

SPARE PARTS



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SPARE PARTS	
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P2 - P5

Screws

A	GRADES	Insert	Part Number	Dimension (mm)						Angle (°)		Torque (N • m)	Remarks
				A	B	C	D	E	F	α	θ		
A	GRADES		HH 5X16	M5X0.8	16.0	8.5	5.0	4.0	-	-	-		
			5X25	M5X0.8	25.0	8.5	5.0	4.0	-	-	-		
B	INSERTS		HS 3X4P	M3X0.5	3.9	-	-	1.5	-	-	-	1.0	HS4X4P and HS6X4P have a flat edge Shim screw equivalent to JIS B-1101
			4X4P	M4X0.7	3.9	-	-	2.0	-	-	-	2.0	
			6X4P	M6X0.75	3.9	-	-	3.0	-	-	-	4.0	
			HS 3X4	M3X0.5	4.0	-	-	1.5	-	-	-	1.0	
C	CBN & PCD		HSB 4X8%	M4X0.7	8.0	R2.0	-	2.0	-	-	2.0	R...shows Right-hand Thread L...shows Left-hand Thread	
E	TURNING		LS -1N	M6X1.0	17.0	6.0	-	2.5	2.5	-	-	3.0	N:Silver coated
			-2N	M8X1.0	20.0	8.0	-	3.0	3.0	-	-	4.0	
F	BORING		SB -1TR	M2X0.4	5.3	3.8	-	-	T6	-	82°	0.5	R...shows Right-hand Thread
			-2TR	M2.5X0.45	6.2	4.5	-	-	T8	-	82°	1.2	
			-3.5TR	M3.5X0.6	9.3	5.6	-	-	T15	-	82°	3.5	
			-5TR	M5X0.8	20.0	8.7	-	-	T20	-	90°	4.5	
			-5090TR	M5X0.8	9.0	6.8	-	-	T20	-	60°	4.5	
G	GROOVING		SB -1635TR	M1.6X0.35	3.3	2.6	-	-	T6	-	60°	0.5	R...shows Right-hand Thread ○○IP shows Torx Plus
			-1STR	M2X0.4	5.0	3.1	-	-	T6	-	60°	0.5	
			-2035TR	M2X0.4	3.7	3.0	-	-	T6	-	60°	0.5	
			-2035TRG	M2X0.4	3.5	2.7	-	-	T6	-	60°	0.5	
			-2040TR	M2X0.4	3.8	3.0	-	-	T6	-	60°	0.5	
			-2042TRG	M2X0.4	4.1	2.7	-	-	T6	-	60°	0.5	
			-2045TRN	M2X0.4	4.3	2.8	-	-	T6	-	37°	0.5	
			-2050TR	M2X0.4	4.8	3.0	-	-	T6	-	60°	0.5	
			SB -2250TR	M2.2X0.45	5.1	3.1	-	-	T7	-	60°	0.8	
			-2255TR	M2.2X0.45	5.5	3.5	-	-	T7	-	60°	0.8	
			SB -2545TR	M2.5X0.45	4.6	3.5	-	-	T8	-	60°	1.2	
			-2555TRG	M2.5X0.45	5.4	3.5	-	-	T8	-	60°	1.2	
			-2560TR	M2.5X0.45	5.7	3.5	-	-	T8	-	60°	1.2	
			-2570TR	M2.5X0.45	6.8	3.5	-	-	T8	-	60°	1.2	
			H	CUT-OFF		SB -3060TR	M3X0.5	5.3	4.2	-	-	T10	
-3065TRP	M3X0.5	6.5				4.0	-	-	8IP	-	60°	1.2	
-3080TR	M3X0.5	8.0				4.2	-	-	T10	-	60°	2.0	
SB -4050TRN	M4X0.5	4.6				5.1	-	-	T10	-	57°	2.0	
-4065TR	M4X0.7	6.7				5.5	-	-	T15	-	60°	3.5	
I	MILLING		-4070TRS	M4X0.7	6.7	5.5	-	-	T10	-	60°	2.0	
			-4085TR	M4X0.7	8.5	5.5	-	-	T15	-	60°	3.5	
			-40120TR	M4X0.7	12.0	5.1	-	-	T15	-	60°	3.5	
			-40125TRN	M4X0.7	12.5	5.2	-	-	T15	-	50°	3.5	
			SB -4070TRW	M4X0.7	6.7	5.5	-	-	T8	-	60°	1.2	
J	THREADING		-4590TRWN	M4.5X0.75	9.3	5.6	-	-	T10	-	57°	2.0	R...shows Right-hand Thread
			SE -40120TR	M4X0.7	12.0	5.6	-	-	T15	-	60°	3.5	
K	INDEX		-50125TR	M5X0.8	12.5	6.4	-	-	T20	-	60°	4.5	
			SP 3X4	M3X0.5	4.0	4.0	-	-	-	-	90°	-	With additional machining below the filister head
L	SOLID END MILLS		3X8	M3X0.5	8.0	4.0	-	-	-	-	90°	-	Cross recessed flat head screw equivalent to JIS...B-1111

Reference

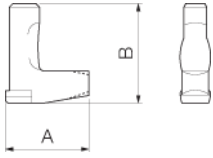
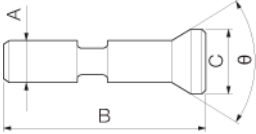
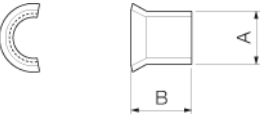
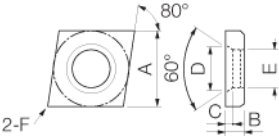
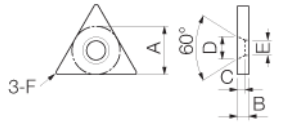
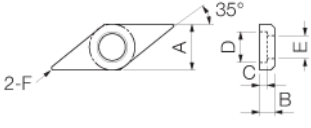
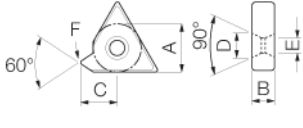

Torx and Torx Plus have different cross-section.



Torx

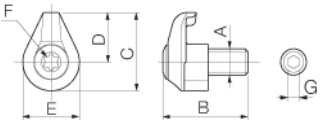
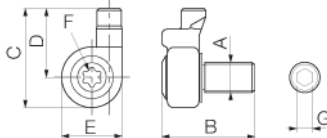
Torx Plus

■ Pins / Shims

Insert	Part Number	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	α	θ	
	LL -1N	10.30	12.0	-	-	-	-	-	-	
	-2N	13.50	13.0	-	-	-	-	-	-	
	LPA -11	2.80	11.0	4.2	-	-	-	-	60°	
	-13	2.80	13.0	4.2	-	-	-	-	60°	
	-17	2.80	17.0	4.2	-	-	-	-	60°	
	LPF -11	2.50	11.0	3.5	-	-	-	-	60°	
	-1113	2.50	13.0	3.5	-	-	-	-	60°	
	-1117	2.50	17.0	3.5	-	-	-	-	60°	
	-13	3.80	13.0	5.5	-	-	-	-	60°	
-17	3.80	17.0	5.5	-	-	-	-	60°		
	LSP -1	5.00	5.3	-	-	-	-	-	-	
	-2	6.50	5.6	-	-	-	-	-	-	
	LC -42N	12.65	3.2	1.5	8.01	6.28	R0.8	-	-	Shim Pin: LSP-2
	LT -32N	9.47	2.7	1.3	6.18	4.68	R0.8	-	-	Shim Pin: LSP-1
	-32N-20	9.47	2.7	1.3	6.18	4.68	R2.0	-	-	
	SVN -32N	8.20	3.2	1.5	7.00	5.90	R0.6	-	-	Shim Screw: SS-4N
	TN -32	9.52	3.2	6.5	7.00	4.20	R0.4	-	-	Shim Screw: SP3X8
	SS -4N	M5.5X0.5	8.5	6.6	M4X0.7	4.00	-	-	-	A...External Thread / D...Internal Thread Both A and D are Right-hand Thread

GRADES	A
INSERTS	B
CBN & POD	C
TURNING	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
SOLID END MILLS	L
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Clamp Sets

A	GRADES	Insert Handed Spare Parts show Right-hand	Part Number	Dimension (mm)						Remarks	
				A	B	C	D	E	F		G
B	INSERTS		CPS -5S	M5X0.8	18.0	15.0	9.5	11.00	T15	2.5	G: Indicates hexagon hole two side widths of back side of bolts
C	CBN & PCD		LGBA -16% S	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
E	TURNING		-22% S	M5X0.8	15.0	17.6	12.7	9.85	T15	2.0	

- A GRADES
- B INSERTS
- C CBN & PCD
- E TURNING
- F BORING
- G GROOVING
- H CUT-OFF
- J THREADING
- L SOLID END MILLS
- M MILLING
- P SPARE PARTS**
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Wrenches and other spare parts

Insert	Part Number	Dimension (mm)						Angle (°)		Remarks
		A	B	C	D	E	F	α	θ	
	DT -7	44.0	16.0	-	114	-	T7	-	-	Torx
	DTM -6	39.0	17.0	-	113	-	T6	-	-	Top of Torx is magnetized
	-8	70.0	24.0	-	150	-	T8	-	-	
	DTPM -8	70.0	24.0	-	150	-	8IP	-	-	⊙OIP shows Torx Plus Top of Torx is magnetized
	FH -2	42.0	20.0	-	73	2.0	-	-	-	Hexagon
	-2.5	42.0	20.0	-	73	2.5	-	-	-	
	FT -5									Torx
	-6	30.0	20.0	-	65	-	T6	-	-	
	-7	34.0	15.0	-	62	-	T7	-	-	
	-8	35.0	20.0	-	74	-	T8	-	-	
	-10	40.0	20.0	-	74	-	T10	-	-	
	FT -15	43.0	25.0	10	80	-	T15	-	-	Torx
	LTW -8SS	45.0	6.0	-	-	-	T8	-	-	Torx
	-10S	65.0	10.0	-	-	-	T10	-	-	
	-10SS	50.0	7.0	-	-	-	T10	-	-	
	-15S	65.0	10.0	-	-	-	T15	-	-	
	-20	57.0	20.0	-	-	-	T20	-	-	
	LW -1.5	45.0	14.0	-	-	1.5	-	-	-	Hexagon
	-2	50.0	16.0	-	-	2.0	-	-	-	
	-3	63.0	20.0	-	-	3.0	-	-	-	
	-4	70.0	25.0	-	-	4.0	-	-	-	
	LTK -5	70.0	30.0	-	-	-	-	-	-	
	PC -1	60.0	8.5	-	-	-	-	-	-	Punch
	-2	65.0	10.0	-	-	-	-	-	-	

GRADES	A
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CBN & POD	C
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