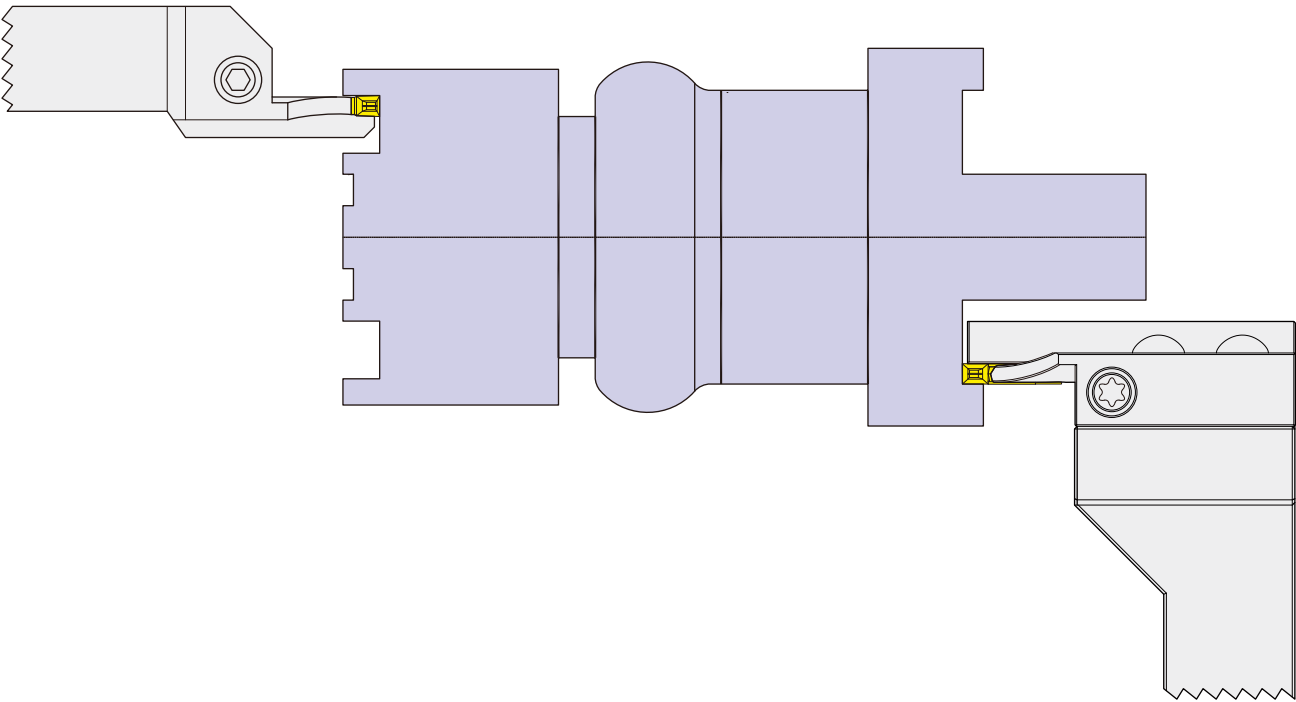


牙刀開槽刀

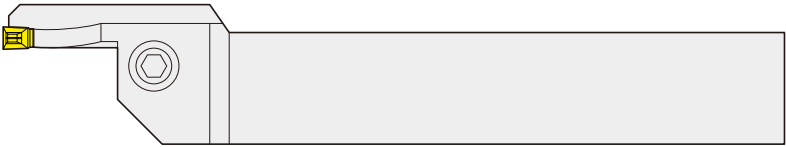
THREADING & GROOVING



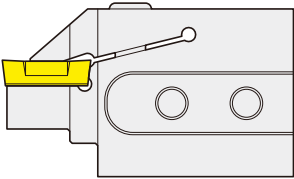
外徑端面開槽加工示意圖 Processing Diagram



KGDFR _____ P.108



DGFR _____ P.109-110



HFAVR _____ P.111-112

內徑車刀
BORING BARS

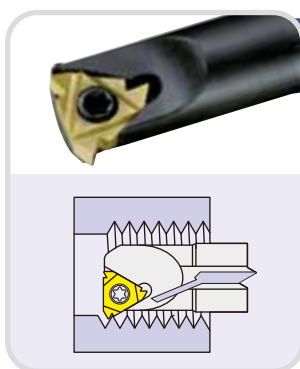
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

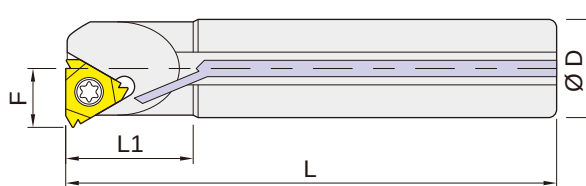
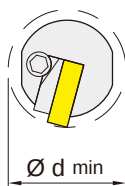
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

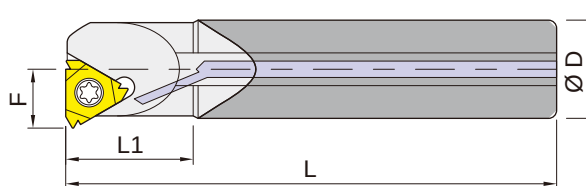
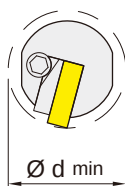
配件
SPARE PARTS



SNR/L



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

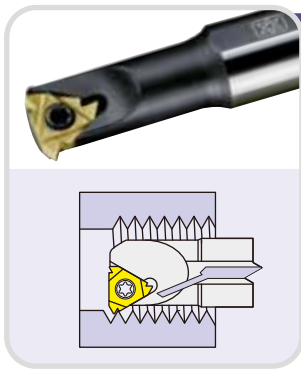


Coolant carbide shank-right shown
中心出水鎢鋼柄 右向示意圖

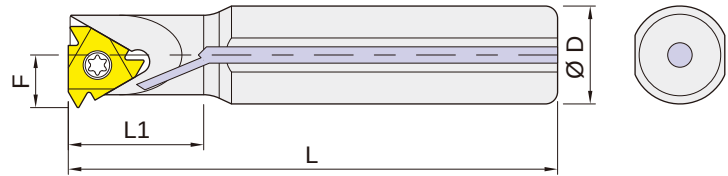
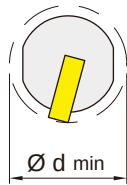
Steel shank	Item code	Dimensions,mm					Insert	Spare parts	Weight Kg
		D	L	L1	F	dmin			
Non coolant	Coolant								
SNR/L-0008K-08-S08	SNR/L-A0008K-08-S08	08	125	20	5.5	11	08NR/L	②	0.05
SNR/L-0010K-11-S10	SNR/L-A0010K-11-S10	10	125	22	6.5	13	11NR/L	③	0.08
SNR/L-0012M-11-S12	SNR/L-A0012M-11-S12	12	150	26	8	16			0.13
SNR/L-0016Q-16	SNR/L-A0016Q-16	16	180	36	10	19	16NR/L	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
NEW SNR-0040V-16	SNR-A0040V-16	40	400	60	22	44			3.95
NEW SNR-0050V-16	SNR-A0050V-16	50	400	60	27	54			6.17
NEW SNR-0060V-16	SNR-A0060V-16	60	400	60	32	64			8.88
SNR-0080V-16		80	400	80	42	82			15.78
NEW SNR/L-0020R-22	SNR/L-A0020R-22	20	200	40	14	28	22NR/L	⑥	0.49
NEW SNR/L-0025R-22	SNR/L-A0025R-22	25	200	45	16.5	32		⑦	0.77
NEW SNR/L-0025S-22	SNR/L-A0025S-22	25	250	45	16.5	32			0.96
NEW SNR/L-0032S-22	SNR/L-A0032S-22	32	250	45	20	40			1.58
NEW 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
		D	L	L1	F	dmin			
Non coolant	Coolant								
NEW SNR/L-C0006J-06	--	6	110	15	4.1	8	06NR/L	①	0.05
NEW SNR-C0007J-08	--	7	110	18	4.5	9	08NR	②	0.06
NEW SNR-C0008K-08		8	125	20	5.5	11			0.09
NEW SNR/L-C0010K-11	SNR/L-E0010K-11	10	125	22	6.5	13	11NR/L	③	0.14
NEW SNR-C0012M-11		12	150	26	8	16			0.24
NEW SNR-C0016R-16		16	200	36	10	19	16NR	④	0.58
NEW SNR-C0020R-16		20	200	40	12	24		⑤	0.91
NEW SNR-C0025S-16		25	250	45	14.5	29			1.77

Internal Threading Boring Bars



SNR/L



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
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

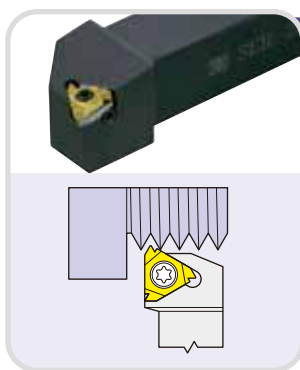
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

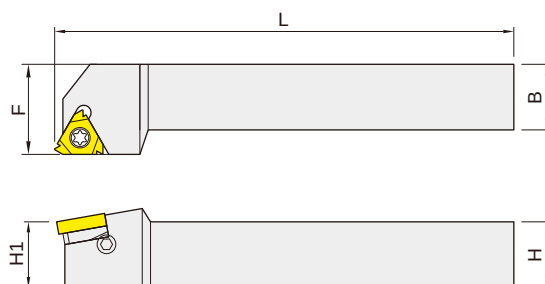
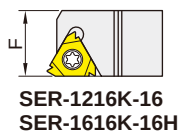
Steel shank	Item code	Dimensions,mm					Insert	Spare parts	Weight Kg
		D	L	L1	F	dmin			
Non coolant	Coolant								
SNR/L-0005H-06	SNR/L-A0005H-06	12	100	12	3.6	7	06NR/L	①	0.09
SNR/L-0006H-06	SNR/L-A0006H-06	12	100	15	4.1	8			
SNR/L-0007K-08	SNR/L-A0007K-08	16	125	18	4.5	9	08NR/L	②	0.20
SNR/L-0008K-08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

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 88 頁 See page 88 for threading insert.



SER/L

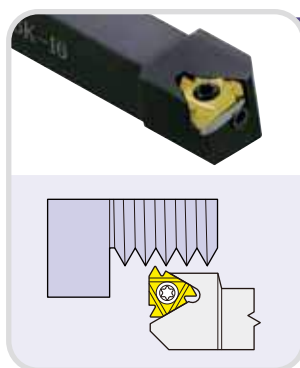


Right-hand shown

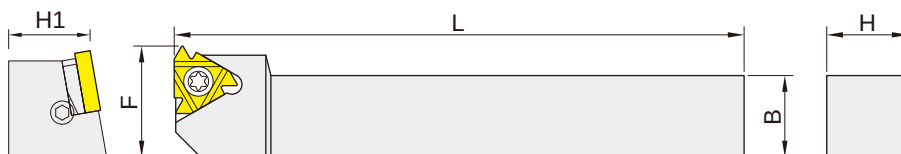
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
SER/L-1616K-16	16	16	125	20	16ER/L	②	0.29
SER/L-2020K-16	20	20	125	25			0.45
SER/L-2525M-16	25	25	150	32			0.84
SER/L-3232P-16	32	32	170	40			1.51
SER/L-2020K-22	20	20	125	25	22ER/L	③	0.45
SER/L-2525M-22	25	25	150	32			0.84
SER/L-3232P-22	32	32	170	40			1.51
SER/L-2525M-27	25	25	150	32	27ER/L	④	0.84
SER/L-3232P-27	32	32	170	40			1.51

Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
SER/L-1010K-16	10	10	125	10	16ER/L	①	0.11
SER/L-1212K-16	12	12	125	12			0.17
SER/L-1212K-16H	12	12	125	12			0.15
SER/L-1216K-16	12	16	125	16			0.23
SER/L-1616K-16H	16	16	125	16			0.26

※走心式刀 SWISS-TYPE



SKER/L



Right-hand shown

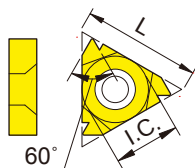
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
SKER/L-1212K-16	12	12	125	18	16ER/L	①	0.17
SKER/L-1616K-16	16	16	125	22		②	0.29
SKER/L-2020K-16	20	20	125	27			0.45
SKER/L-2525M-16	25	25	150	34			0.84

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

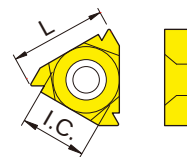
牙刀片 Threading Inserts

Insert Shape

外牙右向 EX-RH
内牙左向 IN-LH



外牙左向 EX-LH
内牙右向 IN-RH



内徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

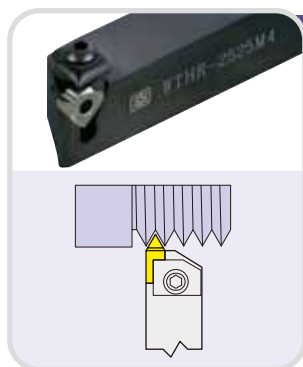
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

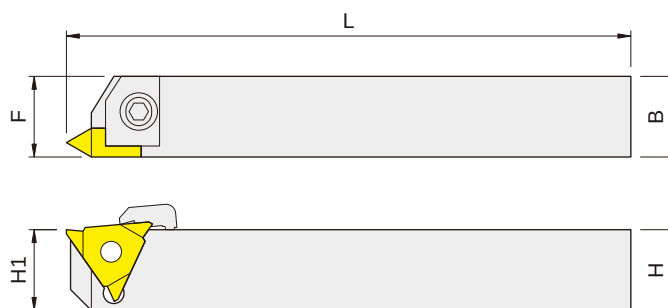
Description	公制規格 Metric	Pitch (mm)	英制規格 Inch	Pitch (TPI)	L (mm)	I.C. (In)
06IR/L	A60	0.5~1.25	A60	48-20	6	3.97
			32 UN	32		
			28 UN	28		
			24 UN	24		
			20 UN	20		
			18 UN	18		
08IR/L 08NR/L	A60	0.5~1.5	A60	48-16	8	4.76
	0.5 ISO	0.50	32 UN	32		
	0.75 ISO	0.75	28 UN	28		
	1.0 ISO	1.00	24 UN	24		
	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	11	6.35
	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		

16IR/L 16NR/L 16ER/L	AG60	0.5~3.0	AG60	48-8	16	9.525
	A60	0.5~1.5	A60	48-16		
	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		
22IR/L 22NR/L 22ER/L	N60	3.5~5.0	N60	7-5	22	12.7
	3.5 ISO	3.50	7 UN	7		
	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 27NR/L 27ER/L	Q60	5.5~6.0	Q60	4.5-4	27	15.875
	5.5 ISO	5.50	4.5 UN	4.5		
	6.0 ISO	6.00	4 UN	4		



WTH

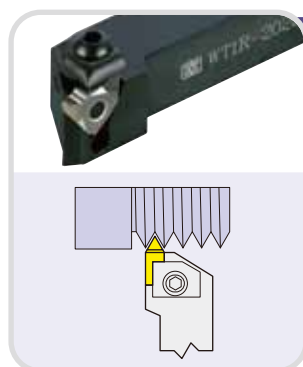
功能:
螺紋 Threading



Right-hand shown

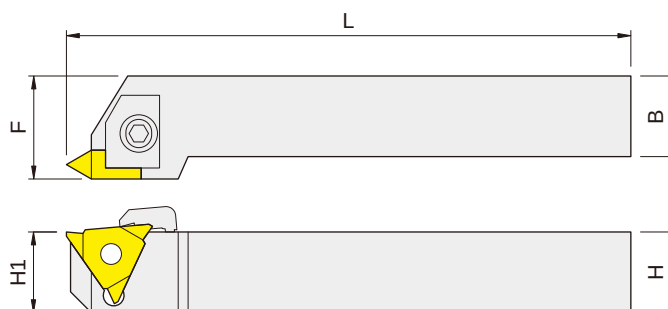
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
WTHR/L-2020K4	20	20	125	20	MTTR/L 43..	①	0.39
WTHR/L-2525M4	25	25	150	25			0.74
WTHR-3232P4	32	32	170	32			1.37

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



WT1

功能:
螺紋 Threading

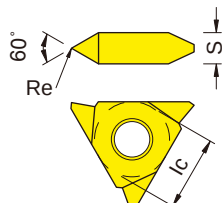
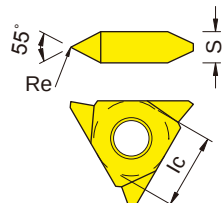


Right-hand shown

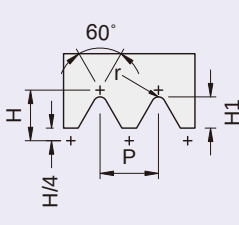
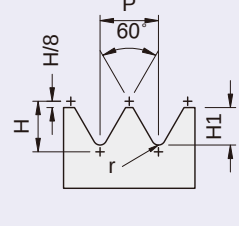
Item code	Dimensions,mm				Insert	Spare parts	Weight Kg
	H (H1)	B	L	F			
WT1R/L-1616K4	16	16	125	20	MTTR/L 43..	①	0.29
WT1R/L-2020K4	20	20	125	25			0.45
WT1R/L-2525M4	25	25	150	32			0.84

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

牙刀片 Threading Inserts

Description	GRADE 材質			Insert Shape	牙距mm(牙數) PITCH	Dimensions,mm		
	GT25	NM936	NY140			Re	lc	S
MTTR436000				 Right-hand	-0.8	0	12.7	4.76
L436000					1.0-1.75	0.1	12.7	4.76
R436001					2.0-2.5	0.2	12.7	4.76
L436001					3.0-3.5	0.3	12.7	4.76
R436002	●				4.0-4.5	0.4	12.7	4.76
L436002		●	●		(28-10)	0.1	12.7	4.76
R436003					(16-8)	0.2	12.7	4.76
L436003					(11-8)	0.3	12.7	4.76
R436004	●							
L436004								
MTTR435501				 Right-hand	(28-10)	0.1	12.7	4.76
L435501					(16-8)	0.2	12.7	4.76
R435502					(11-8)	0.3	12.7	4.76
L435502								
R435503								
L435503								

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

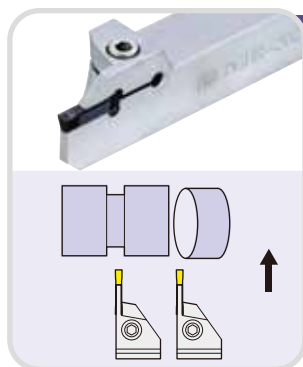
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

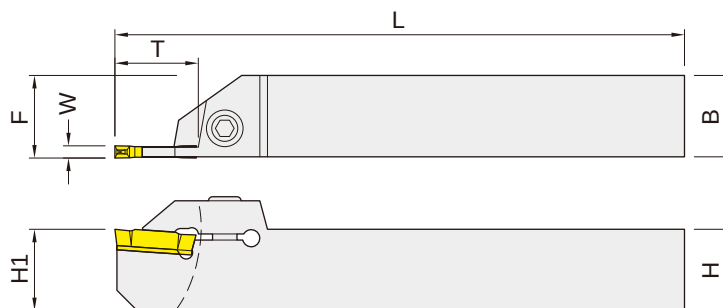
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

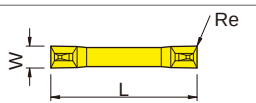


DGH



Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
DGHR/L-1616K-2-16L	16	16	125	16.3	16	2.0	DGM20CE	HTM520	PL40	0.27
DGHR/L-2020K-2-16L	20	20	125	20.3	16	2.0	DGM20CE	HTM525	PL40	0.42
DGHR/L-1616K-2-20L	16	16	125	16.3	20	2.0	DGM20CE	HTM520	PL40	0.27
DGHR/L-2020K-2-20L	20	20	125	20.3	20	2.0	DGM20CE	HTM525	PL40	0.42
DGHR/L-2020K-3-12L	20	20	125	20.3	12	3.0	DGM30CT	HTM525	PL40	0.42
DGHR/L-2525M-3-12L	25	25	150	25.3	12	3.0	DGM30CT	HTM525	PL40	0.78
DGHR/L-1616K-3-16L	16	16	125	16.3	16	3.0	DGM30CT	HTM520	PL40	0.27
DGHR/L-2020K-3-16L	20	20	125	20.3	16	3.0	DGM30CT	HTM525	PL40	0.42
DGHR/L-2525M-3-16L	25	25	150	25.3	16	3.0	DGM30CT	HTM525	PL40	0.78
DGHR/L-1616K-3-20L	16	16	125	16.3	20	3.0	DGM30CT	HTM520	PL40	0.27
DGHR/L-2020K-3-20L	20	20	125	20.3	20	3.0	DGM30CT	HTM525	PL40	0.42
DGHR/L-2525M-3-20L	25	25	150	25.3	20	3.0	DGM30CT	HTM525	PL40	0.78
DGHR/L-1616K-3-25L	16	16	125	16.3	25	3.0	DGM30CE	HTM520	PL40	0.27
DGHR/L-2020K-3-25L	20	20	125	20.3	25	3.0	DGM30CE	HTM525	PL40	0.42
DGHR/L-2525M-3-25L	25	25	150	25.3	25	3.0	DGM30CE	HTM525	PL40	0.78
DGHR-3232P-3-25L	32	32	170	32.3	25	3.0	DGM30CE	HTM525	PL40	1.43
DGHR/L-1616K-4-20L	16	16	125	16.3	20	4.0	DGM40CT	HTM520	PL40	0.27
DGHR/L-2020K-4-20L	20	20	125	20.3	20	4.0	DGM40CT	HTM525	PL40	0.42
DGHR/L-2525M-4-20L	25	25	150	25.3	20	4.0	DGM40CT	HTM525	PL40	0.78
DGHR/L-1616K-4-25L	16	16	125	16.3	25	4.0	DGJ40CE	HTM520	PL40	0.27
DGHR/L-2020K-4-25L	20	20	125	20.3	25	4.0	DGJ40CE	HTM525	PL40	0.42
DGHR/L-2525M-4-25L	25	25	150	25.3	25	4.0	DGJ40CE	HTM525	PL40	0.78
DGHR-3232P-4-25L	32	32	170	32.3	25	4.0	DGJ40CE	HTM525	PL40	1.43
DGHR/L-1616K-5-25L	16	16	125	16.3	25	5.0	DGM50CT	HTM520	PL40	0.27
DGHR/L-2020K-5-25L	20	20	125	20.3	25	5.0	DGM50CT	HTM525	PL40	0.42
DGHR/L-2525M-5-25L	25	25	150	25.3	25	5.0	DGM50CT	HTM525	PL40	0.78

Description		GRADE 材質				Insert Shape	Dimensions,mm			
		GT25	GY55	GV65	NW745		W	L	H	Re
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

External Grooving Toolholders

內徑車刀
BORING BARS

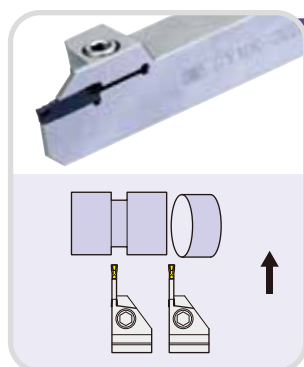
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

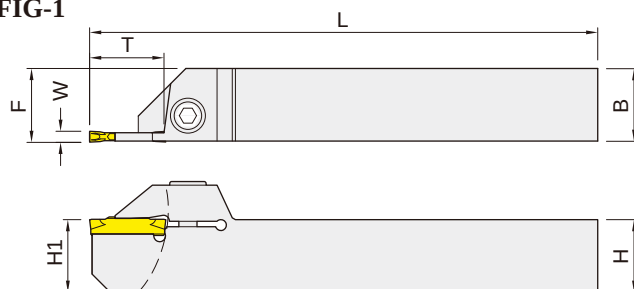
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



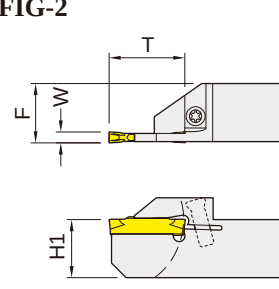
GYM

FIG-1



Right-hand shown

FIG-2



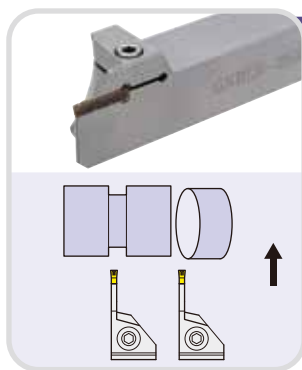
GYMR-----LH

FIG-1 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	20.3	13	2.0	GY2M02..D	HTM630	PL50	0.42
GYMR-2020K-2-18L	20	20	125	20.3	18					0.42
GYMR-2020K-3-08L	20	20	125	20.3	8	3.0	GY2M03..F.	HTM630	PL50	0.42
GYMR-2525M-3-08L	25	25	150	25.3						0.78
GYMR-2020K-3-12L	20	20	125	20.3	12					0.42
GYMR-2525M-3-12L	25	25	150	25.3						0.78
GYMR/L-2020K-3-20L	20	20	125	20.3	20					0.42
GYMR/L-2525M-3-20L	25	25	150	25.3						0.78
GYMR-2020K-4-20L	20	20	125	20.3	20	4.0	GY2M04..G.	HTM630	PL50	0.42
GYMR-2525M-4-20L	25	25	150	25.3						0.78
GYMR-2020K-5-20L	20	20	125	20.4	20	5.0	GY2M05..H.	HTM630	PL50	0.42
GYMR-2525M-5-20L	25	25	150	25.4						0.78
GYMR-3232P-5-20L	32	32	170	32.4						1.43

FIG-2 Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T					
GYMR-1616K-2-13LH	16	16	125	16.25	13	2.0	GY2M02..D	MS4013F	ETL15	0.25
GYMR-1616K-2-18LH	16	16	125	16.25	18					0.25
GYMR-1616K-3-16LH	16	16	125	16.3	16	3.0	GY2M03..F.			0.25
GYMR-1616K-3-20LH	16	16	125	16.3	20					0.25

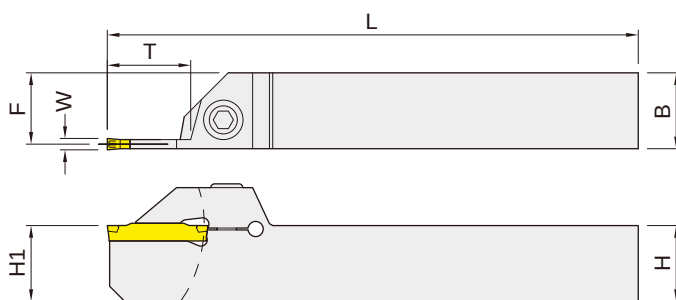
※走心式刀 SWISS-TYPE

Description		GRADE 材質		Insert Shape	Dimensions,mm			
		NY942	NW950		W	L	ar (Max.)	Re
GY2M	0200D020N-GM		●		2	20.7	19.4	0.2
	0300F030N-GM		●		3	20.7	19.4	0.3
	0400G030N-GM				4	25.65	24.4	0.3
	0500H040N-GM				5	25.65	24.3	0.4
GY2M	0300F150N-BM				3	20.9	19	1.5
	0400G200N-BM				4	25.8	23.4	2.0
	0500H250N-BM				5	25.8	22.8	2.5



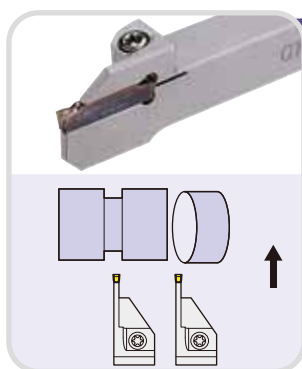
GNDL

功能:
開槽 Grooving
切斷 Cut-off



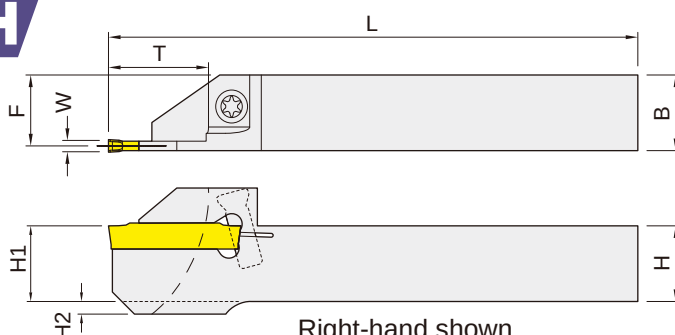
Right-hand shown

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...	HTM525	PL40	0.45
GNDLR-2525M-220T	25	25	150	24.2						0.84
GNDLR-1616K-320T	16	16	125	14.9	20	3.0	GCMN30...			0.24
GNDLR-2020K-320T	20	20	125	18.9						0.45
GNDLR-2525M-320T	25	25	150	23.9				HTM525	PL40	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

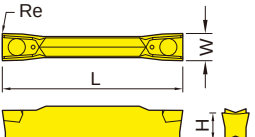
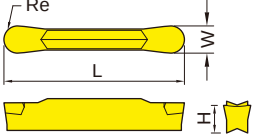
功能:
開槽 Grooving
切斷 Cut-off



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-1212K-318LHT	12	12	125	10.95	18	2	3.0	GCMN30...			0.15

※走心式刀 SWISS-TYPE

Description		GRADE 材質 AC530U	Insert Shape	Dimensions,mm			
				W	L	H	Re
GCMN 2002..	3002..			2	21.1	3.6	0.2
	4004..			3	21.1	3.8	0.2
				4	26.4	4.0	0.4
GCMN 3015-RG	4020-RG			3	21.1	3.8	1.5
				4	26.4	4.0	2.0

External Grooving Toolholders

內徑車刀
BORING BARS

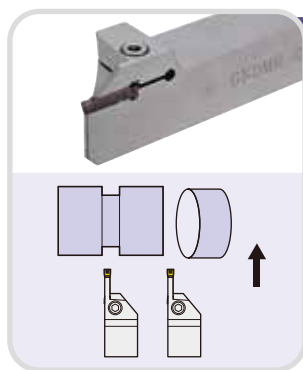
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

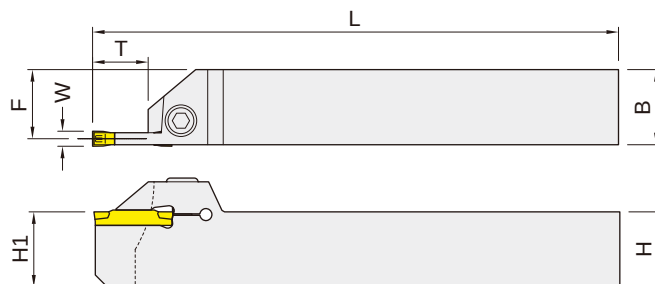
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



GNDM

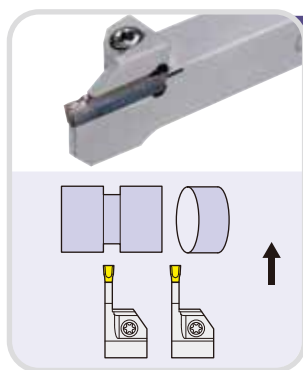
功能:
開槽 Grooving
橫送 Turning
做形 Profiling



Right-hand shown

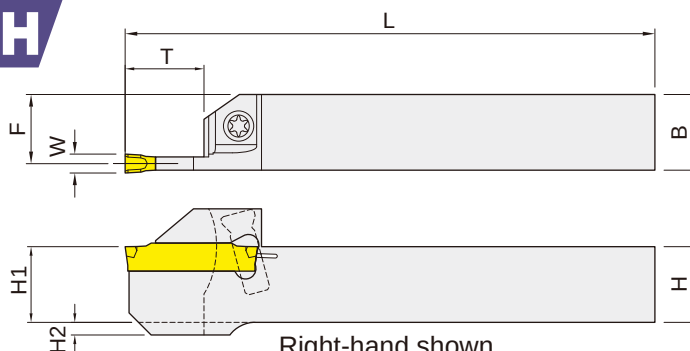
Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
GNDMR-2020K-312T	20	20	125	18.9	12	3.0	GCMN30...	HTM525	PL40	0.45
GNDMR-2525M-312T	25	25	150	23.9						0.84
GNDMR-2020K-418T	20	20	125	18.5	18	4.0	GCMN40...			0.45
GNDMR-2525M-418T	25	25	150	23.5						0.84
GNDMR/L-2525M-518T	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

NEW



GNDM..LH

功能:
開槽 Grooving
橫送 Turning
做形 Profiling

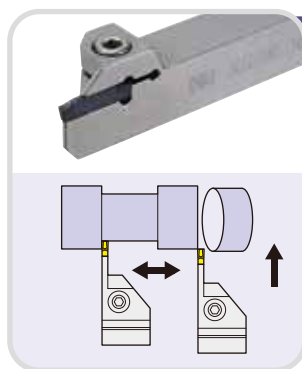


Right-hand shown

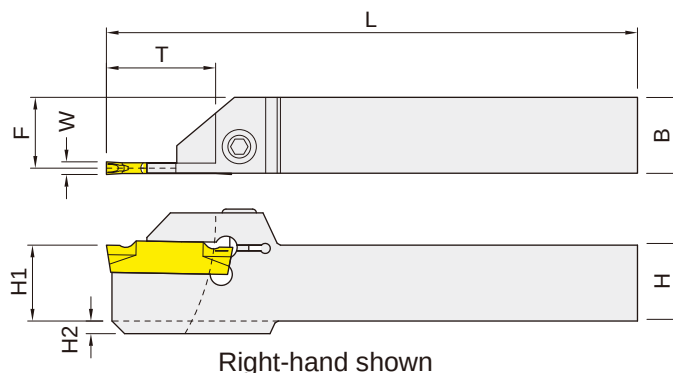
Item code	Dimensions,mm						Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2					
GNDMR/L-1212K-312LHT	12	12	125	10.95	12	2	3.0	GCMN30...	MS4013F	ETL15	0.15

※走心式刀 SWISS-TYPE

Description		GRADE 材質	Insert Shape	Dimensions,mm			
		AC530U		W	L	H	Re
GCMN 3002..	4004..	●		3	21.1	3.8	0.2
	5004..	●		4	26.4	4.0	0.4
	6004..	●		5	26.4	4.1	0.4
		●		6	26.4	4.5	0.4
GCMN 3015-RG	4020-RG	●		3	21.1	3.8	1.5
	5025-RG	●		4	26.4	4.0	2.0
	6030-RG	●		5	27.2	4.1	2.5
		●		6	27.5	4.5	3.0



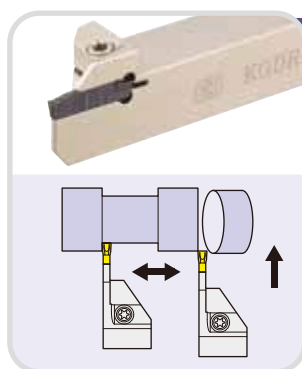
KGD



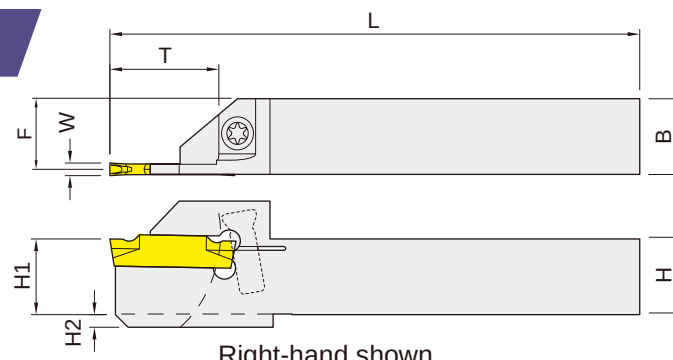
Right-hand shown

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2				
KGDR-1212K-2T13T	12	12	125	11.2	13	3	GDM2020	HTM420	PL30	0.14
KGDR-1616K-2T13T	16	16	125	15.2	17	--		HTM520	PL40	0.25
KGDR/L-2020K-2T17T	20	20	125	19.2				HTM525		0.39
KGDR/L-2525M-2T17T	25	25	150	24.2				0.74		
KGDR-1616K-3T20T	16	16	125	14.8	20	--	GDM3020	HTM520		0.27
KGDR/L-2020K-3T20T	20	20	125	18.8				HTM525		0.39
KGDR/L-2525M-3T20T	25	25	150	23.8				0.74		

NEW
NEW



KGD..LH

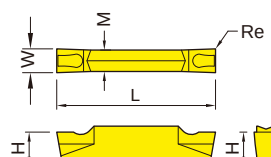


Right-hand shown

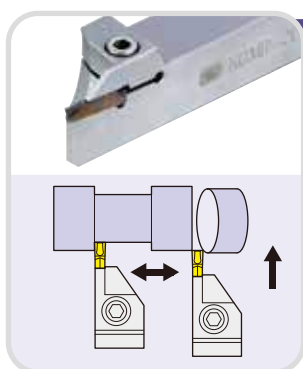
Item code	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2				
KGDR/L-1010K-2TH13T	10	10	125	9.2	13	4	GDM2020	MS4013F	ETL15	0.10
KGDR/L-1212K-2TH13T	12	12	125	11.2	17	2				0.14
KGDR/L-1616K-2TH13T	16	16	125	15.2		--				0.25
KGDR/L-1212K-2TH17T	12	12	125	11.2		2				0.14
KGDR/L-1616K-2TH17T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

NEW
NEW
NEW
NEW
NEW

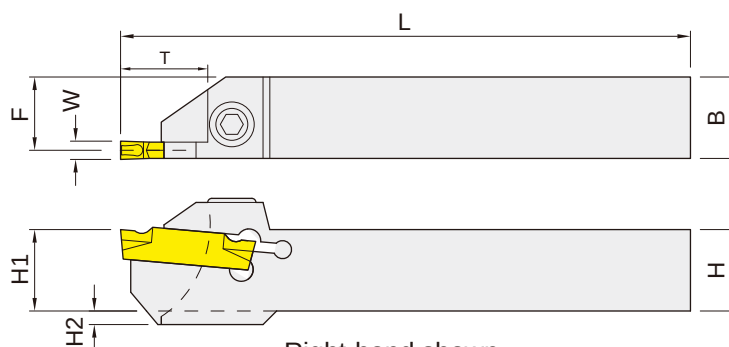
※走心式刀 SWISS-TYPE

Description		GRADE 材質		Insert Shape	Dimensions,mm			
		PR1225	PR1215		W	L	H	Re
GDM	2020...	●	●		2	20	4.3	0.2
	3020...	●			3			0.3
	4020...				4			0.3
	5020...				5			0.4 or 0.8

External Grooving Toolholders



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...	HTM520	PL40	0.27
KGMR/L-2020K-1.5-L10	20	20	125	19.4						HTM525		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...	HTM520	PL40	0.27
KGMR/L-2020K-2T-L10	20	20	125	19.1					GMM3020...	HTM525		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		--				HTM520	PL40	0.27
KGMR/L-2020K-2T-L13	20	20	125	19.1						HTM525		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		--				HTM520	PL40	0.27
KGMR/L-2020K-2T-L17	20	20	125	19.1						HTM525		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...	HTM520	PL40	0.27
KGMR/L-2020K-3T-L16	20	20	125	18.8					GMM4020...	HTM525		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...	HTM525	PL40	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...	HTM525	PL40	0.78
KGMR/L-3232P-5T-L20	32	32	170	29.8					GMM6020...			1.43

Description		GRADE 材質		Insert Shape	Dimensions,mm				
		PR930	KW10		W	L	H	M	Re
GMM	1520-MT	●			1.5	20	4.3	1.2	0.0-0.05
	2020-MT	●			2.0			1.5	0.0-0.05
	2520-MT	●			2.5			1.9	0.0-0.05
	3020-MT	●			3.0			2.3	0.0-0.05
GMM	2420-02				2.4			1.9	0.2
	3020-04				3.0			2.3	0.4
	4020-04				4.0			3.3	0.4
	5020-08				5.0			4.2	0.8
	6020-08				6.0			5.9	0.8

內徑車刀
BORING BARS

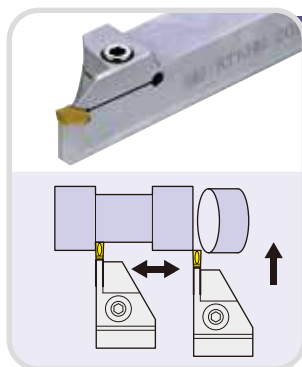
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

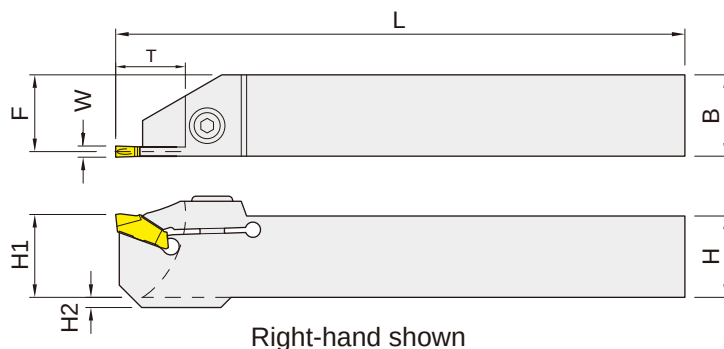
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

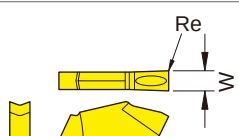
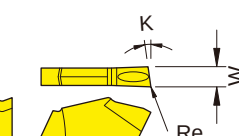
配件
SPARE PARTS



KTKH

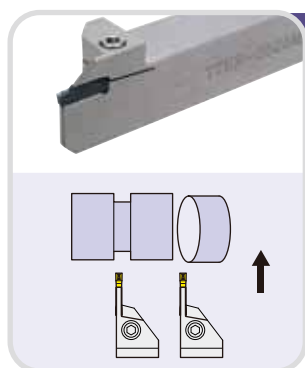


Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
KTKHR-1212K-2-13L	12	12	125	11.1	13	4	2.2	TKN2 TKN2.4	HTM416	PL30	0.14
KTKHR-1212M-2-13L	12	12	150	11.1		--	2.4				
KTKHR-1616K-2-13L	16	16	125	15.1			HTM520		PL40	0.27	
KTKHR-2020K-2-13L	20	20	125	19.1			HTM525			0.42	
KTKHR-2525M-2-13L	25	25	150	24.1			0.78				
KTKHR-1616K-2-20L	16	16	125	15.1	20	--	2.2 2.4	HTM520	PL40	0.27	
KTKHR-2020K-2-20L	20	20	125	19.1				HTM525		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	HTM525	PL40	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	HTM520	PL40	0.27
KTKHR-2020K-3-22L	20	20	125	18.8					HTM525		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	HTM525	PL40	0.78
KTKHR-2525M-4-32L	25	25	150	23.2			4.1	TKN4			0.78

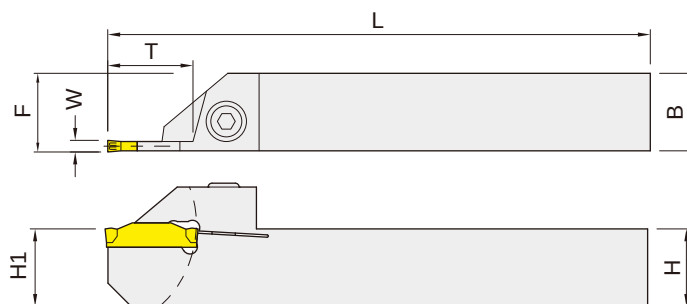
Description		GRADE 材質		Insert Shape	Dimensions,mm		
		CR9025	PR660		W	Re	K
TKN	2	●			2.2	0.2	--
	2.4	●			2.4	0.2	
	3				3.1	0.25	
	4				4.1	0.3	
TKR/L	2	●			2.2	0.2	8°
	2.4	●			2.4	0.2	8°
	3				3.1	0.25	8°
	4				4.1	0.3	8°

Right-hand

External Grooving Toolholders

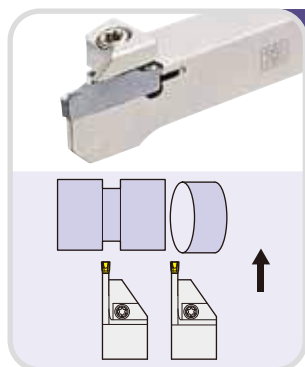


TTER/L

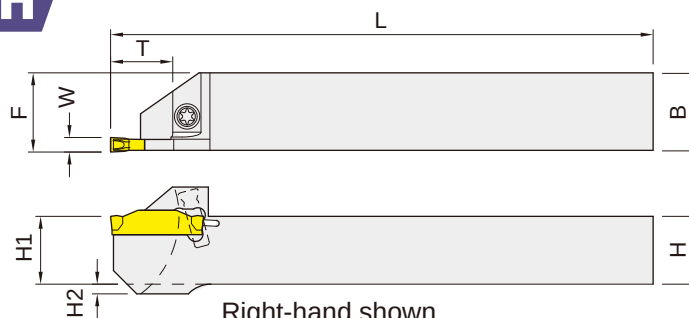


Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg			
	H(H1)	B	L	F	T								
TTER/L-2020K-2-16L	20	20	125	20.2	16	2.0	TDC... TSC../TDJ.. TSJ../TDT..	HTM525	PL40	0.42			
TTER/L-2525M-2-16L	25	25	150	25.2						0.78			
TTER/L-2020K-2-20L	20	20	125	20.2	20					0.42			
TTER/L-2525M-2-20L	25	25	150	25.2						0.78			
TTER/L-2020K-3-16L	20	20	125	20.3	16	3.0							0.42
TTER/L-2525M-3-16L	25	25	150	25.3									0.78
TTER/L-2020K-3-20L	20	20	125	20.3	20								0.42
TTER/L-2525M-3-20L	25	25	150	25.3									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						
NEW TTER/L-1010K-2-10LH	10	10	125	10.2	10	2	2.0	TDC... TSC../TDJ.. TSJ../TDT..	MS4013F	ETL15		0.10
NEW TTER/L-1212K-2-12LH	12	12	125	12.2	12							0.17
TTER/L-1616K-2-12LH	16	16	125	16.2	12	--						0.25
TTER/L-1212K-2-16LH	12	12	125	12.2	16	2						0.17
TTER/L-1616K-2-16LH	16	16	125	16.2	16	--						0.25

※走心式刀 SWISS -TYPE

Description	GRADE 材質		Insert Shape	Dimensions,mm				
	TT9030	TT8020		W	Re	L	H	K°
TDJ2	●			2.0	0.2	20	4.7	--
TDJ3	●			3.0	0.2	20	4.7	--
TDJ2-15R		●		2.0	0.2	20	4.7	15
TDJ3-15R	●			3.0	0.2	20	4.7	15

內徑車刀
BORING BARS

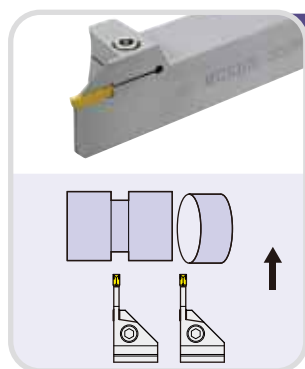
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

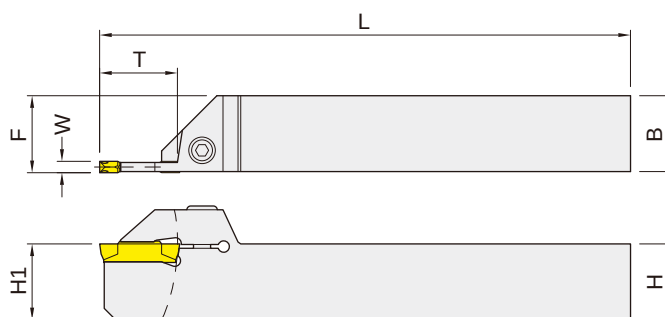
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

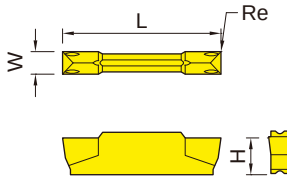
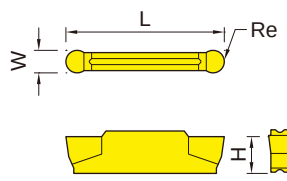


MGEH

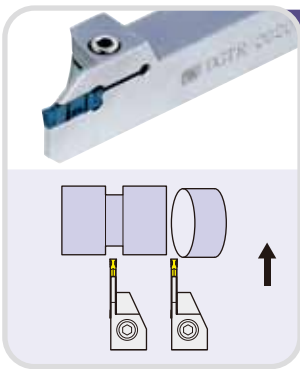


Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
MGEHR-1616K-2T16T	16	16	125	16.25	16	2.0	MGMN200G..	HTM520	PL40	0.26
MGEHR-2020K-2T20T	20	20	125	20.25	20			HTM525		0.41
MGEHR-2525M-2T20T	25	25	150	25.25	20					0.77
MGEHR-1616K-3T20T	16	16	125	16.3	20	3.0	MGMN300G..	HTM520	PL40	0.26
MGEHR-2020K-3T20T	20	20	125	20.3	20			HTM525		0.41
MGEHR-2525M-3T20T	25	25	150	25.3	20					0.77

Description		GRADE 材質		Insert Shape	Dimensions,mm				
		NC3030	H01		W	Re	L	H	K°
MGMN	200-G	●			2.0	0.2	16.0	3.5	--
	300-G	○			3.0	0.4	21.0	4.8	--
MRMN	200-M	●			2.0	1.0	16.0	3.5	--
	300-M				3.0	1.5	21.0	4.8	--

External Grooving Toolholders



DGT

FIG-2

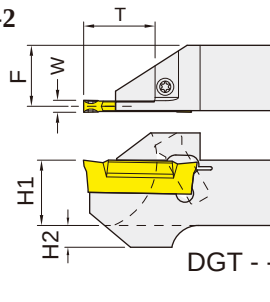


FIG-1

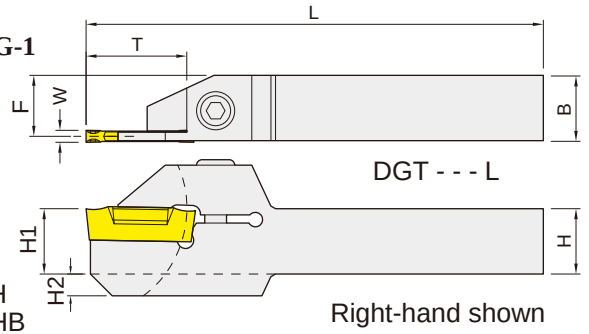


FIG-1 Item code	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T	H2				
NEW DGTR-2020K-2-13L	20	20	125	19.3	13	--	DGN20..	HTM525	PL40	0.42
NEW DGTR-2525M-2-13L	25	25	150	24.3			DGN22..			0.78
DGTR/L-1212K-2-18L	12	12	125	11.3	18	4		HTM420	PL30	0.14
DGTR/L-1616K-2-18L	16	16	125	15.3		--		HTM520	PL40	0.27
DGTR/L-2020K-2-18L	20	20	125	19.3	18			HTM525		0.42
DGTR/L-2525M-2-18L	25	25	150	24.3						0.78
NEW DGTR-2020K-3-12L	20	20	125	18.8	12	--	DGN30..	HTM525	PL40	0.42
NEW DGTR-2525M-3-12L	25	25	150	23.8			DGN31..			0.78
DGTR/L-1616K-3-20L	16	16	125	14.8	20	4		HTM525		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

FIG-2 Item code	Dimensions,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	DGN20..	MS4013F	ETL15	0.08
DGTR/L-1010K-2-24SH	10	10	125	9.3	12	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

Description		GRADE 材質		Insert Shape	Dimensions,mm			
		IC354	GV 65		W	Re	L	K°
DGN	2002C	●			2.0	0.2	19.7	--
	2202C				2.2	0.2	19.8	--
	3102C		●		3.1	0.2	20.1	--
DGR	2202C-6D				2.2	0.2	19.5	6
	3102C-8D				3.1	0.2	20.6	8

內徑車刀
BORING BARS

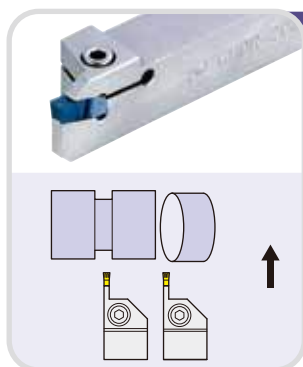
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

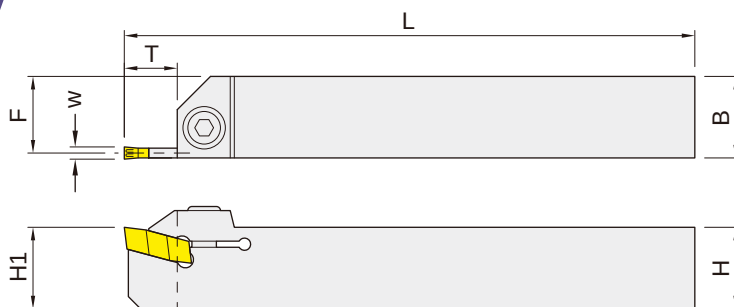
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

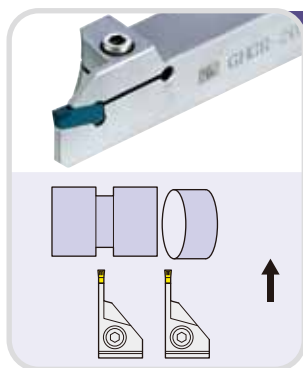


GHD

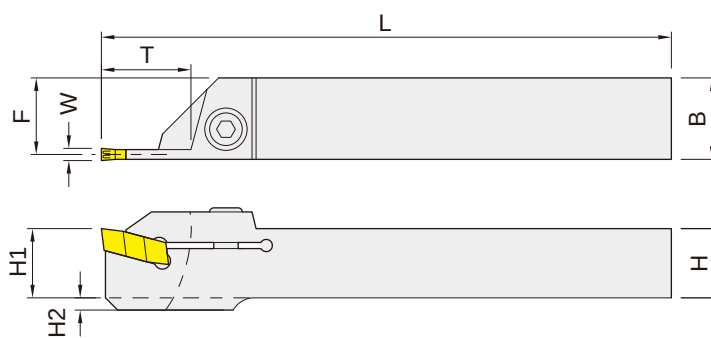


Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T					
GHDR/L-2020K-3-10L	20	20	125	18.8	10	2.8~4	GIP...	HTM525	PL40	0.42
GHDR/L-2525M-3-10L	25	25	150	23.8		4~5	GIF...			0.78
GHDR/L-2020K-4-10L	20	20	125	18.4			GIMF...			0.42
GHDR/L-2525M-4-10L	25	25	150	23.4		GIMY...	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



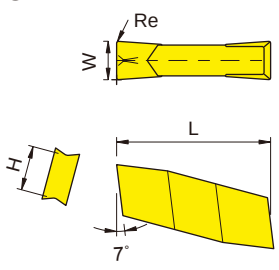
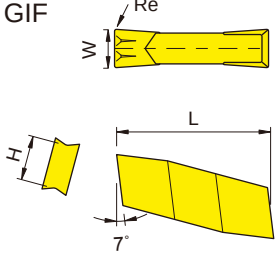
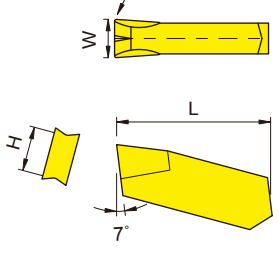
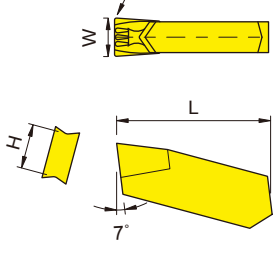
GHG



Right-hand shown

Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
GHGR-2020K-2-20L	20	20	125	19.2	20	--	2.2~2.4	GIP...	HTM525	PL40	0.42
GHGR-2525M-2-20L	25	25	150	24.2		4	3~4	GIF...	HTM520		0.78
GHGR-1616K-3-20L	16	16	125	14.7				GIMF...			0.27
GHGR-2020K-3-20L	20	20	125	18.7		--	4~5	GIMY...	HTM525		0.42
GHGR-2525M-3-20L	25	25	150	23.7				0.78			
GHGR-2020K-4-20L	20	20	125	18.2				0.42			
GHGR-2525M-4-20L	25	25	150	23.2				0.78			
GHGR-2020K-4-25L	20	20	125	18.2	25			HTM625	PL50	0.42	
GHGR-2525M-4-25L	25	25	150	23.2				HTM630		0.78	

刀片規格 Insert Specifications

Description		GRADE 材質		Insert Shape	Dimensions,mm			
		IC328	IC354		W	L	H	Re
GIP	3.00-0.00		●		3	16	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	5	0.4
	4.00E-0.60							0.6
	4.00E-0.80							0.8
	5.00-0.40				5	16	5	0.4
	5.00E-0.40		○					0.4
	5.00E-0.60							0.6
	5.00E-0.80							0.8
GIF	4.00E-0.40				4	16	5	0.4
	4.00E-0.80							0.8
	5.00E-0.40				5	16	5	0.4
	5.00E-0.80							0.8
	5.00E-2.50							2.5
GIMF	406				4	16	5	0.6
	502				5	16	5	0.2
GIMY	304				3	16	5	0.4

內徑車刀
BORING BARS

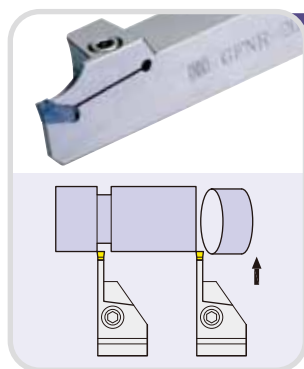
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

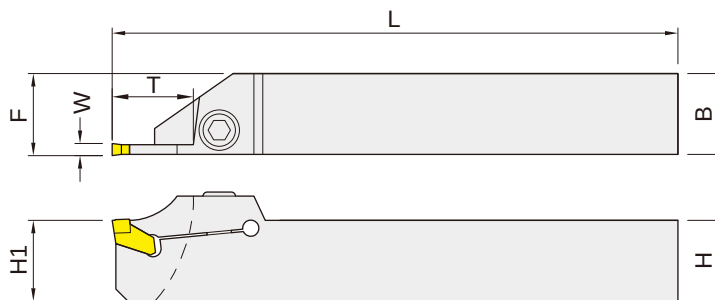
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

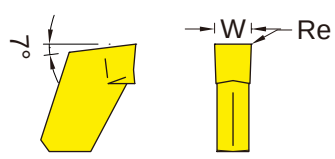


GFNR

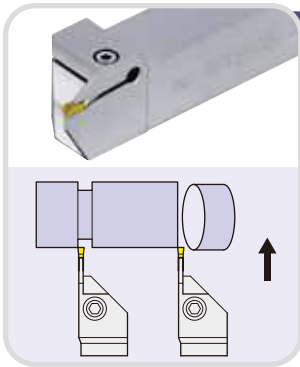


Right-hand shown

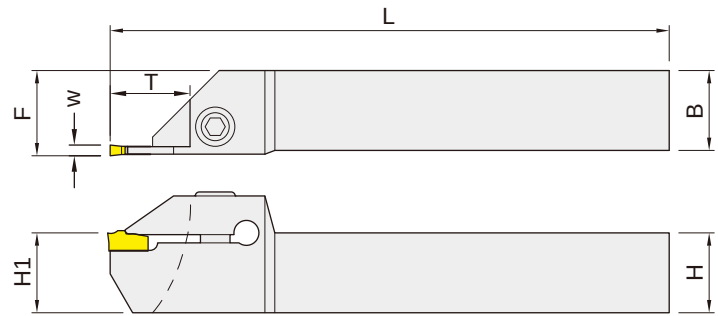
Item code	Dimensions,mm					Width W(mm)	Insert	Screw	Wrench	Weight Kg
	H(H1)	B	L	F	T					
GFNR-1212K-2-20L	12	12	125	12.25	20	2.0	GFN 2	HTM420	PL30	0.14
GFNR-1616K-2-20L	16	16	125	16.25				HTM520	PL40	0.27
GFNR-2020K-2-20L	20	20	125	20.25				HTM525		0.42
GFNR-2525M-2-20L	25	25	150	25.25						0.78
GFNR-1616K-3-20L	16	16	125	16.3	20	3.0	GFN 3	HTM520	PL40	0.27
GFNR-2020K-3-20L	20	20	125	20.3				HTM525		0.42
GFNR-2525M-3-20L	25	25	150	25.3						0.78

Description	GRADE 材質				Insert Shape	Dimensions,mm	
	IC354	GA45	GN35	GT25		W	Re
GFN 2						2.2	0.16
GFN 2.4						2.4	0.16
GFN 3	●	●	●	●		3	0.2

External Grooving Toolholders

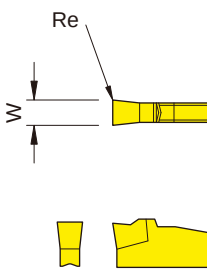


R/LF151.23



Right-hand shown

Item code	Dimensions,mm					Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T					
R/LF151.23-1616K-20M1	16	16	125	17	15	2.0	N151.2-200-5E	HTM520	PL40	0.27
R/LF151.23-2020K-20M1	20	20	125	21				HTM525		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	HTM520		0.27
RF151.23-2020K-25T10	20	20	125	21				HTM525		0.42
RF151.23-2525M-25T10	25	25	150	26						0.78
RF151.23-1616K-25M1	16	16	125	17	20	2.5		HTM520		0.27
RF151.23-1616K-30T10	16	16	125	17	10	3.0	N151.2-300-5E	HTM520		0.27
RF151.23-2020K-30T10	20	20	125	21				HTM525		0.42
RF151.23-2525M-30T10	25	25	150	26						0.78
R/LF151.23-1616K-30M1	16	16	125	17	20	3.0		HTM520		0.27
R/LF151.23-2020K-30M1	20	20	125	21				HTM525		0.42
R/LF151.23-2525M-30M1	25	25	150	26						0.78

Description	GRADE 材質		Insert Shape	Dimensions,mm		
	4125	4025		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

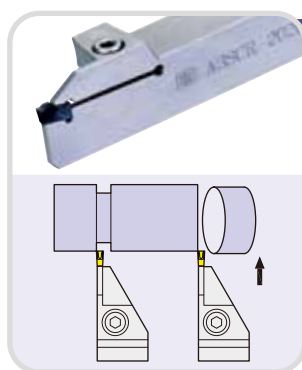
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



A3SC

FIG-2

A3SC --- LH

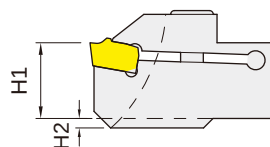


FIG-1

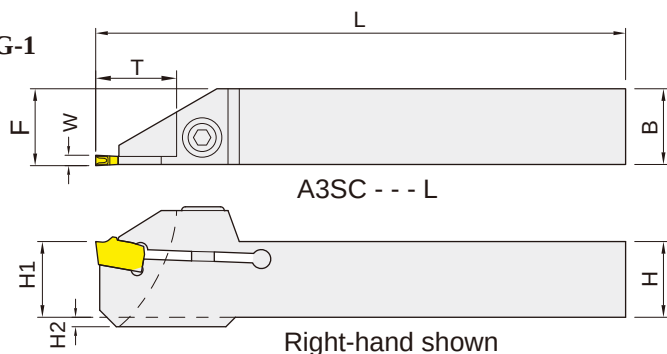


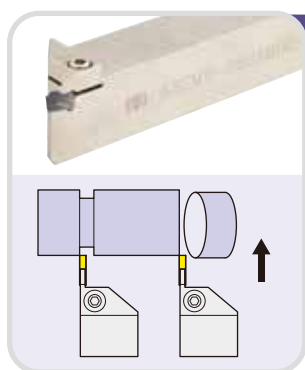
FIG-1 Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg		
	H(H1)	B	L	F	T	H2							
A3SCR -1010K02-10L	10	10	125	10.25	10	4	2.2	A2022..	HTM416	PL30	0.10		
A3SCR/L-1212K02-10L	12	12	125	12.25	16	--					HTM520	PL40	0.15
A3SCR/L-1212K02-16L	12	12	125	12.25									0.15
A3SCR/L-1616K02-16L	16	16	125	16.25					HTM525	0.27			
A3SCR/L-2020K02-16L	20	20	125	20.25					HTM525	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..	HTM520	PL40	0.27			
A3SCR/L-2020K03-16L	20	20	125	20.25	HTM525					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

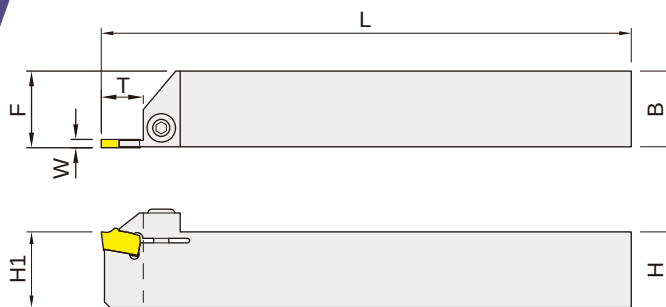
FIG-2 Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	T	H2					
A3SCR/L-1010K02-10LH	10	10	125	10.25	10	2	2.2	A2022..	HTM416	PL30	0.10
A3SCR/L-1212K02-10LH	12	12	125	12.25		--					0.14
A3SCR/L-1212K02-16LH	12	12	125	12.25	16	3					0.14
A3SCR/L-1616K02-16LH	16	16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

External Grooving Toolholders



A3SM..LH



Right-hand shown

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

Description	GRADE 材質		Insert Shape	Dimensions,mm		
	KC5025	KT315		W	Re	K°
A2022N00CR02	●			2.2	0.2	--
A2030N00CF02	●			3.05	0.2	--

內徑車刀
BORING BARS

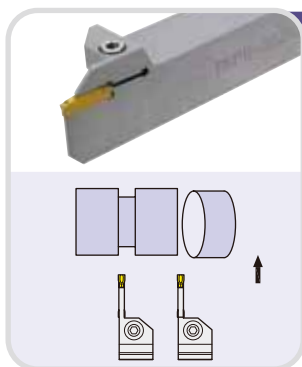
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

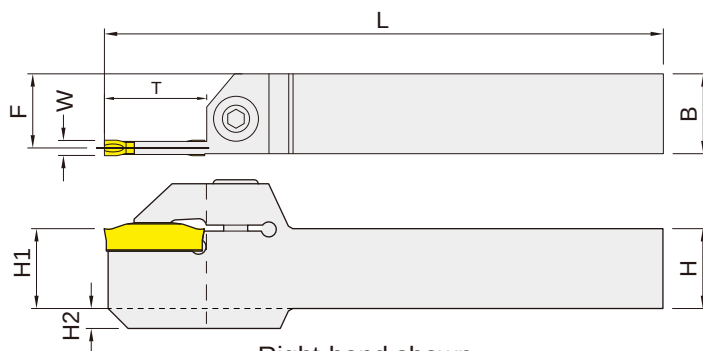
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



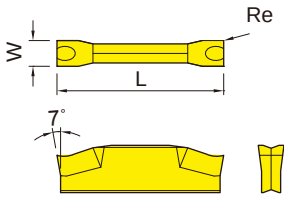
TNP

功能:
開槽 Grooving
切斷 Cut-Off

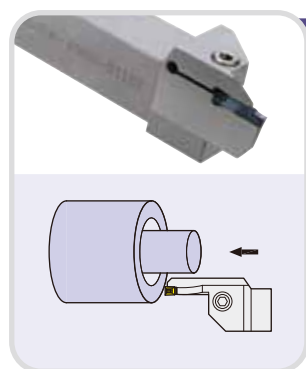


Right-hand shown

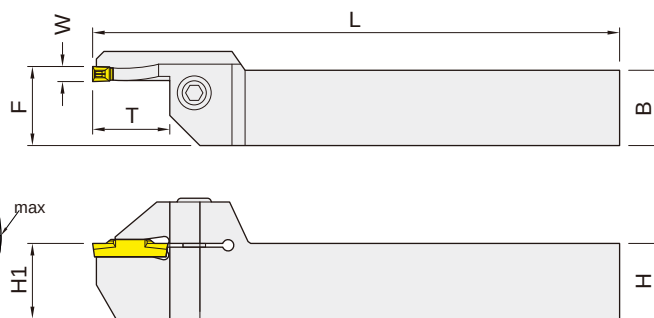
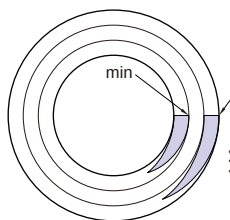
Item code	Dimensions,mm						Width W(mm)	Insert	Screw 	Wrench 	Weight Kg
	H(H1)	B	L	F	H2	T					
TNPR/L-1616K-320T	16	16	125	14.85	4	20	3.05	TN300..	HTM525	PL40	0.27
TNPR/L-2020K-320T	20	20	125	18.85	--						0.42
TNPR/L-2525M-320T	25	25	150	23.85	--						0.78

Description	GRADE 材質	Insert Shape	Dimensions,mm			
	5820		W	Re	L	K°
TN300..	●		3.05	0.2	20	--

端面開槽刀 Face Grooving Toolholders



KGDF



Right-hand shown

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..	HTM525	PL40	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..	HTM525	PL40	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..	HTM525	PL40	0.45
KGDFR-2020K-70100-4T20							70	100				0.45
KGDFR-2525M-3550-4T15	25	25	150	26	4	15	35	50	GDFM4020..	HTM525	PL40	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..	HTM525	PL40	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

Description	GRADE 材質		Insert Shape	Dimensions,mm				
	PR1225	PR1215		W	Re	M	L	H
GDFM 3020N-030GM	●	●		3	0.3	2.3	20	4.3
4020N-040GM	●	●		4	0.4	3.3		
5020N-040GM	●	●		5	0.4	4.2		

內徑車刀
BORING BARS

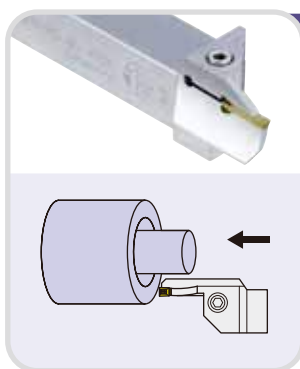
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

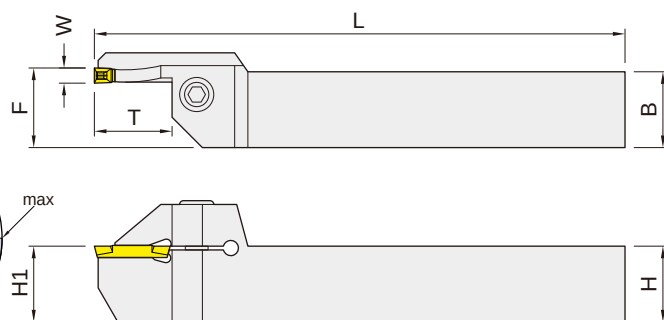
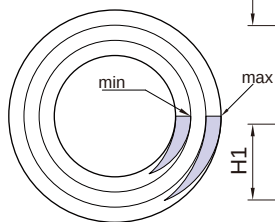
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



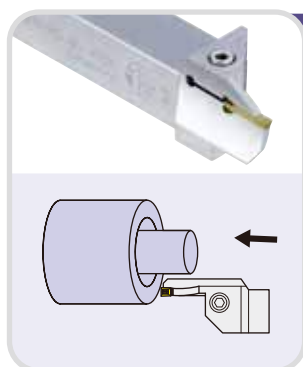
DGF



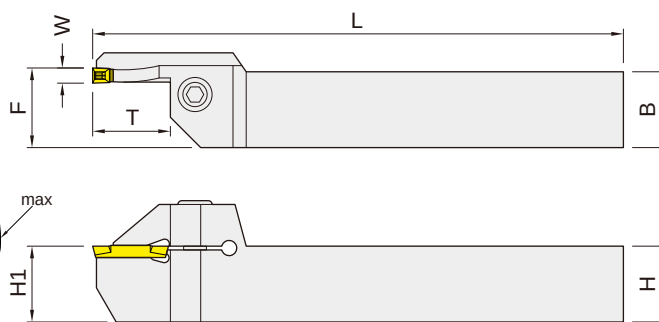
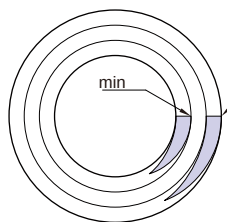
Right-hand shown

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	HTM525	PL40	0.42
DGFR/L-20-034-3T15							34	45				0.42
NEW 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	HTM525	PL40	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	HTM525	PL40	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	HTM525	PL40	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	HTM525	PL40	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	HTM525	PL40	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

Face Grooving Toolholders



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-20-050-5T15	20	20	125	21	3	15	50	70	DGM50CTF	HTM525	PL40	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	HTM525	PL40	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

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

內徑車刀
BORING BARS

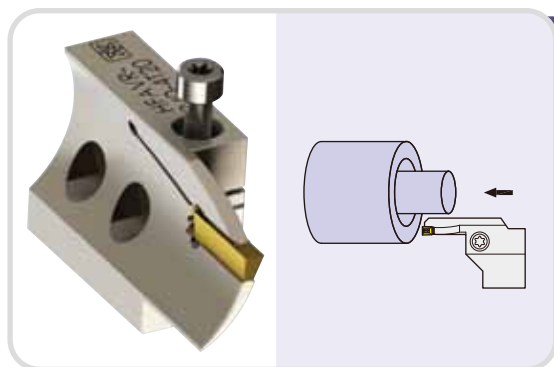
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

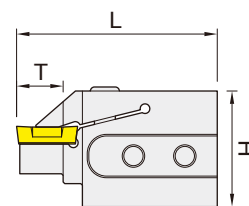
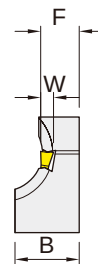
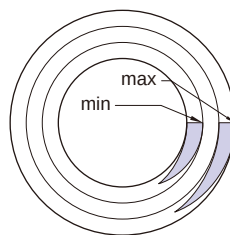
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



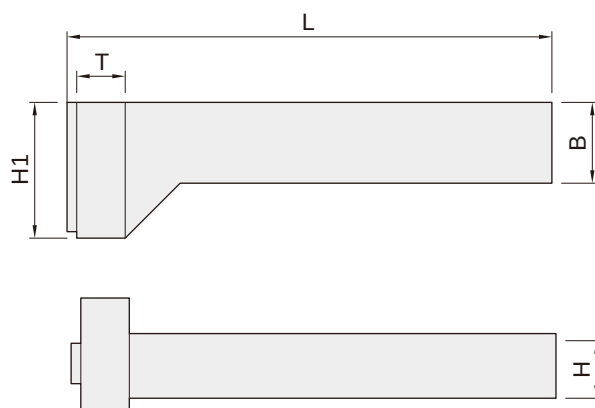
HFAVR



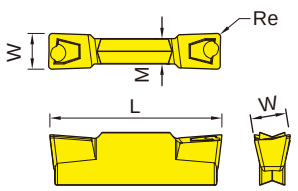
Item code	Dimensions,mm						Hole Diameter ØD		Insert	Screw 	Wrench 	Weight Kg	
	L	W	T	H	B	F	min	max					
HFAVR-029-3T13	63.5	3	13	36	20	12	29	34	HFPR30..	HTMT525	ETL25	0.20	
HFAVR-034-3T16			16				34	40					
HFAVR-040-3T16							40	48					
HFAVR-048-3T20							20	48					60
HFAVR-060-3T20			60					75					
HFAVR-075-3T20			13			75		100					
HFAVR-100-3T20						100		140					
HFAVR-140-3T20						140	200						
HFAVR-200-3T20						18.5	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					48
HFAVR-048-4T20								48					60
HFAVR-060-4T20			60					75					
HFAVR-075-4T20			14			75		100					
HFAVR-100-4T20						18.5	100	140					
HFAVR-140-4T20						17	140	200					
HFAVR-200-4T20						14.5	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 112 頁 See page 112 for holder.

Face Grooving Toolholders



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

Description		GRADE 材質		Insert Shape 	Dimensions,mm			
		IC354	IC908		W	Re	M	L
HFPR	3003	●			3	0.3	2.1	19
	4004	●			4	0.4	2.8	19
GRIP	4004Y				4	0.4	2.85	19

內徑車刀
BORING BARS

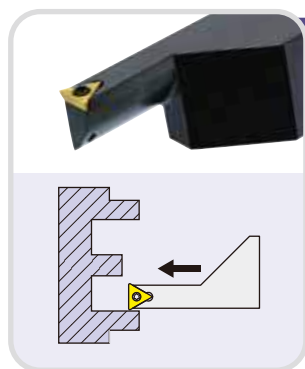
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

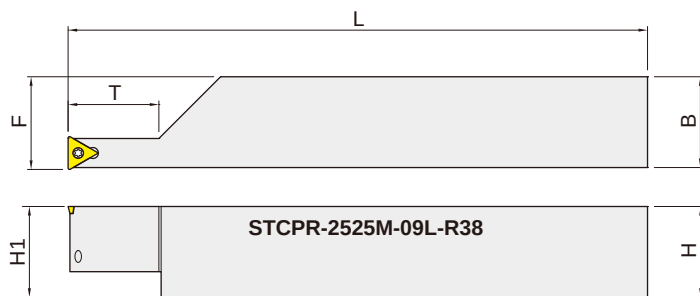
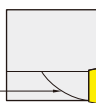
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

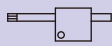


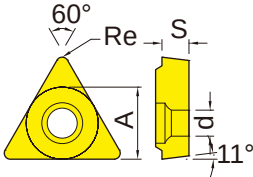
STCP

Left- shown
(09L)



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

Description	GRADE 材質								Insert Shape	Dimensions,mm				
	T1200	US735	PR930	NW948	NY942	HTi10	TN60	H01		CD10	A	S	d	Re
TP..090204											5.56	2.38	2.9	0.4

Face Grooving Toolholders

內徑車刀
BORING BARS

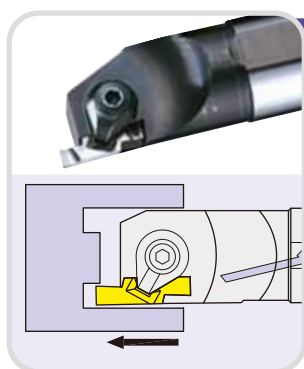
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

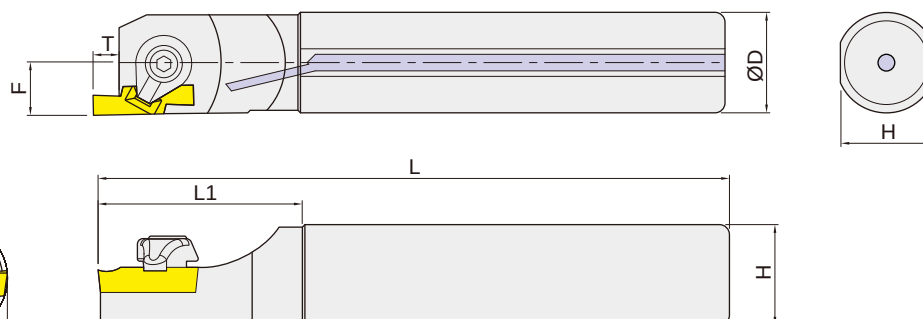
銑刀
MILLING

孔加工
BORING TOOL COMPONENTS

配件
SPARE PARTS



GIVFR

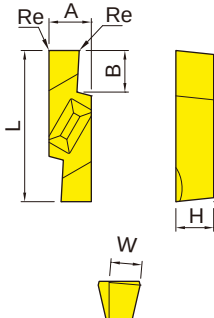


Coolant steel shank-right shown
中心出水鋼柄 右向示意圖

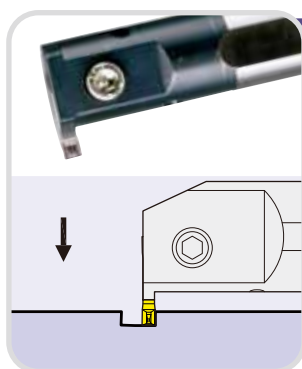
Item code		Dimensions,mm							端面切槽外徑 ØD1 Face grooving diameter		Insert	Clamp	Wrench	Weight Kg
Non coolant	Coolant	ØD	F	T	L	L1	H		min	max				
GIVFR-2220Q-B	GIVFR-A2220Q-B	20	10.5	5.1	180	30	18	22	∞		GVFR...B	CPS6F	PL30	0.49
GIVFR-2825R-B		25	13	5.1	200	45	23	28	∞			CPS6V		0.77
GIVFR-3532S-B		32	16.5	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

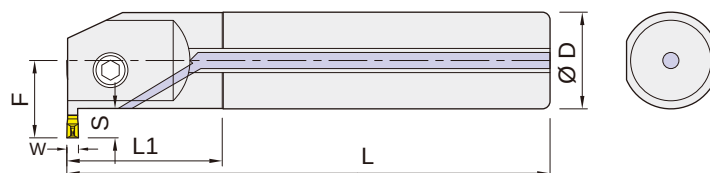
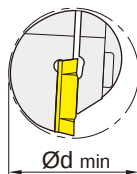
※() When face grooving diameter is smaller than ØD1 25, toolholder will interfere with workpiece.

Description		GRADE 材質			Insert Shape	Dimensions,mm					
		TC40N	PR930	KW10		W	※B	A	L	H	Re
GVFR	250B					2.50	4.8	5.8	20	5	0.2
	300B					3.00					
	350B					3.50					
	400B					4.00	5.3				
	430B					4.30					
	460B					4.60					
	490B					4.90					

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

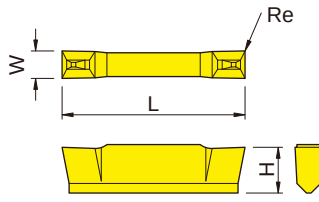


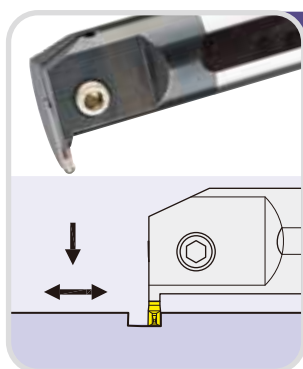
DGIR



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

	Steel shank		Dimensions,mm							Insert	Screw	Wrench	Weight Kg
	Non coolant	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	HTM520	PL40	0.44
NEW DGIR/L-0025R-3M-7.5L		DGIR-A0025R-3M-7.5L	25	200	40	20	37	7.5					0.77
NEW DGIR/L-0032S-3M-9.0L		DGIR-A0032S-3M-9.0L	32	250	48	25	46	9.0					1.58
NEW DGIR/L-0020Q-4M-6.5L		DGIR-A0020Q-4M-6.5L	20	180	40	16.5	31	6.5	4	DGM40CT	HTM520	PL40	0.44
DGIR/L-0025R-4M-7.5L			25	200	40	20	37	7.5					0.77
NEW DGIR/L-0032S-4M-9.0L		DGIR-A0032S-4M-9.0L	32	250	48	25	46	9					1.58
NEW DGIR-0032S-5-17.5L		DGIR-A0032S-5M-17.5L	32	250	48	33.5	55	17.5	5	DGM50CT	HTM520	PL40	1.58
DGIR-0040S-5-20L			40	250	48	40	65	20			HTM525		2.47

Description		GRADE 材質			Insert Shape	Dimensions,mm			
		GT25	GY55	GV65		W	L	H	Re
DGM	30CT	●	○	●		3	20	5	0.4
	40CT	●	○	●		4	20	5	0.4
	50CT	●				5	25	6	0.4



KIGMR

FIG-1

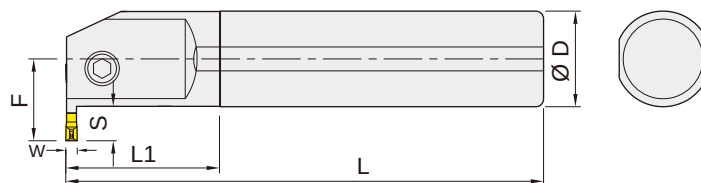
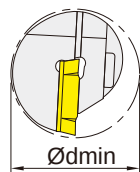
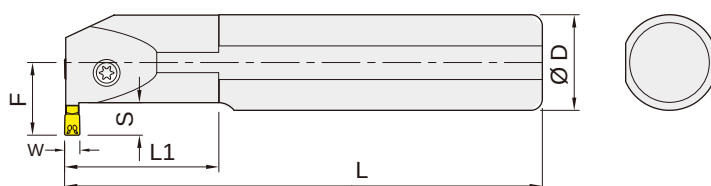
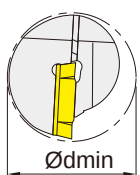


FIG-2



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

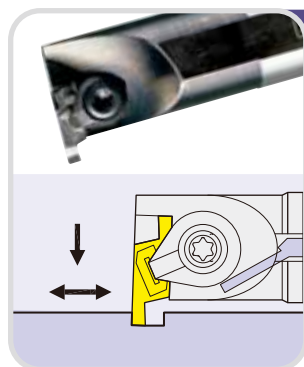
孔加工
BORING TOOL COMPONENTS

配件
SPARE PARTS

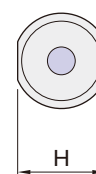
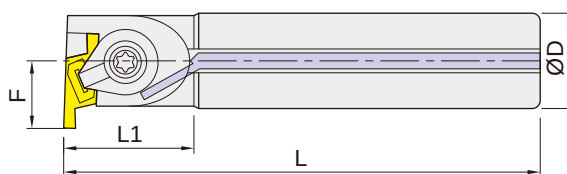
FIG-1 Item code	Dimensions,mm							Insert	Screw	Wrench	Weight Kg
	D	L	L1	F	dmin	S	W				
KIGMR-S20Q-3T07	20	180	35	17	28	7	3	GDM3020..	HTM516	PL40	0.44
KIGMR-S25R-3T09	25	200	40	21.5	35	9	3		HTM520	PL40	0.77

FIG-2 Item code	Dimensions,mm							Insert	Screw	Wrench	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-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

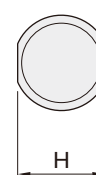
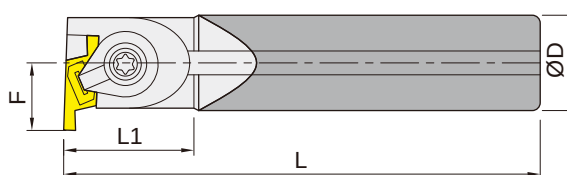
Description	GRADE 材質			Insert Shape	Dimensions,mm				
	PR930	KW10	PR1225		W	L	H	M	Re
GDM 3020N-...			●		3.0	20	4.3	2.3	0.3
4020N-...			●		4.0			3.3	
3020N-150R			●		3.0	20	4.3	2.3	1.5
4020N-200R			●		4.0			3.3	
GMM 3014-04	○				3.0	14	4.3	2.3	0.4
4020-040V	●	●			4.0	20		3.3	



GIVR



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

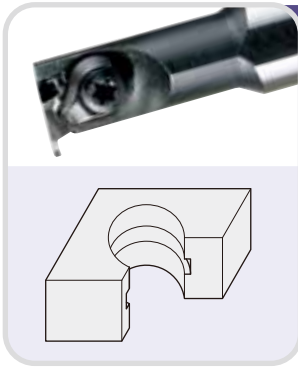


Carbide shank-right shown
鎢鋼柄 右向示意圖

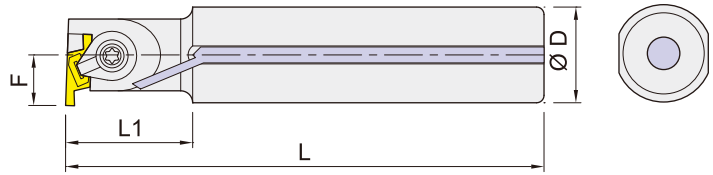
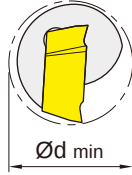
Steel shank Item code		Dimensions,mm					Insert		Clamp	Wrench	Weight Kg
Non coolant	Coolant	D	L	L1	F	dmin					
GIVR-1108K-1SS	GIVR-A1108K-1SS	08	125	20	7	11	GVR...SS	GVR100SS~300SS	CPS4V	ETF10	0.05
GIVR-1310K-1S	GIVR-A1310K-1S	10	125	25	8	13	GVR...S	GVR100S~340S	CPS5F-1	ETF15	0.08
GIVR-1512M-1A	GIVR-A1512M-1A	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
Non coolant	Coolant	D	L	L1	F	dmin					
NEW GIVR-C1108K-1SS		08	125	20	7	11	GVR...SS	GVR100SS~300SS	CPS4V	ETF10	0.09
NEW GIVR-C1512M-1A		12	150	30	9	15	GVR...A	GVR100A~340A	CPS5F	ETF15	0.24

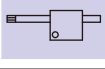
※刀片請參考 119 頁 See page 119 for insert.



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
Non coolant	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 119 頁 See page 119 for insert.

內徑車刀
BORING BARS

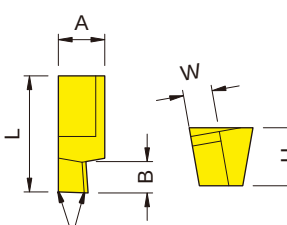
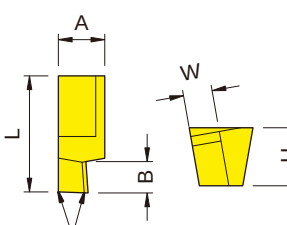
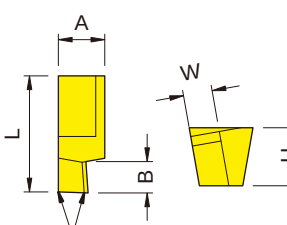
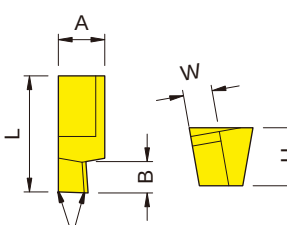
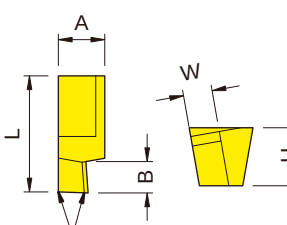
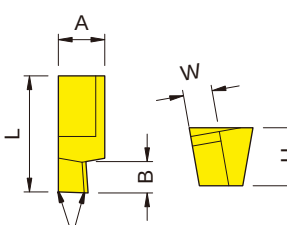
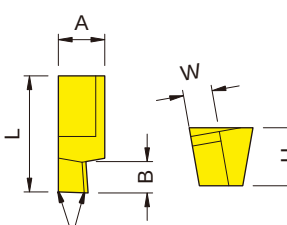
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

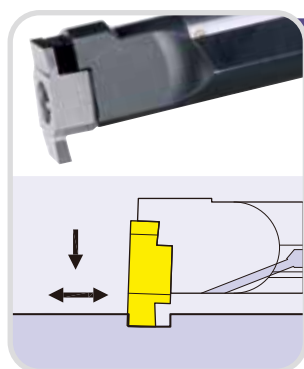
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Description		GRADE 材質		Insert Shape	Dimensions,mm					
		TC40	TC60		W	✕B	Re	A	L	H
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					
GVR/L	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	5.0
	125A		●		1.25					
	145A		●		1.45					
	185A		●		1.85					
	200A		●		2.00					
	250A		●		2.50					
	300A		●		3.00					
	340A		●		3.40					
GVR/L	145B		●		1.45	2.8	0.2	4.5	15	5.5
	185B		●		1.85					
	200B		●		2.00	3.2				
	230B		●		2.30					
	250B		●		2.50	4.2				
	280B		●		2.80					
	300B		●		3.00					
	340B		●		3.40					
	400B		●		4.00					
GVR/L	280C		●		2.80	4.5	0.2	5.8	21	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			●					
125AR			●	2.50	1.25					
150AR			●	3.00	1.50					
GVR/L	100BR		●		2.00	3.2	1.00	4.5	15	5.5
	150BR		●		3.00	4.2	1.50			

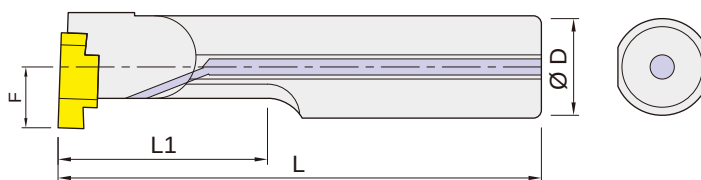
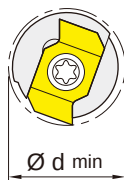
※B尺寸表示最大加工深度(Dimension B shows max grooving depth)

內徑開槽刀 Internal Grooving Toolholders



FSL51

功能: 內徑
開槽 Grooving
螺紋 Threading



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
Non coolant	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	

Description		GRADE 材質	Insert Shape	Dimensions,mm						
		NM936		W	L	H	A	S	Re	Rc
MLT	1001L	○	 MLT10..	--	7	5	--	2.38	0.1	--
	1401L	○		--	11.8	6.5	--	4.76	0.1	--
	2001L	○		--	16.8	9.03	--	6.35	0.1	--
MLG	1012L	●	 MLG10..	1.2	7	5	1.0	2.38	--	0.1
	1015L	●		1.5						
	1020L	●		2						
MLG	1415L	●	 MLG14,20..	1.5	11.8	6.5	2.0	4.76	--	0.1
	1420L	●		2						
	1430L	●		3						
MLG	2020L	○	 MLG20..	2	16.8	9.03	3.0	6.35	--	0.1
	2030L	●		3						
	2040L	●		4						

內徑車刀
BORING BARS

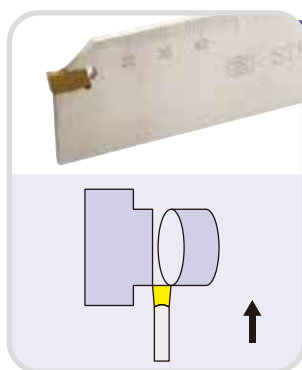
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

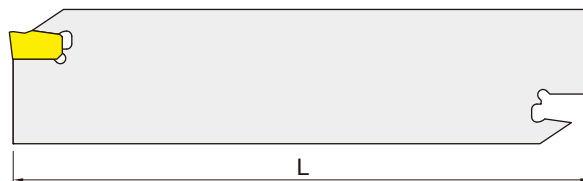
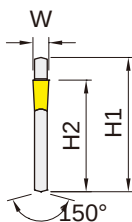
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

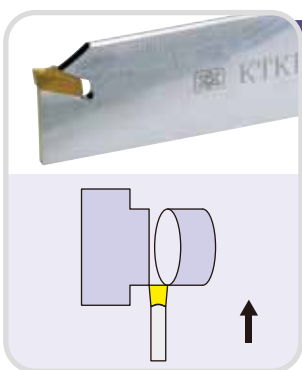


STFH

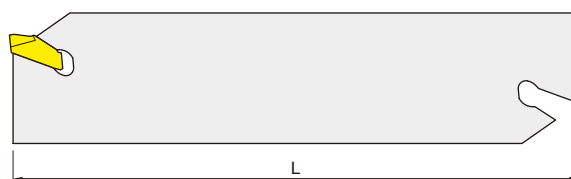
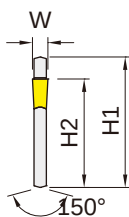


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
STFH 26-3	26	21.4	110	3	WCF_3_	SGTBU...-26 SGTBV25-26	ESG-1	0.08
STFH 32-3	32	25	150	3		SGTBU...-32		0.12

Description	GRADE 材質			Insert Shape	Dimensions,mm	
	AC830P	AC3000	AC225		W	Re
WCF N3	●				3	0.2



KTKB

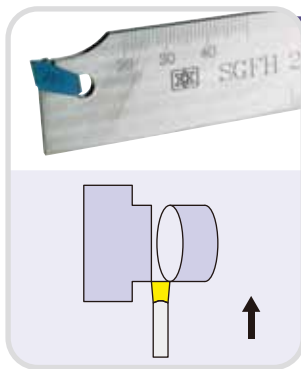


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
KTKB 26-3	26	21.4	110	3.1	TK N 3	SGTBU...-26	ESG-1	0.08
KTKB 26-4	26	21.4	110	4.1	TK N 4	SGTBV25-26		0.08
KTKB 32-3	32	25	150	3.1	TK N 3	SGTBU...-32		0.12
KTKB 32-4	32	25	150	4.1	TK N 4			0.12

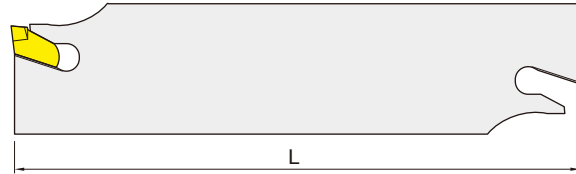
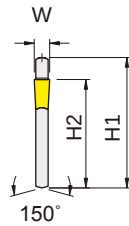
NEW

NEW

Description	GRADE 材質			Insert Shape	Dimensions,mm	
	TN90	PR660	PR930		W	Re
TKN 3	●				3.1	0.25
TKN 4	○				4.1	0.3

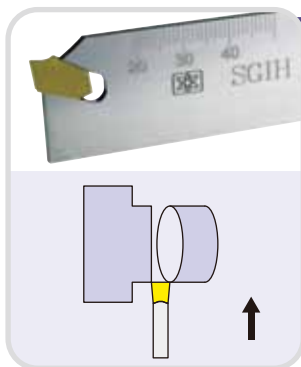


SGFH

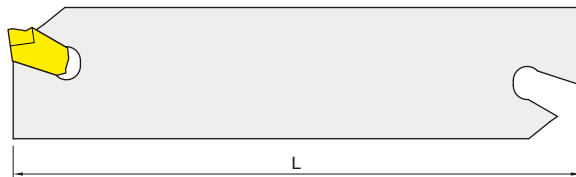
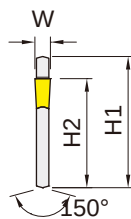


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
SGFH26-2	26	21.4	110	2.2/2.4	GFN 2/2.4	SGTBU...-26	ESG-1	0.08
SGFH26-3	26	21.4	110	3.0	GFN 3	SGTBV25-26		0.08
SGFH32-2	32	25	150	2.2/2.4	GFN 2/2.4	SGTBU...-32		0.09
SGFH32-3	32	25	150	3.0	GFN 3			0.12

Description	GRADE 材質		Insert Shape	Dimensions,mm	
	IC354	GV65		W	Re
GFN 2	○			2.2	0.16
GFN 2.4	○			2.4	0.16
GFN 3	●	●		3	0.2

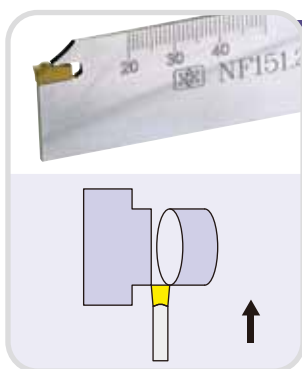


SGIH

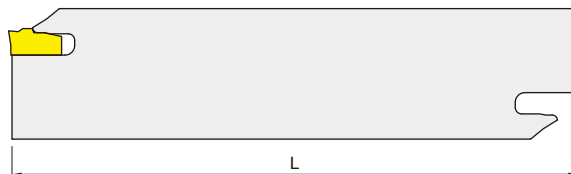
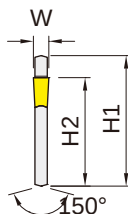


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
SGIH26-2	26	21.4	110	2.2/2.4	GTN 2/2.4	SGTBU...-26	ESG-1	0.07
SGIH26-3				3.1	GTN 3	SGTBV25-26		0.08
SGIH26-4				4.1	GTN 4			0.10
SGIH32-2	32	25	150	2.2/2.4	GTN 2/2.4	SGTBU...-32		0.09
SGIH32-3				3.1	GTN 3			0.12
SGIH32-4				4.1	GTN 4			0.15

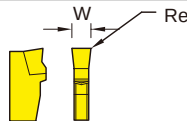
Description	GRADE 材質		Insert Shape	Dimensions,mm	
	IC354			W	Re
GTN 2	○			2.2	0.16
GTN 2.4				2.4	0.16
GTN 3	●			3.1	0.2
GTN 4	○			4.1	0.24

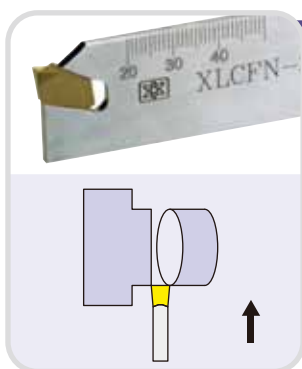


NF151.2

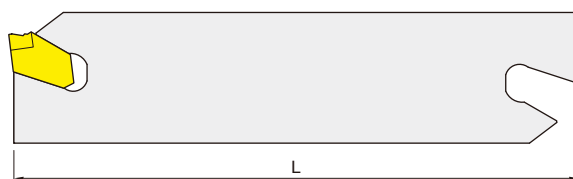
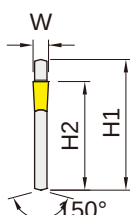


Item code	Dimensions,mm				Insert	TOOLBLOCK	Wrench	Weight Kg
	H1	H2	L	W				
NF151.2-26-20	26	21.4	110	2.0	N151.2-200..	SGTBU...-26 SGTBV25-26	ESG-1	0.07
NF151.2-32-20	32	25	150	2.0		SGTBU...-32		0.10

Description	GRADE 材質		Insert Shape	Dimensions,mm		
	4125	4025		W	Re	K°
N151.2-200-5E	●			2	0.2	--



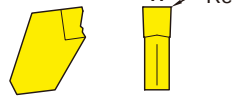
XLCFN



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

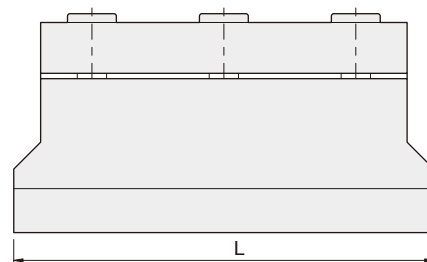
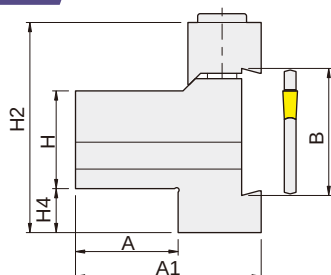
NEW

NEW

Description	GRADE 材質			Insert Shape	Dimensions,mm	
	GM40	CTPP345	SR127		W	Re
FX3.1 NO.15-M1	●				3.1	0.15
FX4.1 NO.20-M1		●			4.1	0.2



SGTBU

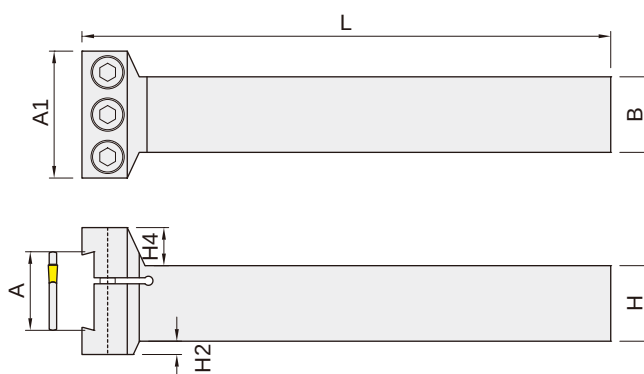


Item code	Dimensions,mm							Screw 	Wrench 	BLADE	Weight Kg
	H	B	A	A1	L	H2	H4				
SGTBU16-26	16	26	17	34	86	43	13	HTM630	PL50	SGIH26..	0.58
SGTBU20-26	20	26	21	38	86	43	9			SGFH26..	0.66
SGTBU25-26	25	26	23	40	86	43	4			KTkB26.. XLCFN26.. STFH26.. NF151.2-26..	0.77
SGTBU20-32	20	32	21	40	110	50	13			SGIH32..	0.97
SGTBU25-32	25	32	23	42	110	50	8			SGFH32.. KTkB32.. XLCFN32.. STFH32.. NF151.2-32..	1.08

NEW



SGTBV



Item code	Dimensions,mm							Screw 	Wrench 	BLADE	Weight Kg
	H	B	A	A1	L	H2	H4				
SGTBV25-26	25	25	26	42	125	4.4	11.6	HTM630	PL50	SGIH26.. SGFH26.. KTkB26.. XLCFN26.. STFH26.. NF151.2-26..	0.76

內徑車刀
BORING BARS

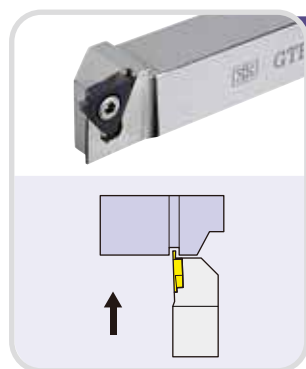
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

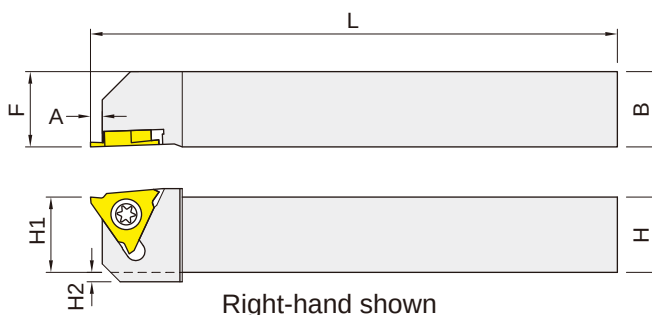
孔加工
BORING TOOLS COMPONENTS

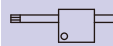
配件
SPARE PARTS

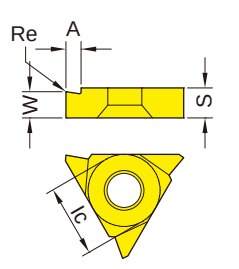


GTBH

功能:
開槽 Grooving



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

Description	GRADE 材質	Insert Shape	Dimensions,mm				
	NW948		W	A	Re	Ic	S
GTBT 14530V5R-U	●	 Right-hand	1.45	3.0	0.05	9.525	3.18
14530V5L-U	●		1.5				
15030V5R-U	●		1.75				
15030V5L-U	●		2.0				
17530V5R-U	●		2.5				
17530V5L-U	●		3.0				
20030V5R-U	●						
20030V5L-U	●						
GTCT 25030V5R-U	●						
25030V5L-U	●						
30030V5R-E	●						
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	不鏽鋼 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)

External Grooving Toolholders

內徑車刀
BORING BARS

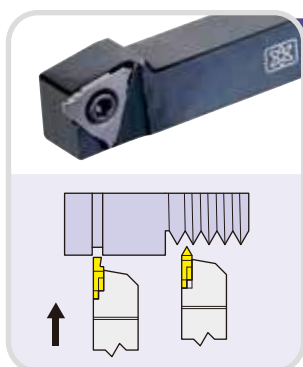
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

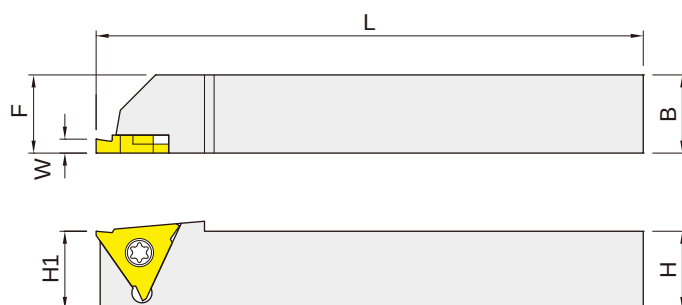
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



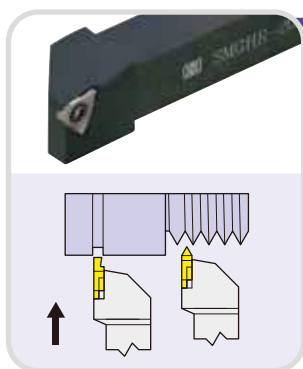
SGH2

功能:
開槽 Grooving
螺紋 Threading



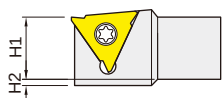
Right-hand shown

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

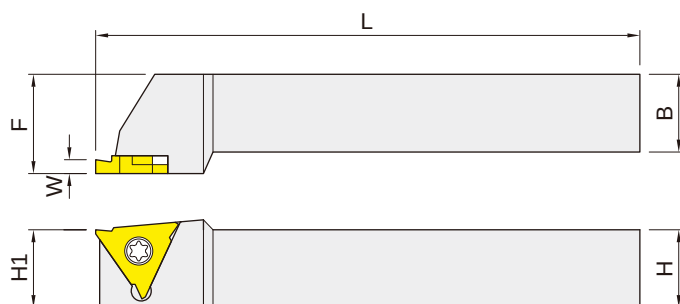


SGH

功能:
開槽 Grooving
螺紋 Threading



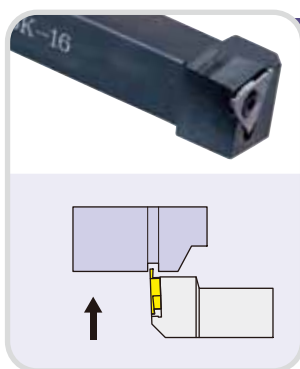
SGHR-1212K-16



Right-hand shown

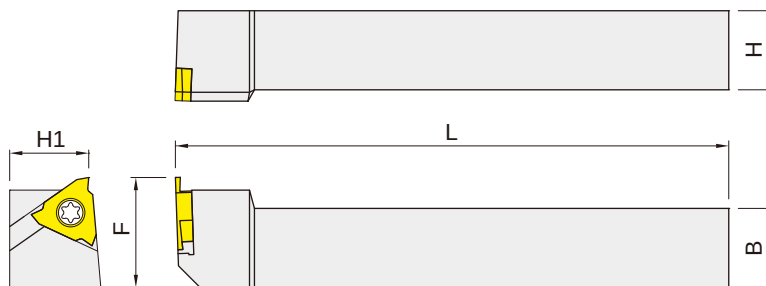
Item code	Dimensions,mm					Insert		Screw	Wrench	Weight Kg
	H (H1)	B	L	H2	F	開槽刀片 Grooving	車牙刀片 Threading			
SGHR-1212K-16	12	12	125	2	16	SMGTR 16X2... SMGTR 16X2...C	SMTTR 160360..	MS4008C	ETF10	0.17
SGHR-1616K-16	16	16	125	--	20					0.29
SGHR-2020K-16	20	20	125	--	25					0.45
SGHR-2525M-16	25	25	150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

※刀片請參考 127 頁 See page 127 for insert.



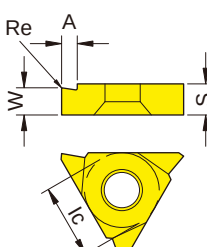
SGSL

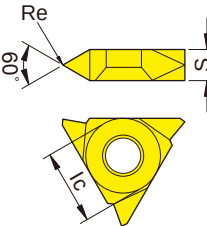
功能:
開槽 Grooving
螺紋 Threading



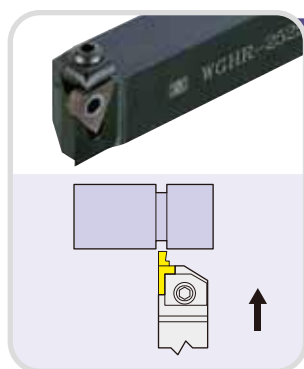
Left-hand shown

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

Description	GRADE 材質		Insert Shape	Dimensions,mm				
	NY942	NM304		W	A	Ic	S	Re
SMGTR16X2050			 Right-hand	0.50	1.5	9.525	2.0	--
16X2060				0.60	1.5			--
16X2050C	●			0.50	1.5	9.525	2.0	0.05
16X2060C	●			0.60	1.5	9.525	2.0	0.05
16X2070C	●			0.70	2.0			0.05
16X2075C	●			0.75	2.0	9.525	2.0	0.05
16X2080C	●			0.80	2.0			0.1
16X2090C	●			0.90	2.0	9.525	2.0	0.1
16X2095C	●			0.95	2.0			0.1
16X2100C	●			1.00	2.5	9.525	2.0	0.1
16X2110C	●			1.10	2.5			0.1
16X2120C	●			1.20	2.5	9.525	2.0	0.1
16X2130C				1.30	2.5			0.1

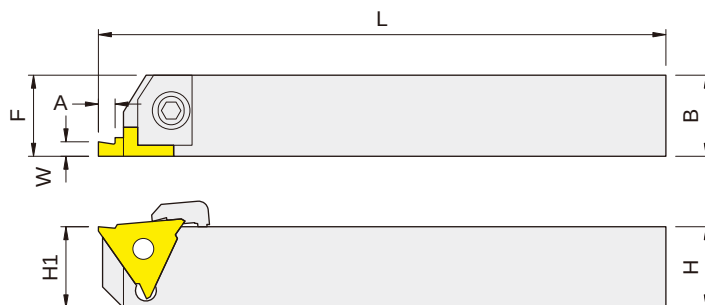
Description	GRADE 材質		Insert Shape	Dimensions,mm			
	NY140	NM936		Ic	S	Re	Pitch
SMTTR16036001			 Right-hand	9.525	3.18	0.10	1.0,1.25,1.5
16036002				9.525	3.18	0.20	1.75,2.0

External Grooving Toolholders



WGH

功能:
開槽 Grooving



Right-hand shown

內徑車刀
BORING BARS

外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

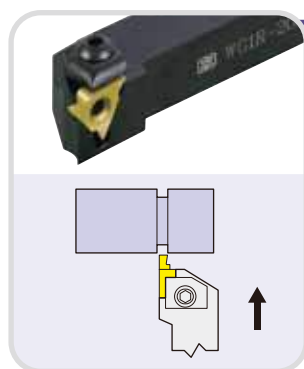
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Item code	Dimensions,mm					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	1.5~2.3						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
WGHR/L-1616K-4323	16	16	125	16	2.3~3.3						0.27
WGHR/L-2020K-4315	20	20	125	20	1.5~2.3						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	1.5~2.3						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

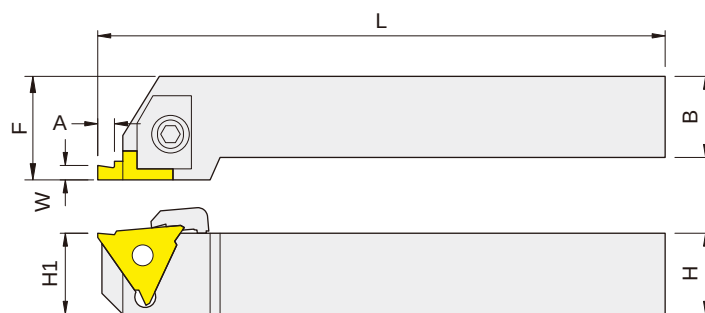
NEW

※刀片與A值 請參考 130 頁 See page 130 for insert & dimension A.



WG1

功能:
開槽 Grooving

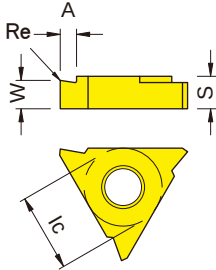
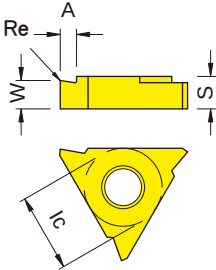


Right-hand shown

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/L 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	1.5~2.3						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	1.5~2.3						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	1.5~2.3						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	1.5~2.3						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

※刀片與A值 請參考 130 頁 See page 130 for insert & dimension A.

切槽刀片 Grooving Inserts

Description	GRADE 材質				Insert Shape	Dimensions,mm				
	NY942		GT25			W	A	Re	Ic	S
	R	L	R	L						
MGTR/L 33125 33145 33150 33175 33200 33230 33250 33270 33280 33300 33320 33330 33350 33400					 Right-hand	1.25	1.2	0.2	9.525	4.76
						1.45	1.5	0.2	9.525	4.76
						1.5	3.0	0.2	9.525	4.76
						1.75	3.0	0.2	9.525	4.76
						2.0	3.0	0.2	9.525	4.76
						2.3	3.0	0.2	9.525	4.76
						2.5	3.0	0.3	9.525	4.76
						2.7	3.0	0.3	9.525	4.76
						2.8	3.0	0.3	9.525	4.76
						3.0	3.0	0.3	9.525	4.76
						3.2	3.0	0.3	9.525	4.76
						3.3	3.0	0.3	9.525	4.76
						3.5	3.0	0.3	9.525	4.76
						4.0	3.0	0.3	9.525	4.76
MGTR/L 43125 43145 43150 43175 43200 43230 43250 43260 43270 43280 43300 43320 43330 43350 43400 43420 43430 43450 43470					 Right-hand	1.25	1.2	0.2	12.7	4.76
						1.45	1.5	0.2	12.7	4.76
						1.5	3.0	0.2	12.7	4.76
						1.75	3.0	0.2	12.7	4.76
	●		●			2.0	3.0	0.2	12.7	4.76
						2.3	3.0	0.2	12.7	4.76
			●			2.5	4.5	0.3	12.7	4.76
						2.6	4.5	0.3	12.7	4.76
						2.7	4.5	0.3	12.7	4.76
						2.8	4.5	0.3	12.7	4.76
			●			3.0	4.5	0.3	12.7	4.76
						3.2	4.5	0.3	12.7	4.76
						3.3	4.5	0.3	12.7	4.76
						3.5	4.5	0.3	12.7	4.76
						4.0	4.5	0.3	12.7	4.76
						4.2	4.5	0.4	12.7	4.76
						4.3	4.5	0.4	12.7	4.76
						4.5	4.5	0.4	12.7	4.76
						4.7	4.5	0.4	12.7	4.76

內徑車刀
BORING BARS

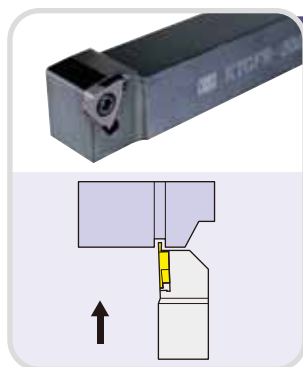
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

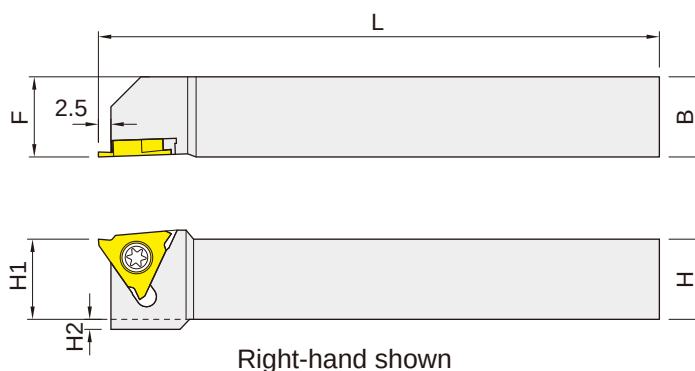
孔加工
BORING TOOLS COMPONENTS

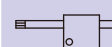
配件
SPARE PARTS

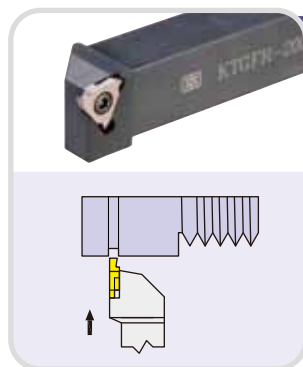


KTGF_F

功能:
開槽 Grooving

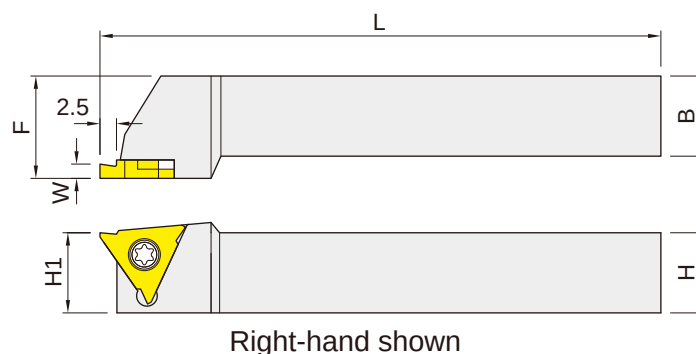


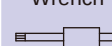
Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	H2	F				
KTGFR/L-1010K-16F	10	10	125	4	10	TGF32R/L..	MS4009A	ETF15	0.10
KTGFR-1012K-16F	10	12	125	2	12		MS4011A		0.14
KTGFR/L-1212K-16F	12	12	125	2	12				0.15
KTGFR/L-1616K-16F	16	16	125	--	16				0.27
KTGFR-2020K-16F	20	20	125	--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



KTGF

功能:
開槽 Grooving



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

External Grooving Toolholders

內徑車刀
BORING BARS

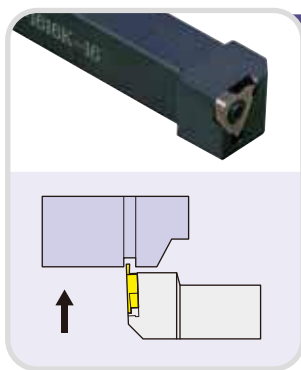
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

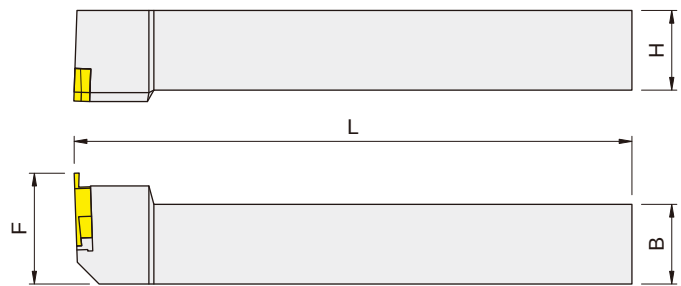
銑刀
MILLING

孔加工
BORING TOOL COMPONENTS

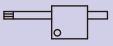
配件
SPARE PARTS

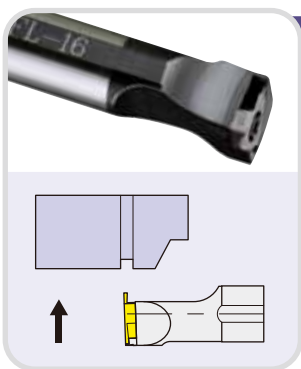


KTGFS

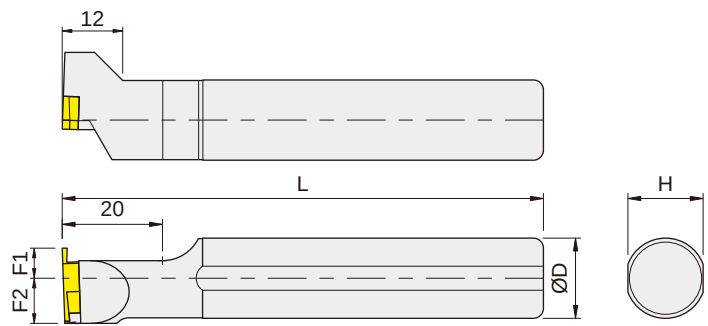
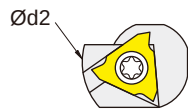


Left-hand shown

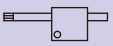
Item code	Dimensions,mm				Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F				
KTGFSL-1616K-16	16	16	125	22	TGF32R..	MS4009A	ETF15	0.29
KTGFSL-2020K-16	20	20	125	26				0.45

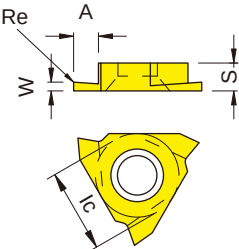


KTGFL



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

Description	GRADE 材質		Insert Shape	Dimensions,mm				
	TC40M	PR930		W	A	lc	S	Re
TGF32R 033				0.33	0.8	9.525	3.18	0.05
050		○		0.50	1.2			0.1
075		●		0.75	2.0			
095		●		0.95	2.0			
100		●		1.00	2.0			
125		●		1.25	2.0			
145		●		1.45	2.0			
150		●		1.50	2.0			
175		●		1.75	2.0			
200		●		2.00	2.5			
250		●		2.50	2.5			

內徑車刀
BORING BARS

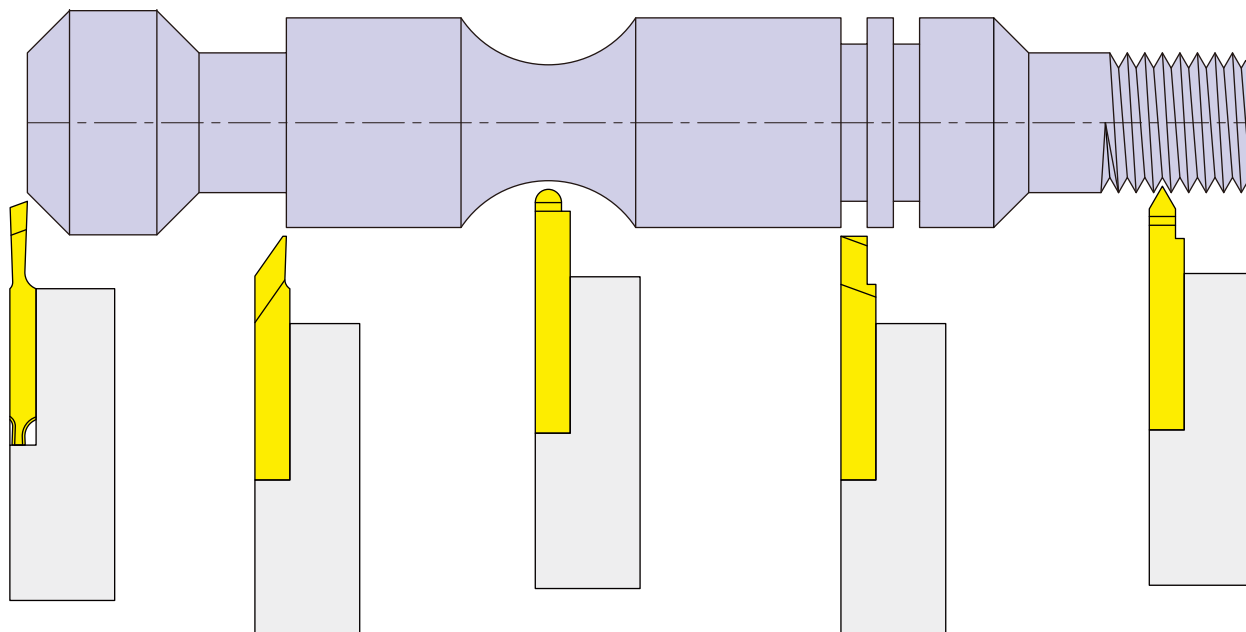
外徑車刀
TOOLHOLDERS

牙刀及開槽刀
THREADING & GROOVING

銑刀
MILLING

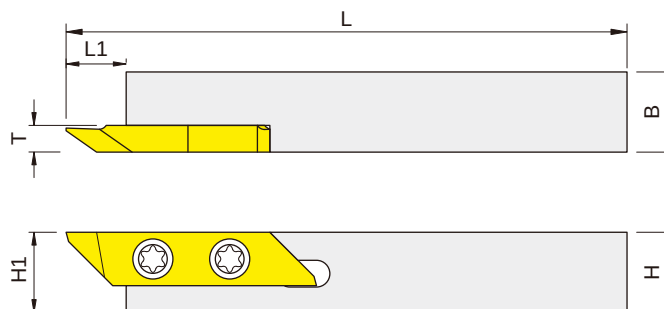
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

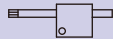


SAKGR

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

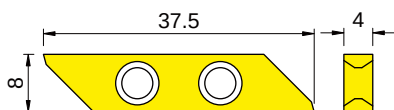


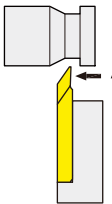
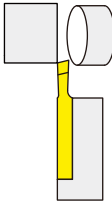
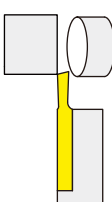
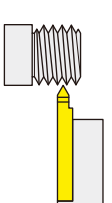
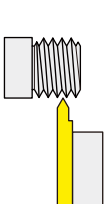
Right-hand shown

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



Insert Shape	Description	Dimensions,mm				Uncoated	Coated	
		W	Re	L2	K	GX02	GT25	GN35
 後掃刀片 Back turning	AKBR-32010	2	0.1	5	35	●	●	●
	AKBR-32020		0.2	5		●	●	●
	AKBR-33010	3	0.1	5	35	●	●	●
	AKBR-33020		0.2	5		●	●	●
 切斷刀片 Parting off	AKCR-3150-R85	1.5	0.1	8.5	15	●	○	●
	AKCR-3200-R90	2.0		9.0		●	●	●
	AKCR-3250-R90	2.5					●	●
	AKCR-3300-R90	3.0					●	●
 切斷刀片 Parting off	AKPR-3150-R85	1.5	0.1	8.5	15	●	●	●
	AKPR-3200-R90	2.0		9.0		●	●	●
	AKPR-3250-R90	2.5				●	●	●
	AKPR-3300-R90	3.0				●	●	●
 牙刀片 Threading	AKTR-3205505-N	2	0.05	6	55	●	●	
	AKTR-3305510-N	3	0.10			●	●	
	AKTR-3206005-N	2	0.05	6	60	●	●	●
	AKTR-3306010-N	3	0.10			●	●	●
 牙刀片 Threading	AKTR-3205505-NP	2	0.05	6	55	●	●	
	AKTR-3305510-NP	3	0.10			●	●	
	AKTR-3206005-NP	2	0.05	6	60	●	●	●
	AKTR-3306010-NP	3	0.10			●	●	●

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

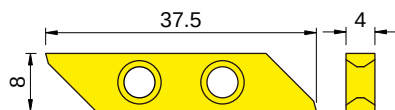
牙刀 & 開槽刀
THREADING & GROOVING

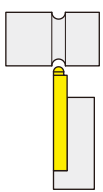
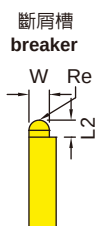
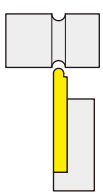
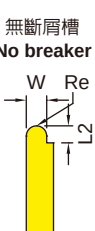
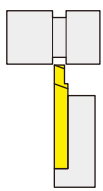
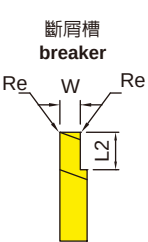
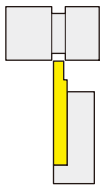
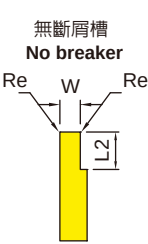
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Insert Shape



Insert Shape	Description	Dimensions,mm				Uncoated	Coated			
		W	Re	L2	K	GX02	GT25	GN35	GA45	
 圓槽刀片 Insert with radius	 斷屑槽 breaker	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	 無斷屑槽 No breaker	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	2.0	8.0			●		
 插掃刀片 Grooving and turning	 斷屑槽 breaker	AKGR-3100-0130	1.0	0.1	3.0		●			●
		AKGR-3150-0130	1.5	0.1	3.0					
		AKGR-3200-0150	2.0	0.1	5.0					
		AKGR-3250-0150	2.5	0.1	5.0					
		AKGR-3300-0150	3.0	0.1	5.0			●	●	
		AKGR-3300-0190	3.0	0.1	9.0					
		AKGR-3100-0230	1.0	0.2	3.0			●		
		AKGR-3100-0250	1.0	0.2	5.0					
		AKGR-3150-0250	1.5	0.2	5.0		●	●		●
		AKGR-3200-0250	2.0	0.2	5.0		●	●		●
		AKGR-3250-0250	2.5	0.2	5.0		●	●	●	
		AKGR-3300-0290	3.0	0.2	9.0			●	●	
 插掃刀片 Grooving and turning	 無斷屑槽 No breaker	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			●		○



內徑車刀
BORING BARS

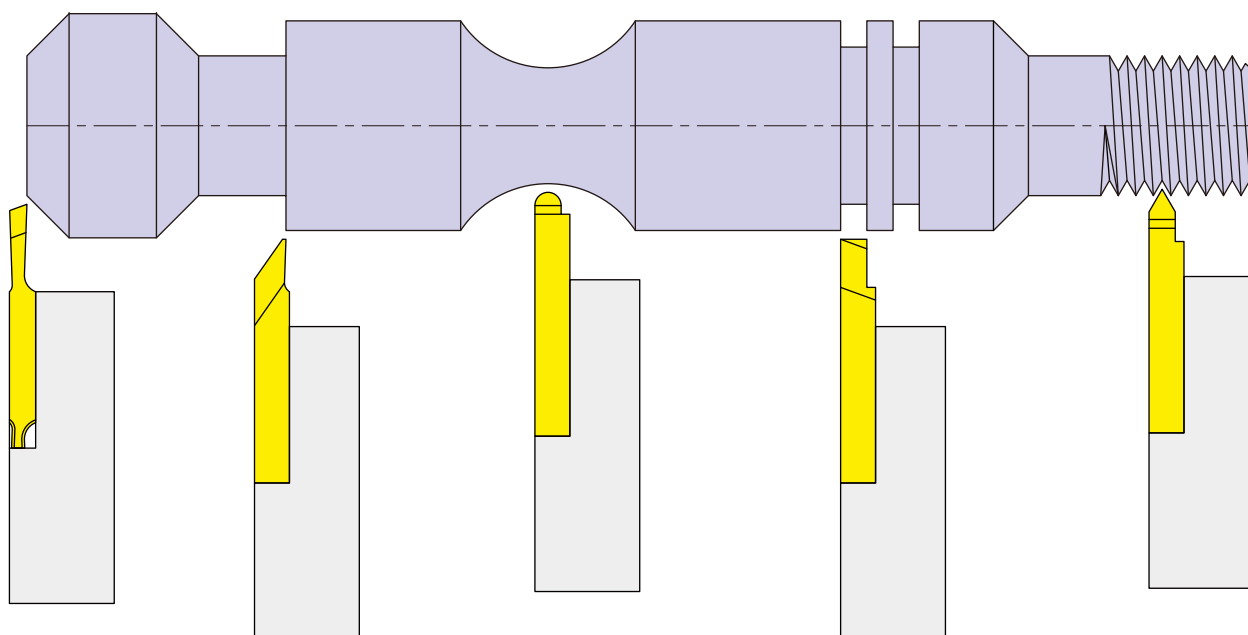
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

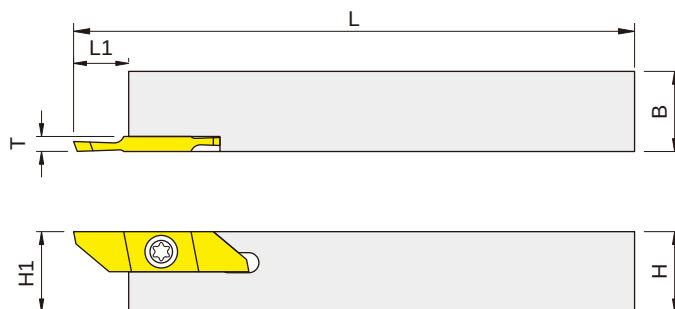
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

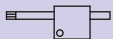


SDKG

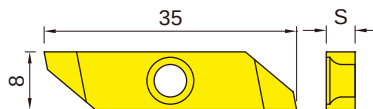
功能:
開槽 Grooving and turning
螺紋 Threading
切斷 Parting off
後掃 Back turning

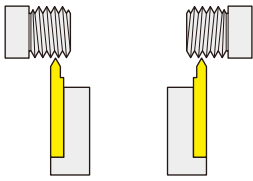
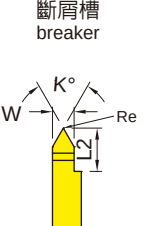
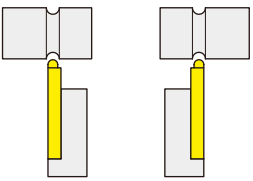
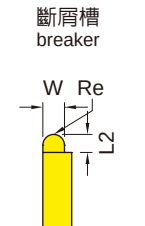
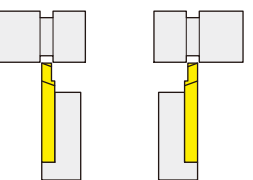
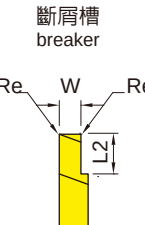
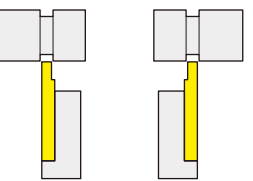
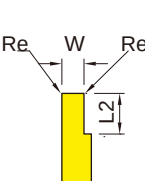


Right-hand shown

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	ETF15	0.10
SDKGR/L-1212M-354	12	12	150	11	4		MS4011A		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

Insert Shape

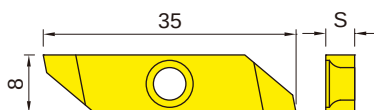


Insert Shape	Description	Dimensions,mm					Uncoated	Coated
		S	W	K	Re	L2	GX06	GT29
 牙刀片 Threading	 斷屑槽 breaker	4	3.0	55	0.1	6	○	○
			2.0	60	0.05	6	○	○
			3.0	60	0.1	6	●	●
			3.0	60	0.2	6	●	●
		4	2.0	60	0.05	6	●	●
			3.0	60	0.1	6	●	●
			3.0	60	0.2	6		
 圓槽刀片 Insert with radius	 斷屑槽 breaker	4	1.0		0.5	2.5	●	●
			1.5		0.75	5.0	●	●
			2.0		1.0	6.0	●	●
			2.5		1.25	8.0	●	●
			3.0		1.5	8.0	●	●
			3.5		1.75	10.0	●	●
			4.0		2.0	10.0	●	●
		4	1.0		0.5	2.5		
			1.5		0.75	5.0		
			2.0		1.0	6.0		
			2.5		1.25	8.0		
			3.0		1.5	8.0		
			3.5		1.75	10.0		
			4.0		2.0	10.0		
 插掃刀片 Grooving and turning	 斷屑槽 breaker	4	1.0		0.1	2.5	●	●
			1.5		0.1	3.0	●	●
			2.0		0.1	4.0	●	●
			2.5		0.1	6.0	●	●
			3.0		0.1	8.0	●	●
		4	1.0		0.1	2.5		
			1.5		0.1	3.0		
			2.0		0.1	4.0		
			2.5		0.1	6.0		
			3.0		0.1	8.0		
		4	1.0		0.1	2.5		○
			1.5		0.1	3.0		○
			2.0		0.1	4.0		○
			2.5		0.1	6.0		○
			3.0		0.1	8.0		○
 插掃刀片 Grooving and turning	 無斷屑槽 No breaker	4	1.0		0.1	2.5		○
			1.5		0.1	3.0		○
			2.0		0.1	4.0		○
			2.5		0.1	6.0		○
			3.0		0.1	8.0		○

NEW
NEW
NEW
NEW
NEW



Insert Shape



Insert Shape	Description	Dimensions,mm					Uncoated	Coated
		S	W	K	Re	L2	GX06	GT29
 後掃刀片 Back turning	DKBR-43005	4	3.0	35	0.05	8.5		
	DKBR-43010		3.0	35	0.1	8.5		
	DKBR-43020		3.0	35	0.2	8.5		
	DKBL-43005	4	3.0	35	0.05	8.5		
	DKBL-43010		3.0	35	0.1	8.5		
	DKBL-43020		3.0	35	0.2	8.5		
	DKBR-44005	4	4.0	35	0.05	8.5		
	DKBR-44010		4.0	35	0.1	8.5	●	●
	DKBR-44020		4.0	35	0.2	8.5	●	●
	DKBL-44005	4	4.0	35	0.05	8.5		
	DKBL-44010		4.0	35	0.1	8.5		
	DKBL-44020		4.0	35	0.2	8.5		
 切斷刀片 Parting off	DKCR-3150R1085	3	1.5	15	0.1	8.5	●	●
	DKCR-3200R10A5		2.0	15	0.1	10.5	●	●
	DKCR-3250R10A5		2.5	15	0.1	10.5	●	●
	DKCR-3300R10A5		3.0	15	0.1	10.5	●	●
	DKCL-3150L1085	3	1.5	15	0.1	8.5		
	DKCL-3200L10A5		2.0	15	0.1	10.5		
	DKCL-3250L10A5		2.5	15	0.1	10.5		
	DKCL-3300L10A5		3.0	15	0.1	10.5		
 切斷刀片 Parting off	DKPR-3150R1085	3	1.5	15	0.1	8.5	●	●
	DKPR-3200R10A5		2.0	15	0.1	10.5	●	●
	DKPR-3250R10A5		2.5	15	0.1	10.5	●	●
	DKPR-3300R10A5		3.0	15	0.1	10.5	●	●
	DKPL-3150L1085	3	1.5	15	0.1	8.5		
	DKPL-3200L10A5		2.0	15	0.1	10.5		
	DKPL-3250L10A5		2.5	15	0.1	10.5		
	DKPL-3300L10A5		3.0	15	0.1	10.5		

內徑車刀
BORING BARS

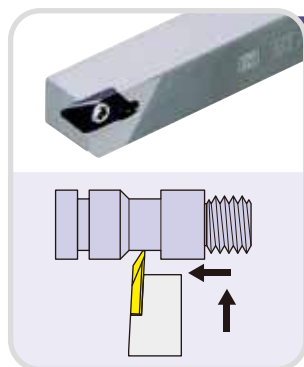
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

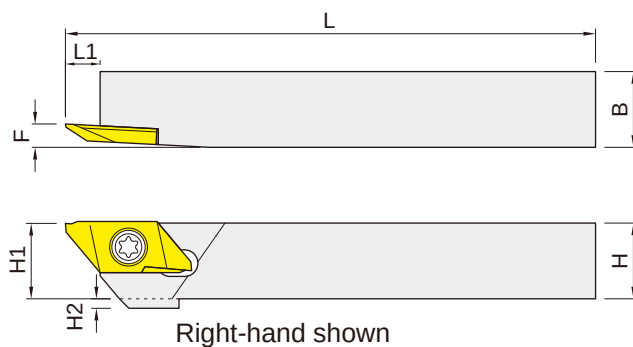
孔加工
BORING TOOLS COMPONENTS

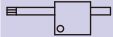
配件
SPARE PARTS

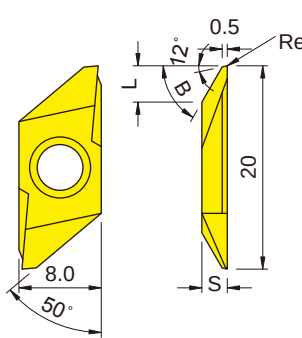


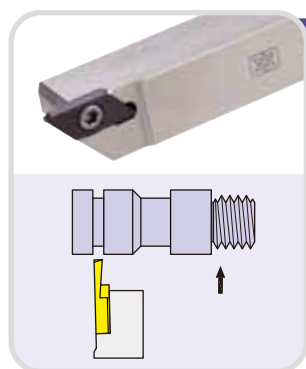
BTAH

功能:
後掃 Back turning



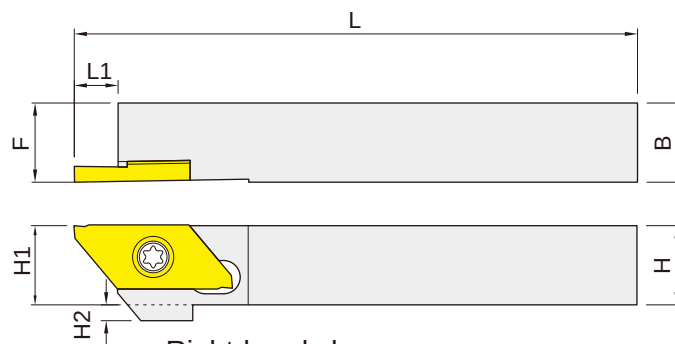
Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	L1	F	H2				
BTAHR/L-1010K-50	10	10	125	5.5	3.5	2	BTAT5528..R/L-B BTAT6035..R/L-B	MS4009A	ETF15	0.10
BTAHR/L-1212K-50	12	12	125	5.5	3.5	--		MS4011A		0.14
BTAHR/L-1616K-50	16	16	125	5.5	3.5	--				0.25

Description	GRADE 材質 NW948	Insert Shape	Dimensions,mm			
			B	L	S	Re
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



CTAHR

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

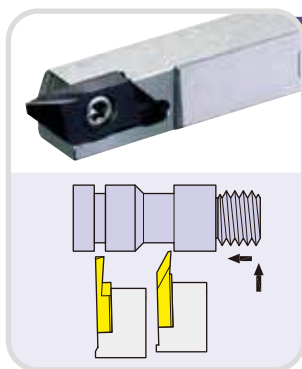
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

NEW

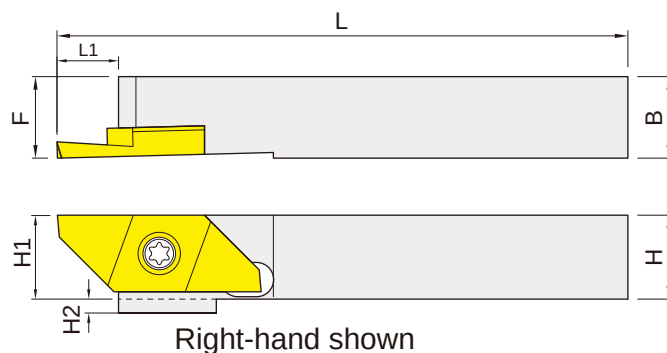
Item code	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	L1	F	H2				
CTAHR-1010K-120	10	10	125	5.5	10	2	CTAT.....	MS4009A	ETF15	0.10
CTAHR-1212K-120	12	12	125	5.5	12	--		MS4011A		0.14
CTAHR-1616K-120	16	16	125	5.5	16	--				0.25
CTAHR-2020K-120	20	20	125	5.5	20	--				0.42

Description	GRADE 材質	Insert Shape	Dimensions,mm			
	NW948		W	L	S	Re
CTAT10120V5RN-B	●		1.0	6.7	2.5	0.05
CTAT15120V5RN-B			1.5	6.7	2.5	0.05
CTAT20120V5RN-B			2.0	6.7	2.5	0.05



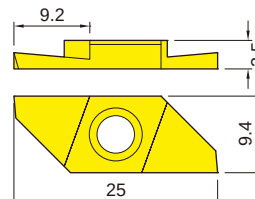
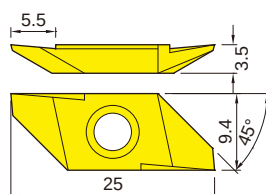
CTBHR

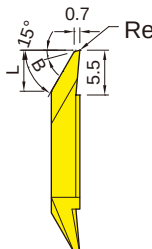
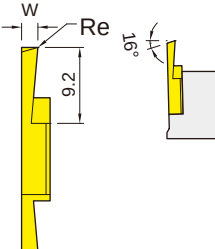
功能:
開槽 Grooving and turning
切斷 Parting off
後掃 Back turning

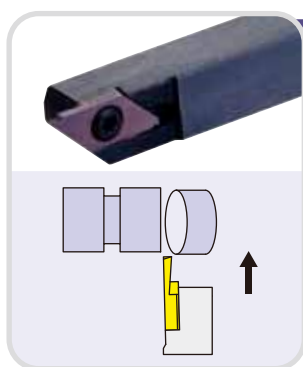


Item code	Dimensions,mm						Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	L1	F	H2				
CTBHR-1010K-160	10	10	125	7.5	10	2	BTBT604500R-B CTBT20160V5RR-B	MS4009A	ETF15	0.1
CTBHR-1212K-160	12	12	125	7.5	12	--		MS4011A		0.14
CTBHR-1616K-160	16	16	125	7.5	16	--				0.25
CTBHR-2020K-160	20	20	125	7.5	20	--				0.39

Insert Shape

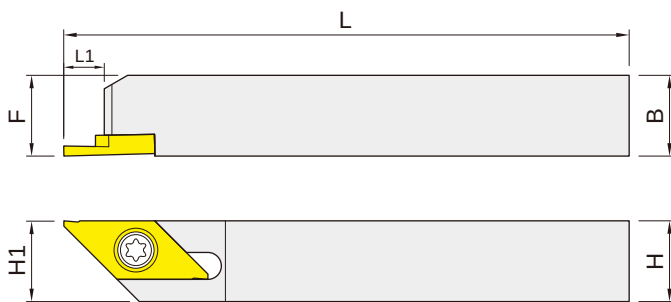


Description	GRADE 材質	Insert Shape	Dimensions,mm			
	NW948		B	L	W	Re
BTBT604500R-B	●		60°	4.5	--	0.0
BTBT604501R-B			60°	4.5	--	0.1
BTBT606000R-B			60°	6.0	--	0.0
CTBT15160V5RR-B	●		--	--	1.5	0.05
CTBT20160V5RR-B			--	--	2.0	0.05



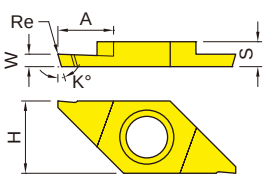
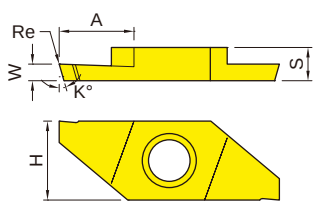
KTKF

功能:
切斷 Parting off



Right-hand shown

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight Kg
	H (H1)	B	L	F	L1	L2				
KTKFR/L-1010K-12A	10	10	125	10	6	15	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	TKF16R/L..	MS4509TRV	ETF10	0.10
KTKFR/L-1010K-16A	10	10	125	10	8	20				0.10
KTKFR/L-1212M-16	12	12	150	12	8	--				0.17

Description	GRADE 材質	Insert Shape	Dimensions,mm					
	PR1225		W	A	K	H	S	Re
TKF12R 050-S-16DR	●		0.5	2.5	16	8.7	3	0.03
070-S-16DR			0.7	4				
100-S-16DR			1.0	6				
150-S-16DR			1.5	6				
200-S-16DR			2.0	6				
TKF16R 150-S-16DR	●		1.5	8	16	9.5	4	0.05
200-S-16DR			2.0	8				

內徑車刀
BORING BARS

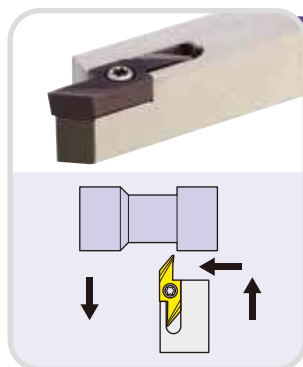
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

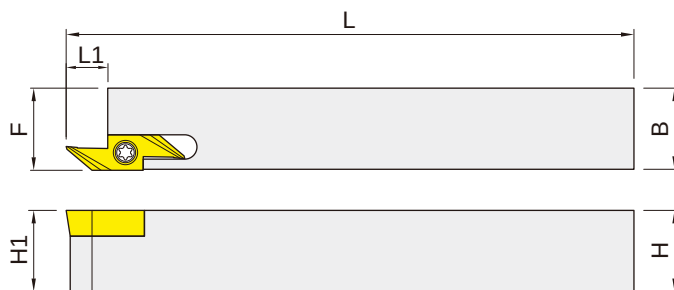
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



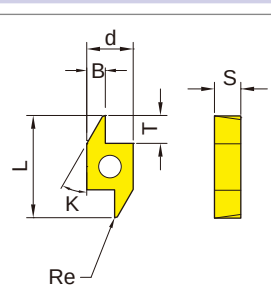
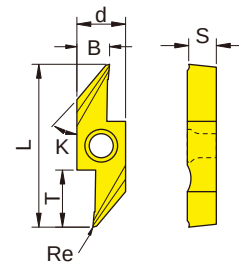
SAB_R

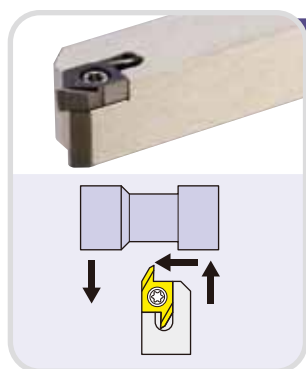
功能:
後掃 Back turning



Right-hand shown

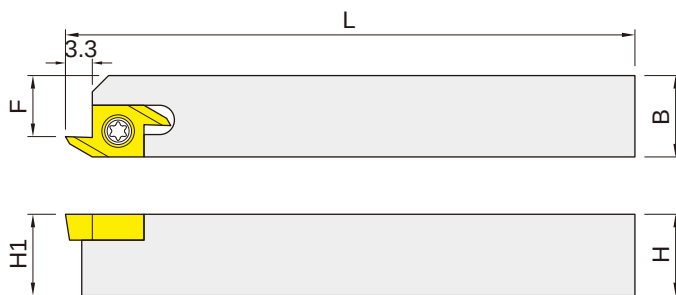
Item code	Dimensions,mm					Insert	Screw	Wrench	Weight Kg
	H (H1)	B	L	F	L1				
SABSR-1010K-40F	10	10	125	10.2	4.2	ABS15R..	MS3008A	ETF09	0.10
SABSR-1212K-40F	12	12	125	12.2	4.2				0.14
SABWR-0810K-40F	8	10	125	10.2	4.2	ABW15R..	MS3008B	ETF09	0.08
SABWR-1010K-40F	10	10	125	10.2	4.2				0.10
SABWR-1212K-40F	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

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



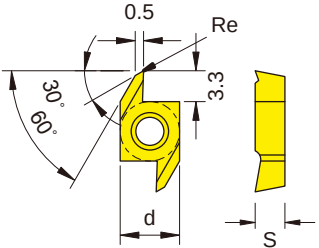
JSEGR

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

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

內徑車刀
BORING BARS

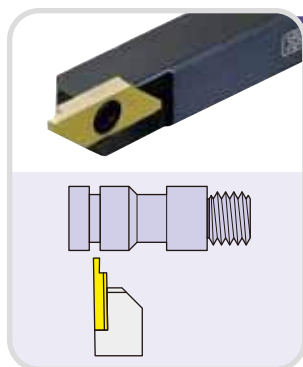
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

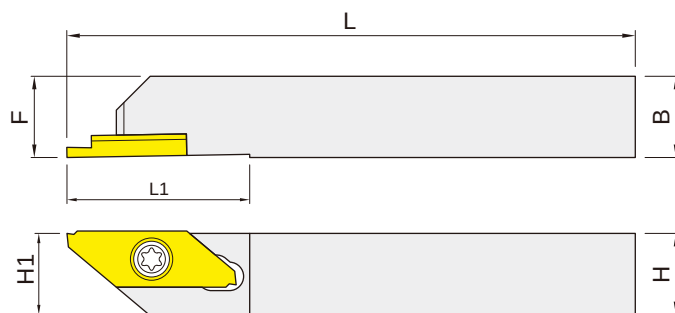
孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

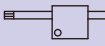


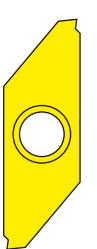
SMALR

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

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