

〔技術データ〕 常用するはめあいの寸法公差 JIS B 0401-2(1998)より抜粋編集

常用するはめあいの軸で用いる寸法許容差

基準寸法の区分 (mm)		軸の公差域クラス																																				単位 μm	
を指し以下		b9	c9	d8	d9	e7	e8	e9	f6	f7	f8	g5	g6	h5	h6	h7	h8	h9	js5	js6	js7	k5	k6	m5	m6	n5*	n6	p6	r6	s6	t6	u6	x6						
-	3	-140 -165	-60 -85	-20 -34	-20 -24	-14 -24	-14 -28	-14 -39	-6 -12	-6 -16	-2 -8	-2 -6	-2 -8	0 -4	0 -6	0 -10	0 -14	0 -25	± 2	± 3	$r \cdot$	+4 0	+6 0	+6 +2	+8 +2	+8 +4	+10 +4	+12 +6	+16 +10	+20 +14	-	+24 +18	+26 +20						
3	6	-140 -170	-70 -100	-30 -48	-30 -60	-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	$r \cdot$	+6 +1	+9 +1	+9 +4	+12 +4	+13 +8	+16 +12	+20 +15	+23 +19	-	+31 +23	+36 +30							
6	10	-150 -186	-80 -116	-40 -76	-40 -80	-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	± 7.5	+7 +1	+10 +6	+12 +6	+15 +10	+16 +10	+19 +15	+24 +19	+28 +23	-	+37 +31	+43 +36							
10	14	-150 -193	-95 -138	-50 -83	-50 -90	-32 -50	-32 -59	-32 -75	-16 -27	-16 -34	-16 -43	-6 -14	-6 -17	0 -8	0 -11	0 -18	0 -27	0 -43	± 4	± 5.5	$r \cdot$	+9 +1	+12 +1	+15 +7	+18 +7	+20 +12	+23 +12	+29 +18	+34 +23	+39 +28	-	+44 +33	+51 +40						
14	18	-160 -212	-110 -162	-65 -98	-65 -117	-40 -61	-40 -73	-40 -92	-20 -33	-20 -41	-20 -53	-7 -16	-7 -20	0 -9	0 -13	0 -21	0 -33	0 -52	± 4.5	± 6.5	± 10.5	+11 +2	+15 +2	+17 +8	+21 +8	+24 +15	+28 +15	+35 +22	+41 +28	+48 +35	-	+54 +41	+67 +54						
18	24	-170 -232	-120 -182	-80 -119	-80 -142	-50 -75	-50 -89	-50 -112	-25 -41	-25 -50	-25 -64	-9 -20	-9 -25	0 -11	0 -16	0 -25	0 -39	0 -62	± 5.5	± 8.5	± 12.5	+13 +2	+18 +2	+20 +9	+25 +9	+28 +17	+33 +17	+42 +26	+50 +34	+59 +43	-	+64 +54	+76 +66						
24	30	-180 -242	-130 -192	-90 -124	-90 -159	-60 -86	-60 -114	-60 -140	-30 -49	-30 -60	-30 -76	-10 -23	-10 -29	0 -13	0 -19	0 -30	0 -46	0 -74	± 6.5	± 9.5	$r \cdot$	+15 +2	+21 +2	+24 +11	+30 +11	+33 +20	+39 +20	+51 +32	+60 +43	+72 +56	-	+85 +70	+106 +91						
30	40	-190 -264	-140 -214	-100 -146	-100 -174	-60 -90	-60 -114	-60 -140	-30 -49	-30 -60	-30 -76	-10 -23	-10 -29	0 -13	0 -19	0 -30	0 -46	0 -74	± 7.5	± 10.5	$r \cdot$	+18 +3	+25 +3	+28 +13	+35 +13	+38 +23	+45 +23	+59 +37	+73 +51	+93 +71	-	+113 +91	+146 +124						
40	50	-200 -274	-150 -224	-110 -156	-110 -184	-70 -100	-70 -124	-70 -150	-36 -58	-36 -71	-36 -90	-12 -27	-12 -34	0 -15	0 -22	0 -35	0 -54	0 -87	± 8.5	± 11.5	$r \cdot$	+21 +3	+29 +3	+33 +13	+40 +13	+46 +23	+55 +37	+71 +51	+91 +69	-	+111 +89	+146 +124							
50	65	-210 -284	-160 -234	-120 -166	-120 -194	-80 -110	-80 -134	-80 -160	-43 -68	-43 -83	-43 -106	-14 -32	-14 -39	0 -18	0 -25	0 -39	0 -54	0 -87	± 9.5	± 12.5	$r \cdot$	+24 +3	+33 +3	+37 +15	+46 +15	+52 +23	+63 +43	+79 +59	+100 +79	-	+120 +99	+155 +134							
65	80	-220 -294	-170 -244	-130 -176	-130 -204	-90 -120	-90 -144	-90 -170	-50 -75	-50 -95	-50 -122	-15 -35	-15 -44	0 -20	0 -29	0 -46	0 -74	0 -115	± 10.5	± 13.5	$r \cdot$	+27 +4	+36 +4	+43 +20	+52 +20	+60 +34	+77 +57	+99 +79	+126 +106	-	+146 +126	+181 +161							
80	100	-230 -304	-180 -254	-140 -186	-140 -214	-100 -130	-100 -154	-100 -180	-60 -85	-60 -105	-60 -132	-18 -38	-18 -47	0 -24	0 -33	0 -50	0 -83	0 -116	± 11.5	± 14.5	$r \cdot$	+31 +5	+41 +5	+50 +23	+60 +23	+70 +43	+89 +69	+116 +96	+143 +123	-	+171 +151	+210 +190							
100	120	-240 -320	-190 -270	-150 -210	-150 -240	-110 -140	-110 -164	-110 -190	-70 -95	-70 -115	-70 -142	-22 -42	-22 -51	0 -24	0 -33	0 -50	0 -83	0 -116	± 12.5	± 15.5	$r \cdot$	+33 +5	+43 +5	+53 +26	+63 +26	+74 +46	+93 +73	+120 +100	+147 +127	-	+181 +161	+220 +200							
120	140	-260 -340	-210 -290	-170 -230	-170 -260	-130 -160	-130 -184	-130 -210	-90 -115	-90 -135	-90 -162	-24 -44	-24 -53	0 -24	0 -33	0 -50	0 -83	0 -116	± 13.5	± 16.5	$r \cdot$	+36 +6	+46 +6	+56 +29	+66 +29	+78 +50	+105 +85	+132 +112	+159 +139	-	+191 +171	+230 +210							
140	160	-280 -360	-230 -310	-190 -250	-190 -280	-150 -180	-150 -204	-150 -230	-110 -135	-110 -155	-110 -182	-26 -46	-26 -55	0 -24	0 -33	0 -50	0 -83	0 -116	± 14.5	± 17.5	$r \cdot$	+39 +6	+49 +6	+59 +32	+69 +32	+82 +54	+111 +91	+138 +118	+165 +145	-	+201 +181	+240 +220							
160	180	-300 -380	-250 -330	-210 -270	-210 -300	-170 -200	-170 -224	-170 -250	-130 -155	-130 -175	-130 -202	-28 -48	-28 -57	0 -24	0 -33	0 -50	0 -83	0 -116	± 15.5	± 18.5	$r \cdot$	+41 +7	+51 +7	+61 +34	+71 +34	+85 +56	+113 +93	+140 +120	+167 +147	-	+211 +191	+250 +230							
180	200	-320 -400	-270 -350	-230 -290	-230 -320	-190 -220	-190 -244	-190 -270	-150 -175	-150 -205	-150 -232	-30 -50	-30 -59	0 -24	0 -33	0 -50	0 -83	0 -116	± 16.5	± 19.5	$r \cdot$	+44 +7	+54 +7	+64 +37	+74 +37	+90 +61	+119 +99	+146 +126	+173 +153	-	+221 +201	+260 +240							
200	225	-340 -420	-290 -370	-250 -310	-250 -340	-210 -240	-210 -264	-210 -290	-170 -195	-170 -225	-170 -252	-32 -52	-32 -61	0 -24	0 -33	0 -50	0 -83	0 -116	± 17.5	± 20.5	$r \cdot$	+47 +8	+57 +8	+67 +40	+77 +40	+95 +66	+125 +105	+152 +132	+179 +159	-	+231 +211	+270 +250							
225	250	-360 -440	-310 -390	-270 -330	-270 -360	-230 -260	-230 -284	-230 -310	-190 -215	-190 -245	-190 -272	-34 -54	-34 -63	0 -24	0 -33	0 -50	0 -83	0 -116	± 18.5	± 21.5	$r \cdot$	+50 +9	+60 +9	+70 +41	+80 +41	+100 +71	+131 +111	+158 +138	+185 +165	-	+241 +221	+280 +260							
250	280	-380 -460	-330 -410	-290 -350	-290 -380	-250 -280	-250 -304	-250 -330	-210 -235	-210 -265	-210 -292	-36 -56	-36 -65	0 -24	0 -33	0 -50	0 -83	0 -116	± 19.5	± 22.5	$r \cdot$	+53 +9	+63 +9	+73 +42	+83 +42	+105 +76	+137 +117	+164 +144	+191 +171	-	+251 +231	+290 +270							
280	315	-400 -480	-350 -430	-310 -370	-310 -400	-270 -300	-270 -324	-270 -350	-230 -255	-230 -285	-230 -312	-38 -58	-38 -67	0 -24	0 -33	0 -50	0 -83	0 -116	± 20.5	± 23.5	$r \cdot$	+56 +10	+66 +10	+76 +43	+86 +43	+110 +81	+143 +123	+170 +150	+197 +177	-	+261 +241	+300 +280							
315	355	-420 -500	-370 -450	-330 -390	-330 -420	-290 -320	-290 -344	-290 -370	-250 -275	-250 -305	-250 -332	-40 -60	-40 -69	0 -24	0 -33	0 -50	0 -83	0 -116	± 21.5	± 24.5	$r \cdot$	+59 +10	+69 +10	+79 +44	+89 +44	+115 +86	+149 +129	+176 +156	+203 +183	-	+271 +251	+310 +290							
355	400	-440 -520	-390 -470	-350 -410	-350 -440	-310 -340	-310 -364	-310 -390	-270 -295	-270 -325	-270 -352	-42 -62	-42 -71	0 -24	0 -33	0 -50	0 -83	0 -116	± 22.5	± 25.5	$r \cdot$	+62 +10	+72 +10	+82 +45	+92 +45	+120 +91	+155 +135	+182 +162	+209 +189	-	+281 +261	+320 +300							
400	450	-460 -540	-410 -490	-370 -430	-370 -460	-330 -360	-330 -384	-330 -410	-290 -315	-290 -345	-290 -372	-44 -64	-44 -73	0 -24	0 -33	0 -50	0 -83	0 -116	± 23.5	± 26.5	$r \cdot$	+65 +11	+75 +11	+85 +46	+95 +46	+125 +96	+161 +141	+188 +168	+215 +195	-	+291 +271	+330 +310							
450	500	-480 -560	-430 -510	-390 -450	-390 -480	-350 -380	-350 -404	-350 -430	-310 -335	-310 -385	-310 -412	-46 -66	-46 -75	0 -24	0 -33	0 -50	0 -83	0 -116	± 24.5	± 27.5	$r \cdot$	+68 +11	+78 +11	+88 +47	+98 +47	+130 +101	+167 +147	+194 +174	+221 +201	-	+301 +281	+340 +320							

常用するはめあいで用いる穴の寸法許容差

基準寸法の区分 (mm)		穴の公差域クラス																																		単位 μm	
を越え以下		B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7	P6	P7	R7	S7	T7	U7	X7		
-	3	+180 +140	+85 +60	+100 +70	+34 +20	+45 +20	+60 +20	+24 +14	+28 +14	+39 +6	+12 +6	+16 +6	+20 +6	+8 +2	+12 +2	+6 +0	+10 +0	+14 +0	+25 +0	+40 +0	± 3	$r \cdot$	0 -6	0 -10	-2 -8	-2 -12	-4 -14	-4 -12	-6 -10	-10 -14	-14 -18	-20 -24	-24 -28	-30 -30	-	-18 -28	-20 -30
3	6	+188 +140	+100 +70	+118 +30	+48 +30	+60 +30	+78 +30	+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	$r \cdot$	+2 +6	+3 +3	-1 -1	0 -5	-4 -9	-8 -11	-15 -15	-22 -27	-27 -31	-31 -34	-	-19 -24	-24 -26		
6	10	+208 +150	+116 +80	+138 +90	+62 +40	+76 +40	+80 +40	+40 +25	+48 +25	+50 +25	+13 +13	+13 +13	+15 +15	+5 +5	+5 +5	+15 +15	+22 +22	+36 +36	+58 +58	± 4.5	± 7.5	+2 +7	+5 +2	-3 -10	-3 -12	0 -15	-7 -18	-12 -20	-15 -23	-16 -26	-19 -29	-21 -24	-24 -28	-32 -32	-	-37 -43	
10	14	+220 +150	+138 +95	+165 +95	+77 +50	+93 +50	+120 +50	+50 +32	+59 +32	+75 +32	+27 +16	+34 +16	+43 +16	+17 +6	+24 +6	+11 +0	+18 +0	+27 +0	+43 +0	+70 +0	± 5.5	$r \cdot$	+2 -9	+6 -12	-4 -15	0 -18	-9 -20	-5 -23	-15 -26	-11 -29	-16 -34	-21 -39	-	-26 -44	-51 -56		
14	18																																		-	-33 -46	
18	24	+244 +160	+162 +110	+194 +110	+98 +65	+117 +65	+149 +65	+61 +40	+73 +40	+92 +40	+33 +20	+41 +20	+53 +20	+20 +7	+28 +13	+13 +0	+21 +0	+33 +0	+52 +0	+84 +0	± 6.5	± 10.5	+2 -11	+6 -16	-4 -4	0 -11	-7 -24	-8 -28	-13 -31	-14 -35	-21 -41	-27 -48	-	-33 -54	-46 -56		
24	30																																		-	-33 -46	
30	40	+270 +170	+182 +120	+220 +120	+119 +119	+142 +80	+75 +80	+89 +50	+112 +41	+20 +25	+30 +25	+41 +25	+50 +25	+24 +9	+34 +9	+16 +0	+25 +0	+39 +0	+62 +0	+100 +0	$r \cdot$	± 12.5	+3 -13	+7 -18	-4 -20	0 -25	-12 -28	-18 -33	-21 -37	-17 -42	-25 -50	-34 -59	-45 -61	-	-39 -51	-46 -57	
40	50																																		-	-39 -51	
50	65	+310 +200	+214 +150	+260 +170	+140 +140	+140 +140	+146 +174	+220 +90	+106 +134	+49 +49	+60 +30	+76 +30	+29 +10	+40 +10	+19 +0	+30 +0	+46 +0	+74 +0	+120 +0	± 9.5	$r \cdot$	+4 -15	+9 -21	-5 -24	0 -30	-14 -33	-9 -39	-45 -51	-26 -45	-21 -51	-30 -55	-42 -61	-	-42 -55	-78 -106		
65	80																																		-	-42 -55	
80	100	+360 +220	+257 +170	+310 +170	+174 +174	+207 +260	+107 +107	+126 +159	+58 +58	+71 +90	+34 +34	+47 +47	+22 +12	+35 +0	+54 +0	+87 +0	+140 +0	$r \cdot$	± 17.5	+4 -18	+10 -25	-6 -28	0 -35	-16 -38	-10 -45	-30 -61	-42 -59	-51 -62	-66 -91	-77 -106	-88 -116	-	-78 -111	-106 -146			
100	120																																		-	-78 -111	
120	140	+420 +260	+300 +200	+360 +260	+208 +210	+245 +310	+105 +105	+125 +125	+148 +85	+185 +85	+68 +85	+83 +43	+106 +43	+39 +14	+54 +14	+25 +0	+40 +0	+63 +0	+100 +0	+160 +0	± 12.5	± 20	+4 -21	+12 -28	-3 -38	0 -40	-20 -45	-12 -52	-16 -61	-28 -58	-36 -68	-42 -90	-52 -125	-	-52 -90	-66 -159	
140	160																																		-	-52 -90	
160	180	+470 +310	+330 +230	+390 +230	+370 +210	+310 +210	+240 +210	+110 +110	+125 +56	+159 +56	+58 +56	+83 +43	+106 +43	+39 +14	+54 +14	+25 +0	+40 +0	+63 +0	+100 +0	+160 +0	± 12.5	± 20	+4 -21	+12 -28	-3 -38	0 -40	-20 -45	-12 -52	-16 -61	-28 -58	-36 -68	-42 -90	-52 -125	-	-52 -90	-66 -159	
180	200																																		-	-52 -90	
200	225	+540 +380	+375 +260	+465 +260	+242 +170	+285 +170	+355 +170	+146 +100	+172 +100	+215 +100	+79 +50	+96 +50	+122 +50	+44 +15	+61 +15	+29 +0	+46 +0	+72 +0	+115 +0	+185 +0	± 14.5	± 23	+5 -24	+13 -33	-8 -37	0 -46	-22 -51	-14 -60	-41 -70	-33 -79	-63 -109	-113 -159	-	-63 -113	-113 -159		
225	250																																		-	-63 -113	
250	280	+605 +480	+396 +300	+465 +300	+271 +320	+340 +400	+162 +191	+240 +240	+88 +88	+108 +108	+137 +137	+49 +17	+69 +17	+32 +0	+52 +0	+81 +0	+130 +0	+210 +0	$r \cdot$	± 26	+5 -27	+16 -36	-9 -41	0 -52	-5 -57	-14 -67	-25 -71	-41 -67	-33 -79	-63 -126	-74 -130	-	-63 -113	-113 -159			
280	315																																		-	-63 -113	
315	355	+830 +600	+500 +360	+590 +360	+327 +385	+480 +480	+192 +212	+240 +212	+88 +62	+108 +62	+137 +62	+49 +18	+69 +18	+32 +0	+52 +0	+81 +0	+130 +0	+210 +0	$r \cdot$	± 28.5	+7 -29	+17 -40	-10 -46	0 -57	-14 -62	-25 -71	-41 -67	-33 -79	-63 -126	-74 -130	-	-63 -113	-113 -159				
355	400																																		-	-63 -113	
400	450	+1010 +760	+595 +440	+690 +440	+327 +385	+480 +480	+192 +212	+240 +212	+88 +68	+108 +68	+137 +68	+49 +20	+69 +20	+32 +0	+52 +0	+81 +0	+130 +0	+210 +0	± 20	± 31.5	+8 -32	+18 -45	-10 -50	0 -63	-27 -67	-17 -80	-55 -95	-45 -108	-166 -198	-	-45 -108	-166 -198					
450	500																																		-	-45 -108	