

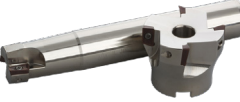
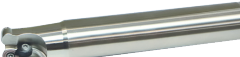
5

CUTTER SERIES >



CUTTER SERIES

WIDIN

Series	Appearance	EDP. No.	Page	Series	Appearance	EDP. No.	Page
EndMill Cutter		ENCC	678	Multi Mill Cutter		SSC	687
		ENCC	679	Ball Cutter		BMCC	688
		ENCC	680			BMCC-MD	689
		AHU	681			BPUX	689
Radius Cutter		RMCC	682			BPUX	690
		RMCC	683			WRMC-T	690
		C-RDT	684			WRMC-T	690
Finishing Endmill Cutter		ASMC	685			TRMC	691
		MPMC	685			TRMS	691
Multi Mill Cutter		RSCC	686			TRMC	692
		SSCC	687			TRMS	692

CUTTER SERIES

WIDIN

Series	Appearance	EDP. No.	Page	Series	Appearance	EDP. No.	Page
Ball Cutter		BWSF (Finish)	693	Shell Mill Cutter		SECC	699
		BWSC (Rough)	693	Ball Cutter Finishing		BFCC	700
		SRM	694			C-BFCC	700
		BHSF	694			ABPF	701
		GBEC	695			C-ABPF	701
		HESC	696			SRFH	702
Helical Cutter		HMCC-BT	697			C-SRFH	702
		HNCC	697			C-RMMC	703
		HMCC-MD	698	Multi Mill Cutter		AJUL	704
		FPCC	698			AJSL	704
Shell Mill Cutter		SMCC	699				

CUTTER SERIES

WIDIN

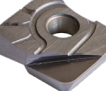
Series	Appearance	EDP. No.	Page
EndMill Cutter		AQXR	705
		TEBL	706
		SECL	707
		AHJL	707
		ASRL	708
		ASRL-Pico	709
		ASRL-Pico	709
		BSR	710
		BSR	710
		AJXC	711
		SKSC	712

Series	Appearance	EDP. No.	Page
Finishing Endmill Cutter		IHCC	713
Ball Cutter		M-ABPF	714
		M-SRFH	714
		M-BFCC	715
		M-SRM	715
		M-BHSF	716
		M-GBEC	716
EndMill Cutter		M-AJXC	717
		M-SKSC	717
		M-ASRL	718
		M-ASRL-Pico	718

CUTTER SERIES

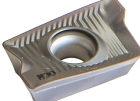
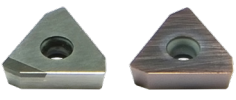
WIDIN

Series	Appearance	EDP. No.	Page
EndMill Cutter		M-RMCC	719
		M-AQXR	719
		M-SECL	720
Chamfer Mill Cutter		CHCL	721
		CSCC	721
Blades		SD Blade	722
		CTHT	722
Insert tip		Finishing Ball Insert (ZPSW)	723
		Finishing Ball Insert (SP3204)	723
		Finishing Corner Radius Insert (ZPSR)	724
		Round Insert (RDMW)	725

Series	Appearance	EDP. No.	Page
Insert tip		Ball Insert (LBH)	725
		Corner Radius LRH Insert(LRH)	726
		Ball Cutter (RB-MX50M)	727
		Helical Cutter Insert (SPMT)	727
		Helical Cutter Insert (ZPMT)	727
		Finishing Mill Insert (WDMW)	728
		Finishing Mill Insert (EOMT)	728
		Indexable Milling Insert (EDNW)	729
		Indexable Milling Insert (EDNW)	729
		Indexable Milling Insert (JOMW)	729
		Indexable Insert (ZPET)	730

CUTTER SERIES

WIDIN

Series	Appearance	EDP. No.	Page
Insert tip		Indexable Milling In- sert(JDMT)	730
		APKT17 (MT, EM, SU) Insert	731
		APKT17 (AL)Insert	732
		APKT09 (MT, SU) Insert	733, 734
		APKT09 (EM) Insert	733
		APKT09 (AL)Insert	734
		Chamfering Mill Insert	735
		Rounding Insert	735
		Finishing Mill Insert (QOMT)	736
		CBN Insert	736
		Rounding Insert	737

Series	Appearance	EDP. No.	Page
Face Cutter		Medium Cutting Cutter	738
		IMCC	738
		CMCC	739
Side Cutter		Side Milling Cutter	740
		Circular Face Cutter	740
Key-Home Cutter		Key-Home Cutter	741
		Key-Home Cutter, Outside Cutter	741
		Corner R Holder	741
		Relief Cutter	742

CUTTER SERIES

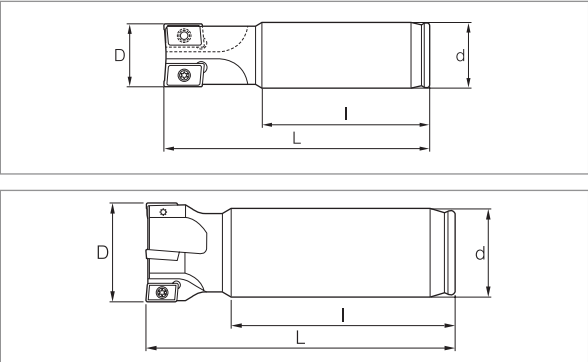
WIDIN

Series	Appearance	EDP. No.	Page
Relief Cutter		U-Home Cutter	742
Post U-Drill		Post U-Drill	743
		T-Cutter	743
Ball Gauge		Ball Gauge	744
		Outside Setting Bar	744
Post Medium Cutting Cutter		Medium Cutter Arbor/ SSCC Cutter Arbor	745
		Medium Boring Cutter	745
Quick Change Collet		Radial Tapping Chuck	746
Counter Bore		Counter Bore	747
Reamer		Helix Reamer	747
Post Medium Cutting Cutter Arbor		FPCC-ST Arbor	748
		Extention Arbor	748

Series	Appearance	EDP. No.	Page
Plunge Cutter		Slotting Cutter	749
Arbor		Arbor	749
Finish Cutter		M.S Cutter	750
		M.S Cutter Part	750
		M.S Cutter Insert	750
Arbor		BT50- WMA	751
		FPM	752
Shrink Fit Chuck		Shrink Fit Chuck	753
		Shrink Fit Chuck	753
Block		Setting Block	754
		Setting Block	755

ENDMILL CUTTER

▶ ENCC



- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN, TAEGU-TEC

Part No.	Dimensions(mm)										
	D	d	L	I							
ENCC-1609180	16	16	180	145	2	APKT09T3	ST2553-55 M2.5	TX-8			
ENCC-1709180	17		180	155							
ENCC-2009200	20	20	200	160							
ENCC-2109150	21		150	120							
ENCC-2109200	21	25	200	170	3						
ENCC-2509200	25		200	160							
ENCC-2609150	26		150	120							
ENCC-2609200	26		200	170							
ENCC-3209200	32	32	200	150	4						
ENCC-3309150	33		150	110							
ENCC-3309200	33		200	160							
ENCC-3309250	33		250	210							

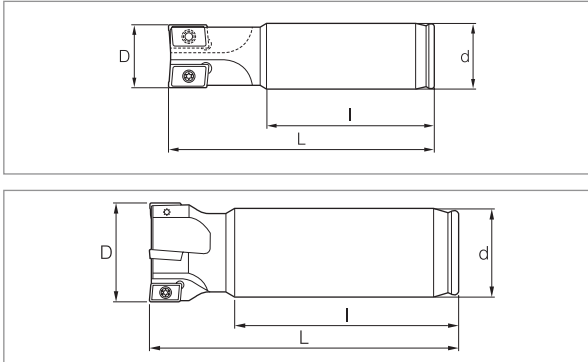
- STRAIGHT SHANK TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)							
	D	d	L	I				
ENCC-2515150	25	25	150	110	2	AP..15T3	ST3509-55 M3.5	TX-15
ENCC-2515200	25	25	200	160	2			
ENCC-2615200	26	25	200	160	2			
ENCC-3215150	32	32	150	110	2			
ENCC-3215200	32	32	200	160	2			
ENCC-3215250	32	32	250	210	2			
ENCC-3215300	32	32	300	260	2			
ENCC-3315200	33	32	200	160	2			
ENCC-4015150	40	32	150	110	3			
ENCC-4015200	40	32	200	100	3			
ENCC-4015250	40	32	250	210	3			
ENCC-4015300	40	32	300	200	3			
ENCC-5015150	50	32	150	70	4			
ENCC-5015200	50	32	200	150	4			
ENCC-5015250	50	32	250	250	4			
ENCC-5015300	50	32	300	300	4			
ENCC-5015150L	50	42	150	100	4			
ENCC-5015200L	50	42	200	150	4			
ENCC-5015250L	50	42	250	200	4			
ENCC-5015300L	50	42	300	250	4			

ENDMILL CUTTER

▶ ENCC



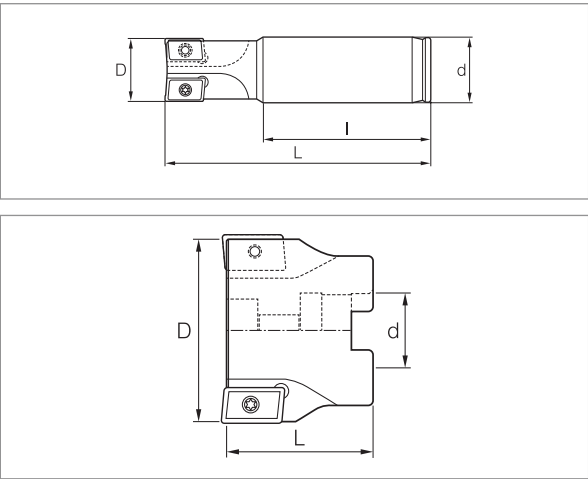
- STRAIGHT SHANK TYPE

INSERT TYPE → DURACARB, SECO, KORLOY, WIDIN

Part No.	Dimensions(mm)										
	D	d	L	I							
ENCC-2516150	25	25	150	110	2	AP..1604	ST4084-60 M4	TX-15			
ENCC-2516200	25	25	200	160							
ENCC-2516250	25	25	250	210							
ENCC-2616150	26	25	150	110							
ENCC-2616200	26	25	200	160							
ENCC-3216150	32	32	150	110							
ENCC-3216200	32	32	200	160							
ENCC-3216250	32	32	250	210							
ENCC-3216300	32	32	300	260							
ENCC-3316150	33	32	150	110							
ENCC-3316200	33	32	200	160							
ENCC-3316250	33	32	150	210							
ENCC-4016150	40	32	150	110	3		ST4101-60W M4		TX-15		
ENCC-4016200	40	32	200	160							
ENCC-4016250	40	32	250	210							
ENCC-4016300	40	32	300	260							
ENCC-5016150	50	32	150	110	4					ST4101-60W M4	TX-15
ENCC-5016200	50	32	200	160							
ENCC-5016250	50	32	250	210							
ENCC-5016300	50	32	300	260							
ENCC-5016150L	50	42	150	110							
ENCC-5016200L	50	42	200	160							
ENCC-5016250L	50	42	250	210							
ENCC-5016300L	50	42	300	260							

ENDMILL CUTTER

▶ ENCC



- STRAIGHT SHANK TYPE

INSERT TYPE → **TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)							
	D	d	L	l				
ENCC-2517150	25	25	150	110	2	APKT 1705	ST4084-60 M4	TX-15
ENCC-2517200	25	25	200	160				
ENCC-2617150	26	25	150	110				
ENCC-2617200	26	25	200	160				
ENCC-3217150	32	32	150	110				
ENCC-3217200	32	32	200	160				
ENCC-3217250	32	32	250	210				
ENCC-3317150	33	32	150	110				
ENCC-3317200	33	32	200	160				
ENCC-3317250	33	32	250	210				
ENCC-4017150	40	32	150	110	3		ST4101-60W M4	
ENCC-4017200	40	32	200	160				
ENCC-4017250	40	32	250	210				
ENCC-5017150	50	32	150	110	4			
ENCC-5017200	50	32	200	160				
ENCC-5017250	50	32	250	210				
ENCC-5017150-L	50	42	150	110				
ENCC-5017200-L	50	42	200	160				
ENCC-5017250-L	50	42	250	210				

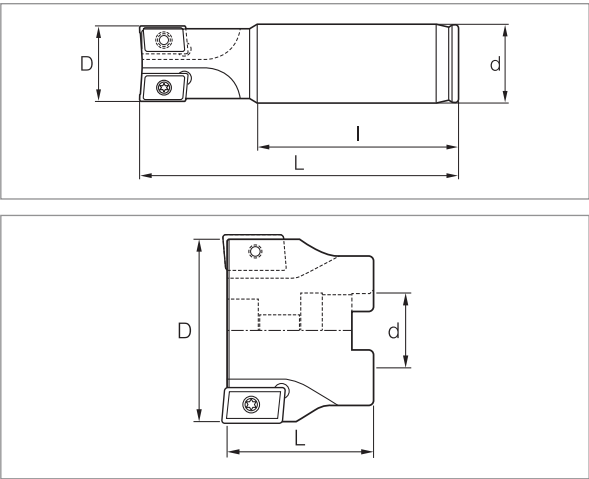
- BORE MOUNTED TYPE

INSERT TYPE → **TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)						
	D	d	L				
ESCC-501722	50	22	50	3	APKT 1705	ST4101-60W M4	TX-15
ESCC-631722	63	22	50	4			
ESCC-801727	80	27	50	7			

ENDMILL CUTTER

▶ AHU



- STRAIGHT SHANK TYPE

INSERT TYPE → **HITACHI, WIDIN**

Part No.	Dimensions(mm)							
	D	d	L	I				
AHU-1610170	16	16	170	140	2	JDMT 1003..R	ST2553-55 M2.5	TX-8
AHU-1710170	17	16	170	140				
AHU-2010200	20	20	200	170				
AHU-2010250	20	20	250	210				
AHU-2110200	21	20	200	170				
AHU-2110250	21	20	250	210				
AHU-2515200	25	25	200	160		JDMT 1505..R	ST4084-60 M4	TX-15
AHU-2515250	25	25	250	210				
AHU-2615200	26	25	200	160				
AHU-2615250	26	25	250	210				
AHU-3215200	32	32	200	160				
AHU-3215250	32	32	250	210				
AHU-3215300	32	32	300	260				
AHU-3315200	33	32	200	160				
AHU-3315250	33	32	250	210				
AHU-3315300	33	32	300	260				

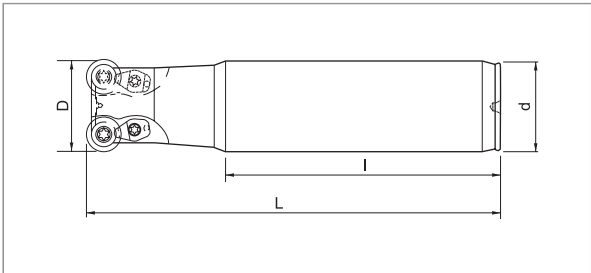
- BORE MOUNTED TYPE

INSERT TYPE → **HITACHI, WIDIN**

Part No.	Dimensions(mm)						
	D	d	L				
AHUS-3050-22	50	22	50	3	JDMT 1505..R	ST4101-60W M4	TX-15
AHUS-4050-22	50	22	50	4			
AHUS-3063-22	63	22	50	3			
AHUS-4063-22	63	22	50	4			
AHUS-3050-22.225	50	22.225	50	3			
AHUS-4050-22.225	50	22.225	50	4			
AHUS-3063-25.4	63	25.4	50	3			
AHUS-4063-25.4	63	25.4	50	4			

RADIUS CUTTER

► RMCC



- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WALTER, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	I					
RMCC-1608170	16	16	170	135	2	RDMW0803		ST307-55 M3	TX-8
RMCC-1708170	17	16	170	135					
RMCC-2008200	20	20	200	165					
RMCC-2108200	21	20	200	165					
RMCC-2010200	20	20	200	165					
RMCC-2110200	21	20	200	165					
RMCC-2510150	25	25	150	115		RDMT10T3	CL2C 2CLCN	ST408-43 M4	TX-15
RMCC-2510200	25	25	200	155					
RMCC-2610150	26	25	150	115					
RMCC-2610200	26	25	200	155					

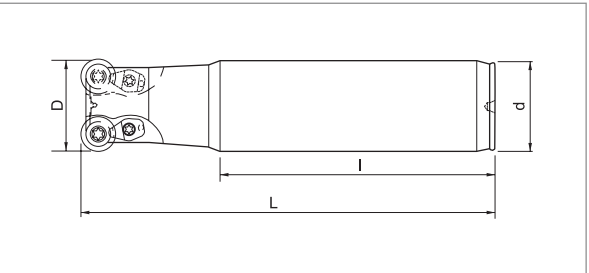
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	I					
RMCC-1608170-H	16	16	170	135	2	RDMT0802	CL2C 2CLCN	ST307-55 M3	TX-8
RMCC-1708170-H	17	16	170	135					
RMCC-2008200-H	20	20	200	165					
RMCC-2108200-H	21	20	200	165					

RADIUS CUTTER

► RMCC



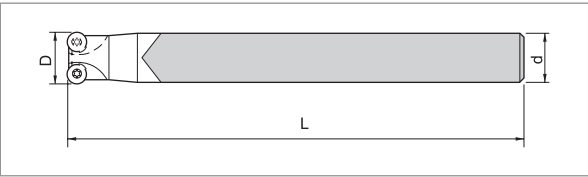
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WALTER, WIDIN

Part No.	Dimensions(mm)										
	D	d	L	I							
RMCC-2512150	25	25	150	105	2	RDMT 1204 RDMW 1204	CL2C 2CLCN	ST4084-60 M4	TX-15		
RMCC-2512200	25	25	200	155							
RMCC-2512250	25	25	250	205							
RMCC-2612150	26	25	150	105							
RMCC-2612200	26	25	200	155							
RMCC-2612250	26	25	250	205							
RMCC-2612300	26	25	300	255							
RMCC-3212150	32	32	150	100							
RMCC-3212200	32	32	200	150							
RMCC-3212250	32	32	250	200							
RMCC-3212300	32	32	300	250							
RMCC-3312150	33	32	150	100							
RMCC-3312200	33	32	200	150							
RMCC-3312250	33	32	250	200							
RMCC-3312300	33	32	300	250							
RMCC-3512150	35	32	150	105	3						
RMCC-3512200	35	32	200	155							
RMCC-3512300	35	32	300	255							
RMCC-4012150	40	32	150	105							
RMCC-4012200	40	32	200	155							
RMCC-4012300	40	32	300	255	4						
RMCC-5012150	50	32	150	105							
RMCC-5012200	50	32	200	155							
RMCC-5012300	50	32	300	255							
RMCC-5012150L	50	42	150	105							
RMCC-5012200L	50	42	200	155							
RMCC-5012300L	50	42	300	255							

RADIUS CUTTER

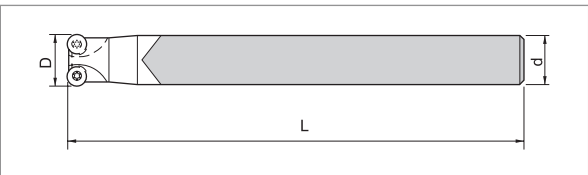
► C-RDT



- CARBIDE SHANK TYPE

INSERT TYPE → TUNGALOY, WIDIN

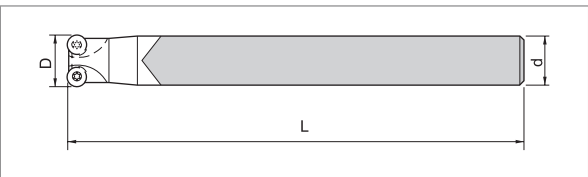
Part No.	Dimensions(mm)						
	D	d	L				
C-RDTT-1010135	10	10	135	2	RDMW 0501M0	ST18042-50 M1.8	TX-6
C-RDTT-1110135	11	10	135				
C-RDTT-1212150	12	12	150				
C-RDTT-1312150	13	12	150				
C-RDTT-1312150-3F	13	12	150	3	RDMW 0702M0	ST2553-55 M2.5	TX-8
C-RDTT-1616200	16	16	200	2			
C-RDTT-1716200	17	16	200				



- CARBIDE SHANK TYPE

INSERT TYPE → DIJET

Part No.	Dimensions(mm)						
	D	d	L				
C-RDTD-1010135	10	10	135	2	RDMW 0501M0EN	ST18042-50 M1.8	TX-6
C-RDTD-1110135	11	10	135				
C-RDTD-1212150	12	12	150				
C-RDTD-1312150	13	12	150				
C-RDTD-1312150-3F	13	12	150	3	RDMW 0701M05	ST2553-55 H2.5	TX-8
C-RDTD-1616200	16	16	200	2			
C-RDTD-1716200	17	16	200				



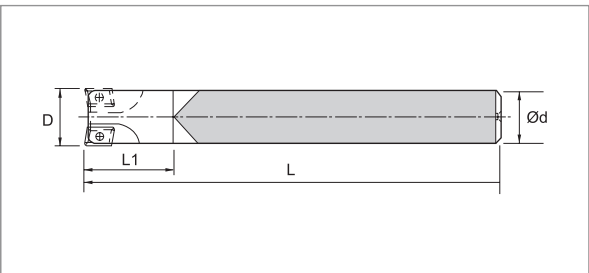
- CARBIDE SHANK TYPE

INSERT TYPE → MITSUBISHI

Part No.	Dimensions(mm)						
	D	d	L				
C-RDTM-1010135	10	10	135	2	RDMW 0517MOE	ST2043-60H H2.0	TX-6
C-RDTM-1110135	11	10	135				
C-RDTM-1212150	12	12	150				
C-RDTM-1312150	13	12	150				
C-RDTM-1312150-3F	13	12	150	3	RDMW 0724MOE	ST22045-55 M2.2	TX-8
C-RDTM-1616200	16	16	200	2			
C-RDTM-1716200	17	16	200				

FINISHING ENDMILL CUTTER

► ASMC

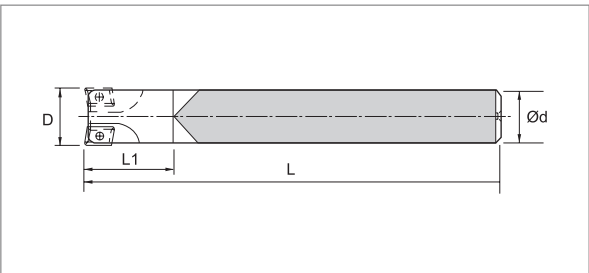


- CARBIDE SHANK TYPE

INSERT TYPE → HITACHI

Part No.	Dimensions(mm)							
	D	d	L	L ₁				
C-ASMC-1010120	10	10	120	30	2	JDMT0702	TS-M1.8	TX-6
C-ASMC-1110120	11	10	120					
C-ASMC-1212150	12	12	150					
C-ASMC-1312150	13	12	150					
C-ASMC-1616180	16	16	180		4			
C-ASMC-1716180	17	17	180					

► MPMC



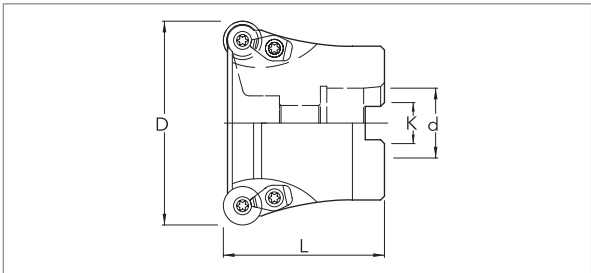
- CARBIDE SHANK

INSERT TYPE → DIJET, WIDIN

Part No.	Dimensions(mm)							
	D	d	L	L ₁				
C-MPMC-1010120	10	10	120	30	2	EQMC060210ER EOMT060210ZER	TS-M1.8	TX-6
C-MPMC-1110120	11	10	120					
C-MPMC-1212150	12	12	150					
C-MPMC-1312150	13	12	150					
C-MPMC-1616180	16	16	180		4			
C-MPMC-1716180	17	16	180					

MULTI MILL CUTTER

► RSCC



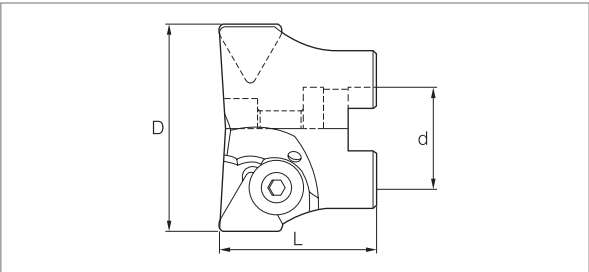
- BORE MOUNTED TYPE

INSERT TYPE → HITACHI, WALTER, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	K					
RSCC-0501222D-3F	50	22	50	10.4	3	RDMT1204	CL2C 2CLCN	ST4101-60W M4	TX-15
RSCC-0501222D-4F	50	22		10.4	4				
RSCC-0631222D	63	22		10.4	5				
RSCC-0631227D	63	27		12.4	5				
RSCC-0801232D	80	32		14.4	6				
RSCC-1001232D	100	32		14.4	8				
RSCC-0501622D	50	22		10.4	3	RDMT1605	3CLCN	ST512-63P M5	TX-20
RSCC-0631627D	63	27		12.4	4				
RSCC-0801632D	80	32		14.4	4				

MULTI MILL CUTTER

► SSCC

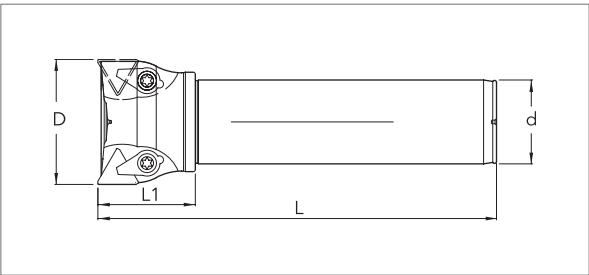


- BORE MOUNTED TYPE

INSERT TYPE → TAEQU-TEC

Part No.	Dimensions(mm)				SHIM				
	D	d	L						
SSCC-6322254	63	25.4	50	3	-	ST307-55 M3.0	TP..2204	CSB-8018	L-5
SSCC-8022254	80	25.4		4	CST-42SE				
SSCC-1002231	100	31.75		5					

► SSC



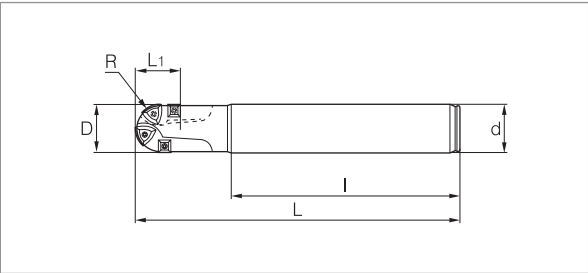
- STRAIGHT SHANK TYPE

INSERT TYPE → TAEQU-TEC

Part No.	Dimensions(mm)							
	D	d	L	I				
SSC-D504222-200	50	42	200	50	3	TP... 2204	TP22	L-5
SSC-D504222-250	50		250					
SSC-D634222-200	63		200					
SSC-D634222-250	63		250					
SSC-D634222-300	63		300					

BALL CUTTER

BMCC



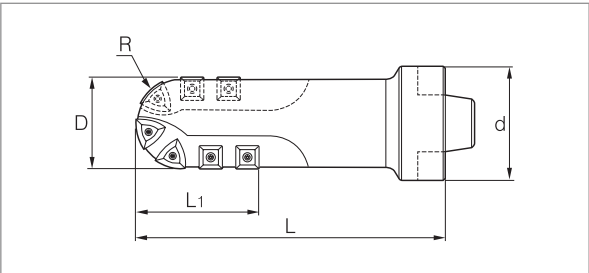
- STRAIGHT SHANK TYPE

INSERT TYPE → WALTER, DURACARB, TAEGU-TEC, WIDIN

Part No.	Dimensions(mm)							NO.OF INSERT		NO.OF INSERT													
	R	D	d	L	I	L ₁																	
BMCC-R1020135	10	20	20	135	90	20.5	P26315-R10 RBET 20-M	2	P28415-00 SPMT060308	2	ST2553-55 M2.5	TX-8											
BMCC-R1020170	10	20	20	170	125	20.5																	
BMCC-R1020200	10	20	20	200	155	20.5																	
BMCC-R1225140	12.5	25	25	140	90	23	P26315-R12 RBET 25-M						CSM090308 SDMT090308	ST408-43 M4	TX-15								
BMCC-R1225170	12.5	25	25	170	120	23																	
BMCC-R1225200	12.5	25	25	200	150	23																	
BMCC-R1225250	12.5	25	25	250	200	23																	
BMCC-R1225300	12.5	25	25	300	250	23	P26315-R15 RBET 30-M		CSM1208 SP..1204		ST511-43 M5	TX-20											
BMCC-R1532150	15	30	32	150	80	30.5																	
BMCC-R1532200	15	30	32	200	120	30.5																	
BMCC-R1532250	15	30	32	250	150	30.5																	
BMCC-R1532300	15	30	32	300	250	30.5																	
BMCC-R1632150	16	32	32	150	80	31.5	P26315-R16 RBET 32-M									RBEX 50-M	3	4					
BMCC-R1632200	16	32	32	200	120	31.5																	
BMCC-R1632250	16	32	32	250	150	31.5																	
BMCC-R1632300	16	32	32	300	250	31.5	P26315-R20 RBEX 40-M												RBEX 50-M	3	4		
BMCC-R2042150	20	40	42	150	80	39.5																	
BMCC-R2042200	20	40	42	200	80	39.5	RBEX 50-M															RBEX 50-M	3
BMCC-R2542150	25	50	42	150	80	49.5																	
BMCC-R2542200	25	50	42	200	85	49.5																	
BMCC-R2542250	25	50	42	250	85	49.5																	
BMCC-R2550.8200	25	50	50.8	200	100	67																	
BMCC-R2550.8250	25	50	50.8	250	100	67																	

BALL CUTTER

BMCC-MD

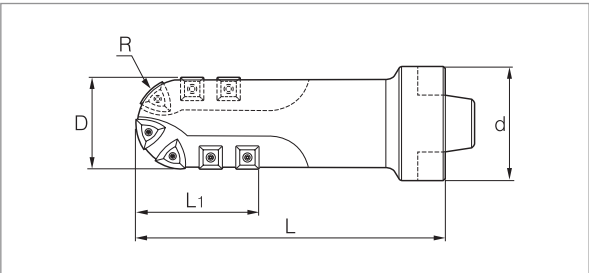


- STRAIGHT SHANK TYPE

INSERT TYPE → WALTER, TAEGU-TEC, WIDIN

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT		
	R	D	d	L	L ₁						
BMCC-R2563140	25	50	63	140	67	RBEX 50M RBMX 50-M	3	SP..1204	4	ST511-43 M5	TX-20
BMCC-R2563170			63	170	67				6		
BMCC-R2563170-SP			63	170	87						
BMCC-R2563200			63	200	87						
BMCC-R2563250			63	250	87						
BMCC-R2580300			80	300	87						
BMCC-R2580350			80	350	87						

BPUX



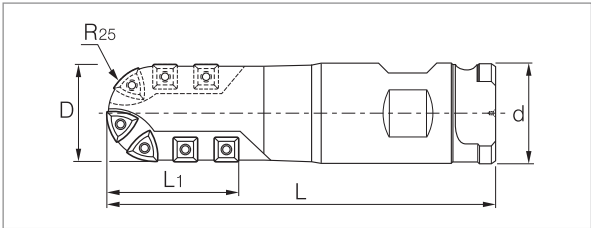
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT		
	R	D	d	L	L1						
BPUX-R2563140	25	50	63	140	67	YPNW25006S YPMT25006S	3	SPMT120408	4	912-141 M6 ST511-43 M5	TX-25 TX-20
BPUX-R2563170				170							
BPUX-R2563200				200							
BPUX-R2563250				250							

BALL CUTTER

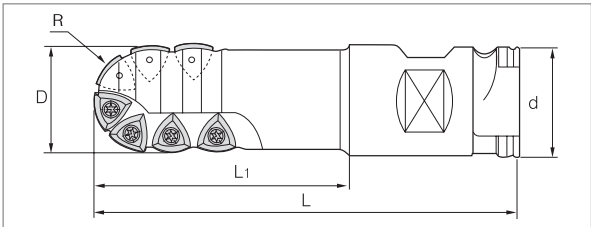
► BPUX



- STRAIGHT SHANK TYPE INSERT TYPE → HITACHI, WIDIN

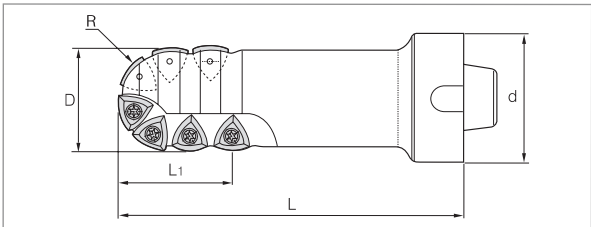
Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT		
	R	D	d	L	L1						
BPUX-R2550.8200	25	50	50.8	200	67		3	SPMT120408	4	912-141 M6	TX-25
BPUX-R2550.8250				250							
BPUX-R2550.8300				300							

► WRMC-T



- STRAIGHT SHANK TYPE INSERT TYPE → TAEGU-TEC, WIDIN, DURACARB

Part No.	Dimensions(mm)						NO.OF INSERT			
	R	D	d	L	L1					
WRMC-R2550.8200-T	25	50	50.8	200	100		7	RBEX 50-M	ST511-43	TX-20
WRMC-R2550.8250-T				250	150					
WRMC-R2550.8300-T				300	200					

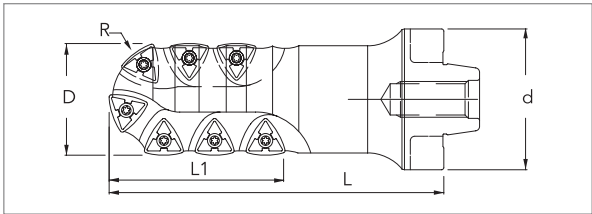


- MODULAR SHANK TYPE INSERT TYPE → TAEGU-TEC, WIDIN, DURACARB

Part No.	Dimensions(mm)						NO.OF INSERT			
	R	D	d	L	L1					
WRMC-R2563140-T	25	50	63	140	65		7	RBEX 50-M	ST511-43	TX-20
WRMC-R2563170-T				170						
WRMC-R2563200-T				200						

BALL CUTTER

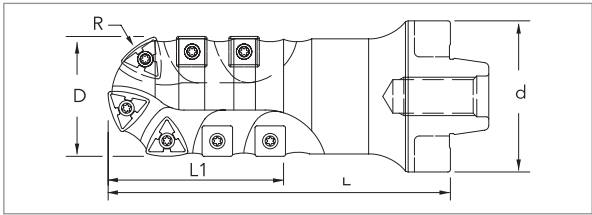
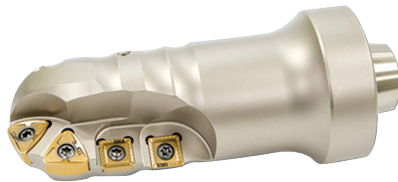
► TRMC



- MODULAR SHANK TYPE INSERT TYPE → TAEGU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		
	R	D	d	L	L1				
TRMC-R2563140	25	50	63	140	77		7	ST511-43 M5	TX-20
TRMC-R2563170				170					
TRMC-R2563200				200					

► TRMS

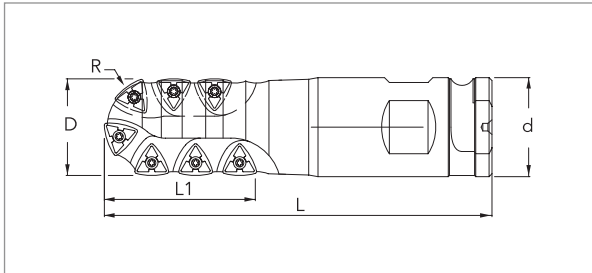


- MODULAR SHANK TYPE INSERT TYPE → TAEGU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT		
	R	D	d	L	L1						
TRMS-R2563140	25	50	63	140	67		3	SP...1204	4	ST511-43 M5	TX-20
TRMS-R2563170				170							
TRMS-R2563200				200							

BALL CUTTER

▶ TRMC

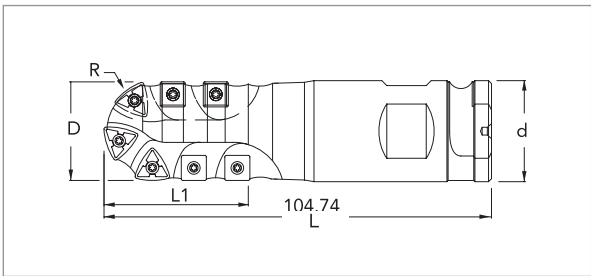


- STRAIGHT SHANK TYPE

INSERT TYPE → TAEQU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		
	R	D	d	L	L1				
TRMC-R2550.8200	25	50	50.8	200	77		6RBE-50M	7	ST511-43 M5
TRMC-R2550.8250				250					
TRMC-R2550.8300				300					

▶ TRMS



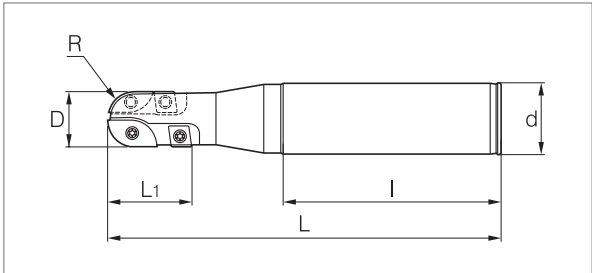
- STRAIGHT SHANK TYPE

INSERT TYPE → TAEQU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT		
	R	D	d	L	L1						
TRMS-R2550.8200	25	50	50.8	200	67		6RBE-50M	3	SP..1204	4	ST511-43 M5
TRMS-R2550.8250				250							
TRMS-R2550.8300				300							

BALL CUTTER

▶ BWSF(Finish)

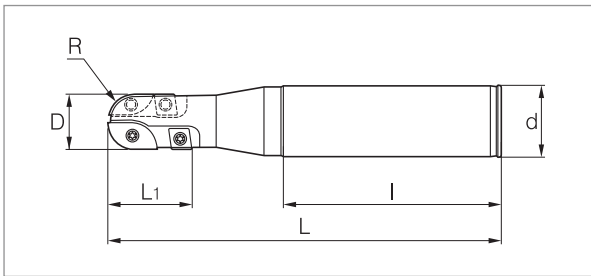


- STRAIGHT SHANK TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)						NO.OF INSERT				
	R	D	d	L	I	L1					
BWSF-R1020160	10	20	20	160	95	28	4	XD..16T3100R	SP..0603	ST3072-60H M3 ST2553-55 M2.5	TX-8
BWSF-R1020200	10	20	20	200	130	28					
BWSF-R1225160	12.5	25	25	160	95	32					
BWSF-R1225200	12.5	25	25	200	130	32		XD..2405150R	SP..09T3	ST512-63P M5 ST4084-60 M4	TX-20 TX-15
BWSF-R1532180	15	30	32	180	109	42					
BWSF-R1532250	15	30	32	250	150	42					
BWSF-R1632180	16	32	32	180	100	43	4	XD..2506160R	SP..09T3	ST512-63P M5 ST4084-60 M4	TX-20 TX-15
BWSF-R1632250	16	32	32	250	150	43					

▶ BWSC (Rough)



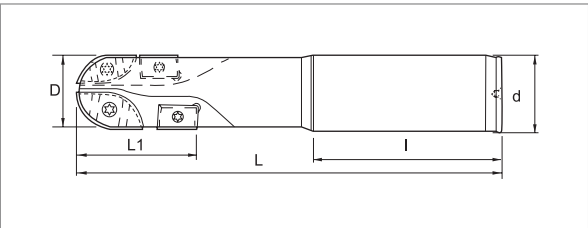
- STRAIGHT SHANK TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)					NO.OF INSERT				
	R	D	d	L	I					
BWSC-R1020160	10	20	20	160	95	4	XDMT 16T3100R	SPMT 0603	ST3072-60H M3 ST2553-55 M2.5	TX-8
BWSC-R1020200	10	20	20	200	130					
BWSC-R1225160	12.5	25	25	160	95					
BWSC-R1225200	12.5	25	25	200	130		XDMT 2405150R	SPMT 09T3	ST512-63P M5 ST4084-60 M4	TX-20 TX-15
BWSC-R1532180	15	30	32	180	109					
BWSC-R1532250	15	30	32	250	150					
BWSC-R1632180	16	32	32	180	100	4	XDMT 2506160R	SPMT 09T3	ST512-63P M5 ST4084-60 M4	TX-20 TX-15
BWSC-R1632250	16	32	32	250	150					

BALL CUTTER

► SRM

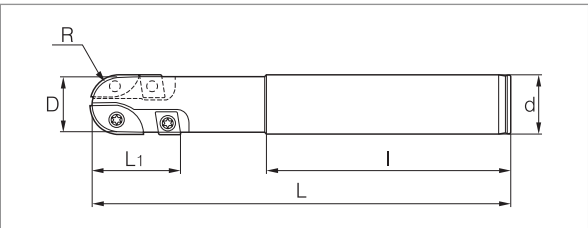


- STRAIGHT SHANK TYPE

INSERT TYPE → MITSUBISHI

Part No.	Dimensions(mm)						Master insert	Slave insert	Peripheral insert		
	R	D	d	L	I	L ₁					
SRM-R0816200-2F	8	16	16	200	150	30	SRM-16C	SR.16E	APMT 1135	ST2553-55 M2.5	TX-8
SRM-R1020200-4F	10	20	20	200	140	30	SRM-20C	SR.20E		ST3072-60H M3 ST2553-55 M2.5	TX-8
SRM-R1225200-4F	12.5	25	25	200	130	37	SRM-25C	SR.25E		ST4101-60W M4 ST2553-55 M2.5	TX-15 TX-8
SRM-R1225250-4F	12.5	25	25	250	130	37					
SRM-R1532200-4F	15	30	32	200	100	44	SRM-30C	SR.30E	APMT 1604	ST511-60H ST4084-60 M4	TX-20 TX-15
SRM-R1532250-4F	15	30	32	250	150	44					
SRM-R1532300-4F	15	30	32	300	250	44					

► BHSF



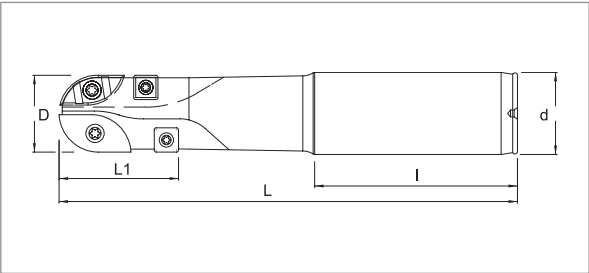
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI

Part No.	Dimensions(mm)CN						Master insert 	Slave insert 	Peripheral insert 		
	R	D	d	L	I	L ₁					
BHSF-R0816200	8	16	16	200	150	15	ZCET080CE	ZCET080SE		ST2553-55 M2.5	TX-8
BHSF-R1020160	10	20	20	160	100	30	ZCE.100CE	ZCE.100SE	CPMT 080204	ST3072-60H M3	
BHSF-R1020200	10	20	20	200	140	30				ST2553-55 M2.5	
BHSF-R1225200	12.5	25	25	200	130	37	ZCE.125CE	ZCE.125SE	CPMT 090308	ST4101-60W M4	TX-15
BHSF-R1225250	12.5	25	25	250	170	37				ST408-43 M4	
BHSF-R1532200	15	30	32	200	100	44	ZCE.150CE	ZCE.150SE		ST511-60H ST408-43 M4	TX-20 TX-15
BHSF-R1532250	15	30	32	250	100	44					
BHSF-R1532300	15	30	32	300	250	44					
BHSF-R1632200	16	32	32	200	100	44	ZCE.160CE	ZCE.160SE			
BHSF-R1632250	16	32	32	250	200	44					
BHSF-R1632300	16	32	32	300	250	44					

BALL CUTTER

► GBEC



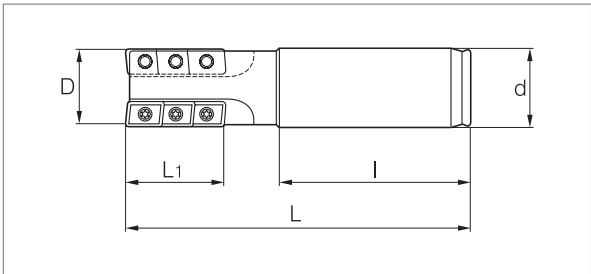
- STRAIGHT SHANK TYPE

INSERT TYPE → KORLOY, WIDIN

Part No.	Dimensions(mm)						Master insert 	Slave insert 	Peripheral insert 		
	R	D	d	L	I	L ₁					
GBEC-R0816200-2F	8	16	16	200	150	15	ZPET080M	ZPET080S		ST2553-55 M2.5	TX-8
GBEC-R1020200-4F	10	20	20	200	140	28	ZPET100M	ZPET100S	SPMT 060304	ST3072-60H M3 ST2553-55 M2.5	TX-8
GBEC-R1225200-4F	12.5	25	25	200	130	33	ZPET125M	ZPET125S		ST4101-60W M4 ST2553-55 M2.5	TX-8
GBEC-R1225250-4F	12.5	25	25	250	130	33				TX-15	
GBEC-R1532200-4F	15	30	32	200	100	41	ZPET150M	ZPET150S	SDMT 090308	ST511-63P ST4084-60 M4	TX-15 TX-20
GBEC-R1532250-4F	15	30	32	250	150	41					
GBEC-R1532300-4F	15	30	32	300	250	41					

HELICAL CUTTER

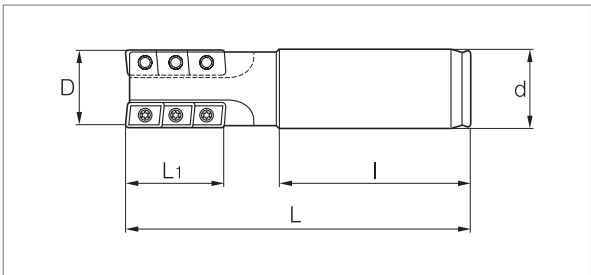
► HESC



- STRAIGHT SHANK TYPE

INSERT TYPE → **WALTER**

Part No.	Dimensions(mm)							NO.OF INSERT		
	D	d	L	I	L ₁					
HESC-3216120-W	32	32	120	60	40	2	ADMT160608R	6	ST4084-60 M4	TX-15
HESC-3216150-W	32	32	150	60	67			10		
HESC-4016135-W	40	32	135	80	40	3		12	ST4101-60W M4	
HESC-4016160-W	40	32	160	80	67			15		
HESC-5016170-W	50	42	170	80	67			15		
HESC-501650.8220-W	50	50.8	220	80	67			15		



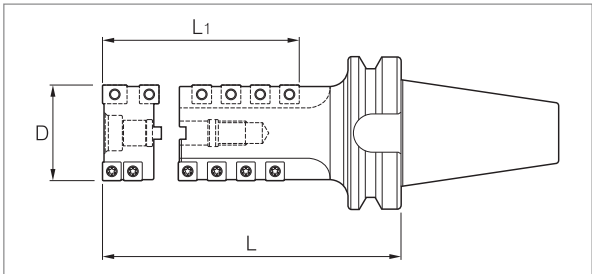
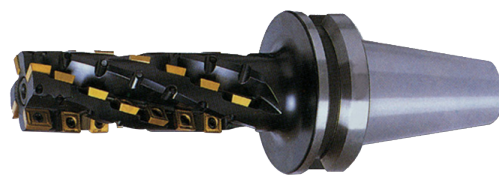
- STRAIGHT SHANK TYPE

INSERT TYPE → **TAEGU-TEC, SECO, KORLOY, WIDIN**

Part No.	Dimensions(mm)							NO.OF INSERT		
	D	d	L	I	L ₁					
HESC-3216120	32	32	120	60	42	2	AP...1604	6	ST4084-60 M4	TX-15
HESC-3216150	32	32	150	60	70			10		
HESC-4016135	40	32	135	60	56	3		12	ST4101-60W M4	
HESC-4016160	40	32	160	70	70			15		
HESC-5016170	50	42	170	80	70			15		
HESC-501650.8220	50	50.8	220	80	112			24		

HELICAL CUTTER

► HMCC-BT

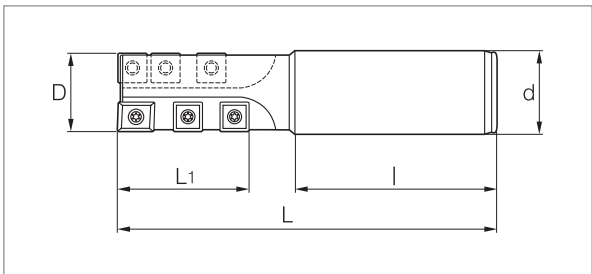


- MODULAR SHANK TYPE

INSERT TYPE → **WALTER, TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)					NO.OF INSERT		NO.OF INSERT					
	D	L	L ₁										
HMCC-BT5050185	50	185	110	4	APMT 1504T-WT	2	SPMT1204	22	FPB 5024	ST511-43 M5	TX-20		
HMCC-BT5050205	50	205	130					26					
HMCC-BT5050235	50	235	160					32					
HMCC-BT5050255	50	255	180					36					
HMCC-BT5063165	63	169	90		ZPMT 1504-WM			18	FPB 6334				
HMCC-BT5063195	63	195	120					24					
HMCC-BT5063225	63	225	150					30					
HMCC-BT5063265	63	265	190					38					
HMCC-BT5063390	63	390	220					44					

► HNCC



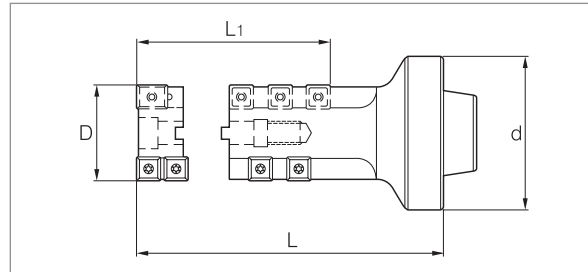
- STRAIGHT SHANK TYPE

INSERT TYPE → **WALTER, TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)					NO.OF INSERT					
	D	d	L	I	L ₁						
HNCC-2025110	20	25	110	65	32	1 / 6	2	P27215-00	P28415-00 (SP..0603)	ST2553-55 M2.5	TX-8
HNCC-2525120	25	25	120	75	32	1 / 6					
HNCC-3232150	32	32	150	75	42	1 / 5	4	P27215-3	P28415-0 (SD..0903)	ST408-43 M4	TX-15
HNCC-4032155	40	32	155	75	50	2 / 12					
HNCC-4042165	40	42	165	85	50	2 / 12					
HNCC-5042170	50	42	170	85	56	2 / 10					
HNCC-5050.8200	50	50.8	200	85	76	2 / 14		ZPMT1504-WM	(SP..1204)	ST511-43 M5	TX-20

HELICAL CUTTER

► HMCC-MD

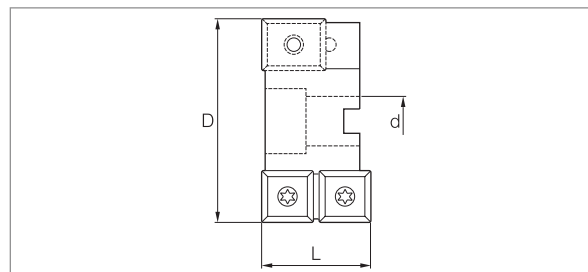


- MODULAR SHANK TYPE

INSERT TYPE → **WALTER, TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT			
	D	d	L	L _i								
HMCC-5080135	50	80	135	76	4	APMT 1504T-WT ZPMT 1504-WM	2	SPMT1204	14	FPB 5024	ST511-43 M5	TX-20
HMCC-5080155	50	80	155	96					18			
HMCC-5080185	50	80	185	126					24			
HMCC-5080205	50	80	205	146					28			
HMCC-6380135	63	80	135	86					16	FPB 6334		
HMCC-6380165	63	80	165	114					22			
HMCC-6380195	63	80	195	146					28			
HMCC-6380235	63	80	235	186					36			
HMCC-8080155	80	80	155	106	6	3	30	FPB8034				

► FPCC



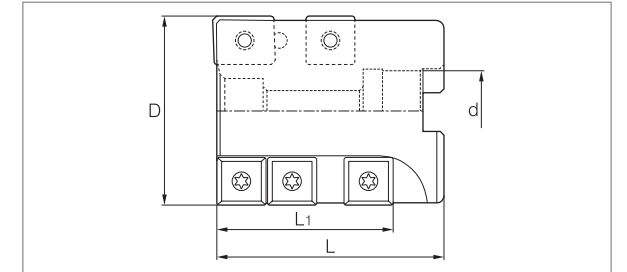
- BORE MOUNTED TYPE

INSERT TYPE → **WALTER, TAEGU-TEC, WIDIN**

Part No.	Dimensions(mm)					NO.OF INSERT		NO.OF INSERT			
	D	d	L								
FPCC-5024	50	12.5	24	4	APMT 1504T-WT ZPMT 1504-WM	2	SPMT1204	4	FPB5024	ST511-43 M5	TX-20
FPCC-5055	50	12.5	50					10			
FPCC-5424	54	12.5	24					4			
FPCC-5455	54	12.5	50					10			
FPCC-6334	63	16.5	34					6			
FPCC-6365	63	16.5	65					12			
FPCC-8034	80	18.0	34	6		3		9	FPB8034		

SHELL MILL CUTTER

► SMCC

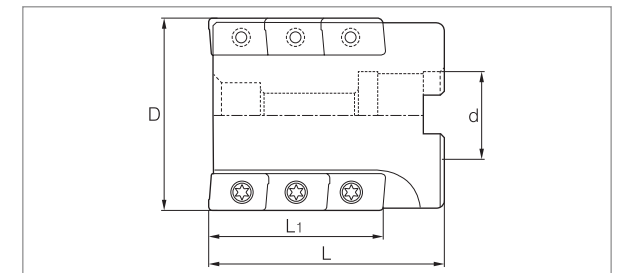


- BORE MOUNTED TYPE

INSERT TYPE → **WALTER, TAEGU-TEC, KORLOY, WIDIN**

Part No.	Dimensions(mm)					NO.OF INSERT				
	D	d	L	L ₁						
SMCC-5022060	50	22	60	34	4	2/6	APMT1504T-WT ZPMT1504-WM	SP..1204	ST511-43 M5	TX-20
SMCC-6327060	63	27	60	34	4	2/6				
SMCC-8032080	80	32	80	67	6	3/18				

► SECC



- BORE MOUNTED TYPE

INSERT TYPE → **TAEGU-TEC, SECO, KORLOY, WIDIN**

Part No.	Dimensions(mm)					NO.OF INSERT			
	D	d	L	L ₁					
SECC-502255	50	22	55	42	3	9	AP..1604	ST4101-60W M4	TX-15
SECC-632763	63	27	63	42	4	12			
SECC-803285	80	32	85	70	5	25			

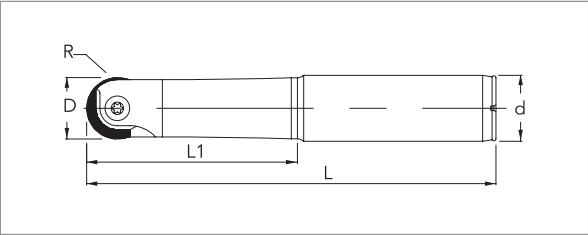
- BORE MOUNTED TYPE

INSERT TYPE → **WALTER**

Part No.	Dimensions(mm)					NO.OF INSERT			
	D	d	L	L ₁					
SECC-502255-W	50	22	55	42	3	9	ADMT160608R	ST4101-60W M4	TX-15
SECC-632763-W	63	27	63	42	4	12			
SECC-803285-W	80	32	85	70	5	25			

BALL CUTTER FINISHING

► BFCC

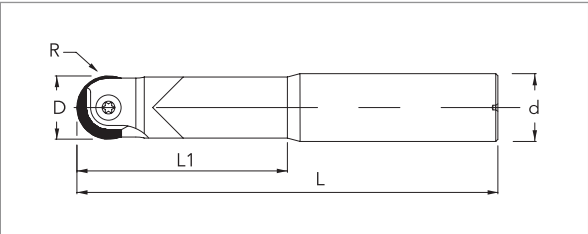


- STRAIGHT SHANK TYPE

INSERT TYPE → **WIDIN, WALTER**

Part No.	Dimensions(mm)							
	R	D	d	L	L ₁			
BFCC-R0612150	6	12	12	150	35	P3204-D120 SP3204-D120	FS-391	TX-15
BFCC-R0612180	6	12	12	180	35			
BFCC-R0816160	8	16	16	160	50	P3204-D150 SP3204-D150	FS-392	TX-15
BFCC-R0816200	8	16	16	200	50			
BFCC-R1020200	10	20	20	200	70	P3204-D200 SP3204-D200	FS-393	TX-20
BFCC-R1020250	10	20	20	250	70			
BFCC-R1225200	12.5	25	25	200	80	P3204-D250 SP3204-D250	FS-394	TX-20
BFCC-R1225250	12.5	25	25	250	80			
BFCC-R1532200	15	30	32	200	100	P3204-D300 SP3204-D300	FS-395	TX-30
BFCC-R1532250	15	30	32	250	100			
BFCC-R1532300	15	30	32	300	100			

► C-BFCC



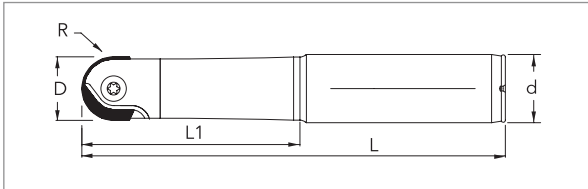
- CARBIDE SHANK TYPE

INSERT TYPE → **WIDIN, WALTER**

Part No.	Dimensions(mm)							
	R	D	d	L	L ₁			
C-BFCC-R0510150	5	10	10	150	25	P3204-D100	FS-90	TX-15
C-BFCC-R0612165	6	12	12	165	35	P3204-0120	FS-391	
C-BFCC-R0612200	6	12	12	200	35	SP3204-D120	FS-392	
C-BFCC-R0816200	8	16	16	200	50	P3204-D160		
C-BFCC-R0816250	8	16	16	250	50	SP3204-D160		
C-BFCC-R1020220	10	20	20	220	70	P3204-D200	FS-393	TX-20
C-BFCC-R1020300	10	20	20	300	70	SP3204-D200	FS-394	
C-BFCC-R1225200	12.5	25	25	200	80	P3204-D250 SP3204-D250		
C-BFCC-R1225250	12.5	25	25	250	80			
C-BFCC-R1225300	12.5	25	25	300	80			
C-BFCC-R1532250	15	30	32	250	100	P3204-D300	FS-395	TX-30
C-BFCC-R1532300	15	30	32	300	100	SP3204-D300		

BALL CUTTER FINISHING

► ABPF

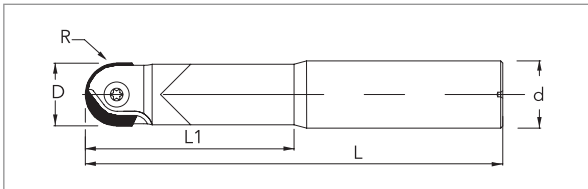


- STRAIGHT STEEL SHANK

INSERT TYPE → **HITACHI, WIDIN**

Part No.	Dimensions(mm)							
	R	D	d	L	L ₁			
ABPF-R0816160	8	16	16	160	45	ZPSW 160	TSB-5844	T-20
ABPF-R0816200	8	16	16	200	45			
ABPF-R1020200	10	20	20	200	70	ZPSW 200	TSB-5845	T-25
ABPF-R1020250	10	20	20	250	70			
ABPF-R1225200	12.5	25	25	200	80	ZPSW 250	TSB-5846	T-30
ABPF-R1225250	12.5	25	25	250	80			
ABPF-R1532200	15	30	32	200	100	ZPSW 300	TSB-5847	
ABPF-R1532250	15	30	32	250	100			
ABPF-R1532300	15	30	32	300	100			
ABPF-R1532350	15	30	32	350	100			

► C-ABPF



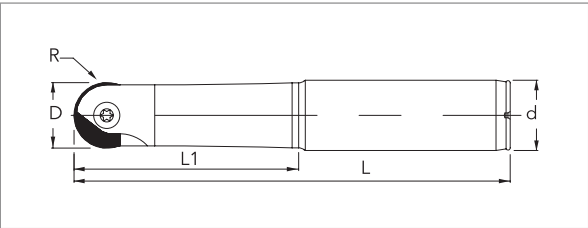
- CARBIDE SHANK TYPE

INSERT TYPE → **HITACHI, WIDIN**

Part No.	Dimensions(mm)								
	R	D	d	L	L ₁				
C-ABPF-08S08x25x135L	4	08	08	135	25	ZPSW 080	TSB-5841	TX-10	
C-ABPF-10S10x25x150L	5	10	10	150	25				
C-ABPF-10S10x25x180L	5	10	10	180	25				
C-ABPF-10S10x25x200L	5	10	10	200	25				
C-ABPF-12S12x35x165L	6	12	12	165	35	ZPSW 120	TSB-5843	TX-20	
C-ABPF-12S12x35x200L	6	12	12	200	35				
C-ABPF-16S16x50x200L	8	16	16	200	50	ZPSW 160	TSB-5844		TX-25
C-ABPF-16S16x50x250L	8	16	16	250	50				
C-ABPF-20S20x70X220L	10	20	20	220	70	ZPSW 200	TSB-5845	TX-25	
C-ABPF-20S20x70x250L	10	20	20	250	70				
C-ABPF-20S20x70x300L	10	20	20	300	70				
C-ABPF-25S25x100x200L	12.5	25	25	200	100	ZPSW 250	TSB-5846	TX-30	
C-ABPF-25S25x100x250L	12.5	25	25	250	100				
C-ABPF-25S25x100x300L	12.5	25	25	300	100				
C-ABPF-30S32x100x250L	15	30	32	250	100	ZPSW 300	TSB-5847		TX-30
C-ABPF-30S32x100x300L	15	30	32	300	100				
C-ABPF-30S32x100x350L	15	30	32	350	100				
C-ABPF-30S32x100x400L	15	30	32	400	100				

BALL CUTTER FINISHING

► SRFH

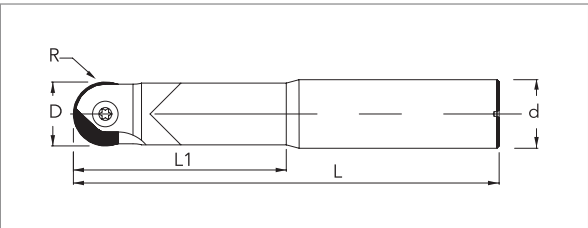


- STRAIGHT SHANK TYPE

INSERT TYPE → DIJET, MITSUBISHI, KORLOY, WIDIN

Part No.	Dimensions(mm)							
	D	R	d	L	L ₁			
SRFH-R0816160	16	8	16	160	45	SRFT 160 LBH 160~170	FSW-4013	TX-15
SRFH-R0816200	16	8	16	200	45			
SRFH-R1020200	20	10	20	200	70	SRFT 200 LBH 200~210	FSW-5016	TX-20
SRFH-R1020250	20	10	20	250	70			
SRFH-R1225200	25	12.5	25	200	100	SRFT 250 LBH 250~260	FSW-6020	TX-30
SRFH-R1225250	25	12.5	25	250	100			
SRFH-R1532200	30	15	32	200	100	SRFT 300 LBH 300~320	FSW-8025	TX-40
SRFH-R1532250	30	15	32	250	100			
SRFH-R1532300	30	15	32	300	100			

► C-SRFH



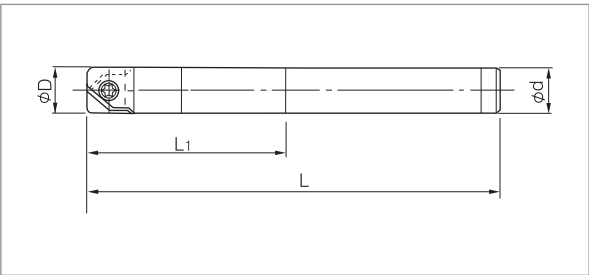
- CARBIDE SHANK TYPE

INSERT TYPE → DIJET, MITSUBISHI, KORLOY, WIDIN

Part No.	Dimensions(mm)							
	R	D	d	L	L ₁			
C-SRFH-R0408135	4	08	08	135	25	SRFT 080 LBH 080	FSW-2506	TX-07
C-SRFH-R0510150	5	10	10	150	25			
C-SRFH-R0612165	6	12	12	165	35	SRFT 100 LBH 100	FSW-3007	TX-08
C-SRFH-R0612200	6	12	12	200	35			
C-SRFH-R0816200	8	16	16	200	50	SRFT 120 LBH 120~130	FSW-3509	TX-10
C-SRFH-R0816250	8	16	16	250	50			
C-SRFH-R1020220	10	20	20	220	70	SRFT 160 LBH 160~170	FSW-4013	TX-15
C-SRFH-R1020250	10	20	20	250	70			
C-SRFH-R1020300	10	20	20	300	70	SRFT 200 LBH 200~210	FSW-5016	TX-20
C-SRFH-R1225200	12.5	25	25	200	100			
C-SRFH-R1225250	12.5	25	25	250	100	SRFT 250 LBH 250~260	FSW-6020	TX-30
C-SRFH-R1225300	12.5	25	25	300	100			
C-SRFH-R1532250	15	30	32	250	100	SRFT 300 LBH 300~320	FSW-8025	TX-40
C-SRFH-R1532300	15	30	32	300	100			

BALL CUTTER FINISHING

► C-RMMC



- CARBIDE SHANK TYPE

INSERT TYPE → DIJET, MITSUBISHI, WIDIN

Part No.	Dimensions(mm)						
	D	d	L	L ₁			
C-RMMC-1212165	12	12	165	35	RNM-120 LRH-120~130	FSW-3509	TX-10
C-RMMC-1212200	12	12	200	35			
C-RMMC-1616160	16	16	160	40	RNM-160 LRH-160~170	FSW-4013	TX-15
C-RMMC-1616200	16	16	200	40			
C-RMMC-2020200	20	20	200	45	RNM-200 LRH-200~210	FSW-5016	TX-20
C-RMMC-2020250	20	20	250	45			
C-RMMC-2525200	25	25	200	50	RNM-250 LRH-250~260	FSW-6020	TX-30
C-RMMC-2525250	25	25	250	50			
C-RMMC-3032200	30	32	200	50	RNM-300 LRH-300	FSW-8025	TX-40
C-RMMC-3032250	30	32	250	50			
C-RMMC-3032300	30	32	300	50	RNM-320 LRH-320~330	FSW-8025	TX-40
C-RMMC-3232200	32	32	200	50			
C-RMMC-3232250	32	32	250	50			
C-RMMC-3232300	32	32	300	50			

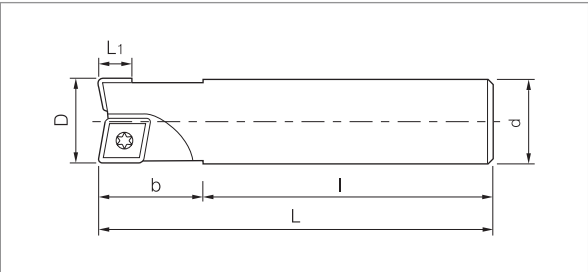
- STRAIGHT SHANK TYPE

INSERT TYPE → DIJET, MITSUBISHI, WIDIN

Part No.	Dimensions(mm)						
	D	d	L	L ₁			
RMMC-1212165	12	12	150	35	RNM-120 LRH-120~130	FSW-3509	TX-10
RMMC-1212200	12	12	180	35			
RMMC-1616160	16	16	160	40	RNM-160 LRH-160~170	FSW-4013	TX-15
RMMC-1616200	16	16	200	40			
RMMC-2020200	20	20	200	45	RNM-200 LRH-200~210	FSW-5016	TX-20
RMMC-2020250	20	20	250	45			
RMMC-2525200	25	25	200	50	RNM-250 LRH-250~260	FSW-6020	TX-30
RMMC-2525250	25	25	250	50			
RMMC-3032200	30	32	200	50	RNM-300 LRH-300	FSW-8025	TX-40
RMMC-3032250	30	32	250	50			
RMMC-3032300	30	32	300	50	RNM-320 LRH-320~330	FSW-8025	TX-40
RMMC-3232200	32	32	200	50			
RMMC-3232250	32	32	250	50			
RMMC-3232300	32	32	300	50			

MULTI MILL CUTTER

▶ AJUL

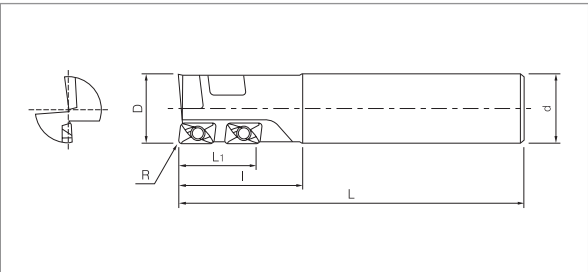


- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI

ITEM CODE	NO.OF INSERTS	Dimensions(mm)						INSERTS
		D	L	d	L ₁	b	I	
AJUL-1616175	2	16	175	16	6	40	135	CCMT060204, CPMT080204Z
AJUL-2020185	2	20	185	20	6	50	135	CPMT060204, CPMT090204Z
AJUL-2525220	2	25	220	25	9	70	150	CPMT090308, CPMT120308Z
AJUL-3232230	2	32	230	32	12	80	150	CPMT120408, 120430 CPMT160408, 160430Z
AJUL-4032240	2	40	240	32	15	50	190	CPMT160408Z, 160430Z CPMT190408Z, 190430Z
AJUL-5042250	2(3)	50	250	42	12	50	200	CPMT090308 CPMT120408, 120430 CPMT160408Z, 160430Z

▶ AJSL



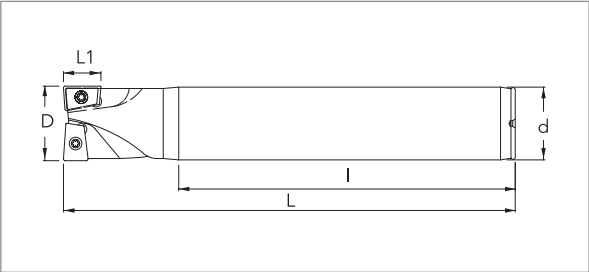
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI

ITEM CODE		NO.OF INSERTS		Dimensions(mm)					INSERTS USED NOTE	
		END	PERIPHERY	D	L	L ₁	I	d	ON END	ON PERIPHERY
Long Shank	AJSL-16R 175	1	3	16	175	16	50	16	ADMT080308L	APMT090208R
	AJSL-17R 175			17	175	16	30	16		
	AJSL-20R 185			20	185	20	60	20	ADMT1003○○L	ACMT1003○○R
	AJSL-21R 185			21	185	20	35	20		
	AJSL-25R 220			25	220	25	75	25	ADMT12T3 ○○L	APMT12T3○○R
	AJSL-26R 220			26	220	25	40	25		
	AJSL-32R 230			32	230	32	90	32	APMT1604 ○○L	APMT1504○○R
	AJSL-33R 230			33	230	32	50	32		
	AJSL-35R 230			35	230	35	50	32	APMT1704 ○○L	
	AJSL-40R 240	4	4	40	240	40	55	32	APMT1905 ○○L	
	AJSL-50R 250	6	6	50	250	50	70	42	APMT2505 ○○L	

ENDMILL CUTTER

▶ AQXR-2F



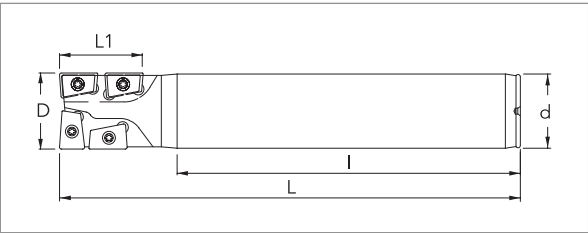
- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)					2	QOMT0830R	ST2043-60H	TX-6
	D	d	L ₁	L	I				
AQXR-1616200-2F	16	16	7.4	200	150	2	QOMT1035R	ST2553-55 M2.5	TX-8
AQXR-1716200-2F	17	16	7.4	200	170				
AQXR-2020200-2F	20	20	9.2	200	145				
AQXR-2120200-2F	21	20	9.2	200	160				
AQXR-2120250-2F	21	20	9.2	250	210		QOMT1342R	ST3072-60H M3	TX-15
AQXR-2120300-2F	21	20	9.2	300	260				
AQXR-2525200-2F	25	25	11.5	200	135				
AQXR-2525250-2F	25	25	11.5	250	185				
AQXR-2625200-2F	26	25	11.5	200	160				
AQXR-2625250-2F	26	25	11.5	250	210				
AQXR-2625300-2F	26	25	11.5	300	260	2	QOMT1651R	ST4084-60 M4	TX-25
AQXR-3232200-2F	32	32	14.5	200	100				
AQXR-3232250-2F	32	32	14.5	250	160				
AQXR-3332200-2F	33	32	14.5	200	150				
AQXR-3332250-2F	33	32	14.5	250	200		QOMT2062R	ST511-60H	TX-25
AQXR-3332300-2F	33	32	14.5	300	250				
AQXR-4032200-2F	40	32	18	200	130				
AQXR-4032250-2F	40	32	18	250	180				

ENDMILL CUTTER

▶ AQXR-4F

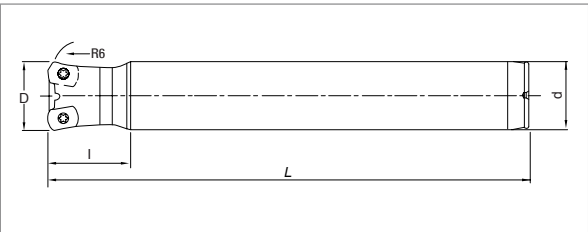
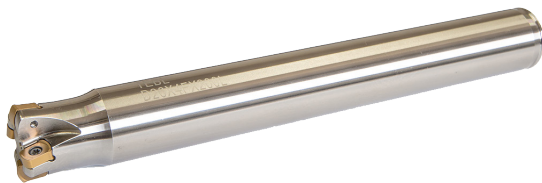


- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)											
	D	d	L ₁	L	l							
AQXR-1616200-4F	16	16	17.6	200	150	4	QOMT0830R	ST2043-60H M2	TX-6			
AQXR-1716200-4F	17	16	17.6	200	170							
AQXR-2020200-4F	20	20	22	200	145		QOMT1035R	ST2553-55 M2.5	TX-8			
AQXR-2120200-4F	21	20	22	200	160							
AQXR-2525200-4F	25	25	27.5	200	135		QOMT1342R	ST3072-60H M3				
AQXR-2525250-4F	25	25	27.5	250	185							
AQXR-2625200-4F	26	25	27.5	200	160							
AQXR-2625250-4F	26	25	27.5	250	210							
AQXR-3232200-4F	32	32	35.2	200	110		QOMT1651R	ST4084-60 M4	TX-15			
AQXR-3232250-4F	32	32	35.2	250	160							
AQXR-3332200-4F	33	32	35.2	200	150							
AQXR-3332250-4F	33	32	35.2	250	200							
AQXR-4032200-4F	40	32	44	200	130					QOMT2062R	ST511-60H	TX-25
AQXR-4032250-4F	40	32	44	250	180							

▶ TEBL



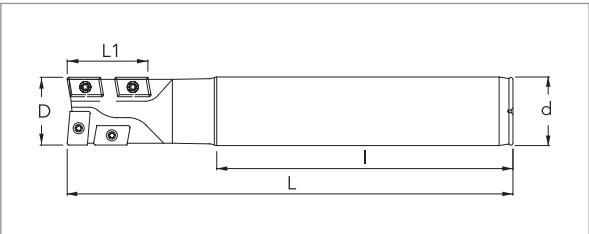
- STRAIGHT SHANK TYPE

INSERT TYPE → TAEГУ-TEC

Part No.	Dimensions(mm)								
	D	d	L	I					
TEBL-D16x2Fx150L	16	16	150	40	2	BLMP 0603R		ST25060-60S M2.5	TX-8
TEBL-D16x2Fx200L	16	16	200	40	2				
TEBL-D17x2Fx150L	17	16	150	30	2				
TEBL-D17x2Fx200L	17	16	200	30	2				
TEBL-D20x3Fx150L	20	20	150	40	3				
TEBL-D20x3Fx200L	20	20	200	40	3				
TEBL-D21x3Fx150L	21	20	150	30	3				
TEBL-D21x3Fx200L	21	20	200	30	3				
TEBL-D21x3Fx250L	21	20	250	30	3				
TEBL-D25x4Fx200L	25	25	200	40	4				
TEBL-D25x4Fx250L	25	25	250	40	4				
TEBL-D26x3Fx200L	26	25	200	30	3				
TEBL-D26x3Fx250L	26	25	250	30	3				
TEBL-D26x4Fx200L	26	25	200	30	4				
TEBL-D26x4Fx250L	26	25	250	30	4				
TEBL-D32x5Fx200L	32	32	200	40	5				
TEBL-D32x5Fx250L	32	32	250	40	5				
TEBL-D33x4Fx200L	33	32	200	30	4				
TEBL-D33x4Fx250L	33	32	250	30	4				
TEBL-D33x5Fx200L	33	32	200	30	5				
TEBL-D33x5Fx250L	33	32	250	30	5				

ENDMILL CUTTER

▶ SECL

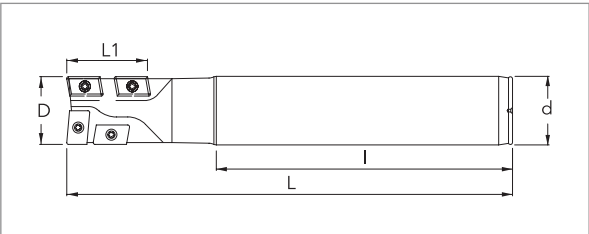


- STRAIGHT SHANK TYPE

INSERT TYPE → DIJET

Part No.	Dimensions(mm)					NO.OF INSERT	For use of an external diameter 	NO.OF INSERT	For use of an internal diameter 		
	D	d	L	L ₁	I						
SECL-1616200	16	16	200	16	150	1	ZDMT 08T208L	3	ZPMT 09T208R	ST22045-55 M2.2	TX-6
SECL-1716200	17	16	200	16	160		ZDMT 100308L		ZCMT 100308R	ST2553-55 M2.5	TX-8
SECL-2020200	20	20	200	21	140		ZDMT 13T308L		ZPMT 13T308R	ST3070-60H M3	
SECL-2120200	21	20	200	21	160						
SECL-2525200	25	25	200	27	125						
SECL-2525250	25	25	250	27	175		ZDMT 160408L		ZPMT 160408R	ST4084-60 M4	
SECL-2625200	26	25	200	27	160						
SECL-2625250	26	25	250	27	210						
SECL-3232200	32	32	200	35	110						
SECL-3232250	32	32	250	35	160						
SECL-3232300	32	32	300	35	210						
SECL-3332200	33	32	200	35	150						
SECL-3332250	33	32	250	35	200						
SECL-3332300	33	32	300	35	250						

▶ AHJL



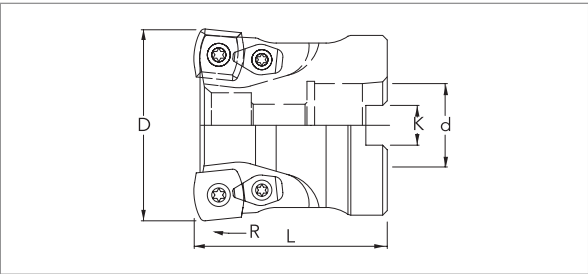
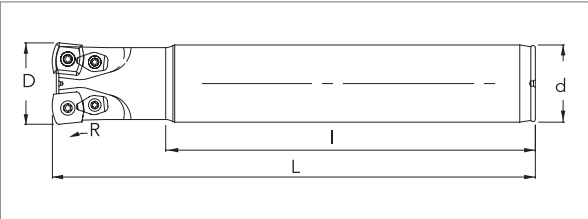
- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI

Part No.	Dimensions(mm)								
	D	d	L	L ₁	I				
AHJL-16R 175-4F	16	16	175	19	130	4	JDMT080308L	TX-6	ST2043-60H M2
AHJL-17R 175-4F	17	16	175	19	138		JDMT090308R		
AHJL-20R 185-4F	20	20	185	23	135		JDMT100308L	TX-8	ST2553-55 M2.5
AHJL-21R 185-4F	21	20	185	23	145		JDMT100308R		
AHJL-25R 220-4F	25	25	220	29	165		JDMT12T308L	TX-8	ST3072-60H M3
AHJL-26R 220-4F	26	25	220	29	170		JDMT12T308R		
AHJL-32R 230-4F	32	32	230	34	160		JDMT160508L	TX-15	ST4084-60 M4
AHJL-33R 230-4F	33	32	230	34	175		JDMT150508R		

ENDMILL CUTTER

ASRL



- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)									
	D	L	d	R	I					
ASRL-2020200	20	200	20	10	150	2	EP.W0803TN-10	ST3509-55 M3.5	TX-15	CL2C 2CLCN
ASRL-2120200	21	200	20	10	150	2				
ASRL-2525200	25	200	25	10	140	2				
ASRL-2525250	25	250	25	10	190	2	ED.W10T3TN-10	ST408-43 M4	TX-15	CL2C 2CLCN
ASRL-2625200	26	200	25	10	160	2				
ASRL-2625250	26	250	25	10	210	2				
ASRL-3232200	32	200	32	15(10)	130	2	ED.W13T4TN-15(10)	ST512-63P M5	TX-20	3CLCN
ASRL-3232250	32	250	32	15(10)	180	2				
ASRL-3332200	33	200	32	15(10)	150	2				
ASRL-3332250	33	250	32	15(10)	200	2				
ASRL-3532200	35	200	32	15(10)	150	2				
ASRL-3532250	35	250	32	15(10)	200	2				
ASRL-4032200	40	200	32	15(10)	150	3	ED.W15T4TN-15	555-141 M5 ST512-63P	TX-20	3CLCN
ASRL-4032250	40	250	32	15(10)	200	3				
ASRL-5042200	50	200	42	15	150	3				
ASRL-5042250	50	250	42	15	200	3				

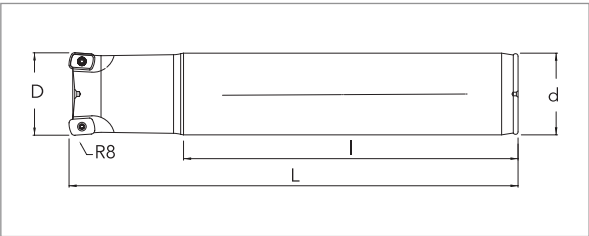
- BORE MOUNTED TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)									
	D	L	d	K	R					
ASRL-505022	50	50	22	10.4	15(10)	3	ED.W13T4TN-15	555-141 M5 ST512-63P	TX-20	3CLCN
ASRL-605022	60	50	22	10.4	15(10)	4				
ASRL-635022	63	50	22	10.4	15(10)	4	ED.W15T4TN-15			
ASRL-807027	80	70	27	12.7	15(10)	5				
ASRL-1007031.75	100	70	31.75	12.7	15(10)	6				

ENDMILL CUTTER

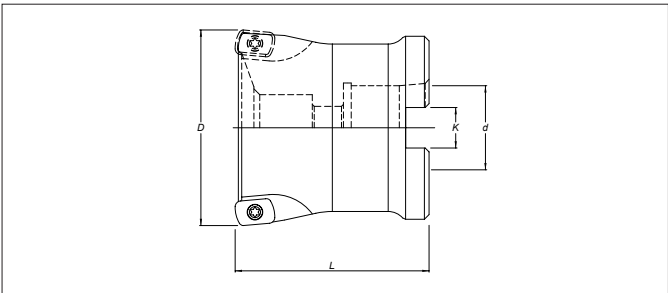
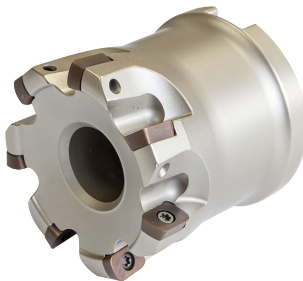
ASRL-Pico



- STRAIGHT SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)							
	D	d	L	I				
ASRL-1616160-2F	16	16	160	120	2	EPNW0603TN-8	ST2553-55 M2.5	TX-8
ASRL-1716160-2F	17	16	160	130	2			
ASRL-1716200-2F	17	16	200	170	2			
ASRL-2020200-3F	20	20	200	160	3			
ASRL-2120200-3F	21	20	200	170	3			
ASRL-2525200-4F	25	25	200	150	4			
ASRL-2525250-4F	25	25	250	200	4			
ASRL-2625200-4F	26	25	200	160	4			
ASRL-2625250-4F	26	25	250	210	4			
ASRL-3232200-5F	32	32	200	135	5			
ASRL-3232250-5F	32	32	250	185	5			
ASRL-3332200-5F	33	32	200	160	5			
ASRL-3332250-5F	32	32	250	210	5			



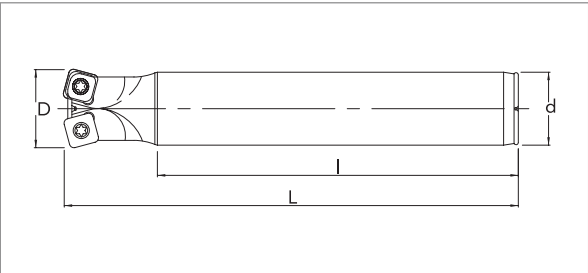
- BORE MOUNTED TYPE

INSERT TYPE → KORLOY, WIDIN

Part No.	Dimensions(mm)							
	D	d	L	K				
ASRL-D42x16x6F	42	16	40	10.4	6	EPNW0603TN-8	ST2553-55 M2.5	TX-8
ASRL-D50x22x7F	50	22	50	10.4	7			
ASRL-D52x22x7F	52	22	50	10.4	7			
ASRL-D63x27x8F	63	27	50	12.7	8			
ASRL-D66x27x8F	66	27	50	12.7	8			
ASRL-D80x27x10F	80	27	65	12.7	10			

ENDMILL CUTTER

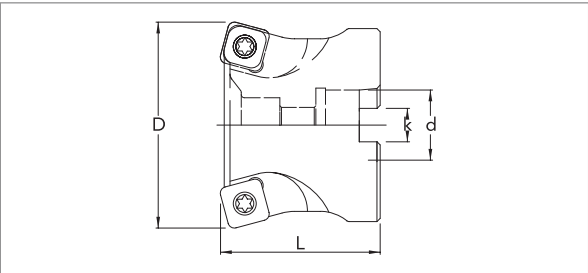
► BSR



- STRAIGHT SHANK TYPE

INSERT TYPE → KORLOY, WIDIN

Part No.	Dimensions(mm)							
	D	d	L	I				
BSR-2020200	20	20	200	150	2	SPCW 070312R	ST307-55 M3	TX-08
BSR-2020250	20	20	250	200	2			
BSR-2120200	21	20	200	160	2			
BSR-2120250	21	20	250	210	2			
BSR-2525200	25	25	200	140	2	SDCW 090412R	ST35084-60 M3.5	TX-15
BSR-2525250	25	25	250	190	2			
BSR-2525300	25	25	300	240	2			
BSR-2625200	26	25	200	160	2			
BSR-2625250	26	25	250	210	2			
BSR-2625300	26	25	300	260	2			
BSR-3232200	32	32	200	130	2	SBCW 130723SR	ST511-60H M5	TX-20
BSR-3232250	32	32	250	180	2			
BSR-3232300	32	32	300	230	2			
BSR-3332200	33	32	200	160	2			
BSR-3332250	33	32	250	210	2			
BSR-3332300	33	32	300	260	2			
BSR-4032200	40	32	200	160	3			
BSR-4032250	40	32	250	210	3			
BSR-4032300	40	32	300	260	3			



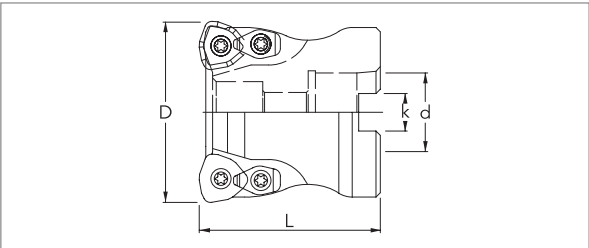
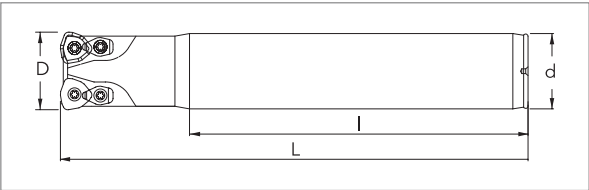
- BORE MOUNTED TYPE

INSERT TYPE → KORLOY, WIDIN

Part No.	Dimensions(mm)							
	D	d	L	K				
BSR-D50×22×3F	50	22	50	10.4	3	SBCW 130723SR	ST511-60H M5	TX-20
BSR-D63×22×4F	63	22	50	10.4	4			
BSR-D80×27×5F	80	27	65	12.4	5			

ENDMILL CUTTER

► AJXC



- STRAIGHT SHANK TYPE

INSERT TYPE → MITSUBISHI, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	I					
AJXC-1616180	16	16	180	145	2	JOMW06T	ST2553-55 M2.5		TX-8
AJXC-1716180	17	16	180	145					
AJXC-2020200	20	20	200	150		JOMW080	ST3072-60H M3		TX-8
AJXC-2120200	21	20	200	155					
AJXC-2120250	21	20	250	205					
AJXC-2525200	25	25	200	145		JDMW09T	ST3509-55 M3.5	CL2C 2CLCN	TX-15
AJXC-2525250	25	25	250	195					
AJXC-2625200	26	25	200	155					
AJXC-2625250	26	25	250	205					
AJXC-3232200	32	32	200	145		JDMW 120420	ST4084-60 M4		
AJXC-3232250	32	32	250	195					
AJXC-3232300	32	32	300	245					
AJXC-3332200	33	32	200	150					
AJXC-3332250	33	32	250	200					
AJXC-3332300	33	32	300	250					

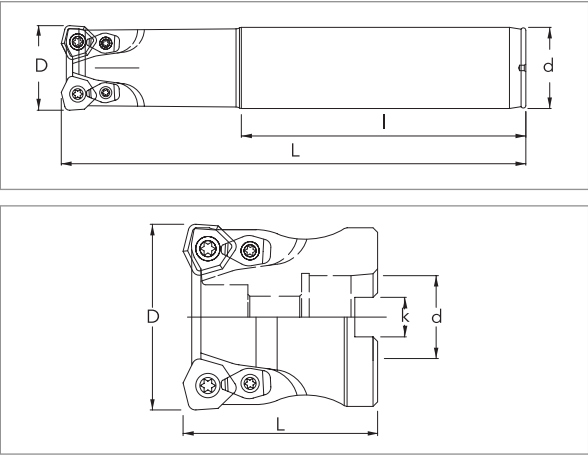
- BORE MOUNTED TYPE

INSERT TYPE → MITSUBISHI, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	K					
AJXC-3050-22	50	22	50	10.4	3	JDMW 120420	ST4101-60W M4	CL2C 2CLCN	TX-15
AJXC-4050-22	50	22	50	10.4	4				
AJXC-3063-22	63	22	50	10.4	3	JDMW 140520	ST511-60H M5	3CLCN	TX-25
AJXC-4063-22	63	22	50	10.4	4				
AJXC-5080-32	80	32	70	14.4	5				
AJXC-6080-32	80	32	70	14.4	6				

ENDMILL CUTTER

SKSC



- STRAIGHT SHANK TYPE

INSERT TYPE → DIJET, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	I					
SKSC-1616180	16	16	180	145	2	WDMW04	ST2553-55 M2.5		TX-8
SKSC-1716180	17	16	180	145	2				
SKSC-2020200	20	20	200	150	2				
SKSC-2120200	21	20	200	155	2	WDMW 05	ST3072-60H M3		TX-8
SKSC-2120250	21	20	250	205	2				
SKSC-2525200	25	25	200	140	2	WDMW 06	ST408-43 M4	CL2C 2CLCN	TX-15
SKSC-2525250	25	25	250	190	2				
SKSC-2625200	26	25	200	150	2				
SKSC-2625250	26	25	250	205	2				
SKSC-3232200	32	32	200	130	2	WDMW 08	ST4510-60 M4.5	3CLCN	TX-20
SKSC-3232250	32	32	250	180	2				
SKSC-3232300	32	32	300	230	2				
SKSC-3332200	33	32	200	150	2				
SKSC-3332250	33	32	250	200	2				
SKSC-3332300	33	32	300	250	2				

SKSS

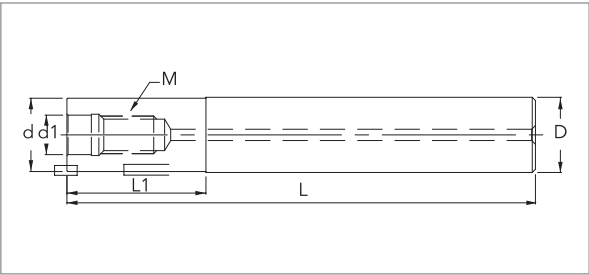
- BORE MOUNTED TYPE

INSERT TYPE → DIJET, WIDIN

Part No.	Dimensions(mm)								
	D	d	L	K					
SKSS-3050-22	50	22	50	10.4	3	WDMW 08	ST4510-60 M4.5	3CLCN	TX-20
SKSS-4050-22	50	22	50	10.4	4				
SKSS-3063-27	63	27	50	12.4	3				
SKSS-4063-27	63	27	50	12.4	4				
SKSS-5080-32	80	32	70	14.4	5				
SKSS-6080-32	80	32	70	14.4	6				

MODULAR CUTTTT SHANK

IHCC



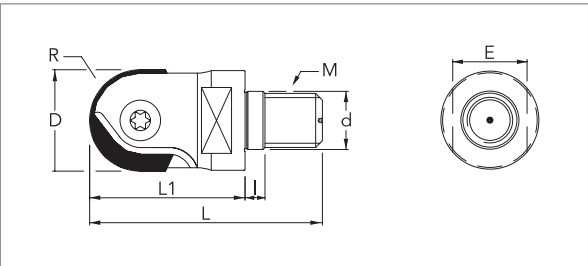
- M-Steel Shank Type

- C-carbide Shank Type

Part No.	Dimensions(mm)						SHANK	APPLICABLE HEAD
	D	d	L	L ₁	d ₁	M		
M-IHCC-16172(200)	16	15.5	172	22(50)	8.5	8	STEEL	M-0000 D16 D17
M-IHCC-20187(220)	20	19.5	187	37(70)	10.5	10		M-0000 D20 D21
M-IHCC-20217(250)	20	19.5	217	37(70)	10.5	10		M-0000 D25 D26
M-IHCC-25212(250)	25	24.5	212	62(100)	12.5	12		M-0000 D30 D32 D33
M-IHCC-25262(300)	25	24.5	262	62(100)	12.5	12		
M-IHCC-30155(200)	32	29.5	155	55(100)	17	16		
M-IHCC-30205(220)	32	29.5	205	55(100)	17	16	CARBIDE	M-0000 D16 D17
M-IHCC-30255(300)	32	29.5	255	55(200)	17	16		M-0000 D20 D21
C-IHCC-16172(200)	16	15.5	172	22(50)	8.5	8		M-0000 D25 D26
C-IHCC-20187(220)	20	19.5	187	37(70)	10.5	10		M-0000 D30 D32 D33
C-IHCC-20217(250)	20	19.5	217	37(70)	10.5	10		
C-IHCC-25212(250)	25	24.5	212	62(100)	12.5	12		
C-IHCC-25262(300)	25	24.5	262	62(100)	12.5	12		
C-IHCC-30155(200)	32	29.5	155	55(100)	17	16		
C-IHCC-30205(250)	32	29.5	205	55(100)	17	16		
C-IHCC-30255(300)	32	29.5	255	55(100)	17	16		

BALL CUTTER

► M-ABPF

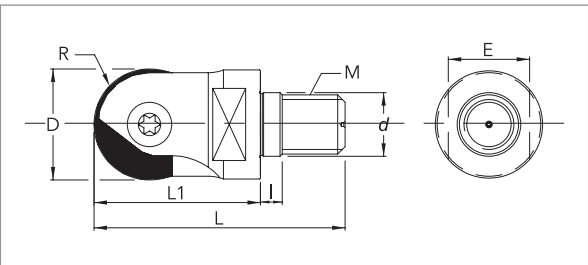


- MODULAR SHANK TYPE

INSERT TYPE → WIDIN, HITACHI

Part No.	Dimensions(mm)										
	R	D	d	L	L1	I	M	E			
M-ABPF-R08xM8	8	16	8.5	45	28	6	8	12	ZPSW 160.170	TSB-5844	TX-20
M-ABPF-R10xM10	10	20	10.5	52	33	6	10	15	ZPSW 200.210	TSB-5845	TX-25
M-ABPF-R12.5xM12	12.5	25	12.5	60	38	6	12	19	ZPSW 250.260	TSB-5846	TX-30
M-ABPF-R15xM16	15	30	17	68	45	6	12	22	ZPSW 300.320	TSB-5847	TX-30

► M-SRFH



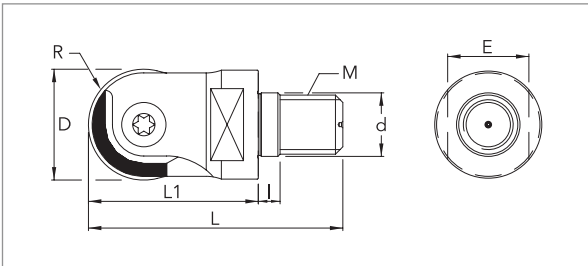
- MODULAR SHANK TYPE

INSERT TYPE → DIJET, MITSUBISHI, KORLOY, WIDIN

Part No.	Dimensions(mm)										
	R	D	d	L	L1	I	M	E			
M-SRFH-R08xM8	8	16	8.5	45	28	6	8	12	SRFT 160 / LBH 160.170	FSW-4013	TX-15
M-SRFH-R10xM10	10	20	10.5	52	33	6	10	15	SRFT 200 / LBH 200.210	FSW-5016	TX-20
M-SRFH-R12.5xM12	12.5	25	12.5	60	38	6	12	19	SRFT 250 / LBH 250.260	FSW-6062	TX-30
M-SRFH-R15xM16	15	30	17	68	45	6	12	22	SRFT 300 / LBH 300.320	FSW-8025	TX-40

BALL CUTTER

► M-BFCC

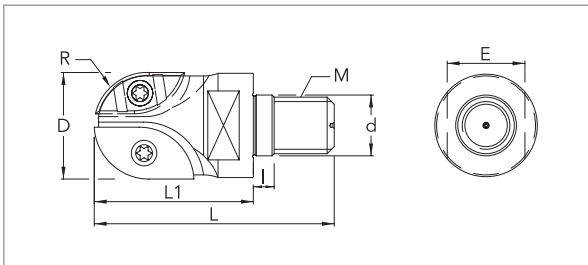


- MODULAR SHANK TYPE

INSERT TYPE → WIDIN, WALTER

Part No.	Dimensions(mm)										
	R	D	d	L	L1	I	M	E			
M-BFCC-R08xM8	8	16	8.5	45	28	6	8	12	SP3204..D16	TSB-392	TX-15
M-BFCC-R10xM10	10	20	10.5	52	33	6	10	15	SP3204..D20	TSB-393	TX-25
M-BFCC-R12.5xM12	12.5	25	12.5	60	38	6	12	19	SP3204..D25	TSB-394	TX-25
M-BFCC-R15xM16	15	30	17	68	45	6	16	22	SP3204..D30	TSB-395	TX-30

► M-SRM



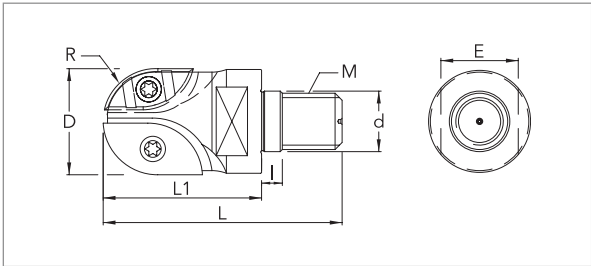
- MODULAR SHANK TYPE

INSERT TYPE → MITSUBISHI

Part No.	Dimensions(mm)								Master insert	Slave insert	NO.OF INSERT		
	R	D	d	L	L1	I	M	E					
M-SRM-R08xM8	8	16	8.5	45	28	6	8	12	SR.16C	SR.16E	2	ST2553-55 M2.5	TX-8
M-SRM-R10xM10	10	20	10.5	52	33	6	10	15	SR.20C	SR.20E		ST3072-60H M3	TX-8
M-SRM-R12.5xM12	12.5	25	12.5	60	38	6	12	19	SR.25C	SR.25E		ST4104-60W M4	TX-15
M-SRM-R15xM16	15	30	17	68	45	6	12	22	SR.30C	SR.30E		ST511-60H M5	TX-20

BALL CUTTER

► M-BHSF

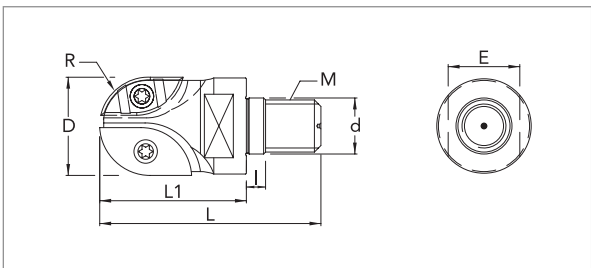


- MODULAR SHANK TYPE

INSERT TYPE → HITACHI

Part No.	Dimensions(mm)								Master insert	Slave insert	NO.OF INSERT	Screw	Screwdriver
	R	D	d	L	L _i	I	M	E					
M-BHSF-R08xM8	8	16	8.5	45	28	6	8	12	ZCE.080CE	ZCE.080SE	2	ST2553-55 M2.5	TX-8
M-BHSF-R10xM10	10	20	10.5	52	33	6	10	15	ZCE.100CE	ZCE.100SE		ST3072-60H M3	TX-8
M-BHSF-R12.5xM12	12.5	25	12.5	60	38	6	12	19	ZCE.125CE	ZCE.125SE		ST4101-60W M4	TX-15
M-BHSF-R15xM16	15	30	17	68	45	6	12	22	ZCE.150CE	ZCE.150SE		ST511-60H M5	TX-20

► M-GBEC



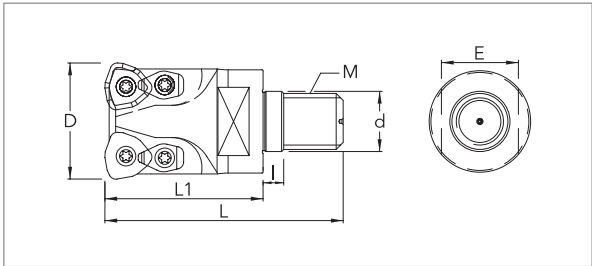
- MODULAR SHANK TYPE

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)								Master insert	Slave insert	NO.OF INSERT	Screw	Screwdriver
	R	D	d	L	L _i	I	M	E					
M-GBEC-R08xM8	8	16	8.5	45	28	6	8	12	ZPET080M	ZPET080S	2	ST2553-55 M2.5	TX-8
M-GBEC-R10xM10	10	20	10.5	52	33	6	10	15	ZPET100M	ZPET100S		ST3072-60H M3	TX-8
M-GBEC-R12.5xM12	12.5	25	12.5	60	38	6	12	19	ZPET125M	ZPET125S		ST4101-60W M4	TX-15
M-GBEC-R15xM16	15	30	17	68	45	6	16	22	ZPET150M	ZPET150S		ST5115-63P M5	TX-20

ENDMILL CUTTER

► M-AJXC

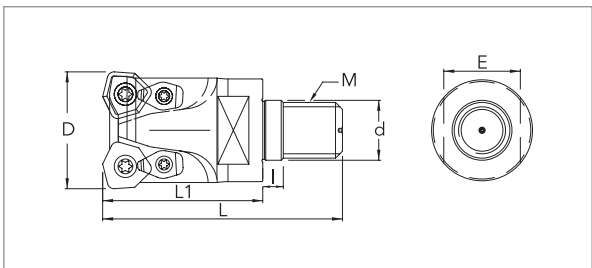


- MODULAR SHANK TYPE

INSERT TYPE → MITSUBISHI, WIDIN

Part No.	Dimensions(mm)													
	D	d	L	L ₁	I	M	E							
M-AJXC-D16xM8	16	8.5	45	28	6	8	12	2	JOMW06T		ST2553-55 M2.5	TX-8		
M-AJXC-D17xM8	17	8.5	45	28	6	10	15		JOMW080		ST3072-60H M3			
M-AJXC-D20xM10	20	10.5	52	33	6	10	15				JOMW09T		CL2C 2CLCN	ST3509-55 M3.5
M-AJXC-D21xM10	21	10.5	52	33	6	10	15							
M-AJXC-D25xM12	25	12.5	60	38	6	12	19							
M-AJXC-D26xM12	26	12.5	60	38	6	12	19							
M-AJXC-D32xM16	32	17	68	45	6	16	24							
M-AJXC-D33xM16	33	17	68	45	6	16	24							

► M-SKSC



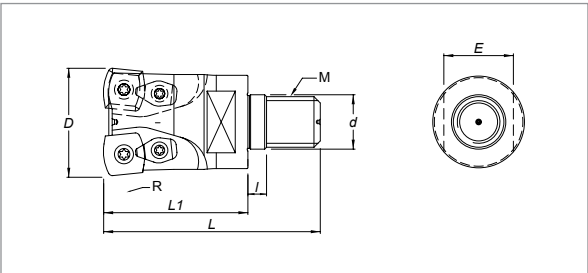
- MODULAR SHANK TYPE

INSERT TYPE → DIJET, WIDIN

Part No.	Dimensions(mm)											
	D	d	L	L ₁	I	M	E					
M-SKSC-D16xM8	16	8.5	45	28	6	8	12	2	WDMW04		ST2553-55 M2.5	TX-8
M-SKSC-D17xM8	17	8.5	45	28	6	8	12					
M-SKSC-D20xM10	20	10.5	52	33	6	10	15					
M-SKSC-D21xM10	21	10.5	52	33	6	10	15					
M-SKSC-D25xM12	25	12.5	60	38	6	12	19					
M-SKSC-D26xM12	26	12.5	60	38	6	12	19					
M-SKSC-D32xM16	32	17	68	45	6	16	24					
M-SKSC-D33xM16	33	17	68	45	6	16	24					
									WDMW06	CL2C 2CLCN	ST408-43 M4	TX-15
									WDMW08	3CLCN	ST4510-60 M4.5	TX-20

ENDMILL CUTTER

► M-ASRL

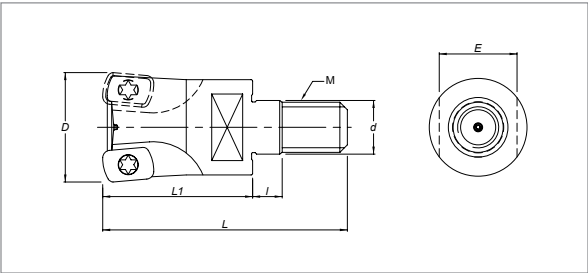


- MODULAR SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)												
	D	d	L	L ₁	I	M	E	R					
M-ASRL-D20xM10	20	10.5	52	33	6	10	15	10	2	ED.W 0803TN-10		ST509-55 M3.5	TX-15
M-ASRL-D21xM10	21	10.5	52	33	6	10	15	10					
M-ASRL-D25xM12	25	12.5	60	38	6	12	19	10					TX-20
M-ASRL-D26xM12	26	12.5	60	38	6	12	19	10					
M-ASRL-D32xM16	32	17	68	45	6	12	24	15(10)					
M-ASRL-D33xM16	33	17	68	45	6	16	24	15(10)		ED.W 13T4TN-15(10)	3CLCN	ST512-63P M4	

► M-ASRL-Pico



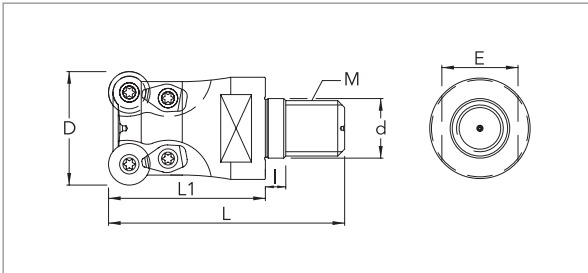
- MODULAR SHANK TYPE

INSERT TYPE → HITACHI, WIDIN

Part No.	Dimensions(mm)											
	D	d	L	L ₁	I	M	E					
M-ASRL-D16xM8	16	8.5	45	28	6	8	12	2	2	EPMW0603	ST2553-55 M2.5	TX-8
M-ASRL-D17xM8	17	8.5	45	28	6	8	12	2				
M-ASRL-D20xM10	20	10.5	52	33	6	10	15	3				
M-ASRL-D21xM10	21	10.5	52	33	6	10	15	3				
M-ASRL-D25xM12	25	12.5	60	38	6	12	19	4				
M-ASRL-D26xM12	26	12.5	60	38	6	12	19	4				
M-ASRL-D32xM16	32	17	68	45	6	12	24	5				
M-ASRL-D33xM16	33	17	68	45	6	16	24	5				
M-ASRL-D40xM16	40	17	68	45	6	16	24	6				

ENDMILL CUTTER

► M-RMCC

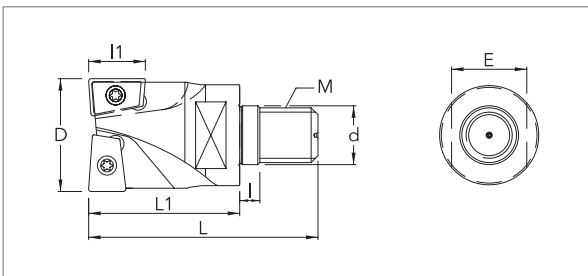


- MODULAR SHANK TYPE

INSERT TYPE → HITACHI, WALTER, WIDIN

Part No.	Dimensions(mm)											
	D	d	L	L ₁	I	M	E					
M-RMCC-D1608xM8-H	16	8.5	45	28	6	8	12	2	RDMW 0802-H		ST307-55 M3	TX-8
M-RMCC-D1708xM8-H	17	8.5	45	28	6	8	12		RDMT 0803			
M-RMCC-D1608xM8	16	8.5	45	25	6	8	12		RDMT 10T3	CL2C 2CLCN	ST408-43 M4	TX-15
M-RMCC-D1708xM8	17	8.5	45	25	6	8	12					
M-RMCC-D2010xM10	20	10.5	52	33	6	10	15					
M-RMCC-D2110xM10	21	10.5	52	33	6	10	15					
M-RMCC-D2512xM12	25	12.5	60	38	6	12	19		RDMT 1204		ST4084-60 M4	
M-RMCC-D2612xM12	26	12.5	60	38	6	12	19					
M-RMCC-D3212xM16	32	17	68	45	6	16	24					
M-RMCC-D3312xM16	33	17	68	45	6	16	24					

► M-AQXR



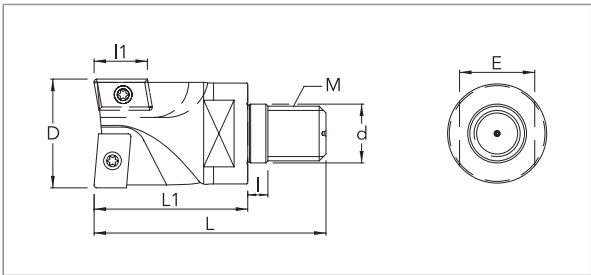
- MODULAR SHANK TYPE

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)											
	D	d	L	L ₁	I	II	M	E				
M-AQXR-D16xM8	16	8.5	45	28	6	7.4	8	12	2	QOMT0830R	ST2043-60H M2	TX-6
M-AQXR-D17xM8	17	8.5	45	28	6	7.4	8	12		QOMT1035R	ST2553-55 M2.5	TX-8
M-AQXR-D20xM10	20	10.5	52	33	6	9.2	10	15		QOMT1342R	ST3072-60H M3	
M-AQXR-D21xM10	21	10.5	52	33	6	9.2	10	15				
M-AQXR-D25xM12	25	12.5	60	38	6	11.5	12	19		QOMT1651R	ST4084-60 M4	
M-AQXR-D26xM12	26	12.5	60	38	6	11.5	12	19				
M-AQXR-D32xM16	32	17	68	45	6	14.5	16	24				
M-AQXR-D33xM16	33	17	68	45	6	14.5	16	24				

ENDMILL CUTTER

► M-SECL



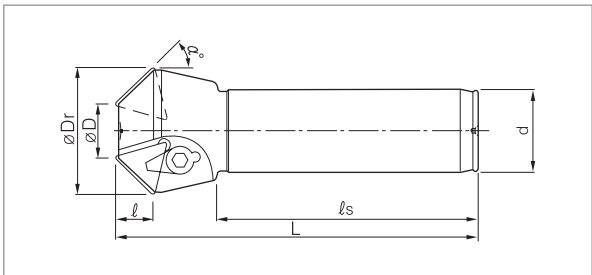
- MODULAR SHANK TYPE

INSERT TYPE → **HITACHI**

Part No.	Dimensions(mm)												
	D	d	L	L1	I	II	M	E					
M-SECL-D16xM8	16	8.5	45	28	6	8	8	12	2				TX-6
M-SECL-D17xM8	17	8.5	45	28	6	8	8	12					
M-SECL-D20xM10	20	10.5	52	33	6	9.4	10	15					TX-8
M-SECL-D21xM10	21	10.5	52	33	6	9.4	10	15					
M-SECL-D25xM12	25	12.5	60	38	6	12.3	12	19					TX-8
M-SECL-D26xM12	26	12.5	60	38	6	12.3	12	19					
M-SECL-D32xM16	32	17	68	45	6	15	16	24					TX-15
M-SECL-D33xM16	33	17	68	45	6	15	16	24					

CHAMFER MILL CUTTER

► CHCL

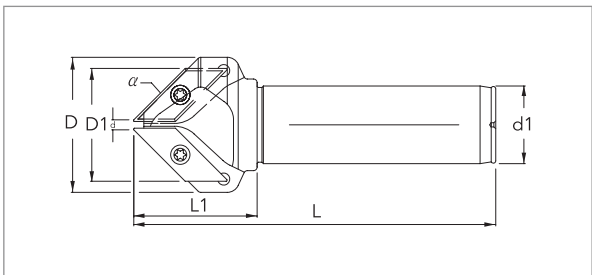


- STRAIGHT SHANK TYPE

INSERT TYPE → **TAEGU-TEC**

ITEM CODE		NO.OF INSERT	Dimensions(mm)								INSERTS USED
			α°	ØD	ØDr	L	Ød	ℓ	ℓ S		
Long Shank	CHCL10-30°	1	30°	10	25	120	25	7.1	90	TP16	TPKN16030 
	CHCL20-30°	2	30°	20	35	150	32	9.9	110	TP16	TPKN16030 
	CHCL35-30°	2	30°	35	55.8	150	32	9.9	110	TP22	TPKN22040 
	CHCL05-45°	1	45°	5	25	120	20	10.1	90	TP16	TPKN16030 
	CHCL10-45°	2	45°	10	31.0	140	25	10.1	110	TP16	TPKN16030 
	CHCL20-45°	2	45°	20	48.8	150	32	14.0	110	TP22	TPKN22040 
	CHCL35-45°	3	45°	35	63.8	150	32	14.0	110	TP22	TPKN22040 

► CSCC



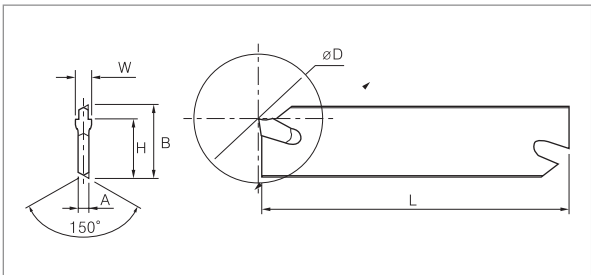
- STRAIGHT SHANK TYPE

INSERT TYPE → **TUNGALOY, WIDIN**

Part No.	Dimensions(mm)										
	α°	D	D ₁	d	d ₁	L	L ₁				
CSCC-05031R-10°	10°	26	27	14	32	130	50	1	XCET 310404ER	ST512-63P M5	TX-20
CSCC-05031R-15°	15°	29	30	13							
CSCC-05031R-20°	20°	29	30	9							
CSCC-05031R-25°	25°	37	33	6							
CSCC-05031R-30°	30°	44	34	5							
CSCC-05031R-35°	35°	49	40	4							
CSCC-05031R-40°	40°	51	43	4				2			
CSCC-05031R-45°	45°	56	48	4							
CSCC-05031R-50°	50°	60	53	4							
CSCC-05031R-55°	55°	65	55	4							
CSCC-05031R-60°	60°	74	57	4							

BLADES

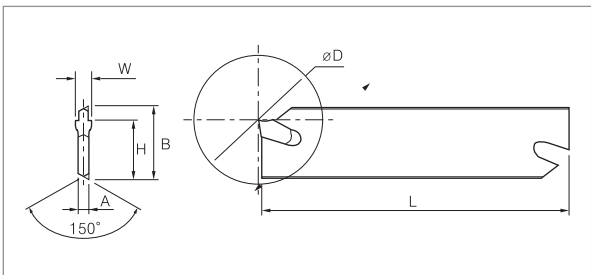
SD Blade



INSERT TYPE → TAEГУ-TEC

Part No.	B	L	H	A	W	Dwax.	Insert	Wrenches	Block
SD 26 - 3	26.0	110	21.4	2.4	3.1	75	KSXN 3	KTW R1	CTHT□□-26
SD 26 - 4	26.0	110	21.4	3.2	4.1	80	KSXN 4		
SD 32 - 3	32.0	150	24.8	2.4	3.1	100	KSXN 3		CTHT□□-32
SD 32 - 4	32.0	150	24.8	3.2	4.1	100	KSXN 4		

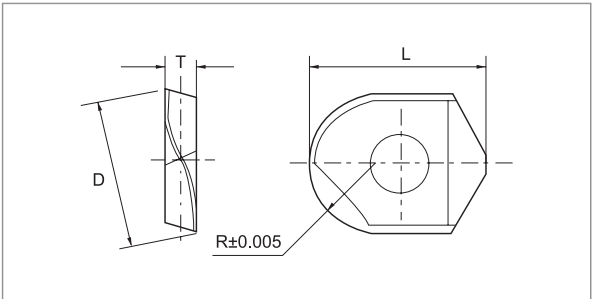
CTHT



Part No.	Dimensions(mm)									Screw	Wrenches
	H	H1	H2	H3	H4	B	L ₁	L ₂	L ₃		
CTHT 20 - 26	26	21.4	20	8	38	4.0	87	19	33	M6×1.0 S.H.C.S	L-W5
CTHT 20 - 32	32	24.8	20	13	38	4.0	100	19	35		
CTHT 25 - 26	26	21.4	25	8	48	5.5	110	20	36		
CTHT 25 - 32	32	24.8	25	3	48	5.5	120	28	44		
CTHT 32 - 32	32	30	32	4	53	5.5	110	31	48		

INSERT TIP

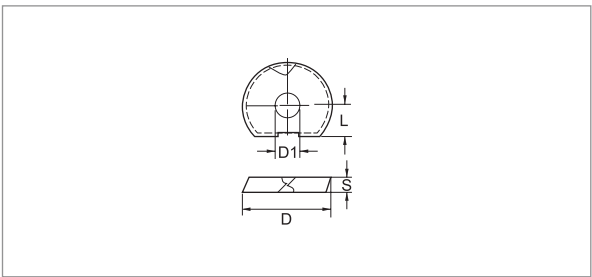
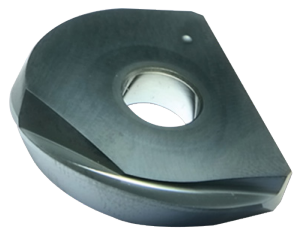
Finishing Ball Insert



- APPLICABLE HEAD : ABPF_(701p), C-ABPF_(701p), M-ABPF_(714p)

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	R	D	L	T
ZPSW 120	6	12	14.5	3.2
ZPSW 130	6.5	13	14.5	3.2
ZPSW 160	8	16	16.5	4.2
ZPSW 170	8.5	17	16.5	4.2
ZPSW 200	10	20	20.5	5.2
ZPSW 210	10.5	21	20.5	5.2
ZPSW 250	12.5	25	24.0	6.2
ZPSW 260	13	26	24.0	6.2
ZPSW 300	15	30	29.0	7.2
ZPSW 320	16	32	30.0	7.2



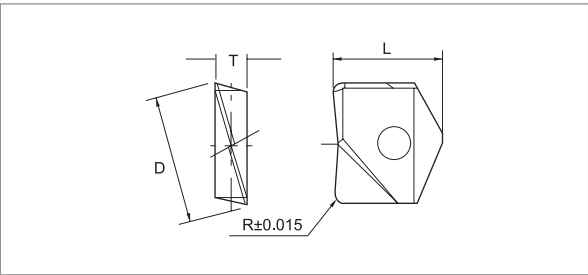
- APPLICABLE HEAD : BFCC_(700p), M-BFCC_(714p)

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	D	D1	L	S
SP3204-D100	10	4	5	2.5
SP3204-D120	12	5	6	2.5
SP3204-D160	16	5	6	3
SP3204-D200	20	5	6	3
SP3204-D250	25	6	9	4
SP3204-D300	30	8	10	5
SP3204-D320	32	8	10	5

INSERT TIP

► Finishing Corner Radius Insert

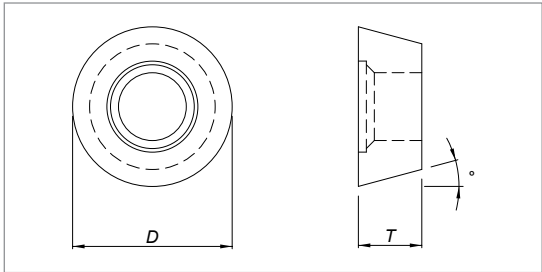


- APPLICABLE HEAD : ABPF_(701p), C-ABPF_(701p), M-ABPF_(714p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	L	D	T	R
ZPSR-100-0.5R	12.0	10	2.7	0.5
ZPSR-100-1.0R	12.0	10	2.7	1.0
ZPSR-100-2.0R	12.0	10	2.7	2.0
ZPSR-120-0.5R	14.5	12	3.2	0.5
ZPSR-120-1.0R	14.5	12	3.2	1.0
ZPSR-120-2.0R	14.5	12	3.2	2.0
ZPSR-130-0.5R	14.5	13	3.2	0.5
ZPSR-130-1.0R	14.5	13	3.2	1.0
ZPSR-130-2.0R	14.5	13	3.2	2.0
ZPSR-160-0.5R	16.5	16	4.2	0.5
ZPSR-160-1.0R	16.5	16	4.2	1.0
ZPSR-160-2.0R	16.5	16	4.2	2.0
ZPSR-170-0.5R	16.5	17	4.2	0.5
ZPSR-170-1.0R	16.5	17	4.2	1.0
ZPSR-170-2.0R	16.5	17	4.2	2.0
ZPSR-200-0.5R	20.0	20	5.2	0.5
ZPSR-200-1.0R	20.0	20	5.2	1.0
ZPSR-200-2.0R	20.0	20	5.2	2.0
ZPSR-210-0.5R	20.0	21	5.2	0.5
ZPSR-210-1.0R	20.0	21	5.2	1.0
ZPSR-210-2.0R	20.0	21	5.2	2.0
ZPSR-250-0.5R	22.5	25	6.2	0.5
ZPSR-250-1.0R	22.5	25	6.2	1.0
ZPSR-250-2.0R	22.5	25	6.2	2.0
ZPSR-260-0.5R	22.5	26	6.2	0.5
ZPSR-260-1.0R	22.5	26	6.2	1.0
ZPSR-260-2.0R	22.5	26	6.2	2.0
ZPSR-300-0.5R	27.0	30	7.2	0.5
ZPSR-300-1.0R	27.0	30	7.2	1.0
ZPSR-300-2.0R	27.0	30	7.2	2.0

INSERT TIP

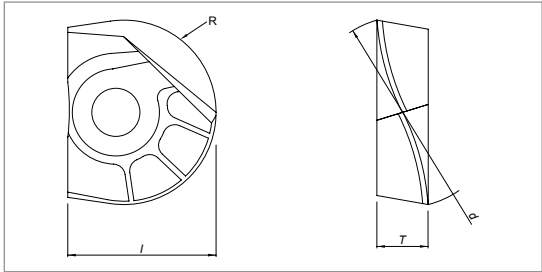
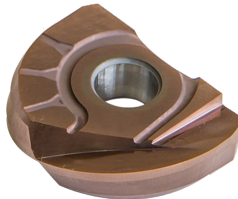
► Round Insert



- APPLICABLE HEAD : C-RDT_(684p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			MATERIAL
	D	T	Q	
RDMW0501	5.0	1.4	15	
RDMW0702	7.0	2.38	15	
RDMW1003	10.0	3.18	15	

► Ball Insert(Indexable Milling)

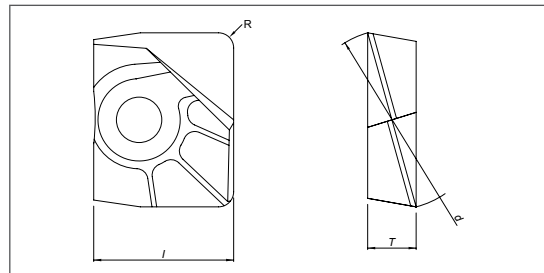


- APPLICABLE HEAD : SRFH_(702p), C-SRFH_(702p), M-SRFH_(714p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	l	d	T	R
LBH - 080	7.0	8.0	2.4	4
LBH - 090	7.5	9.0	2.4	4.5
LBH - 100	8.5	10.0	2.6	5
LBH - 110	9.0	11.0	2.6	5.5
LBH - 120	10.0	12.0	3	6
LBH - 130	10.5	13.0	3	6.5
LBH - 160	12.0	16.0	4	8
LBH - 170	12.5	17.0	4	8.5
LBH - 200	15.0	20.0	5	10
LBH - 210	15.5	21.0	5	10.5
LBH - 250	18.5	25.0	6	12.5
LBH - 260	19.0	26.0	6	13
LBH - 300	22.5	30.0	7	15
LBH - 310	23.0	31.0	7	15.5
LBH - 320	23.5	32.0	7	16

INSERT TIP

► Corner Radius Insert (Indexable Milling)



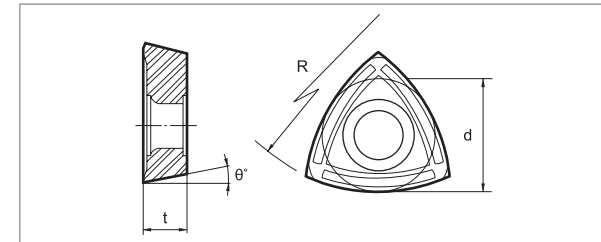
- APPLICABLE HEAD : SRFH_(702p), C-SRFH_(702p), M-SRFH_(714p)

INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	L	d	T	R
LRH100-R0.5	8.5	10.0	2.6	0.5
LRH100-R1.0	8.5	10.0	2.6	1.0
LRH100-R2.0	8.5	10.0	2.6	2.0
LRH110-R0.5	9.0	11.0	2.6	0.5
LRH110-R1.0	9.0	11.0	2.6	1.0
LRH110-R2.0	9.0	11.0	2.6	2.0
LRH120-R0.5	10.0	12.0	3	0.5
LRH120-R1.0	10.0	12.0	3	1.0
LRH120-R2.0	10.0	12.0	3	2.0
LRH130-R0.5	10.5	13.0	3	0.5
LRH130-R1.0	10.5	13.0	3	1.0
LRH130-R2.0	10.5	13.0	3	2.0
LRH160-R0.5	12.0	16.0	4	0.5
LRH160-R1.0	12.0	16.0	4	1.0
LRH160-R2.0	12.0	16.0	4	2.0
LRH170-R0.5	12.5	17.0	4	0.5
LRH170-R1.0	12.5	17.0	4	1.0
LRH170-R2.0	12.5	17.0	4	2.0
LRH200-R0.5	15.0	20.0	5	0.5
LRH200-R1.0	15.0	20.0	5	1.0
LRH200-R2.0	15.0	20.0	5	2.0
LRH210-R0.5	15.0	21.0	5	0.5
LRH210-R1.0	15.0	21.0	5	1.0
LRH210-R2.0	15.0	21.0	5	2.0
LRH250-R0.5	18.5	25.0	6	0.5
LRH250-R1.0	18.5	25.0	6	1.0
LRH250-R2.0	18.5	25.0	6	2.0
LRH260-R0.5	19.0	26.0	6	0.5
LRH260-R1.0	19.0	26.0	6	1.0
LRH260-R2.0	19.0	26.0	6	2.0
LRH300-R0.5	22.5	30.0	7	0.5
LRH300-R1.0	22.5	30.0	7	1.0
LRH300-R2.0	22.5	30.0	7	2.0
LRH320-R0.5	22.5	32.0	7	0.5
LRH320-R1.0	22.5	32.0	7	1.0
LRH320-R2.0	22.5	32.0	7	2.0

INSERT TIP

► Ball Cutter Insert

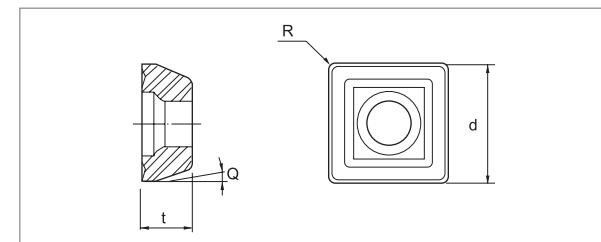


- APPLICABLE HEAD : BMCC-MD_(689p)

INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	R	d	t	θ°
RBMX50	25	12.7	5.56	11°

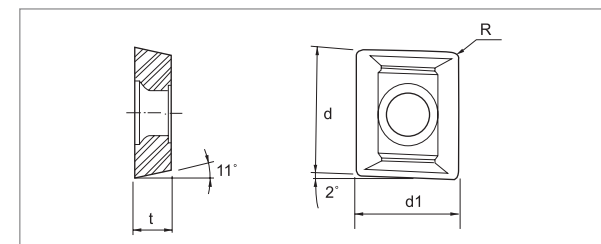
► Helical Cutter Insert



- APPLICABLE HEAD : BMCC-MD_(689p), HMCC-MD_(698p)

INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	d	t	R	θ°
SPMT090308	9.525	3.8	0.8	14°
SPMT120408	12.7	4.76	0.8	11°



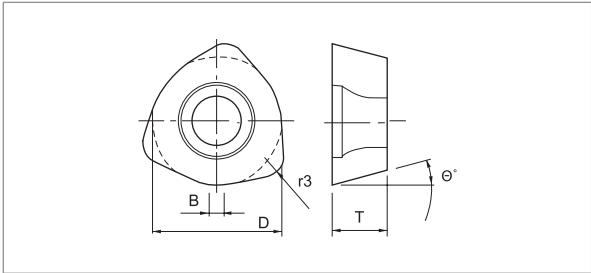
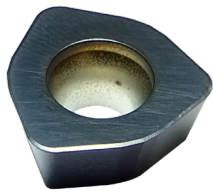
- APPLICABLE HEAD : HMCC-MD_(698p)

INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	d	d1	t	R
ZPMT1504...	15.88	12.7	4.76	0.8

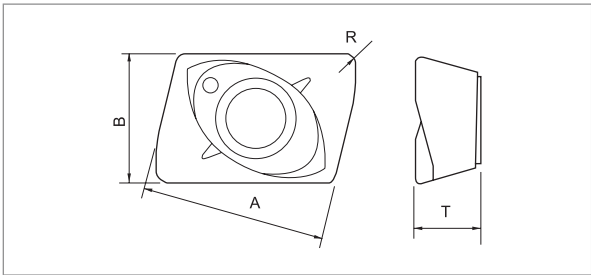
INSERT TIP

► Finishing Mill Insert



- APPLICABLE HEAD : SKSC_(712p), SKSS_(712p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)				
	D	R	T	θ°	C
WDMW04T215	6.5	0.8	2.8	13	0.8
WDMW050310	8	1.0	3.2	15	1.0
WDMW06T312	10	1.2	3.9	15	1.2
WDMW080415	13	1.5	5.5	15	1.5

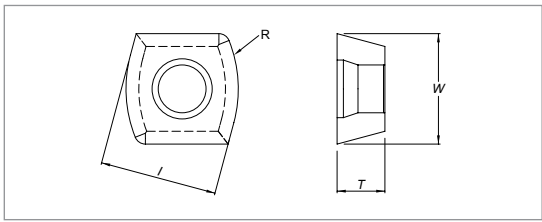


- APPLICABLE HEAD : MPMC_(685p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	B	A	T	R
EOMT-060210ER	4.3	6.43	2.5	1.0

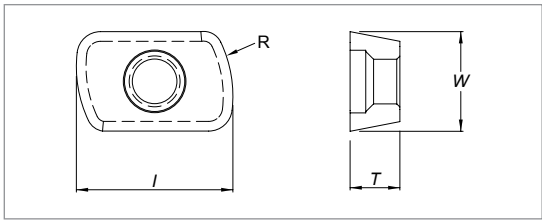
INSERT TIP

► Indexable Milling Insert



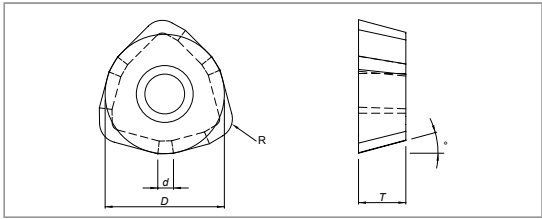
- APPLICABLE HEAD : ASRL_(708p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	R	I	T	W
EDNW080308	10	8.1	3.18	7.94
EDNW10T3	10	10	3.97	10
EDNW13T4	10	13.5	5.56	12.7
EDNW15T4	15	15	5.56	14



- APPLICABLE HEAD : ASRL_(708p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	R	I	T	W
EDNW0603	8	10	3.18	6.35

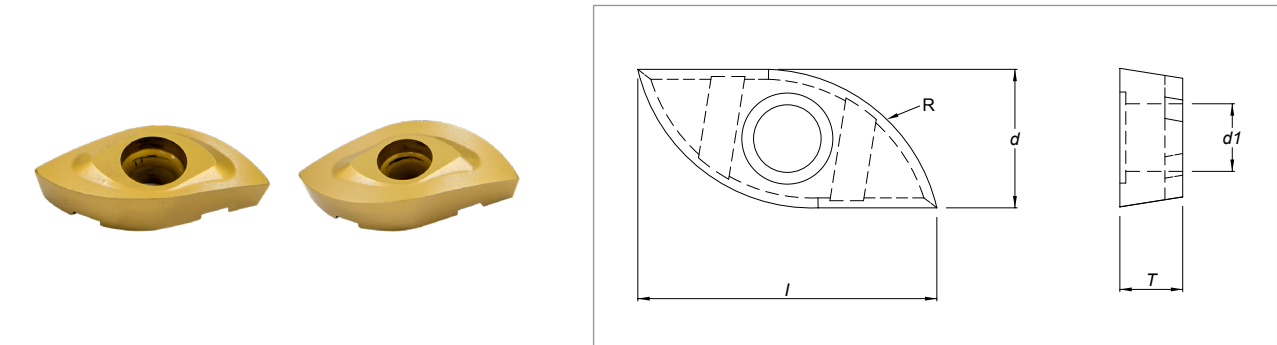


- APPLICABLE HEAD : AJXC_(711p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)				
	D	d	R	T	θ
JOMW06T215	6.35	1.2	1.5	2.78	13°
JOMW080320	8	1.4	2	3.18	13°
JOMW09T320	9.525	1.8	2	3.97	15°
JOMW120420	12	2.5	2	4.76	15°
JOMW140520	4	2.8	2	5.56	15°

INSERT TIP

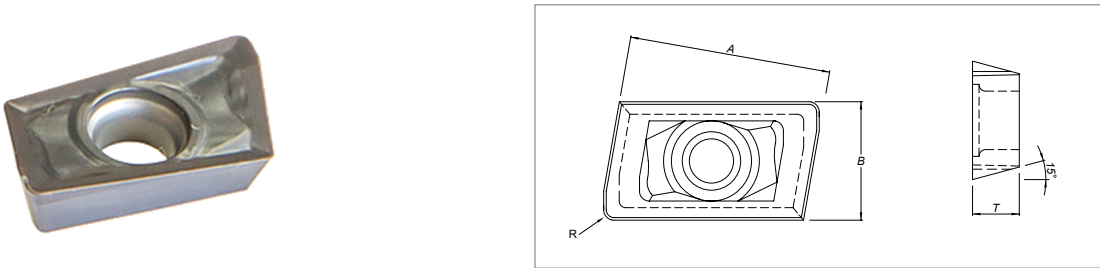
▶ Indexable Insert



- APPLICABLE HEAD : GBEC_(695p) INSERT TYPE → **WIDIN**

Part No.		Dimensions(mm)				
		l	d	T	R	d ₁
	ZPET080-M	16	8.0	3.5	8	2.9
	ZPET100-M	19	10.4	4.5	10	3.4
	ZPET125-M	24	12.9	5.3	12.5	4.5
	ZPET150-M	28	15.4	7	15	5.6
	ZPET080-S	15	6.6	3.1	8	2.9
	ZPET100-S	15.5	8.4	3.8	10	3.4
	ZPET125-S	20.5	10.7	4.5	12.5	4.5
	ZPET150-S	25	12.4	6.5	15	5.6

▶ Indexable Insert

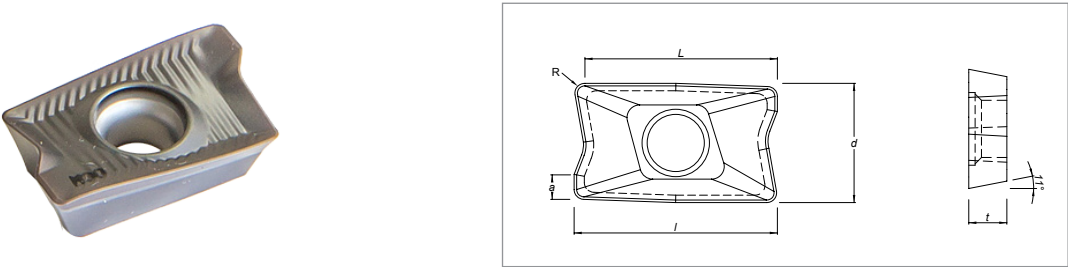


- APPLICABLE HEAD : AHU_(681p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)			
	A	B	T	R
JDMT100308R	11	6.1	3.5	0.8
JDMT150508R	16	9.12	5	0.8

INSERT TIP

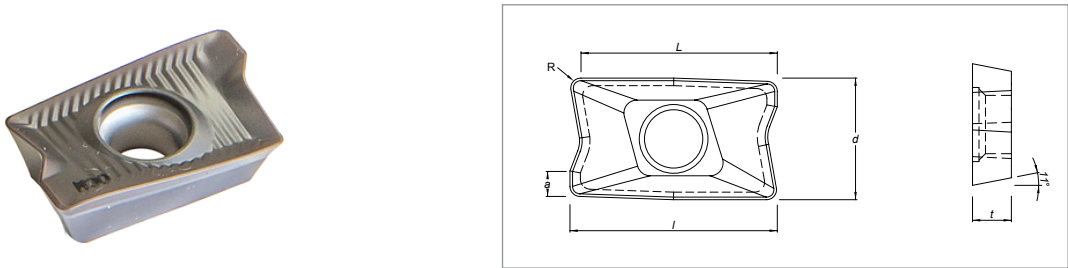
▶ APKT17(MT)Insert



- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT170508-MT	18.5	10.7	5.56	2.0	16.1	0.8

▶ APKT17(EM)Insert

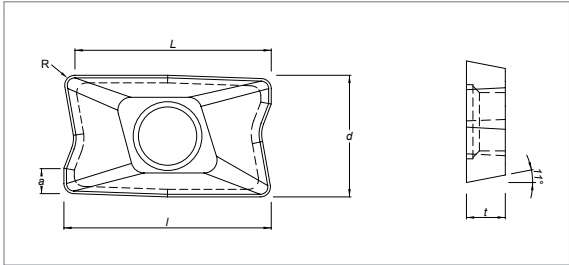
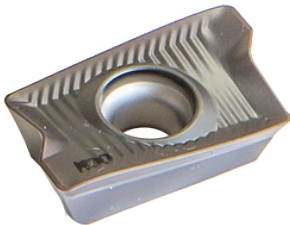


- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT170508-EM	18.5	10.7	5.56	2.0	16.1	0.8

INSERT TIP

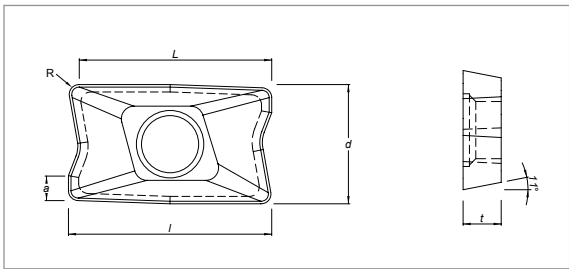
▶ APKT17(SU)Insert



- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT170508-SU	18.5	10.7	5.56	2.0	16.1	0.8

▶ APKT17(AL)Insert

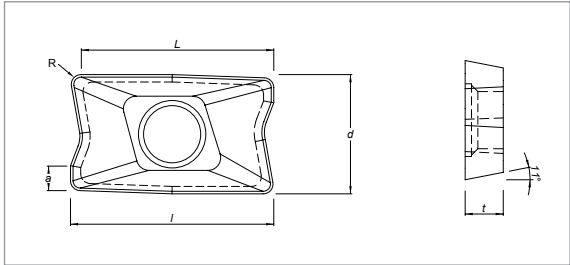


- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT170508-AL	17.6	10.7	5.27	3.0	16.1	0.8

INSERT TIP

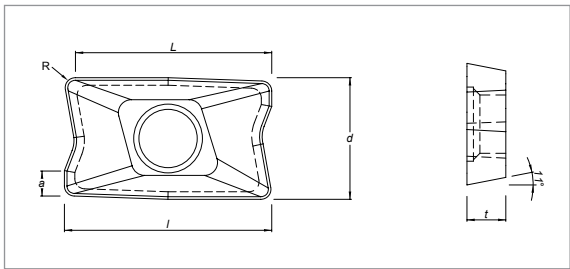
▶ APKT09(MT)Insert



- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT09T304-MT	10.5	6.20	3.8	1.0	8.8	0.4

▶ APKT09(EM)Insert

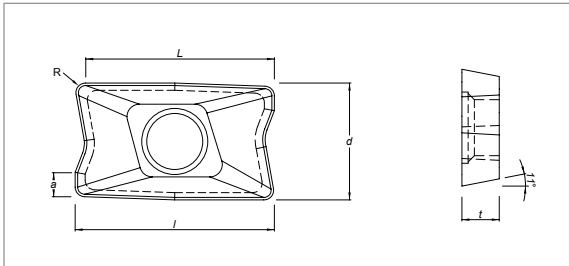


- APPLICABLE HEAD : ENCC_(680p) INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT09T304-EM	10.5	6.20	3.8	1.0	8.8	0.4

INSERT TIP

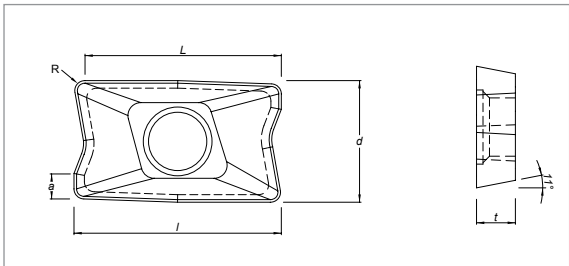
▶ APKT09(SU)Insert



- APPLICABLE HEAD : ENCC^(680p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT09T304-SU	10.5	6.20	3.8	1.0	8.8	0.4

▶ APKT09(AL)Insert

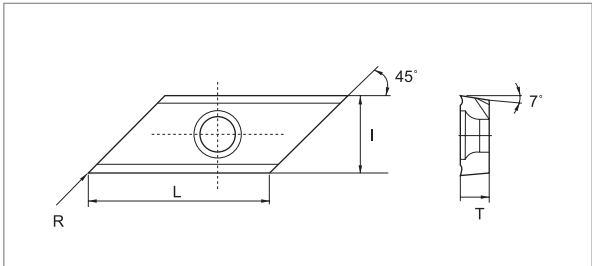


- APPLICABLE HEAD : ENCC^(680p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)					
	l	d	t	a	L	R
APKT09T304-AL	10.5	6.20	3.8	1.0	8.8	0.4

INSERT TIP

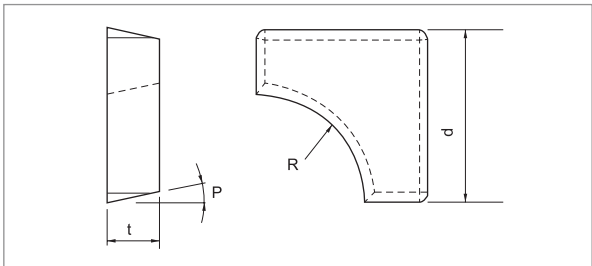
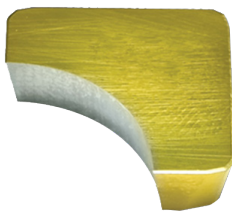
▶ Chamfering Mill Insert



- APPLICABLE HEAD : CSCC^(720p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	L	l	T	R
XCET310404ER-NON-COATING	22	12.7	4.5	0.4
XCET310404ER-TIALN COATING	22	12.7	4.5	0.4

▶ Rounding Insert

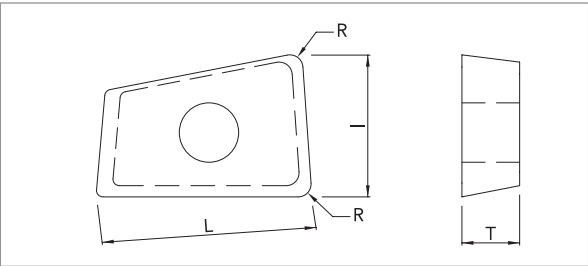


- APPLICABLE HEAD : Reverse R cutter^(738p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	R	d	t	P°
SPKR-R	10	15.875	4.76	11°

INSERT TIP

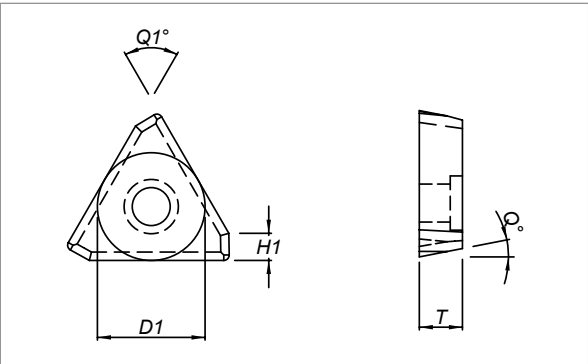
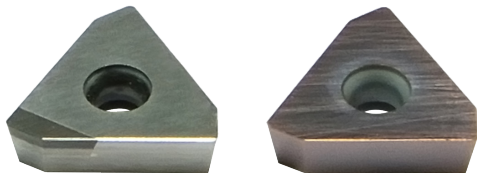
► Finishing Mill Insert



- APPLICABLE HEAD : AQXR_(705p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			
	L	I	T	R
QOMT0830R	8.4	5.5	3	0.8
QOMT1035R	10.6	7	3.5	0.8
QOMT1342R	13.1	8.7	4.2	0.8
QOMT1651R	16.5	11	5.1	0.8

► CBN Insert

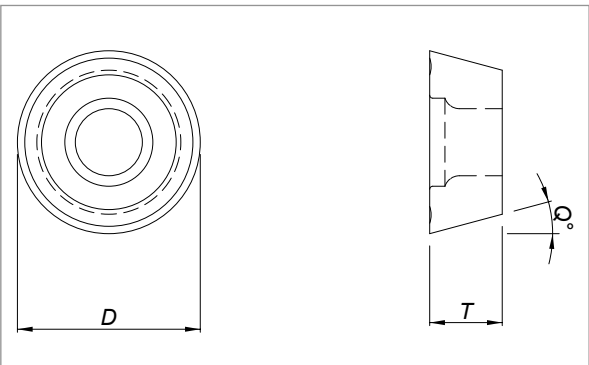


- APPLICABLE HEAD : Slotting Cutter_(746p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)					MATERIAL	COATING
	D1	T	H1	Q	Q1		
TPEN130302-P	7.94	3.18	2	11°	60°	P	TIN
TPEN130302-CBN	7.94	3.18	2	11°	60°	CBN	O

INSERT TIP

► Round Mill Insert

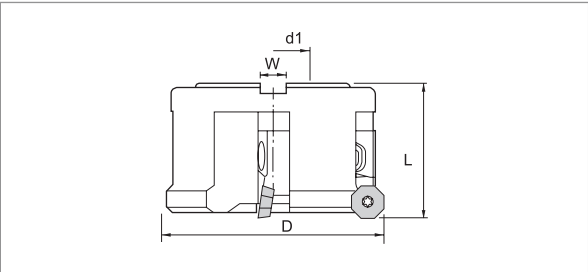


- APPLICABLE HEAD : RMCC_(682p), C-RDT_(684p) INSERT TYPE → WIDIN

Part No.	Dimensions(mm)			COATING
	D	T	Q	
RDMW0802(Z)	8	2.38	15°	TIN, TiAlN
RDMW10T3(Z)	10	3.97		
RDMW1204(Z)	12	4.76		
RDMW1605(Z)	16	5.56		

FACE-CUTTER

► Medium Cutting Cutter

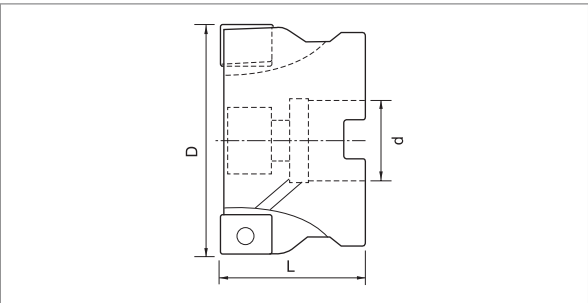


- BORE MOUNTED TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)									
	D	L	d1	W						
OFC-8063254	80	63	25.4	9.5	5	ODMT0605	ODHA0605	R592	FS1030	T20
OFC-1063317	100	63	31.75	12.7	6					
OFC-1363381	130	63	38.1	15.9	8					

► IMCC



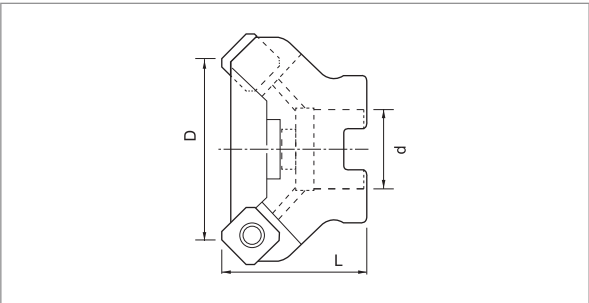
- BORE MOUNTED TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)						
	D	d	L				
IMCC-502240	50	22	40	3	ADMT 160608	FS-1458	T-15
IMCC-632240	63	22	40	4			
IMCC-8025,450	80	25.4	50	5			
IMCC-10031.7550	100	31.75	50	5			
IMCC-12538.150	125	38.1	50	7			
IMCC-16050.850	160	50.8	50	8			
IMCC-20047.625 63	200	47.625	63	10			

FACE-CUTTER

► CMCC



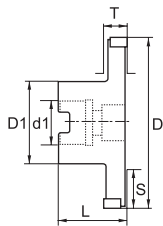
- BORE MOUNTED TYPE

INSERT TYPE → WALTER

Part No.	Dimensions(mm)						
	D	d	L				
CMCC-502240	50	22	40	4	SN.X 1205...	FS-1458	T-15
CMCC-632240	63	22	40	6			
CMCC-8025,450	80	25.4	50	7			
CMCC-10031.7550	100	31.75	50	8			
CMCC-12538.150	125	38.1	63	10			
CMCC-16058.863	160	50.8	63	12			
CMCC-20047.625 63	200	47.625	63	18			

SIDE CUTTER

▶ Side Milling Cutter

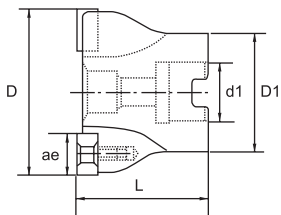


- BORE MOUNTED TYPE

INSERT TYPE → **WALTER**

Part No.	Dimensions(mm)									
	D	L	D1	d1	T	S				
CC-100254-T10	100	50	50	25.4	10	23	10	CNMU080508	M3 FS 1015	T8
CC-100254-T12	100	50	50	25.4	12	23	10	CNMU080508	M3 FS 1015	T8
CC-125371-T10	125	50	60	31.75	10	31	12	CNMU080508	M3 FS 1015	T8
CC-125371-T12	125	50	60	31.75	12	31	12	CNMU080508	M3 FS 1015	T8
CC-160381-T12	160	52	80	38.1	12	38	14	CNMU080508	M3 FS 1015	T8
CC-160381-T16	160	52	80	38.1	16	38	12	CNMU120608	M4 FS 1007	T15
CC-200508-T16	200	55	80	50.8	16	48	14	CNMU120608	M4 FS 1007	T15
CC-200508-T20	200	55	80	50.8	20	48	14	CNMU120608	M4 FS 1007	T15

▶ Circular Face Cutter



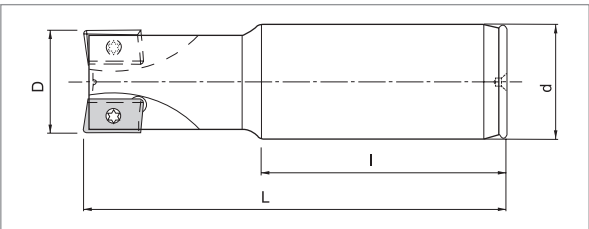
- BORE MOUNTED TYPE

INSERT TYPE → **WALTER**

Part No.	Dimensions(mm)								
	D	d1	L	D1					
CC-401640	40	16	40	35	3	CNMU080508	M3 FS 1015	T8	
CC-502250	50	22	50	47	3	CNMU120608	M4 FS 1007	T15	
CC-632250	63	22	50	60	4	CNMU120608	M4 FS 1007	T15	
CC-802550	80	25.4	50	70	5	CNMU120608	M4 FS 1007	T15	

KEY-HOME CUTTER

▶ Key-Home Cutter

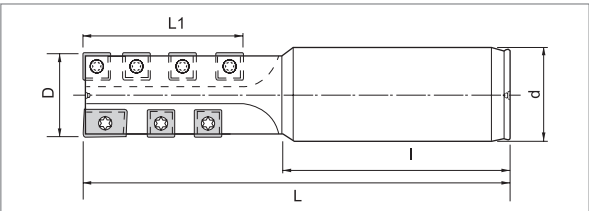


- STRAIGHT SHANK TYPE

INSERT TYPE → **WIDIN, WALTER, TAEGU-TEC**

Part No.	Dimensions(mm)								
	D	d	L	I					
ENCC-2416120	24	25	120	75	2	AP..1604	ST4084-60 M4	TX-15	
ENCC-2716120	27	25	120	75					
ENCC-2916120	29	32	120	75					
ENCC-3116120	31	32	120	75					
ENCC-3516120	35	32	120	75					

▶ Key-Home Cutter, Outside Cutter

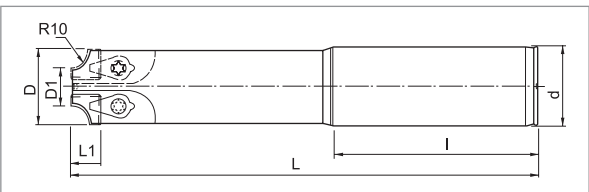


- STRAIGHT SHANK TYPE

INSERT TYPE → **WIDIN, WALTER, TAEGU-TEC**

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT			
	D	d	L	L1	I							
KEYHOME-D27x32x150L	27	32	150	70	80	2	1	P27215 -3R	6	SDMT 090308	ST408-43 M4	TX-15
KEYHOME-D29x32x150L	29	32	150	70	80				8			
KEYHOME-D29x32x160L	29	32	160	80	80							
KEYHOME-D29x32x200L	29	32	200	80	80							

▶ Corner R Holder



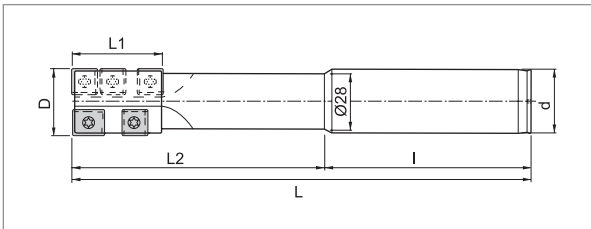
- STRAIGHT SHANK TYPE

INSERT TYPE → **WIDIN**

Part No.	Dimensions(mm)							
	D	D1	d	L	I			
Reverse R cutter	40	20	42	250	110	2	SPKR-10R	TP22

RELIEF CUTTER

► Relief Cutter

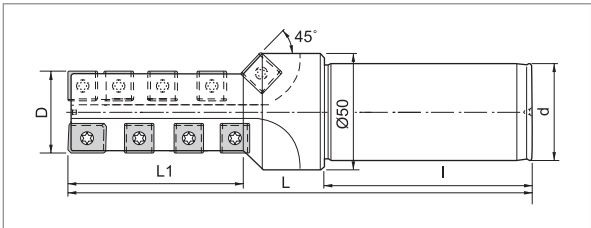


- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN, WALTER, TAEGU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT					
	D	d	L	L ₁	I									
RELIEF-D15x10x100L	15	12	100	10	52	2	1		2	SPMG 060204	ST2204-55 M2.2		TX-06	
RELIFE-D19x10x100L	19	16	100	10	52				2					
RELIFE-D33x25x230L	33	32	230	25	100				2					
RELIFE-D33x45x230L	33	32	230	45	100				4					
RELIFE-D33x45x300L	33	32	300	45	100				4					
RELIFE-D34x25x230L	34	32	230	25	100				2					
RELIFE-D34x35x230L	34	32	230	35	100				3					
RELIFE-D34x45x230L	34	32	230	45	100				4					
RELIFE-D34x45x300L	34	32	300	45	100				4					
RELIFE-D35x25x230L	35	32	230	25	100				2					
RELIFE-D35x45x230L	35	32	230	45	100				4					
RELIFE-D35x45x300L	35	32	300	45	100	4	2		4	SPMT 120408	ST511-43 M5		TX-20	
RELIFE-D54x45x265L	54	42	265	45	220				10					

► U-Home Cutter



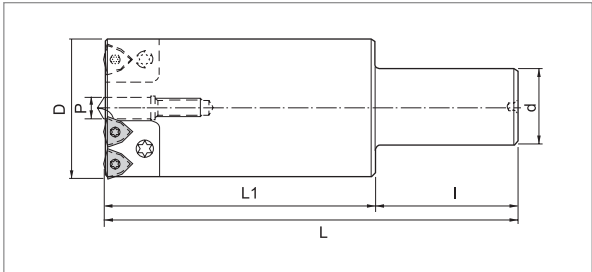
- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN, WALTER, TAEGU-TEC

Part No.	Dimensions(mm)						NO.OF INSERT		NO.OF INSERT					
	D	d	L	L ₁	I									
U-HOME-D32x42x200L	32	42	200	75	90	2	1		7	SPMT 120408	ST511-43 M5		TX-20	
U-HOME-D34x42x200L	34	42	200	75	90				7					
U-HOME-D35x42x200L	35	42	200	75	90				7					
U-HOME-D39x42x200L	39	42	200	75	90				7					
U-HOME-D40x42x200L	40	42	200	75	90				7					
U-HOME-D44x42x200L	44	42	200	75	90				7					
U-HOME-D45x42x200L	45	42	200	75	90				7					

POST U-DRILL

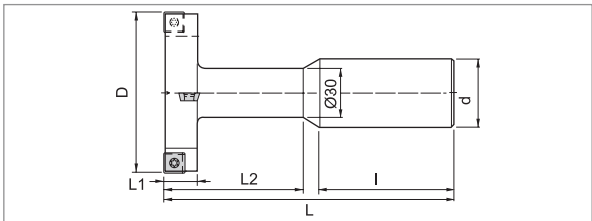
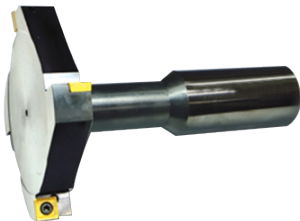
► Post U-Drill



- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)									
	D	P	L ₁	I	d					
PU-561242	56	12	270	90	42		WCMT 08		M4.5 ST4510-60 M4.5	T-20
PU-581242	58	12								
PU-681642	68	16								
PU-761242	76	12								
PU-781242	78	12								
PU-881642	88	16								
PU-961642	96	16								
PU-981642	98	16								

► T-Cutter



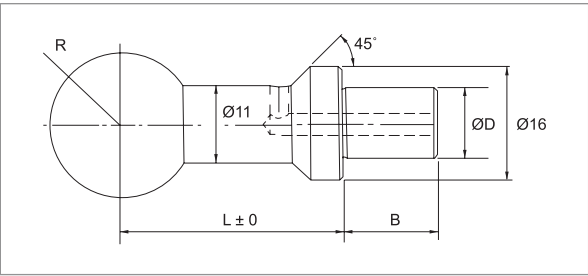
- STRAIGHT SHANK TYPE

INSERT TYPE → WIDIN, WALTER, TAEGU-TEC

Part No.	Dimensions(mm)									
	D	L ₁	d	L	I					
TC-80	D80	22	42	180	95	4	SPMT1204	ST511-43 M5	TX-20	
TC-100	D100									
TC-125	D125									
TC-150	D150									
TC-180	D180									

BALL GAUGE

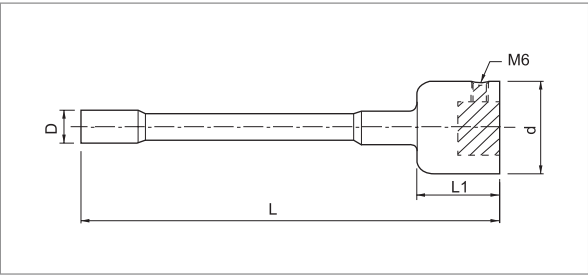
► Ball Gauge



- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)			
	R	D	L	B
BG8004-8	10	8-0.04	20(30)	8
BG8002-8		8-0.02		
BG8000-8		8±0		
BG8002P-8		8+0.02		
BG8004P-8		8+0.04		
BG1004-10		10-0.04		10
BG1002-10		10-0.02		
BG1000-10		10±0		
BG1002P-10		10+0.02		
BG1004P-10		10+0.04		

► Outside Setting Bar

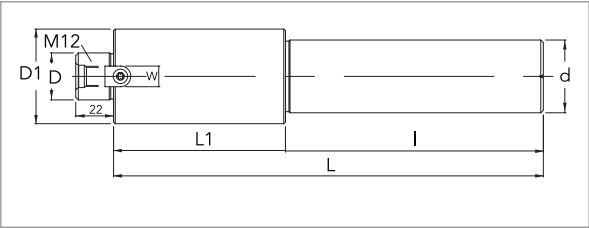


- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)			
	D	d	L	L1
OS-125100	12.5	35	100	30
OS-125150	12.5	35	150	30

POST MEDIUM CUTTING CUTTER

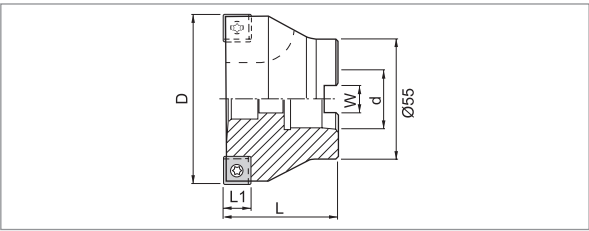
► Medium Cutter Arbor, SSCC Cutter Arbor



- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)						
	D	D1	d	L	L1	I	W
ST42x27x315L	27	55	42	260	110	150	12
ST42x27x365L	27	55		310	160		12
ST42xD63x25.4x250L	25.4	50		200	50		9.5
ST42xD63x25.4x300L	25.4	50		250	100		9.5
ST42xD80x25.4x250L	25.4	65		200	50		9.5
ST42xD80x25.4x300L	25.4	65		250	100		9.5

► Medium Boring Cutter



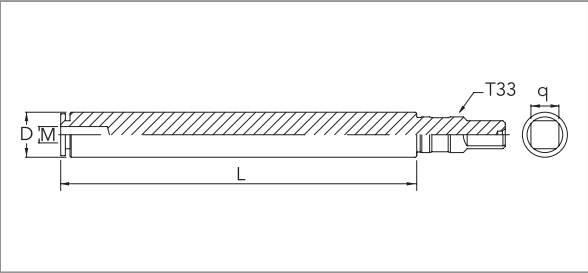
- BORE MOUNTED TYPE

INSERT TYPE → WIDIN, WALTER, TAEGU-TEC

Part No.	Dimensions(mm)						
	D	d	L				
RBC-582755	D58	27	55	12	2	SPMT1204	ST511-43 M5
RBC-632755	D63						
RBC-682755	D68						
RBC-782755	D78						
RBC-882755	D88						
RBC-982755	D98						
RBC-1032755	D103						
RBC-1082755	D108						
RBC-1132755	D113						
RBC-1182755	D118						
RBC-1232755	D123						
MBC-5942755	D59.4						
MBC-6442755	D64.4						
MBC-6942755	D69.4						
MBC-7942755	D79.4						
MBC-8942755	D89.4						
MBC-9942755	D99.4						
MBC-10442755	D104.4						
MBC-10942755	D109.4						
MBC-11942755	D119.4						

QUICK CHANGE COLLET

► Radial Machine Tap, Counter Bore, Reamer Chuck

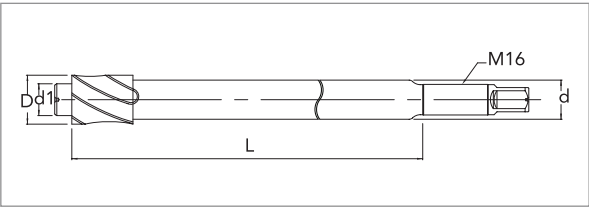


- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)				
	D	M	L	T33	
RTC-19200	19	M6.M8.M10.M12	200	M20	12
RTC-19300	19	M6.M8.M10.M12	300	M20	12
RTC-19400	19	M6.M8.M10.M12	400	M20	12
RTC-31200	31	M16.M20.M24	200	M24	15
RTC-31300	31	M16.M20.M24	300	M24	15
RTC-31400	31	M16.M20.M24	400	M24	15

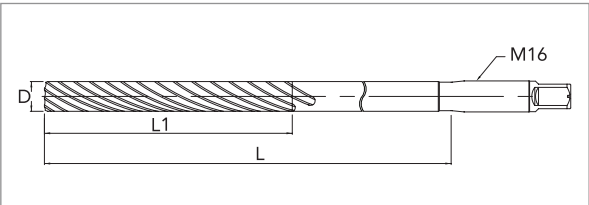
COUNTER BORE, REAMER

► Counter Bore



Part No.	Dimensions(mm)					
	D	d ₁	d	L	Size	M
D14x25xM16x200L	14	9	12	200	M08	M16
D14x25xM16x300L				300		
D14x25xM16x400L				400		
D18x25xM16x200L	18	11	16	200	M10	
D18x25xM16x300L				300		
D18x25xM16x400L				400		
D20x25xM16x200L	20	13		200	M12	
D20x25xM16x300L				300		
D20x25xM16x400L				400		
D27x25xM16x200L	27	17		200	M16	
D27x25xM16x300L				300		
D27x25xM16x400L				400		

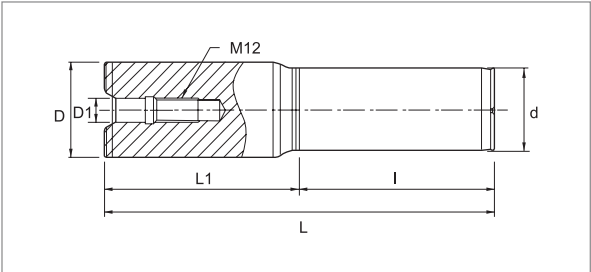
► Helix Reamer



Part No.	Dimensions(mm)				
	D	L ₁	L	Size	M
D06x100xM16x200L	6	100	200	M06	M16
D06x100xM16x300L			300		
D06x100xM16x400L			400		
D08x100xM16x200L	8		200	M08	
D08x100xM16x300L			300		
D08x100xM16x400L			400		
D10x100xM16x200L	10		200	M10	
D10x100xM16x300L			300		
D10x100xM16x400L			400		
D12x100xM16x200L	12		200	M12	
D12x100xM16x300L			300		
D12x100xM16x400L			400		
D16x100xM16x200L	16		200	M16	
D16x100xM16x300L			300		
D16x100xM16x400L			400		

POST MEDIUM CUTTING CUTTER ARBOR

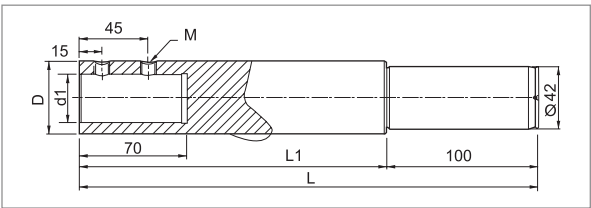
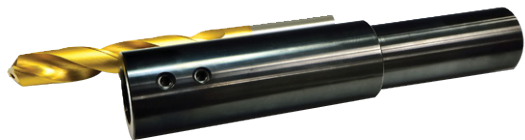
► FPCC-ST Arbor



- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)					
	D	D ₁	d	L	L ₁	I
FPCC-ST42200-50	48	12.5	42	200	100	100
FPCC-ST42250-50				250	150	
FPCC-ST42300-50				300	200	
FPCC-ST42200-63	60	16.5		200	100	
FPCC-ST42250-63				250	150	
FPCC-ST42300-63				300	200	

► Extention Arbor

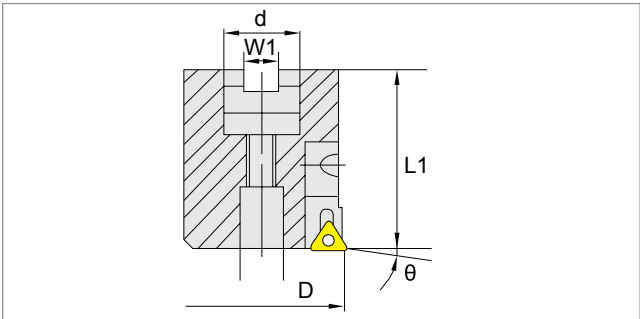


- STRAIGHT SHANK TYPE

Part No.	Dimensions(mm)				
	D	d1	L1	L	M
ST42x25x300L	50	25	300	200	10
ST42x25x400L			400	300	
ST42x32x200L		32	200	100	
ST42x32x300L			300	200	
ST42x32x400L			400	300	
ST42x32x500L			500	400	
ST42x40x200L	63	40	200	100	12
ST42x40x300L			300	200	
ST42x42x200L		42	200	100	
ST42x42x300L			300	200	
ST42x42x400L			400	300	
ST42x42x500L			500	400	

PLUNGE CUTTER

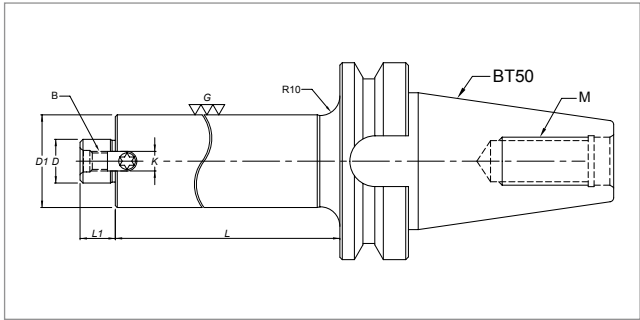
► Plunge Cutter



- BORE MOUNTED TYPE

INSERT TYPE → WIDIN

Part No.	Dimensions(mm)							
	D	L1	d	W1	θ			
PPMF-050-22R	50	65	22	10.4	1°	4	PPMA-013A	TPEN-130302-P TPEN-130302-CBN
PPMF-063-22R	63	65	22	10.4	1°	6		
PPMF-080-27R	80	55	27	12.4	1°	8		

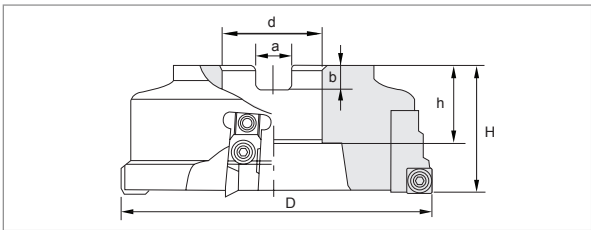
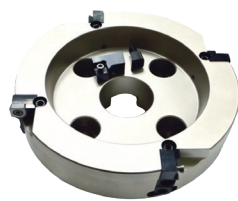


- ARBOR

Part No.	Dimensions(mm)						
	D	D1	L	L1	W	B	M
BT50-PPMT-5022100	22	47	100	18	10	M10	M24
BT50-PPMT-5022150			150				
BT50-PPMT-5022200			200				
BT50-PPMT-5022250			250				
BT50-PPMT-5022300			300				
BT50-PPMT-5022350			350				
BT50-PPMT-5022400			400				
BT50-PPMT-6322100		60	100				
BT50-PPMT-6322150			150				
BT50-PPMT-6322200			200				
BT50-PPMT-6322250			250				
BT50-PPMT-6322300			300				
BT50-PPMT-6322350			350				
BT50-PPMT-6322400			400				
BT50-PPMT-6322450			450				
BT50-PPMT-6322500			500				
BT50-PPMT-6322550			500				

FINISH CUTTER

► M.S. Cutter

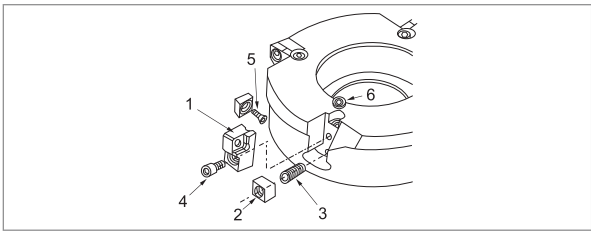


- BORE MOUNTED TYPE

INSERT TYPE → WIDIN

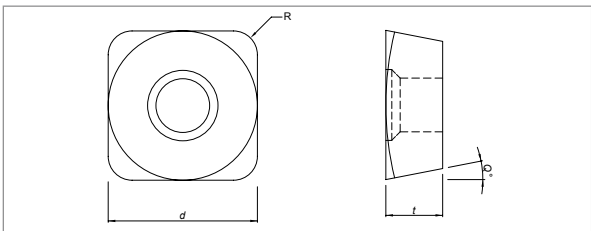
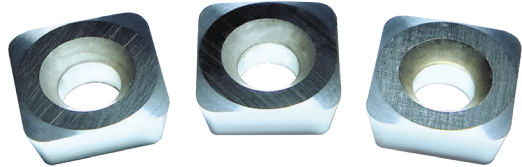
Part No.	Dimensions(mm)					
	D	d	L	a	h	
MSFR-100	100	31.75	65	12.7	32	2
MSFR-125	125	38.1		15.9	38	2
MSFR-160	160	50.8		19.0	38	4
MSFR-200	200	47.625		25.4	38	4

► M.S. Cutter Part



Part No.	Dimensions(mm)					
	1 (Locate)	2 (Adjustment Clamp)	3 (Adjustment Clamp screw)	4 (Locate fix screw)	5 (Insert screw)	6 (Bolt)
Standard	MSFR-1	MSFR-2	MSFR-3	SCM-M5×15	ST511-43 M5	SCM-M5×5

► M.S. Cutter Insert

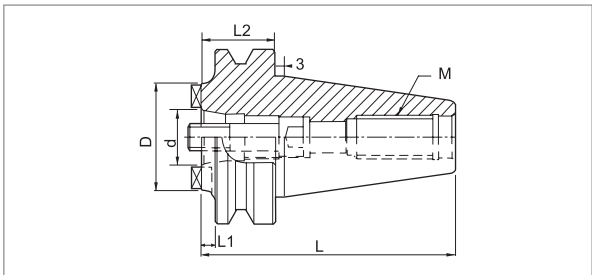


INSERT TYPE → TUNGALOY

Part No.	Dimensions(mm)			
	d	t	R	θ
SPHA435FNW	12.7	4.76	2.0	11°

ARBOR

► BT50-WMA



- Applicable Cutter : Ball Cutter^(689p, 690p, 691p) / Modular Cutter^(698p)—Modular

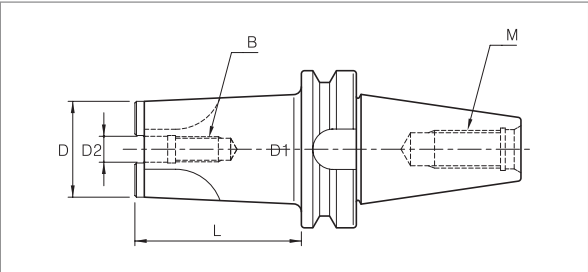
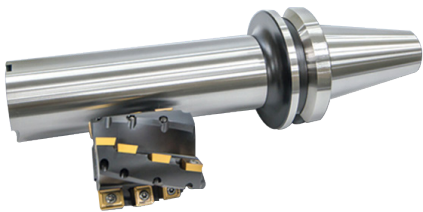
Part No.	Dimensions(mm)						Bolt
	D	L	d	L2	L1	M	
BT50-WMA63040	63	148	32	46	8	M24	M16
BT50-WMA63065		170		68	30		
BT50-WMA63085		190		88	50		
BT50-WMA63115		220		118	80		
BT50-WMA63135		240		138	100		
NT50-WMA63043		153		26	8	1"×8pitch	
NT50-WMA63065		175		48	30		
NT50-WMA63085		195		68	50		
NT50-WMA63115		225		98	80		
NT50-WMA63135		245		118	100		

- Applicable Cutter : Ball Cutter^(689p) / Helical Cutter^(698p)—Modular

Part No.	Dimensions(mm)						Bolt
	D	L	d	L2	L1	M	
BT50-WMA80040	80	150	45	48	10	M24	M20
BT50-WMA80065		170		68	30		
BT50-WMA80085		190		88	50		
BT50-WMA80115		220		118	80		
BT50-WMA80135		240		138	100	1"×8pitch	
NT50-WMA80045		155		28	10		
NT50-WMA80065		175		48	30		
NT50-WMA80085		195		68	50		
NT50-WMA80115		225		98	80		
NT50-WMA80135		245		118	100		

ARBOR

► FPM

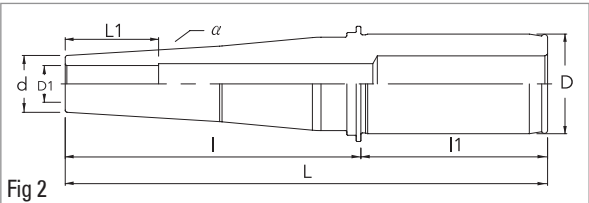
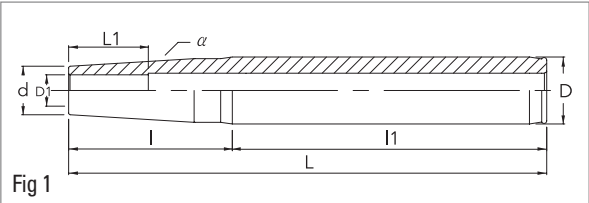


- FPCC–5024, FPCC–5055, FPCC–6334, FPCC–6365 ARBOR

Part No.	Dimensions(mm)					
	D	D1	D2	L	B	M
FPM-NT50-12.5100	48	50	12.5	100	M12	1"x 8pitch
FPM-NT50-12.5150				150		
FPM-NT50-12.5200				200		
FPM-NT50-12.5250				250		
FPM-NT50-12.5300				300		
FPM-NT50-12.5350	60	63	16.5	350	M16	1"x 8pitch
FPM-NT50-12.5400				400		
FPM-NT50-16.5100				100		
FPM-NT50-16.5150				150		
FPM-NT50-16.5200				200		
FPM-NT50-16.5250	48	50	12.5	250	M12	M24
FPM-NT50-16.5300				300		
FPM-NT50-16.5350				350		
FPM-NT50-16.5400				400		
FPM-BT50-12.5100	60	63	16.5	100	M16	M24
FPM-BT50-12.5150				150		
FPM-BT50-12.5200				200		
FPM-BT50-12.5250				250		
FPM-BT50-12.5300				300		
FPM-BT50-12.5350				350		
FPM-BT50-12.5400				400		
FPM-BT50-16.5100				100		
FPM-BT50-16.5150				150		
FPM-BT50-16.5200				200		
FPM-BT50-16.5250				250		
FPM-BT50-16.5300				300		
FPM-BT50-16.5350				350		
FPM-BT50-16.5400				400		
FPM-BT50-16.5450				450		
FPM-BT50-16.5500				500		
FPM-BT50-16.5550				550		
FPM-BT50-16.5600				600		
FPM-BT50-16.5650				650		
FPM-BT50-16.5700				700		

SHRINK FIT CHUCK

► Shrink Fit Chuck

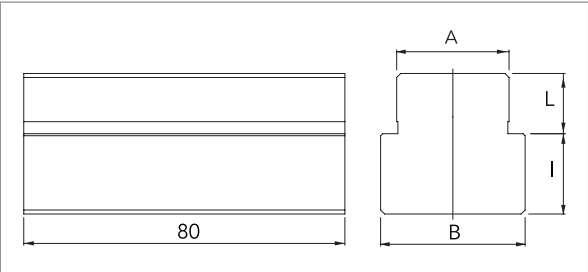


- STRAIGHT SHANK TYPE

Part No.	D	D1	d	α°	L	L1	I	II	Fig
SL20-D06x185L	20	6	12	3° 30"	185	20	77	108	1
SL20-D08x185L	20	8	14			25	58	127	
SL20-D10x185L	20	10	16			30	38	147	
SL25-D12x185L	25	12	18			30	67	118	
SL32-D16x185L	32	16	25			40	100	85	
SC20-D06x185L	20	6	9.5			20	86	99	
SC20-D08x185L	20	8	11.5			25	70	115	
SC20-D10x185L	20	10	13.5			30	55	130	
SC25-D12x185L	25	12	15.5			30	80	105	
SC32-D16x185L	32	16	19.5			40	103	82	
ML32-D06x90S	32	6	12		150	20	90	60	2
ML32-D08x90S	32	8	14			25	90	60	
ML32-D10x90S	32	10	16			30	90	60	
ML32-D12x90S	32	12	18			30	90	60	
ML32-D16x90S	32	16	22			40	90	60	
MC32-D06x55S	32	6	12		115	20	55	60	
MC32-D08x55S	32	8	14			25	55	60	
MC32-D10x55S	32	10	16			30	55	60	
MC32-D12x55S	32	12	18			30	55	60	
MC32-D16x55S	32	16	22			40	55	60	
MC32-D06x45S	32	6	12		105	20	45	60	
MC32-D08x45S	32	8	14			25	45	60	
MC32-D10x45S	32	10	16			30	45	60	
MC32-D12x45S	32	12	18			30	45	60	
MC32-D16x45S	32	16	22			40	45	60	

BLOCK

► Setting Block



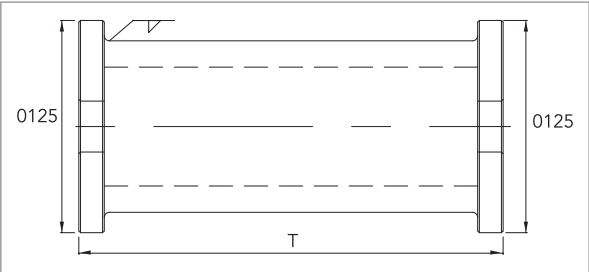
- BLOCK - SETTING BLOCK

Part No.	Dimensions(mm)			
	A(Machine side)	B(Product side)	L	I
KB-2225	22	25	23	18
KB-22254		25.4		
KB-22275		27.5		
KB-2228		28		
KB-2230		30		
KB-2232		32		
KB-2236		36		
KB-2238		38		
KB-2425	24	25		
KB-24254		25.4		
KB-24275		27.5		
KB-2428		28		
KB-2430		30		
KB-2432		32		
KB-2436		36		
KB-2438		38		
KB-2825	28	25		
KB-28254		25.4		
KB-28275		27.5		
KB-2828		28		
KB-2830		30		
KB-2832		32		
KB-2836		36		
KB-2838		38		

※ L, I sizes can be changeable on customer's request

BLOCK

► Setting Block



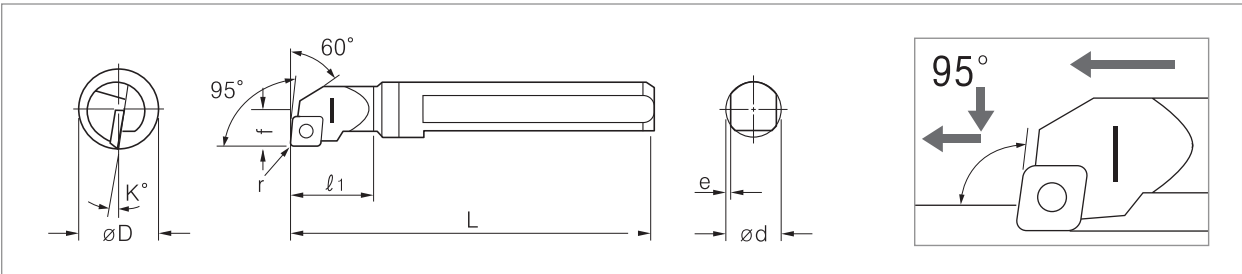
- BLOCK - SETTING BLOCK

Part No.	Dimensions(mm)	B(Product side)
	T	
PB-100	100	25
PB-150	150	
PB-200	200	
PB-250	250	
PB-300	300	
PB-350	350	
PB-400	400	

BORING BAR

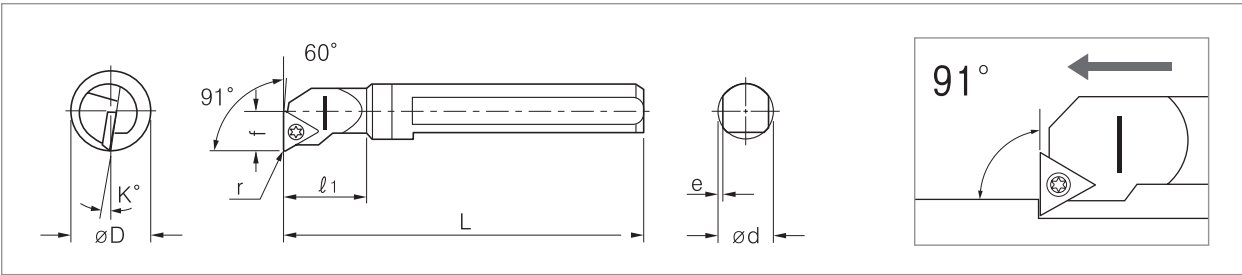
MEMO

► SCLC



Part No.	Stock	Range of application		SIZE(mm)						D	R		
	R			d	L	I1	F	E	K°				
C08HSCLCR06	•	CCMW CCMT CCGW	0602○○	8	100	12	6	0.5	15	11	0.4	TS25	TX08
C10KSCLCR06	•			10	125	16	7	0.5	13	13	0.4		
C12MSCLCR06	•			12	150	20	9	0.5	10	16	0.4		
C16RSCLCR06	•		09T3○○	16	200	25	11	1	7	20	0.8	TS4	TX15
C20SSCLCR06	•			20	250	32	13	1	7	25	0.8		

► STFC



Part No.	Stock	Range of application		SIZE(mm)						D	R		
	R			d	L	I1	F	E	K°				
C08HSTFCR09	•	TCMW TCMT	0902○○	8	100	12	6	0.5	15	11	0.4	TS22	TX06
C10KSTFCR11	•		1102○○	10	125	16	7	0.5	13	13	0.4		
C12MSTFCR11	•			12	150	20	9	0.5	10	16	0.4	TS25	TX08
C16RSTFCR11	•			16	200	25	11	1	7	20	0.4		
C20SSTFCR16	•		16T3○○	20	200	32	13	1	7	25	0.8	TS4	TX15
C25TSFCR16	•			25	250	40	17	1	5	32	0.8		