

Erich Uhe GmbH
Hoher Holzweg 48 A+B
D-30966 Hemmingen
DUNS-Nr. 318641800

Tel.: +49 (5101) 9284-0
Fax: +49 (5101) 9284-99
E-Mail: info@uhe.de
http://www.uhe.de

Metall- u. Kunststoffverarbeitung; Einzel- u.
Serienfertigung; Baugruppen u. Montage
CNC-stanzen, -lasern 4KW, -biegen 3m,
-punkten, -5-Achs-fräsen, -drehen, -messen

Unser Maßstab ist Präzision



ISO-Toleranzen für Wellen und Bohrungen

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	-310	-320	-340	-360	-380	-410	-460	-520	-580	-660	-740	-820	-920	-1050	-1200	-1350
	-390	-430	-470	-510	-560	-570	-640	-660	-730	-760	-860	-920	-980	-1120	-1200	-1280	-1440	-1570	-1770	-1920
d6	-30	-40	-50	-65	-80	-80	-100	-100	-120	-120	-145	-145	-170	-170	-199	-199	-222	-222	-246	-246
	-38	-49	-61	-78	-96	-96	-119	-119	-142	-142	-170	-170	-199	-199	-222	-222	-246	-246	-270	-270
e6	-20	-25	-32	-40	-50	-50	-60	-60	-72	-72	-85	-85	-100	-100	-110	-110	-129	-129	-142	-142
	-28	-34	-43	-53	-66	-66	-79	-79	-94	-94	-110	-110	-129	-129	-142	-142	-161	-161	-174	-174
e13	-20	-25	-32	-40	-50	-50	-60	-60	-72	-72	-85	-85	-100	-100	-110	-110	-129	-129	-142	-142
	-200	-245	-302	-370	-44	-44	-520	-520	-612	-612	-715	-715	-820	-820	-920	-920	-1015	-1015	-1115	-1115
f5	-17	-23	-29	-36	-25	-25	-30	-30	-36	-36	-43	-43	-50	-50	-56	-56	-62	-62	-68	-68
	-25	-32	-40	-49	-36	-36	-43	-43	-51	-51	-61	-61	-70	-70	-79	-79	-87	-87	-95	-95
f6	-10	-13	-16	-20	-25	-25	-30	-30	-36	-36	-43	-43	-50	-50	-56	-56	-62	-62	-68	-68
	-18	-22	-27	-33	-41	-41	-49	-49	-58	-58	-68	-68	-79	-79	-88	-88	-98	-98	-108	-108
f7	-10	-13	-16	-20	-25	-25	-30	-30	-36	-36	-43	-43	-50	-50	-56	-56	-62	-62	-68	-68
	-22	-28	-34	-41	-50	-50	-60	-60	-71	-71	-83	-83	-96	-96	-108	-108	-119	-119	-131	-131
g5	-4	-5	-6	-7	-9	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20
	-9	-11	-14	-16	-20	-20	-23	-23	-27	-27	-32	-32	-35	-35	-40	-40	-43	-43	-48	-48
g6	-4	-5	-6	-7	-9	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20
	-12	-14	-17	-20	-25	-25	-29	-29	-34	-34	-39	-39	-44	-44	-49	-49	-54	-54	-60	-60
g7	-4	-5	-6	-7	-9	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20
	-16	-20	-24	-28	-34	-34	-40	-40	-47	-47	-54	-54	-61	-61	-69	-69	-75	-75	-83	-83
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	-7	-8	-8	-10	-10	-12	-12	-14	-14	-16	-16	-18	-18	-20	-20
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	-11	-13	-13	-15	-15	-18	-18	-20	-20	-23	-23	-25	-25	-28	-28
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	-16	-19	-19	-22	-22	-25	-25	-29	-29	-32	-32	-36	-36	-40	-40
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	-25	-30	-30	-35	-35	-40	-40	-46	-46	-52	-52	-57	-57	-64	-64
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	-39	-46	-46	-54	-54	-63	-63	-72	-72	-81	-81	-89	-89	-100	-100
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	-100	-120	-120	-140	-140	-160	-160	-185	-185	-210	-210	-230	-230	-260	-260
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	-160	-190	-190	-220	-220	-250	-250	-290	-290	-320	-320	-360	-360	-400	-400
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	-250	-300	-300	-350	-350	-400	-400	-460	-460	-520	-520	-570	-570	-640	-640
j5	3	4	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
	-2	-2	-3	-4	-5	-5	-7	-7	-9	-9	-11	-11	-13	-13	-16	-16	-18	-18	-21	-21
j6	6	7	8	9	11	11	12	12	13	13	14	14	16	16	16	16	18	18	18	18
	-2	-2	-3	-4	-5	-5	-7	-7	-9	-9	-11	-11	-13	-13	-16	-16	-18	-18	-21	-21
j7	8	10	12	13	15	15	18	18	20	20	22	22	25	25	26	26	29	29	29	29
	-4	-5	-6	-8	-10	-10	-12	-12	-15	-15	-18	-18	-21	-21	-26	-26	-28	-28	-33	-33
js5	+2.5	3	4	+4.5	+5.5	+5.5	+6.5	+6.5	+7.5	+7.5	9	9	10	10	+11.5	+11.5	+12.5	+12.5	+14.5	+14.5
	-2.5	-3	-4	-4.5	-5.5	-5.5	-6.5	-6.5	-7.5	-7.5	-9	-9	-10	-10	-11.5	-11.5	-12.5	-12.5	-14.5	-14.5
js6	4	+4.5	+5.5	+6.5	8	8	+9.5	+9.5	11	11	+12.5	+12.5	+14.5	+14.5	16	16	18	18	21	21
	-4	-4.5	-5.5	-6.5	-8	-8	-9.5	-9.5	-11	-11	-12.5	-12.5	-14.5	-14.5	-16	-16	-18	-18	-21	-21
js7	6	+7.5	9	+10.5	+12.5	+12.5	15	15	+17.5	+17.5	20	20	23	23	26	26	+28.5	+28.5	+33	+33
	-6	-7.5	-9	-10.5	-12.5	-12.5	-15	-15	-17.5	-17.5	-20	-20	-23	-23	-26	-26	-28.5	-28.5	-33	-33
k5	6	7	9	11	13	13	15	15	18	18	21	21	24	24	27	27	29	29	33	33
	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4
k6	9	10	12	15	18	18	21	21	25	25	28	28	33	33	36	36	40	40	45	45
	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4
k7	13	16	19	23	27	27	32	32	38	38	43	43	50	50	56	56	61	61	68	68
	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4
m5	9	12	15	17	20	20	24	24	28	28	33	33	37	37	43	43	46	46	53	53
	4	6	7	8	9	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24
m6	12	15	18	21	25	25	30	30	35	35	40	40	46	46	52	52	57	57	64	64
	4	6	7	8	9	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24
m7	16	21	25	29	34	34	41	41	48	48	55	55	63	63	72	72	78	78	87	87
	4	6	7	8	9	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24
n5	13	16	20	24	28	28	33	33	38	38	45	45	51	51	57	57	62	62	70	70
	8	10	12	15	17	17	20	20	23	23	27	27	31	31	34	34	37	37	43	43
n6	16	19	23	28	33	33	39	39	45	45	52	52	60	60	66	66	73	73	81	81
	8	10	12	15	17	17	20	20	23	23	27	27	31	31	34	34	37	37	43	43
n7	20	25	30	36	42	42	50	50	58	58	67	67	77	77	86	86	94	94	104	104
	8	10	12	15	17	17	20	20	23	23	27	27	31	31	34	34	37	37	43	43
p5	17	21	26	31	37	37	45	45	52	52	61	61	70	70	79	79	87	87	97	97
	12	15	18	22	26	26	32	32	37	37	43	43	50	50	56	56	62	62	70	70
p6	20	24	29	35	42	42	51	51	59	59	68	68	79	79	88	88	98	98	109	109
	12	15	18	22	26	26	32	32	37	37	43	43	50	50	56	56	62	62	70	70
r6	23	28	34	41	50	50	60	62	73	76	88	90	93	106	109	113	126	130	144	150
	15	19	23	28	34	34	41	43	51	54	63	65	68	77	80	84	94	98	108	114

Erich Uhe GmbH
 Hoher Holzweg 48 A+B
 D-30966 Hemmingen
 DUNS-Nr. 318641800

Tel.: +49 (5101) 9284-0
 Fax: +49 (5101) 9284-99
 E-Mail: info@uhe.de
 http://www.uhe.de

Metall- u. Kunststoffverarbeitung; Einzel- u.
 Serienfertigung; Baugruppen u. Montage
 CNC-stanzen, -lasern 4KW, -biegen 3m,
 -punkten, -5-Achs-fräsen, -drehen, -messen



ISO-Toleranzen für Wellen und Bohrungen

Toleranzen für Bohrungen																				
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																				
E6	28	34	43	53	66	79	94	110	129	142	161									
	20	25	32	40	50	60	72	85	100	110	125									
E7	32	40	50	61	75	90	107	125	146	162	185									
	20	25	32	40	50	60	72	85	100	110	125									
E11	95	115	142	170	210	250	292	335	390	430	485									
	20	25	32	40	50	60	72	85	100	110	125									
E12	140	175	212	250	300	360	422	485	560	630	695									
	20	25	32	40	50	60	72	85	100	110	125									
E13	200	245	302	370	440	520	612	715	820	920	1015									
	20	25	32	40	50	60	72	85	100	110	125									
F6	18	22	27	33	41	49	58	68	79	88	98									
	10	13	16	20	2	30	36	43	50	56	62									
F7	22	28	34	41	50	60	71	83	96	108	119									
	10	13	16	20	25	30	36	43	50	56	62									
F8	28	35	43	53	64	76	90	106	122	137	151									
	10	13	16	20	25	30	36	43	50	56	62									
G6	12	14	17	20	25	29	34	39	44	49	54									
	4	5	6	7	9	10	12	14	15	17	18									
G7	16	20	24	28	34	40	47	54	61	69	75									
	4	5	6	7	9	10	12	14	15	17	18									
G8	22	27	33	40	48	56	66	77	87	98	107									
	4	5	6	7	9	10	12	14	15	17	18									
H6	8	9	11	13	16	19	22	25	29	32	36									
	0	0	0	0	0	0	0	0	0	0	0									
H7	12	15	18	21	25	30	35	40	46	52	57									
	0	0	0	0	0	0	0	0	0	0	0									
H8	18	22	27	33	39	46	54	63	72	81	89									
	0	0	0	0	0	0	0	0	0	0	0									
H9	30	36	43	52	62	74	87	100	115	130	140									
	0	0	0	0	0	0	0	0	0	0	0									
H10	48	58	70	84	100	120	140	160	185	210	230									
	0	0	0	0	0	0	0	0	0	0	0									
H11	75	90	110	130	160	190	220	250	290	320	360									
	0	0	0	0	0	0	0	0	0	0	0									
J6	5	5	6	8	10	13	16	18	22	25	29									
	-3	-4	-5	-5	-6	-6	-6	-7	-7	-7	-7									
J7	6	8	10	12	14	18	22	26	30	36	39									
	-6	-7	-8	-9	-11	-12	-13	-14	-16	-16	-18									
J8	10	12	15	20	24	28	34	41	47	55	60									
	-8	-10	-12	-13	-15	-18	-20	-22	-25	-26	-29									
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									
JS8	9	11	+13.5	+16.5	+19.5	23	27	+31.5	36	+40.5	+44.5									
	-9	-11	-13.5	-16.5	-19.5	-23	-27	-31.5	-36	-40.5	-44.5									
K6	2	2	2	2	3	4	4	4	5	5	7									
	-6	-7	-9	-11	-13	-15	-18	-21	-24	-27	-29									
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	-6	-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	