

表 16 (完)

 $\mu\text{m}$ 

基本尺寸 mm		ZB					ZC				
大于	至	7	8	9	10	11	7	8	9	10	11
14	18	-101	-108	-108	-108	-108	-143	-150	-150	-150	-150
		-119	-135	-151	-178	-218	-161	-177	-193	-220	-260
18	24	-128	-136	-136	-136	-136	-180	-188	-188	-188	-188
		-149	-169	-188	-220	-266	-201	-221	-240	-272	-318
24	30	-152	-160	-160	-160	-160	-210	-218	-218	-218	-218
		-173	-193	-212	-244	-290	-231	-251	-270	-302	-348
30	40	-191	-200	-200	-200	-200	-265	-274	-274	-274	-274
		-216	-239	-262	-300	-360	-290	-313	-336	-374	-434
40	50	-233	-242	-242	-242	-242	-316	-325	-325	-325	-325
		-258	-281	-304	-342	-402	-341	-364	-387	-425	-485
50	65	-289	-300	-300	-300	-300	-394	-405	-405	-405	-405
		-319	-346	-374	-420	-490	-424	-451	-479	-525	-595
65	80	-349	-360	-360	-360	-360	-469	-480	-480	-480	-480
		-379	-406	-434	-480	-550	-499	-526	-554	-600	-670
80	100	-432	-445	-445	-445	-445	-572	-585	-585	-585	-585
		-467	-499	-532	-585	-665	-607	-639	-672	-725	-805
100	120	-512	-525	-525	-525	-525	-677	-690	-690	-690	-690
		-547	-579	-612	-665	-745	-712	-744	-777	-830	-910
120	140	-605	-620	-620	-620	-620	-785	-800	-800	-800	-800
		-645	-683	-720	-780	-870	-825	-863	-900	-960	-1 050
140	160	-685	-700	-700	-700	-700	-885	-900	-900	-900	-900
		-725	-763	-800	-860	-950	-925	-963	-1 000	-1 060	-1 150
160	180	-765	-780	-780	-780	-780	-985	-1 000	-1 000	-1 000	-1 000
		-805	-843	-880	-940	-1 030	-1 025	-1 063	-1 100	-1 160	-1 250
180	200	-863	-880	-880	-880	-880	-1 133	-1 150	-1 150	-1 150	-1 150
		-909	-952	-995	-1 065	-1 170	-1 179	-1 222	-1 265	-1 335	-1 440
200	225	-943	-960	-960	-960	-960	-1 233	-1 250	-1 250	-1 250	-1 250
		-989	-1 032	-1 075	-1 145	-1 250	-1 279	-1 322	-1 365	-1 435	-1 540
225	250	-1 033	-1 050	-1 050	-1 050	-1 050	-1 333	-1 350	-1 350	-1 350	-1 350
		-1 079	-1 122	-1 165	-1 235	-1 340	-1 379	-1 422	-1 465	-1 535	-1 640
250	280	-1 180	-1 200	-1 200	-1 200	-1 200	-1 530	-1 550	-1 550	-1 550	-1 550
		-1 232	-1 281	-1 330	-1 410	-1 520	-1 582	-1 631	-1 680	-1 760	-1 870
280	315	-1 280	-1 300	-1 300	-1 300	-1 300	-1 680	-1 700	-1 700	-1 700	-1 700
		-1 332	-1 381	-1 430	-1 510	-1 620	-1 732	-1 781	-1 830	-1 910	-2 020
315	355	-1 479	-1 500	-1 500	-1 500	-1 500	-1 879	-1 900	-1 900	-1 900	-1 900
		-1 536	-1 589	-1 640	-1 730	-1 860	-1 936	-1 989	-2 040	-2 130	-2 260
355	400	-1 629	-1 650	-1 650	-1 650	-1 650	-2 079	-2 100	-2 100	-2 100	-2 100
		-1 686	-1 739	-1 790	-1 880	-2 010	-2 136	-2 189	-2 240	-2 330	-2 460
400	450	-1 827	-1 850	-1 850	-1 850	-1 850	-2 377	-2 400	-2 400	-2 400	-2 400
		-1 890	-1 947	-2 005	-2 100	-2 250	-2 440	-2 497	-2 555	-2 650	-2 800
450	500	-2 077	-2 100	-2 100	-2 100	-2 100	-2 577	-2 600	-2 600	-2 600	-2 600
		-2 140	-2 197	-2 255	-2 350	-2 500	-2 640	-2 697	-2 755	-2 850	-3 000

表 17 轴 a、b 和 c 的极限偏差

μm

基本尺寸 mm		a					b						c				
大于	至	9	10	11	12	13	8	9	10	11	12	13	8	9	10	11	12
—	3	-270	-270	-270	-270	-270	-140	-140	-140	-140	-140	-140	-60	-60	-60	-60	-60
		-295	-310	-330	-370	-410	-154	-165	-180	-200	-240	-280	-74	-85	-100	-120	-160
3	6	-270	-270	-270	-270	-270	-140	-140	-140	-140	-140	-140	-70	-70	-70	-70	-70
		-300	-318	-345	-390	-450	-158	-170	-188	-215	-260	-320	-88	-100	-118	-145	-190
6	10	-280	-280	-280	-280	-280	-150	-150	-150	-150	-150	-150	-80	-80	-80	-80	-80
		-316	-338	-370	-430	-500	-172	-186	-208	-240	-300	-370	-102	-116	-138	-170	-230
10	18	-290	-290	-290	-290	-290	-150	-150	-150	-150	-150	-150	-95	-95	-95	-95	-95
		-333	-360	-400	-470	-560	-177	-193	-220	-260	-330	-420	-122	-138	-165	-205	-275
18	30	-300	-300	-300	-300	-300	-160	-160	-160	-160	-160	-160	-110	-110	-110	-110	-110
		-352	-384	-430	-510	-630	-193	-212	-244	-290	-370	-490	-143	-162	-194	-240	-320
30	40	-310	-310	-310	-310	-310	-170	-170	-170	-170	-170	-170	-120	-120	-120	-120	-120
		-372	-410	-470	-560	-700	-209	-232	-270	-330	-420	-560	-159	-182	-220	-280	-370
40	50	-320	-320	-320	-320	-320	-180	-180	-180	-180	-180	-180	-130	-130	-130	-130	-130
		-382	-420	-480	-570	-710	-219	-242	-280	-340	-430	-570	-169	-192	-230	-290	-380
50	65	-340	-340	-340	-340	-340	-190	-190	-190	-190	-190	-190	-140	-140	-140	-140	-140
		-414	-460	-530	-640	-800	-236	-264	-310	-380	-490	-650	-186	-214	-260	-330	-440
65	80	-360	-360	-360	-360	-360	-200	-200	-200	-200	-200	-200	-150	-150	-150	-150	-150
		-434	-480	-550	-660	-820	-246	-274	-320	-390	-500	-660	-196	-224	-270	-340	-450
80	100	-380	-380	-380	-380	-380	-220	-220	-220	-220	-220	-220	-170	-170	-170	-170	-170
		-467	-520	-600	-730	-920	-274	-307	-360	-440	-570	-760	-224	-257	-310	-390	-520
100	120	-410	-410	-410	-410	-410	-240	-240	-240	-240	-240	-240	-180	-180	-180	-180	-180
		-497	-550	-630	-760	-950	-294	-327	-380	-460	-590	-780	-234	-267	-320	-400	-530
120	140	-460	-460	-460	-460	-460	-260	-260	-260	-260	-260	-260	-200	-200	-200	-200	-200
		-560	-620	-710	-860	-1 090	-323	-360	-420	-510	-660	-890	-263	-300	-360	-450	-600
140	160	-520	-520	-520	-520	-520	-280	-280	-280	-280	-280	-280	-210	-210	-210	-210	-210
		-620	-680	-770	-920	-1 150	-343	-380	-440	-530	-680	-910	-273	-310	-370	-460	-610
160	180	-580	-580	-580	-580	-580	-310	-310	-310	-310	-310	-310	-230	-230	-230	-230	-230
		-680	-740	-830	-980	-1 210	-373	-410	-470	-560	-710	-940	-293	-330	-390	-480	-630
180	200	-660	-660	-660	-660	-660	-340	-340	-340	-340	-340	-340	-240	-240	-240	-240	-240
		-775	-845	-950	-1 120	-1 380	-412	-455	-525	-630	-800	-1 060	-312	-355	-425	-530	-700
200	225	-740	-740	-740	-740	-740	-380	-380	-380	-380	-380	-380	-260	-260	-260	-260	-260
		-855	-925	-1 030	-1 200	-1 460	-452	-495	-565	-670	-840	-1 100	-332	-375	-445	-550	-720
225	250	-820	-820	-820	-820	-820	-420	-420	-420	-420	-420	-420	-280	-280	-280	-280	-280
		-935	-1 005	-1 110	-1 280	-1 540	-492	-535	-605	-710	-880	-1 140	-352	-395	-465	-570	-740
250	280	-920	-920	-920	-920	-920	-480	-480	-480	-480	-480	-480	-300	-300	-300	-300	-300
		-1 050	-1 130	-1 240	-1 440	-1 730	-561	-610	-690	-800	-1 000	-1 290	-381	-430	-510	-620	-820
280	315	-1 050	-1 050	-1 050	-1 050	-1 050	-540	-540	-540	-540	-540	-540	-330	-330	-330	-330	-330
		-1 180	-1 260	-1 370	-1 570	-1 860	-621	-670	-750	-860	-1 060	-1 350	-411	-460	-540	-650	-850
315	355	-1 200	-1 200	-1 200	-1 200	-1 200	-600	-600	-600	-600	-600	-600	-360	-360	-360	-360	-360
		-1 340	-1 430	-1 560	-1 770	-2 090	-689	-740	-830	-960	-1 170	-1 490	-449	-500	-590	-720	-930
355	400	-1 350	-1 350	-1 350	-1 350	-1 350	-680	-680	-680	-680	-680	-680	-400	-400	-400	-400	-400
		-1 490	-1 580	-1 710	-1 920	-2 240	-769	-820	-910	-1 040	-1 250	-1 570	-489	-540	-630	-760	-970
400	450	-1 500	-1 500	-1 500	-1 500	-1 500	-760	-760	-760	-760	-760	-760	-440	-440	-440	-440	-440
		-1 655	-1 750	-1 900	-2 130	-2 470	-857	-915	-1 010	-1 160	-1 390	-1 730	-537	-595	-690	-840	-1 070
450	500	-1 650	-1 650	-1 650	-1 650	-1 650	-840	-840	-840	-840	-840	-840	-480	-480	-480	-480	-480
		-1 805	-1 900	-2 050	-2 280	-2 620	-937	-995	-1 090	-1 240	-1 470	-1 810	-577	-635	-730	-880	-1 110

注：基本尺寸小于 1 mm 时，各级的 a 和 b 均不采用。

表 18 轴 cd 和 d 的极限偏差

μm

基本尺寸 mm		cd						d								
大于	至	5	6	7	8	9	10	5	6	7	8	9	10	11	12	13
—	3	-34 -38	-34 -40	-34 -44	-34 -48	-34 -59	-34 -74	-20 -24	-20 -26	-20 -30	-20 -34	-20 -45	-20 -60	-20 -80	-20 -120	-20 -160
3	6	-46 -51	-46 -54	-46 -58	-46 -64	-46 -76	-46 -94	-30 -35	-30 -38	-30 -42	-30 -48	-30 -60	-30 -78	-30 -105	-30 -150	-30 -210
6	10	-56 -62	-56 -65	-56 -71	-56 -78	-56 -92	-56 -114	-40 -46	-40 -49	-40 -55	-40 -62	-40 -76	-40 -98	-40 -130	-40 -190	-40 -260
10	18							-50 -58	-50 -61	-50 -68	-50 -77	-50 -93	-50 -120	-50 -160	-50 -230	-50 -320
18	30							-65 -74	-65 -78	-65 -86	-65 -98	-65 -117	-65 -149	-65 -195	-65 -275	-65 -395
30	50							-80 -91	-80 -96	-80 -105	-80 -119	-80 -142	-80 -180	-80 -240	-80 -330	-80 -470
50	80							-100 -113	-100 -119	-100 -130	-100 -146	-100 -174	-100 -220	-100 -290	-100 -400	-100 -560
80	120							-120 -135	-120 -142	-120 -155	-120 -174	-120 -207	-120 -260	-120 -340	-120 -470	-120 -660
120	180							-145 -163	-145 -170	-145 -185	-145 -208	-145 -245	-145 -305	-145 -395	-145 -545	-145 -775
180	250							-170 -190	-170 -199	-170 -216	-170 -242	-170 -285	-170 -355	-170 -460	-170 -630	-170 -890
250	315							-190 -213	-190 -222	-190 -242	-190 -271	-190 -320	-190 -400	-190 -510	-190 -710	-190 -1 000
315	400							-210 -235	-210 -246	-210 -267	-210 -299	-210 -350	-210 -440	-210 -570	-210 -780	-210 -1 100
400	500							-230 -257	-230 -270	-230 -293	-230 -327	-230 -385	-230 -480	-230 -630	-230 -860	-230 -1 200
500	630											-260 -330	-260 -370	-260 -435	-260 -700	
630	800											-290 -370	-290 -415	-290 -490	-290 -790	
800	1 000											-320 -410	-320 -460	-320 -550	-320 -880	
1 000	1 250											-350 -455	-350 -515	-350 -610	-350 -1 010	
1 250	1 600											-390 -515	-390 -585	-390 -700	-390 -1 170	
1 600	2 000											-430 -580	-430 -660	-430 -800	-430 -1 350	
2 000	2 500											-480 -655	-480 -760	-480 -920	-480 -1 580	
2 500	3 150											-520 -730	-520 -860	-520 -1 060	-520 -1 870	

注：各级的 cd 主要用于精密机械和钟表制造业。

表 19 轴 e 和 ef 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		e						ef							
大于	至	5	6	7	8	9	10	3	4	5	6	7	8	9	10
—	3	-14	-14	-14	-14	-14	-14	-10	-10	-10	-10	-10	-10	-10	-10
		-18	-20	-24	-28	-39	-54	-12	-13	-14	-16	-20	-24	-35	-50
3	6	-20	-20	-20	-20	-20	-20	-14	-14	-14	-14	-14	-14	-14	-14
		-25	-28	-32	-38	-50	-68	-16.5	-18	-19	-22	-26	-32	-44	-62
6	10	-25	-25	-25	-25	-25	-25	-18	-18	-18	-18	-18	-18	-18	-18
		-31	-34	-40	-47	-61	-83	-20.5	-22	-24	-27	-33	-40	-54	-76
10	18	-32	-32	-32	-32	-32	-32								
		-40	-43	-50	-59	-75	-102								
18	30	-40	-40	-40	-40	-40	-40								
		-49	-53	-61	-73	-92	-124								
30	50	-50	-50	-50	-50	-50	-50								
		-61	-66	-75	-89	-112	-150								
50	80	-60	-60	-60	-60	-60	-60								
		-73	-79	-90	-106	-134	-180								
80	120	-72	-72	-72	-72	-72	-72								
		-87	-94	-107	-126	-212	-159								
120	180	-85	-85	-85	-85	-85	-85								
		-103	-110	-125	-148	-185	-245								
180	250	-100	-100	-100	-100	-100	-100								
		-120	-129	-146	-172	-215	-285								
250	315	-110	-110	-110	-110	-110	-110								
		-133	-142	-162	-191	-240	-320								
315	400	-125	-125	-125	-125	-125	-125								
		-150	-161	-182	-214	-265	-355								
400	500	-135	-135	-135	-135	-135	-135								
		-162	-175	-198	-232	-290	-385								
500	630		-145	-145	-145	-145	-145								
			-189	-215	-255	-320	-425								
630	800		-160	-160	-160	-160	-160								
			-210	-240	-285	-360	-480								
800	1 000		-170	-170	-170	-170	-170								
			-226	-260	-310	-400	-530								
1 000	1 250		-195	-195	-195	-195	-195								
			-261	-300	-360	-455	-615								
1 250	1 600		-220	-220	-220	-220	-220								
			-298	-345	-415	-530	-720								
1 600	2 000		-240	-240	-240	-240	-240								
			-332	-390	-470	-610	-840								
2 000	2 500		-260	-260	-260	-260	-260								
			-370	-435	-540	-700	-960								
2 500	3 150		-290	-290	-290	-290	-290								
			-425	-500	-620	-830	-1 150								

注：各级的 ef 主要用于精密机械和钟表制造业。

表 20 轴 f 和 fg 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		f								fg							
大于	至	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
—	3	-6 -8	-6 -9	-6 -10	-6 -12	-6 -16	-6 -20	-6 -31	-6 -46	-4 -6	-4 -7	-4 -8	-4 -10	-4 -14	-4 -18	-4 -29	-4 -44
3	6	-10 -12.5	-10 -14	-10 -15	-10 -18	-10 -22	-10 -28	-10 -40	-10 -58	-6 -8.5	-6 -10	-6 -11	-6 -14	-6 -18	-6 -24	-6 -36	-6 -54
6	10	-13 -15.5	-13 -17	-13 -19	-13 -22	-13 -28	-13 -35	-13 -49	-13 -71	-8 -10.5	-8 -12	-8 -14	-8 -17	-8 -23	-8 -30	-8 -44	-8 -66
10	18	-16 -19	-16 -21	-16 -24	-16 -27	-16 -34	-16 -43	-16 -59	-16 -86								
18	30	-20 -24	-20 -26	-20 -29	-20 -33	-20 -41	-20 -53	-20 -72	-20 -104								
30	50	-25 -29	-25 -32	-25 -36	-25 -41	-25 -50	-25 -64	-25 -87	-25 -125								
50	80		-30 -38	-30 -43	-30 -49	-30 -60	-30 -76	-30 -104									
80	120		-36 -46	-36 -51	-36 -58	-36 -71	-36 -90	-36 -123									
120	180		-43 -55	-43 -61	-43 -68	-43 -83	-43 -106	-43 -143									
180	250		-50 -64	-50 -70	-50 -79	-50 -96	-50 -122	-50 -165									
250	315		-56 -72	-56 -79	-56 -88	-56 -108	-56 -137	-56 -185									
315	400		-62 -80	-62 -87	-62 -98	-62 -119	-62 -151	-62 -202									
400	500		-68 -88	-68 -95	-68 -108	-68 -131	-68 -165	-68 -223									
500	630				-76 -120	-76 -146	-76 -186	-76 -251									
630	800				-80 -130	-80 -160	-80 -205	-80 -280									
800	1 000				-86 -142	-86 -176	-86 -226	-86 -316									
1 000	1 250				-98 -164	-98 -203	-98 -263	-98 -358									
1 250	1 600				-110 -188	-110 -235	-110 -305	-110 -420									
1 600	2 000				-120 -212	-120 -270	-120 -350	-120 -490									
2 000	2 500				-130 -240	-130 -305	-130 -410	-130 -570									
2 500	3 150				-145 -280	-145 -355	-145 -475	-145 -685									

注：各级的 fg 主要用于精密机械和钟表制造业。

表 21 轴 g 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		g							
大于	至	3	4	5	6	7	8	9	10
—	3	-2 -4	-2 -5	-2 -6	-2 -8	-2 -12	-2 -16	-2 -27	-2 -42
3	6	-4 -6.5	-4 -8	-4 -9	-4 -12	-4 -16	-4 -22	-4 -34	-4 -52
6	10	-5 -7.5	-5 -9	-5 -11	-5 -14	-5 -20	-5 -27	-5 -41	-5 -63
10	18	-6 -9	-6 -11	-6 -14	-6 -17	-6 -24	-6 -33	-6 -49	-6 -76
18	30	-7 -11	-7 -13	-7 -16	-7 -20	-7 -28	-7 -40	-7 -59	-7 -91
30	50	-9 -13	-9 -16	-9 -20	-9 -25	-9 -34	-9 -48	-9 -71	-9 -109
50	80		-10 -18	-10 -23	-10 -29	-10 -40	-10 -56		
80	120		-12 -22	-12 -27	-12 -34	-12 -47	-12 -66		
120	180		-14 -26	-14 -32	-14 -39	-14 -54	-14 -77		
180	250		-15 -29	-15 -35	-15 -44	-15 -61	-15 -87		
250	315		-17 -33	-17 -40	-17 -49	-17 -69	-17 -98		
315	400		-18 -36	-18 -43	-18 -54	-18 -75	-18 -107		
400	500		-20 -40	-20 -47	-20 -60	-20 -83	-20 -117		
500	630				-22 -66	-22 -92	-22 -132		
630	800				-24 -74	-24 -104	-24 -149		
800	1 000				-26 -82	-26 -116	-26 -166		
1 000	1 250				-28 -94	-28 -133	-28 -193		
1 250	1 600				-30 -108	-30 -155	-30 -225		
1 600	2 000				-32 -124	-32 -182	-32 -262		
2 000	2 500				-34 -144	-34 -209	-34 -314		
2 500	3 150				-38 -173	-38 -248	-38 -368		

表 22 轴 h 的极限偏差

基本尺寸 mm		h																	
大于	至	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		偏 差																	
		μm										mm							
—	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-0.8	-1.2	-2	-3	-4	-6	-10	-14	-25	-40	-60	-0.1	-0.14	-0.25	-0.4	-0.6		
3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-1	-1.5	-2.5	-4	-6	-8	-12	-18	-30	-48	-75	-0.12	-0.18	-0.3	-0.48	-0.75	-1.2	-1.8
6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-1	-1.5	-2.5	-4	-6	-9	-15	-22	-36	-58	-90	-0.15	-0.22	-0.36	-0.68	-0.9	-1.5	-2.2
10	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-1.2	-2	-3	-5	-8	-11	-18	-27	-43	-70	-110	-0.18	-0.27	-0.43	-0.7	-1.1	-1.8	-2.7
18	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-1.5	-2.5	-4	-6	-9	-13	-21	-33	-52	-84	-130	-0.21	-0.33	-0.52	-0.84	-1.3	-2.1	-3.3
30	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-1.5	-2.5	-4	-7	-11	-16	-25	-39	-62	-100	-160	-0.25	-0.39	-0.62	-1	-1.6	-2.5	-3.9
50	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-2	-3	-5	-8	-13	-19	-30	-46	-74	-120	-190	-0.3	-0.46	-0.74	-1.2	-1.9	-3	-4.6
80	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-2.5	-4	-6	-10	-15	-22	-35	-54	-87	-140	-220	-0.35	-0.54	-0.87	-1.4	-2.2	-3.5	-5.4
120	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-3.5	-5	-8	-12	-18	-25	-40	-63	-100	-160	-250	-0.4	-0.63	-1	-1.6	-2.5	-4	-6.3
180	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-4.5	-7	-10	-14	-20	-29	-46	-72	-115	-185	-290	-0.46	-0.72	-1.15	-1.85	-2.9	-4.6	-7.2
250	315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-6	-8	-12	-16	-23	-32	-52	-81	-130	-210	-320	-0.52	-0.81	-1.3	-2.1	-3.2	-5.2	-8.1
315	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-7	-9	-13	-18	-25	-36	-57	-89	-140	-230	-360	-0.57	-0.89	-1.4	-2.3	-3.6	-5.7	-8.9
400	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-8	-10	-15	-20	-27	-40	-63	-97	-155	-250	-400	-0.63	-0.97	-1.55	-2.5	-4	-6.3	-9.7
500	630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-9	-11	-16	-22	-30	-44	-70	-110	-175	-280	-440	-0.7	-1.1	-1.75	-2.8	-4.4	-7	-11
630	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-10	-13	-18	-25	-34	-50	-80	-125	-200	-320	-500	-0.8	-1.25	-2	-3.2	-5	-8	-12.5
800	1 000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-11	-15	-21	-28	-38	-56	-90	-140	-230	-360	-560	-0.9	-1.4	-2.3	-3.6	-5.6	-9	-14
1 000	1 250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-13	-18	-24	-33	-45	-66	-105	-165	-260	-420	-660	-1.05	-1.65	-2.6	-4.2	-6.6	-10.5	-16.5
1 250	1 600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-15	-21	-29	-39	-53	-78	-125	-195	-310	-500	-780	-1.25	-1.95	-3.1	-5	-7.8	-12.5	-19.5
1 600	2 000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-18	-25	-35	-46	-62	-92	-150	-230	-370	-600	-920	-1.5	-2.3	-3.7	-6	-9.2	-15	-23
2 000	2 500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-22	-30	-41	-55	-75	-110	-175	-280	-440	-700	-1 100	-1.75	-2.8	-4.4	-7	-11	-17.5	-28
2 500	3 150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-25	-34	-46	-62	-85	-125	-200	-320	-500	-800	-1 250	-2	-3	-4.6	-7.5	-11.5	-18	-28

注

1 IT14 至 IT18 只用于大于 1 mm 的基本尺寸。

2 黑框中的数值,即基本尺寸大于 500~3 160 mm,IT1 至 IT5 的偏差值,为试用的。

表 23 轴 js 的极限偏差

基本尺寸 mm		js																	
大 于	至	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		偏 差																	
		μm										mm							
—	3	±0.4	±0.6	±1	±1.5	±2	±3	±5	±7	±12	±20	±30	±0.05	±0.07	±0.12	±0.2	±0.3		
3	6	±0.5	±0.75	±1.25	±2	±2.5	±4	±6	±9	±15	±24	±37	±0.06	±0.09	±0.15	±0.24	±0.37	±0.6	±0.9
6	10	±0.5	±0.75	±1.25	±2	±3	±4.5	±7	±11	±18	±29	±45	±0.075	±0.11	±0.18	±0.29	±0.45	±0.75	±1.1
10	18	±0.6	±1	±1.5	±2.5	±4	±6.5	±9	±13	±21	±35	±55	±0.09	±0.135	±0.215	±0.35	±0.55	±0.9	±1.35
18	30	±0.75	±1.25	±2	±3	±4.5	±6.5	±10	±16	±26	±42	±65	±0.105	±0.165	±0.26	±0.42	±0.65	±1.05	±1.65
30	60	±0.75	±1.25	±2	±3.5	±5.5	±8	±12	±19	±31	±50	±80	±0.125	±0.195	±0.31	±0.5	±0.8	±1.25	±1.95
60	80	±1	±1.5	±2.5	±4	±6.5	±9.5	±15	±23	±37	±60	±95	±0.15	±0.23	±0.37	±0.6	±0.95	±1.5	±2.3
80	120	±1.25	±2	±3	±5	±7.5	±11	±17	±27	±43	±70	±110	±0.175	±0.27	±0.435	±0.7	±1.1	±1.75	±2.7
120	180	±1.75	±2.5	±4	±6	±9	±12.5	±20	±31	±50	±80	±125	±0.2	±0.315	±0.5	±0.8	±1.25	±2	±3.15
180	250	±2.25	±3.5	±5	±7	±10	±14.5	±23	±36	±57	±92	±145	±0.23	±0.36	±0.575	±0.925	±1.45	±2.3	±3.6
250	315	±3	±4	±6	±8	±11.5	±16	±26	±40	±65	±105	±160	±0.26	±0.405	±0.65	±1.05	±1.6	±2.6	±4.05
315	400	±3.5	±4.5	±6.5	±9	±12.5	±18	±28	±44	±70	±115	±180	±0.285	±0.445	±0.7	±1.15	±1.8	±2.85	±4.45
400	500	±4	±5	±7.5	±10	±13.5	±20	±31	±48	±77	±125	±200	±0.315	±0.485	±0.775	±1.25	±2	±3.15	±4.85
500	630	4.5	±6.5	±8	±11	±16	±22	±35	±55	±87	±140	±220	±0.35	±0.55	±0.875	±1.4	±2.2	±3.5	±5.5
630	800	5	±6.5	±9	±12.5	±18	±25	±40	±62	±100	±160	±250	±0.4	±0.625	±1	±1.6	±2.5	±4	±6.25
800	1 000	6.5	±7.5	±10.5	±14	±20	±28	±45	±70	±115	±180	±280	±0.45	±0.7	±1.15	±1.8	±2.8	±4.5	±7
1 000	1 250	6.5	±9	±12	±16.5	±23	±33	±52	±82	±130	±210	±330	±0.525	±0.825	±1.3	±2.1	±3.3	±5.25	±8.25
1 250	1 600	7.5	±10.5	±14.5	±19.5	±27	±39	±62	±97	±155	±250	±390	±0.625	±0.975	±1.55	±2.5	±3.9	±6.25	±9.75
1 600	2 000	9	±12.5	±17.5	±23	±32	±46	±75	±116	±185	±300	±460	±0.75	±1.15	±1.85	±3	±4.6	±7.5	±11.5
2 000	2 500	11	±15	±20.5	±27.5	±39	±55	±87	±140	±220	±350	±550	±0.875	±1.4	±2.2	±3.5	±5.5	±8.75	±14
2 500	3 150	13	±18	±25	±34	±48	±67.5	±105	±165	±270	±430	±675	±1.05	±1.65	±2.7	±4.3	±6.75	±10.5	±16.5

注

- 1 为避免相同值的重复,表列值以“±X”给出,可为  $es=+X,ei=-X$ ,例如  $\begin{matrix} +0.23 \\ -0.23 \end{matrix}$  mm。
- 2 IT14 至 IT18 只用于大于 1 mm 的基本尺寸。
- 3 黑框中的数值,即基本尺寸大于 600~3 150 mm,IT1 至 IT5 的偏差值,为试用的。



表 24 轴 j 和 k 的极限偏差

μm

基本尺寸 mm		j				k										
大 于	至	5	6	7	8	3	4	5	6	7	8	9	10	11	12	13
—	3	±2	+4 -2	+6 -4	+8 -6	+2 0	+3 0	+4 0	+6 0	+10 0	+14 0	+25 0	+40 0	+60 0	+100 0	+140 0
3	6	+3 -2	+6 -2	+8 -4		+2.5 0	+5 +1	+6 +1	+9 +1	+13 +1	+18 0	+30 0	+48 0	+75 0	+120 0	+180 0
6	10	+4 -2	+7 -2	+10 -5		+2.5 0	+5 +1	+7 +1	+10 +1	+16 +1	+22 0	+36 0	+58 0	+90 0	+150 0	+220 0
10	18	+5 -3	+8 -3	+12 -6		+3 0	+6 +1	+9 +1	+12 +1	+19 +1	+27 0	+43 0	+70 0	+110 0	+180 0	+270 0
18	30	+5 -4	+9 -4	+13 -8		+4 0	+8 +2	+11 +2	+15 +2	+23 +2	+33 0	+52 0	+84 0	+130 0	+210 0	+330 0
30	50	+6 -5	+11 -5	+15 -10		+4 0	+9 +2	+13 +2	+18 +2	+27 +2	+39 0	+62 0	+100 0	+160 0	+250 0	+390 0
50	80	+6 -7	+12 -7	+18 -12			+10 +2	+15 +2	+21 +2	+32 +2	+46 0	+74 0	+120 0	+190 0	+300 0	+460 0
80	120	+6 -9	+13 -9	+20 -15			+13 +3	+18 +3	+25 +3	+38 +3	+54 0	+87 0	+140 0	+220 0	+350 0	+540 0
120	180	+7 -11	+14 -11	+22 -18			+15 +3	+21 +3	+28 +3	+43 +3	+63 0	+100 0	+160 0	+250 0	+400 0	+630 0
180	250	+7 -13	+16 -13	+25 -21			+18 +4	+24 +4	+33 +4	+50 +4	+72 0	+115 0	+185 0	+290 0	+460 0	+720 0
250	315	+7 -16	±16	±26			+20 +4	+27 +4	+36 +4	+56 +4	+81 0	+130 0	+210 0	+320 0	+520 0	+810 0
315	400	+7 -18	±18	+29 -28			+22 +4	+29 +4	+40 +4	+61 +4	+89 0	+140 0	+230 0	+360 0	+570 0	+890 0
400	500	+7 -20	±20	+31 -32			+25 +5	+32 +5	+45 +5	+68 +5	+97 0	+155 0	+250 0	+400 0	+630 0	+970 0
500	630								+44 0	+70 0	+110 0	+175 0	+280 0	+440 0	+700 0	+1 100 0
630	800								+50 0	+80 0	+125 0	+200 0	+320 0	+500 0	+800 0	+1 250 0
800	1 000								+56 0	+90 0	+140 0	+230 0	+360 0	+560 0	+900 0	+1 400 0
1 000	1 250								+66 0	+105 0	+165 0	+260 0	+420 0	+660 0	+1 050 0	+1 650 0
1 250	1 600								+78 0	+125 0	+195 0	+310 0	+500 0	+780 0	+1 250 0	+1 950 0
1 600	2 000								+92 0	+150 0	+230 0	+370 0	+600 0	+920 0	+1 500 0	+2 300 0
2 000	2 500								+110 0	+175 0	+280 0	+440 0	+700 0	+1 100 0	+1 750 0	+2 800 0
2 500	3 150								+135 0	+210 0	+330 0	+540 0	+860 0	+1 350 0	+2 100 0	+3 300 0

注：j5、j6 和 j7 的某些极限值与 js5、js6 和 js7 一样用“±X”表示。

表 25 轴 m 和 n 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		m							n						
大于	至	3	4	5	6	7	8	9	3	4	5	6	7	8	9
—	3	+4 +2	+5 +2	+6 +2	+8 +2	+12 +2	+16 +2	+27 +2	+6 +4	+7 +4	+8 +4	+10 +4	+14 +4	+18 +4	+29 +4
3	6	+6.5 +4	+8 +4	+9 +4	+12 +4	+16 +4	+22 +4	+34 +4	+10.5 +8	+12 +8	+13 +8	+16 +8	+20 +8	+26 +8	+38 +8
6	10	+8.5 +6	+10 +6	+12 +6	+15 +6	+21 +6	+28 +6	+42 +6	+12.5 +10	+14 +10	+16 +10	+19 +10	+25 +10	+32 +10	+46 +10
10	18	+10 +7	+12 +7	+15 +7	+18 +7	+25 +7	+34 +7	+50 +7	+15 +12	+17 +12	+20 +12	+23 +12	+30 +12	+39 +12	+55 +12
18	30	+12 +8	+14 +8	+17 +8	+21 +8	+29 +8	+41 +8	+60 +8	+19 +15	+21 +15	+24 +15	+28 +15	+36 +15	+48 +15	+67 +15
30	50	+13 +9	+16 +9	+20 +9	+25 +9	+34 +9	+48 +9	+71 +9	+21 +17	+24 +17	+28 +17	+33 +17	+42 +17	+56 +17	+79 +17
50	80		+19 +11	+24 +11	+30 +11	+41 +11				+28 +20	+33 +20	+39 +20	+50 +20		
80	120		+23 +13	+28 +13	+35 +13	+48 +13				+33 +23	+38 +23	+45 +23	+58 +23		
120	180		+27 +15	+33 +15	+40 +15	+55 +15				+39 +27	+45 +27	+52 +27	+67 +27		
180	250		+31 +17	+37 +17	+46 +17	+63 +17				+45 +31	+51 +31	+60 +31	+77 +31		
250	315		+36 +20	+43 +20	+52 +20	+72 +20				+50 +34	+57 +34	+66 +34	+86 +34		
315	400		+39 +21	+46 +21	+57 +21	+78 +21				+55 +37	+62 +37	+73 +37	+94 +37		
400	500		+43 +23	+50 +23	+63 +23	+86 +23				+60 +40	+67 +40	+80 +40	+103 +40		
500	630				+70 +26	+96 +26						+88 +44	+114 +44		
630	800				+80 +30	+110 +30						+100 +50	+130 +50		
800	1 000				+90 +34	+124 +34						+112 +56	+146 +56		
1 000	1 250				+106 +40	+145 +40						+132 +66	+171 +66		
1 250	1 600				+126 +48	+173 +48						+156 +78	+203 +78		
1 600	2 000				+150 +58	+208 +58						+184 +92	+242 +92		
2 000	2 500				+178 +68	+243 +68						+220 +110	+285 +110		
2 500	3 150				+211 +76	+286 +76						+270 +135	+345 +135		

表 26 轴 p 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		p							
大于	至	3	4	5	6	7	8	9	10
—	3	+8 +6	+9 +6	+10 +6	+12 +6	+16 +6	+20 +6	+31 +6	+46 +6
3	6	+14.5 +12	+16 +12	+17 +12	+20 +12	+24 +12	+30 +12	+42 +12	+60 +12
6	10	+17.5 +15	+19 +15	+21 +15	+24 +15	+30 +15	+37 +15	+51 +15	+73 +15
10	18	+21 +18	+23 +18	+26 +18	+29 +18	+36 +18	+45 +18	+61 +18	+88 +18
18	30	+26 +22	+28 +22	+31 +22	+35 +22	+43 +22	+55 +22	+74 +22	+106 +22
30	50	+30 +26	+33 +26	+37 +26	+42 +26	+51 +26	+65 +26	+88 +26	+126 +26
50	80		+40 +32	+45 +32	+51 +32	+62 +32	+78 +32		
80	120		+47 +37	+52 +37	+59 +37	+72 +37	+91 +37		
120	180		+55 +43	+61 +43	+68 +43	+83 +43	+106 +43		
180	250		+64 +50	+70 +50	+79 +50	+96 +50	+122 +50		
250	315		+72 +56	+79 +56	+88 +56	+108 +56	+137 +56		
315	400		+80 +62	+87 +62	+98 +62	+119 +62	+151 +62		
400	500		+88 +68	+95 +68	+108 +68	+131 +68	+165 +68		
500	630				+122 +78	+148 +78	+188 +78		
630	800				+138 +88	+168 +88	+213 +88		
800	1 000				+156 +100	+190 +100	+240 +100		
1 000	1 250				+186 +120	+225 +120	+285 +120		
1 250	1 600				+218 +140	+265 +140	+335 +140		
1 600	2 000				+262 +170	+320 +170	+400 +170		
2 000	2 500				+305 +195	+370 +195	+475 +195		
2 500	3 150				+375 +240	+450 +240	+570 +240		

表 27 轴 r 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		r							
大于	至	3	4	5	6	7	8	9	10
—	3	+12 +10	+13 +10	+14 +10	+16 +10	+20 +10	+24 +10	+35 +10	+50 +10
3	6	+17.5 +15	+19 +15	+20 +15	+23 +15	+27 +15	+33 +15	+45 +15	+63 +15
6	10	+21.5 +19	+23 +19	+25 +19	+28 +19	+34 +19	+41 +19	+55 +19	+77 +19
10	18	+26 +23	+28 +23	+31 +23	+34 +23	+41 +23	+50 +23	+66 +23	+93 +23
18	30	+32 +28	+34 +28	+37 +28	+41 +28	+49 +28	+61 +28	+80 +28	+112 + 28
30	50	+38 +34	+41 +34	+45 +34	+50 +34	+59 +34	+73 +34	+96 +34	+134 + 34
50	65		+49 +41	+54 +41	+60 +41	+71 +41	+87 +41		
65	80		+51 +43	+56 +43	+62 +43	+72 +43	+89 +43		
80	100		+61 +51	+66 +51	+73 +51	+86 +51	+105 + 51		
100	120		+64 +54	+69 +54	+76 +54	+89 +54	+108 + 54		
120	140		+75 +63	+81 +63	+88 +63	+103 + 63	+126 + 63		
140	160		+77 +65	+83 +65	+90 +65	+105 + 65	+128 + 65		
160	180		+80 +68	+86 +68	+93 +68	+108 + 68	+131 + 68		
180	200		+91 +77	+97 +77	+106 + 77	+123 + 77	+149 + 77		
200	225		+94 +80	+100 + 80	+109 + 80	+126 + 80	+152 + 80		
225	250		+98 +84	+104 + 84	+113 + 84	+130 + 84	+156 + 84		
250	280		+110 + 94	+117 + 94	+126 + 94	+146 + 94	+175 + 94		
280	315		+114 + 98	+121 + 98	+130 + 98	+150 + 98	+179 + 98		
315	355		+126 +108	+133 +108	+144 +108	+165 +108	+197 +108		

表 27 (完)

 $\mu\text{m}$ 

基本尺寸 mm		r							
大于	至	3	4	5	6	7	8	9	10
355	400		+132 +114	+139 +114	+150 +114	+171 +114	+203 +114		
400	450		+146 +126	+153 +126	+166 +126	+189 +126	+223 +126		
450	500		+152 +132	+159 +132	+172 +132	+195 +132	+229 +132		
500	560				+194 +150	+220 +150	+260 +150		
560	630				+199 +155	+225 +155	+265 +155		
630	710				+225 +175	+255 +175	+300 +175		
710	800				+235 +185	+265 +185	+310 +185		
800	900				+266 +210	+300 +210	+350 +210		
900	1 000				+276 +220	+310 +220	+360 +220		
1 000	1 120				+316 +250	+355 +250	+415 +250		
1 120	1 250				+326 +260	+365 +260	+425 +250		
1 250	1 400				+378 +300	+425 +300	+495 +300		
1 400	1 600				+408 +330	+455 +330	+525 +330		
1 600	1 800				+462 +370	+520 +370	+600 +370		
1 800	2 000				+492 +400	+550 +400	+630 +400		
2 000	2 240				+550 +440	+615 +440	+720 +440		
2 240	2 500				+570 +460	+635 +460	+740 +460		
2 500	2 800				+685 +550	+760 +550	+880 +550		
2 800	3 150				+715 +580	+790 +580	+910 +580		

表 28 轴 s 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		s							
大于	至	3	4	5	6	7	8	9	10
—	3	+16 +14	+17 +14	+18 +14	+20 +14	+24 +14	+28 +24	+39 +14	+54 +14
3	6	+21.5 +19	+23 +19	+24 +19	+27 +19	+31 +19	+37 +19	+49 +19	+67 +19
6	10	+25.5 +23	+27 +23	+29 +23	+32 +23	+38 +23	+45 +23	+59 +23	+81 +23
10	18	+31 +28	+33 +28	+36 +28	+39 +28	+46 +28	+55 +28	+71 +28	+98 +28
18	30	+39 +25	+41 +35	+44 +35	+48 +35	+56 +35	+68 +35	+87 +35	+119 +35
30	50	+47 +43	+50 +43	+54 +43	+59 +43	+68 +43	+82 +43	+105 +43	+143 +43
50	65		+61 +53	+66 +53	+72 +53	+83 +53	+99 +53	+127 +53	
65	80		+67 +59	+72 +59	+78 +59	+89 +59	+105 +59	+133 +59	
80	100		+81 +71	+86 +71	+93 +71	+106 +71	+125 +71	+158 +71	
100	120		+89 +79	+94 +79	+101 +79	+114 +79	+133 +79	+166 +79	
120	140		+104 +92	+110 +92	+117 +92	+132 +92	+155 +92	+192 +92	
140	160		+112 +100	+118 +100	+125 +100	+140 +100	+163 +100	+200 +100	
160	180		+120 +108	+126 +108	+133 +108	+148 +108	+171 +108	+208 +108	
180	200		+136 +122	+142 +122	+151 +122	+168 +122	+194 +122	+237 +122	
200	225		+144 +130	+150 +130	+159 +130	+176 +130	+202 +130	+245 +130	
225	250		+154 +140	+160 +140	+169 +140	+186 +140	+212 +140	+255 +140	
250	280		+174 +158	+181 +158	+190 +158	+210 +158	+239 +158	+288 +158	
280	315		+186 +170	+193 +170	+202 +170	+222 +170	+251 +170	+300 +170	
315	355		+208 +190	+215 +190	+226 +190	+247 +190	+279 +190	+330 +190	

表 28 (完)

 $\mu\text{m}$ 

基本尺寸 mm		s							
大于	至	3	4	5	6	7	8	9	10
355	400		+226 +208	+233 +208	+244 +208	+265 +208	+297 +208	+348 +208	
400	450		+252 +232	+259 +232	+272 +232	+295 +232	+329 +232	+387 +232	
450	500		+272 +252	+279 +252	+292 +252	+315 +252	+349 +252	+407 +252	
500	560				+324 +280	+350 +280	+390 +280		
560	630				+354 +310	+380 +310	+420 +310		
630	710				+390 +340	+420 +340	+465 +340		
710	800				+430 +380	+460 +380	+505 +380		
800	900				+486 +430	+520 +430	+570 +430		
900	1 000				+526 +470	+560 +470	+610 +470		
1 000	1 120				+586 +520	+625 +520	+685 +520		
1 120	1 250				+646 +580	+685 +580	+745 +580		
1 250	1 400				+718 +640	+765 +640	+835 +640		
1 400	1 600				+798 +720	+845 +720	+915 +720		
1 600	1 800				+912 +820	+970 +820	+1 050 + 820		
1 800	2 000				+1 012 + 920	+1 070 + 920	+1 150 + 920		
2 000	2 240				+1 110 +1 000	+1 175 +1 000	+1 280 +1 000		
2 240	2 500				+1 210 +1 100	+1 275 +1 100	+1 380 +1 100		
2 500	2 800				+1 385 +1 250	+1 460 +1 250	+1 580 +1 250		
2 800	3 150				+1 535 +1 400	+1 610 +1 400	+1 730 +1 400		

表 29 轴 t 和 u 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		r				u				
大于	至	5	6	7	8	5	6	7	8	9
—	3					+22 +18	+24 +18	+28 +18	+32 +18	+43 +18
3	6					+28 +23	+31 +23	+35 +23	+41 +23	+53 +23
6	10					+34 +28	+37 +28	+43 +28	+50 +28	+64 +28
10	18					+41 +33	+44 +33	+51 +33	+60 +33	+76 +33
18	24					+50 +41	+54 +41	+62 +41	+74 +41	+93 +41
24	30	+50 +41	+54 +41	+62 +41	+74 +41	+57 +48	+61 +48	+69 +48	+81 +48	+100 +48
30	40	+59 +48	+64 +48	+73 +48	+87 +48	+71 +60	+76 +60	+85 +60	+99 +60	+122 +60
40	50	+65 +54	+70 +54	+79 +54	+93 +54	+81 +70	+86 +70	+95 +70	+109 +70	+132 +70
50	65	+79 +66	+85 +66	+96 +66	+112 +66	+100 +87	+106 +87	+117 +87	+133 +87	+161 +87
65	80	+88 +75	+94 +75	+105 +75	+121 +75	+115 +102	+121 +102	+132 +102	+148 +102	+176 +102
80	100	+106 +91	+113 +91	+126 +91	+145 +91	+139 +124	+146 +124	+159 +124	+178 +124	+211 +124
100	120	+119 +104	+126 +104	+139 +104	+158 +104	+159 +144	+166 +144	+179 +144	+198 +144	+231 +144
120	140	+140 +122	+147 +122	+162 +122	+185 +122	+188 +170	+195 +170	+210 +170	+233 +170	+270 +170
140	160	+152 +134	+159 +134	+174 +134	+197 +134	+208 +190	+215 +190	+230 +190	+253 +190	+290 +190
160	180	+164 +146	+171 +146	+186 +146	+209 +146	+228 +210	+235 +210	+250 +210	+273 +210	+310 +210
180	200	+186 +166	+195 +166	+212 +166	+238 +166	+256 +236	+265 +236	+282 +236	+308 +236	+351 +236
200	225	+200 +180	+209 +180	+226 +180	+252 +180	+278 +258	+287 +258	+304 +258	+330 +258	+373 +258
225	250	+216 +196	+225 +196	+242 +196	+268 +196	+304 +284	+313 +284	+330 +284	+356 +284	+399 +284
250	280	+241 +218	+250 +218	+270 +218	+299 +218	+338 +315	+347 +315	+367 +315	+396 +315	+445 +315
280	315	+263 +240	+272 +240	+292 +240	+321 +240	+373 +350	+382 +350	+402 +350	+431 +350	+480 +350



表 29 (完)

 $\mu\text{m}$ 

基本尺寸 mm		r				u				
大于	至	5	6	7	8	5	6	7	8	9
315	355	+293 +268	+304 +268	+325 +268	+357 +268	+415 +390	+426 +390	+447 +390	+479 +390	+530 +390
355	400	+319 +294	+330 +294	+351 +294	+383 +294	+460 +435	+471 +435	+492 +435	+524 +435	+575 +435
400	450	+357 +330	+370 +330	+393 +330	+427 +330	+517 +490	+530 +490	+553 +490	+587 +490	+645 +490
450	500	+387 +360	+400 +360	+423 +360	+457 +360	+567 +540	+580 +540	+603 +540	+637 +540	+695 +540
500	560		+444 +400	+470 +400			+644 +600	+670 +600	+710 +600	
560	630		+494 +450	+520 +450			+704 +660	+730 +660	+770 +660	
630	710		+550 +500	+580 +500			+790 +740	+820 +740	+865 +740	
710	800		+610 +560	+640 +560			+890 +840	+920 +840	+965 +840	
800	900		+676 +620	+710 +620			+996 +940	+1 030 + 940	+1 080 + 940	
900	1 000		+736 +680	+770 +680			+1 106 +1 050	+1 140 +1 050	+1 190 +1 050	
1 000	1 120		+846 +780	+885 +780			+1 216 +1 150	+1 255 +1 150	+1 315 +1 150	
1 120	1 250		+906 +840	+945 +840			+1 366 +1 300	+1 405 +1 300	+1 465 +1 300	
1 250	1 400		+1 038 + 960	+1 085 + 960			+1 528 +1 450	+1 575 +1 450	+1 645 +1 450	
1 400	1 600		+1 128 +1 050	+1 175 +1 050			+1 678 +1 600	+1 725 +1 600	+1 795 +1 600	
1 600	1 800		+1 292 +1 200	+1 350 +1 200			+1 942 +1 850	+2 000 +1 850	+2 080 +1 850	
1 800	2 000		+1 442 +1 350	+1 500 +1 350			+2 092 +2 000	+2 150 +2 000	+2 230 +2 000	
2 000	2 240		+1 610 +1 500	+1 675 +1 500			+2 410 +2 300	+2 475 +2 300	+2 580 +2 300	
2 240	2 500		+1 760 +1 650	+1 825 +1 650			+2 610 +2 500	+2 675 +2 500	+2 780 +2 500	
2 500	2 800		+2 035 +1 900	+2 110 +1 900			+3 035 +2 900	+3 110 +2 900	+3 230 +2 900	
2 800	3 150		+2 235 +2 100	+2 310 +2 100			+3 335 +3 200	+3 410 +3 200	+3 530 +3 200	

注：基本尺寸至 24 mm 的 t5 至 t8 的偏差值未列入表内，建议以 u5 至 u8 代替。如非要 t5 至 t8，则可按 GB/T 1800.3 计算。

表 30 轴 v、x 和 y 的极限偏差

μm

基本尺寸 mm		v				x						y				
大于	至	5	6	7	8	5	6	7	8	9	10	6	7	8	9	10
—	3					+24	+26	+30	+34	+45	+60					
						+20	+20	+20	+20	+20	+20					
3	6					+33	+36	+40	+46	+58	+76					
						+28	+28	+28	+28	+28	+28					
6	10					+40	+43	+49	+56	+70	+92					
						+34	+34	+34	+34	+34	+34					
10	14					+48	+51	+58	+67	+83	+110					
						+40	+40	+40	+40	+40	+40					
14	18	+47	+50	+57	+66	+53	+56	+63	+72	+88	+116					
		+39	+39	+39	+39	+45	+45	+45	+45	+45	+45					
18	24	+56	+60	+68	+80	+63	+67	+76	+87	+106	+138	+76	+84	+96	+116	+147
		+47	+47	+47	+47	+54	+54	+54	+54	+54	+54	+63	+63	+63	+63	+63
24	30	+64	+68	+76	+88	+73	+77	+85	+97	+116	+148	+88	+96	+108	+127	+169
		+55	+55	+55	+55	+64	+64	+64	+64	+64	+64	+75	+75	+75	+75	+75
30	40	+79	+84	+93	+107	+91	+96	+105	+119	+142	+180	+110	+119	+133	+156	+194
		+68	+68	+68	+68	+80	+80	+80	+80	+80	+80	+94	+94	+94	+94	+94
40	50	+92	+97	+106	+120	+108	+113	+122	+136	+169	+197	+130	+139	+163	+176	+214
		+81	+81	+81	+81	+97	+97	+97	+97	+97	+97	+114	+114	+114	+114	+114
50	65	+116	+121	+132	+148	+136	+141	+152	+168	+196	+242	+163	+174	+190		
		+102	+102	+102	+102	+122	+122	+122	+122	+122	+122	+144	+144	+144		
65	80	+133	+139	+150	+166	+159	+165	+176	+192	+220	+266	+193	+204	+220		
		+120	+120	+120	+120	+146	+146	+146	+146	+146	+146	+174	+174	+174		
80	100	+161	+168	+181	+200	+193	+200	+213	+232	+265	+318	+236	+249	+268		
		+146	+146	+146	+146	+178	+178	+178	+178	+178	+178	+214	+214	+214		
100	120	+187	+194	+207	+226	+225	+232	+245	+264	+297	+350	+276	+289	+308		
		+172	+172	+172	+172	+210	+210	+210	+210	+210	+210	+254	+254	+254		
120	140	+220	+227	+242	+265	+266	+273	+288	+311	+348	+408	+325	+340	+363		
		+202	+202	+202	+202	+248	+248	+248	+248	+248	+248	+300	+300	+300		
140	160	+246	+253	+268	+291	+298	+305	+320	+343	+380	+440	+365	+380	+403		
		+223	+223	+223	+223	+280	+280	+280	+280	+280	+280	+340	+340	+340		
160	180	+270	+277	+292	+315	+328	+335	+350	+373	+410	+470	+405	+420	+443		
		+252	+252	+252	+252	+310	+310	+310	+310	+310	+310	+380	+380	+380		
180	200	+304	+313	+330	+356	+370	+379	+396	+422	+465	+535	+454	+471	+497		
		+284	+284	+284	+284	+350	+350	+350	+350	+350	+350	+425	+425	+425		
200	225	+330	+339	+356	+382	+405	+414	+431	+457	+500	+570	+499	+516	+542		
		+310	+310	+310	+310	+385	+385	+385	+385	+385	+385	+470	+470	+470		
225	260	+360	+369	+386	+412	+445	+454	+471	+497	+540	+610	+549	+566	+592		
		+340	+340	+340	+340	+425	+425	+425	+425	+425	+425	+520	+520	+520		
250	280	+408	+417	+437	+466	+498	+507	+527	+556	+605	+685	+612	+632	+661		
		+385	+385	+385	+385	+475	+475	+475	+475	+475	+475	+580	+580	+580		
280	315	+448	+457	+477	+506	+548	+557	+577	+606	+655	+735	+682	+702	+731		
		+425	+425	+425	+425	+525	+525	+525	+525	+525	+525	+650	+650	+650		
315	355	+500	+511	+532	+564	+615	+625	+647	+679	+730	+820	+766	+787	+819		
		+475	+475	+475	+475	+590	+590	+590	+590	+590	+590	+730	+730	+730		
355	400	+555	+566	+587	+619	+685	+696	+717	+749	+800	+890	+856	+877	+909		
		+530	+530	+530	+530	+660	+660	+660	+660	+660	+660	+820	+820	+820		
400	450	+622	+635	+658	+692	+767	+780	+803	+837	+895	+990	+960	+983	+1 017		
		+595	+595	+595	+595	+740	+740	+740	+740	+740	+740	+920	+920	+920		
450	500	+687	+700	+723	+757	+847	+860	+883	+917	+975	+1 070	+1 040	+1 063	+1 097		
		+660	+660	+660	+660	+820	+820	+820	+820	+820	+820	+1 000	+1 000	+1 000		

注  
 1 基本尺寸至 14 mm 的 v5 至 v8 的偏差值未列入表内,建议以 x5 至 x8 代替。如非要 v5 至 v8,则可按 GB/T 1800.3 计算。  
 2 基本尺寸至 18 mm 的 y6 至 y10 的偏差值未列入表内,建议以 z6 至 z10 代替。如非要 y6 至 y10,则可按 GB/T 1800.3 计算。

表 31 轴 z 和 za 的极限偏差

μm

基本尺寸 mm		z						za					
大于	至	6	7	8	9	10	11	6	7	8	9	10	11
—	3	+32 +26	+36 +26	+40 +26	+51 +26	+66 +26	+86 +26	+38 +32	+42 +32	+46 +32	+57 +32	+72 +32	+92 +32
3	6	+43 +35	+47 +35	+53 +35	+65 +35	+83 +35	+110 +35	+50 +42	+54 +42	+60 +42	+72 +42	+90 +42	+117 +42
6	10	+51 +42	+57 +42	+64 +42	+78 +42	+100 +42	+132 +42	+61 +62	+67 +62	+74 +62	+88 +62	+110 +62	+142 +62
10	14	+61 +50	+68 +50	+77 +50	+93 +50	+120 +50	+160 +50	+75 +64	+82 +64	+91 +64	+107 +64	+134 +64	+174 +64
14	18	+71 +60	+78 +60	+87 +60	+103 +60	+130 +60	+170 +60	+88 +77	+96 +77	+104 +77	+120 +77	+147 +77	+187 +77
18	24	+86 +73	+94 +73	+106 +73	+125 +73	+167 +73	+203 +73	+111 +98	+119 +98	+131 +98	+150 +98	+182 +98	+228 +98
24	30	+101 +88	+109 +88	+121 +88	+140 +88	+172 +88	+218 +88	+131 +118	+139 +118	+151 +118	+170 +118	+202 +118	+248 +118
30	40	+128 +112	+137 +112	+151 +112	+174 +112	+212 +112	+272 +112	+164 +148	+173 +148	+187 +148	+210 +148	+248 +148	+308 +148
40	50	+162 +136	+161 +136	+175 +136	+198 +136	+236 +136	+296 +136	+196 +180	+205 +180	+219 +180	+242 +180	+280 +180	+340 +180
50	65	+191 +172	+202 +172	+218 +172	+246 +172	+292 +172	+362 +172	+245 +226	+256 +226	+272 +226	+300 +226	+346 +226	+416 +226
65	80	+229 +210	+240 +210	+256 +210	+284 +210	+330 +210	+400 +210	+293 +274	+304 +274	+320 +274	+348 +274	+394 +274	+464 +274
80	100	+280 +258	+293 +258	+312 +258	+345 +258	+398 +258	+478 +258	+357 +335	+370 +335	+389 +335	+422 +335	+476 +335	+565 +335
100	120	+332 +310	+345 +310	+364 +310	+397 +310	+450 +310	+530 +310	+422 +400	+435 +400	+454 +400	+487 +400	+540 +400	+620 +400
120	140	+390 +365	+405 +365	+428 +365	+465 +365	+525 +365	+615 +365	+495 +470	+510 +470	+533 +470	+570 +470	+630 +470	+720 +470
140	160	+440 +415	+455 +415	+478 +415	+515 +415	+575 +415	+665 +415	+560 +535	+575 +535	+598 +535	+635 +535	+695 +535	+785 +535
160	180	+490 +465	+505 +465	+528 +465	+565 +465	+625 +465	+715 +465	+625 +600	+640 +600	+663 +600	+700 +600	+760 +600	+850 +600
180	200	+549 +520	+566 +520	+592 +520	+635 +520	+705 +520	+810 +520	+699 +670	+716 +670	+742 +670	+785 +670	+855 +670	+960 +670
200	225	+604 +575	+621 +575	+647 +575	+690 +575	+760 +575	+865 +575	+769 +740	+786 +740	+812 +740	+855 +740	+925 +740	+1 030 +740
225	250	+669 +640	+686 +640	+712 +640	+755 +640	+825 +640	+930 +640	+849 +820	+866 +820	+892 +820	+935 +820	+1 005 +820	+1 110 +820
250	280	+742 +710	+762 +710	+791 +710	+840 +710	+920 +710	+1 030 +710	+952 +920	+972 +920	+1 001 +920	+1 050 +920	+1 130 +920	+1 240 +920
280	315	+822 +790	+842 +790	+871 +790	+920 +790	+1 000 +790	+1 110 +790	+1 032 +1 000	+1 052 +1 000	+1 081 +1 000	+1 130 +1 000	+1 210 +1 000	+1 320 +1 000
315	355	+936 +900	+957 +900	+989 +900	+1 040 +900	+1 130 +900	+1 260 +900	+1 186 +1 150	+1 207 +1 150	+1 239 +1 150	+1 290 +1 150	+1 380 +1 150	+1 510 +1 150
355	400	+1 036 +1 000	+1 057 +1 000	+1 089 +1 000	+1 140 +1 000	+1 230 +1 000	+1 360 +1 000	+1 336 +1 300	+1 357 +1 300	+1 389 +1 300	+1 440 +1 300	+1 530 +1 300	+1 660 +1 300
400	450	+1 140 +1 100	+1 163 +1 100	+1 197 +1 100	+1 255 +1 100	+1 350 +1 100	+1 500 +1 100	+1 450 +1 450	+1 513 +1 450	+1 547 +1 450	+1 605 +1 450	+1 700 +1 450	+1 850 +1 450
450	500	+1 290 +1 250	+1 313 +1 250	+1 347 +1 250	+1 405 +1 250	+1 500 +1 250	+1 650 +1 250	+1 650 +1 600	+1 640 +1 600	+1 663 +1 600	+1 697 +1 600	+1 755 +1 600	+2 000 +1 600

表 32 轴 zb 和 zc 的极限偏差

 $\mu\text{m}$ 

基本尺寸 mm		zb					zc				
大于	至	7	8	9	10	11	7	8	9	10	11
—	3	+50 +40	+54 +40	+65 +40	+80 +40	+100 +40	+70 +60	+74 +60	+85 +60	+100 +60	+120 +60
3	6	+62 +50	+68 +50	+80 +50	+98 +50	+125 +50	+92 +80	+98 +80	+110 +80	+128 +80	+155 +80
6	10	+82 +67	+89 +67	+103 +67	+125 +67	+157 +67	+112 +97	+119 +97	+133 +97	+155 +97	+187 +97
10	14	+108 +90	+117 +90	+133 +90	+160 +90	+200 +90	+148 +130	+157 +130	+173 +130	+200 +130	+240 +130
14	18	+126 +108	+135 +108	+151 +108	+178 +108	+218 +108	+168 +150	+177 +150	+193 +150	+220 +150	+260 +150
18	24	+157 +136	+169 +136	+188 +136	+220 +136	+266 +136	+209 +188	+221 +188	+240 +188	+272 +188	+318 +188
24	30	+181 +160	+193 +160	+212 +160	+244 +160	+290 +160	+239 +218	+251 +218	+270 +218	+302 +218	+348 +218
30	40	+225 +200	+239 +200	+262 +200	+300 +200	+360 +200	+299 +274	+313 +274	+336 +274	+374 +274	+434 +274
40	50	+267 +242	+281 +242	+304 +242	+342 +242	+402 +242	+350 +325	+364 +325	+387 +325	+425 +325	+485 +325
50	65	+330 +300	+346 +300	+374 +300	+420 +300	+490 +300	+435 +405	+451 +405	+479 +405	+525 +405	+595 +405
65	80	+390 +360	+406 +360	+434 +360	+480 +360	+550 +360	+510 +480	+526 +480	+554 +480	+600 +480	+670 +480
80	100	+480 +445	+499 +445	+532 +445	+585 +445	+665 +445	+620 +585	+639 +585	+672 +585	+725 +585	+805 +585
100	120	+560 +525	+579 +525	+612 +525	+665 +525	+745 +525	+725 +690	+744 +690	+777 +690	+830 +690	+910 +690
120	140	+660 +620	+683 +620	+720 +620	+780 +620	+870 +620	+840 +800	+863 +800	+900 +800	+960 +800	+1 050 +800
140	160	+740 +700	+763 +700	+800 +700	+860 +700	+950 +700	+940 +900	+963 +900	+1 000 +900	+1 060 +900	+1 150 +900
160	180	+820 +780	+843 +780	+880 +780	+940 +780	+1 030 +780	+1 040 +1 000	+1 063 +1 000	+1 100 +1 000	+1 160 +1 000	+1 250 +1 000
180	200	+926 +880	+952 +880	+995 +880	+1 065 +880	+1 170 +880	+1 196 +1 150	+1 222 +1 150	+1 265 +1 150	+1 335 +1 150	+1 440 +1 150
200	225	+1 006 +960	+1 032 +960	+1 075 +960	+1 145 +960	+1 250 +960	+1 296 +1 250	+1 322 +1 250	+1 365 +1 250	+1 435 +1 250	+1 540 +1 250
225	250	+1 096 +1 050	+1 122 +1 050	+1 165 +1 050	+1 235 +1 050	+1 340 +1 050	+1 396 +1 350	+1 422 +1 350	+1 465 +1 350	+1 535 +1 350	+1 640 +1 350

表 32 (完)

 $\mu\text{m}$ 

基本尺寸 mm		zb					zc				
大于	至	7	8	9	10	11	7	8	9	10	11
250	280	+1 252 +1 200	+1 281 +1 200	+1 330 +1 200	+1 410 +1 200	+1 520 +1 200	+1 602 +1 550	+1 631 +1 550	+1 680 +1 550	+1 760 +1 550	+1 870 +1 550
280	315	+1 352 +1 300	+1 381 +1 300	+1 430 +1 300	+1 510 +1 300	+1 620 +1 300	+1 752 +1 700	+1 781 +1 700	+1 830 +1 700	+1 910 +1 700	+2 020 +1 700
315	355	+1 557 +1 500	+1 589 +1 500	+1 640 +1 500	+1 730 +1 500	+1 860 +1 500	+1 957 +1 900	+1 989 +1 900	+2 040 +1 900	+2 130 +1 900	+2 260 +1 900
355	400	+1 707 +1 650	+1 739 +1 650	+1 790 +1 650	+1 880 +1 650	+2 010 +1 650	+2 1570 +2 100	+2 189 +2 100	+2 240 +2 100	+2 330 +2 100	+2 460 +2 100
400	450	+1 913 +1 850	+1 947 +1 850	+2 005 +1 850	+2 100 +1 850	+2 250 +1 850	+2 463 +2 400	+2 497 +2 400	+2 555 +2 400	+2 650 +2 400	+2 800 +2 400
450	500	+2 163 +2 100	+2 197 +2 100	+2 255 +2 100	+2 350 +2 100	+2 500 +2 100	+2 663 +2 600	+2 697 +2 600	+2 755 +2 600	+2 850 +2 600	+3 000 +2 600

附录 A  
(提示的附录)  
孔、轴公差带的图示

### A1 孔公差带的图示

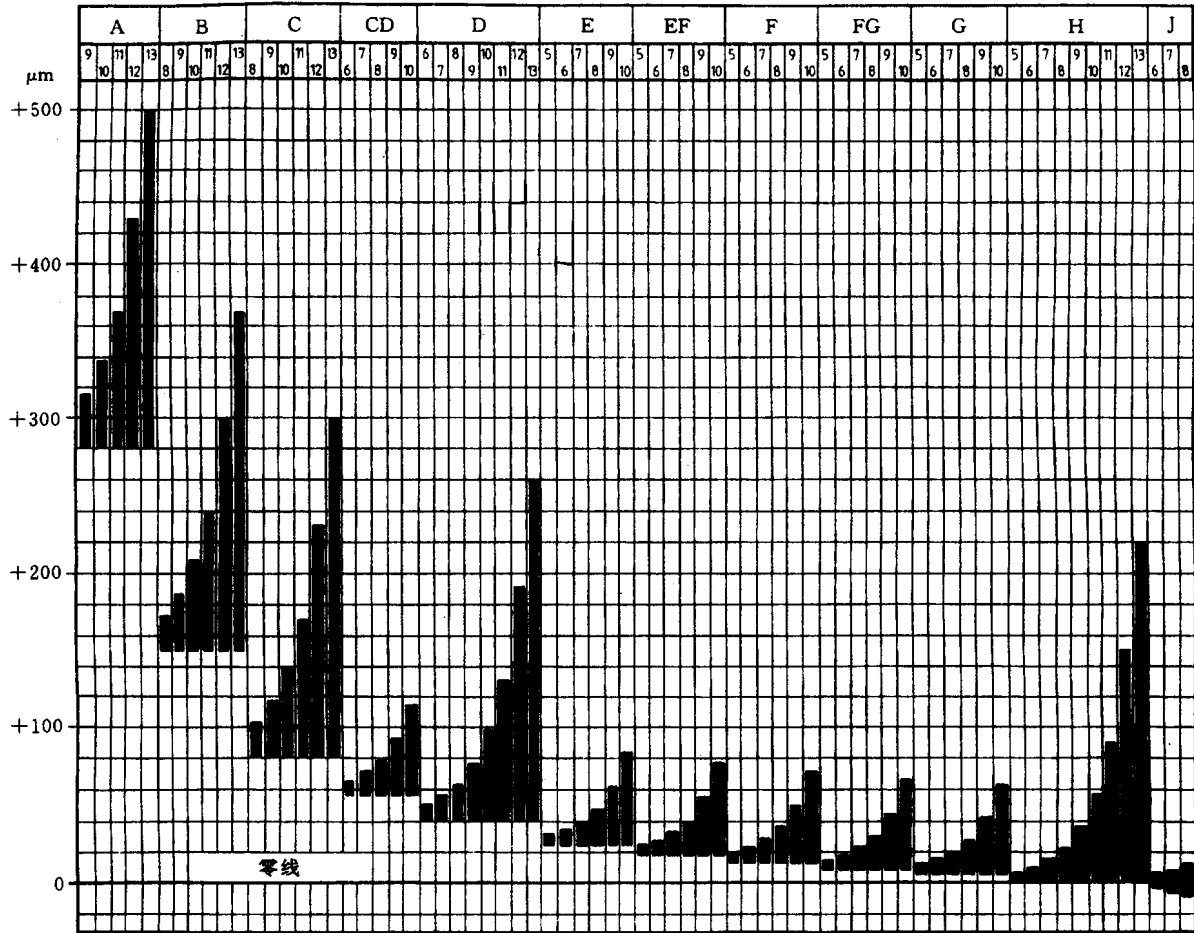
图 A1 和图 A2 给出了选择的孔公差带的图示。图 A1 是以基本偏差(A 至 ZC)图示的孔公差带,图 A2 是以公差等级(IT5 至 IT11)图示的同一孔公差带。图 A1 和图 A2 只示出本标准中给出的部分公差带。

为了比较起见,图中的公差带是以大于 6~10 mm 的基本尺寸段给出的 ES、EI 和 IT 的数值绘制的。对该基本尺寸段表中无基本偏差 T、V 和 Y 的公差带,则以大于 24~30 mm 的基本尺寸段给出的数值绘制。

### A2 轴公差带的图示

图 A3 和图 A4 给出了选择的轴公差带的图示。图 A3 是以基本偏差(a 至 zc)图示的轴公差带,图 A4 是以公差等级(IT5 至 IT11)图示的同一轴公差带。图 A3 和图 A4 只示出本标准中给出的部分公差带。

为了比较起见,图中的公差带是以大于 6~10 mm 的基本尺寸段给出的 es、ei 和 IT 的数值绘制的。对该基本尺寸段表中无基本偏差 t、v 和 y 的公差带,则以大于 24~30 mm 的基本尺寸段给出的数值绘制。



续

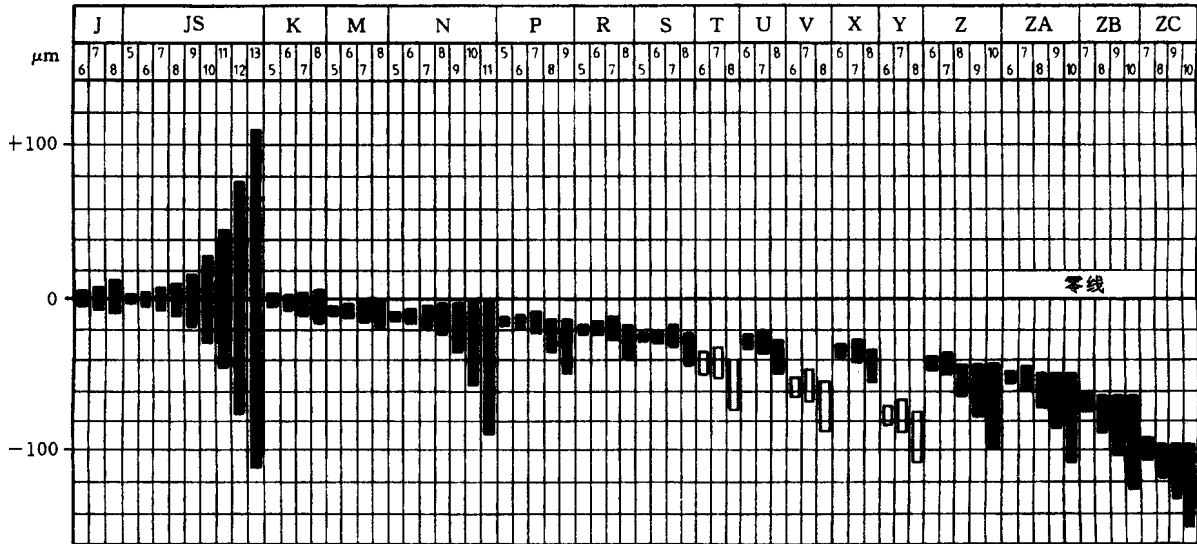
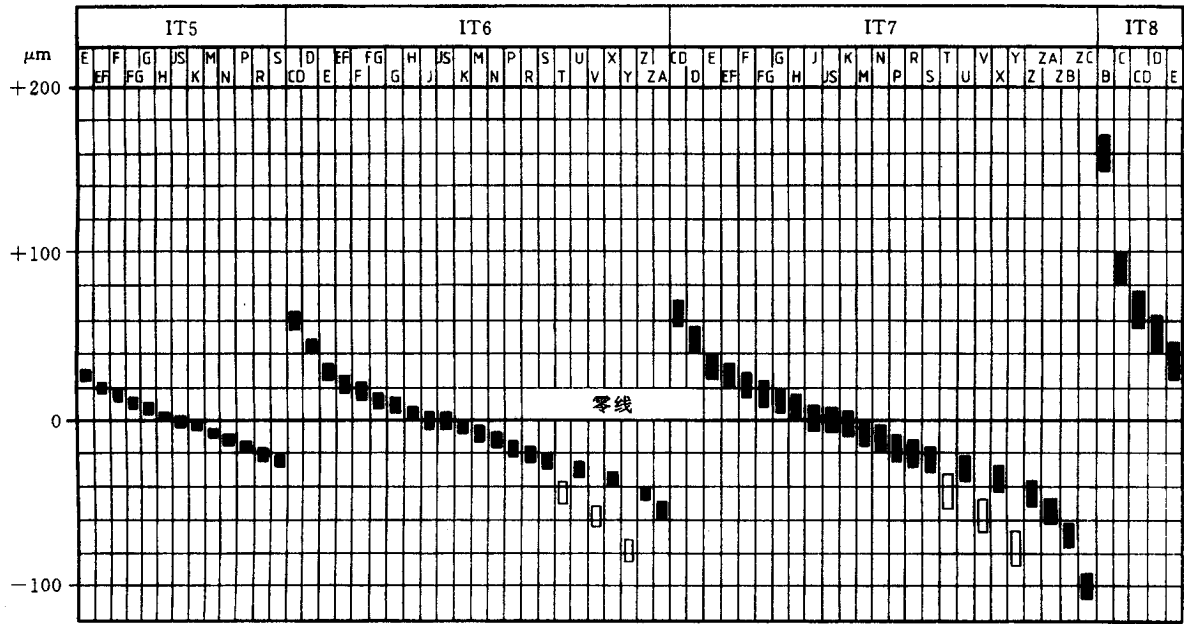


图 A1 以基本偏差图示的孔公差带



续

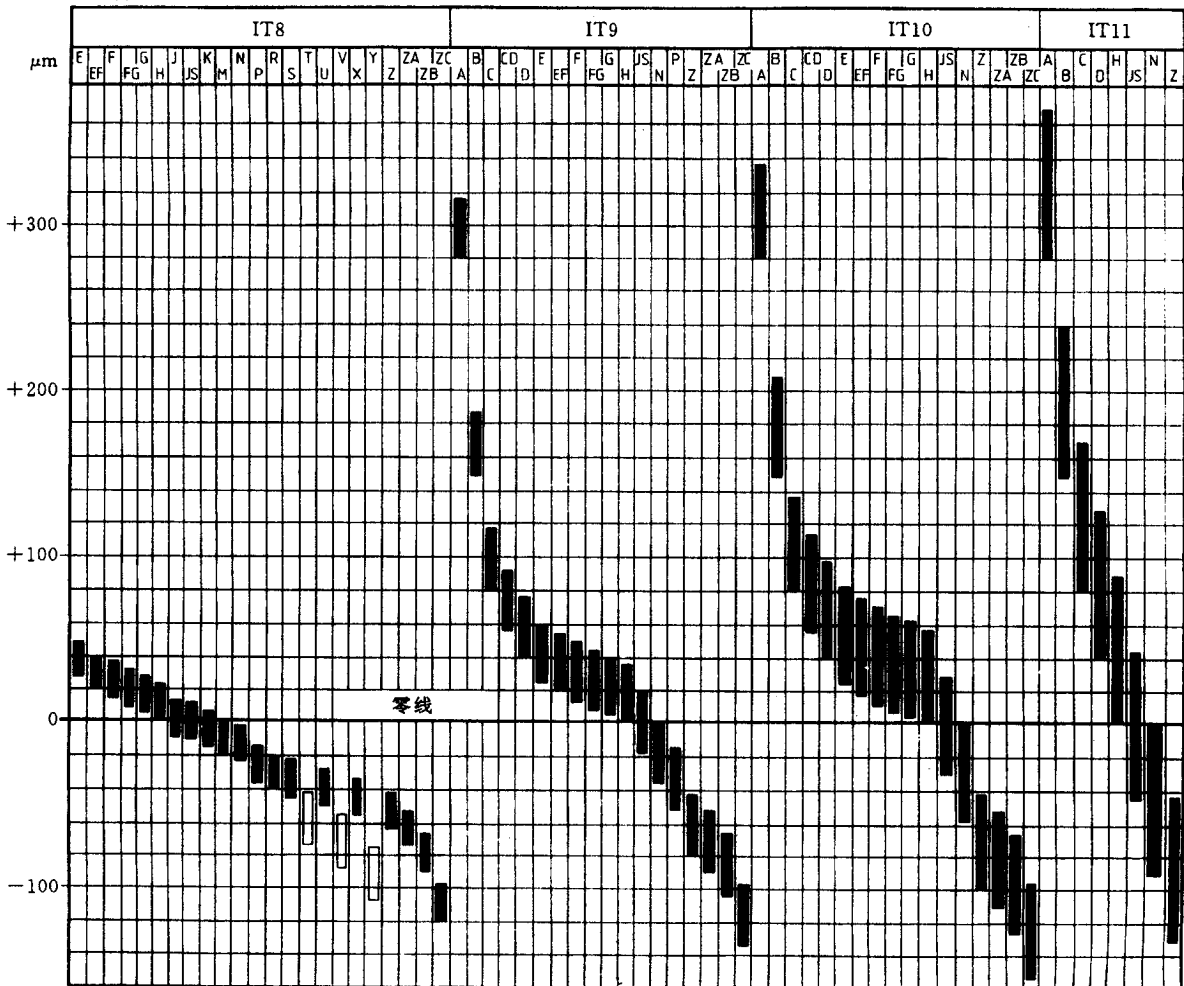


图 A2 以公差等级图示的孔公差带



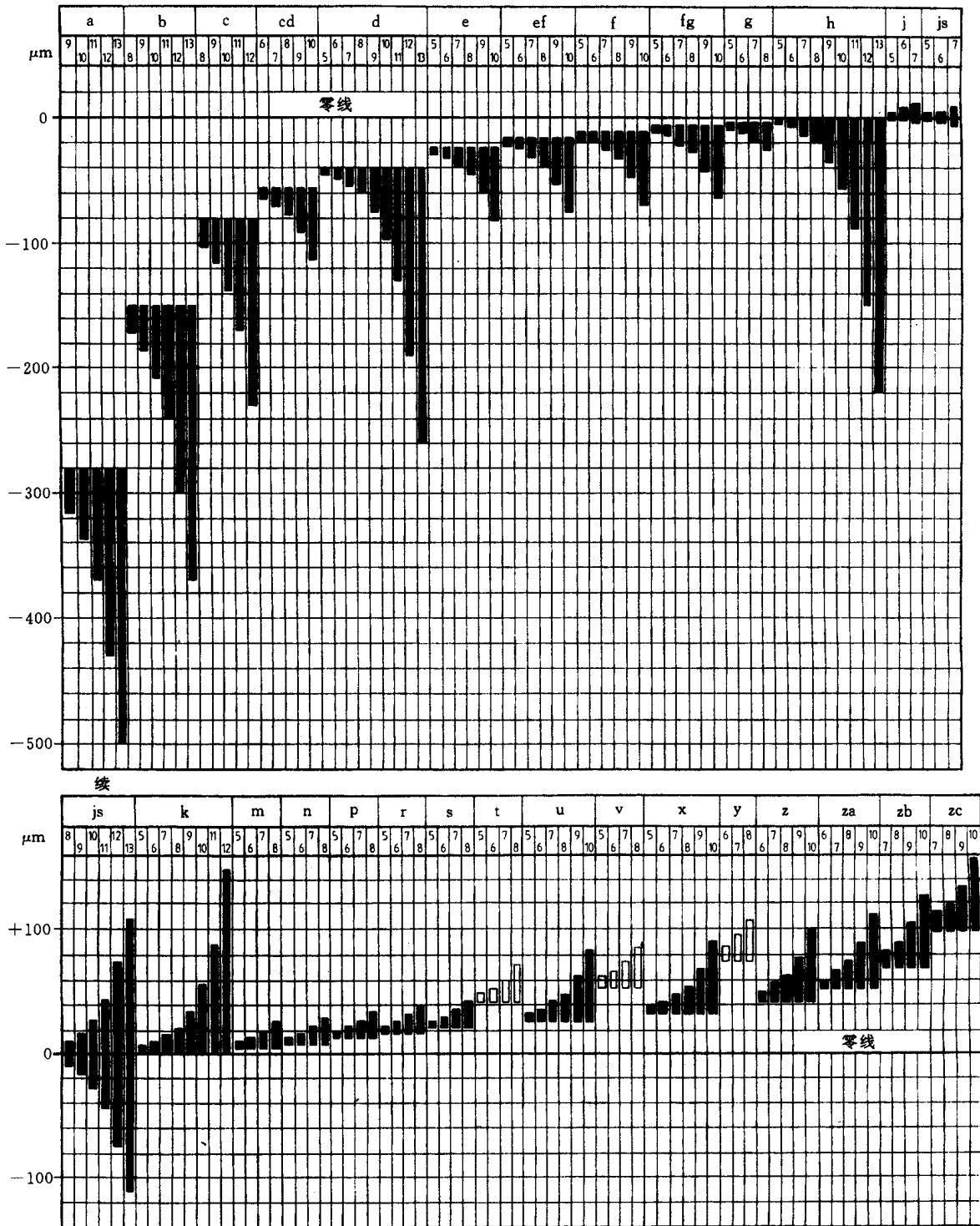


图 A3 以基本偏差图示的轴公差带

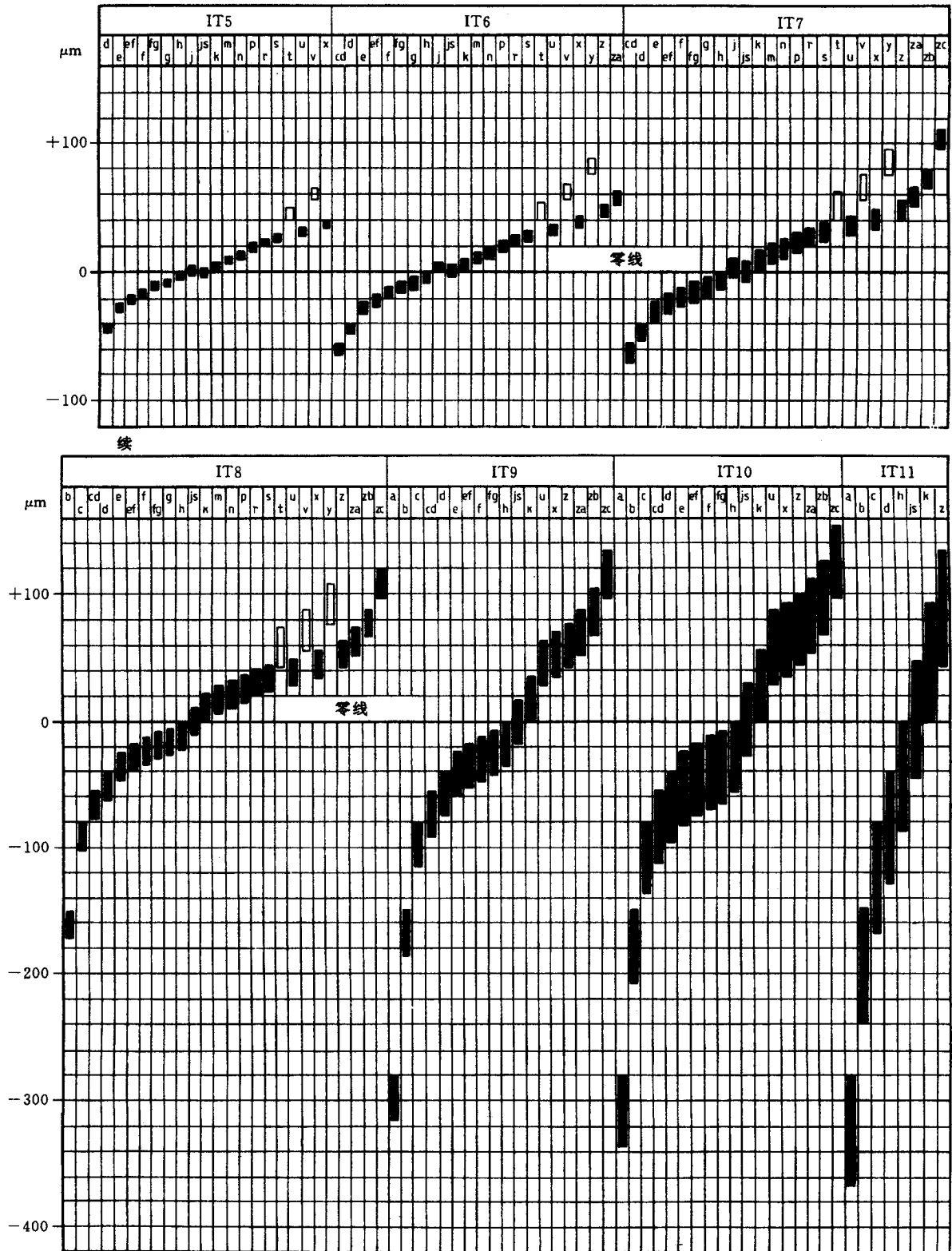


图 A4 以公差等级图示的轴公差带