

Parallel Keys / Tapered Machine Keys with Gib Head Blank Type

Screw Plugs

Parallel Keys RoHS 10 **KET**

JIS B 1301-1996 (New JIS Standard)

Type	Material	Tensile Strength
KET	S45C	600N/mm ² or More

Part Number	Tolerance (h9)	H Tolerance	C
3	0	0	0.16-0.25
4	-0.025	0	
5	0	-0.030	
6	-0.030	0	0.25-0.40
7	0	-0.036	
8	-0.036	0	
10	0	-0.090	0.40-0.60

Part Number	Tolerance (h9)	H Tolerance	C
12	0	0	
14	0	0	
15	-0.043	-0.090	0.40-0.60
16	0	-0.110	
18	0	0	

Ordering Example
Part Number **KET10**

Parallel Keys - Stainless Steel RoHS 10 **KETS**

JIS B 1301-1996 (New JIS Standard)

Type	Material	Tensile Strength
KETS	SUS316	600N/mm ² or More

Part Number	Type	B	H	C
2		2		0.2
3		3		
4		4		
5		5		
6		6		0.3
7		7		
8		8		
10		10		0.5
12		12		
14		14		

Ordering Example
Part Number - H
KETS8 - 7

Tapered Machine Keys with Gib Head RoHS 10 **KTH**

JIS B 1301-1996 (New JIS Standard)

Type	Material	Tensile Strength
KTH	S45C	600N/mm ² or More

Part Number	Type	Bh9	h	L	h1	h2, f	(e)	C
4		4	0	30	7	4	4	0.16-0.25
5		5	-0.030	40	8	5	5	
6		6	0	45	10	6	6	0.25-0.40
7		7	0	50	7	7	7	
8		8	-0.036	60	11	7	8	
10		10	0	75	8	8	10	
12		12	0	90	12	8	12	
14		14	0	110	14	9	14	0.40-0.60
15		15	0	110	15	10	15	
16		16	-0.043	120	16	10	16	
18		18	0	135	18	11	18	
20		20	0	150	20	12	20	
22		22	0	170	22	14	22	
24		24	0	180	24	16	24	0.60-0.80
25		25	-0.052	200	22	14	25	
28		28	0	210	25	16	28	
32		32	0	240	28	18	32	
35		35	0	260	32	22	35	
36		36	-0.062	280	20	36	36	1.00-1.20
38		38	0	285	36	24	38	

Ordering Example
Part Number **KTH12**

Alterations
Part Number - (LC)
KTH10 - LC60

Alteration	Code	Spec.																				
L Dimension Change	LC	LC=1mm Increment LC (Min.)=LCxL For LC (Min.), see below																				
		<table border="1"> <thead> <tr> <th>B</th> <th>LC (Min.)</th> </tr> </thead> <tbody> <tr><td>4, 5</td><td>10</td></tr> <tr><td>6, 7, 8</td><td>15</td></tr> <tr><td>10, 12</td><td>20</td></tr> <tr><td>14, 15, 16</td><td>22</td></tr> <tr><td>18, 20</td><td>25</td></tr> <tr><td>22, 24, 25</td><td>30</td></tr> <tr><td>28</td><td>35</td></tr> <tr><td>32, 35, 36</td><td>40</td></tr> <tr><td>38</td><td>45</td></tr> </tbody> </table>	B	LC (Min.)	4, 5	10	6, 7, 8	15	10, 12	20	14, 15, 16	22	18, 20	25	22, 24, 25	30	28	35	32, 35, 36	40	38	45
B	LC (Min.)																					
4, 5	10																					
6, 7, 8	15																					
10, 12	20																					
14, 15, 16	22																					
18, 20	25																					
22, 24, 25	30																					
28	35																					
32, 35, 36	40																					
38	45																					

MSW RoHS 10 **MSWA** **MSWZ**

JIS B 0207 Class 2

Part Number	dz max.
MSW3	1.4
MSW4	2.0
MSW5	2.5

Material: MSW SCM435(M2.5-10) S45C(M12-45)
MSWA, MSWZ S45C
Hardness: 34-43HRC
Surface Treatment: Black Oxide (JIS B 0207 Class 2)

Standard Type

MxP	L	B	t	Part Number	Type	M
2.5	0.45	3	1.3	1.2	2.5	
3	0.5	3	1.5		3*	
4	0.7	4	2	1.5	4*	
5	0.8	5	2.5	2	5*	
6	1.0	6	3	3.5	6	
8	1.25	8	4	5	8	
10	1.5		5	6	10	
12		10	6	5	12	
14			8		14	
16			10		16	
18			10		18	
20			12		20	
22			12		22	
24			12		24	
25			12		25	
26	1.5	12	14	6	26	
27	(Fine)				27	
28					28	
30					30	
33					33	
36					36	
38					38	
40		18	10		40	
42					42	
45					45	

* The tip of MSW3, 4, 5 is a cut point.

MSWA (Through Hole)

MxP	L	B	Part Number	Type	M
8	1.25	8	4	8	
10	1.5		5	10	
12		10	6	12	
14			8	14	
16			8	16	
18			10	18	
20			10	20	
22			12	22	
24	1.5	12	14	24	
25	(Fine)			25	
26				26	
27				27	
28				28	
30				30	
33				33	

MSWZ (With Washer)

MxP	L	B	H	t	C	Part Number	Type	M
6	1.0	8	3	9		6		
8	1.25	10	4	11		8		
10	1.5		5	13		10		
12		12	6	15		12		
14			8	17		14		
16			8	19		16		
18			10	21		18		
20			10	23		20		
22			12	25		22		
24	1.5	12	14	27		24		
25	(Fine)			29		25		
26				31		26		
27				30		27		
28				31		28		
30				33		30		
33				36		33		

Short Type

MxP	L	B	t	Part Number	Type	M-L
8	1.25	4		8-6		
10	1.5	5		10-6		
12		6	3	12-6		
14		6		14-6		
16		8		16-6		
18		10		18-6		
20		10		20-8		
22		12		22-8		
24				24-8		
25	(Fine)			25-8		
26		8	4	26-8		
27				27-8		
28				28-8		
30				30-8		
33		17		33-8		

MSWAS (Through Hole Short)

MxP	L	B	Part Number	Type	M-L
8	1.25	4	8-6		
10	1.5	5	10-6		
12		6	12-6		
14		6	14-6		
16		8	16-6		
18		10	18-6		
20		10	20-8		
22		12	22-8		
24			24-8		
25	(Fine)		25-8		
26		8	26-8		
27			27-8		
28			28-8		
30			30-8		
33		17	33-8		

MSWZS (With Washer Short)

MxP	L	B	H	t	C	Part Number	Type	M-L
10	1.5	5	13			10-10		
12		6	15			12-10		
14		8	17			14-10		
16		8	19			16-10		
18		10	21			18-10		
20		10	23			20-10		
22		12	25			22-10		
24		12	27			24-10		
25	(Fine)		28			25-10		
26		14	29			26-10		
27			30			27-10		
28			31			28-10		
30			33			30-12		
33		12	33	5		33-12		

Short Type has shorter L dimension and fewer threads, compared with the standard type (MSW, MSWA, MSWZ). Before use, check the load applied to the screw plug and the material of the plate to be tapped.

Ordering Example
Part Number **MSW18**
MSWZS18-6