Deviations of Shafts to be Used in Commonly Used Fits

Over	Up to	b9	c9	d8	d9	e7	e8	e9	f6	f7	f8	g5	g6	h5	h6	h7	h8	h9
	3	140/165	60/85	20/34	20/45	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
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
6	10	150/186	80/116	40/62	40/76	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
10	14	150/193	95/138	50/77	50/93	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
14	18	150/193	95/138	50/77	50/93	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
18	24	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
24	30	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
30	40	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
40	50	180/242	130/192	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
50	65	190/264	140/214	100/146	100/174	60/90	60/106	60/134	30/49	30/60	30/76	10/23	10/29	0/13	0/19	0/30	0/46	0/74
65	80	200/274	150/224	100/146	100/174	60/90	60/106	60/134	30/49	30/60	30/76	10/23	10/29	0/13	0/19	0/30	0/46	0/74
80	100	220/307	170/257	120/174	120/207	72/107	72/126	72/159	36/58	36/71	36/90	12/27	12/34	0/15	0/22	0/35	0/54	0/87
100	120	240/327	180/267	120/174	120/207	72/107	72/126	72/159	36/58	36/71	36/90	12/27	12/34	0/15	0/22	0/35	0/54	0/87
120	140	260/360	200/300	145/208	145/245	85/125	85/148	85/185	43/68	43/83	43/106	14/32	14/39	0/18	0/25	0/40	0/63	0/100
140	160	280/380	210/310	145/208	145/245	85/125	85/148	85/185	43/68	43/83	43/106	14/32	14/39	0/18	0/25	0/40	0/63	0/100
160	180	310/410	230/330	145/208	145/245	85/125	85/148	85/185	43/68	43/83	43/106	14/32	14/39	0/18	0/25	0/40	0/63	0/100
180	200	340/455	240/355	170/242	170/285	100/146	100/172	100/215	50/79	50/96	50/122	15/35	15/44	0/20	0/29	0/46	0/72	0/115
200	225	380/495	260/375	170/242	170/285	100/146	100/172	100/215	50/79	50/96	50/122	15/35	15/44	0/20	0/29	0/46	0/72	0/115
225	250	420/535	280/395	170/242	170/285	100/146	100/172	100/215	50/79	50/96	50/122	15/35	15/44	0/20	0/29	0/46	0/72	0/115
250	280	480/610	300/430	190/271	190/320	110/162	110/191	110/240	56/88	56/108	56/137	17/40	17/49	0/23	0/32	0/52	0/81	0/130
280	315	540/670	330/460	190/271	190/320	110/162	110/191	110/240	56/88	56/108	56/137	17/40	17/49	0/23	0/32	0/52	0/81	0/130
315	355	600/740	360/500	210/299	210/350	125/182	125/214	125/265	62/98	62/119	62/151	18/43	18/54	0/25	0/36	0/57	0/89	0/140
355	400	680/820	400/540	210/299	210/350	125/182	125/214	125/265	62/98	62/119	62/151	18/43	18/54	0/25	0/36	0/57	0/89	0/140
400	450	760/915	440/595	230/327	230/385	135/198	135/232	135/290	68/108	68/131	68/165	20/47	20/60	0/27	0/40	0/63	0/97	0/155
450	500	840/995	480/635	230/327	230/385	135/198	135/232	135/290	68/108	68/131	68/165	20/47	20/60	0/27	0/40	0/63	0/97	0/155

unit μm

From	To	js5	js6	js7	k5	k6	m5	m6	n6	p6	r6	s6	t6	u6	x6
	3	± 2	± 3	± 5	4 / 0	6 / 0	6 / 2	8 / 2	10 / 4	12 / 6	16 / 10	20 / 14		24 / 18	26 / 20
3	6	± 2.5	± 4	± 6	6 / 1	9 / 1	9 / 4	12 / 4	16 / 8	20 / 12	23 / 15	27 / 19		31 / 23	36 / 28
6	10	± 3	± 4.5	± 7	7 / 1	10 / 1	12 / 6	15 / 6	19 / 10	24 / 15	28 / 19	32 / 23		37 / 28	43 / 34
10	14	± 4	± 5.5	± 9	9 / 1	12 / 1	15 / 7	18 / 7	23 / 12	29 / 18	34 / 23	39 / 28		44 / 33	51 / 40
14	18	± 4	± 5.5	± 9	9 / 1	12 / 1	15 / 7	18 / 7	23 / 12	29 / 18	34 / 23	39 / 28		44 / 33	56 / 45
18	24	± 4.5	± 6.5	± 10	11 / 2	15 / 2	17 / 8	21 / 8	28 / 15	35 / 22	41 / 28	48 / 35		54 / 41	67 / 54
24	30	± 4.5	± 6.5	± 10	11 / 2	15 / 2	17 / 8	21 / 8	28 / 15	35 / 22	41 / 28	48 / 35	54 / 41	61 / 48	77 / 64
30	40	± 5.5	± 8	± 12	13 / 2	18 / 2	20 / 9	25 / 9	33 / 17	42 / 26	50 / 34	59 / 43	64 / 48	76 / 60	
40	50	± 5.5	± 8	± 12	13 / 2	18 / 2	20 / 9	25 / 9	33 / 17	42 / 26	50 / 34	59 / 43	70 / 54	86 / 70	
50	65	± 6.5	± 9.5	± 15	15 / 2	21 / 2	24 / 11	30 / 11	39 / 20	51 / 32	60 / 41	72 / 53	85 / 66	106 / 87	
65	80	± 6.5	± 9.5	± 15	15 / 2	21 / 2	24 / 11	30 / 11	39 / 20	51 / 32	62 / 43	78 / 59	94 / 75	121 / 102	
80	100	± 7.5	± 11	± 17	18 / 3	25 / 3	28 / 13	35 / 13	45 / 23	59 / 37	73 / 51	93 / 71	113 / 91	146 / 124	
100	120	± 7.5	± 11	± 17	18 / 3	25 / 3	28 / 13	35 / 13	45 / 23	59 / 37	76 / 54	101 / 79	126 / 104	166 / 144	
120	140	± 9	± 12.5	± 20	21 / 3	28 / 3	33 / 15	40 / 15	52 / 27	68 / 43	88 / 63	117 / 92	147 / 122		
140	160	± 9	± 12.5	± 20	21 / 3	28 / 3	33 / 15	40 / 15	52 / 27	68 / 43	90 / 65	125 / 100	159 / 134		
160	180	± 9	± 12.5	± 20	21 / 3	28 / 3	33 / 15	40 / 15	52 / 27	68 / 43	93 / 68	133 / 108	171 / 146		
180	200	± 10	± 14.5	± 23	24 / 4	33 / 4	37 / 17	46 / 17	60 / 31	79 / 50	106 / 77	151 / 122			
200	225	± 10	± 14.5	± 23	24 / 4	33 / 4	37 / 17	46 / 17	60 / 31	79 / 50	109 / 80	159 / 130			
225	250	± 10	± 14.5	± 23	24 / 4	33 / 4	37 / 17	46 / 17	60 / 31	79 / 50	113 / 84	169 / 140			
250	280	± 11.5	± 16	± 26	27 / 4	36 / 4	43 / 20	52 / 20	66 / 34	88 / 56	126 / 94				
280	315	± 11.5	± 16	± 26	27 / 4	36 / 4	43 / 20	52 / 20	66 / 34	88 / 56	130 / 98				
315	355	± 12.5	± 18	± 28	29 / 4	40 / 4	46 / 21	57 / 21	73 / 37	98 / 62	144 / 108				
355	400	± 12.5	± 18	± 28	29 / 4	40 / 4	46 / 21	57 / 21	73 / 37	98 / 62	150 / 114				
400	450	± 13.5	± 20	± 31	32 / 5	45 / 5	50 / 23	63 / 23	80 / 40	108 / 68	166 / 126				
450	500	± 13.5	± 20	± 31	32 / 5	45 / 5	50 / 23	63 / 23	80 / 40	108 / 68	172 / 132				