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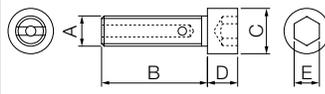
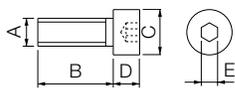
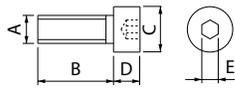
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Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes
				A	B	C	D	E	F	α	θ		
mm		AJ -3110	●	M3X0.35	6.0	6.5	4.0	2.0	-	-	-	-	
		AJ -519TR	●	M5X0.8	19.0	10.0	-	T15	-	-	40°	-	
		BH 3X6	△	M3X0.5	6.0	-	2.0	2.0	-	-	-	-	
		BH 3X12	●	M3X0.5	12.0	-	2.0	2.0	-	-	-	-	
		BH 6X25	●	M6X1.0	25.0	-	4.0	4.0	-	-	-	-	
		BH 4X8TR	●	M4X0.7	8.5	6.2	3.0	T15	-	-	-	3.5	
		BH 6X10TR	●	M6X1.0	10.0	12.0	5.0	T25	-	-	-	6.5	
		CP 8X23TL	●	M8X1.25	23.0	15.0	-	T25	-	-	-	6.0	L... shows Left-hand thread
		CS -2D	●	M4X0.7	21.5	6.4	3.5	2.5	2.0	-	-	1.7	
		CS -3D	●	M5X0.8	22.0	8.0	4.0	3.0	2.5	-	-	3.9	
CS -5D		●	M5X0.8	28.0	8.0	4.0	3.0	2.5	-	-	3.0		
	CS -3D-TR	●	M5X0.8	22.0	8.0	4.0	T15	T15	-	-	3.9		
	GS -50	●	M5X0.8	13.0	7.5	-	3.0	-	-	82°	-		
	HF 16X40HA	●											
	HF 20X53HA	●	M20X2.5	33.0	50.0	20.0	14.0	14.0	-	-	-	With Coolant Hole	
	HF 24X60H	●	M24X3.0	40.5	65.0	19.5	17.0						
	HF 0500X35HC	●	1/2-20 UNF	1.378	1.673	0.646	0.313	0.709					
	HF 0625X44HC	●	5/8-18 UNF	0.790	2.461	0.724	0.313	1.575	-	-	-	With Coolant Hole	
	HF 0625X48HC	●	5/8-18 UNF	0.790	2.461	0.567	0.313	1.575					
mm		HF 12X35HC	●	M12X1.75	35.0	42.5	16.4	8.0	18.0				With Coolant Hole
		HF 16X48HC	●	M16X2.0	30.0	62.5	18.4	12.0	40.0				

P
SPARE PARTS

Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes
				A	B	C	D	E	F	α	θ		
Inch		HH 3/8-1.25H	●	3/8-24 UNF	1.250	0.550	0.375	0.312	-	-	-	-	With Coolant Hole
		1/2-1.25H	●	1/2-20 UNF		0.750	0.500	0.375					
		3/4-2.3H	●	3/4-16 UNF	1.500	1.120	0.750	0.625					
		HH 1/4-0.75	●	1/4-28 UNF	0.750	0.375	0.250	0.188	-	-	-	-	
		3/8-1.25	●	3/8-24 UNF	1.250	0.550	0.375	0.312					
		1/2-1.25	●	1/2-20 UNF	1.250	0.750	0.500	0.375					
mm		HH 3X6	●	M3X0.5	6.0	5.5	3.0	2.5	-	-	-	-	
		3X10S	●		10.0	5.0							
		3X12	●		12.0	5.5							
		HH 3.5X10S	●	M3.5X0.6	10.0	5.5	3.0	2.5	-	-	-		
		HH 4X12S	●	M4X0.7	12.0	7.0	4.0	3.0	-	-	-		
					16.0								
		HH 5X12	●	M5X0.8	12.0	8.5	5.0	4.0	-	-	-		
					15.0								
					16.0								
					20.0								
					25.0								
					30.0								
		HH 6X12	●	M6X1.0	12.0	10.0	6.0	5.0	-	-	-		
					18.0								
					20.0								
					25.0								
					30.0								
		HH 8X20	●	M8X1.25	20.0	13.0	8.0	6.0	-	-	-		
					25.0								
		HH 10X30	●	M10X1.5	30.0	16.0	10.0	8.0	-	-	-		
					40.0								
		HH 12X35	●	M12X1.75	35.0	18.0	12.0	10.0	-	-	-		
					40.0								
		HH 16X40	●	M16X2.0	40.0	24.0	16.0	14.0	-	-	-		
45.0													
HH 20X40	●	M20X2.5	40.0	30.0	20.0	17.0	-	-	-				
			55.0										

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

● : Standard Item △ : Phaseout Item (will be removed from next catalog)
 Contact your local Kyocera sales engineer to upgrade old products to new technology

Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes	
				A	B	C	D	E	F	α	θ			
mm		HH 4X12	●	M4X0.7	10.0	7.0	4.0	3.0	2.0	-	-	-		
		HH 10X30H	●	M10X1.5	30.0	16.0	10.0	6.0	-	-	-	-	With coolant hole	
		HH 10X35HK	●	M10X1.5	35.0									
		HH 12X35H	●	M12X1.75	35.0	18.0	12.0	8.0						
		HS 3X3P	△	M3X0.5	2.9	-	-	1.5	-	-	-	1.0	HS4X4P and HS6X4P have a flat edge Clamp Screw equivalent to JIS B-1177	
		HS 3X4P	●	M3X0.5	3.9									
		HS 3X4	●	M3X0.5	4.0									
		HS 4X4P	●	M4X0.7	3.9	-	-	2.0	-	-	-	2.0		
		HS 4X4	●	M4X0.7	4.0									
		HS 5X5	●	M5X0.8	5.0	-	-	2.5	-	-	-	3.0		
		HS 6X4P	●	M6X0.75	3.9									
		HS 6X6	●	M6X1.0	6.0	-	-	3.0	-	-	-	4.0		
		HS 6X14	●	M6X1.0	14.0									
		HS 6X22	●	M6X1.0	22.0									
	HS 10X10	●	M10X1.5	10.0	-	-	5.0	-	-	-	-	-		
HS 12X25	●	M12X1.75	25.0	-	-	6.0	-	-	-	-	-			
	HS 5X4LP	●	M5X0.8	4.0	-	-	2.5	-	-	-	-			
	HS -2524TRP	●	M2.5X0.35	2.4	-	-	5IP	-	-	-	0.5	IP shows Torx Plus		
	HS -2534TRP	●		3.4										
	HS -3048TRP	●	M3X0.5	4.8									6IP	0.8
	HS -4067TRP	●	M4X0.7	6.7									7IP	1.2
	HS -50100TRP	●	M5X0.8	10	6.0	-	15IP	-	-	-	3.5	IP shows Torx Plus		

Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes	
				A	B	C	D	E	F	α	θ			
mm		HSB 4X8%	●	M4X0.7	8.0	R2.0	-	2.0	-	-	-	2.0	R... shows Right-hand thread L... shows Left-hand thread	
		LS -03N	●	M5X0.8	9.7	M5X0.8	-	2.0	-	-	-	2.0	N: Silver coated	
		-03SN	●		12.0			2.5				3.0		
		LS -05	●	M5X0.8	15.5	M5X0.8	-	2.0	2.0	-	-	2.0		
		LS	-1N	M6X1.0	17.0	6.0	-	2.5	2.5	-	-	3.0	N: Silver coated	
			-1SN		14.2									
			-1T		21.0									
			-2N	M8X1.0	20.0	8.0	-	3.0	3.0	-	-	4.0		
			-3		22.0									
		-4N	24.0											
		-5	M10X1.0	29.0	10.0	-	4.0	4.0	-	-	-			
		LS	-1P	M6X1.0	16.5	6.0	-	10IP	10IP	-	-	2.0	IP shows Torx Plus	
			-2P	M8X1.0	18.2	8.0		15IP	15IP			3.5		
			-3P		21.8									
		LS	-11	M6X1.0	9.5	-	-	3.0	-	-	-	-		
	-15		12.5											
	M	3X8	M3X0.5	8.0	5.5	2.0	-	-	-	-	-	Flat fillister head screw equivalent to JIS B-1101		
		3X12		12.0										
		4X10	M4X0.7	10.0	7.0	2.6								
	SB	-1TR	M2X0.4	5.3	3.8	-	-	-	-	82°	T6	0.5	R... shows right-hand thread	
		-2TR	M2.5X0.45	6.2	4.5						T8	1.2		
		-3TR		M3X0.5	7.2						4.8	T10		2.0
		-35TR	6.4		5.2						T15	3.5		
		-3.5TR	M3.5X0.6	9.3	5.6									
		-4TR	M4X0.7	7.7	5.8									T20	4.5
		-5TR	M5X0.8	20.0	8.7						T6	90°		0.5
		-2290TR	M2.2X0.45	9.2	2.8									T7	0.8
		-25100TR	M2.5X0.45	10.0	3.5						T15	60°		3.5
		-40115TR	M4X0.7	11.5	5.5									
		-5070TR	M5X0.8	7.0	6.8									T20	4.5
		-5090TR		9.0										
		-50120TR		12.0										

Reference

Torx and Torx Plus have different cross-sections.



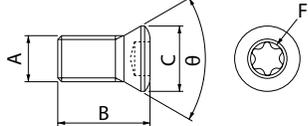
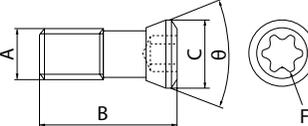
Torx



Torx Plus

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes														
				A	B	C	D	E	F	α	θ																
mm	  SB-40125TRN	SB -15TR	●	M2X0.4	5.0	3.1					T6	60°	0.5	R... shows right-hand thread L... shows left-hand thread IP shows Torx Plus													
		SB -1635TR	●	M1.6X0.35	3.3	2.6																					
		SB -1840TRP	●	M1.8X0.35	4.0	2.5						6IP			55°												
		SB -2035TR	●	M2X0.4	3.7	3.0						T6			60°												
		SB -2035TRG	●		3.5	2.7																					
		SB -2037TRP	●		3.7										6IP	55°											
		SB -2040TR	●		3.8	3.0									T6	60°											
		SB -2040TRG	●		4.0																						
		SB -2041TRP	●		4.1	2.7									6IP												
		SB -2042TRG	●																								
		SB -2045TR	●		4.3	2.8									T6	37°											
		SB -2045TRN	●																								
		SB -2050TR	●		4.8	3.0																					
		SB -2060TR	●	5.8	3.5							T8			60°	1.2											
		SB -2080TR	●	8.3	2.8							T6				0.5											
		SB -2250TR	●	M2.2X0.45	5.1	3.1										60°	0.8										
		SB -2255TR	●		5.5	3.5																					
		SB -2260TR	●		5.8	3.1																					
		SB -2270T%L	●		6.8	3.2																					
		SB -2545TR	●	M2.5X0.45	4.6	3.5	-	-	-	-	-	-			T8	60°	1.2										
		SB -2555TRG	●		5.4																						
		SB -2555TRP	●		5.5								8IP														
		SB -2560TR	●		5.7								T8														
		SB -2570TR	●	6.8																							
		SB -3060TR	●	M3X0.5	5.3	4.2	-	-	-	-	-	-	T10		60°	2.0											
		SB -3060TRP	●		6.0								10IP														
		SB -3065TRP	●		6.5	4.0							8IP														
		SB -3070TRG	●		7.0	4.2							T10														
		SB -3070T%L	●			4.0							T8														
		SB -3070TRP	●			4.2																					
		SB -3076TRP	●		7.6	3.9							10IP				55°	2.0									
		SB -3080TR	●		8.0	4.2							T10				60°										
		SB -3573TRP	●		M3.5X0.6	7.3							5.0										60°	2.0			
		SB -3575TRP	●			7.5							4.9														
		SB -3580TR	●	8.0		5.3																					
		SB -3590TRP	●	9.0			15IP																				
		SB -3592TR	●	9.2			5.1	T10																			
		SB -35120TRP	●	12.0			5.2	15IP																			
		SB -4050TRN	●	M4X0.5	4.6	5.1									57°	2.0											
		SB -4065TR	●	M4X0.7	6.7	5.5	-	-	-	-	-	-	T15		60°	3.5											
		SB -4070TRG	●		7.0																						
		SB -4070TRN	●		7.7	5.4																					
		SB -4070TRS	●		6.7												T10		2.0								
		SB -4075TRP	●		7.5												15IP		3.5								
		SB -4082TPR	●		8.2	5.5																					
		SB -4085TR	●		8.5													T15									
		SB -4085TRP	●																								
		SB -4086TRP	●		8.6													15IP									
		SB -4090TRP	●		9.0	5.7																					
		SB -4090TRPN	●			5.5																					
		SB -40104TRP	●	10.4	5.7																						
		SB -40120TR	●	12.0	5.1																						
		SB -40125TRN	●	12.5	5.2	-	-	-	-	-	-	-	-		-	50°											
		SB -40140TR	●																							60°	
		SB -40140TRN	●													14.0	6.7										75°
		SB -44865UTRP	●													UNF No. 4-48	6.5	3.8	-	-	-	-	-	-	-	-	60°	1.2
		SB -44880UTRP	●	8.0																							
		SB -4570TRN	●	M4.5X0.5	6.8	6.0										57°	2.0										
		SB -45130TR	●	M4.5X0.75	13.0	6.6										55°	4.5										
		SB -5085TR	●	M5X0.8	8.5	6.8	-	-	-	-	-	-	T20		60°	50°	4.5										
		SB -50110TRP	●		11.0													7.0									
		SB -50120TRP	●		12.0	6.8																					
		SB -50120TRPH	●																								
		SB -50120TRS	●													7.2											3.5
		SB -50140TR	●										14.0			7.3											
		SB -50140TRP	●																								4.2
		SB -60120TR	●		M6X1.0	12.0							8.5			-		-	-	-	-	-	-	-	60°	6.0	
		SB -60130TRP	●		13.0		20IP			4.5																	
		SB -60200TRP	●		20.0				6.0																		
		SB -4070TRW	●	M4X0.7	6.7	5.5										60°	1.2	R... shows right-hand thread									
		SB -4590TRWN	●	M4.5X0.75	9.3	5.6										57°	2.0										

P
SPARE PARTS

Screw / Bolts

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Torque (N-m)	Notes
				A	B	C	D	E	F	α	θ		
mm		SC -30067	●	M3X0.35	6.7	4.4				T8	60°	1.2	
		-35085	●	M3.5X0.35	8.5	5.7				T10	60°	2.0	
		-40100	●	M4X0.5	10.0	6.0				T15	40°	3.5	
		-50130	●	M5X0.5	13.0	6.6				T20	40°	4.5	
		-60160	●	M6X0.75	16.0	8.0				T25	40°	6.0	
		-60210	●	M6X0.75	21.0	9.6				T30	40°	8.0	
		SCR -01	●	M2.5X0.45	6.6	3.6				T7	60°	0.8	
		-03	●	M3X0.5	8.4	4.6				T9	60°	1.6	
		-04	●	M2.5X0.45	4.6	3.6				T7	60°	0.8	
		-05	●	M2.5X0.45	4.6	3.6				T7	60°	0.8	
		-16	●	M3.5X0.6	6.9	5.0				T10	60°	2.0	
		-30	●	M3.5X0.6	8.9	5.0				T10	60°	2.0	
		SE -3070TRP	△	M3X0.5	7.0	4.3				9IP	43°	1.7	IP shows Torx Plus
		-40050TRN	△	M3X0.5	5.0	4.3				9IP	43°	1.7	
		-40055TR	△	M3X0.5	5.5	4.3				9IP	43°	1.7	
		-40068TR	●	M4X0.7	6.8	5.0				T15	44°	3.5	
		-40080TR	△	M4X0.7	8.0	5.0				T15	44°	3.5	
		-40090TR	●	M4X0.7	9.0	5.0				T15	44°	3.5	
		-40100TR	●	M4X0.7	10.0	5.0				T15	44°	3.5	
		SE -40120TR	●	M4X0.7	12.0	5.6				T15	60°	3.5	
-50125TR		●	M5X0.8	12.5	6.8				T20	60°	4.5		
	SP 3X6	●	M3X0.5	6.0	6.0					90°	-	Cross recessed flat head screw equivalent to JIS...B-1111	
	3X8	●	M3X0.5	8.0	6.0					90°	-		
	3X10	●	M3X0.5	10.0	6.0					90°	-		
	SP 4X9	●	M4X0.7	9.0	5.6		2.0			90°	-		
	8X35	●	M8X1.25	35.0	11.0	4.4	5.0			90°	-		
	SPW -5035	●	M5X0.5	7.0	6.3	M3.5X0.6	3.5			-	-	A shows External, D shows Internal. External and Internal threads are both Right-hand threads.	
	-6045	●	M6X0.75	9.0	7.5	M4.5X0.75	4.5			-	-		
	-7050	●	M7X0.75	9.0	8.8	M5X0.8	5.0			-	-		
	SS -4N	●	M5.5X0.5	8.5	6.6	M4X0.7	4.0			-	-		
	-60136TR	●	M6X1.0	13.6	6.3				T20	6°	4.5		Torx
	TH 8X15	●	M8X1.25	20.0	8.5		4.0			-	-		
	6X17	●	M6X1.0	17.0					T20	-	4.5		
	W 6X18N	●	M6X1.0	18.0					T15	-	3.5		
	6X20	●	M6X1.0	20.5			3.0			-	-		
	W 8X18	●	M8X1.25	18.0			4.0			-	-		
	10X31	●	M10X1.0	31.0	M10X1.5		5.0			-	-		
inch		XNS 610	●	3/8-24UNF	1.250	0.500		0.188			-	-	Differential screw

* No socket on right-hand thread side
 ● : Standard Item △ : Phaseout Item (will be removed from next catalog)
 Contact your local Kyocera sales engineer to upgrade old products to new technology

INSERT GRADES	A
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TURNING HOLDERS	D
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BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
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Pins

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		LL -03N	●	7.8	6.3							
		-03SN	●	11.1	8.9	-	-	-	-	-	-	
		-03TN	●	8.3	8.9							
		LL -05C	●	10.7	11.7						12°	
		-1CN	●	13.0	13.3	-	-	-	-	-	14°	
		-2C	●	18.8	17.6						14°	
		LL -1K	●	10.0	12.0							
		-1N	●	10.3	12.0							
		-1DN	●	12.3	12.0							
		-2K	●	13.3	13.2							
		-2N	●	13.5	13.0							
		-3K	●	16.0	14.8	-	-	-	-	-	-	
		-3N	●	16.4	13.0							
		-4N	●	16.4	14.7							
		-5N	●	17.1	16.7							
-6		●	20.7	21.0								
	LP -2S	●	3.65	20.0	-	-	-	-	-	-		
	-6S	●	3.65	25.0	-	-	-	-	-	-		
	LPA -11	●		11.0								
	-13	●	2.8	13.0	4.2	-	-	-	-	60°		
	-17	●		17.0								
	LPF -11	●		11.0								
	-1113	●	2.5	13.0	3.5	-	-	-	-	60°		
	-1117	●		17.0								
	-13	●	3.8	13.0	5.5	-	-	-	-			
-17	●		17.0									
	PP -4	●	4.6	14.0	5.5	-	3.0	-	-	-		
	TS -3S	●	M5X0.8	15.0	3.60	-	2.0	-	-	-		
	WP -1S	●	M5X0.8	18.0	3.65	-	-	-	-	-		
	5X15	●		15.0	5.0							
	WP 5X11	●	M5X0.8	10.5	5.0	-	2.0	-	-	-		
	LSP -1	●	5.0	5.3								
	-2	●	6.5	5.6								
	-3	●	8.25	7.9								
	-4	●	9.5	10.0								
	LSP -2K	●	5.1	5.2								
-3K	●	6.7	5.7									
	P -03	●	2.8	1.95	-	-	-	-	-	-		
	-03S	●	3.5	1.95	-	-	-	-	-	-		

P
SPARE PARTS

Shims

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		DC -42	●	12.0	3.2	1.2	6.0	4.4	R1.2	-	-	Shim Screw: SB-4085TR
	DC -44	●	12.55	5.0	1.5	R0.8						
		DC -44-C	●	12.55	5.0	1.5	6.0	4.4	-	-	-	Shim Screw: SB-4085TR
		DD -42	●	12.55	3.2	1.2	6.0	4.4	R1.2	-	-	Shim Screw: SB-4085TR
	DD -42-16	●	3.4		1.3	R1.6						
	DD -43	●	5.0		1.5	R0.8						
	DD -44	●										
		DS -42	●	12.0	3.2	1.2	6.0	4.4	R1.2	-	-	Shim Screw: SB-4085TR
	DS -44	●	12.55	5.0	1.5	R0.8						
		DT -32	●	8.63	3.2	0.95	5.0	3.4	R1.6	3°	-	Shim Screw: SB-3080TR
	DT -42	●	12.46	1.2		6.0	4.4	R1.2	-	Shim Screw: SB-4085TR		
		DV -33	●	9.40	3.5	1.2	6.0	4.4	R1.0	-	-	Shim Screw: SB-4085TR
		DW -42	●	11.5	3.2	1.2	6.0	4.4	R1.2	4°	-	Shim Screw: SB-4085TR
	DW -44	●	12.65	5.0	1.5	R0.8			-			
	556 C%	●	34.0	10.0	12.7	5.6	5.0	R1.6	0°	55°	R...shows Right-hand L...shows Left-hand Shim Screw: HH5X16	
	KPS -42	●	11.5	3.2	2.0	7.2	3.2	C1.0	7°	-	Shim Screw: SP3X8	
	KPT -32	●	8.0	3.2	1.9	7.0	3.2	R0.4	11°	-	Shim Screw: SP3X8	
KPT -42	●	10.5	3.2	1.9	7.0	3.2	R0.8	11°	-	SP3X10		
	KVN -32	●	9.52	3.2	2.1	7.6	5.5	R0.8	-	-	Lock pin: LP-2S LP-6S	
	LC -32N	●	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim pin: LSP-1	
LC -42N	●	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim pin: LSP-2		
LC -53N	●	15.9	4.8	1.7	10.0	8.0	R1.2	-	-	Shim pin: LSP-3		
LC -63	△	19.0	4.8	2.0	11.61	9.3	R1.6	-	-	Shim pin: LSP-4		

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Shims

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes	
				A	B	C	D	E	F	α	θ		
mm		-42N-C	●	12.65	3.2	1.5	8.01	6.28	-	-	-	Shim pin: LSP-2	
		-53N-C	●	15.9	4.8	1.7	10.0	8.0	-	-	-	Shim pin: LSP-3	
		-63-C	△	19.0	4.8	2.0	11.61	9.3	-	-	-	Shim pin: LSP-4	
		-42N%	●	12.65	3.2	1.5	8.01	6.28	R0.8	10°	-	R... shows right-hand L... shows left-hand Shim pin: LSP-2	
		-32N	●	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim pin: LSP-1	
		-4K43	●	11.7	4.8	3.0	8.3	6.60	R1.2	-	-	Shim pin: LSP-3K	
		-42	●	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	-	Shim pin: LSP-2
		-42-20	●						R2.0				
		-43	●	12.65	4.8	3.1	8.5	6.28	R0.8	-	-	-	-
		-80	●	9.47	3.2	1.3	6.25	4.75	-	-	-	Shim pin: LSP-1	
		-81	●	12.65	3.2	1.5	8.01	6.28	-	-	-	Shim pin: LSP-2	
		-10C	●	8.5	3.2	6.3	6.3	4.7	-	-	-	Shim pin: LSP-1	
		-12C	●	10.0	3.2	6.3	6.3	4.7	-	-	-	Shim pin: LSP-2	
		-16C	●	13.6	3.2	7.9	8.01	6.28	-	-	-	Shim pin: LSP-2	
		-32	●	9.47	3.2	1.3	6.18	4.68	R0.8	-	-	Shim pin: LSP-1	
		-42	●	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim pin: LSP-2	
		-3K	●	8.53	2.7	1.0	6.1	5.13	R0.8	-	-	Shim pin: LSP-2K	
		-32N	●	9.47	2.7	1.3	6.18	4.68	R0.8	-	-	Shim pin: LSP-1	
		-42N	●	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim pin: LSP-2	
		-32N	●	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim pin: LSP-1	
-42N		●	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim pin: LSP-2		
	-42N%	●	12.65	3.2	1.5	8.01	6.28	R0.8	10°	-	R... shows right-hand L... shows left-hand shim pin: LSP-2		
	-45	●	17.07	3.5	1.95	9.8	7.18	R3.5	-	-	Shim Screw: SPW-7050		
	-105	●	10.5	3.0	1.4	7.0	5.3	-	7°	45°			
	-90	●	15.25	4.0	2.5	9.44	7.25	R3.0 R4.0	-	-	Shim Screw: SPW-7050		
	-42	●	10.7	3.2	1.85	7.0	3.3	-	20°	45°	Shim Screw: SP3X8		
	-4245S	●	10.3	3.2	2.0	6.0	5.0	-	20°	45°	Shim Screw: SP4X9		
	-4215	●	10.53	3.2	1.5	6.4	3.4	-	25°	15°	Shim Screw: SP3X8		
	-4245	●	10.53	3.2	1.5	6.4	3.4	-	25°	45°	Shim Screw: SP3X8		

P
SPARE PARTS

Shims

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		MS0 -4T245	●	10.0	2.0	4.7	6.4	4.8	-	27°	45°	Shim Screw: SP3X6
		MS0 -5200	●	12.6	3.18	1.8	8.27	6.66	R0.8	15°	-	Shim Screw: SPW-6045
		MSP -42	●	11.3	3.2	1.85	7.0	3.3	-	15°	15°	Shim Screw: SP3X8
		MTE -42	●	9.8	3.2	-	6.4	3.4	-	25°	-	Shim Screw: SP3X8
		MVN -32	●	9.52	3.2	2.1	7.4	6.5	R0.8	-	-	Lock pin: TS-3S
		PD -42	●	12.7	3.2	1.7	6.0	8.4	0.8	12°	-	Shim Screw: SB-2050TR
		SP -129	●	9.52	9.52	R0.8	R1.6	R1.2	R1.6	-	-	Shim Screw: HH3X12
		SP -141	●	12.7	4.0	2.4	6.2	3.3	R1.2	-	-	Shim Screw: M3X8
		SP -143	●	12.7	7.2	2.4	6.2	3.3	R1.2	-	-	Shim Screw: M3X12
		SP -162	●	15.8	6.0	3.4	8.0	4.4	R1.5	-	-	Shim Screw: M4X10
		SP -148	●	12.7	8.8	2.4	6.2	3.3	R1.2	-	-	Shim Screw: BH3X12
		SP -219	●	6.35	9.52	R0.8	R1.2	R1.6	-	-	-	Shim Screw: HH3X12
		SP -221	●	9.52	4.0	2.5	6.5	3.5	R1.2	-	-	Shim Screw: M3X8
		SP -223	●	9.52	7.2	2.5	6.5	3.5	R1.2	-	-	Shim Screw: M3X12
		SP -342	●	12.7	6.0	2.5	6.5	3.5	R1.2	-	75°	Shim Screw: M3X8
SP -441		●	12.7	4.0	2.5	6.2	3.3	R0.8	-	80°	Shim Screw: M3X8	
SP -443		●	12.7	7.2	2.5	6.2	3.3	R0.8	-	80°	Shim Screw: M3X12	
SP -454		●	15.7	8.0	3.4	8.0	4.5	R1.6	-	80°	Shim Screw: M4X10	

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Shims

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		SP -429	●	9.52	9.52	-	-	-	R1.2	-	-	Shim Screw : HH3X12
		SP -521	●	10.0	4.0	2.5	6.2	3.3	R1.0	-	-	Shim Screw : M3X8
		SP -826	●	9.52	7.9	-	-	-	-	-	-	Shim Screw : HH3X12
		-829	●	9.52	9.52	-	-	-	-	-	-	
		SP -841	●	12.7	4.0	2.4	6.2	3.3	-	-	-	Shim Screw : M3X8
		-843	●	12.7	7.2	2.4	6.2	3.3	-	-	-	Shim Screw : M3X12
		-849	●	12.7	8.8	2.4	6.2	3.3	-	-	-	Shim Screw : BH3X12
		-861	●	15.8	6.0	3.4	8.0	4.4	-	-	-	Shim Screw : M4X10
		SP -130A	●	9.52	3.2	-	R0.4	R0.8	R1.2	8°	-	Shim Screw : BH3X12
		SP -210A	△	6.35	3.2	R0.4	R0.8	R1.2	-	8°	-	Shim Screw : BH3X6
		SP -420A	●	9.52	3.2	-	-	R0.8	R1.2	8°	-	Shim Screw : BH3X6
		SP -141P	●	12.7	4.0	2.4	6.2	3.3	R1.2	7°	-	Shim Screw : M3X8
	-143P	●	12.7	7.2	2.4	6.2	3.3	R1.2	7°	-	Shim Screw : M3X12	
	SP -230P	●	8.3	3.2	2.0	7.2	3.2	R0.5	7°	-	Shim Screw : SP3X10	
	SP -341P	●	12.6	4.0	2.5	6.5	3.5	R1.2	7°	-	Shim Screw : M3X8	
	SP -441P	●	12.7	4.0	2.5	6.2	3.3	R1.2	11°	-	Shim Screw : M3X8	
	SP -521P	●	10.0	4.0	2.5	6.2	3.3	R1.2	11°	-	Shim Screw : M3X8	

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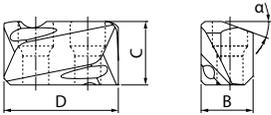
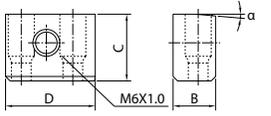
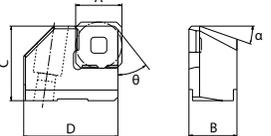
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Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		SP -RC	●	12.6	3.0	-	7.35	3.35	-	-	-	Shim Screw: SP3X8
		SVN -32	●	8.0	3.2	1.5	3.1	2.3	R0.4	-	-	Shim Screw: SB-2050TR
		SVN -32N	●	8.2	3.2	1.5	7.0	5.9	R0.6	-	-	Shim Screw: SS-4N
		SVN -32S	●	8.2	3.2	1.5	7.0	5.9	R0.2	-	-	Shim Screw: SS-4N 1-edge
		TN -32	●	9.52	3.2	6.5	7.0	4.2	R0.4	-	-	Shim Screw: SP3X8
		-43	●	12.70	3.2	8.1	7.0	4.2	R0.5	-	-	
		TNW -32	●	9.52	3.2	4.8	7.0	4.2	-	-	-	Shim Screw: SP3X8
		WTN -33	●	9.52	4.76	2.5	7.0	5.3	R0.8	-	-	Shim pin: WP-1S
		-33-20	●						R2.0			
		WWN -42	●	12.7	3.0	1.4	7.0	5.3	R1.2	-	-	Shim pin: WPSX15
	WWP -42	●	12.7	3.0	1.5	8.3	5.3	R1.2	11°	-	Shim pin: WPSX11	
	-42-16	●						R1.6				

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Cartridges

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		MAP -2216	△	-	9.0	11.0	19.8	-	-	20°	-	Clamp Screw SB-40140TR
		MAP -2506	●	-	9.5	14.9	20	-	-	5°	-	Clamp Screw SB-40140TR
		LSE -445R	●	12.7	13.0	19.5	26.0	-	-	20°	45°	Dimension A shows insert I.C.
	LS0 -445R	●	13.494	12.0	21.3	23.5	-	-	27°	45°		

Clamp Sets

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions							Notes
				A	B	C	D	E	F	G	
mm		BCS -1	●	64.0	13.0	-	-	-	-	-	
		-5	●	48.0	16.5	-	-	-	-	-	
		BCS -2	●	74.0	15.0	-	-	-	-	-	
		-3	●	88.0	16.0	-	-	-	-	-	
		BCS -4	●	98.0	16.0	-	-	-	-	-	
		CE -010	●	M8X1.25	28.0	24.0	12.8	13.0	4.0	4.0	G: Indicates hexagon hole two side widths of back side of bolts
		-220	●			27.0	15.8	15.0			
		CE -020	●	M8X1.25	30.0	17.0	10.5	12.7	4.0	4.0	G: Indicates hexagon hole two side widths of back side of bolts
		CE -030	●	M8X1.25	30.0	19.0	12.5	12.7	4.0	4.0	G: Indicates hexagon hole two side widths of back side of bolts
		-040	●			22.5	16.0				
		CE -320	●	M6X1.0	24.5	18.2	9.7	12.7	4.0	-	
		CE -360S	●	M6X1.0	16.0	18.0	10.55	12.4	4.0	-	
	CE -030A	●	M8X1.25	30.0	20.0	13.7	12.7	4.0	-	G: Indicates hexagon hole two side widths of back side of bolts	
	CE -410	●	M8X1.25	30.0	26.0	19.5	12.7	4.0	4.0	G: Indicates hexagon hole two side widths of back side of bolts	
	-430	●			29.0	22.5					
	CP -RC%	●	M6X1.0	20.0	24.5	14.8	11.0	5.0	-	R...shows right-hand L...shows left-hand	

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Clamp Sets

Unit	Drawing Handed Spare Parts show Right-hand	Part Number	Std. Item	Dimensions							Notes
				A	B	C	D	E	F	G	
mm		CPS -1	●	M3X0.5	9.0	10.0	5.2	5.5	2.0	-	
		CPS -2	●	MSX0.8	14.5	14.0	8.5	6.8	2.5	2.5	G: Indicates hexagon hole two side widths of back side of bolts
		-2P	●		18.0						
		-3	●	M6X1.0	19.0	16.5	10.0	8.8	3.0	3.0	
		CPS -2S	●	MSX0.8	13.5	14.0	8.5	6.8	T15	2.0	G: Indicates hexagon hole two side widths of back side of bolts
		-2TR	●		15.0						
		CPS -4V	●	M4X0.7	8.9	11.3	7.3	8.0	T10	-	G: Indicates hexagon hole two side widths of back side of bolts
		-5F	●	MSX0.8	11.3	12.7	7.5	10.3	T15	2.5	
		-5S	●		18.0	15.0	9.5	11.0		2.0	
		-5V	●		13.5	12.7	7.5	10.3		2.5	
	CPS -6F	●	M6X1.0	16.5	15.6	9.5	12.2	3.0	-	G: Indicates hexagon hole two side widths of back side of bolts	
	-6M	●		18.5	17.5	11.0	13.0		3.0		
	-6S	●			18.0	12.0	12.0				
	-6V	●			15.6	9.5	12.2				
	-8V	●	M8X1.25	24.0	20.8	13.0	15.5	4.0	4.0		
	CPS -5E	△	M5X0.8	13.5	17.5	12.0	9.0	T15	2.5	G: Indicates hexagon hole two side widths of back side of bolts	
	CPS -5%L	●	M5X0.8	18.0	17.5	12.0	9.0	2.5	2.5	G: Indicates hexagon hole two side widths of back side of bolts R...shows Right-hand Thread L...shows Left-hand Thread	
	LGBA -16%S	●	MSX0.8	15.0	16.1	11.2	9.85	T15	2.0	G: Indicates hexagon hole two side widths of back side of bolts R...shows right-hand L...shows left-hand	
	-22%S	●			17.6	12.7					
	WCS -1N	●	M6X1.0	21.0	15.7	-	15.0	3.0	-		
	WCS -8	●	M6X1.0	21.0	19.4	-	15.0	3.0	-		

P
SPARE PARTS

Clamps

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		C 08R	●	7.6	8.7	8.9	3.6	MSX0.8 (Left-hand Thread)	-	10°	-	
		C 09N	●	6.0	9.0	9.8	5.3	M6X1.0 (Left-hand Thread)	-	10°	-	Clamp Screw: W6X18N
		CH -20R	△	13.1	15.5	14.8	7.5	5.3	-	10°	-	Clamp Screw: TH8X15
		CGA -3%	●	24.0	17.66	12.0	6.2	1.9	11.0	-	-	R...shows right-hand L...shows left-hand
		-4%	●	24.0	17.66	12.0	6.2	2.9	11.0	-	-	
		-5%	●	27.5	18.66	12.0	6.2	3.9	14.5	-	-	
		CGB %L	△	19.0	14.0	8.2	6.35	9.5	-	-	-	R...shows right-hand L...shows left-hand
		CGH -1%	●	25.0	22.0	8.0	6.05	3.0	5.5	-	-	R...shows right-hand L...shows left-hand
-2%		●	5.0									
-3%		●	30.0	23.0	8.5	6.0		7.0				
	CGIA -3R	●	10.7	17.0	10.5	5.2	1.8	2.0	-	-		
	-4R	●			11.5		2.5					
	-5R	●	15.7	10.5	3.5		7.0					

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
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 Contact your local Kyocera sales engineer to upgrade old products to new technology

Clamps

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		CP -2D	●		10.0	21.6		10.4				
		-3D	●	-	12.0	27.6	-	14.0	-	-	-	
		-5D	●		13.0	32.0						
		CP -2D-%-JCT	●	-	13.5	25.3	-	21.5	-	-	-	
		CP -3D-%-JCT	●			26.4		17.9				
		-4D-%-JCT	●	-	13.1	28.4	-	18.2	-	-	-	
		-5D-JCT	●			31.9		21.5				
		CP -8TE	●	17.9	12.0	12.0	M8X1.25 (Left-hand Thread)	10.0	-	15°	-	
		CP -8W	●	20.9	12.0	8.0	M8X1.25 (Left-hand Thread)	13.0	-	3°	-	

Chipbreakers

Unit	Drawing Handed spare parts show right-hand	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		CB -11	●	11.5	12.7	3.5	-	-	-	-	-	
		-51	●	16.0	15.6	3.5	-	-	-	-	-	
		CB -12	●	14.0	12.7	3.5	-	-	-	-	-	Right-hand
		-13	●	14.0	12.7	3.5	-	-	-	-	-	Left-hand
		CB -14	●	18.51	12.7	3.5	-	-	-	-	-	Right-hand
		-15	●	18.51	12.7	3.5	-	-	-	-	-	Left-hand
		CB -16	●	18.0	12.7	3.5	-	-	-	-	-	
		-17	●	21.0	15.6	3.5	-	-	-	-	-	
		CB -S3220	△	7.94	7.94	1.0	2.0	-	-	-	-	
		-S4220	△	11.12	11.12	2.0	2.0	-	-	-	-	
		CB -T2212	△	7.48	-	1.5	1.2	-	-	-	-	
		-T3220	△	10.87	-	2.0	2.0	-	-	-	-	

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THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
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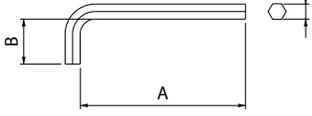
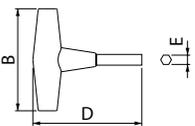
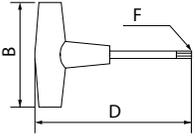
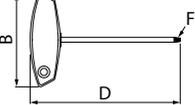
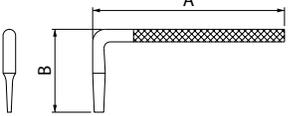
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Wrenches

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes	
				A	B	C	D	E	F	α	θ		
mm		DT -8	●	70	26	-	150	-	T8	-	-	Torx	
		DT -10	●	70	29	-	160	-	T10	-	-	Torx	
		-15	●	70	32		170		T15				
		-20	●	90	32		190		T20				
		-25	●	82	36		190		T25				
		DTM	-6	●	40	17	-	115	-	T6	-	-	Torx Top of wrench is magnetized
			-7	●	44	17		119		T7			
			-8	●	70	24		150		T8			
			-10	●	70	28		167		T10			
			-15	●	70	31		174		T15			
		DTP	-6	●	73	23	-	150	-	6IP	-	-	IP shows Torx Plus
			-7	●						7IP			
			-9	●	61	30		174		9IP			
			-15	●	81	33		186		15IP			
			-20	●	100			206		20IP			
		DTPM	-8	●	70	24	-	150	-	8IP	-	-	IP shows Torx Plus Top of wrench is magnetized
			-10	●	70	28		165		10IP			
			-15	●	70	31		174		15IP			
			FH -2	●	40	20	-	71	2.0	-	-	-	Hexagon
-2.5			●	45	20	76		2.5					
	FT	-6	●	35	15	-	65	-	T6	-	-	Torx	
		-7	●	34	15		62		T7				
		-8	●	40	20		74		T8				
		-10	●	40	20		74		T10				
	FT -15	●	45	25	10	80	-	T15	-	-	Torx		
	FTP	-5	●	35	15	-	65	-	5IP	-	-	IP shows Torx Plus	
		-6	●	34			62		6IP				
	LTW	-8SS	●	43	6	-	-	-	T8	-	-	Torx	
		-10S	●	62	10				T10				
		-10SS	●	47	7				T10				
		-15S	●	62	10				T15				
		-20	●	58	19				T20				
		-25	●	65	20				T25				

P
SPARE PARTS

Wrenches

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		LW -1.5	●	45	14			1.5				Hexagon
		-2	●	50	16			2.0				
		-2.5	●	56	18			2.5				
		-3	●	63	20			3.0				
		-4	●	70	25			4.0				
		-4.5	●	78	26			4.5				
		-5	●	80	28	-	-	5.0	-	-	-	
		-6	●	90	32			6.0				
		-8	●	109	36			8.0				
		-10	●	112	40			10.0				
		-14	●	140	56			14.0				
		-17	●	160	63			17.0				
-19	●	180	70			19.0						
		TH -4	●	-	80	-	83	4.0	-	-	-	Hexagon
		TT -15	●	-	70	-	118	-	T15	-	-	Torx
		-25	●	-	70	-	69	-	T25	-	-	
		-25L	●	-	80	-	145	-	T25	-	-	
		-30	●	-	80	-	110	-	T30	-	-	
		TTC -20	●	-	98	-	130	-	T20	-	-	
		-25	●	-	98	-	130	-	T25	-	-	
	TTP -20	●	-	70	-	138	-	20IP	-	-	IP shows Torx Plus	
		TTW -15	●	-	80	-	125	-	T15	-	-	Torx
		LTK -5	●	70	30	-	-	-	-	-	-	

INSERT GRADES	A
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DTD500 Electric Torque Insert Driver

Quick and easy insert replacements with precise torque control

Driver Specifications

Part Number	DTD500
Power Source	DC 3.7V (Embedded Li-ion Battery)
Capacity	970mAh
No-Load Rotation Speed	270 RPM
Max. Electric Torque	1 N·m
Manual Preset Torque	1 - 5 N·m (0.05 N·m Increments) 8.9 - 44 in·lb (0.4 in·lb Increments)
Work Capacity Per Charge (approx.)	Can tighten approx. 400 screws per charge (Ex. Screw: SB-50410TR / Cutter: MFPN453000R-5T)
Chuck Capability	1/4in Hexagonal Flat-to-Flat
Charging Time	~110 min
Dimensions	8.7 × 1.97 × 2.17in / 221 × 50 × 55mm
Weight	1.26 lbs / 570g

- ✓ Includes 5 magnetic bits and a USB Type-C charging cable
- ✓ Charging indicator light



Included Accessories

Variety Bit Set:

- (T8×65mm / T15×64mm / 8IP×65mm / 15IP×65mm / 20IP×65mm)
- 1m USB Charging Cable (Type-C)

Bit Shape	Size	Torque (N·m)	Torque (in·lb)	Screw Size
	T8	1.2	10.6	M2 / M2.5 / M3 / M4
	T15	3.5	31	M3.5 / M4 / M5
	8IP	1.2	10.6	M2.5 / M3
	15IP	3.5 / 4	31 / 35	M3.5 / M4 / M5
	20IP	4.5	40	M4.5 / M5 / M6

3.7v
Li-ion

270
RPM

Grip Dia.
50
mm

Charge
USB
USB Type-C

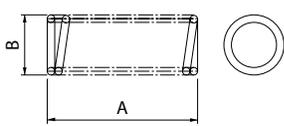
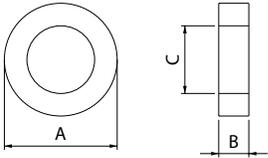
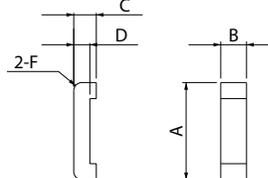
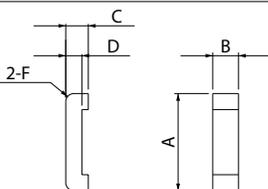
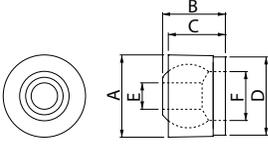
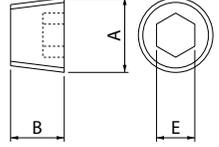
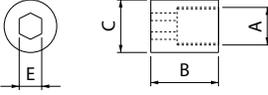
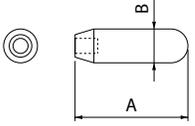
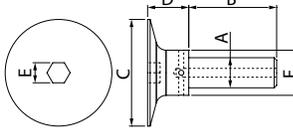
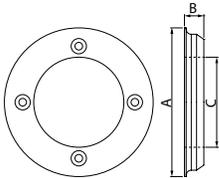
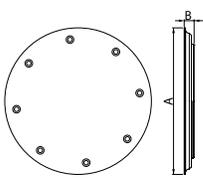



Optional Accessories (Parts below sold separately in 5-piece packs)

Bit Shape	Part Number	Size	Length (mm)	Length (in)	Torque (N·m)	Torque (in·lb)	Screw Size
	TB-T6x65	T6	65	2.56	0.5	4.4	M1.6 / M2 / M2.2
	TB-T8x65	T8	65	2.56	1.2	10.6	M2 / M2.5 / M3 / M4
	TB-T8x110		110	4.33			
	TB-T10x65	T10	65	2.56	2	18	M3 / M3.5 / M4 / M4.5
	TB-T15x65	T15	65	2.56	3.5	31	M3.5 / M4 / M5
	TB-T15x110		110	4.33			
	TB-T20x65	T20	65	2.56	4.5	40	M5 / M6
	TB-T25x65	T25	65	2.56	5	44	M6 / M8
	TPB-6IPx65	6IP	65	2.56	0.5	4.4	M2 / M3
	TPB-8IPx65	8IP	65	2.56	1.2	10.6	M2.5 / M3 / Inch 4-48
	TPB-8IPx110		110	4.33			
	TPB-10IPx65	10IP	65	2.56	2	18	M3 / M3.5
	TPB-15IPx65	15IP	65	2.56	3.5	31	M3.5 / M4 / M5
	TPB-15IPx110		110	4.33			
	TPB-20IPx65	20IP	65	2.56	4.5	40	M4.5 / M5 / M6
	TPB-20IPx110		110	4.33			
	TPB-25IPx65	25IP	65	2.56	5	44	M6 / M8
  Variety Bit Sets	TBTPB-VS65	T8 | 8IP | T15 | 15IP | 20IP	65	2.56	See above for each size		M2 / M2.5 / M3 / M3.5 / M4 / M4.5 / M5 / M6
	TBTPB-VS110	T8 | 8IP | T15 | 15IP | 20IP	110	4.33			

P
SPARE PARTS

Springs / Nuts / Punches / Other

Unit	Drawing	Part Number	Std. Item	Dimensions						Angle		Notes
				A	B	C	D	E	F	α	θ	
mm		SP -2D	●	8.5	5.6							Spring
		-3D	●	12.0	7.2							
		-5	●	12.0	6.7							
		-5D	●	12.0	7.2							
		-6	●	12.0	7.7							
		W -6	●	11.5	1.6	6.4						Washer
		6-14	●	11.5	1.4	6.4						
		WB -5	●	10.0	1.0	5.3						
		-6	●	11.5	1.6	6.4						
		-8	●	15.5	1.6	8.4						Washer (Brass)
		WSP -1	●	15.1	4.0	3.5	2.5	-	R1.25	-	-	Spacer
		DN 10	●	6.2	5.1	4.5	5.7	2.6	4.0			Nozzle
		20	●	10.1	7.7	7.0	9.6	M4X0.7	6.0			
		GP -1	●	PT1/8	7.0	-	-	5.0	-	-	-	Plug
		-2	●	PT1/4	9.0	-	-	6.0	-	-	-	
		WN -1	●	M5X8	10.0	7.0	-	3.0	-	-	-	Nut
		PC -1	●	60.0	8.5	-	-	-	-	-	-	Punch
		-2	●	62.2	10.0	-	-	-	-	-	-	
		HH 12X35HC	●	M12X1.75	35.0	42.5	16.4	8.0	18.0	-	-	Arbor bolt
HF 16X48HC		●	M16X2.0	30.0	62.5	18.4	12.0	40.0	-	-		
	CC -125-MFAH	●	87.5	11.4	53.0	-	-	-	-	-	Coolant Cover	
	-160-MFAH	●	122.5	12.4	70.0	-	-	-	-	-		
	CC -200-MFAH	●	162.5	14.4	-	-	-	-	-	-	Coolant Cover	
	-250-MFAH	●	212.5									
	-315-MFAH	●	277.5									

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External Turning Toolholders

Part Number			Spare Parts					
			Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench
PSBN%	1616H	-09	LL-1N	LS-1N	LS-32	LSP-1	PC-1	FH-2.5
PSKN%	1616H	-09	LL-1N	LS-1N	LS-32	LSP-1	PC-1	FH-2.5

External Turning Toolholders for Ceramic Inserts

Part Number			Spare Parts			
			Lever	Lock Screw	Shim Pin	Wrench
PTGN%	1212F	-11	LL-03N	LS-03N	P-03	FH-2
	.....	-11	LL-03TN	LS-03SN	P-03S	FH-2.5
PTFN%	1212F	-11	LL-03N	LS-03N	P-03	FH-2
	.....	-11	LL-03TN	LS-03SN	P-03S	FH-2.5

External Turning Toolholders for Ceramic Inserts

Part Number			Spare Parts				
			Chipbreaker	Clamp Set	Wrench	Shim	Shim Screw
CCLNR	2525M	-16	CB-17	CE-220	LW-4	SP-454	M4X10
CS-N%	.....	-12	CB-11	CE-020	LW-4	SP-141 *(SP-143)	M3X8 *(M3X12)
CSKN%	.....	-12	CB-11	CE-020	LW-4	SP-141 *(SP-143)	M3X8 *(M3X12)
CSYN%	.....	-12	CB-11	CE-020	LW-4	SP-141 *(SP-143)	M3X8 *(M3X12)
CSSN%	.....	-12	CB-11	CE-020	LW-4	SP-141 *(SP-143)	M3X8 *(M3X12)

* Shim & shim screw: When using SN□□43.. Insert, purchase spare parts in () separately.

External Turning Toolholders for Solid CBN Inserts

Part Number			Spare Parts			
			Clamp Set	Wrench	Shim	Shim Screw
CCLN%	.....	-12GX	CE-410	LW-4	SP-441	M3X8
CDHN%	.....	-12GX	CE-410	LW-4	SP-521	M3X8
		-15GX	CE-430		SP-541	
CDJN%	.....	-12GX	CE-410	LW-4	SP-521	M3X8
		-15GX	CE-430		SP-541	
CSRN%	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10
CSDNN	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10
CSSN%	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10
CS-N%	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10
CSKN%	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10
CSYN%	.....	-12GX	CE-410	LW-4	SP-141	M3X8
		-15GX			SP-162	M4X10

External Turning Toolholders for Solid CBN Inserts

Part Number	Spare Parts			
	Clamp Set	Wrench	Shim	Shim Screw
CCLN% -09A	CE-030A	LW-4	SP-429	HH3X12
CSRN% 2525M -09A 2525M -12A	CE-030A	LW-4	SP-129	HH3X12
			SP-148 *(SP-143)	BH3X12
CSKN% 2525M -09A 2525M -12A	CE-030A	LW-4	SP-129	HH3X12
			SP-148 *(SP-143)	BH3X12
CSYN% 2525M -09A 2525M -12A	CE-030A	LW-4	SP-129	HH3X12
			SP-148 *(SP-143)	BH3X12
CSDNN -09A 2525M -12A	CE-040	LW-4	SP-129	HH3X12
			SP-148 *(SP-143)	BH3X12
CTUN% -11A	CE-030A	LW-4	SP-219	HH3X12

* Shim for -12A type toolholder : When using SN□□43.. insert, purchase spare parts in () separately.

Toolholders for Bearing Machining

Part Number	Spare Parts					
	Lever	Lock Screw	Shim	Shim pin	Punch	Wrench
PRGC% -12BE -16BE	LL-1CN	LS-1N	LR-12C	LSP-1	PC-1	FH-2.5
	LL-2C	LS-1T	LR-16C	LSP-2	PC-2	FH-2.5
PRGC% -12BF -16BF	LL-1CN	LS-1N	LR-12C	LSP-1	PC-1	FH-2.5
	LL-2C	LS-1T	LR-16C	LSP-2	PC-2	FH-2.5

Toolholders for Back Turning

Part Number	Spare Parts			
	Anchor pin	Lock Screw	Clamp Screw	Wrench
AABSR 0810K -40F 1010.. -40F 1212.. -40F 1616.. -40F	LPA-11	HSB4X8R	-	FH-2
	LPA-13			
	LPA-17			
	-			
SABSR -40F	-	-	SB-3080TR	FT-10
AABWR 0810K -40F 1010.. -40F 1212.. -40F 1616.. -40F	LPA-11	HSB4X8R	-	FH-2
	LPA-13			
	LPA-17			
	-			
SABWR -40F	-	-	SB-3080TR	FT-10
AABWR 0810K -50F 1010.. -50F 1212.. -50F 1616.. -50F	LPA-11	HSB4X8R	-	FH-2
	LPA-13			
	LPA-17			
	-			
SABWR -50F	-	-	SB-3080TR	FT-10

KTKF

Part Number	Spare Parts	
	Clamp Screw	Wrench
KTKF% -12 -16	SB-4590TRWN	LTW-10S

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

External Toolholders (Back Clamp)

Part Number	Spare Parts		
	Anchor Pin	Lock Screw	Wrench
ACLCL%	0810K -06F	LPF-11	HSB4X8%
	1010K -06F		
	1010K -09F		
	1212M -09F		
	1616M -09F		
ADJCL%	0810K -07F	LPF-11	HSB4X8%
	1010K -07F		
	1010K -11F		
	1212M -11F		
	1616M -11F		
ADNCR	0810K -07F	LPF-11	HSB4X8R
	1010K -07F		
	1010K -11F		
	1212M -11F		
	1616M -11F		
AVJBL%	1010K -11F	LPF-11	HSB4X8%
	1212M -11F		
	1616M -11F		
AVVBR	1010K -11F	LPF-11	HSB4X8R
	1212M -11F		
	1616M -11F		

* Lock Screw: HSB4X8R for R-hand toolholder, HSB4X8L for L-hand toolholder.

External Toolholders (Screw Clamp)

Part Number	Spare Parts		
	Clamp Screw	Wrench	
SCLCL%	..... -06	SB-2570TR	FT-8
	..... -09	SB-4085TR	FT-15
	..... -12	SB-5090TR	LTW-20
SCACL%	..... -06	SB-2570TR	FT-8
	..... -09	SB-4085TR	FT-15
	1212F -09FF		
SDJCL%	..... -07F	SB-2570TR	FT-8
	..... -11F	SB-4085TR	FT-15
SDLCL%	..... -07FF	SB-2570TR	FT-8
	..... -11FF	SB-4085TR	FT-15
SDXCL%	..... -07	SB-2570TR	FT-8
	..... -11	SB-4085TR	FT-15
SDNCL%	..... -07F	SB-2570TR	FT-8
	..... -11F	SB-4085TR	FT-15
SDNCLN	..... -07	SB-2570TR	FT-8
	..... -11	SB-4085TR	FT-15
SDLPL%	..... -07F	SB-2570TR	FT-8
	..... -11F	SB-4085TR	FT-15
STGCL%	..... -08	SB-2050TR	FT-6
STGPL%	..... -08	SB-2050TR	FT-6
	..... -11	SB-3080TR	FT-10
SVJBL%	..... -11F	SB-2570TR	FT-8
SVLPL%	..... -08FF	SB-2050TR	FT-6
	..... -11FF	SB-2570TR	FT-8
	..... -11F		
SVLPL%	..... -08FF	SB-2050TR	FT-6
	..... -11FF	SB-2570TR	FT-8
	..... -11		
SYXPL%	..... -06F	SB-2050TR	FT-6

Discontinued Tools - Spare Parts List

External Toolholders (Screw Clamp)

Part Number	Spare Parts		
	Clamp Screw	Wrench	Plug
SCLCR -09FFJCT	SB-4085TR	FT-15	GP-1
SDJCR -11.JCT	SB-4085TR	FT-15	GP-1
SVJBR -11FFJCT	SB-2570TR	FT-8	GP-1
SVJPR -11FFJCT	SB-2570TR	FT-8	GP-1

External Toolholders (Screw Clamp)

Part Number	Spare Parts				
	Clamp Screw	Wrench	Shim	Shim Screw	Wrench
SVPB% -11	SB-2570TR	FT-8	-	-	-
..... -16N	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4
SVVBN -11	SB-2570TR	FT-8	-	-	-
..... -16N	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4

External Toolholders (Top Clamp)

Part Number	Spare Parts				
	Clamp Set	Wrench	Shim	Shim Screw	Chipbreaker
CSBP% -09N	CPS-2P	LW-2.5	-	-	CB-S3220
CSKP% -09N	CPS-2P	LW-2.5	-	-	CB-S3220
..... -12N	CPS-3	LW-3	KPS-42	SP3X8	CB-S4220
CSSP% -09N	CPS-2P	LW-2.5	-	-	CB-S3220
..... -12N	CPS-3	LW-3	KPS-42	SP3X8	CB-S4220
CSDPN -12N	CPS-3	LW-3	KPS-42	SP3X8	CB-S4220
CTGP% -11N	CPS-2P	LW-2.5	-	-	CB-T2212
..... -16N	CPS-3	LW-3	KPT-32	SP3X8	CB-T3220
CTFP% -11N	CPS-2P	LW-2.5	-	-	CB-T2212
..... -16N	CPS-3	LW-3	KPT-32	SP3X8	CB-T3220
CTTP% -11N	CPS-2P	LW-2.5	-	-	CB-T2212
..... -16N	CPS-3	LW-3	KPT-32	SP3X8	CB-T3220

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
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Discontinued Tools - Spare Parts List

EZ Bar PLUS

Part Number	Spare Parts	
	Clamp Screw	Wrench
S045X-SCLCR03-050EZ	SB-1635TR	FT-6
S060X-SCLCR04-070EZ	SB-2035TR	
C045X-SCLCR03-050EZ	SB-1635TR	FT-6
C060X-SCLCR04-070EZ	SB-2035TR	

Twin Bars

Part Number	Spare Parts	
	Clamp Screw	Wrench
STW%L -15	SB-3080TR	LTW-10S
STWSR -15T	SB-3080TR	LTW-10S

Swiss IQ Bars

Part Number	Spare Parts			
	Clamp Screw	Wrench	Screw (Side stopper)	Wrench
SVNR 1010H -12	SB-3080TR	FT-10	HS3X4	LW-1.5
1212K -12				
1616K -12				
2020K -12				
2525M -12				
SVNSR -12-..	SB-3080TR	LTW-10S	HS3X4	LW-1.5
S12F- SVNR 12	SB-3080TR	FT-10	HS3X4	LW-1.5
S14G- SVNR 12				
S16H- SVNR 12				
S19H- SVNR 12				
S19N- SVNR 12				
S20H- SVNR 12				
S25H- SVNR 12				
S25Q- SVNR 12				
S.... SVNR 12S	SB-3080TR	FT-10	HS3X4	LW-1.5

Swiss IQ Bars (S-SVN-XN)

Part Number	Spare Parts		
	Clamp Screw	Wrench	Clamp Screw
S...- SVNR 12XN	SB-3080TR	FT-10	SP3X4

PSH Sleeve

Part Number	Spare Parts	
	Clamp Screw	Wrench
PSH 02.. -..	HS3X4P	LW-1.5
03.. -..		
PSH 04.. -..	HS4X4P	LW-2
05.. -..		
06.. -..		
07.. -..		

P
SPARE PARTS

Boring Bars (Screw Clamp)

Part Number	Spare Parts	
	Clamp Screw	Wrench
S10H- SCLC% 03-..E	SB-1635TR	FT-6
S10J- SCLC% 04-..E	SB-2035TR	
S08X- SCLC% 06-10E	SB-2545TR	FT-8
S08X- SCLC% 06-10	SB-2545TR	FT-8
C...- SCLC% 03-..	SB-1635TR	FT-6
C...- SCLC% 04-..	SB-2035TR	
C08L- SCLC% 06-10	SB-2545TR	FT-8
A08H- SCLC% 06-10E	SB-2545TR	FT-8
E...- SCLC% 06-..	SB-2545TR	FT-8
S..M- SCLP% 08-..E	SB-35TR	FT-10
S...- SCLP% 09-..E	SB-4TR	FT-15
S..M- SCLP% 08-..	SB-35TR	FT-10
S...- SCLP% 09-..	SB-4TR	FT-15
C10N- SCLP% 08-..	SB-35TR	FT-10
C...- SCLP% 09-..	SB-4TR	FT-15
A..X- SCLP% 08-..E	SB-35TR	FT-10
A...- SCLP% 09-..E	SB-4TR	FT-15
E10N- SCLP% 08-12	SB-35TR	FT-10
E10N- SCLP% 08-12A-..	SB-3060TR	
E...- SCLP% 09-..	SB-4TR	FT-15
S...- SDUC% 07-..E	SB-2560TR	FT-8
S...- SDUC% 11-..E	SB-4085TR	FT-15
S...- SDUC% 07-..	SB-2560TR	FT-8
S...- SDUC% 11-..	SB-4085TR	FT-15
C...- SDUC% 07-..	SB-2560TR	FT-8
C...- SDUC% 11-..	SB-4085TR	FT-15
S...- SDZC% 07-..E	SB-2560TR	FT-8
S...- SDZC% 11-..E	SB-4085TR	FT-15
S...- SDZC% 07-..	SB-2560TR	FT-8
S...- SDZC% 11-..	SB-4085TR	FT-15
C06J- STLB% 06-08A	SB-2035TR	FT-6
E08L- STLP% 08-10A	SB-1TR	
E08L- STLP% 09-10A	SB-2545TR	FT-8
E10N- STLP% 09-..		
E10N- STLP% 11-..	SB-3060TR	FT-10
S06H- STUB% 06-08E	SB-1STR	FT-6
S08K- STUP% 08-10E	SB-1TR	
S..M- STUP% 09-..E	SB-2TR	FT-8
S...- STUP% 11-..E	SB-3TR	FT-10
S..X- STUP% 16-..E	SB-4TR	FT-15
S06H- STUB% 06-08	SB-1STR	FT-6
S08K- STUP% 08-10	SB-1TR	
S..M- STUP% 09-..	SB-2TR	FT-8
S...- STUP% 11-..	SB-3TR	FT-10
S25X- STUP% 16-32	SB-4TR	FT-15
C10L- STUB% 06-08	SB-1STR	FT-6
C08L- STUP% 08-10	SB-1TR	
C...- STUP% 09-..	SB-2TR	FT-8
C...- STUP% 11-..	SB-3TR	FT-10
C20S- STUP% 16-..	SB-4TR	FT-15
A08H- STUP% 08-10E	SB-1TR	FT-6
A..X- STUP% 09-..E	SB-2TR	FT-8
A...- STUP% 11-..E	SB-3TR	FT-10
A...- STUP% 16-..E	SB-4TR	FT-15
E08L- STUP% 08-10	SB-1TR	FT-6
E...- STUP% 09-..	SB-2TR	FT-8
E...- STUP% 11-..	SB-3TR	FT-10
E20S- STUP% 16-25	SB-4TR	FT-15

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
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Boring Bars (Screw Clamp)

Part Number	Spare Parts		
	Clamp Screw	Wrench	
S...- SWUB% 08...E	SB-2050TR	FT-6	
S12M- SWUP% 11-14E	SB-2545TR	FT-8	
S...- SWUP% 11...E	SB-2560TR		
S...- SWUP% 16...E	SB-4065TR	FT-15	
S...- SWUB% 06...E	SB-2040TR	FT-6	
S10J- SWUB% 08...E	SB-2035TR		
C...- SWUB% 06...E	SB-2035TR	FT-6	
C07K- SWUB% 08...E			
C08L- SWUB% 08...E			
C10N- SWUB% 08...E			
C12Q- SWUP% 11-14(-./.)	SB-2545TR	FT-8	
C12Q- SWUP% 11-16(-./.)	SB-2560TR		
C16X- SWUP% 11-18(-./.)			
C...- SWUP% 16...E	SB-4065TR	FT-15	
E...- SWUB% 08...E	SB-2050TR	FT-6	
S16Q- SSKPR09-20	SB-4TR	FT-15	
S20R- SSKPR09-25			
S25X- SSKPR12-32	GS-50S	LW-3	
S32S- SSKPR12-40	GS-50		
S12M- SYXP% 06-12E	SB-2040TR	FT-6	
S16Q- SYXP% 06-16E	SB-2045TR		

Boring Bars (Screw Clamp)

Part Number	Spare Parts				
	Clamp Screw	Wrench	Shim	Shim Screw	Wrench (For shim screw)
S12M- SVJP% 08-16E	SB-2050TR	FT-6	-	-	-
S...- SVJC% 08...E		FT-8			
S...- SVJB% 11...E	SB-2570TR	FT-15	SVN-32N	SS-4N	LW-4
S...- SVJB% 16...EN	SB-40125TRN	FT-15	SVN-32	SB-2050TR	FT-6
S32S- SVJB% 16-40E	SB-40115TR	FT-15	-	-	-
S40T- SVJB% 16-50E					
S10M- SVPC% 08-16E	SB-2050TR	FT-6	-	-	-
S...- SVPB% 11...E	SB-2570TR	FT-8			
S...- SVPB% 16...EN	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4
S25X- SVPB% 16-34E	SB-40115TR	FT-15	SVN-32	SB-2050TR	FT-6
S32S- SVPB% 16-40E					
S12M- SVUC% 08-16E	SB-2050TR	FT-6	-	-	-
S...- SVUB% 11...E	SB-2570TR	FT-8			
S...- SVUB% 16...EN	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4
S25X- SVUB% 16-34E	SB-40115TR	FT-15	SVN-32	SB-2050TR	FT-6
S32S- SVUB% 16-40E					
S12M- SVZC% 08-16E	SB-2050TR	FT-6	-	-	-
S...- SVZB% 11...E	SB-2570TR	FT-8			
S...- SVZB% 16...EN	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4
S25X- SVZB% 16-34E	SB-40115TR	FT-15	SVN-32	SB-2050TR	FT-6
S32S- SVZB% 16-40E					

Boring Bars (Top Clamp)

Part Number	Spare Parts				
	Chipbreaker	Clamp Set	Wrench	Shim	Shim Screw
S12L- CTUP% 09-16	-	CPS-1	FH-2	-	-
S...- CTUP% 11...E	-	CPS-2	FH-2.5	-	-
S25X- CTUP% 16-34	-	CPS-3	LW-3	-	-
S32S- CTUP% 16-43				KPT-32	SP3X10
S40X- CTUP% 16-50					
S32S- CTUC% 16-40	*CB-13/12	CE-320	LW-4	SP-230P	SP3X10
S...- CCLN% 09...A	-	CE-360S	LW-4	SP-420A	BH3X6
S...- CSKN% 09...A	-	CE-360S	LW-4	SP-130A	BH3X12
S32S- CSKPR12-43	CPS-3	-	LW-3	KPS-42	SP3X10

* CB-13 for Right-hand Toolholder, CB-12 for Left-hand Toolholder.

Boring Bars for Ceramic Inserts (Top Clamp)

Part Number	Spare Parts				
	Chipbreaker	Clamp Set	Wrench	Shim	Shim Screw
S325- CCLN% -12-40GX	-	CE-410	LW-4	-	-
S40T- CCLN% -12-50GX				SP-441P	M3X8
S325- CDUN% -12-40GX	-	CE-410	LW-4	-	-
S40T- CDUN% -12-50GX				SP-521P	M3X8
S325- CSKN% -12-40GX	-	CE-410	LW-4	-	-
S40T- CSKN% -12-50GX				SP-141P	M3X8
S40T- CSKN% -12-50	*1 CB-13/12	CE-320	LW-4	SP-141P *2 (SP-143P)	M3X8 *2 (M3X12)

*1 CB-13 for right-hand toolholder, CB-12 for left-hand toolholder.

*2 When using SN□□43... Insert, please purchase spare parts in () separately.

Bearing Machining - Boring Bars (Square Shank)

Part Number	Spare Parts		
	Clamp Screw	Wrench	
SRCP% 2020B-12 -A20	SB-4TR	FT-15	
2525B-16 -A32	SB-5090TR	LTW-20	

Bearing Machining - Internal Filletting (Square Shank)

Part Number	Spare Parts	
	Clamp Set	Wrench
CBSN% ...B-12 -A20	CP-RC%	LW-5

Sleeves for IQ Bars

Part Number	Spare Parts	
	Screw	Wrench
PH 02 ... 03 ... 04 ... 05 ... 06 ... 07 ...	HS3X4	LW-1.5
	HS4X4	LW-2

KTG

Part Number	Spare Parts		
	Clamp Screw	Wrench	
KTG% ... -16	SB-4TR	FT-15	
... 22-..	GS-50	LW-3	

KN91

Part Number	Spare Parts				
	Clamp	Clamp Bolt	Washer	Spring	Wrench
KN91% 44 -4 44 -5 44 -7	*CE-111/121	BH8X30	W-8	SP-8	LW-5
	*CE-131/141				

* KN91% 44-4/5 ... CE-111 for right-hand toolholder, and CE-121 for left-hand toolholder.

KN91% 44-7 ... CE-131 for right-hand toolholder, and CE-141 for left-hand toolholder.

AD Anti-Vibration Bars

Part Number	Spare Parts											
	Lever	Lock Screw	Punch	Shim Pin	Shim	Clamp Screw	Wrench	Boring Adapter	Clamp Bolt		Wrench	
HA32 PCLN% 12-40	LL-2K	LS-2P	PC-2K	LSP-3K	LC-4K	-	DTPM-15	AD32U	HH5X20 (3 pc)	HH5X30 (1 pc)	LW-4	
HA40 PCLN% 12-50								AD40V	HH6X20 (3 pc)	HH6X30 (1 pc)	LW-5	
HA50 PCLN% 12-63								AD50W	HH6X20 (3 pc)	HH6X30 (1 pc)	LW-5	
HA32 PDUN% 15-43	LL-3K	LS-3P		LD-4K43 (LD-4K*)	LT-3K			DTPM-10	AD32U	HH5X20 (3 pc)	HH5X30 (1 pc)	LW-4
HA40 PDUN% 15-50									AD40V	HH6X20 (3 pc)	HH6X30 (1 pc)	LW-5
HA50 PDUN% 15-63									AD50W	HH6X20 (3 pc)	HH6X30 (1 pc)	LW-5
HA32 PTFN% 16-40	LL-1K	LS-1P	LSP-2K	-	AD32U	HH5X20 (3 pc)	HH5X30 (1 pc)		LW-4			
HA40 PTFN% 16-50					AD40V	HH6X20 (3 pc)	HH6X30 (1 pc)		LW-5			
HA50 PTFN% 16-63					AD50W	HH6X20 (3 pc)	HH6X30 (1 pc)		LW-5			
HA32 SCLC% 09-40	-	-	-	-	-	SB-3580TR	FT-15	AD32U	HH5X20 (3 pc)	HH5X30 (1 pc)	LW-4	
HA32 SDUC% 11-40	-	-	-	-	-	SB-3580TR	FT-15	AD32U	HH5X20 (3 pc)	HH5X30 (1 pc)	LW-4	

*Punch (PC-2K) is not included. Purchase separately.

*When using DN□□44... inserts, purchase LD-4K separately.

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INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
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CUT-OFF	H
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QUICK CHANGE TOOLING	N
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Discontinued Tools - Spare Parts List

KGA

Part Number	Spare Parts			
	Clamp	Clamp Bolt	Spring	Wrench
KGA %L -3	CGA-3 %L	HH6X20	SP-6	LW-5
..... -4	CGA-4 %L			
..... -5	CGA-5 %L			

Clamp: CGA-OR for right-hand toolholder and CGA-OL for left-hand toolholder.

KGD^{R/L}.....-S

Part Number	Spare Parts		
	Clamp Bolt (for insert clamp)	Clamp Screw (for blade)	Wrench
KGD %L .....-S	BH6X10TR	SB-60120TR	LTW-25

KGD-JCT (for Small Parts Machining)

Part Number	Spare Parts		
	Clamp Screw	Wrench	Plug
KGD %L - ... JCT	SB-40120TR	LTW-155	GP-1

KGDF^{R/L}.....-S

Part Number	Spare Parts		
	Clamp Bolt (for insert clamp)	Clamp Screw (for blade)	Wrench
KGDF %L .....-S	BH6X10TR	SB-60120TR	LTW-25

KGM

Part Number	Spare Parts	
	Screw	Wrench
KGM %L 1212H -3 1616H -3 2020K -3 2525M -3	SB-5TR	LTW-20
	HH5X16	
	HH5X25	LW-4
	HH5X16	LW-4
HH5X25		
KGM %L 2020K -4 2525M -4	HH5X16	LW-4
	HH5X25	
KGM %L 2020K -5 2525M -5 3232P -5	HH5X16	LW-4
	HH5X25	
	HH6X25	
KGM %L 2525M -8 3232P -8	HH6X25	LW-5

KGM-T

Part Number	Spare Parts	
	Screw	Wrench
KGM %L 2012K-2T17 2020K-2T17 2525M-2T17	SB-5TR	LTW-20
	HH5X16	LW-4
	HH5X25	
KGM %L 1616H-3T20 2012K-3T20 2020K-3T20 2525M-3T20	HH5X16	LW-4
	SB-5TR	LTW-20
	HH5X16	LW-4
	HH5X25	
KGM %L 2020K-4T20 2525M-4T20 2525M-4T25	HH5X16	LW-4
	HH5X25	
	HH5X25	
KGM %L 2525M-5T25 3232P-5T25	HH5X25	LW-4
	HH5X25	LW-4
KGM %L 2525M-6T30	HH5X25	LW-4

KGM (for Small Parts Machining)

Part Number	Spare Parts	
	Clamp Screw	Wrench
KGM %L 0810K - ... 1010.. - ... 1212.. - 1.5-... 1212.. - 2-... 1212.. - 2.5-...	SE-40120TR	LTW-155
KGM %L 1616.. - 2-... 1616.. - 2.5-... 1616.. - 3-...	SE-50125TR	LTW-20

KGMM / KGMS

Part Number	Spare Parts	
	Screw	Wrench
KGMM %L 1212H-3 1616H-3 2020K-3 2525M-3	SB-5TR	LTW-20
	HH5X16	LW-4
	HH5X25	
	HH5X16	LW-4
KGMS %L 1212H-3	SB-5TR	
1616H-3	GS-50	
2020K-3	HH5X16	LW-4
2525M-3	HH5X25	

Discontinued Tools - Spare Parts List

KGMU

Part Number	Spare Parts	
	Clamp Bolt	Wrench
KGMU %L 2020K 2525M	HHSX16	LW-4
	HHSX25	

KIGH

Part Number	Spare Parts				
	Clamp	Clamp Bolt	Washer	Spring	Wrench
KIGHR ....-4 ....-5 ....-7	CGH-1L	HH6X25	W-6	SP-6	LW-5
	CGH-2L				

KIGM-V

Part Number	Spare Parts	
	Clamp Screw	Wrench
KIGM %L 2016B-3V 2520B-3V 3225B-3V 3225B-4V 4032B-4V	GS-50	LW-3
	SB-5TR	LTW-20
	SB-5TR	LTW-20

GFVS-AA / GFVT-AA

Part Number	Spare Parts	
	Clamp Set	Wrench
GFVS %L -08AA	CPS-5V	FT-15
GFVT %L -08AA	CPS-5V	FT-15

GIFV

Part Number	Spare Parts	
	Clamp Set	Wrench
GIFV %L 5032B-502B	CPS-6V	LW-3

KTKF-JCT

Part Number	Spare Parts		
	Clamp Screw	Wrench	Plug
KTKF %L -...JCT	SB-4590TRWN	FT-10	GP-1

KTKFS (for Sub Spindle Tooling)

Part Number	Spare Parts	
	Clamp Screw	Wrench
KTKFS %L - ...	SB-4050TRN	LTW-10S

KTKH-S

Part Number	Spare Parts
	Releasing wrench
KTKH %L -...S	LTK-5

KTKH-B

Part Number	Spare Parts			
	Clamp Screw	Wrench		
KTKH %L 0808K -...B 1010K -...B 1212M -...B 1414M -...B 1616M -...B	SE-40120TR	FT-15		
			SE-50125TR	LTW-20

KTTX

Part Number	Spare Parts	
	Clamp Screw	Wrench
KTTXR -16F	SB-4070TRW	FT-8

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

Discontinued Tools - Spare Parts List

DRS

Part Number			Spare Parts	
			Clamp Screw	Wrench
S20	-DRS	10...	SB-2080TR	FT-6
	-DRS	11...	SB-2290TR	FT-6
	-DRS	12...	SB-25100TR	DT-7

DRX

Part Number			Spare Parts	
			Clamp Screw	Wrench
S..	-DRX	- . -03	SB-2042TRG	DTM-6
	-DRX	- . -04	SB-2042TRG	DTM-6
	-DRX	- . -05	SB-2045TR	DTM-6
	-DRX	- . -06	SB-2250TR	DTM-7
	-DRX	- . -07	SB-2570TR	DTM-8
	-DRX	- . -09	SB-3080TR	DTM-10
	-DRX	- . -11	SB-4085TR	DTM-15
	-DRX	- . -14	SB-5090TR	DT-20
	-DRX	- . -17	SB-60120TR	DT-25

Discontinued Tools - Spare Parts List

MFPN45 (Face Mill)

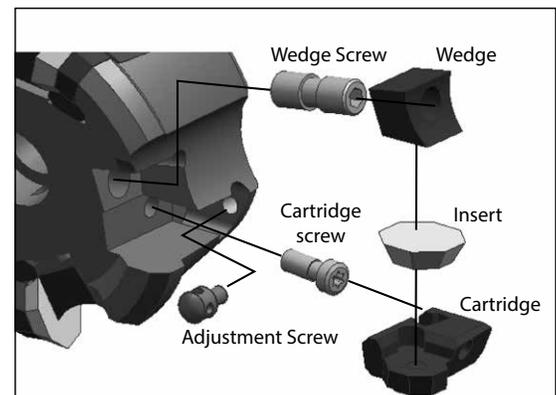
Part Number	Spare Parts		
	Clamp Screw	Wrench	Anti-seize compound
MFPN 45100R-10T-M ~ 45200R-20T-M	SB-40140TRN	DTM-15	P-37

MOF45

Part Number	Spare Parts		
	Clamp Screw	Wrench	Mounting bolt
MOF 45080R-05-6T 45100R-05-.T ~ 45200R-05-..T	SB-4082TPR	DTP-15	HH12X35
MOF 45080R-07-5T 45100R-07-.T ~ 45200R-07-..T	SB-50120TRS	DTP-15	HH12X35
MOF 45040R-05-3T-M 45050R-05-4T-M 45063R-05-5T-M 45080R-05-6T-M 45100R-05-.T-M ~ 45200R-05-..T-M	SB-4082TPR	DTP-15	HH8X25 HH10X30 HH12X35
MOF 45063R-07-4T-M 45080R-07-5T-M 45100R-07-.T-M ~ 45200R-07-..T-M	SB-50120TRS	DTP-15	HH10X30S HH12X35

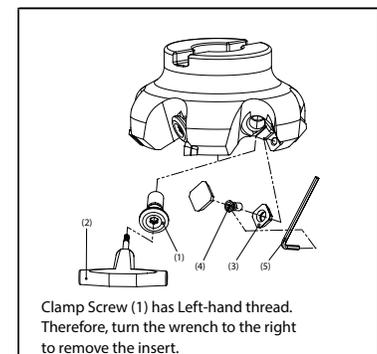
MOFX45

Part Number	Cartridge	Cartridge Screw	Wedge	Wedge Screw
MOFX45...	LOF07R	SH-50150TR	WOF07R	W8X21
Part Number	Adjustment Screw	Wrench (for Wedge)	Wrench (for Cartridge)	
MOFX45...	AJ-412	TH-4	TTC-20	



MSE45 (Face Mill)

Part Number	(1) Clamp Screw	(2) Wrench	(3) Shim	(4) Shim Screw	(5) Wrench
MSE 45040R-.T-M 45050R-.T-M	CP8X15TL (Left-hand Thread)				
MSE 45080R-.T ~ 45200R-..T	CP8X23TL (Left-hand Thread)	TTC-25	MSE-4245S	SP4X9	LW-2 (for Shim Screw)
MSE 45063R-.T-M ~ 45200R-..T-M					



Mounting bolt (SP8X35) is included for MSE45040R-.T-M.
 Mounting bolt (HH10X30S) is included for MSE45050R-.T-M and MSE45063R-.T-M.
 Mounting bolt (HH12X35) is included for MSE45080R-.T-M and MSE45080R-.T.

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
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Discontinued Tools - Spare Parts List

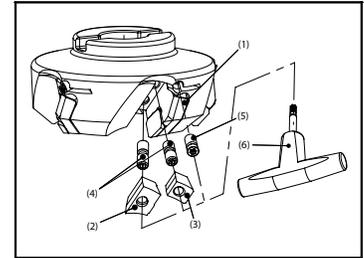
MSE45 (End Mill)

Part Number	Spare Parts			
	Clamp Set	Wrench	Shim	Shim Screw
MSE 4550 4563 4580-32	CPS-6M	LW-3	MSE-4245	SP3X8

MSE45-SF (Face Mill)

Part Number	(1) Cartridge	(2) Clamp	(3) Clamp	(4) Clamp Screw	(5) Adjustment Screw	(6) Wrench
MSE 45...R-T-SF 45...R-T-M-SF	LSE-445SR	C43R (for Insert)	C44R (for Cartridge)	W6X17	SV-60136TR	TTC-20

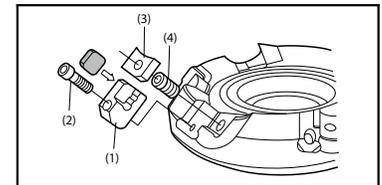
Mounting bolt (HH10X30S) is included for MSE45063R-4T-M-SF.
Mounting bolt (HH12X35) is included for MSE45080R-5T-M-SF.



MSD45 (Face Mill)

Part Number	(1) Cartridge	(2) Cartridge clamp screw	(3) Clamp	(4) Clamp Screw	Wrench
MSD 45...R	LSD-445R	HH4X16	C20R	TH8X15	TH-4

· Mounting bolt (HH12X35) is included for MSD4580R.

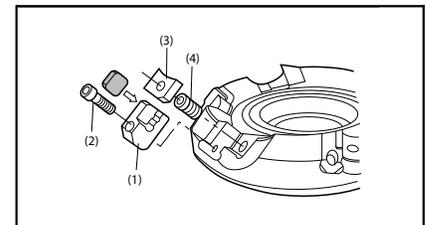


MSD45 (End Mill)

Part Number	Spare Parts			
	Clamp Set	Wrench	Shim	Shim Screw
MSD 4550 4563 4580-32	CPS-6M	LW-3	MSD-42	SP3X8

MSO45 (Face Mill)

Part Number	(1) Cartridge	(2) Cartridge clamp screw	(3) Clamp	(4) Clamp Screw	Wrench
MSO 45...R	LSO-445R	HH4X16	CH-20R	TH8X15	TH-4



MSO45-S (End Mill)

Part Number	Spare Parts				
	Shim	Shim Screw	Clamp	Clamp Screw	Wrench
MSO 45...S	MSO-4T245	SP3X6	CH-20R	TH8X15	TH-4

MSO45-09 (Face Mill)

Part Number	Spare Parts	
	Clamp Screw	Wrench
MSO 45...R-09	SB-3060TR	DT-10

MSO45-S-09 (End Mill)

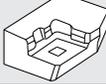
Part Number	Spare Parts	
	Clamp Screw	Wrench
MSO 45...S32-09	SB-3060TR	DT-10

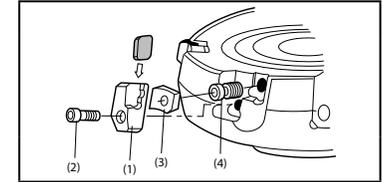
Discontinued Tools - Spare Parts List

MSP15 / MSE15 (End Mill)

Part Number	Clamp Set	Wrench	Shim	Shim Screw
				
MSP 15..	CPS-6M	LW-3	MSP-42	SP3X8
MSE 15..	CPS-6M	LW-3	MSE-4215	SP3X8

MSP15 (Face Mill)

Part Number	(1) Cartridge	(2) Cartridge clamp screw	(3) Clamp	(4) Clamp Screw	Wrench
					
MSP 15...R	LSP-415R	HH4X16	C25R	TH8X15	TH-4



Mounting bolt (HH12X35) is included in MSP1580R.

MEC (Face Mill)

Part Number	Spare Parts	
	Clamp Screw	Wrench
MEC ...R-11-..T(-M)	SB-2555TRG	DTM-8
MEC ...R-17-..T(-M)	SB-4070TRN	DTM-15

MEC (End Mill)

Part Number	Spare Parts	
	Clamp Screw	Wrench
MEC ..-W.-1103(-H)	SB-2545TR	DTM-8
MEC ..-W.-11T3(-H)	SB-2555TRG	DTM-8
MEC ..-W.-1704-H	SB-4070TRN	DTM-15

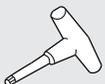
MECX (Face Mill)

Part Number	Spare Parts	
	Clamp Screw	Wrench
MECX 050R-07-12T-M	SB-2042TRG	DTM-6
MECX 063R-07-14T-M		

MECX (End Mill)

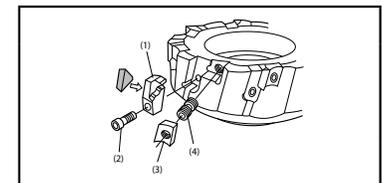
Part Number	Spare Parts	
	Clamp Screw	Wrench
MECX 32-S32-07-6T	SB-2042TRG	DTM-6
MECX 33-S32-200-07-6T		

MTE90-SF

Part Number	Cartridge	Clamp	Clamp	Clamp Screw	Adjustment Screw	Wrench
						
MTE 90...SF	LTE-490SR	C91R (for Insert)	C92R (for Cartridge)	W8X16	SV-60136R	TTC-25

MTE90 (Face Mill)

Part Number	(1) Cartridge	(2) Cartridge clamp screw	(3) Clamp	(4) Clamp Screw	Wrench
					
MTE 90...R	LTE-490R	HH4X16	C17R	W8X18	TH-4



MTE90 (End Mill)

Part Number	Spare Parts				
	Clamp	Clamp Screw	Wrench	Shim	Shim Screw
					
MTE 9050	CP-8TE	W8X18	LW-4	MTE-42	SP3X8
MTE 9063					
MTE 9080-32					

Discontinued Tools - Spare Parts List

MRP (Face Mill)

Part Number			Spare Parts	
			Clamp Screw	Wrench
MRP	...R	-10-.T	SB-3080TR	DT-10
MRP	050R	-12	SB-40115TR	DT-15
	063R	-12		
	080R	-12	SB-4085TR	
	080R	-12-7T		
MRP	...R	-16(-.T)	SB-50120TR	DT-20
MRP	...R	-20	SB-60120TR	DT-25

MHD (Helical End Mill)

Part Number			Spare Parts				
			Clamp Screw	Wrench	Clamp Bolt		Wrench
					1 Front Piece	2 Front Pieces	
MHD	32-S32	-SA	SB-2560TR	DT-8	-	HH8X50	LW-6
	40-S32	-SA					
	40-S42	-SA	SB-3080TR	DT-10		HH8X65	
	50-S42	-SA				HH12X65		LW-10
MHD	40-S42	-SB	SB-3080TR	DT-10	HH8X40	-	LW-6
	50-S42	-SB			HH12X40	-	LW-10
MHD	205-S20	-C	SB-2560TR	DT-8	-	-	-
	25-S25	-C					
	32-S32	-C					
	40-S42	-C	SB-3080TR	DT-10			
	50-S42	-C					
MHD	32-S32	-A	SB-2560TR	DT-8	HH8X35	HH8X50	LW-6
	40-S32	-A					
	40-S42	-A	SB-3080TR	DT-10	HH8X40	HH8X65	
	50-S42	-A			HH12X40	HH12X65		LW-10
MHD	32-S32	-A-130	SB-2560TR	DT-8	HH8X35	HH8X50	LW-6
	40-S32	-A-150	SB-3080TR	DT-10	HH8X40	HH8X65	
	50-S42	-A-150			HH12X40	HH12X65		LW-10
MHD	40-S42	-B	SB-3080TR	DT-10	HH8X40	-	LW-6
	50-S42	-B			HH12X40	-	LW-10
MHD	32	-F	SB-2560TR	DT-8	-	-	-
	40	-F	SB-3080TR	DT-10			
	50	-F					

MHD (Face Mill and Integral Arbor Type)

Part Number			Spare Parts									
			Clamp Screw	Wrench	Clamp Bolt	Wrench						
MHD	63-FMA	-SA	SB-3080TR	DT-10	HH16X90	LW-14						
	80-FMA	-SA			HH20X110	LW-17						
	100-FMA	-SA			HH24X110	LW-19						
MHD	63-FMA	-A			HH16X90	LW-14						
	80-FMA	-A			HH20X110	LW-17						
	100-FMA	-A			HH24X110	LW-19						
MHD	63-BT50	-SA			SB-3080TR	DT-10	HH16X65	LW-14				
	80-BT50	-SA					HH20X90	LW-17				
	100-BT50	-SA					HH24X90	LW-19				
MHD	63-BT50	-A					SB-3080TR	DT-10	HH16X65	LW-14		
	80-BT50	-A							HH20X90	LW-17		
	100-BT50	-A							HH24X90	LW-19		
MHD	63	-F							SB-3080TR	DT-10	-	-
	80	-F									-	-
	100	-F									-	-

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

Discontinued Tools - Spare Parts List

MHD (Radius Type)

Part Number	Spare Parts						
	Clamp Screw		Wrench		Clamp Bolt		Wrench
	For bottom insert	For middle insert	For bottom insert	For middle insert	1 Front piece	2 Front pieces	
MHD 32-S32 -4RSA	SB-2560TR	SB-2560TR	DT-8	DT-8	-	HH8X50	LW-6
40-S32 -5RSA	SB-3080TR	SB-3080TR	DT-10	DT-10		HH8X55	
40-S42 -5RSA			DT-15			HH12X55		LW-10
50-S42 -6RSA	SB-4085TR						
MHD 32-S32 -A	SB-2560TR		DT-8		-	HH8X50	LW-6
40-S32 -A	SB-3080TR		DT-10			HH8X65	
40-S42 -A						HH12X65		LW-10
50-S42 -A							
MHD 32 -F	SB-2560TR		DT-8		-	-	-
40 -F	SB-3080TR		DT-10				
50 -F							
MHD 32 -4RF	SB-2560TR	SB-2560TR	DT-8	DT-8	-	-	-
40 -5RF	SB-3080TR	SB-3080TR	DT-10	DT-10			
50 -6RF	SB-4085TR		DT-15				

MEZ

Part Number	Spare Parts	
	Clamp Screw	Wrench
MEZ 16-S16...	SB-2040TRG	DTM-6
20-S20...	SB-2555TRG	DT-8
25-S25...	SB-3070TRG	DT-10
32-S32...	SB-4070TRG	DT-15
40-S32...	SB-3070TRG	DT-10
50-S42...	SB-4070TRG	DT-15

MGI

Part Number	Spare Parts	
	Clamp Set	Wrench
MGI ....-1C	CPS-6F	LW-3

MVG

Part Number	Spare Parts	
	Clamp Set	Wrench
MVG	CPS-6V	LW-3

Blank Tool

Part Number	Spare Parts	
	Coolant pipe	
T63H -BL...-	CL63-1	

Flange Holder

Part Number	Spare Parts						
	Screw	Wrench	Mounting bolt	Wrench	Adjustment Screw	Wrench	
SF22F -SCLCL09 -40P	SB-4085TR	FT-15	HH5X30	LW-4	HS3X4	LW-1.5	
-SDUCL11 -40P	SB-4085TR	FT-15	HH5X30	LW-4	HS3X4	LW-1.5	
-SVUBL11 -40P	SB-2570TR	FT-8	HH5X30	LW-4	HS3X4	LW-1.5	
-KTGFL16 -40P	SB-4070TRS	FT-10	HH5X30	LW-4	HS3X4	LW-1.5	
-KITXL16 -40P	SB-4070TRW	FT-8	HH5X30	LW-4	HS3X4	LW-1.5	

Flange Holder (Sleeve Type)

Part Number	Spare Parts					
	Mounting bolt	Wrench	Adjustment Screw	Wrench	Screw (for fixing toolholder)	Wrench
SF22F -SH.. -40P	HH5X30	LW-4	HS3X4	LW-1.5	HS6X4P	LW-3