LH



功能：開槽 Grooving / 橫送 Turning / 仿型 Profiling

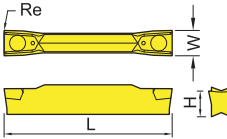
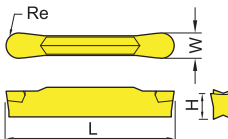
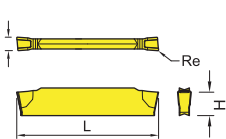


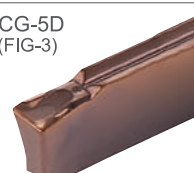
Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2					
GNDMR/L-1212K-312LHT	12	12	125	10.95	12	2	3.0	GCMN30...	MS4013F	ETL15	0.15

※走心式刀 SWISS-TYPE

※刀片請參考 101 頁 See page 101 for insert.

Insert Shape						
 FIG-1	 FIG-2	 FIG-3	Steel 鋼	P	●	●
			Stainless steel 不銹鋼	M	●	●
			Cast iron 鑄鐵	K	●	●
			Non-ferrous metal 非鐵金屬	N		

屑槽樣式 Breaker Name		Description	Dimensions,mm					GRADE 材質		
			W	L	H	Re	K	Coated 塗層		
多機能 (泛用型) For Multifunctional Grooving (General Purpose)	MG (FIG-1) 	GCMN3004-MG	3	21.1	3.8	0.4	--	●		●
		GCMN4008-MG	4	26.4	4.0	0.8	--	●		●
		GCMN5008-MG	5	26.4	4.1	0.8	--	●		●
		GCMN6008-MG	6	26.4	4.5	0.8	--		●	●
多機能 (低送型) For Multifunctional Grooving (Low feed)	ML (FIG-1) 	GCMN3002-ML	3	21.1	3.8	0.2	--	○		●
		GCMN4004-ML	4	26.4	4.0	0.4	--	●		●
		GCMN5004-ML	5	26.4	4.1	0.4	--	●		
		GCMN6004-ML	6	26.4	4.5	0.4	--			●
仿型 (泛用型) For Profiling (General Purpose)	RG (FIG-2) 	GCMN3015-RG	3	21.1	3.8	1.5	--	●		
		GCMN4020-RG	4	26.4	4.0	2.0	--	●		
		GCMN5025-RG	5	27.2	4.1	2.5	--	●		
		GCMN6030-RG	6	27.5	4.5	3.0	--			
切斷●切槽 (泛用型) For Grooving / Cut-off (General Purpose)	GG (FIG-1) 	GCMN2002-GG	2	21.1	3.6	0.2	--	●		
		GCMN3004-GG	3	21.1	3.8	0.4	--			
		GCMN4004-GG	4	26.4	4.0	0.4	--		●	
		GCMN5004-GG	5	26.4	4.1	0.4	--			
切斷●切槽 (低抵抗) For Grooving / Cut-off (Low Cutting Force)	GF (FIG-1) 	GCMN3002-GF	3	21.1	3.8	0.2	--	○		
		GCMN4002-GF	4	26.4	4.0	0.2	--	○		
		GCMN5002-GF	5	26.4	4.1	0.2	--	○		
		GCMN6002-GF	6	26.4	4.5	0.2	--	●		
切斷●切槽 (切斷) Grooving / Cut-off	CG-5D (FIG-3) 	GCMR/L2002-CG05	2	21.1	3.6	0.2	5°	●		
		GCMR/L3002-CG05	3	21.3	3.8	0.2	5°	○		
		GCMR/L4002-CG05	4	26.7	4.0	0.2	5°	○		

MGEH

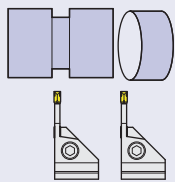
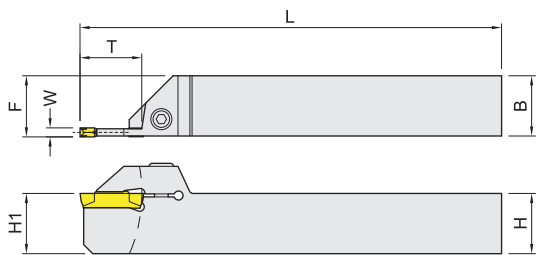
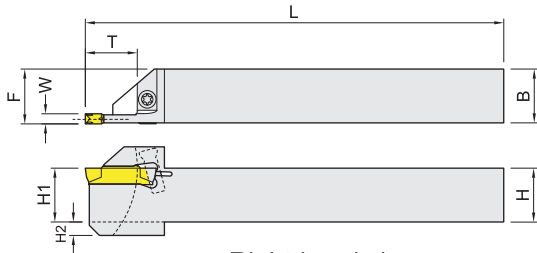


FIG-1



Right-hand shown

FIG-2



Right-hand shown

FIG-1 Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
MGEHR/L-1616K-2T16T	16	16	125	16.25	16	2.0	MGMN200..	HTMT520	ETL25	0.26
MGEHR/L-2020K-2T20T	20	20	125	20.25	20			HTMT525		0.41
MGEHR/L-2525M-2T20T	25	25	150	25.25	20					0.77
MGEHR/L-1616K-3T20T	16	16	125	16.3	20	3.0	MGMN300..	HTMT520	ETL25	0.26
MGEHR/L-2020K-3T20T	20	20	125	20.3	20			HTMT525		0.41
MGEHR-2525M-3T20T	25	25	150	25.3	20					0.77

FIG-2 Item code	Dimensions,mm						Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2					
MGEHR-1010K-1.5TH10T	10	10	125	10.15	10	2	1.5	MGMN150..	MS4013F	ETL15	0.10
MGEHR-1212K-2.5TH13T	12	12	125	12.25	13	2	2.5	MGMN250..			0.17

※走心式刀 SWISS-TYPE

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K		
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm				
		Coated 塗層	Uncoated 無塗層	W	L	H	Re	K°
		NC3030	H01					
	MGMN 150-G	●		1.5	16.0	3.5	0.15	--
	200-G	●	●	2.0	16.0	3.5	0.2	--
	MGMN 250-G	●		2.5	18.5	3.85	0.2	--
	300-G			3.0	21.0	4.8	0.4	--
	MRMN 200-M	●		2.0	16.0	3.5	1.0	--
	300-M			3.0	21.0	4.8	1.5	--

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

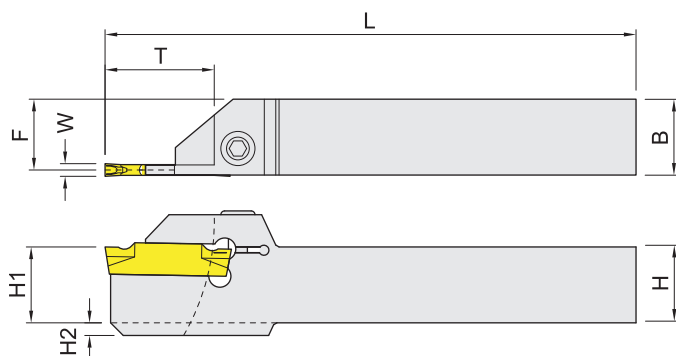
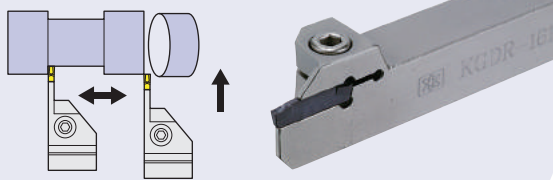
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

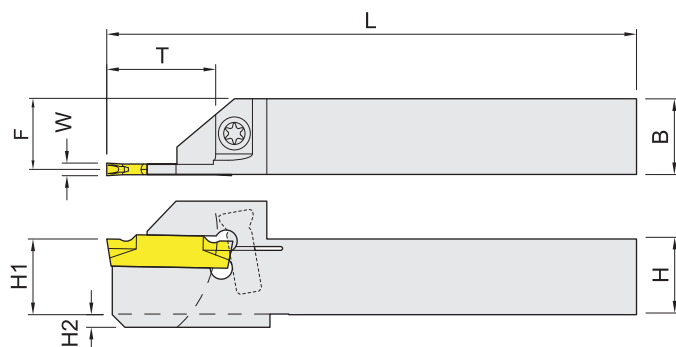
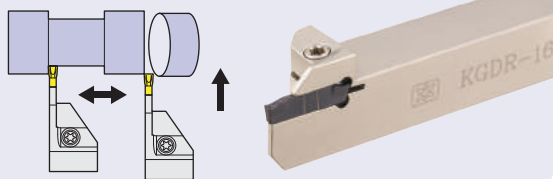
KGD



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
KGDR/L-1616K-2T13T	16	16	125	15.2	13	--	2.0	GDM2020	HTMT520	ETL25	0.25
KGDR/L-2020K-2T17T	20	20	125	19.2	17				HTMT525		0.39
KGDR/L-2525M-2T17T	25	25	150	24.2							0.74
KGDR-1616K-3T20T	16	16	125	14.8	20	--	3.0	GDM3020	HTMT520		0.27
KGDR/L-2020K-3T20T	20	20	125	18.8					HTMT525		0.39
KGDR/L-2525M-3T20T	25	25	150	23.8							0.74

KGD..LH



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
KGDR/L-1010K-2TH13T	10	10	125	9.2	13	4	2.0	GDM2020	MS4013F	ETL15	0.10
KGDR/L-1212K-2TH13T	12	12	125	11.2		2					0.14
KGDR/L-1616K-2TH13T	16	16	125	15.2		--					0.25
KGDR/L-1212K-2TH17T	12	12	125	11.2	17	2					0.14
KGDR/L-1616K-2TH17T	16	16	125	15.2		--					0.25
KGDR/L-1212K-3TH16T	12	12	125	10.8	16	2	3.0	GDM3020			0.14
KGDR-1616K-3TH16T	16	16	125	14.8		--					0.25

※走心式刀 SWISS-TYPE

※刀片請參考 104 頁 See page 104 for insert.

Insert Shape			Steel 鋼	P	●	●
			Stainless steel 不銹鋼	M	●	●
			Cast iron 鑄鐵	K	●	
			Non-ferrous metal 非鐵金屬	N		

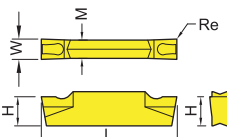


FIG-1

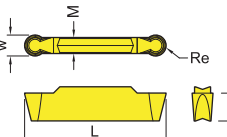


FIG-2

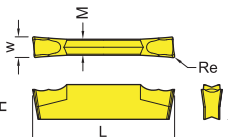
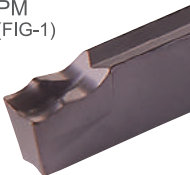


FIG-3

屑槽樣式 Breaker Name		Description	Dimensions,mm						GRADE 材質	
									Coated 塗層	Uncoated 無塗層
			W	L	H	M	Re	K	PR1215	PR1225
切槽●切斷 (高進給) For Grooving / Cut-off (High feed)	PH (FIG-1) 	GDM2020N-020PH	2	20.0	4.3	1.50	0.2	--	●	●
		GDM3020N-030PH	3	20.0	4.3	2.30	0.3	--		●
		GDM4020N-030PH	4	20.0	4.3	3.30	0.3	--		●
切斷(通用) Cut-Off (General Purpose)	PM (FIG-1) 	GDM2020N-020PM	2	20.0	4.3	1.50	0.2	--		○
		GDM2520N-020PM	2.5	20.0	4.3	1.95	0.2	--		○
		GDM3020N-025PM	3	20.0	4.3	2.30	0.25	--		○
切斷(通用) 斜 6° Cut-Off / General Purpose (6°Lead Angle)	PM-6D (FIG-3) 	GDM2020R-020PM-6D	2	20.0	4.3	1.50	0.2	6°		○
		GDM3020R-025PM-6D	3	20.0	4.3	2.30	0.25	6°		●
切槽/橫向 (低進給) Grooving and Turning (Low feed)	GL (FIG-1) 	GDM2420N-020GL	2.4	20.0	4.3	1.95	0.2	--		○
		GDM3020N-040GL	3	20.0	4.3	2.30	0.4	--		○
切槽/橫向 (通用) Grooving and Turning (General purpose)	GM (FIG-1) 	GDM2420N-020GM	2.4	21.1	4.3	1.95	0.2	--		
		GDM3020N-020GM	3	26.4	4.3	2.30	0.2	--		
		GDM3020N-040GM	3	26.4	4.3	2.30	0.4	--		●
		GDM4020N-040GM	4	26.4	4.3	2.30	0.4	--		●
圓槽. 仿形 Full-R/Copying	CM (FIG-2) 	GDM3020N-150R-CM	3	20.0	4.3	2.30	1.5	--	○	○
		GDM4020N-200R-CM	4	20.0	4.3	3.30	2.0	--	○	○

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

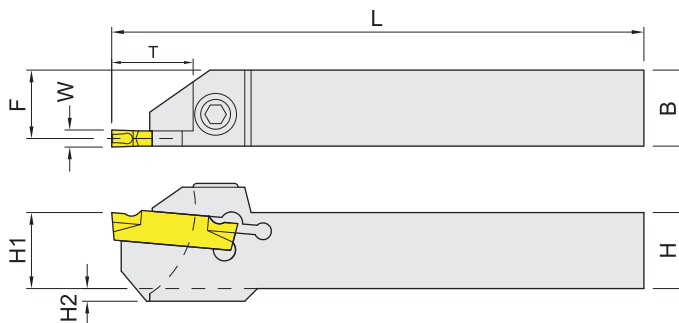
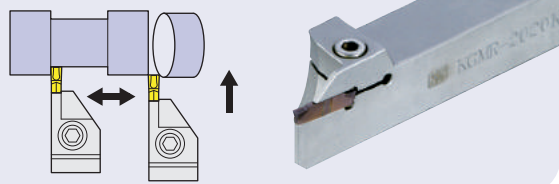
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

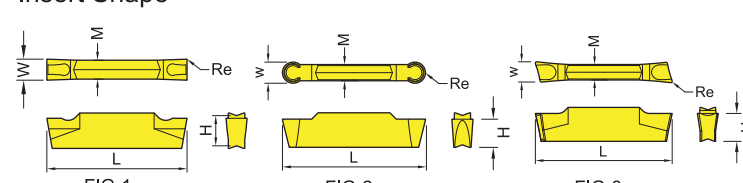
KGM



Right-hand shown

Item code	Dimensions,mm						Width W(mm)		Insert	Screw	Wrench	Weight Kg
	H	B	L	F	T	H2	min	max				
KGMR/L-1212K-1.5-L10	12	12	125	11.4	10	2	1.5	2.0	GMM1520...	HTM416	PL30	0.14
KGMR/L-1616K-1.5-L10	16	16	125	15.4		--			GMM2020...	HTMT520	ETL25	0.27
KGMR/L-2020K-1.5-L10	20	20	125	19.4						HTMT525		0.42
KGMR/L-2525M-1.5-L10	25	25	150	24.4								0.78
KGMR/L-1212K-2T-L10	12	12	125	11.1	10	2	2.0	3.0	GMM2020...	HTM416	PL30	0.14
KGMR/L-1616K-2T-L10	16	16	125	15.1		--			GMM2520...	HTMT520	ETL25	0.27
KGMR/L-2020K-2T-L10	20	20	125	19.1					GMM3020...	HTMT525		0.42
KGMR/L-2525M-2T-L10	25	25	150	24.1								0.78
KGMR/L-1212K-2T-L13	12	12	125	11.1	13	3				HTM420	PL30	0.14
KGMR/L-1616K-2T-L13	16	16	125	15.1		--				HTMT520	ETL25	0.27
KGMR/L-2020K-2T-L13	20	20	125	19.1						HTMT525		0.42
KGMR/L-2525M-2T-L13	25	25	150	24.1								0.78
KGMR/L-1212K-2T-L17	12	12	125	11.1	17	4				HTM420	PL30	0.14
KGMR/L-1616K-2T-L17	16	16	125	15.1		--				HTMT520	ETL25	0.27
KGMR/L-2020K-2T-L17	20	20	125	19.1						HTMT525		0.42
KGMR/L-2525M-2T-L17	25	25	150	24.1								0.78
KGMR/L-1616K-3T-L16	16	16	125	14.8	16	--	3.0	4.0	GMM3020...	HTMT520	ETL25	0.27
KGMR/L-2020K-3T-L16	20	20	125	18.8					GMM4020...	HTMT525		0.42
KGMR/L-2525M-3T-L16	25	25	150	23.8								0.78
KGMR/L-1616K-3T-L20	16	16	125	14.8	20	4						0.27
KGMR/L-2020K-3T-L20	20	20	125	18.8		--						0.42
KGMR/L-2525M-3T-L20	25	25	150	23.8								0.78
KGMR-3232P-3T-L20	32	32	170	30.8								1.43
KGMR/L-2020K-4T-L20	20	20	125	18.3	20	--	4.0	5.0	GMM4020...	HTMT525	ETL25	0.42
KGMR/L-2525M-4T-L20	25	25	150	23.3					GMM5020...			0.78
KGMR/L-3232P-4T-L20	32	32	170	30.3								1.43
KGMR/L-2525M-5T-L20	25	25	150	22.8	20	--	5.0	6.0	GMM5020...	HTMT525	ETL25	0.78
KGMR/L-3232P-5T-L20	32	32	170	29.8					GMM6020...			1.43

※刀片請參考 106 頁 See page 106 for insert.

Insert Shape 	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●		
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

屑槽樣式 Breaker Name	Description	Dimensions,mm							GRADE 材質		
		W	L	H	M	Re	K		Coated 塗層		Uncoated 無塗層
									PR930	TN90	KW10
切斷,切深槽 (鋒利型) Deep Grooving / Cut-off Sharp-Cutting Oriented	MT (FIG-1) 	GMM1520-MT	1.5	20	4.3	1.2	0.0	--	●		●
		GMM2020-MT	2	20	4.3	1.5	0.0	--	●		●
		GMM2520-MT	2.5	20	4.3	1.9	0.0	--	●		●
		GMM3020-MT	3	20	4.3	2.3	0.0	--	●		●
M級圓槽,仿型 (注重排屑型) Chip Control Oriented / M Class Full-R / Copying	R (FIG-2) 	GMM3020-150R	3	20	4.3	2.3	1.5	--	●		●
		GMM4020-200R	4	20	4.3	3.3	2.0	--		●	
		GMM5020-250R	5	20	4.3	4.2	2.5	--	●		
		GMM6020-300R	6	20	4.3	5.2	3.0	--			
M級 (注重排屑型) Chip Control Oriented / M Class	MW (FIG-1) 	GMM2420-02MW	2.4	20	4.3	1.9	0.2	--			
		GMM3020-02MW	3	20	4.3	2.3	0.2	--			
		GMM4020-04MW	4	20	4.3	2.3	0.4	--	●		●
		GMM5020-04MW	5	20	4.3	3.3	0.4	--			●
		GMM6020-04MW	6	20	4.3	3.3	0.4	--	●		
M級(鋒利型) Sharp-Cutting Oriented / M Class	MS (FIG-1) 	GMM3020-04MS	3	20	4.3	2.3	0.4	--			
		GMM4020-04MS	4	20	4.3	3.3	0.4	--			
		GMM5020-04MS	5	20	4.3	4.3	0.4	--	●		
		GMM6020-04MS	6	20	4.3	4.3	0.4	--			
切斷(穩定型) Cut-off Stability Oriented With lead angle	TK-8D (FIG-3) 	GMM2020R-TK-8D	2	20	4.3	4.3	0.2	8°	○		
		GMM2520R-TK-8D	2.5	20	4.3	4.3	0.2	8°	○		
		GMM3020R-TK-8D	3	20	4.3	4.3	0.2	8°	○		●

內徑車刀
BORING
BARS

外徑車刀
TOOL
HOLDERS

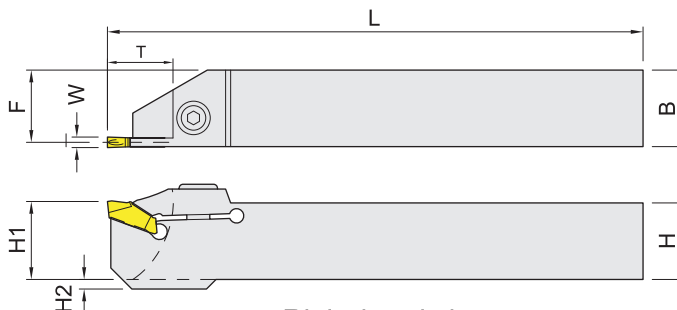
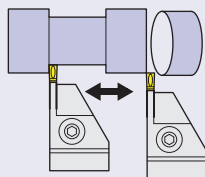
牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

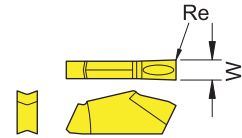
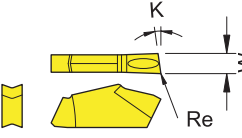
KTKH



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2					
KTKHR-1212K-2-13L	12	12	125	11.1	13	4	2.2	TKN2 TKN2.4	HTM416	PL30	0.14
KTKHR-1212M-2-13L	12	12	150	11.1			2.4				0.17
KTKHR-1616K-2-13L	16	16	125	15.1					HTMT520	ETL25	0.27
KTKHR-2020K-2-13L	20	20	125	19.1	20	--			HTMT525		0.42
KTKHR-2525M-2-13L	25	25	150	24.1							0.78
KTKHR-1616K-2-20L	16	16	125	15.1			2.2		HTMT520	ETL25	0.27
KTKHR-2020K-2-20L	20	20	125	19.1			2.4		HTMT525		0.42
KTKHR-2525M-2-20L	25	25	150	24.1							0.78
KTKHL-2012K-3-16L	20	12	125	10.8	16	--	3.1	TKN3	HTMT525	ETL25	0.41
KTKHR-2020K-3-16L	20	20	125	18.8							0.42
KTKHR-2525M-3-16L	25	25	150	23.8							0.78
KTKHR-1616K-3-22L	16	16	125	14.8	22	--	3.1	TKN3	HTMT520	ETL25	0.27
KTKHR-2020K-3-22L	20	20	125	18.8					HTMT525		0.42
KTKHR-2525M-3-22L	25	25	150	23.8							0.78
KTKHR-2020K-3-27L	20	20	125	18.8	27	--					0.42
KTKHR-2525M-3-27L	25	25	150	23.8							0.78
KTKHR-2525M-3-32L	25	25	150	23.8	32	--	3.1	TKN3	HTMT525	ETL25	0.78
KTKHR-2525M-4-32L	25	25	150	23.2			4.1	TKN4			0.78

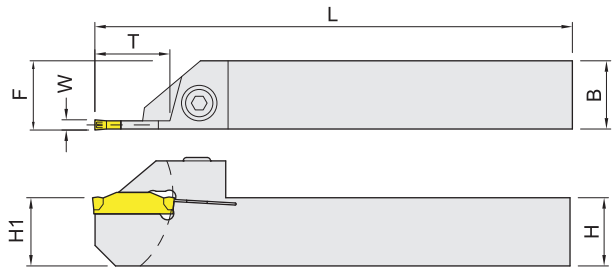
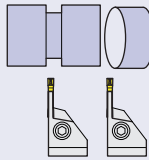
被切削材 Workpiece material	Steel 鋼	P	●		
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm		
		Coated 塗層		Cemented Carbide 硬質合金	W	R	K°
		CR9025	PR660				
	TKN	2	●	●	2.2	0.2	--
		2.4	○		2.4	0.2	--
		3		●	3.1	0.25	--
		4	●		4.1	0.3	--
	TKR/L	2			2.2	0.2	8°
		2.4			2.4	0.2	8°
		3		●	3.1	0.25	8°
		4		●	4.1	0.3	8°

外徑切槽刀 EXTERNAL GROOVING TOOLHOLDERS



TTER/L



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Item code

Dimensions,mm

Width
W(mm)

Insert

Screw

Wrench

Weight
Kg

H(H1)

B

L

F

T

TTER/L-2020K-2-08L

20

20

125

20.2

08

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.41

TTER/L-2020K-2-16L

20

20

125

20.2

16

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.42

TTER/L-2525M-2-16L

25

25

150

25.2

16

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.78

TTER/L-2020K-2-20L

20

20

125

20.2

20

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.42

TTER/L-2525M-2-20L

25

25

150

25.2

20

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.78

TTER/L-2020K-3-16L

20

20

125

20.3

16

3.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.42

TTER/L-2525M-3-16L

25

25

150

25.3

16

3.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.78

TTER/L-2020K-3-20L

20

20

125

20.3

20

3.0

TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.42

TTER/L-2525M-3-20L

25

25

150

25.3

20

3.0

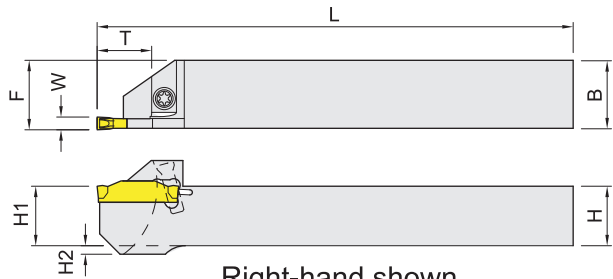
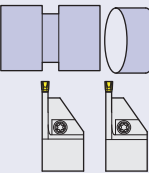
TDC...
TSC../TDJ..
TSJ../TDT..

HTMT525

ETL25

0.78

TTER/L..LH



Right-hand shown

Item code

Dimensions,mm

Width
W(mm)

Insert

Screw

Wrench

Weight
Kg

H(H1)

B

L

F

T

H2

TTER/L-1010K-2-10LH

10

10

125

10.2

10

2

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

MS4013F

ETL15

0.10

TTER/L-1212K-2-12LH

12

12

125

12.2

12

2

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

MS4013F

ETL15

0.17

TTER/L-1616K-2-12LH

16

16

125

16.2

12

--

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

MS4013F

ETL15

0.25

TTER/L-1212K-2-16LH

12

12

125

12.2

16

2

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

MS4013F

ETL15

0.17

TTER/L-1616K-2-16LH

16

16

125

16.2

16

--

2.0

TDC...
TSC../TDJ..
TSJ../TDT..

MS4013F

ETL15

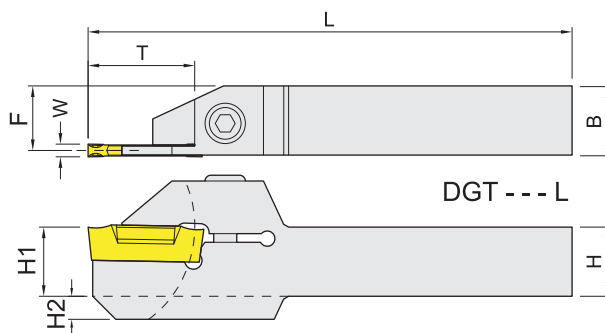
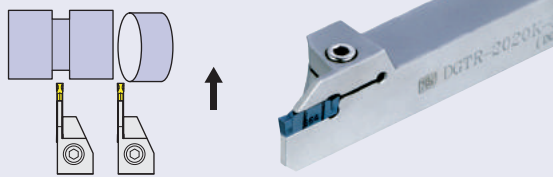
0.25

※走心式刀 SWISS -TYPE

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm				
		Coated 塗層		Uncoated 無塗層	W	L	H	Re	K°
		TT9080	TT8020	K10					
	TDJ2	●		○	2.0	20	4.7	0.2	--
	TDJ3	●			3.0	20	4.7	0.2	--
	TDJ2-15R		●		2.0	20	4.7	0.2	15
	TDJ3-15R	●			3.0	20	4.7	0.2	15

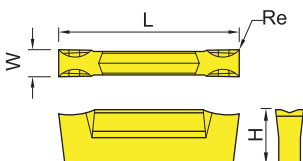
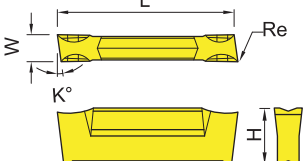
DGT



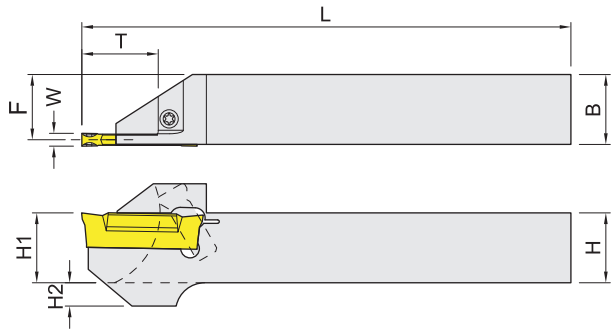
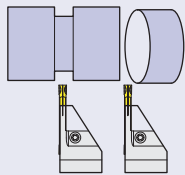
Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2					
NEW DGTR/L-1616K-2-13L	16	16	125	15.3	13	--	2.0	DGN20..	HTMT525	ETL25	0.27
DGTR-2020K-2-13L	20	20	125	19.3			2.2	DGN22..			0.42
DGTR-2525M-2-13L	25	25	150	24.3							0.78
DGTR/L-1212K-2-18L	12	12	125	11.3	18	4			HTM420	PL30	0.14
DGTR/L-1616K-2-18L	16	16	125	15.3		--			HTMT520	ETL25	0.27
DGTR/L-2020K-2-18L	20	20	125	19.3					HTMT525		0.42
DGTR/L-2525M-2-18L	25	25	150	24.3							0.78
NEW DGTR/L-1616K-3-12L	16	16	125	14.8	12	--	3.0	DGN30..	HTMT525	ETL25	0.27
DGTR/L-2020K-3-12L	20	20	125	18.8			3.1	DGN31..			0.42
DGTR/L-2525M-3-12L	25	25	150	23.8							0.78
NEW DGTR/L-1616K-3-16L	16	16	125	14.8	16	--			HTMT525		0.27
NEW DGTR/L-2020K-3-16L	20	20	125	18.8							0.42
NEW DGTR/L-2525M-3-16L	25	25	150	23.8							0.78
DGTR/L-1616K-3-20L	16	16	125	14.8	20	--					0.27
DGTR/L-2020K-3-20L	20	20	125	18.8							0.42
DGTR/L-2525M-3-20L	25	25	150	23.8							0.78

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm			
		Coated 塗層		Uncoated 無塗層	W	L	Re	K°
		IC354	TN6025	IC20				
	DGN 2002C	●		●	2.0	19.7	0.2	--
	2202C	●		●	2.2	19.8	0.2	--
	2202J		●		2.2	19.8	0.2	--
	3102C	●			3.1	20.1	0.2	--
	3102J		●	●	3.1	20.1	0.2	--
	DGR 2202C-6D	●			2.2	19.5	0.2	6
	2202J-6D		●		2.2	19.5	0.2	6
	DGR 3102C-6D	●		●	3.1	20.6	0.2	6
	3102J-6D		●		3.1	20.4	0.2	6
	3102J-15D		●		3.1	20.4	0.2	15

DGT..SH

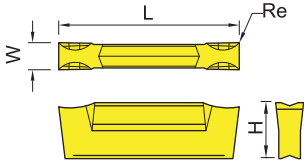
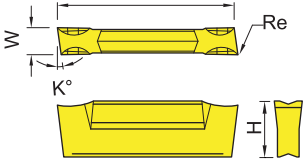


Right-hand shown

FIG-2 Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
DGTR/L-1010K-2-20SH	10	10	125	9.3	10	4	2.0	DGN20..	MS4013F	ETL15	0.08
DGTR/L-1010K-2-24SH	10	10	125	9.3	12	2	2.2	DGN22..			0.08
DGTR/L-1212K-2-24SH	12	12	125	11.3	12	4					0.14
DGTR/L-1212K-2-24SHB	12	12	125	11.3	12	--					0.14
DGTR/L-1616K-2-25SH	16	16	125	15.3	13						0.27

※走心式刀 SWISS -TYPE

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm			
		Coated 塗層		Uncoated 無塗層				
		IC354	TN6025	IC20	W	L	Re	K°
	DGN 2002C	●		●	2.0	19.7	0.2	--
	2202C	●		●	2.2	19.8	0.2	--
	2202J		●		2.2	19.8	0.2	--
	3102C	●			3.1	20.1	0.2	--
	3102J		●	●	3.1	20.1	0.2	--
	DGR 2202C-6D	●			2.2	19.5	0.2	6
	2202J-6D		●		2.2	19.5	0.2	6
	DGR 3102C-6D	●		●	3.1	20.6	0.2	6
	3102J-6D		●		3.1	20.4	0.2	6
	3102J-15D		●		3.1	20.4	0.2	15

內徑車刀
BORING
BARS

外徑車刀
TOOLHOLDERS

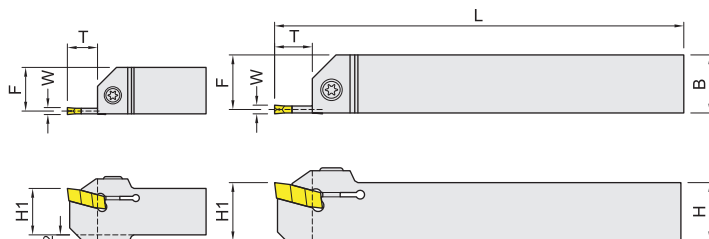
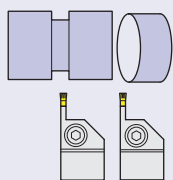
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

GHD

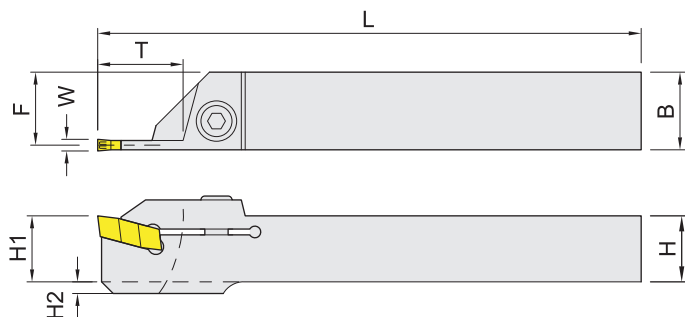
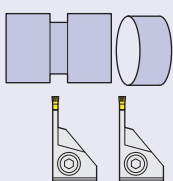


GHDR-1616K

Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg	
	H(H1)	B	L	F	T	H2						
GHDR-1616K-3-10L	16	16	125	14.8	10	4	2.8~4	GIP...	HTMT525	ETL25	0.27	
GHDR/L-2020K-3-10L	20	20	125	18.8		--		4~5			GIF...	0.42
GHDR/L-2525M-3-10L	25	25	150	23.8		--					GIMF...	0.78
GHDR/L-2020K-4-10L	20	20	125	18.4		--	GIMY...				0.42	
GHDR/L-2525M-4-10L	25	25	150	23.4		--					0.78	
GHDR-2020K-5-12L	20	20	125	17.9	12	--	5~6.4				0.42	
GHDR-2525M-5-12L	25	25	150	22.9		--					0.78	

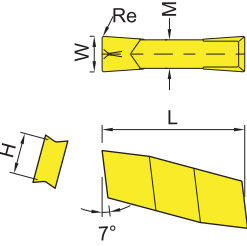
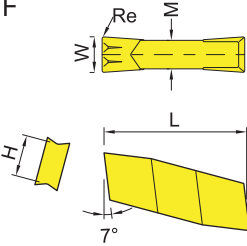
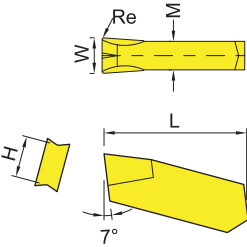
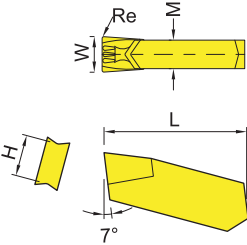
GHG



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench	Weight Kg	
	H(H1)	B	L	F	T	H2						
GHGR-1616K-2-20L	16	16	125	15.2	20	4	2.2~2.4	GIP...	HTMT525	ETL25	0.27	
GHGR-2020K-2-20L	20	20	125	19.2		--		3~4			GIF...	0.42
GHGR-2525M-2-20L	25	25	150	24.2		GIMF...					0.78	
GHGR/L-1616K-3-20L	16	16	125	14.7		4	GIMY...		HTMT525		0.27	
GHGR/L-2020K-3-20L	20	20	125	18.7		--	4~5				0.42	
GHGR/L-2525M-3-20L	25	25	150	23.7					0.78			
GHGR/L-2020K-4-20L	20	20	125	18.2				0.42				
GHGR/L-2525M-4-20L	25	25	150	23.2				0.78				
GHGR/L-2020K-4-25L	20	20	125	18.2	25		HTM625	PL50	0.42			
GHGR/L-2525M-4-25L	25	25	150	23.2			HTM630		0.78			

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K		●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm						
		Coated 塗層	Uncoated 無塗層	W	L	M	H	Re	K°	
		IC354	IC20							
GIP 	GIP 3.00-0.00			3	16	2.4	5	0	--	
	3.00-0.20							0.2	--	
	3.00E-0.20	●						0.2	--	
	3.00E-0.40	●						0.4	--	
	4.00E-0.40	●		4	16	3.2	5	0.4	--	
	4.00E-0.60							0.6	--	
	4.00E-0.80							0.8	--	
	5.00-0.40			5	16	4.0	5	0.4	--	
	5.00E-0.40							0.4	--	
	5.00E-0.60							0.6	--	
	5.00E-0.80							0.8	--	
GIF 	GIF 4.00E-0.40			4	16	3.2	5	0.4	--	
	4.00E-0.80							0.8	--	
	5.00E-0.40			5	16	4.0	5	0.4	--	
	5.00E-0.80							0.8	--	
GIMF 	GIMF 406			4	16	3.4	5	0.6	--	
	502			5	16	4.0	5	0.2	--	
GIMY 	GIMY 304			3	16	2.4	5	0.4	--	

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

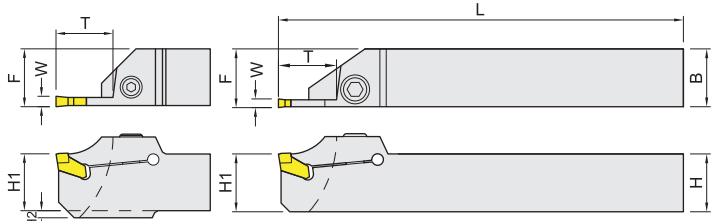
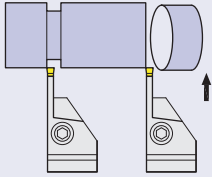
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

GFNR

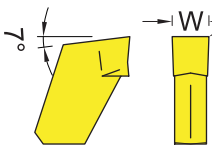


GFNR-1212K
GFNR-1616K

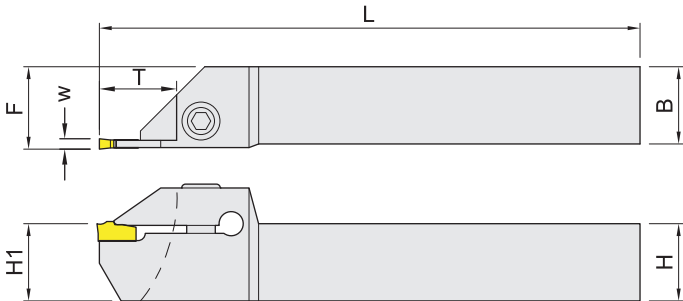
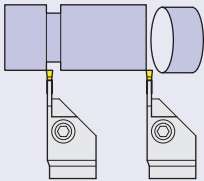
Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench	Weight Kg	
	H(H1)	B	L	F	T	H2						
GFNR-1212K-2-20L	12	12	125	12.25	20	4	2.0	GFN 2	HTM420	PL30	0.14	
GFNR-1616K-2-20L	16	16	125	16.25		3			HTMT520		ETL25	0.27
GFNR-2020K-2-20L	20	20	125	20.25		--			HTMT525			0.42
GFNR-2525M-2-20L	25	25	150	25.25		--						0.78
GFNR-1616K-3-20L	16	16	125	16.3	20	--	3.0	GFN 3	HTMT520	ETL25	0.27	
GFNR-2020K-3-20L	20	20	125	20.3		--			HTMT525		0.42	
GFNR-2525M-3-20L	25	25	150	25.3		--					0.78	

被切削材 Workpiece material	Steel 鋼	P	●	●	●	●	
	Stainless steel 不銹鋼	M	●	●	●	●	
	Cast iron 鑄鐵	K		●	●		
	Non-ferrous metal 非鐵金屬	N					●

Insert Shape	Description	GRADE 材質					Dimensions,mm	
		Coated 塗層				Uncoated 無塗層		
		IC354	GT25	GA45	TN6025	IC20	W	Re
	GFN 2	●					2.2	0.16
	2.4	○					2.4	0.16
	2A					●	2.2	0.16
	3	●	●	●			3.0	0.2
	3A					○	3.0	0.2

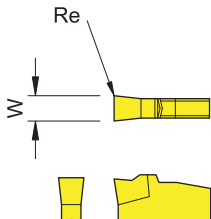
R/LF151.23



Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert			Weight Kg
	H(H1)	B	L	F	T					
R/LF151.23-1616K-20M1	16	16	125	17	15	2.0	N151.2-200-5E	HTMT520	ETL25	0.27
R/LF151.23-2020K-20M1	20	20	125	21				HTMT525		0.42
R/LF151.23-2525M-20M1	25	25	150	26						0.78
RF151.23-1616K-25T10	16	16	125	17	10	2.5	N151.2-250-5E	HTMT520		0.27
RF151.23-2020K-25T10	20	20	125	21				HTMT525		0.42
RF151.23-2525M-25T10	25	25	150	26						0.78
RF151.23-1616K-25M1	16	16	125	17	20	2.5	N151.2-300-5E	HTMT520		0.27
RF151.23-1616K-30T10	16	16	125	17	10	3.0		HTMT520		0.27
RF151.23-2020K-30T10	20	20	125	21				HTMT525		0.42
RF151.23-2525M-30T10	25	25	150	26						0.78
R/LF151.23-1616K-30M1	16	16	125	17	20	3.0		HTMT520		0.27
R/LF151.23-2020K-30M1	20	20	125	21				HTMT525		0.42
R/LF151.23-2525M-30M1	25	25	150	26						0.78

被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	

Insert Shape	Description	GRADE 材質	Dimensions,mm		
		Coated 塗層			
		1125	W	Re	K°
	N151.2-200-5E	●	2.0	0.2	--
	N151.2-250-5E	●	2.5	0.2	--
	N151.2-300-5E	●	3.0	0.2	--

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

A3SC

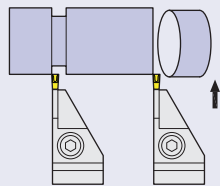


FIG-1

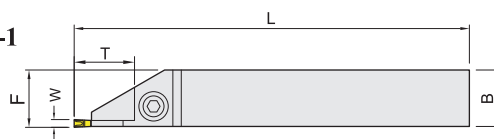
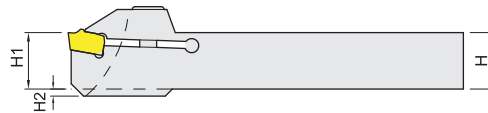
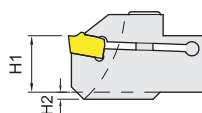


FIG-2

A3SC --- LH

A3SC --- L



Right-hand shown

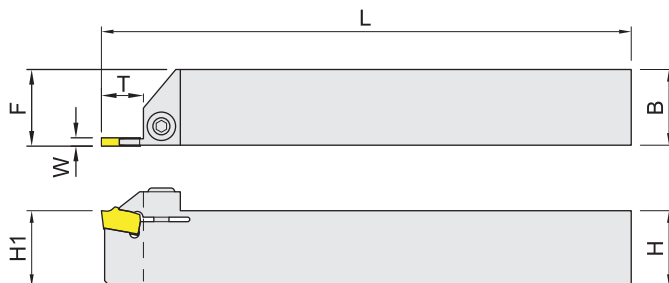
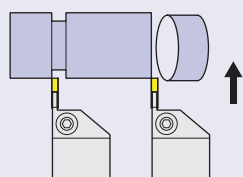
FIG-1 Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench	Weight Kg		
	H(H1)	B	L	F	T	H2							
A3SCR/L-1010K02-10L	10	10	125	10.25	10	4	2.2	A2022..	HTM416	PL30	0.10		
A3SCR/L-1212K02-10L	12	12	125	12.25							0.15		
A3SCR/L-1212K02-16L	12	12	125	12.25	16	--						HTMT520	ETL25
A3SCR/L-1616K02-16L	16	16	125	16.25					0.27				
A3SCR/L-2020K02-16L	20	20	125	20.25					0.42				
A3SCR/L-2525M02-16L	25	25	150	25.25			0.78						
A3SCR -1616K03-16L	16	16	125	16.25	16		3.05	A2030..	HTMT520		0.27		
A3SCR/L-2020K03-16L	20	20	125	20.25					HTMT525		0.42		
A3SCR/L-2525M03-16L	25	25	150	25.25							0.78		
A3SCR/L-2020K03-22L	20	20	125	20.25	22								0.42
A3SCR/L-2525M03-22L	25	25	150	25.25									0.78
A3SCR/L-2020K03-26L	20	20	125	20.25	26						0.42		
A3SCR/L-2525M03-26L	25	25	150	25.25							0.78		

A3SC..LH

FIG-2 Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench	Weight Kg			
	H(H1)	B	L	F	T	H2								
A3SCR/L-1010K02-10LH	10	10	125	10.25	10	2	2.2	A2022..	HTM416	PL30	0.10			
A3SCR/L-1212K02-10LH	12	12	125	12.25	16	--					0.14			
A3SCR/L-1212K02-16LH	12	12	125	12.25		3					0.14			
A3SCR/L-1616K02-16LH	16	16	125	16.25		--			HTMT520	ETL25	0.25			
A3SCR/L-2020K02-16LH	20	20	125	20.25		HTMT525			0.39					
A3SCR/L-2525M02-16LH	25	25	150	25.25	16	3	3.05	A2030..	HTM416	PL30	0.74			
A3SCR/L-1212K03-16LH	12	12	125	12.25							--	HTMT520	ETL25	0.14
A3SCR/L-1616K03-16LH	16	16	125	16.25							HTMT525	0.25		
A3SCR/L-2020K03-16LH	20	20	125	20.25					0.39					
A3SCR/L-2525M03-16LH	25	25	150	25.25					0.74					
A3SCL -2020K03-20LH	20	20	125	20.25	20						0.39			

※走心式刀 SWISS -TYPE

A3SM..LH

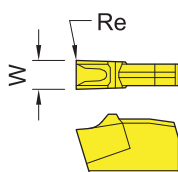
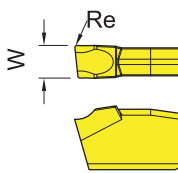


Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T					
A3SMR/L-1616K-2-10LH	16	16	125	16.25	10	2.2	A2022..	HTM420	PL30	0.27
A3SMR/L-2020K-2-10LH	20	20	125	20.25						0.42
A3SMR/L-2525M-2-10LH	25	25	150	25.25						0.78

※走心式刀 SWISS -TYPE

被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	●

Insert Shape	Description	GRADE 材質	Dimensions,mm		
		Coated 塗層	W	Re	K°
		KC5025			
	A2022N00CF02	●	2.20	0.2	--
	A2030N00CF02	●	3.05	0.2	--
	A2022R06CF02	●	2.20	0.2	6
	A2030R06CF02	●	3.05	0.2	6

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

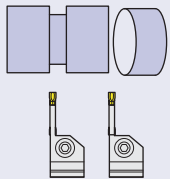
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

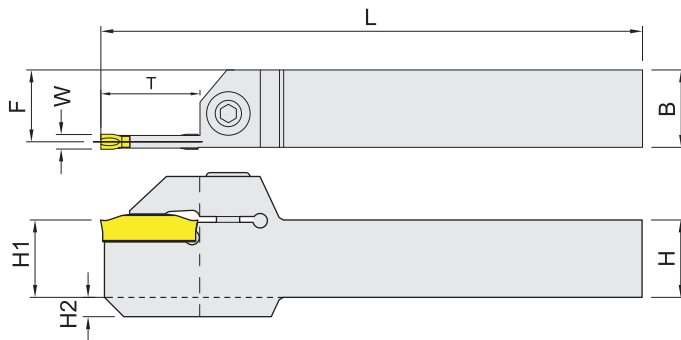
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

TNP



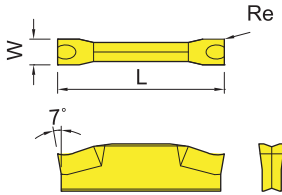
功能：開槽 Grooving / 切斷 Cut-Off



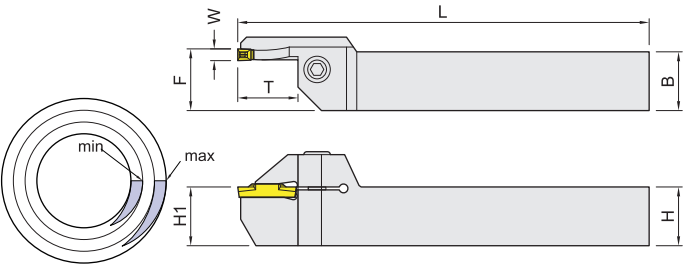
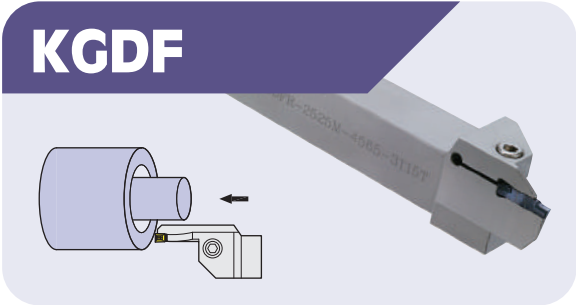
Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	H2	T					
TNPR/L-1616K-320T	16	16	125	14.85	4	20	3.05	TN300..	HTMT525	ETL25	0.27
TNPR/L-2020K-320T	20	20	125	18.85	--						0.42
TNPR/L-2525M-320T	25	25	150	23.85	--						0.78

被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	
	Non-ferrous metal 非鐵金屬	N	

Insert Shape	Description	GRADE 材質	Dimensions,mm			
		Coated 塗層	W	L	Re	K°
		5820				
	TN300/00G2N48	●	3.05	20	0.2	--

端面開槽刀
FACE GROOVING TOOLHOLDERS



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

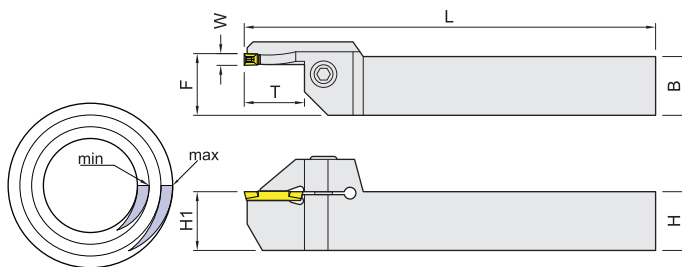
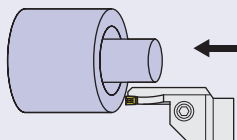
配件
SPARE PARTS

Item code	Dimensions,mm							Hole Diameter ØD		Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	W	T		min	max				
KGDFR-2020K-3045-3T15	20	20	125	21	3	15		30	45	GDFM3020..	HTMT525	ETL25	0.45
KGDFR-2020K-4565-3T15								45	65				0.45
KGDFR-2020K-6585-3T20						20		65	85				0.45
KGDFR-2525M-3045-3T15	25	25	150	26	3	15		30	45	GDFM3020..	HTMT525	ETL25	0.84
KGDFR-2525M-4565-3T15								45	65				0.84
KGDFR-2525M-6585-3T20						20		65	85				0.84
KGDFR-2525M-85110-3T20								85	110				0.84
KGDFR-2525M-110145-3T20								110	145				0.84
KGDFR-2020K-5070-4T20	20	20	125	21	4	20		50	70	GDFM4020..	HTMT525	ETL25	0.45
KGDFR-2020K-70100-4T20								70	100				0.45
KGDFR-2525M-3550-4T15	25	25	150	26	4	15		35	50	GDFM4020..	HTMT525	ETL25	0.84
KGDFR-2525M-5070-4T20						20		50	70				0.84
KGDFR-2525M-70100-4T20								70	100				0.84
KGDFR-2525M-100150-4T25						25		100	150				0.84
KGDFR-2525M-150220-4T25								150	220				0.84
KGDFR-2525M-220800-4T25								220	800				0.84
KGDFR-2525M-5075-5T25	25	25	150	26	5	25		50	75	GDFM5020..	HTMT525	ETL25	0.84
KGDFR-2525M-75115-5T25								75	115				0.84
KGDFR-2525M-115180-5T25								115	180				0.84
KGDFR-2525M-180235-5T25								180	235				0.84
KGDFR-2525M-235800-5T25								235	800				0.84

被切削材 Workpiece material	Steel 鋼	P		●	●
	Stainless steel 不銹鋼	M		●	
	Cast iron 鑄鐵	K	●		
	Non-ferrous metal 非鐵金屬	N			

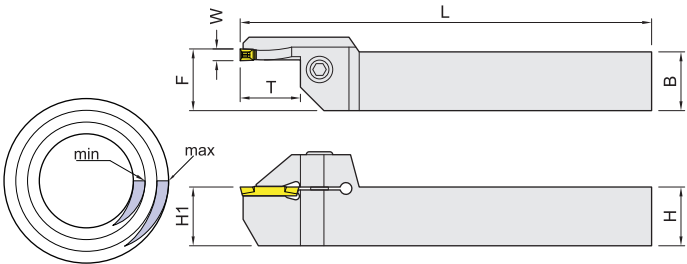
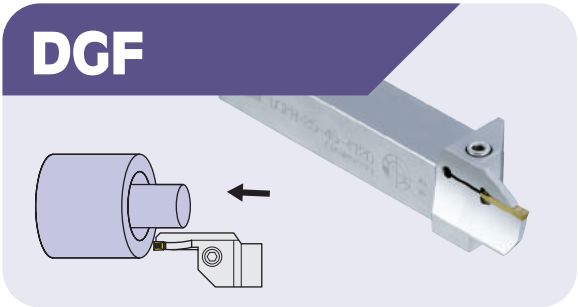
Insert Shape	Description	GRADE 材質			Dimensions,mm				
		Coated 塗層		Uncoated 無塗層	W	Re	M	L	H
		PR1215	PR1225	TN620					
	GDFM 3020N03GM	●	●		3	0.3	2.1	20	4.3
	4020N04GM	●	●		4	0.4	3.1	20	4.5
	5020N04GM	●	●		5	0.4	4.1	20	4.5
	GDFM 3020N150RCM			●	3	1.5	2.1	20	4.3
	4020N200RCM			●	4	2.0	3.1	21	4.5

DGF



Right-hand shown

Item code	Dimensions,mm						Hole Diameter ØD		Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	W	T	min	max				
DGFR/L-20-028-3T15	20	20	125	21	3	15	28	34	DGM30CTF	HTMT525	ETL25	0.42
DGFR/L-20-034-3T15							34	45				0.42
DGF L-20-045-3T15							45	70				0.42
DGFR/L-20-045-3T20						20	45	70				0.42
DGFR -20-070-3T20							70	100				0.42
DGFR -20-100-3T20							100	140				0.42
DGFR -20-140-3T20							140	200				0.42
DGFR -20-200-3T20							200	800				0.42
DGFR/L-25-028-3T15	25	25	150	26	3	15	28	34	DGM30CTF	HTMT525	ETL25	0.78
DGFR/L-25-034-3T15							34	45				0.78
DGFR/L-25-045-3T15							45	70				0.78
DGFR/L-25-045-3T20						20	45	70				0.78
DGFR -25-070-3T20							70	100				0.78
DGFR -25-100-3T20							100	140				0.78
DGFR -25-140-3T20							140	200				0.78
DGFR -25-200-3T20							200	800				0.78
DGFR/L-20-028-4T15	20	20	125	21	4	15	28	34	DGM40CTF	HTMT525	ETL25	0.42
DGFR/L-20-034-4T20						20	34	45				0.42
DGFR/L-20-045-4T20							45	70				0.42
DGFR -20-070-4T20							70	100				0.42
DGFR -20-100-4T20							100	140				0.42
DGFR -20-140-4T20							140	200				0.42
DGFR -20-200-4T20							200	800				0.42
DGFR -20-070-4T25	20	20	125	21	4	25	70	100	DGM40CTF	HTMT525	ETL25	0.42
DGFR -20-100-4T25							100	140				0.42
DGFR -20-140-4T25							140	200				0.42
DGFR -20-200-4T25							200	800				0.42
DGFR/L-25-028-4T15	25	25	150	26	4	15	28	34	DGM40CTF	HTMT525	ETL25	0.78
DGFR/L-25-034-4T20						20	34	45				0.78
DGFR/L-25-045-4T20							45	70				0.78
DGFR -25-070-4T20							70	100				0.78
DGFR -25-100-4T20							100	140				0.78
DGFR -25-140-4T20							140	200				0.78
DGFR -25-200-4T20							200	800				0.78
DGFR -25-070-4T25	25	25	150	26	4	25	70	100	DGM40CTF	HTMT525	ETL25	0.78
DGFR -25-100-4T25							100	140				0.78
DGFR -25-140-4T25							140	200				0.78
DGFR -25-200-4T25							200	800				0.78



Right-hand shown

Item code	Dimensions,mm						Hole Diameter ØD		Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	W	T	min	max				
DGFR-20-050-5T15	20	20	125	21	5	15	50	70	DGM50CTF	HTMT525	ETL25	0.42
DGFR-20-050-5T20						20	50	70				0.42
DGFR-20-070-5T20							70	120				0.42
DGFR-20-120-5T20							120	240				0.42
DGFR-20-240-5T20							240	800				0.42
DGFR-20-050-5T25						25	50	70				0.42
DGFR-20-070-5T25							70	120				0.42
DGFR-20-120-5T25							120	240				0.42
DGFR-20-240-5T25							240	800				0.42
DGFR-25-050-5T15	25	25	150	26	5	15	50	70	DGM50CTF	HTMT525	ETL25	0.78
DGFR-25-050-5T20						20	50	70				0.78
DGFR-25-070-5T20							70	120				0.78
DGFR-25-120-5T20							120	240				0.78
DGFR-25-240-5T20							240	800				0.78
DGFR-25-050-5T25						25	50	70				0.78
DGFR-25-070-5T25							70	120				0.78
DGFR-25-120-5T25							120	240				0.78
DGFR-25-240-5T25							240	800				0.78

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		

Insert Shape	Description	GRADE 材質		Dimensions,mm			
		Coated 塗層		W	L	H	Re
		GT25	GV65				
	DGM 30CTF	●	●	3	20	3.0	0.4
	40CTF	●	●	4	20	3.0	0.4
	50CTF	●	●	5	25	5.0	0.4

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

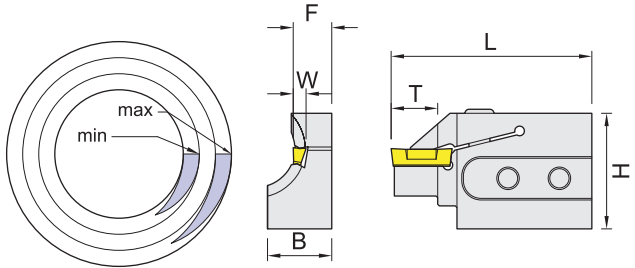
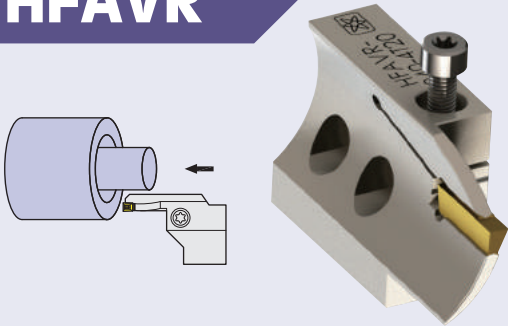
牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

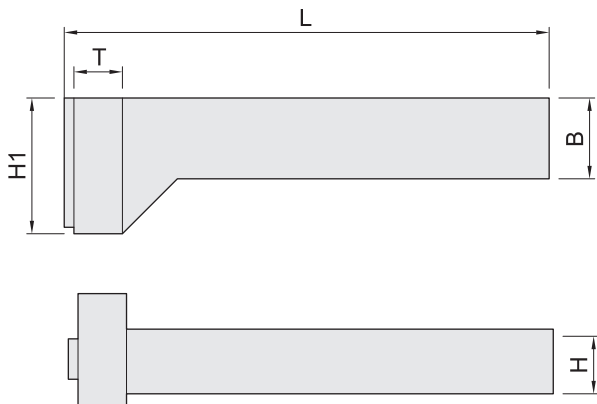
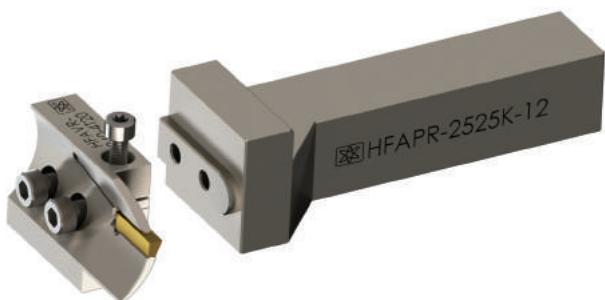
HFAVR



Item code	Dimensions,mm						Hole Diameter ØD		Insert	Screw 	Wrench 	Weight Kg
	L	W	T	H	B	F	min	max				
HFAVR-029-3T13	63.5	3	13	36	20	12	29	34	HFPR30..	HTMT525	ETL25	0.20
HFAVR-034-3T16			16				34	40				
HFAVR-040-3T16							40	48				
HFAVR-048-3T20			20				48	60				
HFAVR-060-3T20							60	75				
HFAVR-075-3T20			13			75	100					
HFAVR-100-3T20						100	140					
HFAVR-140-3T20						140	200					
HFAVR-200-3T20						200	800					
HFAVR-075-3T25	68.5	3	25	36	20	13	75	100				
HFAVR-100-3T25					18,5		100	140				
HFAVR-140-3T25					17		140	200				
HFAVR-200-3T25					14,5		200	800				
HFAVR-029-4T13	63.5	4	13	36	20	12	29	34	HFPR40.. GRIP40..	HTMT525	ETL25	0.40
HFAVR-034-4T16			16				34	40				
HFAVR-040-4T20							20	40				
HFAVR-048-4T20			48					60				
HFAVR-060-4T20			60					75				
HFAVR-075-4T20			14			75	100					
HFAVR-100-4T20						100	140					
HFAVR-140-4T20						140	200					
HFAVR-200-4T20						200	800					
HFAVR-075-4T25	68.5	4	25	36	20	14	75	100				
HFAVR-100-4T25					18,5		100	140				
HFAVR-140-4T25					17		140	200				
HFAVR-200-4T25					14,5		200	800				

※訂購刀座請參考 122 頁 See page 122 for holder.

端面開槽刀 FACE GROOVING TOOLHOLDERS



內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

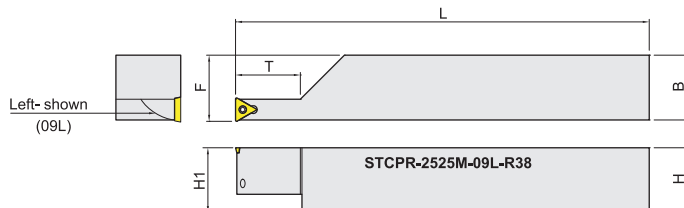
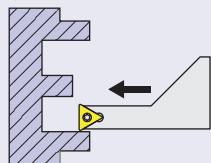
配件
SPARE PARTS

Item code	Dimensions,mm					Adapter	Screw 	Wrench 	Weight Kg
	H	B	L	H1	T				
HFAPR-2025K-12	20	25	125	42	15	HFAVR..	MS6026E	PL50	0.68
HFAPR-2525K-12	25	25	125	42	15				0.78

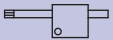
被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm			
		Coated 塗層	Uncoated 無塗層	W	L	M	Re
		IC354	IC20				
	HFPR 3003	●	○	3	19	2.1	0.3
	4004	●	○	4	19	2.8	0.4
	GRIP 4004Y			4	19	2.8	0.4

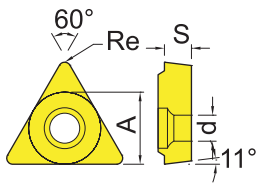
STCP



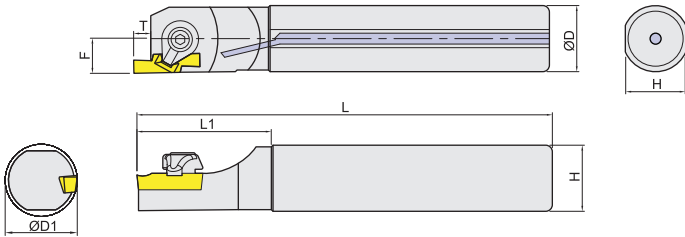
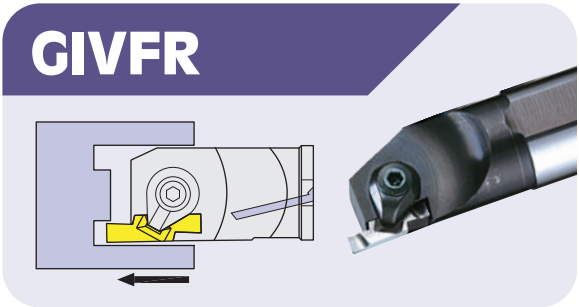
Right-hand shown (STCPR)

Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F	T				
STCPR/L-2525M-09R-R38	25	25	150	25.5	25	TPMT090204	MS2506A	ETF09	0.78
STCPR/L-2525M-09L-R38									0.78

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm			
		Coated 塗層	Uncoated 無塗層	A	S	d	Re
		NW948	NM304				
	TPMH090204MV	●		5.56	2.38	2.9	0.4
	TPGH090204LFS		●				

端面開槽刀
FACE GROOVING TOOLHOLDERS



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

Item code		Dimensions,mm							端面切槽外徑 ØD1 Face grooving diameter		Insert	Clamp	Wrench	Weight Kg
無水孔Non-coolant	水孔Coolant	ØD	F	T	L	L1	H		min	max				
GIVFR-1816Q-A	GIVFR-A1816Q-A	16	8.5	2.9	180	30	15	18	∞		GVFR...A	CPS5V	ETF15	0.28
GIVFR-2220Q-B	GIVFR-A2220Q-B	20	10.5	5.1	180	40	18	22	∞		GVFR...B	CPS6F	PL30	0.49
GIVFR-2825R-B	GIVFR-A2825R-B	25	13	5.1	200	45	23	28	∞			CPS6V		0.77
GIVFR-3532S-B		32	16.5	5.1	250	45	30	35(25)	∞					1.58

※ () 為端面切槽外徑值MIN~MAX進行切槽加工後，將槽寬向中心方向擴大，芯核的最小直徑
※ () When face grooving diameter is smaller than ØD1 25, toolholder will interfere with workpiece.

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K		●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm						
		Coated 塗層								
		TC40	KW10	W	※B	A	L	H	Re	
	GVFR 200A	○	○	2.0	2.3	4.3	12	4.5	0.2	
	250A	○	○	2.5	2.3	4.3	12	4.5	0.2	
	250B	●	●	2.5	4.8	5.8	20	5	0.2	
	300B	●	●	3.0	4.8	5.8	20	5	0.2	
	350B	●	●	3.5	4.8	5.8	20	5	0.2	
	400B	●	●	4.0	5.3	5.8	20	5	0.2	
	430B			4.3	5.3	5.8	20	5	0.2	
	460B			4.6	5.3	5.8	20	5	0.2	
	490B			4.9	5.3	5.8	20	5	0.2	

※B尺寸表示最大加工深度(Dimension B shows max grooving depth)

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

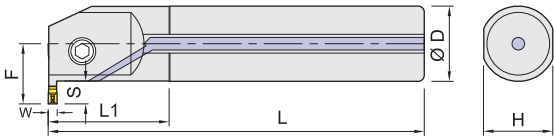
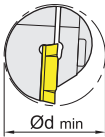
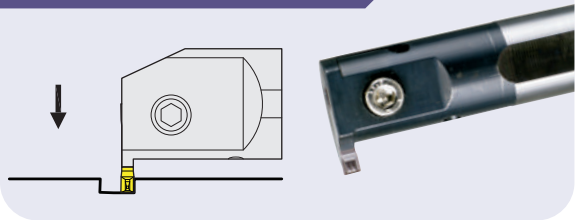
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

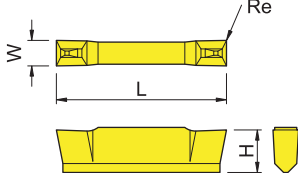
DGIR



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

Steel shank	Item code	Dimensions,mm							Insert	Screw 	Wrench 	Weight Kg
無水孔Non-coolant	水孔Coolant	D	L	L1	F	dmin	S	W				
DGIR/L-0020Q-3M-6.5L	DGIR-A0020Q-3M-6.5L	20	180	40	16.5	31	6.5	3	DGM30CT	HTMT520	ETL25	0.44
DGIR/L-0025R-3M-7.5L	DGIR-A0025R-3M-7.5L	25	200	40	20	37	7.5					0.77
DGIR/L-0032S-3M-9.0L	DGIR-A0032S-3M-9.0L	32	250	48	25	46	9.0					1.58
DGIR/L-0020Q-4M-6.5L	DGIR-A0020Q-4M-6.5L	20	180	40	16.5	31	6.5	4	DGM40CT	HTMT520	ETL25	0.44
DGIR/L-0025R-4M-7.5L		25	200	40	20	37	7.5					0.77
DGIR/L-0032S-4M-9.0L	DGIR-A0032S-4M-9.0L	32	250	48	25	46	9.0					1.58
DGIR-0032S-5M-17.5L	DGIR-A0032S-5M-17.5L	32	250	48	33.5	55	17.5	5	DGM50CT	HTMT520	ETL25	1.58
DGIR-0040S-5M-20L		40	250	48	40	65	20			HTMT525		2.47

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		

Insert Shape	Description	GRADE 材質		Dimensions,mm			
		Coated 塗層		W	L	H	Re
		GT25	GV65				
	DGM 30CT	●	●	3	20	5	0.4
	40CT	●	●	4	20	5	0.4
	50CT	●	●	5	25	6	0.4

內徑開槽刀 INTERNAL GROOVING TOOLHOLDERS



KIGMR

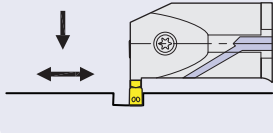


FIG-1

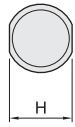
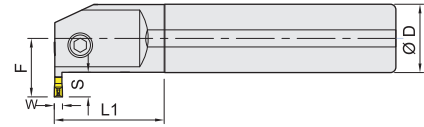
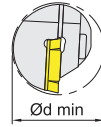
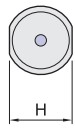
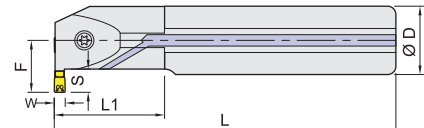
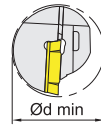


FIG-2



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

FIG-1 Item code	Dimensions,mm							Insert		Wrench	Weight Kg
	D	L	L1	F	dmin	S	W				
KIGMR-S20Q-3T07	20	180	35	17	28	7	3	GDM3020..	HTM516	PL40	0.44
KIGMR-S25R-3T09	25	200	40	21.5	35	9	3		HTMT520	ETL25	0.77

FIG-2 Item code	Dimensions,mm							Insert			Weight Kg
	D	L	L1	F	dmin	S	W				
KIGMR-S32S-4T11	32	250	50	23.5	40.5	11	4	GDM4020..	MS5017D	ETL20	1.58
KIGMR-S40T-4T11	40	300	50	27.5	48.5	11	4			ETL20	2.96
KIGMR-1916M-3	16	150	25	11	19	5.5	3	GMM3014..	MS5014A	ETF20	0.44
KIGMR-A1916M-3※	16	150	25	11	19	5.5	3		MS4013F	ETF15	0.44
KIGMR-S25R-4V-8.5L	25	200	40	19	32	8.5	4	GMM4020..V	MS5017D	ETL20	0.77
KIGMR-S32S-4V-11.0L	32	250	50	23.8	40	11	4			ETL20	1.58

※表示中心出水Coolant

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

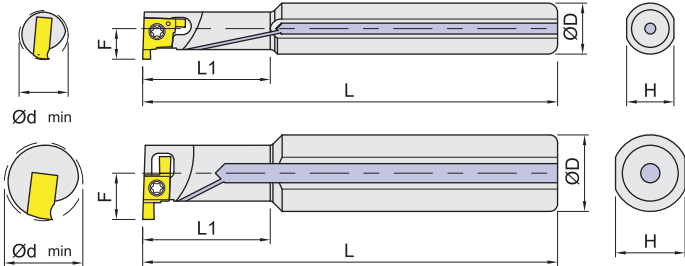
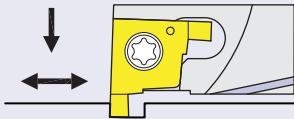
Insert Shape	Description	GRADE 材質			Dimensions,mm				
		Coated 塗層		Uncoated 無塗層	W	L	H	M	Re
		PR930	PR1215	KW10					
	GDM 3020N-...		●		3	20	4.3	2.3	0.3
	4020N-...		●		4	20	4.3	3.3	0.3
	3020N-150R		●		3	20	4.3	2.3	1.5
	4020N-200R		●		4	20	4.3	3.3	2.0
	GMM 3014-04	○		●	3	14	4.3	2.3	0.4
	4020-040V	●		●	4	20	4.3	3.3	0.4

內·徑·開·槽·刀

INTERNAL GROOVING



KIGER



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

NEW
NEW
NEW
NEW
NEW

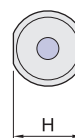
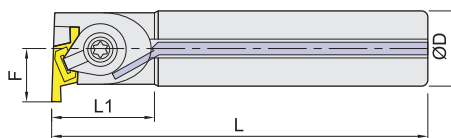
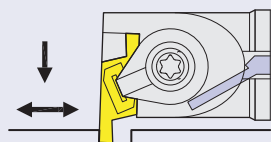
Item code 水孔Coolant	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	D	L	L1	F	H	dmin				
KIGER-A0808H-A	8	100	20	4.8	7	8	GER100-200A..	MS2005A	ETF06	0.04
KIGER-A1010K-B	10	125	25	6.2	9	10	GER100-300B..	MS2206A	ETF07	0.08
KIGER-A1412M-C	12	150	33	8	11	14	GER100-350C..	MS2507A	ETF09	0.13
KIGER-A1616N-C	16	160	36	9	15	16	GER100-350C..	MS2508A	ETF09	0.23
KIGER-A2020Q-D	20	180	40	12.1	19	20	GER100-400D..	MS3010A	ETF09	0.39

被切削材 Workpiece material	Steel 鋼	P	●	●		
	Stainless steel 不銹鋼	M	●	●		
	Cast iron 鑄鐵	K			●	●
	Non-ferrous metal 非鐵金屬	N			●	●

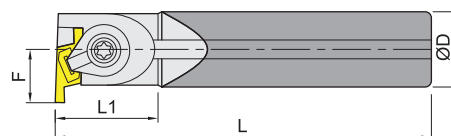
Insert Shape	Description	GRADE 材質				Dimensions,mm			
		Coated 塗層		Uncoated 無塗層		W	※B	Re	H
		PR1025	TN6020	KW10	GW15				
	GER100-005A	●	●	●		1.00	1.50	0.05	2.58
	GER125-005A	●	●	●		1.25		0.05	
	GER150-010A	●	●	●		1.50		0.10	
	GER200-010A	●	●	●		2.00		0.10	
	GER100-005B	●	●	●		1.00	2.20	0.05	3.18
	GER150-010B	●	●	●		1.50		0.10	
	GER200-010B	●	●	●		2.00		0.10	
	GER250-020B	●	●	●		2.50		0.20	
	GER100-050AR					1.00	1.50	0.50	2.58
	GER200-100AR					2.00		1.00	
	GER100-050BR					1.00	2.20	0.50	3.18
	GER200-100BR					2.00		1.00	
	GER100-005C	●	●		●	1.00	2.50	0.05	4.05
	GER150-010C	●	●		●	1.50		0.10	
	GER200-010C	●	●		●	2.00		0.10	
	GER250-020C	●	●		●	2.50		0.20	
	GER300-020C	●	●		●	3.00		0.20	
	GER100-005D	●	●		●	1.00	2.50	0.05	5.05
	GER150-010D	●	●		●	1.50	3.00	0.10	
	GER200-010D	●	●		●	2.00	3.20	0.10	
	GER250-020D	●	●		●	2.50	3.20	0.20	
	GER300-020D	●	●		●	3.00	4.50	0.20	
	GER200-100CR					2.00	2.50	1.00	4.05
	GER250-125CR					2.50		1.25	
	GER300-150CR					3.00		1.50	
	GER200-100DR					2.00	3.20	1.00	5.05
	GER300-150DR					3.00	4.50	1.50	

※B尺寸表示最大加工深度(Dimension B shows max grooving depth)

GIVR



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖



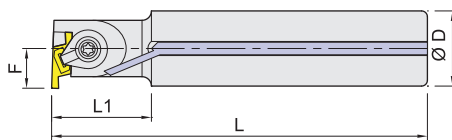
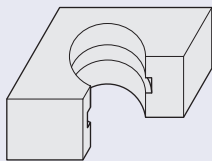
Carbide shank (right shown)
鎢鋼柄 右向示意圖

Steel shank Item code		Dimensions,mm					Insert		Clamp 	Wrench	Weight Kg
無水孔 Non-coolant	水孔Coolant	D	L	L1	F	dmin					
GIVR-1108K-1SS	GIVR-A1108K-1SS	08	125	20	7	11	GVR...SS	GVR100SS~300SS	CPS4V	ETF10	0.05
GIVR-1310K-1S	GIVR-A1310K-1S	10	125	25	8	14	GVR...S	GVR100S~340S	CPS5F-1	ETF15	0.08
GIVR-1512M-1A	GIVR-A1512M-1A	12	150	30	9	15	GVR...A	GVR100A~340A	CPS5F		0.15
GIVR-2016Q-1A	GIVR-A2016Q-1A	16	180	35	11	20	GVR...A	GVR100A~340A	CPS5V		0.28
GIVR-2520R-1B	GIVR-A2520R-1B	20	200	40	14	25	GVR...B	GVR145B~400B	CPS5V		0.50
GIVR-3225R-1C	GIVR-A3225R-1C	25	200	40	19.5	32	GVR...C	GVR280C~500C	CPS6V	PL30	0.77
GIVR-3225S-1C		25	250	40	19.5	32	GVR...C	GVR280C~500C	CPS6V		0.96
GIVR-4032S-2C	GIVR-A4032S-2C	32	250	48	23	40	GVR...C	GVR340C~500C	CPS6V		1.58

Carbide shank Item code		Dimensions,mm					Insert		Clamp 	Wrench 	Weight Kg
無水孔 Non-coolant	水孔Coolant	D	L	L1	F	dmin					
GIVR-C1108K-1SS		08	125	20	7	11	GVR...SS	GVR100SS~300SS	CPS4V	ETF10	0.09
GIVR-C1512M-1A		12	150	30	9	15	GVR...A	GVR100A~340A	CPS5F	ETF15	0.24

※刀片請參考 131 頁 See page 131 for insert.

GIVR



Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

Steel shank Item code		Dimensions,mm					Insert		Clamp	Wrench	Weight Kg
無水孔 Non-coolant	水孔Coolant	D	L	L1	F	dmin					
GIVR-1116L-1SS	GIVR-A1116L-1SS	16	140	20	7	11	GVR...SS	GVR100SS~300SS	CPS4V	ETF10	0.22
GIVR-1316L-1S	GIVR-A1316L-1S	16	140	25	8	13	GVR...S	GVR100S~340S	CPS5F-1	ETF15	0.22
GIVR-1516L-1A	GIVR-A1516L-1A	16	140	30	9	15	GVR...A	GVR100A~340A	CPS5F		0.22

※刀片請參考 131 頁 See page 131 for insert.

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

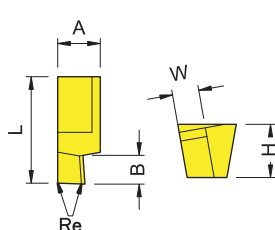
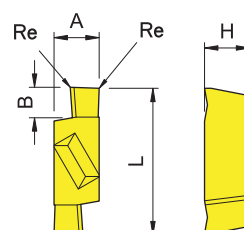
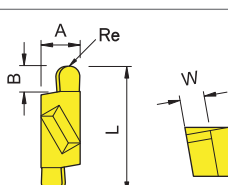
牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

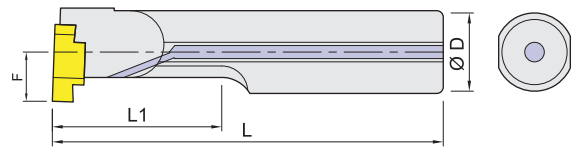
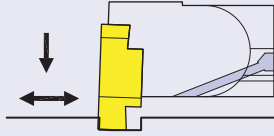
配件
SPARE PARTS

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm					
		Uncoated 無塗層			W	※B	R	A	L	H
		TC40	TC60	KW10						
	GVR/L	100SS	●	●	1.00	2.3	0.2	3.6	9.0	3.0
		125SS	●	●	1.25					
		145SS	●	●	1.45					
		200SS	●	●	2.00					
		250SS	●	●	2.50					
		300SS	●	●	3.00					
		100S	●	●	1.00	2.3	0.2	4.0	11.0	4.0
		125S	●	●	1.25					
		145S	●	●	1.45					
		185S	●		1.85					
		200S	●		2.00					
		250S		●	2.50					
		340S	●	●	3.40					
	GVR/L	100A	●	●	1.00	2.3	0.2	4.0	12.0	5.0
		125A		●	1.25					
		145A	●	●	1.45					
		185A	●	●	1.85					
		200A	●	●	2.00					
		250A	●	●	2.50					
		300A	●	●	3.00					
		340A	●	●	3.40					
		145B	●	●	1.45	2.8	0.2	4.5	15.0	5.5
		185B	●	●	1.85					
		200B	●	●	2.00	3.2				
		230B		●	2.30					
		250B	●	●	2.50					
		280B		●	2.80					
		300B		●	3.00	4.2				
		340B	●	●	3.40					
		400B	●	●	4.00					
		280C	●	●	2.80	4.5	0.2	5.8	21.0	6.5
		300C	●	●	3.00					
		340C	●	●	3.40	5.5				
		400C	●	●	4.00					
		430C	●	●	4.30	6.3				
		460C	●	●	4.60					
		500C	●	●	5.00					
	GVR/L	100AR		●	2.00	2.3	1.00	4.0	12.0	5.0
		125AR		●	2.50		1.25			
		150AR		●	3.00		1.50			
		100BR	●	●	2.00	3.2	1.00	4.5	15.0	5.6
		150BR		○	3.00	4.2	1.50			

※B尺寸表示最大加工深度(Dimension B shows max grooving depth)

FSL51

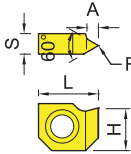
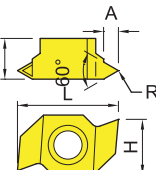
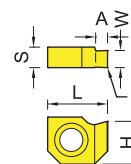
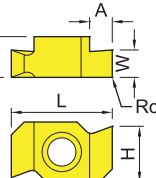


Coolant steel shank (right shown)
中心出水鋼柄 右向示意圖

功能：內徑 開槽 Grooving / 螺紋 Threading

Steel shank	Item code	Dimensions,mm					Insert		Screw	Wrench	Weight Kg
無水孔 Non-coolant	水孔Coolant	D	L	L1	F	dmin	槽加工 Grooving	螺紋加工 Threading			
FSL5108R	FSL51A08R	8	125	25	4.8	10	MLG10..L	MLT1001L	MS2506A	ETF09	0.05
FSL5110R	FSL51A10R	10	125	25	5.8	12					0.08
FSL5112R	FSL51A12R	12	150	36	6.8	14					0.13
FSL5114R	FSL51A14R	14	150	36	7.8	16					0.18
FSL5116R-14-D16	FSL51A16R-14-D16	16	180	42	8	17					0.28
FSL5116R	FSL51A16R	16	180	50	9.7	20	MLG20..L	MLT2001L	MS4011A	ETF15	0.28
FSL5120R		20	200	50	11.7	24					0.49

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		

Insert Shape	Description	GRADE 材質		Dimensions,mm							
		Coated 塗層	Uncoated 無塗層	W	L	H	A	S	Re/Rc	Pitch(mm)	
		NW734	NM936								
 MLT10..  MLT14,20..	MLT 1001L	●		--	7.0	5.00	--	2.38	0.1	1.5~2.0	
	1401L	●		--	11.8	6.50	--	4.76	0.1	1.5~2.5	
	2001L		●	--	16.8	9.03	--	6.35	0.1	1.5~3.5	
 MLG10..  MLG14,20..	MLG 1012L		●	1.2	7.0	5.00	1.0	2.38	0.1	--	
	1015L		●	1.5							
	1020L		●	2.0							
	1415L		●	1.5	11.8	6.50	2.0	4.76	0.1	--	
	1420L		●	2.0							
	1430L		●	3.0							
	2020L	●	●	2.0	16.8	9.03	3.0	6.35	0.1	--	
	2030L		●	3.0							
	2040L		●	4.0							

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

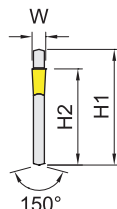
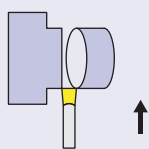
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

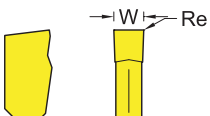
STFH



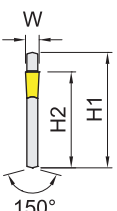
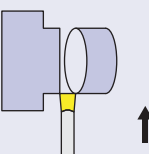
Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
STFH 26-3	26	21.4	110	3	WCF_3_	SGTBU...-26 SGTBV25-26	ESG-1	0.08
STFH 32-3	32	25	150	3		SGTBU...-32		0.12

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K		●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm		
		Coated 塗層	Uncoated 無塗層	W	Re	K°
		AC830P	G10E			

	WCF N3	●		3	0.2	--

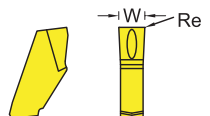
KTKB



Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench 	Weight Kg
	H1	H2	L	W				
KTKB 26-3	26	21.4	110	3.1	TKN 3	SGTBU..-26 SGTBV25-26	ESG-1	0.08
KTKB 26-4	26	21.4	110	4.1	TKN 4			0.08
KTKB 32-3	32	25	150	3.1	TKN 3	SGTBU..-32		0.12
KTKB 32-4	32	25	150	4.1	TKN 4			0.12

被切削材 Workpiece material	Steel 鋼	P	●		
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			
	Non-ferrous metal 非鐵金屬	N			●

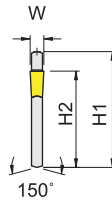
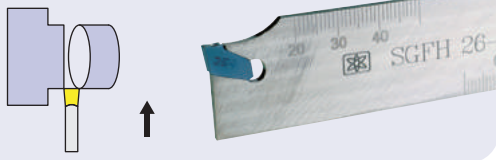
Insert Shape	Description	GRADE 材質			Dimensions,mm		
		Coated 塗層		Uncoated 無塗層	W	Re	K°
		PR660	TN90	KW10			

	TKN 3	●	●	●	3.1	0.25	--
	TKN 4	●	●		4.1	0.3	--

切斷切槽刀 PARTING & GROOVING TOOLHOLDERS



SGFH

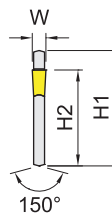
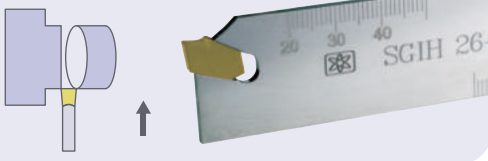


Item code	Dimensions,mm				Insert	TOOLBLOCK	 Wrench	Weight Kg
	H1	H2	L	W				
SGFH 26-2	26	21.4	110	2.2/2.4	GFN 2/2.4	SGTBU..-26 SGTBV25-26	 ESG-1	0.08
SGFH 26-3	26	21.4	110	3.0	GFN 3			0.08
SGFH 32-2	32	25	150	2.2/2.4	GFN 2/2.4	SGTBU..-32		0.09
SGFH 32-3	32	25	150	3.0	GFN 3			0.12

被切削材 Workpiece material	Steel 鋼	P	●	●	●
	Stainless steel 不銹鋼	M	●	●	●
	Cast iron 鑄鐵	K		●	●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm		
		Coated 塗層		Uncoated 無塗層	W	Re	K°
		IC354	GT25	IC20			
	GFN 2	●			2.2	0.16	--
	GFN 2A			●	2.2	0.16	--
	GFN 2.4	●			2.4	0.16	--
	GFN 3	●	●		3.0	0.2	--
	GFN 3A			●	3.0	0.2	--

SGIH



Item code	Dimensions,mm				Insert	TOOLBLOCK	 Wrench	Weight Kg
	H1	H2	L	W				
SGIH 26-2	26	21.4	110	2.2/2.4	GTN 2/2.4	SGTBU..-26 SGTBV25-26	 ESG-1	0.07
SGIH 26-3				3.1	GTN 3			0.08
SGIH 26-4				4.1	GTN 4			0.10
SGIH 32-2	32	25	150	2.2/2.4	GTN 2/2.4	SGTBU..-32		0.09
SGIH 32-3				3.1	GTN 3			0.12
SGIH 32-4				4.1	GTN 4			0.15

被切削材 Workpiece material	Steel 鋼	P	●	●	●
	Stainless steel 不銹鋼	M	●	●	●
	Cast iron 鑄鐵	K		●	●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm		
		Coated 塗層		Uncoated 無塗層	W	Re	K°
		IC354	GT25	TN6025			
	GTN 2	●			2.2	0.16	--
	GTN 2.4				2.4	0.16	--
	GTN 3		●	●	3.1	0.2	--
	GTN 4	●			4.1	0.24	--

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

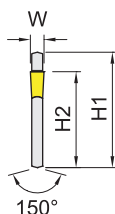
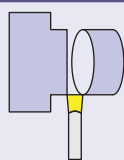
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

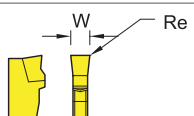
配件
SPARE PARTS

NF151.2

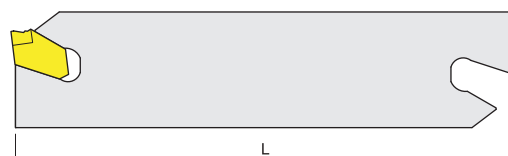
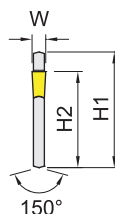
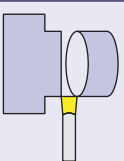


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
NF151.2-26-20	26	21.4	110	2.0	N151.2-200..	SGTBU..-26 SGTBV25-26	ESG-1	0.07
NF151.2-32-20	32	25	150	2.0		SGTBU..-32		0.10

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	
	Non-ferrous metal 非鐵金屬	N		

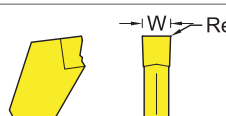
Insert Shape	Description	GRADE 材質		Dimensions,mm		
		Coated 塗層		W	Re	K°
		1125	4125			
	N151.2-200-5E	●		2	0.2	--

XLCFN

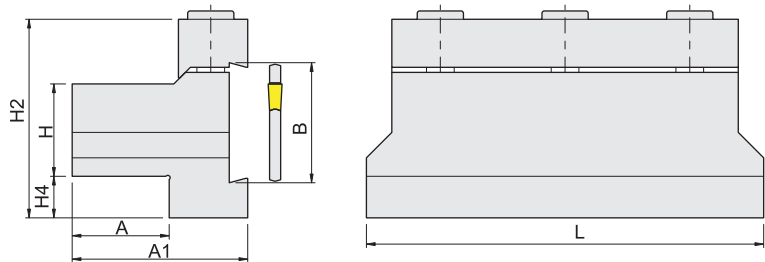


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench 	Weight Kg
	H1	H2	L	W				
XLCFN-2603J-31FX	26	21.4	110	3.1	FX3.1...	SGTBU..-26	ESG-1	0.08
XLCFN-2604J-41FX	26	21.4	110	4.1	FX4.1...	SGTBV25-26		0.10
XLCFN-3203M-31FX	32	25	150	3.1	FX3.1...	SGTBU..-32		0.12
XLCFN-3204M-41FX	32	25	150	4.1	FX4.1...			0.15

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm		
		Coated 塗層		Uncoated 無塗層	W	Re	K°
		GM40	CTPP345				
	FX3.1 NO.15-M1	●			3.1	0.15	--
	FX3.1 NO.15-27P			●	3.1	0.15	--
	FX4.1 NO.20-M1		●		4.1	0.2	--
	FX4.1 NO.15-27P			●	4.1	0.15	--

SGTBU



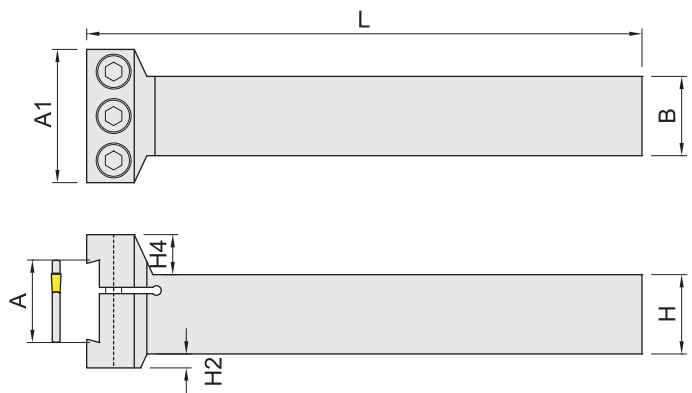
Metric

Item code	Dimensions,mm							Screw	Wrench	BLADE	Weight Kg
	H	B	A	A1	L	H2	H4				
SGTBU 16-26	16	26	17	34	86	43	13	HTM630	PL50	OOOO 26..	0.58
SGTBU 20-26	20	26	21	38	86	43	9				0.66
SGTBU 25-26	25	26	23	40	86	43	4				0.77
SGTBU 20-32	20	32	21	40	110	50	13			OOOO 32..	0.97
SGTBU 25-32	25	32	23	42	110	50	8				1.08

Inch

Item code	Dimensions,mm							Screw	Wrench	BLADE	Weight Kg
	H	B	A	A1	L	H2	H4				
NEW SGTBU 19.05-26	19.05	26	19.05	38	86	43	9.95	HTM630	PL50	OOOO 26..	0.97
NEW SGTBU 25.4-26	25.4	26	25.4	42.4	86	44.5	5.1				1.09
NEW SGTBU 19.05-32	19.05	32	19.05	40	110	50	13.95			OOOO 32..	0.97
NEW SGTBU 25.4-32	25.4	32	25.4	44.4	110	50	7.6				1.08

SGTBV



Item code	Dimensions,mm							Screw	Wrench	BLADE	Weight Kg
	H	B	A	A1	L	H2	H4				
SGTBV 25-26	25	25	26	42	125	4.4	11.6	HTM630	PL50	OOOO 26..	0.76

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

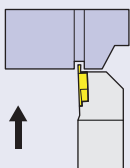
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

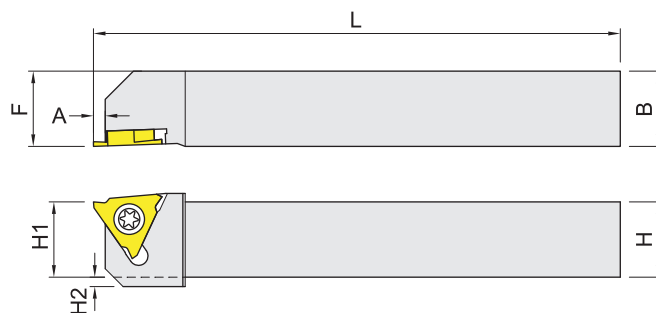
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

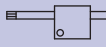
GTBH



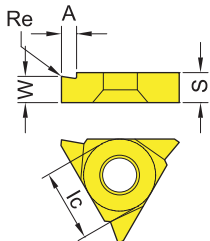
功能：開槽 Grooving



Right-hand shown

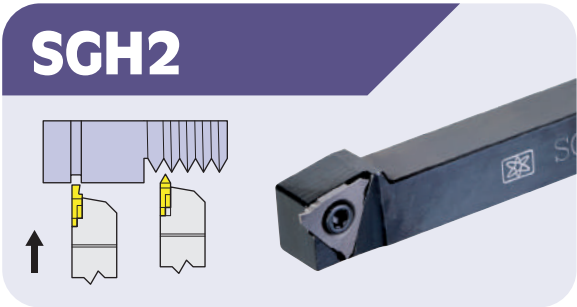
Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	H2	F	A				
GTBHR/L-1010K-30	10	10	125	4	10	3	GTBT... GTCT...	MS4008C	ETF10	0.08
GTBHR/L-1212K-30	12	12	125	2	12	3				0.15
GTBHR/L-1616K-30	16	16	125	--	16	3				0.26
GTBHR/L-2020K-30	20	20	125	--	20	3				0.42

被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	●

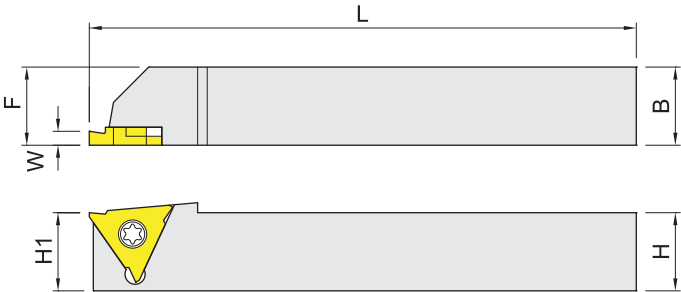
Insert Shape	Description	GRADE 材質	Dimensions,mm				
		Coated 塗層					
		NW948	W	A	Re	Ic	S
 Right-hand	GTBT 14530V5R-U		1.45	3.0	0.05	9.525	3.18
	14530V5L-U						
	15030V5R-U	●	1.50				
	15030V5L-U	●					
	17530V5R-U		1.75				
	17530V5L-U						
	20030V5R-U		2.00				
	20030V5L-U						
	GTCT 25030V5R-U		2.50				
	25030V5L-U						
	30030V5R-E	●	3.00				
	30030V5L-E						

■ 推薦切削條件 Recommended Cutting Conditions

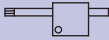
被切削材 Workpiece Material		刀片材質 Insert Grade	切削速度Vc(m/min) Cutting Speed	進給速度f(mm/rev) Feed Rate
P	碳鋼・合金鋼 Carbon Steel / Alloy Steel	NW948	100 (50-150)	0.05 (0.01-0.09)
	快削鋼 Free-Cutting Steel	NW948	110 (30-180)	0.05 (0.01-0.09)
M	不銹鋼 Stainless	NW948	80 (50-120)	0.03 (0.02-0.05)
N	非鐵金屬 Non-Ferrous Metal	NW948	150 (70-230)	0.07 (0.03-0.11)

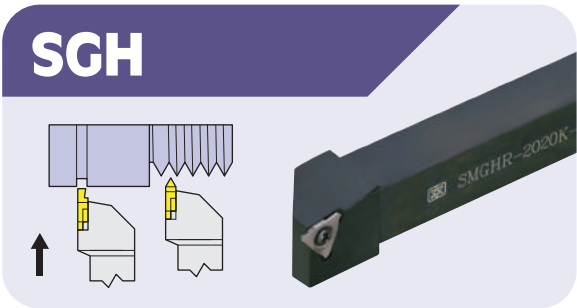


功能：開槽 Grooving / 螺紋 Threading

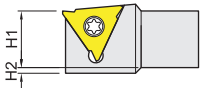
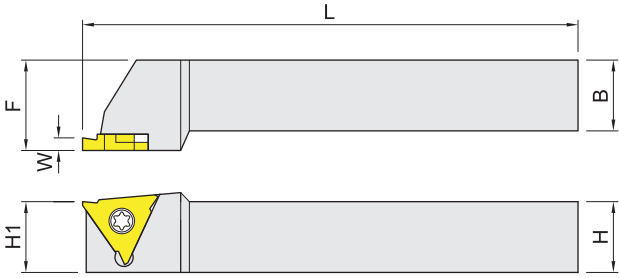


Right-hand shown

Item code	Dimensions,mm				Insert		Screw	Wrench	Weight Kg
	H (H1)	B	L	F	開槽刀片 Grooving	車牙刀片 Threading			
SGH2R-1212K-16	12	12	125	12	SMGTR 16X2... SMGTR 16X2...C	SMTTR 160360..	MS4008C	ETF10	0.15
SGH2R-1616K-16	16	16	125	16					0.26
SGH2R-2020K-16	20	20	125	20					0.42

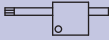


功能：開槽 Grooving / 螺紋 Threading



SGHR-1212K-16

Right-hand shown

Item code	Dimensions,mm					Insert		Screw	Wrench	Weight Kg
	H (H1)	B	L	H2	F	開槽刀片 Grooving	車牙刀片 Threading			
SGHR-1212K-16	12	12	125	2	16	SMGTR 16X2... SMGTR 16X2...C	SMTTR 160360..	MS4008C	ETF10	0.17
SGHR-1616K-16	16	16	125	--	20					0.29
SGHR-2020K-16	20	20	125	--	25					0.45
SGHR-2525M-16	25	25	150	--	32					0.84

※刀片請參考 139 頁 See page 139 for insert.

內徑車刀
BORING BARS

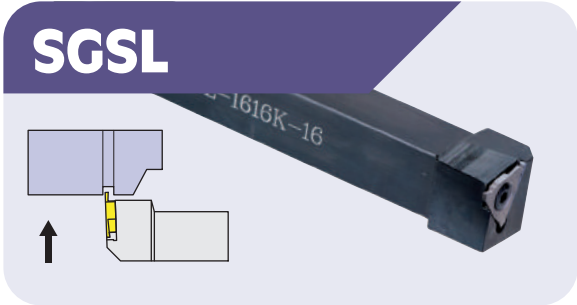
外徑車刀
TOOLHOLDERS

牙刀及開槽刀
THREADING & GROOVING

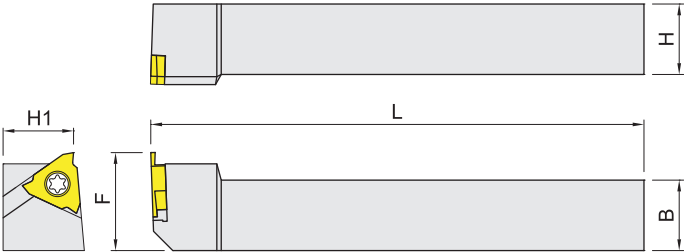
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



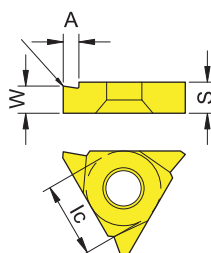
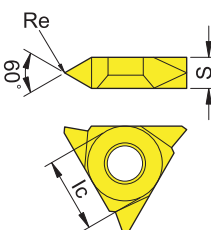
功能：開槽 Grooving / 螺紋 Threading

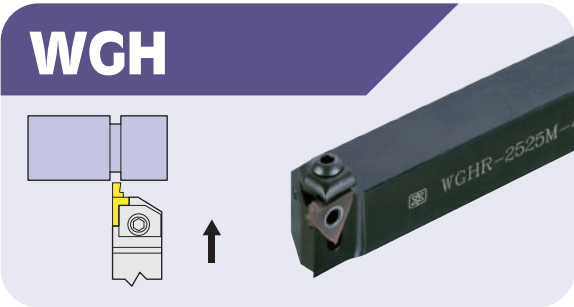


Left-hand shown

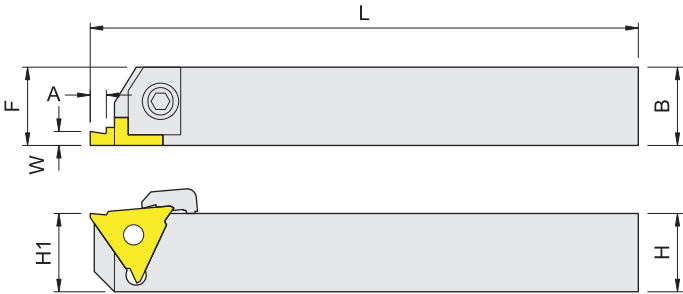
Item code	Dimensions,mm				Insert		Screw	Wrench	Weight Kg
	H (H1)	B	L	F	開槽刀片 Grooving	車牙刀片 Threading			
SGSL-1616K-16	16	16	125	22	SMGTR 16X2...	SMTTR 160360..	MS4008C	ETF10	0.29
SGSL-2020K-16	20	20	125	26	SMGTR 16X2...C				0.45

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K	●	●
	Non-ferrous metal 非鐵金屬	N		

Insert Shape	Description	GRADE 材質		Dimensions,mm						
		Uncoated 無塗層		W	A	Ic	S	Re/Rc	Pitch(mm)	
		NY942	NM936							
	SMGTR 16X2050			0.50	1.5	9.525	2.0	--	--	
	16X2060			0.60				--	--	
	16X2050C	●		0.50				0.05	--	
	16X2060C	●		0.60					--	
	16X2070C	●	●	0.70	2.0				--	
	16X2075C	●		0.75					--	
	16X2080C	●		0.80				0.1	--	
	16X2095C	●		0.95					--	
	16X2100C	●	●	1.00	2.5				--	
	16X2110C	●		1.10					--	
	16X2120C	●	●	1.20					--	
	16X2130C	●		1.30					--	
	SMTTR 16036001		●			9.525	3.18	0.1	1.0-1.5	
	16036002	●				9.525	3.18	0.2	1.75-2.0	



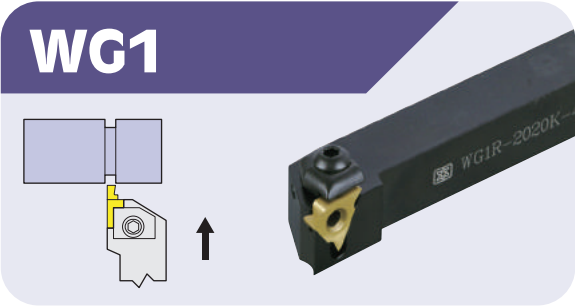
功能：開槽 Grooving



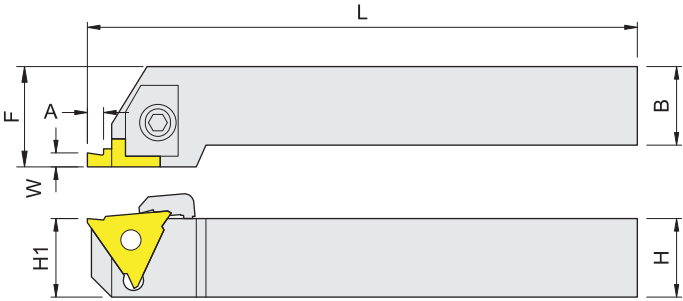
Right-hand shown

Item code	Dimensions,mm					Insert	Clamp	Spring	Screw	Wrench	Weight Kg
	H (H1)	B	L	F	W						
WGHR/L-2020K-3315	20	20	125	20	1.25~2.3	MGTR/L 33125 33400	MTK1R/L	MES3	HTR623	PL40	0.42
WGHR/L-2020K-3323	20	20	125	20	2.3~3.3						0.42
WGHL-2020K-3333	20	20	125	20	3.3~4.0						0.42
WGHL-2525M-3315	25	25	150	25	1.25~2.3						0.78
WGHL-2525M-3323	25	25	150	25	2.3~3.3						0.78
WGHL-2525M-3333	25	25	150	25	3.3~4.0						0.78
WGHR/L-1616K-4315	16	16	125	16	1.25~2.3	MGTR/L 43125 43470	MTK1R/L	MES3	HTR623	PL40	0.27
NEW WGHR-1620K-4315	16	20	125	20	1.25~2.3						0.31
WGHR/L-1616K-4323	16	16	125	16	2.3~3.3						0.27
WGHR/L-2020K-4315	20	20	125	20	1.25~2.3						0.42
WGHR/L-2020K-4323	20	20	125	20	2.3~3.3						0.42
WGHR/L-2020K-4333	20	20	125	20	3.3~4.7						0.42
WGHR/L-2525M-4315	25	25	150	25	1.25~2.3						0.78
WGHR/L-2525M-4323	25	25	150	25	2.3~3.3						0.78
WGHR/L-2525M-4333	25	25	150	25	3.3~4.7						0.78

※刀片與A值 請參考 142 頁 See page 142 for insert & dimension A.



功能：開槽 Grooving

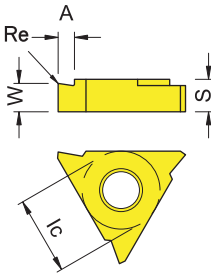
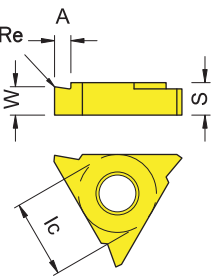


Right-hand shown

Item code	Dimensions,mm					Insert	Clamp	Spring	Screw	Wrench	Weight Kg
	H (H1)	B	L	F	W						
WG1R-1616K-3315	16	16	125	20	1.25~2.3	MGTR 33125 33400	MTK1R	MES3	HTR623	PL40	0.29
WG1R-1616K-3323	16	16	125	20	2.3~3.3						0.29
WG1R-1616K-3333	16	16	125	20	3.3~4.0						0.29
WG1R-2020K-3315	20	20	125	25	1.25~2.3						0.45
WG1R-2020K-3323	20	20	125	25	2.3~3.3						0.45
WG1R-2020K-3333	20	20	125	25	3.3~4.0						0.45
WG1R-2525M-3315	25	25	150	32	1.25~2.3						0.84
WG1R-2525M-3323	25	25	150	32	2.3~3.3						0.84
WG1R-2525M-3333	25	25	150	32	3.3~4.0						0.84
WG1R/L-1616K-4315	16	16	125	20	1.25~2.3	MGTR/L 43125 43470	MTK1R/L	MES3	HTR623	PL40	0.29
WG1R/L-1616K-4323	16	16	125	20	2.3~3.3						0.29
WG1R/L-1616K-4333	16	16	125	20	3.3~4.7						0.29
WG1R/L-2020K-4315	20	20	125	25	1.25~2.3						0.45
WG1R/L-2020K-4323	20	20	125	25	2.3~3.3						0.45
WG1R/L-2020K-4333	20	20	125	25	3.3~4.7						0.45
WG1R/L-2525M-4315	25	25	150	32	1.25~2.3						0.84
WG1R/L-2525M-4323	25	25	150	32	2.3~3.3						0.84
WG1R/L-2525M-4333	25	25	150	32	3.3~4.7						0.84
WG1R/L-3232P-4323	32	32	170	40	2.3~3.3						1.36

※刀片與A值 請參考 142 頁 See page 142 for insert & dimension A.

被切削材 Workpiece material	Steel 鋼	P	●	●	●	●
	Stainless steel 不銹鋼	M	●	●	●	●
	Cast iron 鑄鐵	K	●	●	●	●
	Non-ferrous metal 非鐵金屬	N				

Insert Shape	Description		GRADE 材質				Dimensions,mm				
			Coated 塗層		Uncoated 無塗層						
			GT25		NY942						
			R	L	R	L	W	A	R	lc	S
 Right-hand	MGTR/L	33125					1.25	1.2	0.2	9.525	4.76
		33145					1.45	1.5	0.2	9.525	4.76
		33150			●		1.5	3	0.2	9.525	4.76
		33175			●		1.75	3	0.2	9.525	4.76
		33200			●		2	3	0.2	9.525	4.76
		33230					2.3	3	0.2	9.525	4.76
		33250			●		2.5	3	0.3	9.525	4.76
		33270					2.7	3	0.3	9.525	4.76
		33280					2.8	3	0.3	9.525	4.76
		33300			●		3	3	0.3	9.525	4.76
		33320					3.2	3	0.3	9.525	4.76
		33330					3.3	3	0.3	9.525	4.76
		33350					3.5	3	0.3	9.525	4.76
		33400					4	3	0.3	9.525	4.76
 Right-hand	MGTR/L	43125	●				1.25	1.2	0.2	12.7	4.76
		43145			●		1.45	1.5	0.2	12.7	4.76
		43150	●	●	●		1.5	3	0.2	12.7	4.76
		43175	●				1.75	3	0.2	12.7	4.76
		43200	●		●	●	2	3	0.2	12.7	4.76
		43230	●		●		2.3	3	0.2	12.7	4.76
		43250	●		●		2.5	4.5	0.3	12.7	4.76
		43260					2.6	4.5	0.3	12.7	4.76
		43270	●				2.7	4.5	0.3	12.7	4.76
		43280					2.8	4.5	0.3	12.7	4.76
		43300	●		●		3	4.5	0.3	12.7	4.76
		43320					3.2	4.5	0.3	12.7	4.76
		43330			●		3.3	4.5	0.3	12.7	4.76
		43350					3.5	4.5	0.3	12.7	4.76
		43400	●				4	4.5	0.3	12.7	4.76
		43420					4.2	4.5	0.4	12.7	4.76
		43430					4.3	4.5	0.4	12.7	4.76
		43450	●				4.5	4.5	0.4	12.7	4.76
		43470					4.7	4.5	0.4	12.7	4.76

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

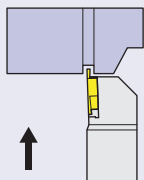
牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

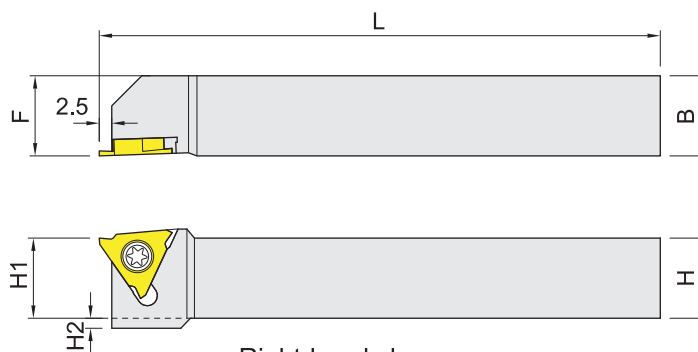
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

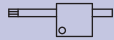
KTGF_F



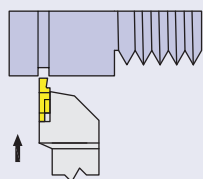
功能：開槽 Grooving



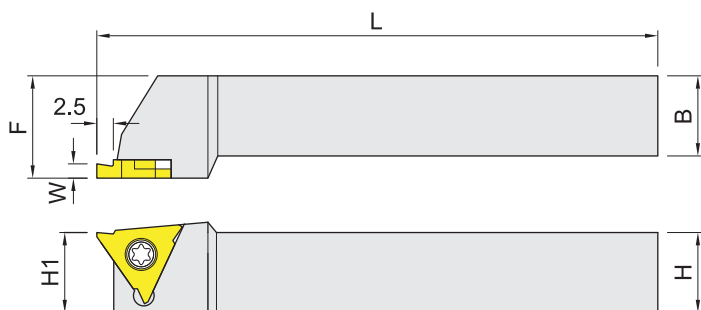
Right-hand shown

Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	H2	F				
KTGFR/L-1010K-16F	10	10	125	4	10	TGF32R/L..	MS4009A	ETF15	0.10
KTGFR-1012K-16F	10	12	125	2	12		MS4011A		0.14
KTGFR/L-1212K-16F	12	12	125	2	12				0.15
KTGFR/L-1616K-16F	16	16	125	--	16				0.27
KTGFR-2020K-16F	20	20	125	--	20				0.42

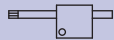
KTGF



功能：開槽 Grooving



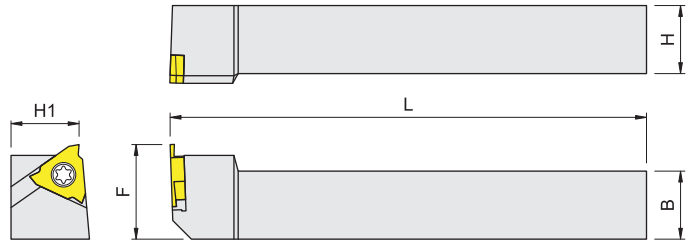
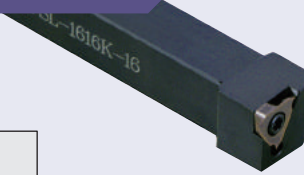
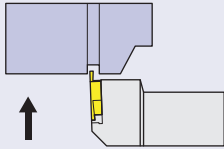
Right-hand shown

Item code	Dimensions,mm				Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F				
KTGFR/L-1616K-16	16	16	125	20	TGF32R/L..	MS4011A	ETF15	0.30
KTGFR/L-2020K-16	20	20	125	25				0.45
KTGFR/L-2525M-16	25	25	150	32				0.78

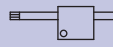
外徑切槽刀 EXTERNAL GROOVING TOOLHOLDERS



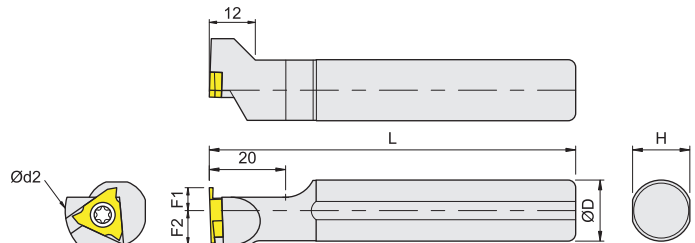
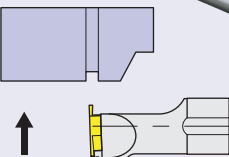
KTGFS



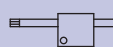
Left-hand shown

Item code	Dimensions,mm				Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F				
KTGFSL-1616K-16	16	16	125	22	TGF32R..	MS4009A	ETF15	0.29
KTGFSL-2020K-16	20	20	125	26				0.45

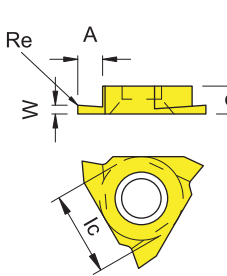
KTGFL



Left-hand shown

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	D	L	H	F1	F2	d2				
S16H-KTGFL-16	16	100	15	6	9	27	TGF32R..	MS4009A	ETF15	0.16

被切削材 Workpiece material	Steel 鋼	P	●	
	Stainless steel 不銹鋼	M	●	
	Cast iron 鑄鐵	K		●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm				
		Coated 塗層	Uncoated 無塗層	W	A	Ic	S	Re
		PR930	KW10					
	TGF 32R033-005	○		0.33	0.8	9.525	3.18	0.05
	32R050-005	●		0.50	1.2	9.525	3.18	0.05
	32R075-010	●		0.75	2.0	9.525	3.18	0.1
	32R095-010	●		0.95	2.0	9.525	3.18	0.1
	32R100-010	●		1.00	2.0	9.525	3.18	0.1
	32R125-010	●		1.25	2.0	9.525	3.18	0.1
	32R145-010	○		1.45	2.0	9.525	3.18	0.1
	32R150-010	●	●	1.50	2.0	9.525	3.18	0.1
	32R175-010	●		1.75	2.0	9.525	3.18	0.1
	32R200-010	●	●	2.00	2.5	9.525	3.18	0.1
	32R250-010	●		2.50	2.5	9.525	3.18	0.1

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

內徑車刀
BORING BARS

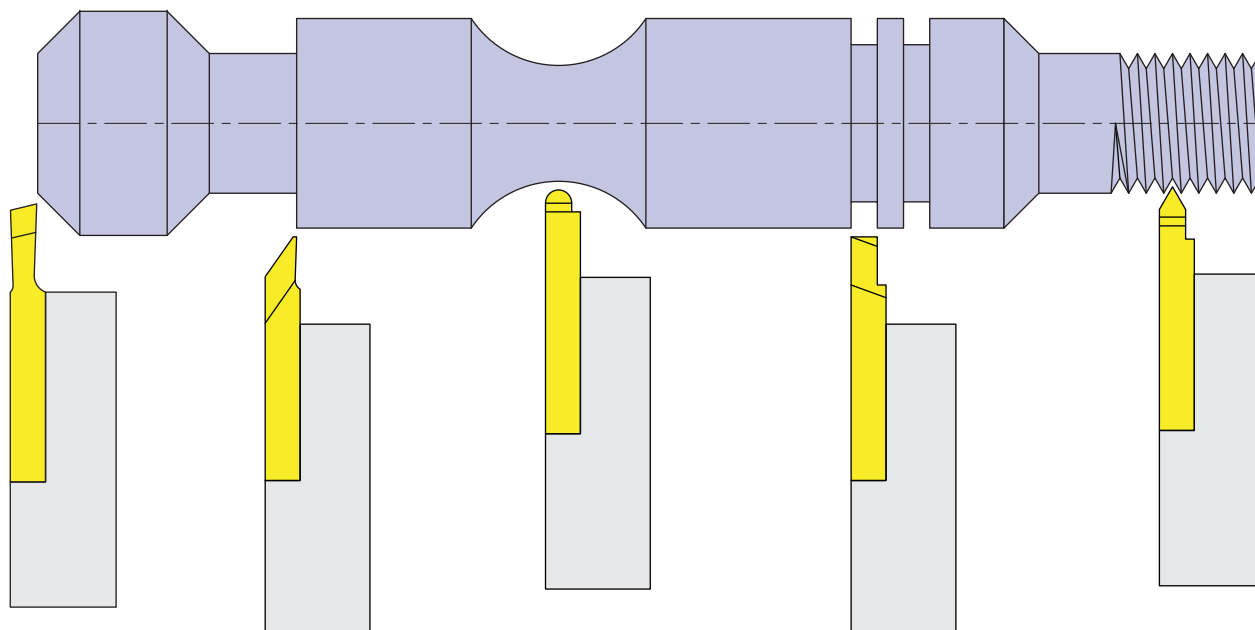
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

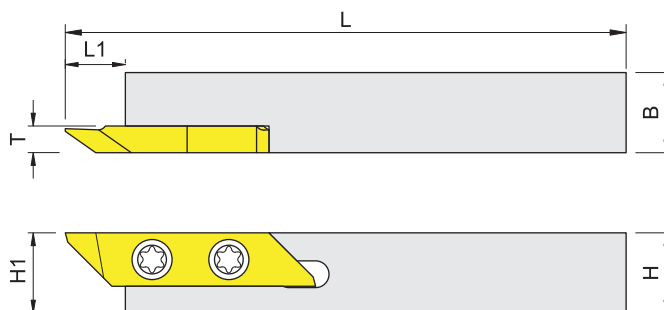
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

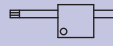
配件
SPARE PARTS



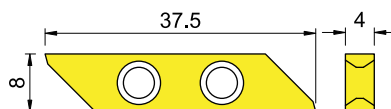
功能：開槽 Grooving and turning / 螺紋 Threading
切斷 Parting off / 後掃 Back turning



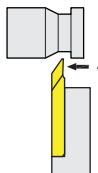
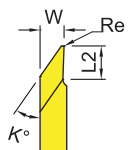
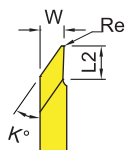
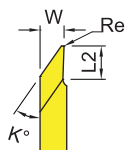
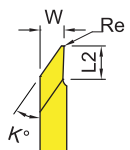
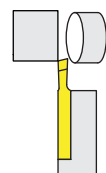
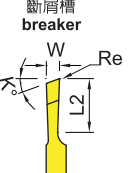
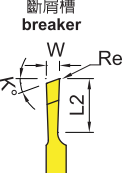
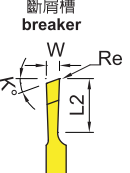
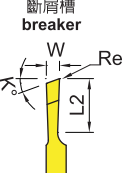
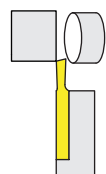
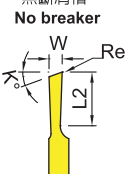
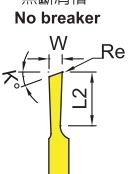
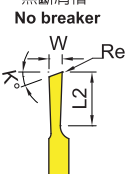
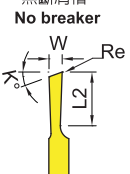
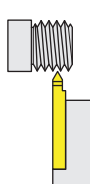
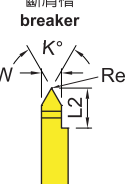
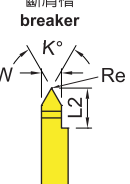
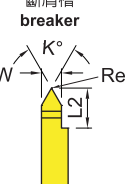
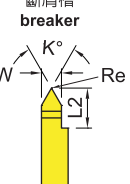
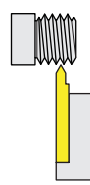
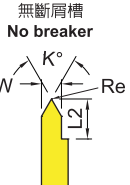
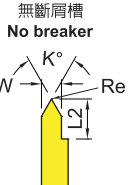
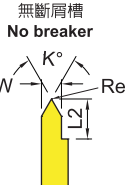
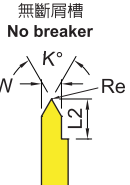
Right-hand shown

Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	L1	T				
SAKGR/L-1010K-374	10	10	125	9	4	AK..3..	MS3509A	ETF15	0.10
SAKGR/L-1212K-374	12	12	125	9	4				0.14
SAKGR/L-1212M-374	12	12	150	9	4				0.17
SAKGR/L-1616M-374	16	16	150	9	4				0.30
SAKGR/L-2020K-374	20	20	125	9	4				0.39
SAKGR/L-2525M-374	25	25	150	9	4				0.74

Insert Shape



被切削材 Workpiece material	Steel 鋼	P	●	●	●	
	Stainless steel 不銹鋼	M	●	●	●	
	Cast iron 鑄鐵	K	●	●	●	
	Non-ferrous metal 非鐵金屬	N				●

Insert Shape	Description	GRADE 材質				Dimensions,mm				
		Coated 塗層		Uncoated 無塗層		W	Re/Rc	L2	K	Pitch (mm)
		GT25	GN35	GA45	GX02					
 後掃刀片 Back turning	 AKBR-32010	●	●		●	2.0	0.1	5	35	--
	 AKBR-32020	●	●		●	2.0	0.2	5	35	--
	 AKBR-33010	●	●		●	3.0	0.1	5	35	--
	 AKBR-33020	●	●			3.0	0.2	5	35	--
 切斷刀片 Parting off	 AKCR-3150-R85	●	●	○	○	1.5	0.1	8.5	15	--
	 AKCR-3200-R90	●	●		●	2.0	0.1	9.0	15	--
	 AKCR-3250-R90	●	●			2.5	0.1	9.0	15	--
	 AKCR-3300-R90	●	●			3.0	0.1	9.0	15	--
 切斷刀片 Parting off	 AKPR-3150-R85	●	●		●	1.5	0.1	8.5	15	--
	 AKPR-3200-R90	●	●		●	2.0	0.1	9.0	15	--
	 AKPR-3250-R90	●	●		●	2.5	0.1	9.0	15	--
	 AKPR-3300-R90	●	●		●	3.0	0.1	9.0	15	--
 牙刀片 Threading	 AKTR-3205505-N	●				2.0	0.05	6	55	0.05-2
	 AKTR-3305510-N	●		○	●	3.0	0.1	6	55	0.1-3
	 AKTR-3206005-N	●	●		●	2.0	0.05	6	60	0.05-2
	 AKTR-3306010-N	●	●	○	●	3.0	0.1	6	60	0.1-3
 牙刀片 Threading	 AKTR-3205505-NP	●			●	2.0	0.05	6	55	0.05-2
	 AKTR-3305510-NP	●		○	●	3.0	0.1	6	55	0.1-3
	 AKTR-3206005-NP	●	●		●	2.0	0.05	6	60	0.05-2
	 AKTR-3306010-NP	●	●	○	●	3.0	0.1	6	60	0.1-3

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

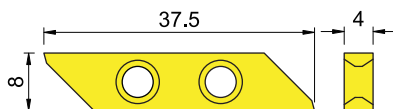
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

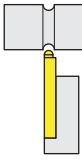
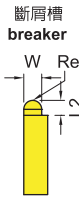
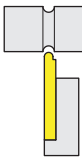
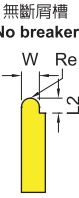
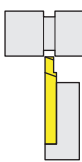
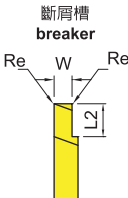
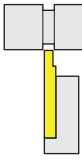
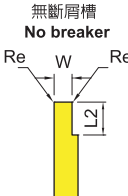
孔加工
BORING TOOLS COMPONENTS

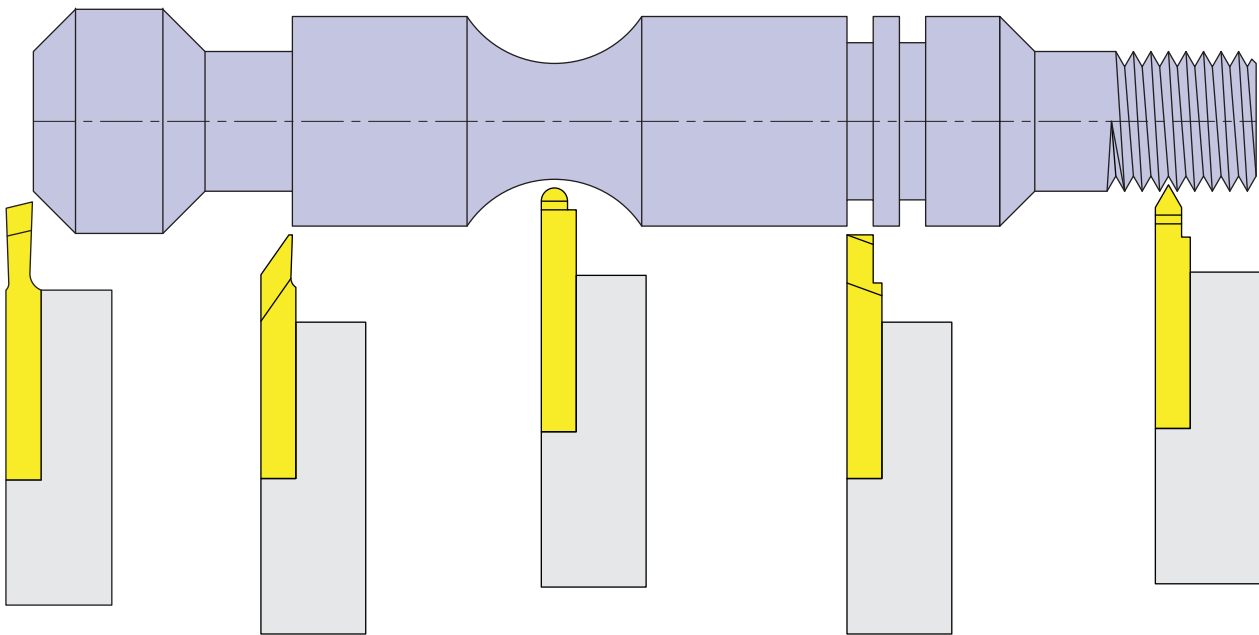
配件
SPARE PARTS

Insert Shape

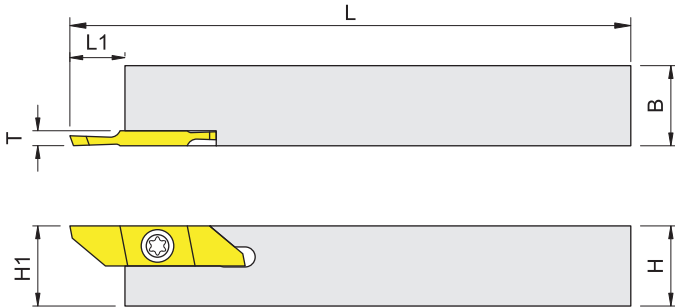


被切削材 Workpiece material	Steel 鋼	P	●	●	●	
	Stainless steel 不銹鋼	M	●	●	●	
	Cast iron 鑄鐵	K	●	●	●	
	Non-ferrous metal 非鐵金屬	N				●

Insert Shape		Description	GRADE 材質				Dimensions,mm			
			Coated 塗層			Uncoated 無塗層				
			GT25	GN35	GA45	GX02	W	Re/Rc	L2	K
 圓槽刀片 Insert with radius		AKRR-3050R30	●		●	●	1.0	0.5	3.0	
		AKRR-3075R50	●		●	●	1.5	0.75	5.0	
		AKRR-3100R50	●		●	●	2.0	1.0	5.0	
		AKRR-3125R50	●		●	●	2.5	1.25	5.0	
		AKRR-3150R80	●		●	●	3.0	1.5	8.0	
 圓槽刀片 Insert with radius		AKRR-3050R30P	●		○	●	1.0	0.5	3.0	
		AKRR-3075R50P	●		○	●	1.5	0.75	5.0	
		AKRR-3100R50P	●		○	●	2.0	1.0	5.0	
		AKRR-3125R50P	●				2.5	1.25	5.0	
		AKRR-3150R80P	●		○	●	3.0	1.5	8.0	
		AKRR-3200R80P	●				4.0	2	8.0	
 插掃刀片 Grooving and turning		AKGR-3100-0130	●		●		1.0	0.1	3.0	
		AKGR-3150-0130	●		●	●	1.5	0.1	3.0	
		AKGR-3150-0250	●		○	○	1.5	0.2	5.0	
		AKGR-3150-0270	●		●	○	1.5	0.2	7.0	
		AKGR-3200-0150	●			●	2.0	0.1	5.0	
		AKGR-3200-0250	●		●	○	2.0	0.2	5.0	
		AKGR-3200-0270	●	●	○	●	2.0	0.2	7.0	
		AKGR-3200-0290	●	●	○	●	2.0	0.2	9.0	
		AKGR-3250-0150	●		●	●	2.5	0.1	5.0	
		AKGR-3250-0250	●	●	○	●	2.5	0.2	5.0	
		AKGR-3250-0290	●		●	●	2.5	0.2	9.0	
		AKGR-3300-0150	●	●			3.0	0.1	5.0	
		AKGR-3300-0190	●		●	●	3.0	0.1	9.0	
		AKGR-3300-0250	●		●	●	3.0	0.2	5.0	
		AKGR-3300-0270	●				3.0	0.2	7.0	
AKGR-3300-0290	●	●	○	○	3.0	0.2	9.0			
 插掃刀片 Grooving and turning		AKGR-3100-0230P	●		●	○	1.0	0.2	3.0	
		AKGR-3100-0250P	○		●	○	1.0	0.2	5.0	
		AKGR-3150-0250P	○		●		1.5	0.2	5.0	
		AKGR-3150-0270P	●			●	1.5	0.2	7.0	
		AKGR-3200-0250P	●		●	●	2.0	0.2	5.0	
		AKGR-3200-0270P	●			●	2.0	0.2	7.0	
		AKGR-3200-0290P	●		●	○	2.0	0.2	9.0	
		AKGR-3250-0250P	●				2.5	0.2	5.0	
		AKGR-3300-0250P	●				3.0	0.2	5.0	
		AKGR-3300-0270P	●		○	●	3.0	0.2	7.0	
		AKGR-3300-0290P	●		●	●	3.0	0.2	9.0	



功能：開槽 Grooving and turning / 螺紋 Threading
切斷 Parting off / 後掃 Back turning



Right-hand shown

Item code	Dimensions,mm					Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	L1	T				
SDKGR/L-1010K-353	10	10	125	11	3	DK..3..	MS4009A	ETF15	0.10
SDKGR/L-1212M-353	12	12	150	11	3				0.17
SDKGR/L-1616M-353	16	16	150	11	3				0.30
SDKGR/L-2020K-353	20	20	125	11	3				0.42
SDKGR/L-2525M-353	25	25	150	11	3				0.74
SDKGR/L-1010K-354	10	10	125	11	4	DK..4..	MS4009A MS4011A	ETF15	0.10
SDKGR/L-1212M-354	12	12	150	11	4				0.17
SDKGR/L-1616M-354	16	16	150	11	4				0.30
SDKGR/L-2020K-354	20	20	125	11	4				0.42
SDKGR/L-2525M-354	25	25	150	11	4				0.74

內徑車刀
BORING
TOOL

外徑車刀
TOOLHOLDERS

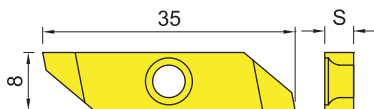
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

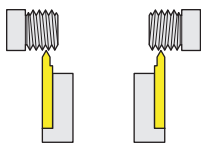
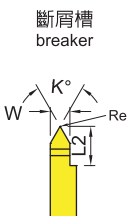
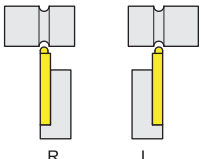
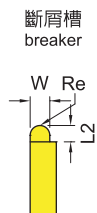
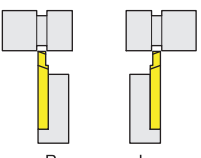
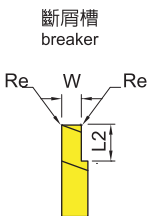
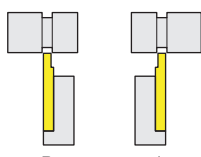
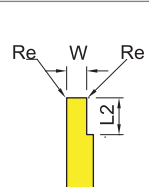
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

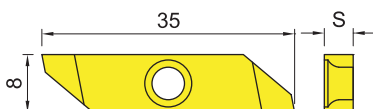
Insert Shape



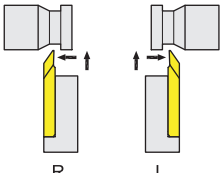
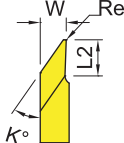
被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K	●	●	
	Non-ferrous metal 非鐵金屬	N			●

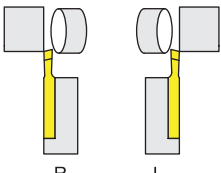
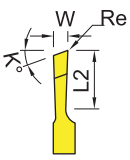
Insert Shape		Description	GRADE 材質			Dimensions,mm					
			Coated 塗層		Uncoated 無塗層	S	W	Re/Rc	L2	K	Pitch (mm)
			GT29	GA49	GX06						
 牙刀片 Threading		DKTR-4305510	●	○	●	4	3.0	0.1	6	55	0.1-3
		DKTR-4206005	●	○	●	4	2.0	0.05	6	60	0.05-2
		DKTR-4306010	●	○	●	4	3.0	0.1	6	60	0.1-3
		DKTL-4206005	●	○	●	4	2.0	0.05	6	60	0.05-2
		DKTL-4306010	●	○	●	4	3.0	0.1	6	60	0.1-3
		DKTL-4306020				4	3.0	0.2	6	60	0.2-3
 圓槽刀片 Insert with radius		DKRR-4050R25	●	○	●	4	1.0	0.50	2.5		
		DKRR-4075R50	●	○	●		1.5	0.75	5.0		
		DKRR-4100R60	●	○	●		2.0	1.00	6.0		
		DKRR-4125R80	●	○	●		2.5	1.25	8.0		
		DKRR-4150R80	●	○	●		3.0	1.50	8.0		
		DKRR-4175RA0	●	○	●	3.5	1.75	10.0			
		DKRR-4200RA0	●	○	●	4.0	2.00	10.0			
		DKRL-4050R25	●	○	●	4	1.0	0.50	2.5		
		DKRL-4075R50	●	○	●		1.5	0.75	5.0		
		DKRL-4100R60	●	○	●		2.0	1.00	6.0		
		DKRL-4125R80	●	○	●		2.5	1.25	8.0		
		DKRL-4150R80	●	○	●		3.0	1.50	8.0		
		DKRL-4175RA0	●	○	●	3.5	1.75	10.0			
		DKRL-4200RA0	●	○	●	4.0	2.00	10.0			
 插掃刀片 Grooving and turning		DKGR-4100-1025	●		●	4	1.0	0.1	2.5		
		DKGR-4150-1030	●	○	●		1.5	0.1	3.0		
		DKGR-4200-1040	●		●		2.0	0.1	4.0		
		DKGR-4250-1060	●		●		2.5	0.1	6.0		
		DKGR-4300-1080	●	○	●		3.0	0.1	8.0		
		DKGL-4100-1025	●	○	●	4	1.0	0.1	2.5		
		DKGL-4150-1030	●	○	●		1.5	0.1	3.0		
		DKGL-4200-1040	●	○	●		2.0	0.1	4.0		
		DKGL-4250-1060	●	○	●			2.5	0.1	6.0	
		DKGL-4300-1080		○	●		3.0	0.1	8.0		
 插掃刀片 Grooving and turning		DKGR-4100-1025P	●	○		4	1.0	0.1	2.5		
		DKGR-4150-1030P	●	○			1.5	0.1	3.0		
		DKGR-4200-1040P	●	○			2.0	0.1	4.0		
		DKGR-4250-1060P	●	○			2.5	0.1	6.0		
		DKGR-4300-1080P	●				3.0	0.1	8.0		

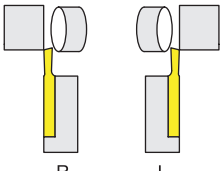
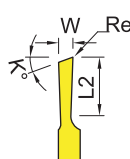
Insert Shape



被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K	●	●	
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm					
		Coated 塗層		Uncoated 無塗層	S	W	Re/Rc	L2	K	
		GT29	GA49	GX06						
 後掃刀片 Back turning		DKBR-33005	●	○	●	3	3.0	0.05	8.5	35
		DKBR-33010	●	○	●			0.1		
		DKBR-33020	●	○	●			0.2		
		DKBR-43005	●	○	●	4	3.0	0.05	8.5	35
		DKBR-43010	●	○	●			0.1		
		DKBR-43020	●	○	●			0.2		
		DKBR-44005	●	○	●	4	4.0	0.05	8.5	35
		DKBR-44010	●	○	●			0.1		
		DKBR-44020	●	○	●			0.2		
		DKBL-33005	●	○	●	3	3.0	0.05	8.5	35
		DKBL-33010	●	○	●			0.1		
		DKBL-33020	●	○	●			0.2		
		DKBL-43005	●	○	●	4	3.0	0.05	8.5	35
		DKBL-43010	●	○	●			0.1		
		DKBL-43020	●	○	●			0.2		
		DKBL-44005	●	○	●	4	4.0	0.05	8.5	35
		DKBL-44010	●	○	●			0.1		
		DKBL-44020	●	○	●			0.2		

 切斷刀片 Parting off	 斷屑槽 breaker	DKCR-3150R-1085	●	●	●	3	1.5	0.1	8.5	15
		DKCR-3200R-10A5	●	●	●		2.0			
		DKCR-3250R-10A5	●	●	●		2.5			
		DKCR-3300R-10A5	●	●	●		3.0			
		DKCL-3150L-1085	●	○	●	3	1.5	0.1	8.5	15
		DKCL-3200L-10A5	●	○	●		2.0			
		DKCL-3250L-10A5	●	○	●		2.5			
		DKCL-3300L-10A5	●	○	●		3.0			

 切斷刀片 Parting off	 無斷屑槽 No breaker	DKPR-3150R-1085	●	○	●	3	1.5	0.1	8.5	15
		DKPR-3200R-10A5	●	○	●		2.0			
		DKPR-3250R-10A5	●	○	●		2.5			
		DKPR-3300R-10A5	●	○	●		3.0			
		DKPL-3150L-1085	●	○	●	3	1.5	0.1	8.5	15
		DKPL-3200L-10A5	●	○	●		2.0			
		DKPL-3250L-10A5	●	○	●		2.5			
		DKPL-3300L-10A5	●	○	●		3.0			

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

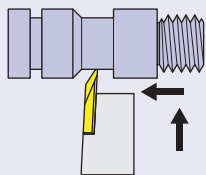
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

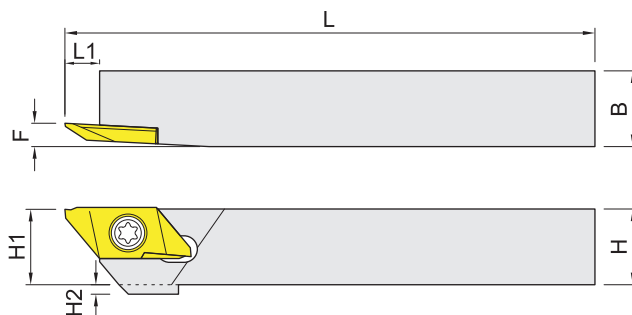
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

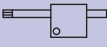
BTAH



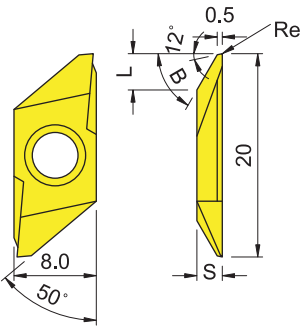
功能：後掃 Back turning



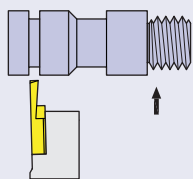
Right-hand shown

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	L1	F	H2				
BTAHR/L-1010K-50	10	10	125	5.5	3.5	2	BTAT5528..R/L-B BTAT6035..R/L-B	MS4009A	ETF15	0.10
BTAHR/L-1212K-50	12	12	125	5.5	3.5	--		MS4011A		0.14
BTAHR/L-1616K-50	16	16	125	5.5	3.5	--				0.25

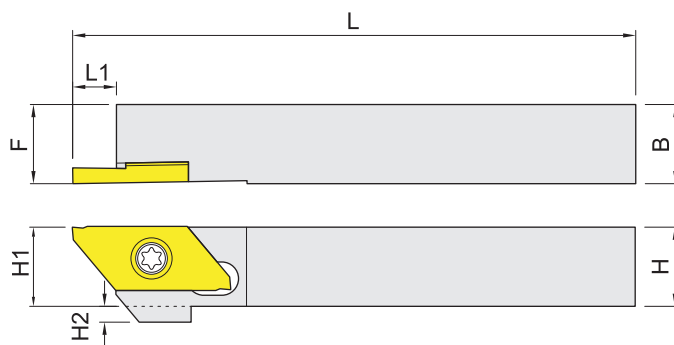
被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	

Insert Shape	Description	GRADE 材質	Dimensions,mm			
		Coated 塗層				
		NW948	B	L	S	Re
 Right hand	BTAT552800R-B		55°	2.8	2.5	0.0
	BTAT552801R-B	●	55°	2.8	2.5	0.1
	BTAT603500R-B		60°	3.5	2.5	0.0
	BTAT603501R-B	●	60°	3.5	2.5	0.1
	BTAT653501L-B	●	60°	3.5	2.5	0.1
	BTBT604500R-B	●	60°	4.5	2.5	0.0
	BTBT604501R-B	●	60°	4.5	2.5	0.1

CTAH



功能：開槽 Grooving and turning / 切斷 Parting off



Right-hand shown

內徑車刀
BORING BARS

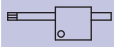
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

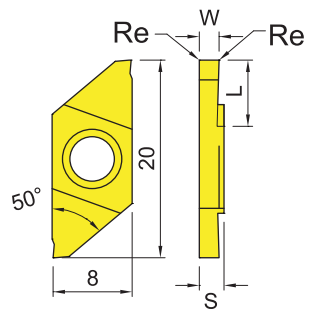
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

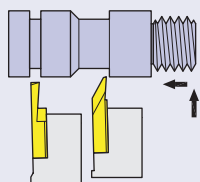
配件
SPARE PARTS

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	L1	F	H2				
CTAHR-1010K-120	10	10	125	5.5	10	2	CTAT.....	MS4009A	ETF15	0.10
CTAHR-1212K-120	12	12	125	5.5	12	--		MS4011A		0.14
CTAHR/L-1616K-120	16	16	125	5.5	16	--				0.25
CTAHR/L-2020K-120	20	20	125	5.5	20	--				0.42

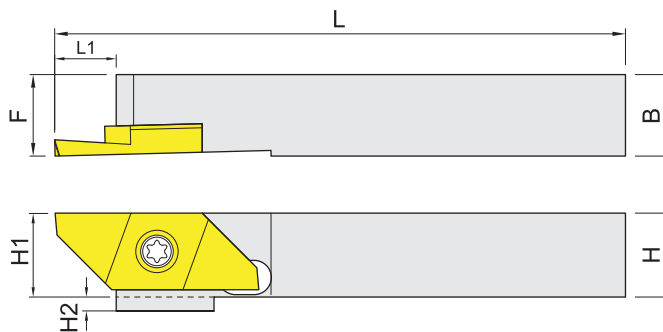
被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	

Insert Shape	Description	GRADE 材質	Dimensions,mm			
		Coated 塗層				
		NW948	W	L	S	Re
 Right hand	CTAT1012V5RN-B	●	1.0	6.7	2.5	0.05
	CTAT1512V5RN-B	●	1.5	6.7	2.5	0.05
	CTAT2012V5RN-B	●	2.0	6.7	2.5	0.05
	CTAT2012V5LN-B	●	2.0	6.7	2.5	0.05

CTBHR



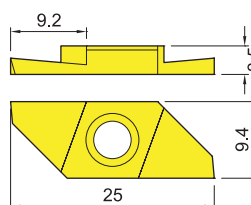
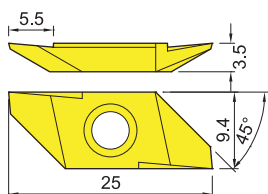
功能：開槽 Grooving and turning / 切斷 Parting off
後掃 Back turning



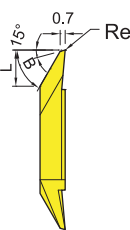
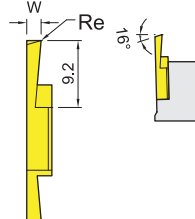
Right-hand shown

Item code	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	L1	F	H2				
CTBHR-1010K-160	10	10	125	7.5	10	2	BTBT604500R-B CTBT20160V5RR-B	MS4009A	ETF15	0.10
CTBHR-1212K-160	12	12	125	7.5	12	--		MS4011A		0.14
CTBHR-1616K-160	16	16	125	7.5	16	--				0.25
CTBHR-2020K-160	20	20	125	7.5	20	--				0.39

Insert Shape

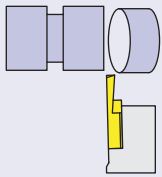


被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	●
	Non-ferrous metal 非鐵金屬	N	

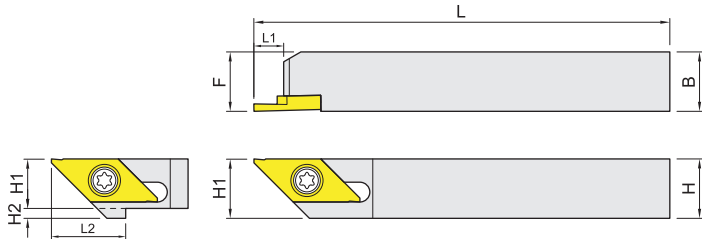
Insert Shape	Description	GRADE 材質	Dimensions,mm			
		Coated 塗層	B	W	Re	L※
		NW948				
	BTBT604500R-B	●	60°	--	0.00	4.5
	BTBT604501R-B	●	60°	--	0.10	4.5
	CTBT15160V5RR-B	●	--	1.5	0.05	--
	CTBT20160V5RR-B	●	--	2.0	0.05	--

※L表示安裝在刀柄上時的數值(※L 4.5mm is the value when set the insert on the holder.)

KTKF



功能：切斷 Parting off



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

NEW

NEW

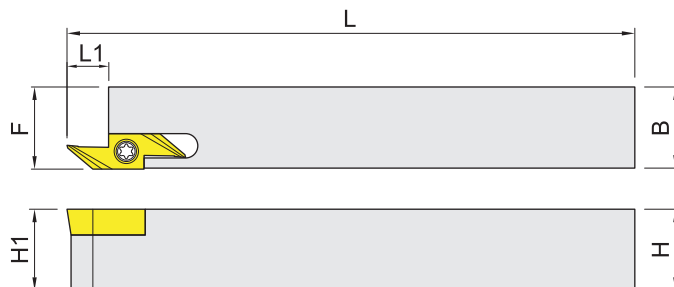
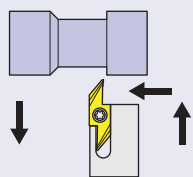
NEW

Item code	Dimensions,mm							Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	F	L1	L2	H2				
KTKFR/L-1010K-12A	10	10	125	10	6	15	2	TKF12R/L..	MS4509TRV	ETF10	0.10
KTKFR/L-1212M-12	12	12	150	12	6	--	--				0.17
KTKFR/L-1616K-12	16	16	125	16	6	--	--				0.25
KTKFR-1010K-16	10	10	125	10	8	29	2	TKF16R/L..	MS4509TRV	ETF10	0.10
KTKFR/L-1010K-16A	10	10	125	10	8	20	2				0.10
KTKFR/L-1212M-16	12	12	150	12	8	--	--				0.17
KTKFR/L-1616K-16	16	16	125	16	8	--	--	TKF16R/L..	MS4509TRV	ETF10	0.25
KTKFR/L-2020K-16	20	20	125	20	8	--	--				0.39
KTKFR/L-2525M-16	25	25	150	25	8	--	--				0.74

被切削材 Workpiece material	Steel 鋼	P	●
	Stainless steel 不銹鋼	M	●
	Cast iron 鑄鐵	K	
	Non-ferrous metal 非鐵金屬	N	

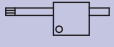
Insert Shape	Description	GRADE 材質	Dimensions,mm					
		Coated 塗層	W	A	K	H	S	Re
		PR1025						
 Right hand	TKF12R050-S-16DR		0.5	2.5	16	8.7	3	0.03
	TKF12R070-S-16DR	●	0.7	4	16	8.7	3	0.03
	TKF12R100-S-16DR	●	1.0	6	16	8.7	3	0.03
	TKF12R150-S-16DR	●	1.5	6	16	8.7	3	0.03
	TKF12L150-S-16DR	●	1.5	6	16	8.7	3	0.03
	TKF12R200-S-16DR		2.0	6	16	8.7	3	0.03
 Right hand	TKF16R150-S-16DR		1.5	8	16	9.5	4	0.05
	TKF16R200-S-16DR	●	2.0	8	16	9.5	4	0.05
	TKF16L200-S-16DR	●	2.0	8	16	9.5	4	0.05

SAB_R

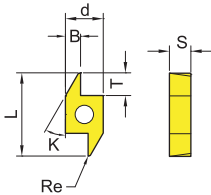
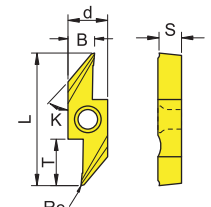


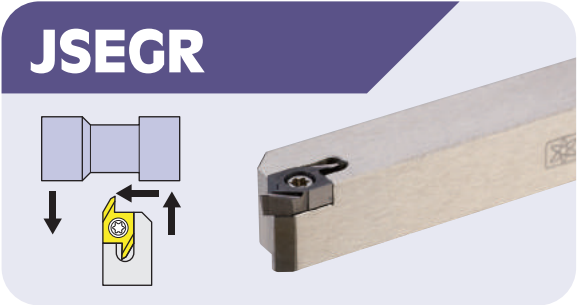
功能：後掃 Back turning

Right-hand shown

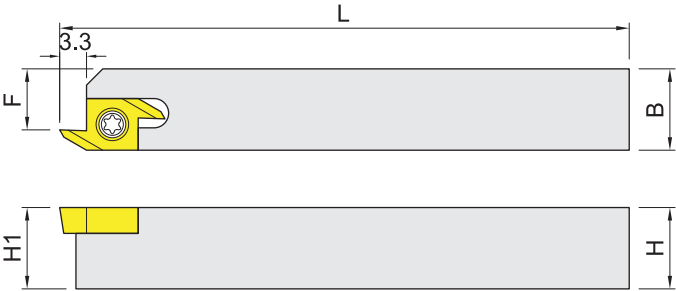
Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F	L1				
SABSR-1010K-40F	10	10	125	10.2	4.2	ABS15R..	MS3008A	ETF09	0.10
SABSR-1212K-40F	12	12	125	12.2	4.2				0.14
SABSR-1616K-40F	16	16	125	16.2	4.2				0.25
SABWR-0810K-40F	8	10	125	10.2	4.2	ABW15R..	MS3008B	ETF09	0.08
SABWR-1010K-40F	10	10	125	10.2	4.2				0.10
SABWR-1212K-40F	12	12	125	12.2	4.2				0.14
SABWR-1616K-40F	16	16	125	16.2	4.2				0.25
SABWR-2020K-40F	20	20	125	20.2	4.2				0.39
SABWR-2525M-40F	25	25	150	25.2	4.2				0.74
SABWR-1010K-50F	10	10	125	10.2	8.2	ABW23R..	MS3008A	ETF09	0.10
SABWR-1212K-50F	12	12	125	12.2	8.2				0.14
SABWR-1616K-50F	16	16	125	16.2	8.2				0.25
SABWR-2020K-50F	20	20	125	20.2	8.2				0.39
SABWR-2525M-50F	25	25	150	25.2	8.2				0.74

被切削材 Workpiece material	Steel 鋼	P	●	●	
	Stainless steel 不銹鋼	M	●	●	
	Cast iron 鑄鐵	K			●
	Non-ferrous metal 非鐵金屬	N			●

Insert Shape	Description	GRADE 材質			Dimensions,mm						
		Coated 塗層		Uncoated 無塗層	B	T	K	L	d	S	Re
		PR930	TC60M								
	ABS15R4005				2.8	4.2	30	15.4	7	3.97	0.05
	ABS15R4015		●		2.8	4.2	30	15.4	7	3.97	0.15
	ABW15R4005		●		4.7	4.2	45	15.4	7	3.97	0.05
	ABW15R4015				4.7	4.2	45	15.4	7	3.97	0.15
	ABW23R5005		●		4.7	8.2	40	23.4	7	3.97	0.05
	ABW23R5015	●		●	4.7	8.2	40	23.4	7	3.97	0.15



功能：後掃 Back turning



Right-hand shown

Item code	Dimensions,mm				Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	F				
JSEGR-1010H-10	10	10	100	7.5	J10ER..B..	MS2506A	ETF09	0.08
JSEGR-1010K-10	10	10	125	7.5				0.10
JSEGR-1212H-10	12	12	100	9.5				0.11
JSEGR-1212K-10	12	12	125	9.5				0.14

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M	●	●
	Cast iron 鑄鐵	K		●
	Non-ferrous metal 非鐵金屬	N		●

Insert Shape	Description	GRADE 材質		Dimensions,mm		
		Coated 塗層	Uncoated 無塗層	d	S	Re
		NS530	TH10			
	J10ER 005BF			6.35	3.18	0.05
	J10ER 010BF	●		6.35	3.18	0.10
	J10ER 015BF			6.35	3.18	0.15

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

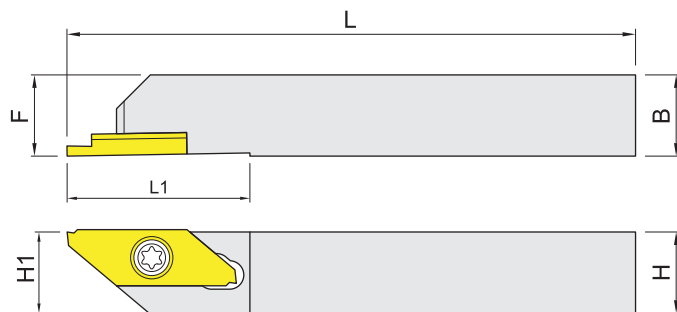
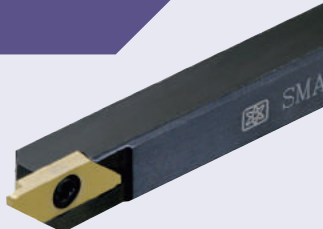
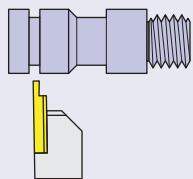
牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

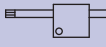
配件
SPARE PARTS

SMALR

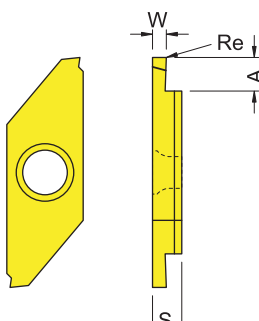


功能：開槽 Grooving and turning / 螺紋 Threading
切斷 Parting off / 後掃 Back turning

Right-hand shown

Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	L1	F				
SMALR-1010K-3	10	10	125	27	10	MAGR3..	MS4009A	ETF15	0.10
SMALR-1212K-3	12	12	125	27	12		MS4011A		0.14
SMALR-1616K-3	16	16	125	27	16				0.25
SMALR-2020K-3	20	20	125	27	20				0.39

被切削材 Workpiece material	Steel 鋼	P	●	●
	Stainless steel 不銹鋼	M		●
	Cast iron 鑄鐵	K		
	Non-ferrous metal 非鐵金屬	N		

Insert Shape	Description	GRADE 材質		Dimensions,mm			
		Coated 塗層		W	A	S	Re
		1025	GA46				
	MAGR3050			0.50	1.3	3.18	0.05
	MAGR3075			0.75	2.5	3.18	0.05
	MAGR3100			1.00	2.7	3.18	0.05
	MAGR3125			1.25	2.7	3.18	0.05
	MAGR3150		●	1.50	3.7	3.18	0.05
	MAGR3175			1.75	3.7	3.18	0.05
	MAGR3200			2.00	3.7	3.18	0.05
	MAGR3250			2.50	3.7	3.18	0.05