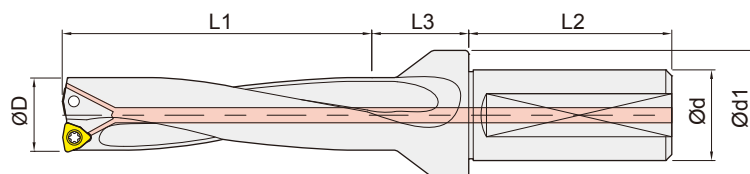


孔加工

BORING TOOLS COMPONENTS





內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

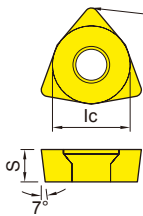
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

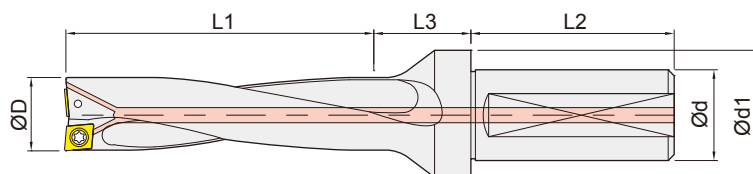
配件
SPARE PARTS

NEW
NEW

Item code	L1	Weight (kg)	Item code	L1	Weight (kg)	Item code	L1	Weight (kg)	Dimensions, mm					Insert
									D	d	d1	L2	L3	
DW18-C20-27(1.5D)	27	0.26	DW18-C20-54(3D) DW19-C20-57(3D) DW20-C20-60(3D)	54 57 60	0.26 0.27 0.28				18.0	20	29	52	24	WC..030208
DW18.5-C20-28(1.5D)	28	0.27							18.5					
DW18-C20-36(2D)	36	0.24							18.0					
DW19-C20-38(2D)	38	0.24							19.0					
DW20-C20-40(2D)	40	0.26							20.0					
DW18-C25-36(2D)	36	0.35	DW18-C25-54(3D) DW18.5-C25-55.5(3D) DW19-C25-57(3D) DW20-C25-60(3D) DW20.5-C25-61.5(3D)	54 55.5 57 60 61.5	0.37 0.38 0.37 0.42 0.44				18.0	25	35	56	24	WC..030208
DW18.5-C25-37(2D)	37	0.36							18.5					
DW19-C25-38(2D)	38	0.36							19.0					
DW20-C25-40(2D)	40	0.37							20.0					
									20.5					
DW21-C25-42(2D)	42	0.37	DW21-C25-63(3D) DW21.5-C25-64.5(3D) DW22-C25-66(3D) DW22.5-C25-67.5(3D)	63 64.5 66 67.5	0.40 0.45 0.42 0.47	DW21-C25-84(4D) DW22-C25-88(4D)	84 88	0.44 0.45	21.0	25	35	56	24	WC..040208
DW22-C25-44(2D)	44	0.39							21.5					
									22.0					
DW23-C25-46(2D)	46	0.39							22.5					
DW24-C25-48(2D)	48	0.40							23.0					
DW25-C25-50(2D)	50	0.42	DW23-C25-69(3D) DW24-C25-72(3D) DW25-C25-75(3D)	69 72 75	0.44 0.46 0.47	DW23-C25-92(4D) DW24-C25-96(4D) DW25-C25-100(4D)	92 96 100	0.48 0.50 0.52	24.0					WC..050308
DW26-C32-52(2D)	52	0.65							25.0					
DW27-C32-54(2D)	54	0.67							26.0	32	43	60	29	
DW28-C32-56(2D)	56	0.68							27.0					
DW29-C32-58(2D)	58	0.69							28.0					
DW30-C32-60(2D)	60	0.73	DW26-C32-78(3D) DW27-C32-81(3D) DW28-C32-84(3D) DW29-C32-87(3D) DW30-C32-90(3D)	78 81 84 87 90	0.70 0.74 0.77 0.80 0.83	DW26-C32-104(4D) DW27-C32-108(4D) DW28-C32-112(4D) DW29-C32-116(4D) DW30-C32-120(4D)	104 108 112 116 120	0.77 0.81 0.85 0.89 0.95	29.0					WC..06T308
DW31-C32-62(2D)	62	0.73							30.0					
DW32-C32-64(2D)	64	0.77							31.0	32	43	60	29	
DW33-C32-66(2D)	66	0.77							32.0					
DW34-C32-68(2D)	68	0.81							33.0					
DW35-C32-70(2D)	70	0.84	DW31-C32-93(3D) DW32-C32-96(3D) DW33-C32-99(3D) DW34-C32-102(3D) DW35-C32-105(3D)	93 96 99 102 105	0.86 0.87 0.91 0.97 0.98	DW31-C32-124(4D) DW32-C32-128(4D) DW33-C32-132(4D) DW34-C32-136(4D) DW35-C32-140(4D)	124 128 132 136 140	0.96 1.00 1.06 1.09 1.16	34.0					WC..06T308
DW36-C32-72(2D)	72	0.88							35.0					
DW37-C32-74(2D)	74	0.91							36.0	32	43	60	29	
DW38-C32-76(2D)	76	0.94							37.0					
DW39-C32-78(2D)	78	0.97							38.0					
DW40-C32-80(2D)	80	0.99	DW36-C32-108(3D) DW37-C32-111(3D) DW38-C32-114(3D) DW39-C32-117(3D) DW40-C32-120(3D)	108 111 114 117 120	1.05 1.12 1.19 1.19 1.27	DW36-C32-144(4D) DW37-C32-148(4D) DW38-C32-152(4D) DW39-C32-156(4D) DW40-C32-160(4D)	144 148 152 156 160	1.21 1.27 1.32 1.39 1.47	39.0					WC..06T308
									40.0					

Description	GRADE 材質	Insert Shape	Dimensions, mm			Screw	Wrench
	ACZ330		lc	S	Re		
WCMX030208FN	●		5.56	2.38	0.8	MS2506E	ETD08
WCMX040208FN	●		6.35	2.38	0.8	MS2506E	ETD08
WCMT050308FN	●		7.94	3.18	0.8	MS3008B	ETD09
WCMT06T308FN	●		9.525	3.97	0.8	MS3510E	ETD10

Indexable Inserts High Speed Drills



Item code	L1	Weight (kg)	Item code	L1	Weight (kg)	Dimensions,mm					Insert
						D	d	d1	L2	L3	
DWD13-A25-26(2D)	26	0.33	DWD13-A25-39(3D)	39	0.33	13	25	33	56	24	WD..04..
DWD14-A25-28(2D)	28	0.33	DWD14-A25-42(3D)	42	0.34	14					
DWD15-A25-30(2D)	30	0.34	DWD15-A25-45(3D)	45	0.35	15					
DWD16-A25-32(2D)	32	0.34	DWD16-A25-48(3D)	48	0.35	16	25	33	56	24	WD..05..
DWD17-A25-34(2D)	34	0.35	DWD17-A25-51(3D)	51	0.37	17					
DWD18-A25-36(2D)	36	0.37	DWD18-A25-54(3D)	54	0.39	18		35			
DWD19-A25-38(2D)	38	0.37	DWD19-A25-57(3D)	57	0.40	19	25	35	56	24	WD..06..
DWD20-A25-40(2D)	40	0.38	DWD20-A25-60(3D)	60	0.40	20					
DWD21-A25-42(2D)	42	0.38	DWD21-A25-63(3D)	63	0.42	21					
DWD22-A25-44(2D)	44	0.40	DWD22-A25-66(3D)	66	0.44	22					
DWD23-A25-46(2D)	46	0.41	DWD23-A25-69(3D)	69	0.45	23	25	35	56	24	WD..07..
DWD24-A25-48(2D)	48	0.42	DWD24-A25-72(3D)	72	0.47	24					
DWD25-A25-50(2D)	50	0.43	DWD25-A25-75(3D)	75	0.48	25					
DWD26-A32-52(2D)	52	0.67	DWD26-A32-78(3D)	78	0.72	26	32	43	60	29	WD..07..
DWD27-A32-54(2D)	54	0.68	DWD27-A32-81(3D)	81	0.74	27					
DWD28-A32-56(2D)	56	0.69	DWD28-A32-84(3D)	84	0.76	28					
DWD29-A32-58(2D)	58	0.78	DWD29-A32-87(3D)	87	0.78	29	32	43	60	29	WD..09..
DWD30-A32-60(2D)	60	0.79	DWD30-A32-90(3D)	90	0.86	30					
DWD31-A32-62(2D)	62	0.82	DWD31-A32-93(3D)	93	0.92	31					
DWD32-A32-64(2D)	64	0.83	DWD32-A32-96(3D)	96	0.95	32					
DWD33-A32-66(2D)	66	0.87	DWD33-A32-99(3D)	99	0.98	33					
DWD34-A32-68(2D)	68	0.90	DWD34-A32-102(3D)	102	1.02	34					
DWD35-A32-70(2D)	70	0.92	DWD35-A32-105(3D)	105	1.09	35					
DWD36-A32-72(2D)	72	0.95	DWD36-A32-108(3D)	108	1.13	36					
DWD37-A32-74(2D)	74	1.01	DWD37-A32-111(3D)	111	1.14	37	32	43	60	29	WD..12..
DWD38-A32-76(2D)	76	0.98	DWD38-A32-114(3D)	114	1.18	38					
DWD39-A32-78(2D)	78	1.01	DWD39-A32-117(3D)	117	1.22	39					

NEW
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NEW
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NEW
NEW
NEW

Description	GRADE 材質		Insert Shape	Dimensions,mm			Screw	Wrench
	ACK330	ACP330		L	S	Re		
WDXT042004-G	●	●		4.2	2	0.4	MS1604C	ETD06
WDXT052504-G	●	●		5	2.5	0.4	MS2005A	ETD06
WDXT063006-G	●	●		6	3	0.6	MS2206A	ETD07
WDXT073506-G	●	●		7.5	3.5	0.6	MS2506E	ETD08
WDXT094008-G	●	●		9.6	4	0.8	MS3509A	ETD15
WDXT125012-G	●	●		12.4	5	1.2	MS5011A	ETD20

內徑車刀
BORING BARS

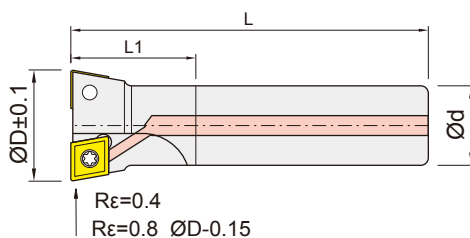
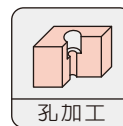
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



Coolant steel shank
中心出水鋼柄 示意圖

內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

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BORING TOOLS COMPONENTS

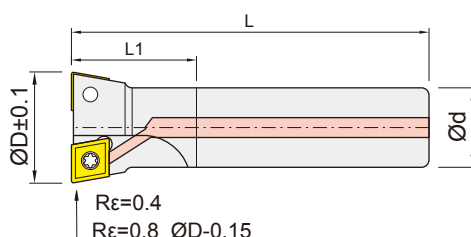
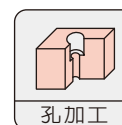
配件
SPARE PARTS

NEW
NEW
NEW
NEW

NEW
NEW

Item code	L	Item code	L	Item code	L	Item code	L	Dimensions,mm			Teeth	Insert
								D Rε=0.4	d	L1		
TB08-S16-120	120							7.8	16	12	1	CC..060204
TB09-S16-120								8.8		14		
TB10-S16-120		TB10-S16-160	160	TB10-S16-200	200			9.8		25		
TB11-S16-120		TB11-S16-160		TB11-S16-200				10.8				
TB12-S16-120		TB12-S/A16-160		TB12-S16-200				11.8		30		
TB13-S16-120		TB13-S/A16-160		TB13-S16-200				12.8				
TB14-S16-120		TB14-S/A16-160		TB14-S16-200				13.8				
TB15-S16-120	120	TB15-S/A16-160	160	TB15-S16-200	200	TB15-S16-250	250	14.8	16	30	1	CC..060204
TB16-S16-120		TB16-S/A16-160		TB16-S16-200				15.8			2	
TB17-S16-120		TB17-S/A16-160		TB17-S16-200				16.8				
TB18-S16-120		TB18-S/A16-160		TB18-S16-200		TB18-S16-250	250	17.8				
TB19-S16-120		TB19-S/A16-160		TB19-S16-200		TB19-S16-250		18.8				
TB20-S16-120		TB20-S/A16-160		TB20-S16-200		TB20-S16-250		19.8				
TB21-S16-120		TB21-S/A16-160		TB21-S16-200		TB21-S16-250		20.8				CC..060204
TB22-S16-120		TB22-S/A16-160		TB22-S16-200		TB22-S16-250		21.8				
TB23-S20-130	130	TB23-S/A20-160	160	TB23-S20-200	200	TB23-S20-250	250	22.8	20	30	2	
TB24-S20-130		TB24-S/A20-160		TB24-S20-200		TB24-S20-250		23.8				
TB25-S20-130		TB25-S20-160		TB25-S/A20-200		TB25-S20-250		24.8				
TB26-S20-130	130	TB26-S20-160	160	TB26-S/A20-200	200	TB26-S20-250	250	25.8	20	30	2	CC..09T304
TB27-S20-130		TB27-S20-160		TB27-S/A20-200		TB27-S20-250		26.8				
TB28-S20-130		TB28-S20-160		TB28-S/A20-200		TB28-S20-250		27.8				
TB29-S20-130		TB29-S20-160		TB29-S/A20-200				28.8				
TB29-S25-160	160	TB29-S25-200	200	TB29-S25-250	250			28.8	25	30	2	CC..09T304
TB30-S25-160		TB30-S/A25-200		TB30-S25-250		TB30-S25-300	300	29.8		40		
TB31-S25-160		TB31-S/A25-200		TB31-S25-250		TB31-S25-300		30.8				
TB32-S25-160		TB32-S/A25-200		TB32-S25-250		TB32-S25-300		31.8				
TB33-S25-160		TB33-S/A25-200		TB33-S25-250		TB33-S25-300		32.8				
TB34-S25-160		TB34-S/A25-200		TB34-S25-250		TB34-S25-300		33.8				
TB35-S25-160		TB35-S/A25-200		TB35-S25-250		TB35-S25-300		34.8				
TB36-S25-160		TB36-S/A25-200		TB36-S25-250		TB36-S25-300		35.8				
TB37-S25-160		TB37-S/A25-200		TB37-S25-250		TB37-S25-300		36.8				
TB38-S25-160		TB38-S/A25-200		TB38-S25-250		TB38-S25-300		37.8				
TB39-S25-160		TB39-S/A25-200		TB39-S25-250		TB39-S25-300		38.8				
TB40-S25-160		TB40-S/A25-200		TB40-S25-250		TB40-S25-300		39.8				

Fixed Rough Boring Bars



Coolant steel shank
中心出水鋼柄 示意圖

Item code	L	Item code	L	Item code	L	Item code	L	Dimensions,mm			Teeth	Insert 
								D Rε=0.4	d	L1		
TB35-S32-160	160	TB35-S32-200	200	TB35-S32-250	250	TB35-S32-300	300	34.8	32	50	2	CC..09T304
TB36-S32-160		TB36-S32-200		TB36-S32-250		TB36-S32-300		35.8		60		
TB37-S32-160		TB37-S32-200		TB37-S32-250		TB37-S32-300		36.8		40		
TB38-S32-160		TB38-S32-200		TB38-S32-250		TB38-S32-300		37.8				
TB39-S32-160		TB39-S32-200		TB39-S32-250		TB39-S32-300		38.8				
TB40-S32-160		TB40-S32-200		TB40-S32-250		TB40-S32-300		39.8				
TB41-S/A32-200	200	TB41-S32-250	250	TB41-S32-300	300	TB41-S32-350	350	40.8	32	45	2	CC..09T304
TB42-S/A32-200		TB42-S32-250		TB42-S32-300		41.8						
TB43-S/A32-200		TB43-S32-250		TB43-S32-300		42.8						
TB44-S/A32-200		TB44-S32-250		TB44-S32-300		43.8						
TB45-S/A32-200		TB45-S32-250		TB45-S32-300		44.8						
TB46-S/A32-200		TB46-S32-250		TB46-S32-300		45.8						
TB47-S/A32-200		TB47-S32-250		TB47-S32-300		46.8						
TB48-S/A32-200		TB48-S32-250		TB48-S32-300		47.8						
TB49-S/A32-200		TB49-S32-250		TB49-S32-300		48.8						
TB50-S/A32-200		TB50-S32-250		TB50-S32-300		49.8						
TB51-S/A32-200	200	TB51-S32-250	250	TB51-S32-300	300	TB52-S32-350	350	50.8	32	45	2	CC..09T304
TB52-S/A32-200		TB52-S32-250		TB52-S32-300		51.8						
TB53-S/A32-200		TB53-S32-250		TB53-S32-300		52.8						
TB54-S/A32-200		TB54-S32-250		TB54-S32-300		53.8						
TB55-S/A32-200		TB55-S32-250		TB55-S32-300		54.8						
TB56-S/A32-200		TB56-S32-250		TB56-S32-300		55.8						
TB57-S/A32-200		TB57-S32-250		TB57-S32-300		56.8						

Insert	Screw	Wrench
CC..060204	MS2506A	ETF09
CC..09T304	MS4011A	ETF15
CC..120404	MS5011A	ETF20

※ Features

TB20E-S20-200		① 刃徑 TB20(ØD = 19.8 ±0.1) TB20E(ØD = 20.0 ±0.1)
①	② ③ ④	② 刀柄 S=鋼柄 STEEL SHANK A=鋼柄水孔 STEEL SHANK+ COOLANT HOLE
		③ 柄徑 ④ 刀柄長度

內徑車刀
BORING BARS

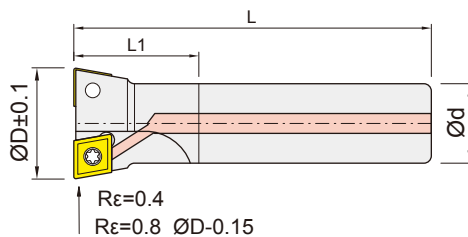
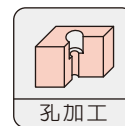
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
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BORING TOOLS COMPONENTS

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Coolant steel shank
中心出水鋼柄 示意圖

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BORING TOOLS COMPONENTS

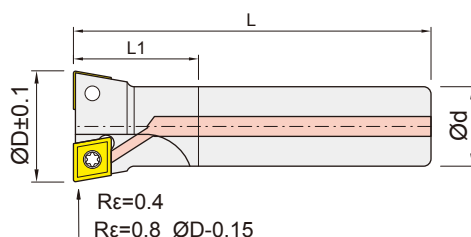
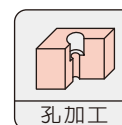
配件
SPARE PARTS

NEW
NEW
NEW
NEW

NEW
NEW

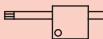
Item code	L	Item code	L	Item code	L	Item code	L	Dimensions,mm			Teeth	Insert
								D Rε=0.4	d	L1		
TB08E-S16-120	120	TB10E-S16-160 TB11E-S16-160 TB12E-S16-160 TB13E-S16-160 TB14E-S16-160 TB15E-S16-160	160	TB12E-S16-200 TB13E-S16-200 TB14E-S16-200 TB15E-S16-200	200			8.0	16	12	1	CC..060204
TB09E-S16-120								9.0		14		
TB10E-S16-120								10.0		25		
TB11E-S16-120								11.0				
TB12E-S16-120								12.0		30		
TB13E-S16-120								13.0				
TB14E-S16-120								14.0				
TB15E-S16-120								15.0				
TB16E-S16-120	120	TB16E-S16-160 TB17E-S16-160 TB18E-S16-160 TB19E-S16-160 TB20E-S16-160 TB21E-S16-160 TB22E-S16-160	160	TB16E-S16-200 TB17E-S16-200 TB18E-S16-200 TB19E-S16-200 TB20E-S16-200	200			16.0	16	30	2	CC..060204
TB17E-S16-120								17.0				
TB18E-S16-120								18.0				
TB19E-S16-120								19.0				
TB20E-S16-120								20.0				
TB21E-S16-120								21.0				
TB22E-S16-120								22.0				
TB23E-S20-130	130	TB23E-S20-160 TB24E-S20-160 TB25E-S20-160 TB26E-S20-160 TB27E-S20-160 TB28E-S20-160 TB29E-S20-160	160	TB23E-S20-200 TB24E-S20-200 TB25E-S20-200 TB26E-S20-200 TB27E-S20-200 TB28E-S20-200 TB29E-S20-200	200	TB24E-S20-250 TB25E-S20-250 TB26E-S20-250 TB27E-S20-250 TB28E-S20-250	250	23.0	20	30	2	CC..060204
TB24E-S20-130								24.0				
TB25E-S20-130								25.0				
TB26E-S20-130								26.0				
TB27E-S20-130								27.0				
TB28E-S20-130								28.0				
TB29E-S20-130								29.0				
TB30E-S25-160	160	TB30E-S25-200 TB31E-S25-200 TB32E-S25-200 TB33E-S25-200 TB34E-S25-200 TB35E-S25-200 TB36E-S25-200 TB37E-S25-200 TB38E-S25-200 TB39E-S25-200 TB40E-S25-200	200	TB30E-S25-250 TB31E-S25-250 TB32E-S25-250 TB33E-S25-250 TB34E-S25-250 TB35E-S25-250 TB36E-S25-250 TB37E-S25-250 TB38E-S25-250 TB39E-S25-250 TB40E-S25-250	250	TB33E-S25-300	300	30.0	25	40	2	CC..09T304
TB31E-S25-160								31.0				
TB32E-S25-160								32.0				
TB33E-S25-160								33.0				
TB34E-S25-160								34.0				
TB35E-S25-160								35.0				
TB36E-S25-160								36.0				
TB37E-S25-160								37.0				
TB38E-S25-160								38.0				
TB39E-S25-160								39.0				
TB40E-S25-160								40.0				

Fixed Rough Boring Bars



Coolant steel shank
中心出水鋼柄 示意圖

Item code	L	Item code	L	Item code	L	Item code	L	Dimensions,mm			Teeth	Insert
								D Rε=0.4	d	L1		
TB38E-S32-200	200	TB38E-S32-250	250					38.0	32	40	2	CC..09T304
TB39E-S32-200		TB39E-S32-250						39.0				
TB40E-S32-200	200	TB40E-S32-250	250	TB40E-S32-300	300			40.0	32	45	2	CC..09T304
TB41E-S32-200		TB41E-S32-250		TB41E-S32-300				41.0				
TB42E-S32-200		TB42E-S32-250		TB42E-S32-300				42.0				
TB43E-S32-200		TB43E-S32-250		TB43E-S32-300				43.0				
TB44E-S32-200		TB44E-S32-250		TB44E-S32-300				44.0				
TB45E-S32-200		TB45E-S32-250		TB45E-S32-300				45.0				
TB46E-S32-200		TB46E-S32-250		TB46E-S32-300				46.0				
TB47E-S32-200		TB47E-S32-250		TB47E-S32-300				47.0				
TB48E-S32-200		TB48E-S32-250		TB48E-S32-300				48.0				
TB49E-S32-200		TB49E-S32-250		TB49E-S32-300				49.0				
TB50E-S32-200		TB50E-S32-250		TB50E-S32-300				50.0				
TB51E-S32-200		TB51E-S32-250		TB51E-S32-300				51.0				
TB52E-S32-200		TB52E-S32-250		TB52E-S32-300				52.0				
TB53E-S32-200		TB53E-S32-250		TB53E-S32-300				53.0				
TB54E-S32-200		TB54E-S32-250		TB54E-S32-300				54.0				
TB55E-S32-200		TB55E-S32-250		TB55E-S32-300				55.0				
TB56E-S32-200		TB56E-S32-250		TB56E-S32-300				56.0				
TB57E-S32-200		TB57E-S32-250		TB57E-S32-300				57.0				

Insert	Screw 	Wrench 
CC..060204	MS2506A	ETF09
CC..09T304	MS4011A	ETF15
CC..120404	MS5011A	ETF20

※ Features

TB20E-S20-200		① 刃徑 TB20(ØD = 19.8 ±0.1) TB20E(ØD = 20.0 ±0.1)
①	② ③ ④	② 刀柄 S=鋼柄 STEEL SHANK A=鋼柄水孔 STEEL SHANK+ COOLANT HOLE
		③ 柄徑 ④ 刀柄長度

內徑車刀
BORING BARS

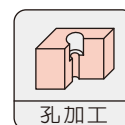
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

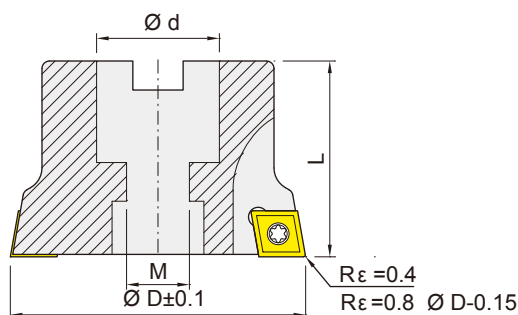
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



孔加工

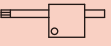


Item code (d=22.0)	Item code (d=25.4)	Insert 	Item code (d=22.0,25.4)	Insert 	D Rε=0.4	Teeth
TB45-22.0-CC09	TB50-25.4-CC09	CC..09T304			44.8	2
TB46-22.0-CC09					45.8	
TB47-22.0-CC09					46.8	
TB48-22.0-CC09					47.8	
TB49-22.0-CC09					48.8	
TB50-22.0-CC09					49.8	
TB51-22.0-CC09	TB51-25.4-CC09	CC..09T304	TB55-22.0-CC12	CC..120404	50.8	2
TB52-22.0-CC09	TB52-25.4-CC09				51.8	
TB53-22.0-CC09	TB53-25.4-CC09				52.8	
TB54-22.0-CC09	TB54-25.4-CC09				53.8	
TB55-22.0-CC09	TB55-25.4-CC09				54.8	
TB56-22.0-CC09	TB56-25.4-CC09	CC..09T304	TB56-22.0-CC12 TB57-22.0-CC12 TB58-22.0-CC12 TB59-22.0-CC12 TB60-22.0-CC12	CC..120404	55.8	2
TB57-22.0-CC09	TB57-25.4-CC09				56.8	
TB58-22.0-CC09	TB58-25.4-CC09				57.8	
TB59-22.0-CC09	TB59-25.4-CC09				58.8	
TB60-22.0-CC09	TB60-25.4-CC09				59.8	
TB61-22.0-CC09	TB61-25.4-CC09	CC..09T304	TB61-25.4-CC12 TB62-25.4-CC12 TB63-25.4-CC12 TB64-25.4-CC12 TB65-25.4-CC12	CC..120404	60.8	2
TB62-22.0-CC09	TB62-25.4-CC09				61.8	
TB63-22.0-CC09	TB63-25.4-CC09				62.8	
TB64-22.0-CC09	TB64-25.4-CC09				63.8	
TB65-22.0-CC09	TB65-25.4-CC09				64.8	
TB66-22.0-CC09	TB66-25.4-CC09	CC..09T304	TB66-25.4-CC12 TB67-25.4-CC12 TB68-25.4-CC12 TB69-25.4-CC12 TB70-25.4-CC12	CC..120404	65.8	2
TB67-22.0-CC09	TB67-25.4-CC09				66.8	
TB68-22.0-CC09	TB68-25.4-CC09				67.8	
TB69-22.0-CC09	TB69-25.4-CC09				68.8	
TB70-22.0-CC09	TB70-25.4-CC09				69.8	
TB71-22.0-CC09	TB71-25.4-CC09	CC..09T304	TB71-25.4-CC12 TB72-25.4-CC12 TB73-25.4-CC12 TB74-25.4-CC12 TB75-25.4-CC12	CC..120404	70.8	2
TB72-22.0-CC09	TB72-25.4-CC09				71.8	
	TB73-25.4-CC09				72.8	
	TB74-25.4-CC09				73.8	
TB75-22.0-CC09	TB75-25.4-CC09				74.8	
	TB76-25.4-CC09	CC..09T304	TB76-25.4-CC12 TB77-25.4-CC12 TB78-25.4-CC12 TB79-25.4-CC12 TB80-25.4-CC12	CC..120404	75.8	2
	TB77-25.4-CC09				76.8	
	TB78-25.4-CC09				77.8	
	TB79-25.4-CC09				78.8	
	TB80-25.4-CC09				79.8	

Fixed Rough Boring Bars



Item code (d=25.4)	Insert 	Item code (d=25.4)	Item code (d=31.75)	Insert 	D Rε=0.4	Teeth
TB81-25.4-CC09 TB82-25.4-CC09	CC..09T304	TB81-25.4-CC12 TB82-25.4-CC12 TB83-25.4-CC12 TB84-25.4-CC12 TB85-25.4-CC12		CC..120404	80.8	2
					81.8	
					82.8	
TB84-25.4-CC09 TB85-25.4-CC09					83.8	
					84.8	
TB86-25.4-CC09	CC..09T304	TB86-25.4-CC12 TB87-25.4-CC12 TB88-25.4-CC12 TB89-25.4-CC12 TB90-25.4-CC12		CC..120404	85.8	2
					86.8	
TB88-25.4-CC09					87.8	
					88.8	
TB90-25.4-CC09					89.8	
TB92-25.4-CC09	CC..09T304	TB91-25.4-CC12 TB92-25.4-CC12 TB93-25.4-CC12 TB94-25.4-CC12 TB95-25.4-CC12		CC..120404	90.8	2
					91.8	
TB94-25.4-CC09 TB95-25.4-CC09					92.8	
					93.8	
					94.8	
TB96-25.4-CC09	CC..09T304	TB96-25.4-CC12 TB97-25.4-CC12 TB98-25.4-CC12 TB99-25.4-CC12 TB100-25.4-CC12	TB100-31.75-CC12	CC..120404	95.8	2
					96.8	
TB98-25.4-CC09					97.8	
					98.8	
TB100-25.4-CC09					99.8	
	CC..09T304	TB101-25.4-CC12 TB102-25.4-CC12	TB101-31.75-CC12 TB102-31.75-CC12 TB103-31.75-CC12 TB104-31.75-CC12 TB105-31.75-CC12	CC..120404	100.8	2
					101.8	
					102.8	
TB105-25.4-CC09		TB105-25.4-CC12			103.8	
					104.8	
	CC..09T304		TB106-31.75-CC12 TB107-31.75-CC12 TB108-31.75-CC12 TB109-31.75-CC12 TB110-31.75-CC12	CC..120404	105.8	2
TB108-25.4-CC09		TB108-25.4-CC12			106.8	
					107.8	
TB110-25.4-CC09		TB110-25.4-CC12			108.8	
					109.8	
TB112-25.4-CC09	CC..09T304	TB112-25.4-CC12	TB111-31.75-CC12 TB112-31.75-CC12 TB113-31.75-CC12 TB114-31.75-CC12 TB115-31.75-CC12	CC..120404	110.8	2
					111.8	
					112.8	
TB115-25.4-CC09		TB115-25.4-CC12			113.8	
					114.8	
	CC..09T304		TB116-31.75-CC12 TB117-31.75-CC12 TB118-25.4-CC12 TB118-31.75-CC12 TB119-31.75-CC12 TB120-31.75-CC12	CC..120404	115.8	2
		TB118-25.4-CC12			116.8	
					117.8	
TB120-25.4-CC09		TB120-25.4-CC12			118.8	
					119.8	
TB122-25.4-CC09	CC..09T304		TB121-31.75-CC12 TB122-31.75-CC12 TB123-31.75-CC12 TB124-31.75-CC12 TB125-31.75-CC12	CC..120404	120.8	2
					121.8	
					122.8	
					123.8	
					124.8	
			TB126-31.75-CC12 TB127-31.75-CC12 TB128-31.75-CC12 TB129-31.75-CC12 TB130-31.75-CC12	CC..120404	125.8	2
		126.8				
		127.8				
		128.8				
		129.8				

Insert	Screw 	Wrench 
CC..060204	MS2506A	ETF09
CC..09T304	MS4011A	ETF15
CC..120404	MS5011A	ETF20

Dimensions,mm	d	M	L
TB...-22.0-...	22.0	11	50
TB...-25.4-...	25.4	13	50
TB...-31.75-...	31.75	13	50

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



FIG-1

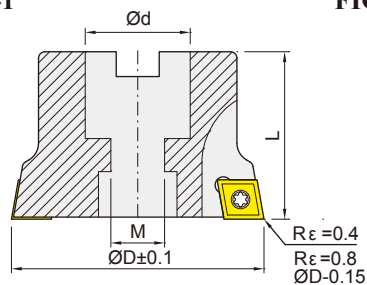


FIG-2

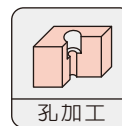
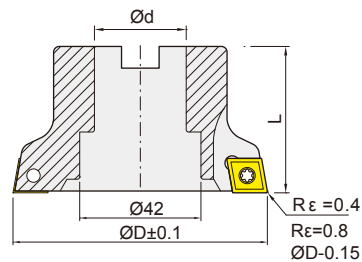


FIG-1 Item code (d=31.75)	Item code	Item code	Insert 	D Rε=0.4	Teeth
TB131-31.75-CC12			CC..120404	130.8	2
TB132-31.75-CC12				131.8	
TB133-31.75-CC12				132.8	
TB134-31.75-CC12				133.8	
TB135-31.75-CC12				134.8	
TB136-31.75-CC12			CC..120404	135.8	2
TB137-31.75-CC12				136.8	
TB138-31.75-CC12				137.8	
TB139-31.75-CC12				138.8	
TB140-31.75-CC12				139.8	
TB141-31.75-CC12			CC..120404	140.8	2
TB142-31.75-CC12				141.8	
TB143-31.75-CC12				142.8	
TB144-31.75-CC12				143.8	
TB145-31.75-CC12				144.8	
TB146-31.75-CC12			CC..120404	145.8	2
TB147-31.75-CC12				146.8	
TB148-31.75-CC12				147.8	
TB149-31.75-CC12				148.8	
TB150-31.75-CC12				149.8	
TB151-31.75-CC12			CC..120404	150.8	2
TB155-31.75-CC12				154.8	
TB156-31.75-CC12				155.8	
TB160-31.75-CC12				159.8	
TB161-31.75-CC12				160.8	
TB165-31.75-CC12			CC..120404	164.8	2
TB170-31.75-CC12				169.8	
TB175-31.75-CC12				174.8	
TB180-31.75-CC12				179.8	
TB185-31.75-CC12				184.8	
TB187-31.75-CC12			CC..120404	186.8	2
TB190-31.75-CC12				189.8	
TB195-31.75-CC12				194.8	
TB200-31.75-CC12				199.8	
TB201-31.75-CC12				200.8	

FIG-2 Item code (d=31.75)	Item code	Item code	Insert 	D Rε=0.4	Teeth
TB100-31.75-CC12F			CC..120404	99.8	2
TB105-31.75-CC12F				104.8	
TB110-31.75-CC12F				109.8	
TB115-31.75-CC12F				114.8	
TB120-31.75-CC12F				119.8	

Insert	Screw 	Wrench 
CC..060204	MS2506A	ETF09
CC..09T304	MS4011A	ETF15
CC..120404	MS5011A	ETF20

Dimensions,mm	d	M	L
TB...-22.0-...	22.0	11	50
TB...-25.4-...	25.4	13	50
TB...-31.75-...	31.75	13	50

Fixed Rough Boring Bars



FIG-1

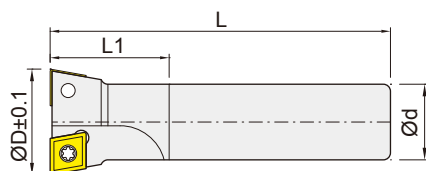
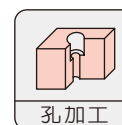
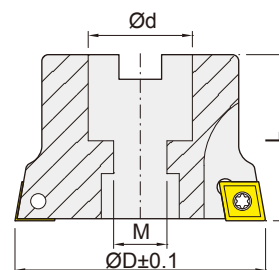


FIG-2



內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

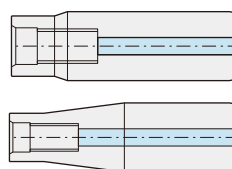
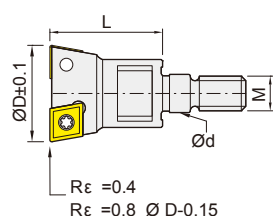
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

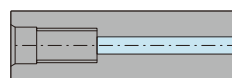
配件
SPARE PARTS

FIG-1 Item code	Dimensions,mm				Teeth	Insert	Screw	Wrench	Weight (kg)
	D	d	L	L1					
TBP26-S20-130	25.8	20	130	30	2	CP..090308	MS4009A	ETF15	0.32
TBP40-S32-120	39.8	32	120	45	3		MS4011A		0.76

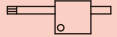
FIG-2 Item code	Dimensions,mm				Teeth	Insert	Screw	Wrench	Weight (kg)
	D	d	L	M					
TBP70-25.4-CP09	69.8	25.4	50	13	4	CP..090308	MS4011A	ETF15	0.71
TBP100-25.4-CP09	99.8	25.4	50	13	4				1.45

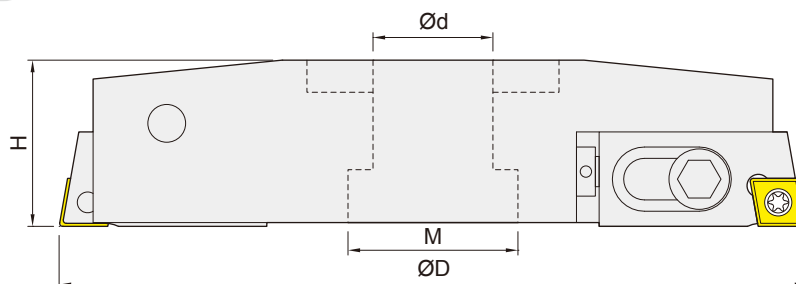
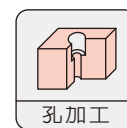


Steel shank + Coolant Hole
鋼柄水孔
(參考目錄p.236 See page 236)

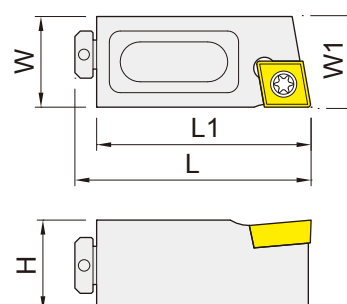


Carbide shank + Coolant Hole
鎢鋼柄水孔
(參考目錄p.236 See page 236)

Item code	Dimensions,mm				Teeth	Insert 	Screw 	Wrench 	Weight (kg)
	D	d	L	M					
TB13-MD11	12.8	6.5	18	M6	1	CC..060204	MS2506A	ETF09	0.03
TB14-MD11	13.8				0.03				
TB15-MD11	14.8				0.03				
TB16-MD11	15.8				2				0.03
TB16-MD11-M08	15.8	8.5	20	M8	2				0.03
TB18-MD15-M08	17.8								0.04
TB20-MD14-M08	19.8	10.5	30	M10					0.05
TB20-MD19-M10	19.8								0.07
TB22-MD19-M10	21.8								0.08
TB25-MD19-M10	24.8								0.09



Item code	ØD Range		Dimensions,mm			Teeth	Cartridges	Screw	Weight (kg)
	Dmin	Dmax	d	M	H				
TBJ175-25-31.75	175	200	31.75	45	43	2	TBJS925-CC12	HTM1035	2.35
TBJ200-25-31.75	200	225							2.88
TBJ225-25-31.75	225	250							3.47
TBJ250-25-31.75	250	275							4.14
TBJ275-25-31.75	275	300							4.78
TBJ300-25-31.75	300	325							5.42
TBJ325-25-31.75	325	350							6.08
TBJ350-25-31.75	350	375							6.64
TBJ375-25-31.75	375	400							7.30
TBJ400-25-31.75	400	425							7.84



Item code	Dimensions,mm					Insert	Screw	Screw	Wrench	Weight (kg)
	H	W	W1	L1	L					
TBJS925-CC12	25	25	25.5	55	60	CC..1204..	RTM825	MS5011A	ETF20	0.40



內徑車刀
BORING BARS

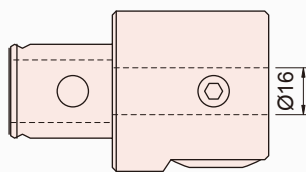
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



EC1605

SC05H-SWUBR-06

Ø6 ~ Ø7.5



EC1606

SC06J-SWUBR-06

Ø7 ~ Ø9



EC1608

SC08-M5-115



BE09A, Ø9~Ø10.5



BE10.5A, Ø10.5~Ø12



EC1610

EC1612

EC1614

SC10-M6-115

SC10-M6-135

SC10-M6-160

SC12-M6-135

SC12-M6-165

SC14-M6-160



BE12A, Ø12~Ø14



BE14A, Ø14~Ø16



BE16A, Ø16~Ø18



SC16-M10-105

SC16-M10-140

SC16-M10-180



BE18A, Ø18~Ø20



BE20A, Ø20~Ø22



BE22A, Ø22~Ø24



BE24A, Ø24~Ø26



BE26A, Ø26~Ø28



BE28A, Ø28~Ø30



BE30A, Ø30~Ø32



BE32A, Ø32~Ø34



BE34A, Ø34~Ø36



BE36A, Ø36~Ø38



BE38A, Ø38~Ø40



BE40A, Ø40~Ø42



BE42A, Ø42~Ø44



BE44A, Ø44~Ø46



BE46A, Ø46~Ø48



BE48A, Ø48~Ø50



BE50A, Ø50~Ø52

小徑搪刀 Boring Shank



內徑車刀
BORING BARS

外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Item code	Dimensions,mm					Shape	Insert	Screw	Wrench	Weight (kg)
	D	H	L	M	Range					
BE09A	9	7	18	M5	9-10.5	搪孔頭 BORING CUTTER HEAD 	TP..0802..	MS2205A	ETF07	0.02
BE10.5A	10.5				10.5-12					0.02
BE12A	12	8	23	M6	12-14					0.02
BE14A	14	10	23	M6	14-16		TP..0802..	MS2206A	ETF07	0.03
BE16A	16				16-18					0.03
BE18A	18	14	27	M10	18-20		TP..0802..	MS2206A	ETF07	0.04
BE20A	20				20-22					0.04
BE22A	22				22-24					0.04
BE24A	24				24-26					0.04
BE26A	26				26-28					0.04
BE28A	28				28-30					0.04
BE30A	30				30-32					0.04
BE32A	32				32-34					0.05
BE34A	34				34-36					0.05
BE36A	36				36-38					0.05
BE38A	38				38-40					0.05
BE40A	40				40-42					0.06
BE42A	42				42-44					0.06
BE44A	44				44-46					0.06
BE46A	46				46-48					0.06
BE48A	48				48-50					0.06
BE50A	50				50-52					0.06

Carbide shank Item code	Dimensions,mm			Shape	Insert	Screw	Wrench	適用套筒 Suitable Collet	Weight (kg)
	D	L	Range						
NEW SC05H-SWUBR-06	5	100	6-7.5		WB..0601..	MS2003A	ETF06	EC1605	0.03
NEW SC06J-SWUBR-06	6	110	7-9					EC1606	0.05

Item code	Dimensions,mm		Shape	適用錫鋼柄 Suitable Adapters	Weight (kg)
	D	D1			
NEW EC1605	16	5	套筒 COLLET ADAPTERS 	SC05H-SWUBR-06	0.05
EC1606	16	6		SC06J-SWUBR-06	0.05
EC1608	16	8		SC08-M5-..	0.05
EC1610	16	10		SC10-M6-..	0.04
EC1612	16	12		SC12-M6-..	0.03
NEW EC1614	16	14		SC14-M6-..	0.02

Carbide shank		Item code	Dimensions,mm			Shape	適用搪刀頭 Suitable Boring Cutter Head	適用套筒 Suitable Collet	Weight (kg)
Non coolant	Coolant		D	M	L				
SC08-M5-115	SC08H-M5-115		8	M5	115	錫鋼柄搪刀桿 CARBIDE 	BE09A, BE10.5A	EC1608	0.09
SC10-M6-115	SC10H-M6-115		10	M6	115		BE12A	EC1610	0.14
SC10-M6-135	SC10H-M6-135				135				0.16
SC10-M6-160	SC10H-M6-160				160				0.19
SC12-M6-135	SC12H-M6-135		12	M6	135		BE14A, BE16A	EC1612	0.23
SC12-M6-165	SC12H-M6-165				165				0.28
NEW SC14-M6-160	SC14H-M6-160		14	M6	160		BE14A, BE16A	EC1614	0.37
SC16-M10-105	SC16H-M10-105		16	M10	105		BE18A ~ BE50A	--	0.32
SC16-M10-140	SC16H-M10-140				140				0.43
SC16-M10-180	SC16H-M10-180				180				0.54

內徑車刀
BORING BARS

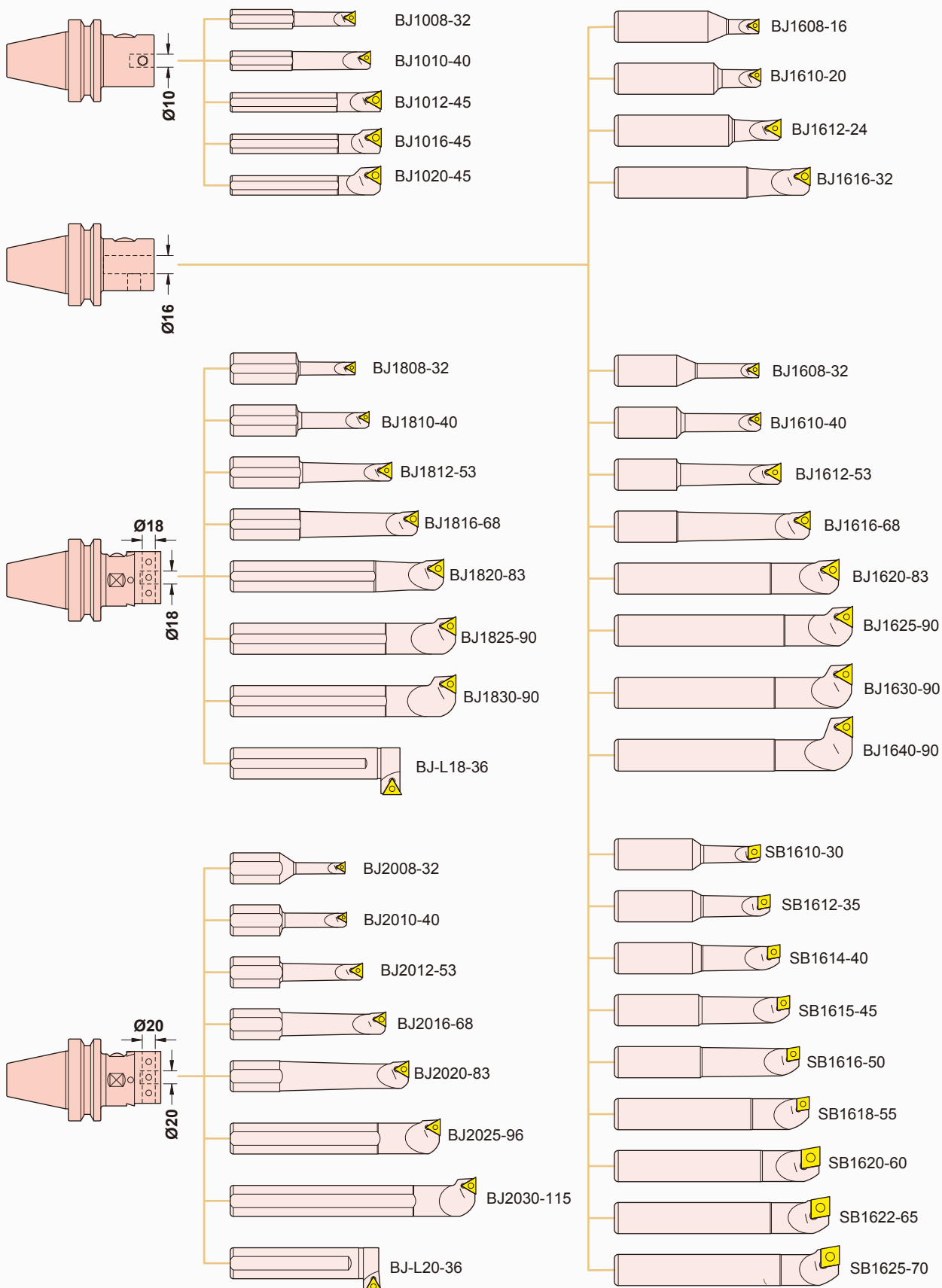
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS



小徑搪刀 Boring Shank

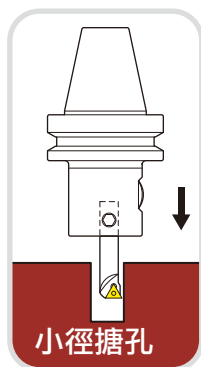


Fig-1

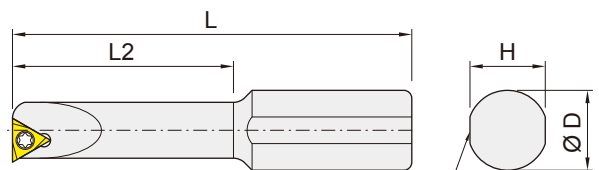
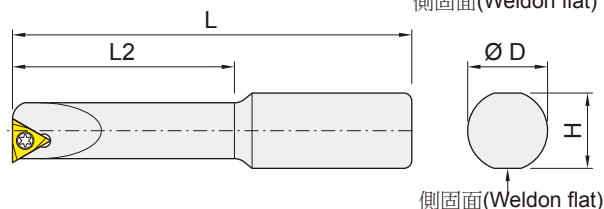


Fig-2



內徑車刀
BORING BARS

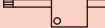
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

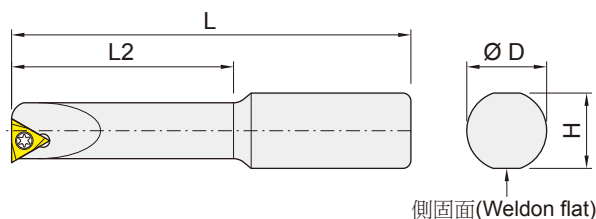
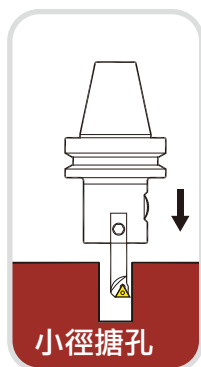
銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

FIG-1 Item code	FIG-2 Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight (kg)
		D	Range	L	L2	H				
BH1008-32	BJ10B06-12	10	8-10	64	32	9	WC..0201..	MS2004A	ETF06	0.04
BH1010-40			10-12	72	40		MS2005A	0.04		
			6-8	64	12		WB..0601..	MS2003A		0.04
			6-8	64	24					0.04
BJ1008-32	BJ10B08-32		8-10	64	32	TB..0601..	MS2004A		0.04	
BJ1010-40	BJ10B10-40		10-12	72	40		MS2005A		0.04	
BJ1012-45	BJ10B12-45		12-16	77	22	TP..0902..	MS2506A	ETF09	0.05	
BJ1016-45	BJ10B16-45		16-20	77	22				0.05	
	BJ10B20-45		20-25	77	25				0.05	
BJ1020-45			20-25	77	27				TP..1103..	MS3008A
※BH10-5PCS		BH1008-32, BH1010-40, BJ1012-45, BJ1016-45, BJ1020-45								0.66
※BJ10-5PCS		BJ1008-32, BJ1010-40, BJ1012-45, BJ1016-45, BJ1020-45								0.66
	※BJ10B-6PCS	BJ10B06-24, BJ10B08-32, BJ10B10-40, BJ10B12-45, BJ10B16-45, BJ10B20-45								0.64

※ 表盒裝 SUITE



Item code	Dimensions,mm					Insert	Screw 	Wrench 	Weight (kg)
	D	Range	L	L2	H				
BJ12B06-12	12	6-8	64	12	11	WB..0601..	MS2003A	ETF06	0.04
BJ12B06-24		6-8	64	24					0.04
BJ12B08-32		8-10	64	32		TB..0601..	MS2004A		0.04
BJ12B10-40		10-12	72	40			MS2005A		0.04
BJ12B12-45		12-16	77	45		TP..0902..	MS2506A	ETF09	0.05
BJ12B16-45		16-20	77	22					0.05
BJ12B20-45		20-25	77	25					0.05
BJ12B25-45		25-30	77	25					0.06
※ BJ12B-7PCS	BJ12B06-24,BJ12B08-32, BJ12B10-40, BJ12B12-45, BJ12B16-45, BJ12B20-45, BJ12B25-45								0.77

※ 表盒裝 SUITE

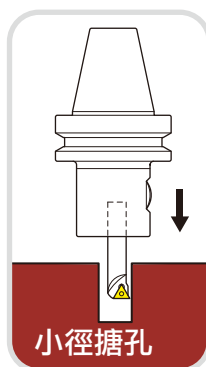


Fig-1

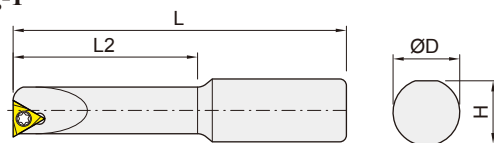


Fig-2

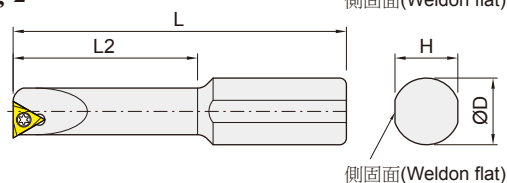
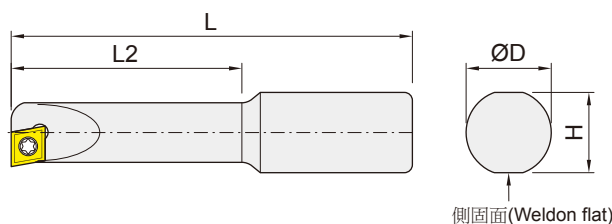
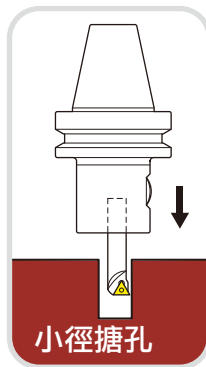


FIG-1 Item code	L2	FIG-1 Item code	L2	FIG-2 Item code NEW	L2	Dimensions,mm				Insert	Screw 	Wrench 	Weight (kg)		
						D	Range	L	H						
--	--	BH1608-32	32	--	--	16	8-10	74	15	WC..0201..	MS2004A	ETF06	0.12		
--	--	BH1610-40	40	--	--		10-12	75			MS2005A			0.12	
BJ1606-12	12	BJ1606-24	24	BJ16B06-25	25		6-8	68		WB..0601..	MS2003A			0.12	
BJ1608-16	16	BJ1608-32	32	BJ16B08-32	32		8-10	74		TB..0601..	MS2004A		0.12		
BJ1610-20	20	BJ1610-40	40	BJ16B10-40	40		10-12	75			MS2005A		0.13		
BJ1612-24	24	BJ1612-53	53	BJ16B12-53	53		12-16	85		TP..0902..	MS2506A	ETF09	0.13		
BJ1614-30	30	BJ1614-60	60	--	--		14-16	103						0.14	
BJ1616-32	32	BJ1616-68	68	BJ16B16-68	68		16-20	100						0.14	
--	--	BJ1620-83	35	BJ16B20-83	35		20-25	115		TP..1103..	MS3008A	ETF09	0.19		
--	--	BJ1625-90	35	BJ16B25-90	35		25-30	122						0.19	
--	--	BJ1630-90	40	BJ16B30-90	40		30-40	122						0.21	
--	--	BJ1635-90	40	BJ16B35-90	40		35-40	122						0.21	
--	--	BJ1640-90	40	BJ16B40-90	40		40-50	122						0.22	
--	--	BJ1645-90	40	BJ16B45-90	40		45-50	122					0.22		
※ BJ16-2D-8PCS							BJ1608-16, BJ1610-20, BJ1612-24, BJ1616-32, BJ1620-83, BJ1625-90, BJ1630-90, BJ1640-90							1.86	
※ BH16-8PCS							BH1608-32, BH1610-40, BJ1612-53, BJ1616-68, BJ1620-83, BJ1625-90, BJ1630-90, BJ1640-90							1.74	
※ BJ16-8PCS						BJ1608-32, BJ1610-40, BJ1612-53, BJ1616-68, BJ1620-83, BJ1625-90, BJ1630-90, BJ1640-90							1.74		
※ BJ16B-8PCS						BJ16B08-32, BJ16B10-40, BJ16B12-53, BJ16B16-68, BJ16B20-83, BJ16B25-90, BJ16B30-90, BJ16B40-90							1.74		



Item code NEW	L2	Item code	L2	Dimensions,mm				Insert	Screw	Wrench	Weight (kg)
				D	Range	L	H				
SB1610-18	18	SB1610-30	30	16	10-12	75	15	CC..0602..	MS2506A	ETF09	0.12
SB1612-20	20	SB1612-35	35		12-14	80					0.13
SB1614-22	22	SB1614-40	40		14-16	85					0.13
SB1615-25	25	SB1615-45	45		15-17	90					0.14
SB1616-30	30	SB1616-50	50		16-18	95					0.15
		SB1618-55	30		18-20	100					0.16
		SB1620-60	30		20-22	105		CC..09T3..	MS4011A	ETF15	0.17
		SB1622-65	30		22-25	110					0.17
		SB1625-70	30		25-28	115					0.18

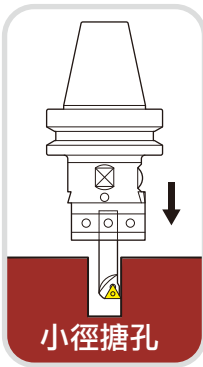


Fig-1

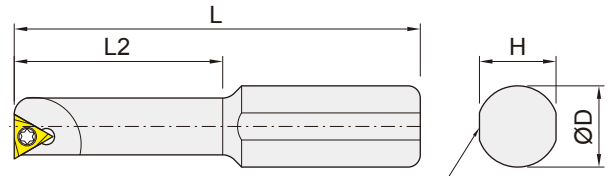
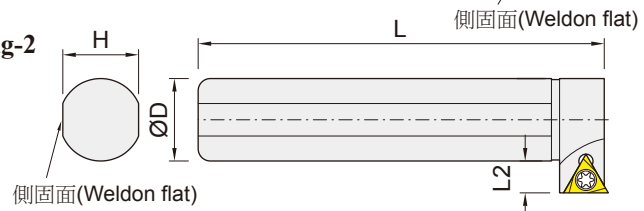


Fig-2



內徑車刀
BORING BARS

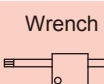
外徑車刀
TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

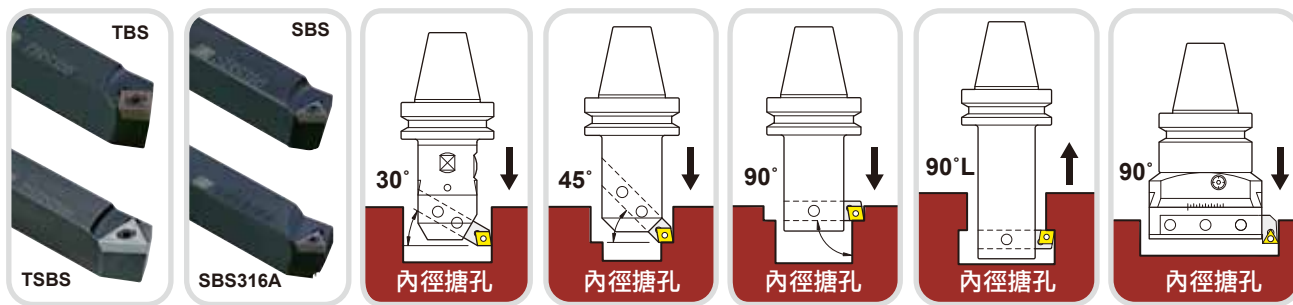
配件
SPARE PARTS

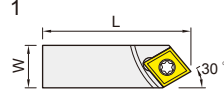
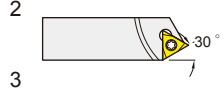
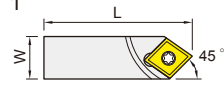
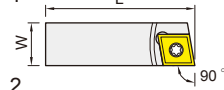
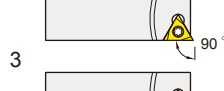
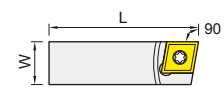
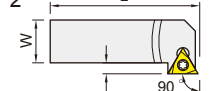
Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight (kg)
	L2	D	Range	L	H	FIG				
BH1806-25	25	18	6-8	68	17	1	WC..0201..	MS2003A	ETF06	0.14
BH1808-32	32	18	8-10	72	17	1		MS2004A		0.14
BH1810-40	40	18	10-12	80	17	1		MS2005A		0.16
BJ1806-12	12	18	6-8	68	17	1	WB..0601..	MS2003A		0.14
BJ1806-24	24	18	6-8	68	17	1				0.14
BJ1808-32	32	18	8-10	72	17	1	TB..0601..	MS2004A		0.14
BJ1810-40	40	18	10-12	80	17	1		MS2005A		0.16
BJ1812-53	53	18	12-16	93	17	1	TP..0902..	MS2506A	ETF09	0.19
BJ1816-68	68	18	16-20	108	17	1				0.22
BJ1820-83	40	18	20-25	123	17	1	TP..1103..	MS3008A		0.25
BJ1825-90	40	18	25-30	130	17	1				0.26
BJ1830-90	40	18	30-35	130	17	1				0.26
BJ-L18-36	8	18	--	97	17	2				0.19
※ BH18-8PCS	BH1808-32, BH1810-40, BJ1812-53, BJ1816-68, BJ1820-83, BJ1825-90,BJ1830-90, BJ-L18-36									1.99
※ BJ18-8PCS	BJ1808-32, BJ1810-40, BJ1812-53, BJ1816-68, BJ1820-83, BJ1825-90,BJ1830-90, BJ-L18-36									1.99

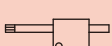
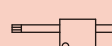
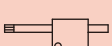
※ 表盒裝 SUITE

Item code	Dimensions,mm						Insert	Screw 	Wrench 	Weight (kg)
	L2	D	Range	L	H	FIG				
BH2006-25	25	20	6-8	68	19	1	WC..0201..	MS2003A	ETF06	0.12
BH2008-32	32	20	8-10	74	19	1		MS2004A		0.18
BH2010-40	40	20	10-12	75	19	1		MS2005A		0.19
BJ2006-12	12	20	6-8	68	19	1	WB..0601..	MS2003A		0.13
BJ2006-24	24	20	6-8	68	19	1				0.11
BJ2008-16	16	20	8-10	74	19	1	TB..0601..	MS2004A		0.18
BJ2008-32	32	20	8-10	74	19	1			0.18	
BJ2010-20	20	20	10-12	75	19	1		MS2005A	0.19	
BJ2010-40	40	20	10-12	75	19	1			0.19	
BJ2012-53	53	20	12-16	85	19	1	TP..0902..	MS2506A	ETF09	0.21
BJ2016-68	68	20	16-20	100	19	1				
BJ2020-83	83	20	20-25	115	19	1	TP..1103..	MS3008A		0.28
BJ2025-96	40	20	25-30	135	19	1			0.33	
BJ2030-115	40	20	30-35	158	19	1			0.39	
BJ-L20-36	8	20	--	97	19	2			0.24	
※ BH20-8PCS	BH2008-32, BH2010-40, BJ2012-53, BJ2016-68, BJ2020-83, BJ2025-96, BJ2030-115, BJ-L20-36									2.26
※ BJ20-8PCS	BJ2008-32, BJ2010-40, BJ2012-53, BJ2016-68, BJ2020-83, BJ2025-96, BJ2030-115, BJ-L20-36									2.26

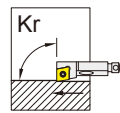
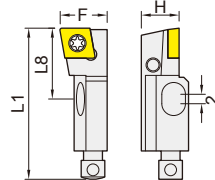
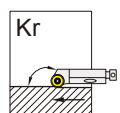
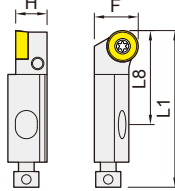
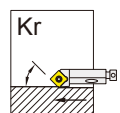
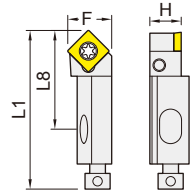
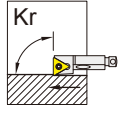
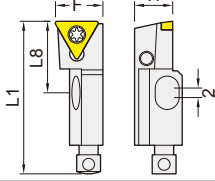
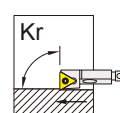
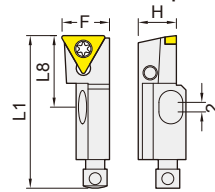
※ 表盒裝 SUITE



Insert Shape	Fig-1 Item code	Insert	Fig-2 Item code	Insert	Fig-2 Item code	Insert	Fig-3 Item code	Insert	Dimensions,mm			Weight (kg)
									H	W	L	
  	TBS306	CC..0602..	TSBS306	TC..0902..	SBS306	TP..0902..			6	6	55	0.03
	TBS308	CC..0602..	TSBS308	TC..0902..	SBS308	TP..0902..	SBS308A	TP..0902..	8	8	55	0.04
	TBS310	CC..0602..	TSBS310	TC..0902..	SBS310	TP..0902..	SBS310A	TP..0902..	10	10	65	0.06
	TBS313	CC..09T3..	TSBS313	TC..1102..	SBS313	TP..1103..	SBS313A	TP..1103..	13	13	80	0.12
	TBS316	CC..09T3..	TSBS316	TC..16T3..	SBS316	TP..1103..	SBS316A	TP..1103..	16	16	120	0.26
					SBS316B	TP..1603..			16	16	120	0.26
	TBS319	CC..1204..	TSBS319	TC..16T3..	SBS319	TP..1603..	SBS319A	TP..1603..	19	19	140	0.40
	TBS325	CC..1204..	TSBS325	TC..16T3..	SBS325	TP..1603..			25	25	150	0.73
  	TBS406	CC..0602..	TSBS406	TC..0902..	SBS406	TP..0902..			6	6	55	0.03
	TBS408	CC..0602..	TSBS408	TC..0902..	SBS408	TP..0902..	SBS408A	TP..0902..	8	8	55	0.04
	TBS410	CC..0602..	TSBS410	TC..0902..	SBS410	TP..0902..	SBS410A	TP..0902..	10	10	65	0.06
	TBS413	CC..09T3..	TSBS413	TC..1102..	SBS413	TP..1103..	SBS413A	TP..1103..	13	13	80	0.12
	TBS416	CC..09T3..	TSBS416	TC..16T3..	SBS416	TP..1103..	SBS416A	TP..1103..	16	16	120	0.26
					SBS416B	TP..1603..			16	16	120	0.26
	TBS419	CC..1204..	TSBS419	TC..16T3..	SBS419	TP..1603..	SBS419A	TP..1603..	19	19	140	0.40
	TBS425	CC..1204..	TSBS425	TC..16T3..	SBS425	TP..1603..			25	25	150	0.73
  	TBS906	CC..0602..	TSBS906	TC..0902..	SBS906	TP..0902..			6	6	55	0.03
	TBS908	CC..0602..	TSBS908	TC..0902..	SBS908	TP..0902..	SBS908A	TP..0902..	8	8	55	0.04
	TBS910	CC..0602..	TSBS910	TC..0902..	SBS910	TP..0902..	SBS910A	TP..0902..	10	10	65	0.06
	TBS913	CC..09T3..	TSBS913	TC..1102..	SBS913	TP..1103..	SBS913A	TP..1103..	13	13	80	0.12
	TBS916	CC..09T3..	TSBS916	TC..16T3..	SBS916	TP..1103..	SBS916A	TP..1103..	16	16	120	0.26
					SBS916B	TP..1603..			16	16	120	0.26
	TBS919	CC..1204..	TSBS919	TC..16T3..	SBS919	TP..1603..			19	19	140	0.40
	TBS925	CC..1204..	TSBS925	TC..16T3..	SBS925	TP..1603..			25	25	150	0.73
 	TBS906L	CC..0602..							6	6	55	0.03
	TBS908L	CC..0602..							8	8	55	0.04
	TBS910L	CC..0602..							10	10	65	0.06
	TBS913L	CC..09T3..							13	13	80	0.12
	TBS916L	CC..09T3..							16	16	120	0.26
	TBS919L	CC..1204..							19	19	140	0.40
	TBS925L	CC..1204..							25	25	150	0.73
					BSB916	TP..1103..			16	16	150	0.30
					BSB920	TP..1103..			20	20	150	0.40

Insert	Screw	Wrench	Insert	Screw	Wrench	Insert	Screw	Wrench
								
CC..0602..	MS2506A	ETF09	TC..0902..	MS2206A	ETF07	TP..0902..	MS2506A	ETF09
CC..09T3..	MS4011A	ETF15	TC..1102..	MS2506A	ETF09	TP..1103..	MS3008A	ETF09
CC..1204..	MS5011A	ETF20	TC..16T3..	MS4011A	ETF15	TP..1603..	MS4011A	ETF15

卡式刀座 (符合ISO規格) Cartridges Meet With Iso Std.

Cartridges shape	Item code	Dimensions,mm						Insert	Weight (kg)
		L1	L8	F	H	D _{min}	Rε		
SCFCR  Screw clamp Kr=90°  	SCFCR-08CA-06	32	15	10	8	25	0.4	CC..0602..	0.03
	SCFCR-10CA-09	50	30	14	10	40	0.4	CC..09T3..	0.08
	SCFCR-12CA-12	55	35	20	12	50	0.8	CC..1204..	0.11
SRSCR  Screw clamp Kr=120°  	SRSCR/L-10CA-10	50	30	14	10	40		RC..10T3..	0.07
SSSPR  Screw clamp Kr=45°  	SSSPR-10CA-09	50	30	14	10	40	0.4	SP..0903..	0.07
STFCR  Screw clamp Kr=90°  	STFCR-08CA-09	32	15	10	8	25	0.4	TC..0902..	0.03
	STFCR-10CA-11	50	30	14	10	40	0.4	TC..1102..	0.07
	STFCR-12CA-16	55	35	20	12	50	0.8	TC..16T3..	0.11
STFPR  Screw clamp Kr=90°  	STFPR-08CA-09	32	15	10	8	25	0.4	TP..0902..	0.03
	STFPR-10CA-11	50	30	14	10	40	0.4	TP..1103..	0.07
	STFPR-12CA-16	55	35	20	12	50	0.8	TP..1603..	0.11

內徑車刀
BORING BARS

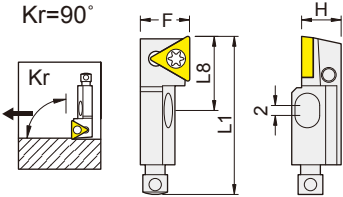
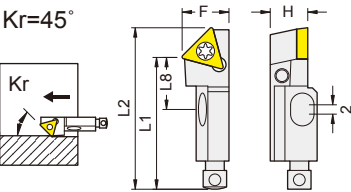
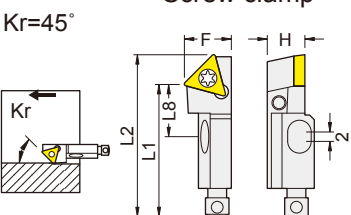
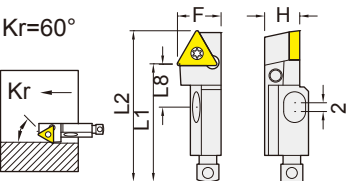
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

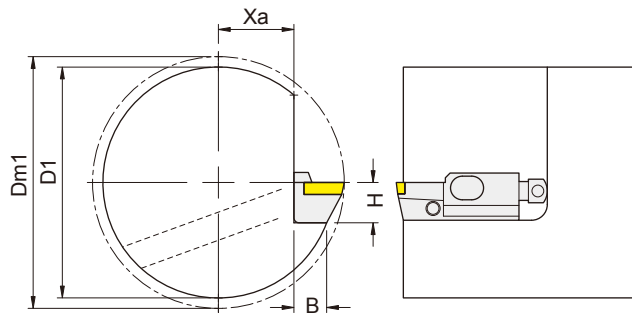
配件
SPARE PARTS

Cartridges shape	Item code	Dimensions,mm							Insert	Weight (kg)
		L1	L2	L8	F	H	D _m _{min}	Rε		
STGCL  Screw clamp 	STGCL-12CA-16	55	--	35	20	12	75	0.8	TC..16T3..	0.11
STSPR  Screw clamp 	STSPR-08CA-09	28	34.1	11	10	8	25	0.4	TP..0902..	0.03
	STSPR-10CA-11	44	51.0	24	14	10	40	0.4	TP..1103..	0.07
	STSPR-12CA-16	47	57.0	27	20	12	50	0.8	TP..1603..	0.11
STSCR  Screw clamp 	STSCR-08CA-09	28	34.1	11	10	8	25	0.4	TC..0902..	0.03
	STSCR-10CA-11	44	51.0	24	14	10	40	0.4	TC..1102..	0.07
	STSCR-12CA-16	47	57.0	27	20	12	50	0.8	TC..16T3..	0.11
STTCR  Screw clamp 	STTCR-08CA-09	27	34.1	10	10	8	25	0.4	TC..0902..	0.03

NEW



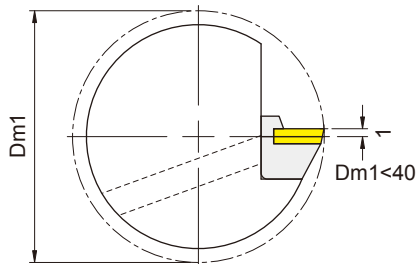
Axial mounting



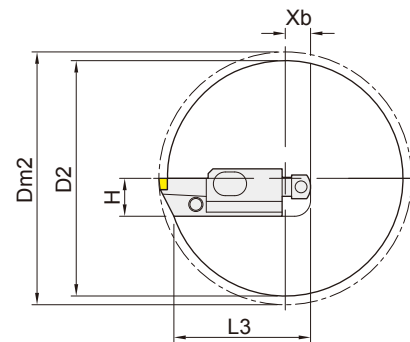
$$Xa = \frac{Dm1}{2} - F$$

Axial adjust= ±1mm
Radial adjust= +0.5mm

$$D1 = 2 \sqrt{H^2 + (B \pm Xa)^2}$$



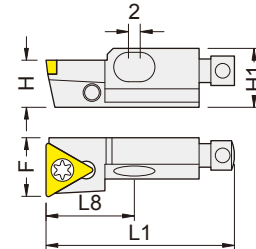
Radial mounting



$$Xb = L1 - \frac{Dm2}{2}$$

Axial adjust= +0.5mm
Radial adjust= ±1mm

$$D2 = 2 \sqrt{H^2 + (L3 \pm Xb)^2}$$



內徑車刀
BORING BARS

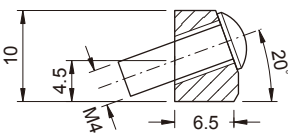
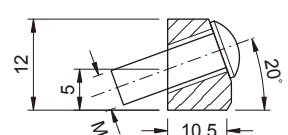
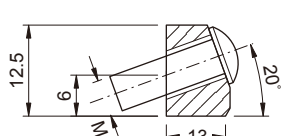
外徑車刀
TOOL HOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS

Cartridge size	Item code	Screw 	Wrench 	Screw 	Wrench 	Screw 	Screw 	Wrench 
08CA 	STFCR-08CA-09	HM408	PL20	HTR414	PL25	RTM412	MS2206A	ETF07
	STSCR-08CA-09							
	STTCR-08CA-09							
	SCFCR-08CA-06	HM408	PL20	HTR414	PL25	RTM412	MS2506A	ETF09
	STFPR-08CA-09							
	STSPR-08CA-09							
10CA 	STFCR-10CA-11	HM410	PL20	HTR623	PL40	RTM515	MS2506A	ETF09
	STSCR-10CA-11							
	STFPR-10CA-11							
	STSPR-10CA-11							
	SRSCR/L-10CA-10						MS3008A	
	SCFCR-10CA-09						MS3509A	ETF15
	SSSPR-10CA-09						MS4011A	
	12CA 						SCFCR-12CA-12	HM412
STGCL-12CA-16		MS4011A	ETF15					
STFCR-12CA-16								
STFPR-12CA-16								
STSCR-12CA-16								
STSPR-12CA-16								