

Coolant steel shank
中心出水鋼柄 示意圖

BORING BARS
內徑車刀

TOOLHOLDERS
外徑車刀

THREADING & GROOVING
牙刀 & 開槽刀

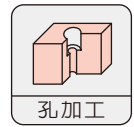
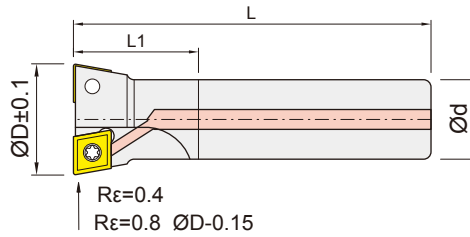
MILLING
銑刀

BORING TOOLS COMPONENTS
孔加工

SPARE PARTS
配件

Item code	L	Item code	L	Item code	L	Item code	L	Dimensions,mm			Teeth	Insert										
								D Re=0.4	d	L1												
NEW TB08E-S16-120	120	TB10E-S16-160	160	TB12E-S16-200	200			8.0	16	12	1	CC..060204										
NEW TB09E-S16-120								14														
NEW TB10E-S16-120								25														
NEW TB11E-S16-120								30														
TB12E-S16-120																						
TB13E-S16-120																						
TB14E-S16-120																						
TB15E-S16-120													15.0									
TB16E-S16-120	120							TB16E-S16-160		160			TB16E-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	160	TB23E-S20-200	200	TB24E-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								TB27E-S20-160		TB27E-S20-200				TB27E-S20-250		27.0						
								TB28E-S20-130		TB28E-S20-200				TB28E-S20-250		28.0						
								TB29E-S20-130		TB29E-S20-200						29.0						
NEW TB30E-S25-160	160							TB30E-S25-200	200	TB30E-S25-250			250	TB33E-S25-300	300	30.0		25	40	2	CC..09T304	
NEW 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



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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 ② ③ ④	① 刃徑 TB20(ØD = 19.8 ±0.1) TB20E(ØD = 20.0 ±0.1)
	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

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BORING BARS

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TOOLHOLDERS

牙刀 & 開槽刀
THREADING & GROOVING

銑刀
MILLING

孔加工
BORING TOOLS COMPONENTS

配件
SPARE PARTS