



# ISO-Toleranzen für Wellen und Bohrungen

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## Toleranzen für Wellen

Ø von	3	6	10	18	30	40	50	65	80	100	120	140	160	180	200	225	250	280	315	355
bis inklusive	6	10	18	30	40	50	65	80	100	120	140	160	180	200	225	250	280	315	355	400
Toleranz Bezeichnung																				
a12	-270	-280	-290	-300	-	-	-	-	-	-	-	-	-	-660	-740	-820	-920	-	-	-
	-390	-430	-470	-510	310	320	340	360	380	410	460	520	580	-	-	-	-	1050	1200	1350
d6	-30	-40	-50	-65	-80	-100	-120	-145	-170	-190	-210	-246	-282	-318	-354	-390	-426	-462	-498	-534
	-38	-49	-61	-78	-96	-119	-142	-170	-199	-222	-246	-270	-294	-318	-342	-366	-390	-414	-438	-462
e6	-20	-25	-32	-40	-50	-60	-72	-85	-100	-110	-125	-141	-157	-173	-189	-205	-221	-237	-253	-269
	-28	-34	-43	-53	-66	-79	-94	-110	-129	-142	-161	-180	-199	-218	-237	-256	-275	-294	-313	-332
e13	-20	-25	-32	-40	-50	-60	-72	-85	-100	-110	-125	-141	-157	-173	-189	-205	-221	-237	-253	-269
	-200	-245	-302	-370	-44	-520	-612	-715	-820	-920	-1015	-1115	-1215	-1315	-1415	-1515	-1615	-1715	-1815	-1915
f5	-17	-23	-29	-36	-25	-30	-36	-43	-50	-56	-62	-69	-76	-83	-90	-97	-104	-111	-118	-125
	-25	-32	-40	-49	-36	-43	-51	-61	-70	-79	-87	-96	-105	-114	-123	-132	-141	-150	-159	-168
f6	-10	-13	-16	-20	-25	-30	-36	-43	-50	-56	-62	-69	-76	-83	-90	-97	-104	-111	-118	-125
	-18	-22	-27	-33	-41	-49	-58	-68	-79	-88	-98	-108	-118	-128	-138	-148	-158	-168	-178	-188
f7	-10	-13	-16	-20	-25	-30	-36	-43	-50	-56	-62	-69	-76	-83	-90	-97	-104	-111	-118	-125
	-22	-28	-34	-41	-50	-60	-71	-83	-96	-108	-119	-131	-143	-155	-167	-179	-191	-203	-215	-227
g5	-4	-5	-6	-7	-9	-10	-12	-14	-15	-17	-18	-20	-22	-24	-26	-28	-30	-32	-34	-36
	-9	-11	-14	-16	-20	-23	-27	-32	-35	-40	-43	-48	-52	-57	-61	-66	-70	-75	-79	-84
g6	-4	-5	-6	-7	-9	-10	-12	-14	-15	-17	-18	-20	-22	-24	-26	-28	-30	-32	-34	-36
	-12	-14	-17	-20	-25	-29	-34	-39	-44	-49	-54	-59	-64	-69	-74	-79	-84	-89	-94	-99
g7	-4	-5	-6	-7	-9	-10	-12	-14	-15	-17	-18	-20	-22	-24	-26	-28	-30	-32	-34	-36
	-16	-20	-24	-28	-34	-40	-47	-54	-61	-69	-75	-83	-91	-99	-107	-115	-123	-131	-139	-147
h4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-4	-4	-5	-6	-7	-8	-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30	-32	-34	-36
h5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-5	-6	-8	-9	-11	-13	-15	-18	-20	-23	-25	-28	-31	-34	-37	-40	-43	-46	-49	-52
h6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-8	-9	-11	-13	-16	-19	-22	-25	-29	-32	-36	-39	-43	-47	-51	-55	-59	-63	-67	-71
h7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-12	-15	-18	-21	-25	-30	-35	-40	-46	-52	-57	-63	-69	-75	-81	-87	-93	-99	-105	-111
h8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-18	-22	-27	-33	-39	-46	-54	-63	-72	-81	-89	-99	-108	-118	-128	-138	-148	-158	-168	-178
h10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-48	-58	-70	-84	-100	-120	-140	-160	-185	-210	-230	-255	-280	-305	-330	-355	-380	-405	-430	-455
h11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-75	-90	-110	-130	-160	-190	-220	-250	-290	-320	-360	-390	-430	-470	-510	-550	-590	-630	-670	-710
h12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-120	-150	-180	-210	-250	-300	-350	-400	-460	-520	-570	-630	-690	-750	-810	-870	-930	-990	-1050	-1110
j5	3	4	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
	-2	-2	-3	-4	-5	-7	-9	-11	-13	-16	-18	-21	-24	-27	-30	-33	-36	-39	-42	-45
j6	6	7	8	9	11	12	13	14	16	16	18	18	18	18	18	18	18	18	18	18
	-2	-2	-3	-4	-5	-7	-9	-11	-13	-16	-18	-21	-24	-27	-30	-33	-36	-39	-42	-45
j7	8	10	12	13	15	18	20	22	25	26	29	29	29	29	29	29	29	29	29	29
	-4	-5	-6	-8	-10	-12	-15	-18	-21	-26	-28	-33	-38	-43	-48	-53	-58	-63	-68	-73
js5	+2.5	3	4	+4.5	+5.5	+6.5	+7.5	9	10	+11.5	+12.5	+14	+15	+16	+17	+18	+19	+20	+21	+22
	-2.5	-3	-4	-4.5	-5.5	-6.5	-7.5	-9	-10	-11.5	-12.5	-14	-15	-16	-17	-18	-19	-20	-21	-22

js6	4	+4.5	+5.5	+6.5	8	+9.5	11	+12.5	+14.5	16	18								
	-4	-4.5	-5.5	-6.5	-8	-9.5	-11	-12.5	-14.5	-16	-18								
js7	6	+7.5	9	+10.5	+12.5	15	+17.5	20	23	26	+28.5								
	-6	-7.5	-9	-10.5	-12.5	-15	-17.5	-20	-23	-26	-28.5								
k5	6	7	9	11	13	15	18	21	24	27	29								
	1	1	1	2	2	2	3	3	4	4	4								
k6	9	10	12	15	18	21	25	28	33	36	40								
	1	1	1	2	2	2	3	3	4	4	4								
k7	13	16	19	23	27	32	38	43	50	56	61								
	1	1	1	2	2	2	3	3	4	4	4								
m5	9	12	15	17	20	24	28	33	37	43	46								
	4	6	7	8	9	11	13	15	17	20	21								
m6	12	15	18	21	25	30	35	40	46	52	57								
	4	6	7	8	9	11	13	15	17	20	21								
m7	16	21	25	29	34	41	48	55	63	72	78								
	4	6	7	8	9	11	13	15	17	20	21								
n5	13	16	20	24	28	33	38	45	51	57	62								
	8	10	12	15	17	20	23	27	31	34	37								
n6	16	19	23	28	33	39	45	52	60	66	73								
	8	10	12	15	17	20	23	27	31	34	37								
n7	20	25	30	36	42	50	58	67	77	86	94								
	8	10	12	15	17	20	23	27	31	34	37								
p5	17	21	26	31	37	45	52	61	70	79	87								
	12	15	18	22	26	32	37	43	50	56	62								
p6	20	24	29	35	42	51	59	68	79	88	98								
	12	15	18	22	26	32	37	43	50	56	62								
r6	23	28	34	41	50	60	62	73	76	88	90	93	106	109	113	126	130	144	150
	15	19	23	28	34	41	43	51	54	63	65	68	77	80	84	94	98	108	114

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K7	3	5	6	6	7	9	10	12	13	16	17								
	-9	-10	-12	-15	-18	-21	-25	-28	-33	-36	-40								
K8	5	6	8	10	12	14	16	20	22	25	28								
	-13	-16	-19	-23	-27	-32	-38	-43	-50	-56	-61								
M6	-1	-3	-4	-4	-4	-5	-6	-8	-8	-9	-10								
	-9	-12	-15	-17	-20	-24	-28	-33	-37	-41	-46								
M7	0	0	0	0	0	0	0	0	0	0	0								
	-12	-15	-18	-21	-25	-30	-35	-40	-46	-52	-57								
M8	2	1	2	4	5	5	6	8	9	9	11								
	-16	-21	-25	-29	-34	-41	-48	-55	-63	-72	-78								
N6	-5	-7	-9	-11	-12	-14	-16	-20	-22	-25	-26								
	-13	-16	-20	-24	-28	-33	-38	-45	-51	-57	-62								
N7	-4	-4	-5	-7	-8	-9	-10	-12	-14	-14	-16								
	-16	-19	-23	-28	-33	-39	-45	-52	-60	-66	-73								
N8	-2	-3	-3	-3	-3	-4	-4	-4	-5	-5	-5								
	-20	-25	-30	-36	-42	-50	-58	-67	-77	-86	-94								
P6	-9	-12	-15	-18	-21	-26	-30	-36	-41	-47	-51								
	-17	-21	-26	-31	-37	-45	-52	-61	-70	-79	-87								
P7	-8	-9	-11	-14	-17	-21	-24	-28	-33	-36	-41								
	-20	-24	-29	-35	-42	-51	-59	-68	-79	-88	-98								
P8	-12	-15	-18	-22	-26	-32	-37	-43	-50	-56	-62								
	-30	-37	-45	-55	-65	-78	-91	-106	-122	-137	-151								
R6	-12	-16	-20	-24	-29	-35	-37	-44	-47	-56	-58	-61	-68	-71	-75	-85	-89	-97	-103
	-20	-25	-31	-37	-45	-54	-56	-66	-69	-81	-83	-86	-97	-100	-104	-117	-121	-133	-139
R7	-11	-13	-16	-20	-25	-30	-32	-38	-41	-48	-50	-53	-60	-63	-67	-74	-78	-87	-93
	-23	-28	-34	-41	-50	-60	-62	-73	-76	-88	-90	-93	-106	-109	-113	-126	-130	-144	-150

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