

はめあいの寸法許容差 (JIS B0401-1998 抜粋) Deviations of Fits (JIS B0401 Extract)

常用するはめあいの軸で用いる寸法許容差 (単位: μm) Deviation of Shafts to be Used in Commonly Used Fits (Unit: μm)

標準寸法の区分 (mm) Basic size step (mm)		軸の公差域クラス WORK MATERI Tolerance zone class of shaft																				
越え Over	以下 Up to	e7	e8	e9	f6	f7	f8	g5	g6	h5	h6	h7	h8	h9	js5	js6	js7	k5	k6	m5	m6	n6
—	3	-14 -24	-14 -28	-14 -39	-6 -12	-6 -16	-6 -20	-2 -6	-2 -8	0 -4	0 -6	0 -10	0 -14	0 -25	±2	±3	±5	+4 0	+6 0	+6 +2	+8 +2	+10 +4
3	6	-20 -32	-20 -38	-20 -50	-10 -18	-10 -22	-10 -28	-4 -9	-4 -12	0 -5	0 -8	0 -12	0 -18	0 -30	±2.5	±4	±6	+6 +1	+9 +1	+9 +4	+12 +4	+16 +8
6	10	-25 -40	-25 -47	-25 -61	-13 -22	-13 -28	-13 -35	-5 -11	-5 -14	0 -6	0 -9	0 -15	0 -22	0 -36	±3	±4.5	±7	+7 +1	+10 +1	+12 +6	+15 +6	+19 +10
10	14	-32	-32	-32	-16	-16	-16	-6	-6	0	0	0	0	0	±4	±5.5	±9	+9	+12	+15	+18	+23
14	18	-50	-59	-75	-27	-34	-43	-14	-17	-8	-11	-18	-27	-43	±4	±5.5	±9	+1	+1	+7	+7	+12
18	24	-40	-40	-40	-20	-20	-20	-7	-7	0	0	0	0	0	±4.5	±6.5	±10	+11	+15	+17	+21	+28
24	30	-61	-73	-92	-33	-41	-53	-16	-20	-9	-13	-21	-33	-52	±4.5	±6.5	±10	+2	+2	+8	+8	+15
30	40	-50	-50	-50	-25	-25	-25	-9	-9	0	0	0	0	0	±5.5	±8	±12	+13	+18	+20	+25	+33
40	50	-75	-89	-112	-41	-50	-64	-20	-25	-11	-16	-25	-39	-62	±5.5	±8	±12	+2	+2	+9	+9	+17
50	65	-60	-60	-60	-30	-30	-30	-10	-10	0	0	0	0	0	±6.5	±9.5	±15	+15	+21	+24	+30	+39
65	80	-90	-106	-134	-49	-60	-76	-23	-29	-13	-19	-30	-46	-74	±6.5	±9.5	±15	+2	+2	+11	+11	+20
80	100	-72	-72	-72	-36	-36	-36	-12	-12	0	0	0	0	0	±7.5	±11	±17	+18	+25	+28	+35	+45
100	120	-107	-126	-159	-58	-71	-90	-27	-34	-15	-22	-35	-54	-87	±7.5	±11	±17	+3	+3	+13	+13	+23
120	140	-85	-85	-85	-43	-43	-43	-14	-14	0	0	0	0	0	±9	±12.5	±20	+21	+28	+33	+40	+52
140	160	-125	-148	-185	-68	-83	-106	-32	-39	-18	-25	-40	-63	-100	±9	±12.5	±20	+3	+3	+15	+15	+27
160	180																					
180	200	-100	-100	-100	-50	-50	-50	-15	-15	0	0	0	0	0	±10	±14.5	±23	+24	+33	+37	+46	+60
200	225	-146	-172	-215	-79	-96	-122	-35	-44	-20	-29	-46	-72	-115	±10	±14.5	±23	+4	+4	+17	+17	+31
225	250																					

表中の上側の数値は上の寸法許容差、下側の数値は下の寸法許容差を示す。  
in every step given in the table, the value on the upper side shows the upper deviation and the value on the lower side, the lower deviation.

常用するはめあいで用いる穴の寸法許容差 (単位: μm) Deviation of Holes to be Used in Commonly Used Fits (Unit: μm)

標準寸法の区分 (mm) Basic size step (mm)		穴の公差域クラス Tolerance zone class of hole																				
越え Over	以下 Up to	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7
—	3	+24 +14	+28 +14	+39 +14	+12 +6	+16 +6	+20 +6	+8 +2	+12 +2	+6 0	+10 0	+14 0	+25 0	+40 0	±3	±5	0 -6	0 -10	-2 -8	-2 -12	-4 -10	-4 -14
3	6	+32 +20	+38 +20	+50 +20	+18 +10	+22 +10	+28 +10	+12 +4	+16 +4	+8 0	+12 0	+18 0	+30 0	+48 0	±4	±6	+2 -6	+3 -9	-1 -9	0 -12	-5 -13	-4 -16
6	10	+40 +25	+47 +25	+61 +25	+22 +13	+28 +13	+35 +13	+14 +5	+20 +5	+9 0	+15 0	+22 0	+36 0	+58 0	±4.5	±7	+2 -7	+5 -10	-3 -12	0 -15	-7 -16	-4 -19
10	14	+50	+59	+75	+27	+34	+43	+17	+24	+11	+18	+27	+43	+70	±5.5	±9	+2	+6	-4	0	-9	-5
14	18	+32	+32	+32	+16	+16	+16	+6	+6	0	0	0	0	0	±5.5	±9	-9	-12	-15	-18	-20	-23
18	24	+61	+73	+92	+33	+41	+53	+20	+28	+13	+21	+33	+52	+84	±6.5	±10	+2	+6	-4	0	-11	-7
24	30	+40	+40	+40	+20	+20	+20	+7	+7	0	0	0	0	0	±6.5	±10	-11	-15	-17	-21	-24	-28
30	40	+75	+89	+112	+41	+50	+64	+25	+34	+16	+25	+39	+62	+100	±8	±12	+3	+7	-4	0	-12	-8
40	50	+50	+50	+50	+25	+25	+25	+9	+9	0	0	0	0	0	±8	±12	-13	-18	-20	-25	-28	-33
50	65	+90	+106	+134	+49	+60	+76	+29	+40	+19	+30	+46	+74	+120	±9.5	±15	+4	+9	-5	0	-14	-9
65	80	+60	+60	+60	+30	+30	+30	+10	+10	0	0	0	0	0	±9.5	±15	-15	-21	-24	-30	-33	-39
80	100	+107	+126	+159	+58	+71	+90	+34	+47	+22	+35	+54	+87	+140	±11	±17	+4	+10	-6	0	-16	-10
100	120	+72	+72	+72	+36	+36	+36	+12	+12	0	0	0	0	0	±11	±17	-18	-25	-28	-35	-38	-45
120	140																					
140	160	+125	+148	+185	+68	+83	+106	+39	+54	+25	+40	+63	+100	+160	±12.5	±20	+4	+12	-8	0	-20	-12
160	180	+85	+85	+85	+43	+43	+43	+14	+14	0	0	0	0	0	±12.5	±20	-21	-28	-33	-40	-45	-52
180	200																					
200	225	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	±14.5	±23	+5	+13	-8	0	-22	-14
225	250	+100	+100	+100	+50	+50	+50	+15	+15	0	0	0	0	0	±14.5	±23	-24	-33	-37	-46	-51	-60

表中の上側の数値は上の寸法許容差、下側の数値は下の寸法許容差を示す。  
in every step given in the table, the value on the upper side shows the upper deviation and the value on the lower side, the lower deviation.

ねじ下穴径表 Table for Screw Prepared Hole

1. メートル並目ねじ (単位: mm) Metric Standard Screw (Unit: mm)

ねじの呼び	ドリル径	めねじ内径 等級6H (旧JIS2級) <sup>*1</sup>	
		最小寸法	最大寸法
M 1 × 0.25	0.75	(0.729)	(0.785)
M 1.1 × 0.25	0.85	(0.829)	(0.885)
M 1.2 × 0.25	0.95	(0.929)	(0.985)
M 1.4 × 0.3	1.1	(1.075)	(1.142)
M 1.6 × 0.35	1.25	1.221	1.321
M 1.7 × 0.35	1.35	1.321	1.421
M 1.8 × 0.35	1.45	1.421	1.521
M 2 × 0.4	1.6	1.567	1.679
M 2.2 × 0.45	1.75	1.713	1.838
M 2.3 × 0.4	1.9	1.867	1.979
M 2.5 × 0.45	2.1	2.013	2.138
M 2.6 × 0.45	2.2	2.113	2.238
M 3 × 0.5	2.5	2.459	2.599
M 3.5 × 0.6	2.9	2.85	3.01
M 4 × 0.7	3.3	3.242	3.422
M 4.5 × 0.75	3.25	3.106	3.326
M 5 × 0.8	4.2	4.134	4.334
M 6 × 1	5	4.917	5.153
M 7 × 1	6	5.917	6.153
M 8 × 1.25	6.8	6.647	6.912
M 9 × 1.25	7.8	7.647	7.912
M 10 × 1.5	8.5	8.376	8.676
M 11 × 1.5	9.5	9.376	9.676
M 12 × 1.75	10.3	10.106	10.441
M 14 × 2	12	11.835	12.21
M 16 × 2	14	13.835	14.21
M 18 × 2.5	15.5	15.294	15.744
M 20 × 2.5	17.5	17.294	17.744
M 22 × 2.5	19.5	19.294	19.744
M 24 × 3	21	20.752	21.252
M 27 × 3	24	23.752	24.252
M 30 × 3.5	26.5	26.211	26.711
M 33 × 3.5	29.5	29.211	29.711
M 36 × 4	32	31.67	32.27
M 39 × 4	35	34.67	35.27
M 42 × 4.5	37.5	37.129	37.799
M 45 × 4.5	40.5	40.129	40.799
M 48 × 5	43	42.587	43.297

※1 ( )内の数値は、並目ねじ等級5H (旧JIS2級)、細目ねじ等級4H・5H (旧JIS1級)を記載  
Figures in bracket is for JIS 5H (old JIS Class 2) to coarse thread, and for JIS4H / 5H (old JIS Class 1) to fine thread

2. メートル細目ねじ (単位: mm) Metric Fine Screw (Unit: mm)

ねじの呼び	ドリル径	めねじ内径 等級6H (旧JIS2級) <sup>*1</sup>	
		最小寸法	最大寸法
M 2.5 × 0.35	2.2	2.121	2.221
M 3 × 0.35	2.7	2.621	2.721
M 3.5 × 0.35	3.2	3.121	3.221
M 4 × 0.5	3.5	3.459	3.599
M 4.5 × 0.5	4	3.959	4.099
M 5 × 0.5	4.5	4.459	4.599
M 5.5 × 0.5	5	4.959	5.099
M 6 × 0.75	5.3	5.188	5.378
M 7 × 0.75	6.3	6.188	6.378
M 8 × 1	7	6.917	7.153
M 8 × 0.75	7.3	7.188	7.378
M 9 × 1	8	7.917	8.153
M 9 × 0.75	8.3	8.188	8.378
M 10 × 1.25	8.8	8.647	8.912
M 10 × 1	9	8.917	9.153
M 10 × 0.75	9.3	9.188	9.378
M 11 × 1	10	9.917	10.153
M 11 × 0.75	10.3	10.188	10.378
M 12 × 1.5	10.5	10.376	10.676
M 12 × 1.25	10.8	10.647	10.912
M 12 × 1	11	10.917	11.153

ねじの呼び	ドリル径	めねじ内径 等級6H (旧JIS2級) <sup>*1</sup>	
		最小寸法	最大寸法
M 14 × 1.5	12.5	12.376	12.676
M 14 × 1	13	12.917	13.153
M 15 × 1.5	13.5	13.376	13.676
M 15 × 1	14	13.917	14.153
M 16 × 1.5	14.5	14.376	14.676
M 16 × 1	15	14.917	15.153
M 17 × 1.5	15.5	15.376	15.676
M 17 × 1	16	15.917	16.153
M 18 × 2	16	15.835	16.21
M 18 × 1.5	16.5	16.376	16.676
M 18 × 1	17	16.917	17.153
M 20 × 2	18	17.835	18.21
M 20 × 1.5	18.5	18.376	18.676
M 20 × 1	19	18.917	19.153
M 22 × 2	20	19.835	20.21
M 22 × 1.5	20.5	20.376	20.676
M 22 × 1	21	20.917	21.253
M 24 × 2	22	21.835	22.21
M 24 × 1.5	22.5	22.376	22.676
M 24 × 1	23	22.917	23.153
M 25 × 2	23	22.835	23.21
M 25 × 1.5	23.5	23.376	23.676
M 25 × 1	24	23.917	24.153
M 26 × 1.5	24.5	24.376	24.676
M 27 × 2	25	24.835	25.21
M 27 × 1.5	25.5	25.376	25.676
M 27 × 1	26	25.917	26.153
M 28 × 2	26	25.835	26.21
M 28 × 1.5	26.5		