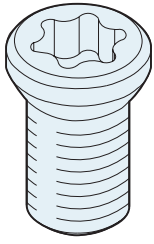


# Spare Parts



# P

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Pins	P7
Shims	P8~P12
Cartridges	P12
Clamp Sets	P13~P14
Clamps	P15
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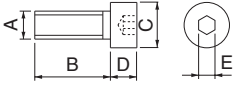
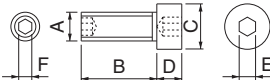
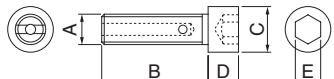
# Screws

Shape	Description	Dimension (mm)							Angle (°)		Torque (N·m)	Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$			
	<b>AJ</b> <b>-6X38</b>	M6X1.0	38.0	6.0	10.0	3.0	3.0	-	-	-		
	<b>-8X44-9.5</b>	M8X1.25	44.0	9.5	6.0	4.0	4.0	-	-			
	<b>-10X46</b>	M10X1.5	46.0	11.5	8.0	5.0	5.0	-	-			
	<b>BH</b> <b>3X6</b>	M3X0.5	6.0	-	1.7	2.0	-	-	-	-		
	<b>3X12</b>	M3X0.5	12.0	-	1.7	2.0	-	-	-			
	<b>6X25</b>	M6X1.0	25.0	-	3.3	4.0	-	-	-			
	<b>8X30</b>	M8X1.25	30.0	-	4.4	5.0	-	-	-			
	<b>BH</b> <b>6X10TR</b>	M6X1.0	10.0	12.0	5.0	-	T25	-	-	6.5		
	<b>CP</b> <b>8X15TL</b>	M8X1.25	15.0	-	-	-	T25	-	-	6.0	L...shows Left-hand Thread	
	<b>8X23TL</b>		23.0									
	<b>CS</b> <b>-2D</b>	M4X0.7	21.5	6.4	3.5	2.5	2.0	-	-	1.7		
	<b>-3D</b>	M5X0.8	22.0	8.0	4.0	3.0	2.5	-	-	3.9		
	<b>-5D</b>	M5X0.8	28.0	8.0	4.0	3.0	2.5	-	-	3.0		
	<b>GS</b> <b>-50</b>	M5X0.8	13.0	7.5	-	3.0	-	-	82°	-		
	<b>-50S</b>	M5X0.8	9.0	7.5	-	3.0	-	-	82°			
	<b>GS</b> <b>-4090T<sup>R/L</sup>W</b>	M4X0.7	9.0	5.8	-	2.0	2.0	-	82°	-	R...shows Right-hand Thread L...shows Left-hand Thread	
	<b>HF</b> <b>20X53H</b>	M20X2.5	35.0	43.0	18.0	14.0	14.0	-	-	-	With Coolant Hole	
	<b>24X60H</b>	M24X3.0	40.5	65.0	19.5	17.0						
	<b>HH</b> <b>3X6</b>	M3X0.5	6.0	5.5	3.0	2.5	-	-	-	-		
	<b>3X12</b>		12.0									
	<b>HH</b> <b>4X16</b>	M4X0.7	16.0	7.0	4.0	3.0	-	-	-			
	<b>HH</b> <b>5X15</b>	M5X0.8	15.0	8.5	5.0	4.0	-	-	-			
	<b>5X16</b>		16.0									
	<b>5X20</b>		20.0									
	<b>5X25</b>		25.0									
	<b>5X30</b>		30.0									
	<b>HH</b> <b>6X12</b>	M6X1.0	12.0	10.0	6.0	5.0	-	-	-			
	<b>6X16</b>		16.0									
	<b>6X16A</b>		16.0									
	<b>6X18A</b>		18.0									
	<b>6X20</b>		20.0									
<b>6X25</b>	25.0											
<b>6X30</b>	30.0											

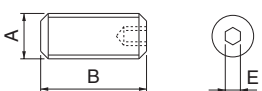
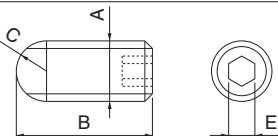
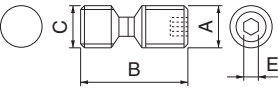
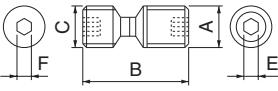
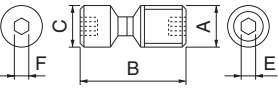
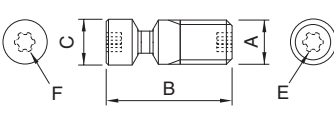
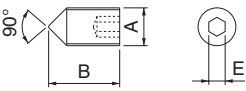
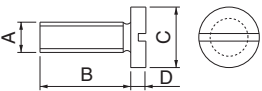
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Spare Parts

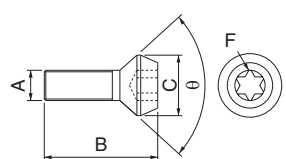
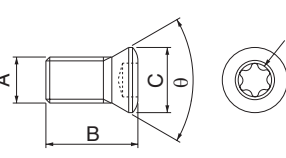
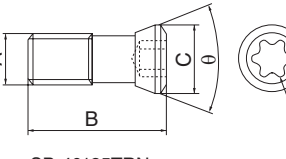
Shape	Description	Dimension (mm)						Angle (°)		Torque (N·m)	Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$		
	HH	8X25	M8X1.25	25.0	13.0	8.0	6.0	-	-	-	-
		8X35		35.0							
		8X40		40.0							
		8X50		50.0							
		8X55		55.0							
		8X65		65.0							
		8X70		70.0							
		8X80		80.0							
		8X85		85.0							
		8X100		100.0							
		8X110		110.0							
	HH	10X25	M10X1.5	25.0	16.0	10.0	8.0	-	-	-	
		10X30		30.0							
		10X30M		30.0							
		10X30S		30.0							
		10X35		35.0							
		10X40		40.0							
	HH	12X25	M12X1.75	25.0	18.0	12.0	10.0	-	-	-	
		12X30		30.0							
		12X35		35.0							
		12X35M		35.0							
		12X40		40.0							
		12X55		55.0							
		12X65		65.0							
		12X80		80.0							
		12X85		85.0							
		12X100		100.0							
		12X110		110.0							
		12X120		120.0							
		12X130		130.0							
		12X140		140.0							
	12X150	150.0									
	HH	16X35	M16X2.0	35.0	24.0	16.0	14.0	-	-	-	
		16X40		40.0							
		16X45		45.0							
		16X65		65.0							
		16X90		90.0							
		16X110		110.0							
		16X130		130.0							
	HH	20X40	M20X2.5	40.0	30.0	20.0	17.0	-	-	-	
		20X55		55.0							
		20X75		75.0							
20X90		90.0									
20X110		110.0									
20X120		120.0									
20X140		140.0									
20X150		150.0									
20X170	170.0										
HH	24X40	M24X3.0	40.0	36.0	24.0	19.0	-	-	-		
	24X60		60.0								
	24X75		75.0								
	24X90		90.0								
	24X110		110.0								
	24X120		120.0								
	24X140		140.0								
	24X150		150.0								
24X170	170.0										
	HH	4X12	M4X0.7	10.0	7.0	4.0	3.0	2.0	-	-	-
			8X25H	M8X1.25	25.0	13.0	8.0	5.0	-	-	-
10X30H	M10X1.5		30.0	16.0	10.0	6.0					
12X35H	M12X1.75		35.0	18.0	12.0	8.0					
16X52H	M16X2.0		36.0	24.0	16.0	12.0					

# Screws

Shape	Description	Dimension (mm)						Angle (°)		Torque (N·m)	Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$		
	HS 3X4P	M3X0.5	3.9							1.0	HS4X4P and HS6X4P have a flat edge  Clamp screw equivalent to JIS B-1177
	3X4		4.0								
	3X8		8.0	-	-	1.5	-	-	-		
	3X12		12.0								
	3X16	16.0									
	HS 4X4P	M4X0.7	3.9							2.0	
	4X4		4.0	-	-	2.0	-	-	-		
	5X5	M5X0.8	5.0				2.5			3.0	
	HS 6X4P	M6X0.75	3.9							4.0	
	6X6	M6X1.0	6.0	-	-	3.0	-	-	-		
	6X14		14.0								
	6X22		22.0								
	HS 8X10	M8X1.25	10.0	-	-	4.0	-	-	-		
	8X12		12.0								
	HS 10X10	M10X1.5	10.0	-	-	5.0	-	-	-		
	10X16		16.0								
	HS 12X12	M12X1.75	12.0							-	
	12X16		16.0								
12X18	18.0										
12X20	20.0		-	-	6.0	-	-	-			
12X25	25.0										
12X30	30.0										
12X35	35.0										
HS 16X12	M16X2.0	12.0	-	-	8.0	-	-	-			
16X18		18.0									
16X20		20.0									
	HSB 4X8 <sup>P/L</sup>	M4X0.7	8.0	R2.0	-	2.0	-	-	2.0	R...shows Right-hand Thread L...shows Left-hand Thread	
	LS -03	M5X0.8	10.0	M5X0.8	-	2.0	-	-	-	2.0	N:Silver coated
	-03S		12.2		2.5					3.0	
	LS -03N	M5X0.8	9.7	M5X0.8	-	2.0	-	-	-	2.0	
	-03SN		12.0		2.5					3.0	
	LS -05	M5X0.8	15.5	M5X0.8	-	2.0	2.0	-	-	2.0	
	LS -1	M6X1.0	17.0	6.0	-	2.5	2.5	-	-	3.0	N:Silver coated
	-1N		14.2								
	-1S		21.0								
	-1SN										
	LS -2	M8X1.0	20.0	8.0	-	3.0	3.0	-	-	4.0	
	-2N		22.0								
	-3		24.0								
	-4										
	LS -4N										
		LS -1P	M6X1.0	16.5	6.0	-	10IP	10IP	-	-	
-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						

P

Spare Parts

Shape	Description	Dimension (mm)						Angle (°)		Torque (N-m)	Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$		
	SB -1TR	M2X0.4	5.3	3.8			T6		82°	0.5	R...shows Right-hand Thread
	SB -2TR	M2.5X0.45	6.2	4.5			T8			1.2	
	SB -3TR		7.2	4.8							
	SB -3STR	M3X0.5	6.4	5.2			T10			2.0	
	SB -3.5TR	M3.5X0.6	9.3	5.6							
	SB -4TR	M4X0.7	7.7	5.8			T15			3.5	
	SB -5TR	M5X0.8	20.0	8.7	-	-	T20	-	90°	4.5	
	SB -2290TR	M2.2X0.45	9.2	2.8			T6			0.5	
	SB -25100TR	M2.5X0.45	10.0	3.5			T7			0.8	
	SB -40115TR	M4X0.7	11.5	5.5			T15		60°	3.5	
	SB -5070TR		7.0								
	SB -5090TR	M5X0.8	9.0	6.8			T20			4.5	
	SB -50120TR		12.0								
  SB-40125TRN	SB -1635TR	M1.6X0.35	3.3	2.6							R...shows Right-hand Thread
	SB -1STR		5.0	3.1					60°	0.5	
	SB -2035TR		3.7	3.0							
	SB -2035TRG		3.5	2.7							
	SB -2040TR		3.8								
	SB -2040TRG		4.0	3.0			T6				
	SB -2042TRG	M2X0.4	4.1	2.7							
	SB -2045TR		4.3	2.8					37°		
	SB -2045TRN		4.8	3.0							
	SB -2050TR		5.8	3.5			T8		60°	1.2	
	SB -2060TR		8.3	2.8			T6			0.5	
	SB -2080TR										
	SB -2250TR		5.1	3.1							
	SB -2255TR	M2.2X0.45	5.5	3.5			T7		60°	0.8	
	SB -2260TR		5.8	3.1							
	SB -2545TR		4.6								
	SB -2555TRG	M2.5X0.45	5.4	3.5			T8		60°	1.2	
	SB -2560TR		5.7								
	SB -2570TR		6.8								
	SB -3060TR		5.3	4.2			T10			2.0	
	SB -3060TRG		5.9								
	SB -3065TRP	M3X0.5	6.5	4.0			8IP		60°	1.2	
	SB -3070TRG		7.0	4.2			T10			2.0	
	SB -3080TR		8.0								
	SB -3580TR		8.0	5.3			T15			3.5	
	SB -3590TRP	M3.5X0.6	9.0				15IP		60°	4.0	
	SB -3592TR		9.2	5.1			T10			2.0	
	SB -4050TRN	M4X0.5	4.6	5.1			T10		57°	2.0	
	SB -4060TR		5.9								
	SB -4065TR		6.7	5.5							
	SB -4070TRG		7.0				T15			3.5	
	SB -4070TRN		6.9	5.4							
SB -4070TRS		6.7				T10		60°	2.0		
SB -4082TPR		8.2				15IP			4.0		
SB -4085TR	M4X0.7	8.5				T15					
SB -4085TRP											
SB -4090TRP		9.0	5.7			15IP					
SB -40120TR		12.0	5.1								
SB -40125TRN		12.5	5.2					50°			
SB -40140TR			5.5			T15		60°			
SB -40140TRN		14.0	6.7					75°			
SB -45130TR	M4.5X0.75	13.0	6.6			20IP		55°	4.5		
SB -5085TR		8.5	6.8			T20		50°	4.5		
SB -50120TRS	M5X0.8	12.0	7.2			15IP		60°	3.5		
SB -50140TR		14.0	7.3			T15		50°	3.5		
SB -50140TRP						20IP			4.5		
SB -60120TR	M6X1.0	12.0	8.5			T25		60°	6.0		

## Reference

Torx and Torx Plus have different cross-sections.



Torx



Torx Plus



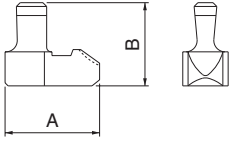
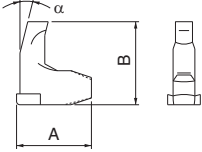
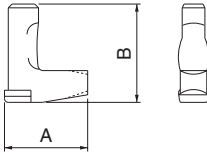
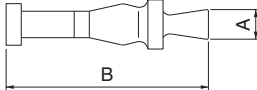
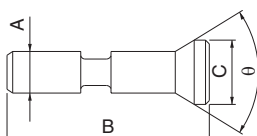
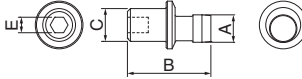
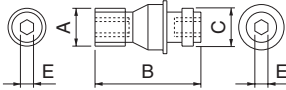
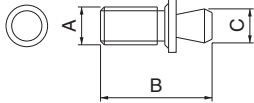
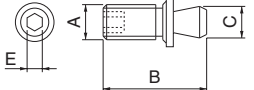
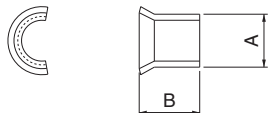
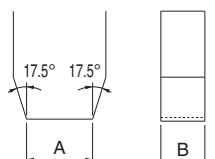
# Screws

Shape	Description	Dimension (mm)						Angle (°)		Torque (N·m)	Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$		
	<b>SB -4070TRW</b>	M4X0.7	6.7	5.5	-	-	T8	-	60°	1.2	R...shows Right-hand Thread
	<b>-4590TRWN</b>	M4.5X0.75	9.3	5.6	-	-	T10	-	57°	2.0	
	<b>SC -30067</b>	M3X0.35	6.7	4.4	-	-	T8	-	60°	1.2	
	<b>-35085</b>	M3.5X0.35	8.5	5.7	-	-	T10	-	60°	2.0	
	<b>-40100</b>	M4X0.5	10.0	6.0	-	-	T15	-	60°	3.5	
	<b>-50130</b>	M5X0.5	13.0	6.6	-	-	T20	-	40°	4.5	
	<b>-60160</b>	M6X0.75	16.0	8.0	-	-	T25	-	40°	6.0	
	<b>-60210</b>	M6X0.75	21.0	9.6	-	-	T30	-	40°	8.0	
	<b>SE -3070TRP</b>	M3X0.5	7.0	4.3	-	-	9IP	-	43°	1.7	OOIP shows Torx Plus
	<b>-40050TRN</b>	M4X0.7	5.0	5.0	-	-	T15	-	44°	3.5	
	<b>-40055TR</b>	M4X0.7	5.5	5.0	-	-	T15	-	44°	3.5	
	<b>-40068TR</b>	M4X0.7	6.8	5.0	-	-	T15	-	44°	3.5	
	<b>-40080TR</b>	M4X0.7	8.0	5.0	-	-	T15	-	44°	3.5	
	<b>-40090TR</b>	M4X0.7	9.0	5.0	-	-	T15	-	44°	3.5	
<b>-40100TR</b>	M4X0.7	10.0	5.0	-	-	T15	-	44°	3.5		
	<b>SE -40120TR</b>	M4X0.7	12.0	5.6	-	-	T15	-	60°	3.5	
	<b>-50125TR</b>	M5X0.8	12.5	6.8	-	-	T20	-	60°	4.5	
	<b>SH -50150TR</b>	M5X0.8	15.1	7.4	3.2	-	T20	-	-	4.5	
	<b>SP 3X4</b>	M3X0.5	4.0	4.0	-	-	-	-	90°	-	With additional machining below the fillister head  Cross recessed flat head screw equivalent to JIS...B-1111
	<b>3X6</b>	M3X0.5	6.0	6.0	-	-	-	-	90°	-	
	<b>3X8</b>	M3X0.5	8.0	6.0	-	-	-	-	90°	-	
	<b>3X10</b>	M3X0.5	10.0	6.0	-	-	-	-	90°	-	
	<b>SP 4X9</b>	M4X0.7	9.0	5.6	-	2.0	-	-	90°	-	
	<b>SP 8X35</b>	M8X1.25	35.0	11.0	4.4	5.0	-	-	90°	-	
	<b>SPW -6045</b>	M6X0.75	9.0	7.5	M4.5X0.75	4.5	-	-	-	-	A shows External, D shows Internal. External and Internal threads are both Right-hand threads.
	<b>-7050</b>	M7X0.75	9.0	8.8	M5X0.8	5.0	-	-	-	-	
	<b>SS -4N</b>	M5.5X0.5	8.5	6.6	M4X0.7	4.0	-	-	-	-	
	<b>SV -60136R</b>	M6X1.0	13.6	6.3	-	4.0	-	-	6°	-	Hexagon socket
	<b>-60136TR</b>	M6X1.0	13.6	6.3	-	4.0	T20	-	6°	4.5	Torx
	<b>TH 8X15</b>	M8X1.25	20.0	8.5	-	4.0	-	-	-	-	
	<b>W 6X17</b>	M6X1.0	17.0	-	-	-	T20	-	-	4.5	
	<b>8X16</b>	M8X1.0	16.0	-	-	-	T25	-	-	6.0	
	<b>W 6X18</b>	M6X1.0	17.5	-	-	3.0	-	-	-	-	
	<b>6X20</b>	M6X1.0	20.5	-	-	3.0	-	-	-	-	
	<b>8X18</b>	M8X1.25	18.0	-	-	4.0	-	-	-	-	
	<b>8X21</b>	M8X1.0	21.0	-	-	4.0	-	-	-	-	

P

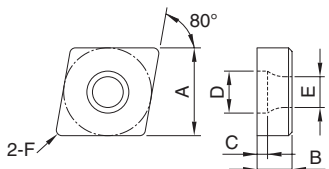
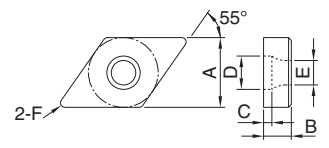
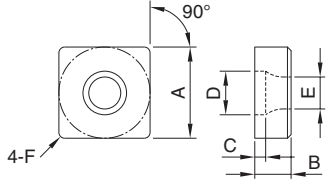
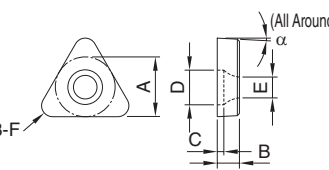
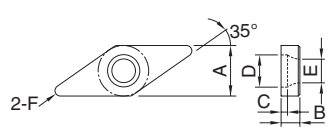
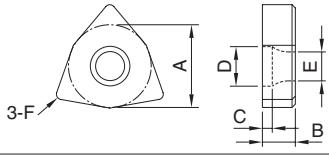
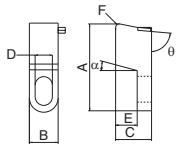
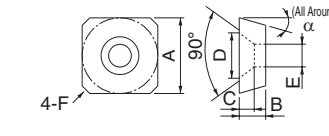
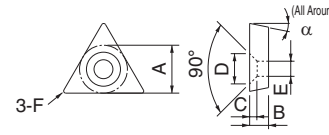
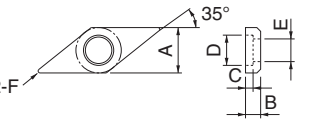
Spare Parts

# Pins

Shape	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	LL -03	7.8	6.3							
	LL -03N	7.8	6.3							
	LL -03S	11.1	8.9	-	-	-	-	-	-	
	LL -03SN	11.1	8.9							
	LL -03T	8.3	8.9							
	LL -03TN	8.3	8.9							
	LL -05C	10.7	11.7					12°		
	LL -1C	13.0	13.3					14°		
	LL -1CN	13.0	13.3					14°		
	LL -2C	18.8	17.6					14°		
	LL -1	10.3	12.0							
	LL -1K	10.0	12.0							
	LL -1N	10.3	12.0							
	LL -1D	12.3	12.0							
	LL -1DN	12.3	12.0							
	LL -2	13.5	13.0							
	LL -2K	13.3	13.2							
	LL -2N	13.5	13.0							
	LL -3	16.4	13.0							
	LL -3K	16.0	14.8							
	LL -3N	16.4	13.0							
	LL -4	16.4	14.7							
	LL -5	17.1	16.7							
LL -5N	17.1	16.7								
	LP -2S	3.65	20.0	-	-	-	-	-	-	
	LP -6S	3.65	25.0	-	-	-	-	-	-	
	LPA -11		11.0							
	LPA -13	2.8	13.0	4.2	-	-	-	-	60°	
	LPA -17		17.0							
	LPF -11		11.0							
	LPF -1113	2.5	13.0	3.5						60°
	LPF -1117		17.0							
	LPF -13	3.8	13.0	5.5						
LPF -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	17.5	3.65						
	WP 5X15		15.0	5.0						
	WP 5X11	M5X0.8	10.5	5.0	-	2.0	-	-	-	
	LSP -1	5.0	5.3							
	LSP -2	6.5	5.6							
	LSP -3	8.25	7.9							
	LSP -2K	5.1	5.2							
	LSP -3K	6.7	5.7							
	P -03	2.8	1.95	-	-	-	-	-	-	
	P -03S	3.5	1.95	-	-	-	-	-	-	



# Shims

Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	<b>DC</b> -44	12.55	5.0	1.5	6.0	4.4	R0.8	-	-	Shim Screw: SB-4085TR
	<b>DD</b> -43	12.55	3.4	1.3	6.0	4.4	R0.8	-	-	Shim Screw: SB-4085TR
	-44		5.0	1.5						
	<b>DS</b> -44	12.55	5.0	1.5	6.0	4.4	R0.8	-	-	Shim Screw: SB-4085TR
	<b>DT</b> -32	8.63	3.2	0.95	5.0	3.4	R1.6	3°	-	Shim Screw: SB-3080TR
	<b>DV</b> -33	9.40	3.5	1.2	6.0	4.4	R1.0	-	-	Shim Screw: SB-4085TR
	<b>DW</b> -44	12.65	5.0	1.5	6.0	4.4	R0.8	-	-	Shim Screw: SB-4085TR
	<b>556</b> C <sup>R/L</sup>	34.0	10.0	12.7	5.6	7.5	1.6	0°	55°	R...shows Right-hand L...shows Left-hand Shim Screw:HH5x16
	<b>KPS</b> -42	11.5	3.2	2.0	7.2	3.2	C1.0	7°	-	Shim Screw:SP3X8
	<b>KPT</b> -32	8.0	3.2	1.9	7.0	3.2	R0.4	11°	-	Shim Screw:SP3X8 SP3X10
	-42	10.5	3.2	1.9	7.0	3.2	R0.8	11°	-	
	<b>KVN</b> -32	9.52	3.2	2.1	7.6	5.5	R0.8	-	-	Lock Pin:LP-2S LP-6S

P

Spare Parts



Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)						Angle (°)		Remarks	
		A	B	C	D	E	F	$\alpha$	$\theta$		
	<b>LC</b>	<b>-32</b>	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-32N</b>	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-4K</b>	11.7	3.2	1.4	8.1	6.73	R0.8	-	-	Shim Pin:LSP-3K
		<b>-42</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
		<b>-42N</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
		<b>-53</b>	15.9	4.8	1.7	10.0	8.0	R1.2	-	-	Shim Pin:LSP-3
	<b>-53N</b>	15.9	4.8	1.7	10.0	8.0	R1.2	-	-	Shim Pin:LSP-3	
	<b>LC</b>	<b>-42<sup>R/L</sup></b>	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
		<b>-42N<sup>R/L</sup></b>	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
	<b>LD</b>	<b>-32</b>	9.47	2.4	1.3	6.18	4.68	R0.4	-	-	Shim Pin:LSP-1
		<b>-32N</b>	9.47	2.4	1.3	6.18	4.68	R0.4	-	-	Shim Pin:LSP-1
		<b>-4K</b>	11.7	3.2	1.4	8.1	6.73	R0.8	-	-	Shim Pin:LSP-3K
		<b>-4K43</b>		4.8	3.0	8.3	6.60	R1.2	-	-	
		<b>-42</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
		<b>-42-20</b>					R2.0	-	-		
	<b>-43</b>	12.65	4.8	3.1	8.5	6.28	R0.8	-	-	Shim Pin:LSP-2	
	<b>-43-20</b>						R2.0	-	-		
	<b>LR</b>	<b>-80</b>	9.47	3.2	1.3	6.25	4.75	-	-	-	Shim Pin:LSP-1
		<b>-81</b>	12.65	3.2	1.5	8.01	6.28	-	-	-	Shim Pin:LSP-2
	<b>LR</b>	<b>-10C</b>	8.5	3.2	6.3	6.3	4.7	-	-	-	Shim Pin:LSP-1
		<b>-12C</b>	10.0	3.2	6.3	6.3	4.7	-	-	-	Shim Pin:LSP-1
		<b>-16C</b>	16.0	3.2	7.9	8.01	6.28	-	-	-	Shim Pin:LSP-2
	<b>LS</b>	<b>-32</b>	9.47	3.2	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-42</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
	<b>LT</b>	<b>-3K</b>	8.53	2.7	1.0	6.1	5.13	R0.8	-	-	Shim Pin:LSP-2K
		<b>-32</b>	9.47	2.7	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-32N</b>	9.47	2.7	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-32N-20</b>						R2.0	-	-	
		<b>-42</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
		<b>-42N</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	
	<b>-42N-20</b>						R2.0	-	-		
	<b>LW</b>	<b>-32</b>	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-32N</b>	9.47	2.4	1.3	6.18	4.68	R0.8	-	-	Shim Pin:LSP-1
		<b>-42</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin:LSP-2
		<b>-42N</b>	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	
	<b>LW</b>	<b>-42<sup>R/L</sup></b>	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
		<b>-42N<sup>R/L</sup></b>	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
	<b>MSD</b>	<b>-42</b>	10.7	3.2	1.85	7.0	3.3	-	20°	45°	Shim Screw:SP3X8
	<b>MSE</b>	<b>-4245S</b>	10.3	3.2	2.0	6.0	5.0	-	20°	45°	Shim Screw:SP4X9
	<b>MSE</b>	<b>-4215</b>	10.53	3.2	1.5	6.4	3.4	-	25°	15°	Shim Screw:SP3X8
		<b>-4245</b>	10.53	3.2	1.5	6.4	3.4	-	25°	45°	Shim Screw:SP3X8

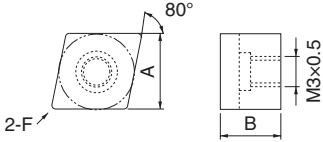
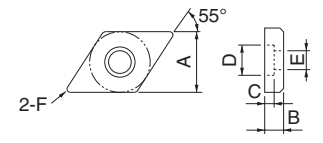
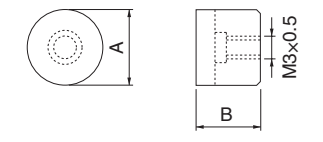
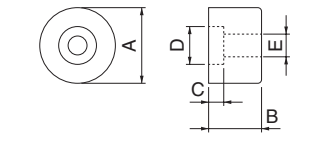
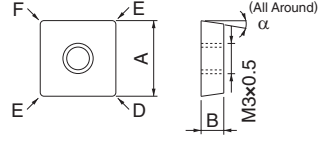
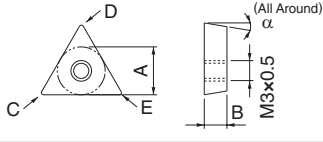
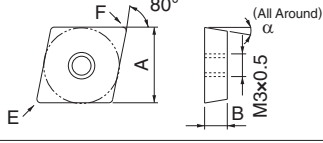
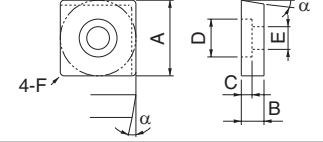
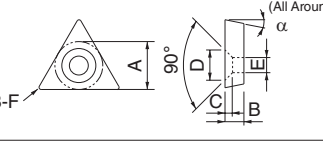
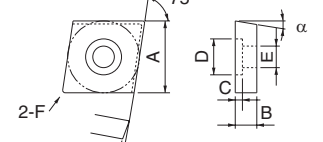
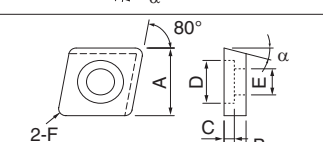
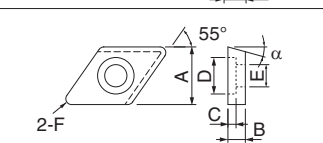


# Shims

Shape	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	<b>MSO -4T245</b>	10.0	2.0	4.7	6.4	4.8	-	27°	45°	Shim Screw:SP3X6
	<b>MSO -5200</b>	12.6	3.2	1.8	8.0	6.5	R0.8	15°	-	Shim Screw:SPW-6045
	<b>MSP -42</b>	11.3	3.2	1.85	7.0	3.3	-	11°	15°	Shim Screw:SP3X8
	<b>MTE -42</b>	9.8	3.2	-	6.4	3.4	-	25°	-	Shim Screw:SP3X8
	<b>MVN -32</b>	9.52	3.2	2.1	7.4	6.5	R0.8	-	-	Lock Pin:TS-3S
	<b>PD -42</b>	12.7	3.2	1.5	6.0	8.4	0.8	12°	-	Shim Screw:SB-2050TR
	<b>SP -129</b>	9.52	9.52	R0.8	R1.6	R1.2	R1.6	-	-	Shim Screw:HH3X12
	<b>SP -141</b>	12.7	4.0	2.4	6.2	3.3	R1.2	-	-	Shim Screw:M3X8
	<b>-143</b>	12.7	7.2	2.4	6.2	3.3	R1.2	-	-	Shim Screw:M3X12
	<b>-162</b>	15.8	6.0	3.4	8.0	4.4	R1.5	-	-	Shim Screw:M4X10
	<b>SP -148</b>	12.7	8.8	2.4	6.2	3.3	R1.2	-	-	Shim Screw:BH3X12
	<b>SP -219</b>	6.35	9.52	R0.8	R1.2	R1.6	-	-	-	Shim Screw:HH3X12
	<b>SP -221</b>	9.52	4.0	2.5	6.5	3.5	R1.2	-	-	Shim Screw:M3X8
	<b>-223</b>	9.52	7.2	2.5	6.5	3.5	R1.2	-	-	Shim Screw:M3X12
	<b>SP -342</b>	12.7	6.0	2.5	6.5	3.5	R1.2	-	75°	Shim Screw:M3X8
	<b>-441</b>	12.7	4.0	2.5	6.5	3.5	R0.8	-	80°	Shim Screw:M3X8
	<b>-443</b>	12.7	7.2	2.5	6.5	3.5	R0.8	-	80°	Shim Screw:M3X12
	<b>-454</b>	15.7	8.0	3.4	8.0	4.5	R1.6	-	80°	Shim Screw:M4X10

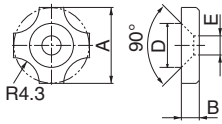
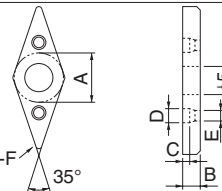
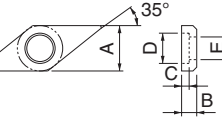
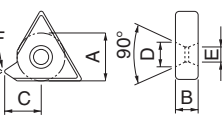
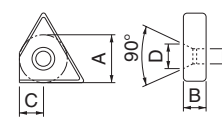
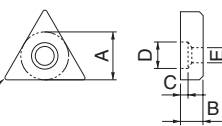
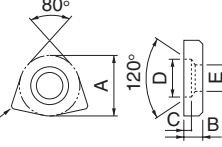
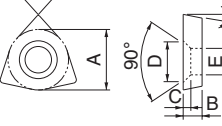
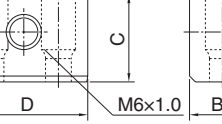
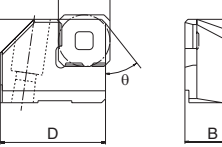
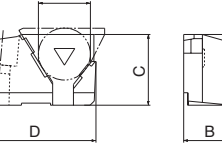
P

Spare Parts

Shape	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	SP -429	9.52	9.52	-	-	-	R1.2	-	-	Shim Screw: HH3X12
	SP -521	10.0	4.0	2.5	6.0	3.4	R1.2	-	-	Shim Screw:M3X8
	-523		7.2							Shim Screw:M3X12
	-541	12.7	4.0	2.5	6.0	3.4	R1.2	-	-	Shim Screw:M3X8
	-543		7.2							Shim Screw:M3X12
	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	12.6	4.0	2.5	6.5	3.5	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	6.3	3.5	R1.2	11°	-	Shim Screw:M3X8
	-443P		7.2							Shim Screw:M3X12
	SP -521P	10.0	4.0	2.5	6.0	3.5	R1.2	11°	-	Shim Screw:M3X8
	-523P		7.2							Shim Screw:M3X12



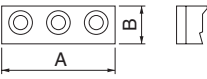
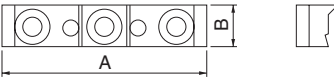
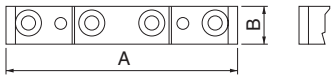
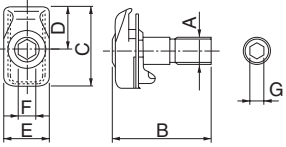
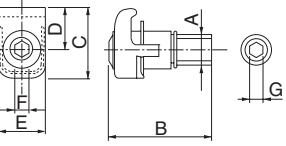
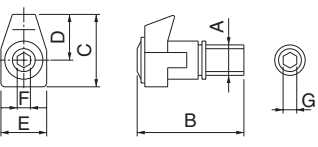
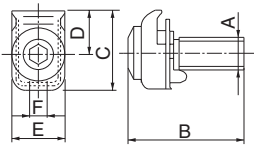
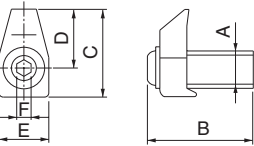
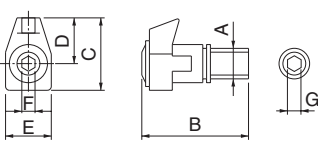
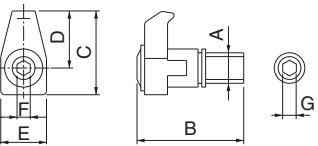
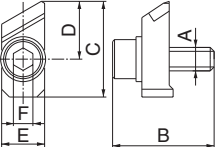
# Shims / Cartridges

Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	<b>SP -RC</b>	12.6	3.0	-	7.35	3.35	-	-	-	Shim Screw:SP3X8
	<b>SVN -32</b>	8.0	3.2	1.5	3.1	2.3	R0.4	-	-	Shim Screw: SB-2050TR
	<b>SVN -32N</b>	8.2	3.2	1.5	7.0	5.9	R0.6	-	-	Shim Screw:SS-4N
	<b>TN -32</b>	9.52	3.2	6.5	7.0	4.2	R0.4	-	-	Shim Screw:SP3X8
	<b>-43</b>	12.70	3.2	8.1	7.0	4.2	R0.5	-	-	
	<b>TNW -32</b>	9.52	3.2	4.8	7.0	4.2	-	-	-	Shim Screw:SP3X8
	<b>WTN -33</b>	9.52	4.76	2.5	7.0	5.3	R0.8	-	-	Shim Pin:WP-1S
	<b>-33-20</b>						R2.0			
	<b>WWN -42</b>	12.7	3.0	1.4	7.0	5.3	R1.2	-	-	Shim Pin:WP5X15
	<b>WWP -42</b>	12.7	3.0	1.5	8.3	5.3	R1.2	11°	-	Shim Pin:WP5X11
	<b>-42-16</b>						R1.6			
	<b>MAP -2506</b>	-	9.5	14.9	20	-	-	5°	-	Clamp Screw: SB-40140TR
	<b>LSD -445R</b>	12.7	13.0	20.0	26.5	-	-	20°	45°	Dimension A shows Insert I.D.
	<b>LSE -445R</b>	12.7	13.0	19.5	26.0	-	-	20°	45°	
	<b>LSO -445R</b>	13.494	12.0	21.3	23.5	-	-	27°	45°	
	<b>LSP -415R</b>	12.7	13.0	18.0	26.0	-	-	15°	15°	
	<b>LTE -490R</b>	12.7	12.0	17.0	30.0	-	-	15°	-	Dimension A shows Insert I.D.

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Spare Parts

# Clamp Sets

Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)							Remarks
		A	B	C	D	E	F	G	
	<b>BCS -1</b>	64.0	13.0	-	-	-	-	-	
	<b>-5</b>	48.0	16.5	-	-	-	-	-	
	<b>BCS -2</b>	74.0	15.0	-	-	-	-	-	
	<b>-3</b>	88.0	16.0	-	-	-	-	-	
	<b>BCS -4</b>	98.0	16.0	-	-	-	-	-	
	<b>CE -010</b>	M8X1.25	28.0	24.0	6.5	13.0	4.0	4.0	G:Indicates hexagon hole two side widths of back side of bolts
	<b>-220</b>			27.0	15.8	15.0			
	<b>CE -020</b>	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
	<b>CE -030</b>	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
	<b>-040</b>			22.5	16.0				
	<b>CE -320</b>	M6X1.0	20.0	18.2	9.7	12.7	4.0	-	
	<b>CE -360S</b>	M6X1.0	16.0	18.0	10.55	12.4	4.0	-	
	<b>CE -030A</b>	M8X1.25	30.0	20.0	13.7	12.7	4.0	-	G:Indicates hexagon hole two side widths of back side of bolts
	<b>CE -410</b>	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
	<b>-430</b>			29.0	22.5				
	<b>CP -RC<sup>R/L</sup></b>	M6X1.0	20.0	24.5	14.8	11.0	5.0	-	R...shows Right-hand L...shows Left-hand

P



Spare Parts

# Clamp Sets

Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)								Remarks
		A	B	C	D	E	F	G		
	<b>CPS -1</b>	M3X0.5	9.0	10.0	5.2	5.5	2.0	-		
	<b>CPS -2</b>	M5X0.8	14.5	14.0	8.5	6.8	2.5	2.5	G:Indicates hexagon hole two side widths of back side of bolts	
	<b>-2P</b>		18.0							
	<b>-3</b>	M6X1.0	19.0	16.5	10.0	8.8	3.0	3.0		
	<b>CPS -2S</b>	M5X0.8	13.5	14.0	8.5	6.8	T15	2.5	G:Indicates hexagon hole two side widths of back side of bolts	
	<b>-2TR</b>		15.0							
	<b>CPS -4V</b>	M4X0.7	8.9	11.3	7.3	8.0	T10	-	G:Indicates hexagon hole two side widths of back side of bolts	
	<b>-5F</b>	M5X0.8	11.3	12.7	7.5	10.3	T15	2.5		
	<b>-5S</b>		18.0	15.0	9.5	11.0				
	<b>-5V</b>		13.5	12.7	7.5	10.3				
	<b>CPS -6F</b>	M6X1.0	16.5	15.6	9.5	12.2	3.0	-	G:Indicates hexagon hole two side widths of back side of bolts	
	<b>-6M</b>		18.5	17.5	11.0	13.0				
	<b>-6S</b>			18.0	12.0	12.0				
	<b>-6V</b>			15.6	9.5	12.2				
	<b>-8V</b>	M8X1.25	24.0	20.8	13.0	15.5	4.0	4.0		
	<b>CPS -5E</b>	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	
	<b>CPS -5%L</b>	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	
	<b>LGBA -16%L</b>	M5X0.8	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	
	<b>-22%L</b>			17.6	12.7					
	<b>WCS -1N</b>	M6X1.0	21.0	16.7	-	15.0	3.0	-		
	<b>WCS -8</b>	M6X1.0	21.0	19.4	-	15.0	3.0	-		

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Spare Parts

# Clamps

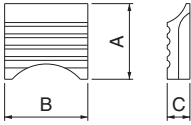
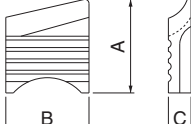
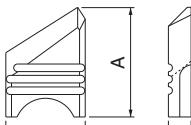
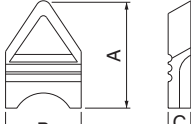
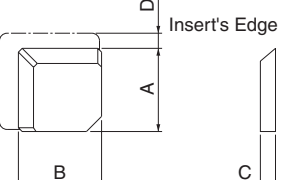
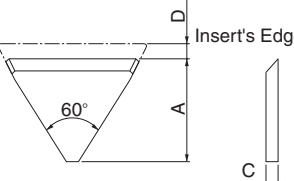
Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)						Angle (°)		Remarks	
		A	B	C	D	E	F	a	q		
	<b>C 17R</b>	12.2	19.5	14.3	8.5	M8X1.25 (L-hand Thread)	-	12°	-	Clamp Screw: W8X18	
	<b>C 20R</b>	15.1	15.5	15.0	7.5	5.3	-	10°	-	Clamp Screw: TH8X15	
	<b>CH -20R</b>	13.1	15.5	14.8	7.5	5.3	-	10°	-	Clamp Screw: TH8X15	
	<b>C 25R</b>	13.2	15.5	15.0	7.5	5.3	-	10°	-	Clamp Screw: TH8X15	
	<b>CE -111</b>	35.0	25.0	10.0	8.0	10.0	-	-	-	Right-hand	
	<b>-121</b>									3.0	Left-hand
	<b>-131</b>									4.5	Right-hand
	<b>-141</b>										Left-hand
	<b>CGA -3<sup>P/L</sup></b>	24.0	17.66	12.0	6.2	1.9	11.0	-	-	R...shows Right-hand L...shows Left-hand	
	<b>-4<sup>P/L</sup></b>	24.0	17.66	12.0	6.2	2.9	11.0	-	-		
	<b>-5<sup>P/L</sup></b>	27.5	18.66	12.0	6.2	3.9	14.5	-	-		
	<b>CGB <sup>P/L</sup></b>	19.0	14.0	8.2	6.35	9.5	-	-	-	R...shows Right-hand L...shows Left-hand	
	<b>CGH -1<sup>P/L</sup></b>	25.0	22.0	8.0	6.05	3.0	5.5	-	-	R...shows Right-hand L...shows Left-hand	
	<b>-2<sup>P/L</sup></b>	29.0	23.0	8.5		5.0					
	<b>-3<sup>P/L</sup></b>	29.0	23.0	8.5		6.0	6.0				
	<b>CGIA -3R</b>	10.7	17.0	10.5	5.2	1.8	2.0	-	-		
	<b>-4R</b>					2.5					
	<b>-5R</b>					15.7	3.5				7.0
	<b>CP -2D</b>	-	11.2	21.6	-	10.4	-	-	-		
	<b>-3D</b>	-	12.0	27.6	-	14.0	-	-	-		
	<b>-5D</b>	-	13.0	32.0	-						
	<b>CP -8TE</b>	17.9	12.0	12.0	M8X1.25 (L-hand Thread)	10.0	-	15°	-		
	<b>CP -8W</b>	20.9	12.0	8.0	M8X1.25 (L-hand Thread)	13.0	-	3°	-		

P



Spare Parts

# Chipbreakers

Shape Handed Spare Parts show Right-hand	Description	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	$\alpha$	$\theta$	
	<b>CB -11</b>	11.5	12.7	3.5	-	-	-	-	-	
	<b>-51</b>	16.0	15.6	3.5	-	-	-	-	-	
	<b>CB -12</b>	13.8	12.7	3.5	-	-	-	-	-	Right-hand
	<b>-13</b>	13.8	12.7	3.5	-	-	-	-	-	Left-hand
	<b>CB -14</b>	18.51	12.7	3.5	-	-	-	-	-	Right-hand
	<b>-15</b>	18.51	12.7	3.5	-	-	-	-	-	Left-hand
	<b>CB -16</b>	18.0	12.7	3.5	-	-	-	-	-	
	<b>-17</b>	21.0	15.6	3.5	-	-	-	-	-	
	<b>CB -S3220</b>	7.94	7.94	1.0	2.0	-	-	-	-	
	<b>-S4220</b>	11.12	11.12	2.0	2.0	-	-	-	-	
	<b>CB -T2212</b>	7.48	-	1.5	1.2	-	-	-	-	
	<b>-T3220</b>	10.87	-	2.0	2.0	-	-	-	-	

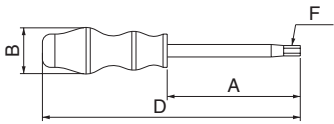
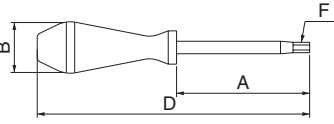
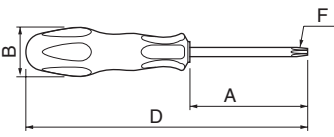
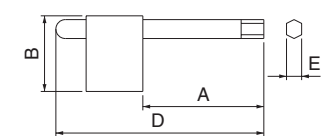
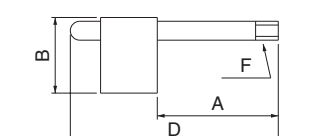
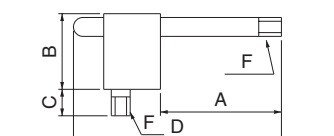
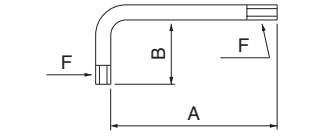
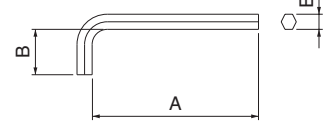
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Spare Parts



# Wrenches

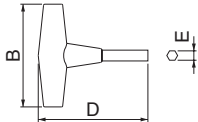
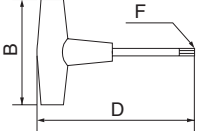
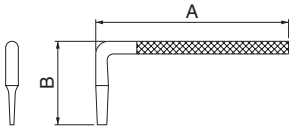
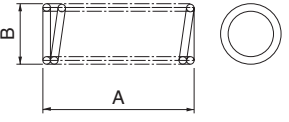
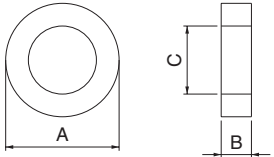
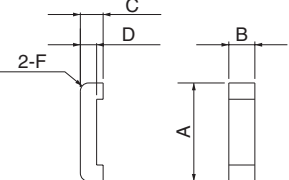
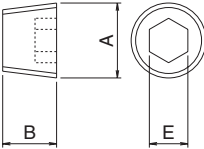
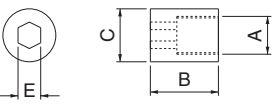
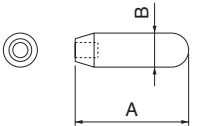
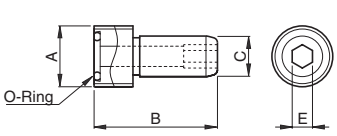
Shape	Description	Dimension (mm)						Angle (°)		Remarks	
		A	B	C	D	E	F	$\alpha$	$\theta$		
	<b>DT -7</b>	44	16	-	114	-	T7	-	-	Torx	
	<b>-8</b>	70	26	-	150	-	T8	-	-		
	<b>DT -10</b>	70	29	-	160	-	T10	-	-	Torx	
	<b>-15</b>	70	32	-	170	-	T15	-	-		
	<b>-20</b>	90	32	-	190	-	T20	-	-		
	<b>-25</b>	82	36	-	190	-	T25	-	-		
	<b>DTM -6</b>	39	17	-	113	-	T6	-	-	Top of wrench is magnetized	
	<b>-7</b>	40	17	-	115	-	T7	-	-		
	<b>-8</b>	70	24	-	150	-	T8	-	-		
	<b>-10</b>	70	28	-	167	-	T10	-	-		
	<b>-15</b>	70	31	-	174	-	T15	-	-		
	<b>DTP -9</b>	61	30	-	174	-	9IP	-	-	OOIP shows Torx Plus	
	<b>-15</b>	81	33	-	186	-	15IP	-	-		
	<b>-20</b>	100	33	-	206	-	20IP	-	-		
	<b>DTPM -8</b>	70	24	-	150	-	8IP	-	-	OOIP shows Torx Plus Top of wrench is magnetized	
	<b>-15</b>	70	31	-	174	-	15IP	-	-		
	<b>FH -2</b>	42	20	-	73	2.0	-	-	-	Hexagon	
	<b>-2.5</b>	42	20	-	73	2.5	-	-	-		
	<b>FT -6</b>	30	20	-	65	-	T6	-	-	Torx	
	<b>-7</b>	34	15	-	62	-	T7	-	-		
	<b>-8</b>	35	20	-	74	-	T8	-	-		
	<b>-10</b>	40	20	-	74	-	T10	-	-		
	<b>FT -15</b>	43	25	10	80	-	T15	-	-	Torx	
	<b>LTP -10</b>	51	17	-	-	-	10IP	-	-	OOIP shows Torx Plus	
	<b>-15</b>	54	18	-	-	-	15IP	-	-		
	<b>LTW -8SS</b>	45	6	-	-	-	-	T8	-	-	Torx
	<b>-10S</b>	65	10	-	-	-	-	T10	-	-	
	<b>-10SS</b>	50	7	-	-	-	-	T10	-	-	
	<b>-15S</b>	65	10	-	-	-	-	T15	-	-	
<b>-20</b>	57	20	-	-	-	-	T20	-	-		
	<b>LW -1.5</b>	45	14	-	-	1.5	-	-	-	Hexagon	
	<b>-2</b>	50	16	-	-	2.0	-	-	-		
	<b>-2.5</b>	56	18	-	-	2.5	-	-	-		
	<b>-3</b>	63	20	-	-	3.0	-	-	-		
	<b>-4</b>	70	25	-	-	4.0	-	-	-		
	<b>-4.5</b>	78	26	-	-	4.5	-	-	-		
	<b>-5</b>	80	28	-	-	5.0	-	-	-		
	<b>-6</b>	90	32	-	-	6.0	-	-	-		
	<b>-8</b>	109	36	-	-	8.0	-	-	-		
	<b>-10</b>	112	40	-	-	10.0	-	-	-		
	<b>-14</b>	140	56	-	-	14.0	-	-	-		
	<b>-17</b>	160	63	-	-	17.0	-	-	-		
	<b>-19</b>	180	70	-	-	19.0	-	-	-		

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Spare Parts

# Wrenches / Springs / Nuts / Punches / Others

Shape	Description	Dimension (mm)						Angle (°)		Remarks					
		A	B	C	D	E	F	$\alpha$	$\theta$						
	<b>TH -4</b>	-	80	-	83	4.0	-	-	-	Hexagon					
	<b>TT -15</b>	-	70	-	138	-	T15	-	-	Torx					
	<b>-25</b>		70		70		T25								
	<b>-25L</b>		80		145		T25								
	<b>-30</b>		80		110		T30								
	<b>TTC -20</b>	-	98	-	130	-	T20	-	-						
	<b>-25</b>		T25												
<b>TTP -20</b>	-	70	-	138	-	20IP	-	-	OOIP shows Torx Plus						
	<b>LTK -5</b>	70	30	-	-	-	-	-	-						
	<b>SP -2D</b>	8.5	5.6	-	-	-	-	-	-	Spring					
	<b>-3D</b>	12.0	7.0												
	<b>-5</b>	12.0	6.7												
	<b>-5D</b>	12.0	7.2												
	<b>-6</b>	12.0	7.7												
	<b>-8</b>	11.0	9.7												
	<b>W -6</b>	11.5	1.6	6.4	-	-	-	-	-	Washer					
	<b>6-14</b>	11.5	1.4	6.4											
	<b>-8</b>	15.5	1.6	8.4											
	<b>WB -5</b>	10.0	1.0	5.3						-	-	-	-	-	Washer (Brass)
	<b>-6</b>	11.5	1.6	6.4											
<b>-8</b>	15.5	1.6	8.4												
	<b>WSP -1</b>	15.1	4.0	3.5	2.5	-	R1.25	-	-	Spacer					
	<b>GP -1</b>	PT1/8	7.0	-	-	5.0	-	-	-	Plug					
	<b>-2</b>	PT1/4	9.0	-	-	6.0	-	-	-						
	<b>WN -1</b>	M5X8	10.0	7.0	-	3.0	-	-	-	Nut					
	<b>PC -1</b>	60.0	8.5	-	-	-	-	-	-	Punch					
	<b>-2</b>	65.0	10.0	-	-	-	-	-	-						
	<b>CL 63-1</b>	M18X1.0	36.5	12	-	6.0	-	-	-	Coolant Pipe					
	<b>100-1</b>	M24X1.5	44.0	16.0		8.0									

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Spare Parts