Table 90 — Geometry external spline, $\alpha = 37{,}5°$, $m = 3$, fillet root, $S_{v\,max} = 4{,}712$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	18,00	14,2804	20,70	15,32	13,58	4,670	4,644	4,606	4,543
7	21,00	16,6604	23,70	18,21	16,58	4,669	4,643	4,605	4,540
8	24,00	19,0405	26,70	21,14	19,57	4,668	4,642	4,603	4,538
9	27,00	21,4205	29,70	24,09	22,57	4,668	4,641	4,602	4,535
10	30,00	23,8006	32,70	27,04	25,57	4,667	4,641	4,600	4,533
11	33,00	26,1807	35,70	30,01	28,56	4,667	4,640	4,599	4,531
12	36,00	28,5607	38,70	32,98	31,56	4,666	4,639	4,598	4,530
13	39,00	30,9408	41,70	35,96	34,56	4,666	4,638	4,597	4,528
14	42,00	33,3208	44,70	38,94	37,56	4,666	4,638	4,596	4,526
15	45,00	35,7009	47,70	41,92	40,56	4,665	4,637	4,595	4,525
16	48,00	38,0810	50,70	44,91	43,55	4,665	4,636	4,594	4,523
17	51,00	40,4610	53,70	47,89	46,55	4,664	4,636	4,593	4,522
18	54,00	42,8411	56,70	50,88	49,55	4,664	4,635	4,592	4,520
19	57,00	45,2211	59,70	53,87	52,55	4,664	4,635	4,591	4,519
20	60,00	47,6012	62,70	56,86	55,55	4,663	4,634	4,591	4,518
21	63,00	49,9813	65,70	59,85	58,55	4,663	4,634	4,590	4,516
22	66,00	52,3613	68,70	62,85	61,54	4,663	4,633	4,589	4,515
23	69,00	54,7414	71,70	65,84	64,54	4,662	4,633	4,588	4,514
24	72,00	57,1214	74,70	68,83	67,54	4,662	4,632	4,587	4,513
25	75,00	59,5015	77,70	71,83	70,54	4,662	4,632	4,587	4,512
26	78,00	61,8816	80,70	74,82	73,54	4,662	4,631	4,586	4,511
27	81,00	64,2616	83,70	77,82	76,54	4,661	4,631	4,585	4,509
28	84,00	66,6417	86,70	80,81	79,53	4,661	4,631	4,585	4,508
29	87,00	69,0217	89,70	83,81	82,53	4,661	4,630	4,584	4,507
30	90,00	71,4018	92,70	86,81	85,53	4,661	4,630	4,583	4,506
31	93,00	73,7819	95,70	89,80	88,53	4,660	4,629	4,583	4,505
32	96,00	76,1619	98,70	92,80	91,53	4,660	4,629	4,582	4,504
33	99,00	78,5420	101,70	95,80	94,53	4,660	4,629	4,582	4,503
34	102,00	80,9220	104,70	98,79	97,53	4,660	4,628	4,581	4,502
35	105,00	83,3021	107,70	101,79	100,53	4,659	4,628	4,580	4,501
36	108,00	85,6822	110,70	104,79	103,52	4,659	4,627	4,580	4,500
37	111,00	88,0622	113,70	107,79	106,52	4,659	4,627	4,579	4,500
38	114,00	90,4423	116,70	110,78	109,52	4,659	4,627	4,579	4,499
39	117,00	92,8223	119,70	113,78	112,52	4,658	4,626	4,578	4,498
40	120,00	95,2024	122,70	116,78	115,52	4,658	4,626	4,578	4,497
41	123,00	97,5825	125,70	119,78	118,52	4,658	4,626	4,577	4,496
42	126,00	99,9625	128,70	122,78	121,52	4,658	4,625	4,577	4,495
43	129,00	102,3426	131,70	125,77	124,52	4,658	4,625	4,576	4,494
44	132,00	104,7226	134,70	128,77	127,52	4,657	4,625	4,576	4,494
45	135,00	107,1027	137,70	131,77	130,51	4,657	4,624	4,575	4,493
46	138,00	109,4828	140,70	134,77	133,51	4,657	4,624	4,575	4,492
47	141,00	111,8628	143,70	137,77	136,51	4,657	4,624	4,574	4,491
48	144,00	114,2429	146,70	140,77	139,51	4,657	4,623	4,574	4,490
49	147,00	116,6229	149,70	143,76	142,51	4,656	4,623	4,573	4,490
50	150,00	119,0030	152,70	146,76	145,51	4,656	4,623	4,573	4,489
51	153,00	121,3831	155,70	149,76	148,51	4,656	4,622	4,572	4,488
52	156,00	123,7631	158,70	152,76	151,51	4,656	4,622	4,572	4,487
53	159,00	126,1432	161,70	155,76	154,51	4,656	4,622	4,571	4,487
54	162,00	128,5232	164,70	158,76	157,51	4,655	4,622	4,571	4,486
55	165,00	130,9033	167,70	161,76	160,50	4,655	4,621	4,570	4,485
56	168,00	133,2834	170,70	164,76	163,50	4,655	4,621	4,570	4,484
57	171,00	135,6634	173,70	167,76	166,50	4,655	4,621	4,569	4,484
58	174,00	138,0435	176,70	170,75	169,50	4,655	4,620	4,569	4,483
59	177,00	140,4235	179,70	173,75	172,50	4,655	4,620	4,568	4,482
60	180,00	142,8036	182,70	176,75	175,50	4,654	4,620	4,568	4,482
61	183,00	145,1837	185,70	179,75	178,50	4,654	4,620	4,568	4,481
62	186,00	147,5637	188,70	182,75	181,50	4,654	4,619	4,567	4,480
63	189,00	149,9438	191,70	185,75	184,50	4,654	4,619	4,567	4,480
64	192,00	152,3238	194,70	188,75	187,50	4,654	4,619	4,566	4,479
65	195,00	154,7039	197,70	191,75	190,50	4,654	4,619	4,566	4,478
66	198,00	157,0840	200,70	194,75	193,49	4,653	4,618	4,566	4,478
67	201,00	159,4640	203,70	197,75	196,49	4,653	4,618	4,565	4,477
68	204,00	161,8441	206,70	200,75	199,49	4,653	4,618	4,565	4,476
69	207,00	164,2241	209,70	203,75	202,49	4,653	4,618	4,564	4,476
70	210,00	166,6042	212,70	206,74	205,49	4,653	4,617	4,564	4,475
71	213,00	168,9843	215,70	209,74	208,49	4,653	4,617	4,564	4,475
72	216,00	171,3643	218,70	212,74	211,49	4,652	4,617	4,563	4,474
73	219,00	173,7444	221,70	215,74	214,49	4,652	4,617	4,563	4,473
74	222,00	176,1244	224,70	218,74	217,49	4,652	4,616	4,562	4,473
75	225,00	178,5045	227,70	221,74	220,49	4,652	4,616	4,562	4,472
76	228,00	180,8846	230,70	224,74	223,49	4,652	4,616	4,562	4,471
77	231,00	183,2646	233,70	227,74	226,49	4,652	4,616	4,561	4,471
78	234,00	185,6447	236,70	230,74	229,48	4,652	4,615	4,561	4,470
79	237,00	188,0247	239,70	233,74	232,48	4,651	4,615	4,561	4,470
80	240,00	190,4048	242,70	236,74	235,48	4,651	4,615	4,560	4,469
81	243,00	192,7849	245,70	239,74	238,48	4,651	4,615	4,560	4,468
82	246,00	195,1649	248,70	242,74	241,48	4,651	4,614	4,559	4,468
83	249,00	197,5450	251,70	245,74	244,48	4,651	4,614	4,559	4,467
84	252,00	199,9250	254,70	248,74	247,48	4,651	4,614	4,559	4,467
85	255,00	202,3051	257,70	251,74	250,48	4,651	4,614	4,558	4,466
86	258,00	204,6852	260,70	254,74	253,48	4,650	4,613	4,558	4,466
87	261,00	207,0652	263,70	257,74	256,48	4,650	4,613	4,558	4,465
88	264,00	209,4453	266,70	260,74	259,48	4,650	4,613	4,557	4,465
89	267,00	211,8253	269,70	263,74	262,48	4,650	4,613	4,557	4,464
90	270,00	214,2054	272,70	266,73	265,48	4,650	4,613	4,557	4,463
91	273,00	216,5855	275,70	269,73	268,48	4,650	4,612	4,556	4,463
92	276,00	218,9655	278,70	272,73	271,47	4,650	4,612	4,556	4,462
93	279,00	221,3456	281,70	275,73	274,47	4,649	4,612	4,556	4,462
94	282,00	223,7256	284,70	278,73	277,47	4,649	4,612	4,555	4,461
95	285,00	226,1057	287,70	281,73	280,47	4,649	4,611	4,555	4,461
96	288,00	228,4858	290,70	284,73	283,47	4,649	4,611	4,555	4,460
97	291,00	230,8658	293,70	287,73	286,47	4,649	4,611	4,554	4,460
98	294,00	233,2459	296,70	290,73	289,47	4,649	4,611	4,554	4,459
99	297,00	235,6259	299,70	293,73	292,47	4,649	4,611	4,554	4,459
100	300,00	238,0060	302,70	296,73	295,47	4,649	4,610	4,553	4,458

Table 91 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 3$, $E_{v\,min} = 4{,}712$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	5,30	9,379	9,467	9,403	9,543	9,438	9,650	9,491	9,811	2,426
7	5,30	12,210	12,266	12,226	12,318	12,248	12,394	12,283	12,518	1,882
8	5,30	15,777	15,827	15,791	15,875	15,812	15,946	15,844	16,061	1,750
9	5,30	18,480	18,526	18,494	18,571	18,513	18,637	18,543	18,745	1,628
10	5,60	20,948	20,997	20,963	21,044	20,983	21,115	21,016	21,231	1,718
11	5,60	23,708	23,754	23,722	23,799	23,742	23,866	23,773	23,977	1,629
12	5,60	27,055	27,100	27,069	27,144	27,088	27,210	27,119	27,320	1,595
13	5,60	29,830	29,873	29,843	29,916	29,862	29,981	29,893	30,088	1,547
14	5,60	33,118	33,160	33,131	33,204	33,151	33,268	33,181	33,375	1,529
15	5,60	35,912	35,954	35,925	35,996	35,945	36,060	35,975	36,165	1,498
16	5,60	39,160	39,201	39,173	39,244	39,193	39,307	39,223	39,413	1,488
17	5,60	41,972	42,013	41,986	42,055	42,005	42,118	42,036	42,223	1,466
18	5,60	45,190	45,230	45,204	45,273	45,223	45,336	45,254	45,441	1,459
19	5,60	48,018	48,058	48,032	48,100	48,052	48,163	48,083	48,268	1,443
20	6,00	50,068	50,109	50,083	50,153	50,103	50,218	50,135	50,327	1,484
21	6,00	52,919	52,959	52,933	53,002	52,953	53,067	52,985	53,175	1,468
22	6,00	56,097	56,138	56,112	56,181	56,132	56,246	56,165	56,354	1,461
23	6,00	58,958	58,997	58,972	59,041	58,993	59,106	59,025	59,213	1,448
24	6,00	62,120	62,160	62,135	62,203	62,156	62,268	62,189	62,376	1,443
25	6,00	64,990	65,029	65,005	65,073	65,026	65,137	65,058	65,245	1,433
26	6,00	68,139	68,178	68,154	68,222	68,175	68,287	68,208	68,395	1,429
27	6,00	71,017	71,056	71,032	71,099	71,053	71,164	71,086	71,272	1,421
28	6,00	74,155	74,194	74,170	74,237	74,192	74,302	74,225	74,411	1,418
29	6,00	77,040	77,078	77,055	77,122	77,077	77,187	77,110	77,296	1,411
30	6,00	80,169	80,207	80,184	80,250	80,206	80,316	80,239	80,425	1,408
31	6,00	83,060	83,098	83,075	83,142	83,097	83,207	83,131	83,316	1,402
32	6,00	86,180	86,218	86,196	86,262	86,218	86,327	86,252	86,437	1,400
33	6,00	89,077	89,115	89,093	89,159	89,115	89,225	89,150	89,334	1,395
34	6,00	92,190	92,228	92,206	92,272	92,228	92,338	92,263	92,447	1,393
35	6,00	95,093	95,130	95,109	95,174	95,131	95,240	95,166	95,350	1,389
36	6,00	98,199	98,236	98,215	98,280	98,238	98,347	98,273	98,457	1,387
37	6,00	101,106	101,144	101,122	101,188	101,145	101,254	101,181	101,364	1,383
38	6,00	104,207	104,244	104,223	104,288	104,246	104,355	104,282	104,465	1,382
39	6,00	107,119	107,155	107,135	107,200	107,158	107,267	107,194	107,377	1,378
40	6,00	110,214	110,251	110,230	110,295	110,254	110,362	110,290	110,473	1,377
41	6,00	113,130	113,166	113,146	113,211	113,170	113,278	113,206	113,389	1,374
42	6,00	116,220	116,257	116,237	116,302	116,261	116,369	116,297	116,480	1,373
43	6,00	119,140	119,176	119,156	119,221	119,180	119,288	119,217	119,400	1,370
44	6,00	122,226	122,262	122,243	122,307	122,267	122,375	122,304	122,487	1,369
45	6,00	125,149	125,185	125,166	125,230	125,190	125,298	125,227	125,410	1,367
46	6,00	128,231	128,267	128,248	128,313	128,273	128,380	128,310	128,493	1,366
47	6,00	131,157	131,193	131,174	131,238	131,199	131,306	131,236	131,419	1,364
48	6,00	134,236	134,272	134,253	134,317	134,278	134,385	134,316	134,499	1,363
49	6,00	137,165	137,201	137,182	137,246	137,207	137,314	137,245	137,428	1,361
50	6,00	140,240	140,276	140,258	140,322	140,283	140,390	140,321	140,504	1,360
51	6,00	143,172	143,207	143,189	143,253	143,214	143,322	143,253	143,436	1,358
52	6,00	146,245	146,280	146,262	146,326	146,288	146,395	146,326	146,509	1,358
53	6,00	149,178	149,214	149,196	149,260	149,222	149,329	149,260	149,443	1,356
54	6,00	152,248	152,284	152,266	152,330	152,292	152,399	152,331	152,514	1,355
55	6,00	155,184	155,220	155,203	155,266	155,228	155,335	155,268	155,450	1,354
56	6,00	158,252	158,287	158,270	158,333	158,296	158,403	158,336	158,518	1,353
57	6,00	161,190	161,225	161,208	161,272	161,234	161,341	161,274	161,457	1,352
58	6,00	164,255	164,290	164,274	164,337	164,300	164,407	164,340	164,523	1,351
59	6,00	167,195	167,230	167,214	167,277	167,240	167,347	167,280	167,463	1,350
60	6,00	170,258	170,293	170,277	170,340	170,303	170,410	170,344	170,527	1,350
61	6,00	173,200	173,235	173,219	173,282	173,246	173,352	173,286	173,469	1,348
62	6,00	176,261	176,296	176,280	176,343	176,307	176,413	176,348	176,531	1,348
63	6,00	179,205	179,240	179,224	179,287	179,251	179,357	179,292	179,475	1,347
64	6,00	182,264	182,299	182,283	182,346	182,310	182,416	182,351	182,534	1,346
65	6,00	185,210	185,244	185,229	185,291	185,256	185,362	185,297	185,480	1,345
66	6,00	188,267	188,301	188,286	188,348	188,313	188,419	188,355	188,538	1,345
67	6,00	191,214	191,248	191,233	191,296	191,261	191,367	191,302	191,485	1,344
68	6,00	194,269	194,303	194,289	194,351	194,316	194,422	194,358	194,541	1,344
69	6,00	197,218	197,252	197,237	197,300	197,265	197,371	197,307	197,490	1,343
70	6,00	200,272	200,306	200,291	200,353	200,319	200,425	200,362	200,544	1,342
71	6,00	203,221	203,255	203,241	203,303	203,269	203,375	203,312	203,495	1,341
72	6,00	206,274	206,308	206,294	206,356	206,322	206,428	206,365	206,547	1,341
73	6,00	209,225	209,259	209,245	209,307	209,273	209,379	209,316	209,499	1,340
74	6,00	212,276	212,310	212,296	212,358	212,324	212,430	212,368	212,550	1,340
75	6,00	215,228	215,262	215,249	215,310	215,277	215,383	215,321	215,503	1,339
76	6,00	218,278	218,312	218,298	218,360	218,327	218,433	218,371	218,553	1,339
77	6,00	221,232	221,265	221,252	221,314	221,281	221,386	221,325	221,507	1,338
78	6,00	224,280	224,313	224,300	224,362	224,329	224,435	224,373	224,556	1,338
79	6,00	227,235	227,268	227,255	227,317	227,284	227,390	227,329	227,511	1,337
80	6,00	230,282	230,315	230,302	230,364	230,332	230,437	230,376	230,559	1,337
81	6,00	233,238	233,271	233,258	233,320	233,288	233,393	233,332	233,515	1,336
82	6,00	236,283	236,317	236,304	236,366	236,334	236,439	236,379	236,562	1,336
83	6,00	239,240	239,274	239,261	239,323	239,291	239,396	239,336	239,519	1,335
84	6,00	242,285	242,318	242,306	242,368	242,336	242,441	242,381	242,564	1,335
85	6,00	245,243	245,276	245,264	245,326	245,294	245,399	245,340	245,522	1,335
86	6,00	248,287	248,320	248,308	248,369	248,338	248,443	248,384	248,567	1,334
87	6,00	251,246	251,279	251,267	251,328	251,297	251,402	251,343	251,526	1,334
88	6,00	254,288	254,321	254,310	254,371	254,340	254,445	254,386	254,569	1,334
89	6,00	257,248	257,281	257,270	257,331	257,300	257,405	257,346	257,529	1,333
90	6,00	260,290	260,323	260,312	260,373	260,342	260,447	260,389	260,571	1,333
91	6,00	263,251	263,283	263,272	263,333	263,303	263,408	263,350	263,532	1,332
92	6,00	266,291	266,324	266,313	266,374	266,344	266,449	266,391	266,574	1,332
93	6,00	269,253	269,286	269,275	269,336	269,306	269,411	269,353	269,536	1,332
94	6,00	272,293	272,325	272,315	272,376	272,346	272,451	272,393	272,576	1,331
95	6,00	275,255	275,288	275,277	275,338	275,308	275,413	275,356	275,539	1,331
96	6,00	278,294	278,327	278,316	278,377	278,348	278,453	278,395	278,578	1,331
97	6,00	281,257	281,290	281,280	281,340	281,311	281,416	281,359	281,542	1,330
98	6,00	284,296	284,328	284,318	284,378	284,349	284,454	284,397	284,580	1,330
99	6,00	287,259	287,292	287,282	287,342	287,313	287,418	287,362	287,545	1,330
100	6,00	290,297	290,329	290,319	290,380	290,351	290,456	290,400	290,583	1,330

Table 92 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 3$, $S_{v\,max} = 4{,}712$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	8,00	31,851	31,878	31,826	31,871	31,788	31,860	31,725	31,844	0,993
7	7,50	33,138	33,165	33,112	33,157	33,073	33,146	33,008	33,129	1,003
8	7,50	36,859	36,888	36,832	36,880	36,791	36,868	36,723	36,849	1,046
9	7,10	38,491	38,520	38,464	38,512	38,422	38,500	38,352	38,481	1,059
10	7,10	42,015	42,044	41,986	42,036	41,942	42,023	41,869	42,003	1,088
11	7,10	44,663	44,692	44,633	44,683	44,589	44,670	44,515	44,650	1,089
12	6,70	47,117	47,148	47,086	47,138	47,040	47,125	46,964	47,104	1,126
13	6,70	49,822	49,853	49,791	49,843	49,745	49,830	49,667	49,808	1,126
14	6,70	53,158	53,189	53,126	53,179	53,079	53,165	52,999	53,143	1,143
15	6,70	55,904	55,936	55,872	55,925	55,824	55,911	55,744	55,888	1,144
16	6,70	59,191	59,222	59,158	59,212	59,109	59,197	59,027	59,174	1,157
17	6,70	61,968	62,000	61,935	61,989	61,886	61,974	61,803	61,950	1,158
18	6,70	65,218	65,249	65,184	65,239	65,134	65,223	65,050	65,199	1,169
19	6,70	68,019	68,051	67,985	68,040	67,935	68,024	67,850	68,000	1,170
20	6,70	71,240	71,272	71,206	71,261	71,154	71,245	71,068	71,220	1,179
21	6,70	74,061	74,093	74,026	74,081	73,974	74,065	73,888	74,040	1,180
22	6,30	76,259	76,291	76,223	76,280	76,170	76,263	76,082	76,237	1,200
23	6,30	79,095	79,128	79,060	79,116	79,006	79,099	78,917	79,072	1,201
24	6,30	82,271	82,304	82,235	82,292	82,181	82,275	82,091	82,248	1,207
25	6,30	85,121	85,154	85,085	85,141	85,030	85,124	84,940	85,097	1,208
26	6,30	88,282	88,315	88,245	88,302	88,190	88,284	88,099	88,257	1,213
27	6,30	91,143	91,176	91,106	91,163	91,051	91,145	90,959	91,117	1,214
28	6,30	94,291	94,324	94,254	94,311	94,198	94,293	94,105	94,265	1,218
29	6,30	97,162	97,195	97,125	97,182	97,069	97,163	96,975	97,135	1,219
30	6,30	100,299	100,332	100,262	100,319	100,205	100,300	100,111	100,271	1,223
31	6,30	103,179	103,211	103,141	103,198	103,084	103,179	102,989	103,150	1,224
32	6,30	106,307	106,339	106,268	106,326	106,211	106,307	106,116	106,277	1,227
33	6,30	109,193	109,226	109,155	109,212	109,097	109,193	109,001	109,163	1,228
34	6,30	112,313	112,346	112,274	112,332	112,216	112,312	112,120	112,282	1,231
35	6,30	115,206	115,239	115,167	115,225	115,109	115,205	115,012	115,175	1,232
36	6,30	118,319	118,352	118,280	118,337	118,221	118,317	118,123	118,286	1,235
37	6,30	121,218	121,251	121,178	121,236	121,119	121,216	121,021	121,185	1,235
38	6,30	124,324	124,357	124,284	124,342	124,225	124,322	124,126	124,290	1,238
39	6,30	127,228	127,261	127,188	127,246	127,129	127,226	127,029	127,194	1,238
40	6,30	130,328	130,361	130,288	130,347	130,228	130,326	130,128	130,293	1,241
41	6,30	133,237	133,270	133,197	133,255	133,137	133,234	133,037	133,202	1,241
42	6,30	136,333	136,365	136,292	136,350	136,232	136,329	136,131	136,296	1,243
43	6,30	139,246	139,279	139,205	139,263	139,144	139,242	139,043	139,209	1,244
44	6,30	142,336	142,369	142,296	142,354	142,235	142,332	142,133	142,299	1,246
45	6,30	145,253	145,286	145,213	145,271	145,151	145,249	145,049	145,215	1,246
46	6,30	148,340	148,373	148,299	148,357	148,237	148,335	148,134	148,301	1,248
47	6,30	151,260	151,293	151,219	151,278	151,157	151,255	151,054	151,221	1,248
48	6,30	154,343	154,376	154,302	154,360	154,239	154,338	154,136	154,303	1,250
49	6,30	157,267	157,300	157,225	157,284	157,163	157,261	157,059	157,226	1,250
50	6,30	160,346	160,379	160,304	160,363	160,241	160,340	160,137	160,305	1,252
51	6,30	163,273	163,305	163,231	163,289	163,168	163,266	163,063	163,231	1,252
52	6,30	166,349	166,381	166,306	166,365	166,243	166,342	166,138	166,306	1,254
53	6,30	169,278	169,311	169,236	169,294	169,172	169,271	169,067	169,235	1,254
54	6,30	172,351	172,384	172,309	172,367	172,245	172,344	172,138	172,308	1,255
55	6,30	175,283	175,316	175,241	175,299	175,177	175,276	175,070	175,239	1,256
56	6,30	178,353	178,386	178,311	178,369	178,246	178,345	178,139	178,309	1,257
57	6,30	181,288	181,321	181,245	181,304	181,181	181,280	181,073	181,243	1,257
58	6,30	184,356	184,388	184,312	184,371	184,248	184,347	184,140	184,310	1,258
59	6,30	187,292	187,325	187,249	187,308	187,184	187,283	187,076	187,246	1,259
60	6,30	190,358	190,390	190,314	190,373	190,249	190,348	190,140	190,310	1,260
61	6,30	193,296	193,329	193,253	193,311	193,187	193,287	193,078	193,249	1,260
62	6,30	196,359	196,392	196,316	196,374	196,250	196,349	196,140	196,311	1,261
63	6,30	199,300	199,332	199,256	199,315	199,190	199,290	199,081	199,251	1,261
64	6,30	202,361	202,393	202,317	202,375	202,251	202,350	202,141	202,312	1,262
65	6,30	205,304	205,336	205,260	205,318	205,193	205,293	205,083	205,254	1,262
66	6,30	208,363	208,395	208,318	208,377	208,252	208,351	208,141	208,312	1,263
67	6,30	211,307	211,339	211,263	211,321	211,196	211,295	211,085	211,256	1,264
68	6,30	214,364	214,396	214,320	214,378	214,253	214,352	214,141	214,313	1,264
69	6,30	217,310	217,342	217,265	217,324	217,198	217,298	217,086	217,258	1,265
70	6,30	220,366	220,398	220,321	220,379	220,253	220,353	220,141	220,313	1,266
71	6,30	223,313	223,345	223,268	223,326	223,200	223,300	223,088	223,260	1,266
72	6,30	226,367	226,399	226,322	226,380	226,254	226,354	226,141	226,313	1,267
73	6,30	229,316	229,348	229,271	229,329	229,203	229,302	229,089	229,262	1,267
74	6,30	232,368	232,400	232,323	232,381	232,254	232,354	232,141	232,313	1,267
75	6,30	235,318	235,350	235,273	235,331	235,204	235,304	235,090	235,263	1,268
76	6,30	238,369	238,401	238,323	238,382	238,255	238,355	238,141	238,314	1,268
77	6,30	241,321	241,353	241,275	241,333	241,206	241,306	241,092	241,265	1,268
78	6,30	244,370	244,402	244,324	244,383	244,255	244,355	244,140	244,314	1,269
79	6,30	247,323	247,355	247,277	247,335	247,208	247,308	247,093	247,266	1,269
80	6,30	250,371	250,403	250,325	250,383	250,256	250,356	250,140	250,314	1,270
81	6,30	253,325	253,357	253,279	253,337	253,209	253,309	253,094	253,267	1,270
82	6,30	256,372	256,404	256,326	256,384	256,256	256,356	256,140	256,313	1,271
83	6,30	259,327	259,359	259,281	259,339	259,211	259,311	259,094	259,268	1,271
84	6,30	262,373	262,405	262,326	262,385	262,256	262,356	262,139	262,313	1,271
85	6,30	265,329	265,361	265,283	265,341	265,212	265,312	265,095	265,269	1,272
86	6,30	268,374	268,405	268,327	268,385	268,257	268,357	268,139	268,313	1,272
87	6,30	271,331	271,363	271,284	271,342	271,213	271,314	271,096	271,270	1,272
88	6,30	274,375	274,406	274,328	274,386	274,257	274,357	274,139	274,313	1,273
89	6,30	277,333	277,364	277,286	277,344	277,215	277,315	277,096	277,271	1,273
90	6,30	280,376	280,407	280,328	280,386	280,257	280,357	280,138	280,313	1,273
91	6,30	283,335	283,366	283,287	283,345	283,216	283,316	283,097	283,271	1,274
92	6,30	286,376	286,407	286,329	286,387	286,257	286,357	286,138	286,313	1,274
93	6,30	289,336	289,367	289,288	289,346	289,217	289,317	289,097	289,272	1,274
94	6,30	292,377	292,408	292,329	292,387	292,257	292,357	292,137	292,312	1,275
95	6,30	295,338	295,369	295,290	295,348	295,218	295,318	295,098	295,273	1,275
96	6,30	298,378	298,409	298,329	298,387	298,257	298,357	298,137	298,312	1,275
97	6,30	301,339	301,370	301,291	301,349	301,219	301,319	301,098	301,273	1,275
98	6,30	304,378	304,409	304,330	304,388	304,257	304,358	304,136	304,312	1,276
99	6,30	307,341	307,371	307,292	307,350	307,219	307,320	307,098	307,274	1,276
100	6,30	310,379	310,410	310,330	310,388	310,257	310,358	310,136	310,311	1,276

5.24 37,5° pressure angle, module 4

Table 93 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 4$, fillet root, $E_{v\,min} = 6{,}283$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	24,00	19,0405	29,84	28,40	21,22	6,330	6,358	6,400	6,470
7	28,00	22,2139	33,85	32,40	25,09	6,330	6,359	6,402	6,473
8	32,00	25,3873	37,85	36,40	28,99	6,331	6,360	6,403	6,475
9	36,00	28,5607	41,85	40,40	32,92	6,332	6,361	6,405	6,478
10	40,00	31,7341	45,86	44,40	36,86	6,332	6,362	6,406	6,480
11	44,00	34,9075	49,86	48,40	40,81	6,333	6,363	6,407	6,482
12	48,00	38,0810	53,86	52,40	44,78	6,333	6,363	6,409	6,484
13	52,00	41,2544	57,86	56,40	48,74	6,334	6,364	6,410	6,486
14	56,00	44,4278	61,87	60,40	52,72	6,334	6,365	6,411	6,488
15	60,00	47,6012	65,87	64,40	56,69	6,335	6,366	6,412	6,490
16	64,00	50,7746	69,87	68,40	60,68	6,335	6,366	6,413	6,491
17	68,00	53,9480	73,87	72,40	64,66	6,336	6,367	6,414	6,493
18	72,00	57,1214	77,88	76,40	68,64	6,336	6,368	6,415	6,495
19	76,00	60,2949	81,88	80,40	72,63	6,336	6,368	6,416	6,496
20	80,00	63,4683	85,88	84,40	76,62	6,337	6,369	6,417	6,498
21	84,00	66,6417	89,88	88,40	80,61	6,337	6,369	6,418	6,499
22	88,00	69,8151	93,88	92,40	84,60	6,337	6,370	6,419	6,500
23	92,00	72,9885	97,89	96,40	88,59	6,338	6,371	6,420	6,502
24	96,00	76,1619	101,89	100,40	92,58	6,338	6,371	6,421	6,503
25	100,00	79,3353	105,89	104,40	96,57	6,338	6,372	6,421	6,504
26	104,00	82,5087	109,89	108,40	100,56	6,339	6,372	6,422	6,506
27	108,00	85,6822	113,89	112,40	104,56	6,339	6,373	6,423	6,507
28	112,00	88,8556	117,89	116,40	108,55	6,339	6,373	6,424	6,508
29	116,00	92,0290	121,89	120,40	112,55	6,340	6,374	6,424	6,509
30	120,00	95,2024	125,90	124,40	116,54	6,340	6,374	6,425	6,510
31	124,00	98,3758	129,90	128,40	120,54	6,340	6,374	6,426	6,512
32	128,00	101,5492	133,90	132,40	124,53	6,340	6,375	6,427	6,513
33	132,00	104,7226	137,90	136,40	128,53	6,341	6,375	6,427	6,514
34	136,00	107,8961	141,90	140,40	132,52	6,341	6,376	6,428	6,515
35	140,00	111,0695	145,90	144,40	136,52	6,341	6,376	6,429	6,516
36	144,00	114,2429	149,90	148,40	140,52	6,341	6,377	6,429	6,517
37	148,00	117,4163	153,91	152,40	144,51	6,342	6,377	6,430	6,518
38	152,00	120,5897	157,91	156,40	148,51	6,342	6,377	6,431	6,519
39	156,00	123,7631	161,91	160,40	152,51	6,342	6,378	6,431	6,520
40	160,00	126,9365	165,91	164,40	156,51	6,342	6,378	6,432	6,521
41	164,00	130,1099	169,91	168,40	160,50	6,343	6,379	6,432	6,522
42	168,00	133,2834	173,91	172,40	164,50	6,343	6,379	6,433	6,523
43	172,00	136,4568	177,91	176,40	168,50	6,343	6,379	6,434	6,524
44	176,00	139,6302	181,92	180,40	172,50	6,343	6,380	6,434	6,525
45	180,00	142,8036	185,92	184,40	176,49	6,344	6,380	6,435	6,526
46	184,00	145,9770	189,92	188,40	180,49	6,344	6,380	6,435	6,527
47	188,00	149,1504	193,92	192,40	184,49	6,344	6,381	6,436	6,527
48	192,00	152,3238	197,92	196,40	188,49	6,344	6,381	6,436	6,528
49	196,00	155,4973	201,92	200,40	192,49	6,345	6,382	6,437	6,529
50	200,00	158,6707	205,92	204,40	196,48	6,345	6,382	6,437	6,530
51	204,00	161,8441	209,92	208,40	200,48	6,345	6,382	6,438	6,531
52	208,00	165,0175	213,92	212,40	204,48	6,345	6,383	6,439	6,532
53	212,00	168,1909	217,93	216,40	208,48	6,345	6,383	6,439	6,533
54	216,00	171,3643	221,93	220,40	212,48	6,346	6,383	6,440	6,534
55	220,00	174,5377	225,93	224,40	216,48	6,346	6,384	6,440	6,534
56	224,00	177,7111	229,93	228,40	220,47	6,346	6,384	6,441	6,535
57	228,00	180,8846	233,93	232,40	224,47	6,346	6,384	6,441	6,536
58	232,00	184,0580	237,93	236,40	228,47	6,346	6,384	6,442	6,537
59	236,00	187,2314	241,93	240,40	232,47	6,347	6,385	6,442	6,538
60	240,00	190,4048	245,93	244,40	236,47	6,347	6,385	6,443	6,538
61	244,00	193,5782	249,93	248,40	240,47	6,347	6,385	6,443	6,539
62	248,00	196,7516	253,93	252,40	244,47	6,347	6,386	6,444	6,540
63	252,00	199,9250	257,94	256,40	248,47	6,347	6,386	6,444	6,541
64	256,00	203,0985	261,94	260,40	252,47	6,348	6,386	6,444	6,541
65	260,00	206,2719	265,94	264,40	256,46	6,348	6,387	6,445	6,542
66	264,00	209,4453	269,94	268,40	260,46	6,348	6,387	6,445	6,543
67	268,00	212,6187	273,94	272,40	264,46	6,348	6,387	6,446	6,544
68	272,00	215,7921	277,94	276,40	268,46	6,348	6,388	6,446	6,544
69	276,00	218,9655	281,94	280,40	272,46	6,349	6,388	6,447	6,545
70	280,00	222,1389	285,94	284,40	276,46	6,349	6,388	6,447	6,546
71	284,00	225,3123	289,94	288,40	280,46	6,349	6,388	6,448	6,547
72	288,00	228,4858	293,94	292,40	284,46	6,349	6,389	6,448	6,547
73	292,00	231,6592	297,95	296,40	288,46	6,349	6,389	6,449	6,548
74	296,00	234,8326	301,95	300,40	292,46	6,349	6,389	6,449	6,549
75	300,00	238,0060	305,95	304,40	296,46	6,350	6,390	6,449	6,549
76	304,00	241,1794	309,95	308,40	300,45	6,350	6,390	6,450	6,550
77	308,00	244,3528	313,95	312,40	304,45	6,350	6,390	6,450	6,551
78	312,00	247,5262	317,95	316,40	308,45	6,350	6,390	6,451	6,551
79	316,00	250,6997	321,95	320,40	312,45	6,350	6,391	6,451	6,552
80	320,00	253,8731	325,95	324,40	316,45	6,350	6,391	6,452	6,553
81	324,00	257,0465	329,95	328,40	320,45	6,351	6,391	6,452	6,553
82	328,00	260,2199	333,95	332,40	324,45	6,351	6,391	6,452	6,554
83	332,00	263,3933	337,95	336,40	328,45	6,351	6,392	6,453	6,555
84	336,00	266,5667	341,96	340,40	332,45	6,351	6,392	6,453	6,555
85	340,00	269,7401	345,96	344,40	336,45	6,351	6,392	6,454	6,556
86	344,00	272,9135	349,96	348,40	340,45	6,351	6,392	6,454	6,557
87	348,00	276,0870	353,96	352,40	344,45	6,352	6,393	6,454	6,557
88	352,00	279,2604	357,96	356,40	348,45	6,352	6,393	6,455	6,558
89	356,00	282,4338	361,96	360,40	352,45	6,352	6,393	6,455	6,559
90	360,00	285,6072	365,96	364,40	356,45	6,352	6,394	6,456	6,559
91	364,00	288,7806	369,96	368,40	360,45	6,352	6,394	6,456	6,560
92	368,00	291,9540	373,96	372,40	364,45	6,352	6,394	6,456	6,561
93	372,00	295,1274	377,96	376,40	368,44	6,353	6,394	6,457	6,561
94	376,00	298,3009	381,96	380,40	372,44	6,353	6,395	6,457	6,562
95	380,00	301,4743	385,96	384,40	376,44	6,353	6,395	6,458	6,562
96	384,00	304,6477	389,96	388,40	380,44	6,353	6,395	6,458	6,563
97	388,00	307,8211	393,97	392,40	384,44	6,353	6,395	6,458	6,564
98	392,00	310,9945	397,97	396,40	388,44	6,353	6,396	6,459	6,564
99	396,00	314,1679	401,97	400,40	392,44	6,353	6,396	6,459	6,565
100	400,00	317,3413	405,97	404,40	396,44	6,354	6,396	6,460	6,565

Table 94 — Geometry external spline, $\alpha = 37{,}5°$, $m = 4$, fillet root, $S_{v\,max} = 6{,}283$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	24,00	19,0405	27,60	20,42	18,16	6,236	6,208	6,166	6,096
7	28,00	22,2139	31,60	24,29	22,15	6,236	6,207	6,164	6,093
8	32,00	25,3873	35,60	28,19	26,15	6,235	6,206	6,163	6,091
9	36,00	28,5607	39,60	32,12	30,15	6,234	6,205	6,161	6,088
10	40,00	31,7341	43,60	36,06	34,14	6,234	6,204	6,160	6,086
11	44,00	34,9075	47,60	40,01	38,14	6,233	6,203	6,159	6,084
12	48,00	38,0810	51,60	43,98	42,14	6,233	6,203	6,157	6,082
13	52,00	41,2544	55,60	47,94	46,14	6,232	6,202	6,156	6,080
14	56,00	44,4278	59,60	51,92	50,13	6,232	6,201	6,155	6,078
15	60,00	47,6012	63,60	55,89	54,13	6,231	6,200	6,154	6,076
16	64,00	50,7746	67,60	59,88	58,13	6,231	6,200	6,153	6,075
17	68,00	53,9480	71,60	63,86	62,13	6,230	6,199	6,152	6,073
18	72,00	57,1214	75,60	67,84	66,12	6,230	6,198	6,151	6,071
19	76,00	60,2949	79,60	71,83	70,12	6,230	6,198	6,150	6,070
20	80,00	63,4683	83,60	75,82	74,12	6,229	6,197	6,149	6,068
21	84,00	66,6417	87,60	79,81	78,12	6,229	6,197	6,148	6,067
22	88,00	69,8151	91,60	83,80	82,12	6,229	6,196	6,147	6,066
23	92,00	72,9885	95,60	87,79	86,11	6,228	6,195	6,146	6,064
24	96,00	76,1619	99,60	91,78	90,11	6,228	6,195	6,145	6,063
25	100,00	79,3353	103,60	95,77	94,11	6,228	6,194	6,145	6,062
26	104,00	82,5087	107,60	99,76	98,11	6,227	6,194	6,144	6,060
27	108,00	85,6822	111,60	103,76	102,11	6,227	6,193	6,143	6,059
28	112,00	88,8556	115,60	107,75	106,11	6,227	6,193	6,142	6,058
29	116,00	92,0290	119,60	111,75	110,11	6,226	6,192	6,142	6,057
30	120,00	95,2024	123,60	115,74	114,10	6,226	6,192	6,141	6,056
31	124,00	98,3758	127,60	119,74	118,10	6,226	6,192	6,140	6,054
32	128,00	101,5492	131,60	123,73	122,10	6,226	6,191	6,139	6,053
33	132,00	104,7226	135,60	127,73	126,10	6,225	6,191	6,139	6,052
34	136,00	107,8961	139,60	131,72	130,10	6,225	6,190	6,138	6,051
35	140,00	111,0695	143,60	135,72	134,10	6,225	6,190	6,137	6,050
36	144,00	114,2429	147,60	139,72	138,10	6,225	6,189	6,137	6,049
37	148,00	117,4163	151,60	143,71	142,09	6,224	6,189	6,136	6,048
38	152,00	120,5897	155,60	147,71	146,09	6,224	6,189	6,135	6,047
39	156,00	123,7631	159,60	151,71	150,09	6,224	6,188	6,135	6,046
40	160,00	126,9365	163,60	155,71	154,09	6,224	6,188	6,134	6,045
41	164,00	130,1099	167,60	159,70	158,09	6,223	6,187	6,134	6,044
42	168,00	133,2834	171,60	163,70	162,09	6,223	6,187	6,133	6,043
43	172,00	136,4568	175,60	167,70	166,09	6,223	6,187	6,132	6,042
44	176,00	139,6302	179,60	171,70	170,08	6,223	6,186	6,132	6,041
45	180,00	142,8036	183,60	175,69	174,08	6,222	6,186	6,131	6,040
46	184,00	145,9770	187,60	179,69	178,08	6,222	6,186	6,131	6,039
47	188,00	149,1504	191,60	183,69	182,08	6,222	6,185	6,130	6,039
48	192,00	152,3238	195,60	187,69	186,08	6,222	6,185	6,130	6,038
49	196,00	155,4973	199,60	191,69	190,08	6,221	6,184	6,129	6,037
50	200,00	158,6707	203,60	195,68	194,08	6,221	6,184	6,129	6,036
51	204,00	161,8441	207,60	199,68	198,08	6,221	6,184	6,128	6,035
52	208,00	165,0175	211,60	203,68	202,08	6,221	6,183	6,127	6,034
53	212,00	168,1909	215,60	207,68	206,07	6,221	6,183	6,127	6,033
54	216,00	171,3643	219,60	211,68	210,07	6,220	6,183	6,126	6,032
55	220,00	174,5377	223,60	215,68	214,07	6,220	6,182	6,126	6,032
56	224,00	177,7111	227,60	219,67	218,07	6,220	6,182	6,125	6,031
57	228,00	180,8846	231,60	223,67	222,07	6,220	6,182	6,125	6,030
58	232,00	184,0580	235,60	227,67	226,07	6,220	6,182	6,124	6,029
59	236,00	187,2314	239,60	231,67	230,07	6,219	6,181	6,124	6,028
60	240,00	190,4048	243,60	235,67	234,07	6,219	6,181	6,123	6,028
61	244,00	193,5782	247,60	239,67	238,07	6,219	6,181	6,123	6,027
62	248,00	196,7516	251,60	243,67	242,07	6,219	6,180	6,122	6,026
63	252,00	199,9250	255,60	247,67	246,06	6,219	6,180	6,122	6,025
64	256,00	203,0985	259,60	251,67	250,06	6,218	6,180	6,122	6,025
65	260,00	206,2719	263,60	255,66	254,06	6,218	6,179	6,121	6,024
66	264,00	209,4453	267,60	259,66	258,06	6,218	6,179	6,121	6,023
67	268,00	212,6187	271,60	263,66	262,06	6,218	6,179	6,120	6,022
68	272,00	215,7921	275,60	267,66	266,06	6,218	6,178	6,120	6,022
69	276,00	218,9655	279,60	271,66	270,06	6,217	6,178	6,119	6,021
70	280,00	222,1389	283,60	275,66	274,06	6,217	6,178	6,119	6,020
71	284,00	225,3123	287,60	279,66	278,06	6,217	6,178	6,118	6,019
72	288,00	228,4858	291,60	283,66	282,06	6,217	6,177	6,118	6,019
73	292,00	231,6592	295,60	287,66	286,05	6,217	6,177	6,117	6,018
74	296,00	234,8326	299,60	291,66	290,05	6,217	6,177	6,117	6,017
75	300,00	238,0060	303,60	295,66	294,05	6,216	6,176	6,117	6,017
76	304,00	241,1794	307,60	299,65	298,05	6,216	6,176	6,116	6,016
77	308,00	244,3528	311,60	303,65	302,05	6,216	6,176	6,116	6,015
78	312,00	247,5262	315,60	307,65	306,05	6,216	6,176	6,115	6,015
79	316,00	250,6997	319,60	311,65	310,05	6,216	6,175	6,115	6,014
80	320,00	253,8731	323,60	315,65	314,05	6,216	6,175	6,114	6,013
81	324,00	257,0465	327,60	319,65	318,05	6,215	6,175	6,114	6,013
82	328,00	260,2199	331,60	323,65	322,05	6,215	6,175	6,114	6,012
83	332,00	263,3933	335,60	327,65	326,05	6,215	6,174	6,113	6,011
84	336,00	266,5667	339,60	331,65	330,04	6,215	6,174	6,113	6,011
85	340,00	269,7401	343,60	335,65	334,04	6,215	6,174	6,112	6,010
86	344,00	272,9135	347,60	339,65	338,04	6,215	6,174	6,112	6,009
87	348,00	276,0870	351,60	343,65	342,04	6,214	6,173	6,112	6,009
88	352,00	279,2604	355,60	347,65	346,04	6,214	6,173	6,111	6,008
89	356,00	282,4338	359,60	351,65	350,04	6,214	6,173	6,111	6,007
90	360,00	285,6072	363,60	355,65	354,04	6,214	6,172	6,110	6,007
91	364,00	288,7806	367,60	359,65	358,04	6,214	6,172	6,110	6,006
92	368,00	291,9540	371,60	363,65	362,04	6,214	6,172	6,110	6,005
93	372,00	295,1274	375,60	367,64	366,04	6,213	6,172	6,109	6,005
94	376,00	298,3009	379,60	371,64	370,04	6,213	6,171	6,109	6,004
95	380,00	301,4743	383,60	375,64	374,04	6,213	6,171	6,108	6,004
96	384,00	304,6477	387,60	379,64	378,04	6,213	6,171	6,108	6,003
97	388,00	307,8211	391,60	383,64	382,03	6,213	6,171	6,108	6,002
98	392,00	310,9945	395,60	387,64	386,03	6,213	6,170	6,107	6,002
99	396,00	314,1679	399,60	391,64	390,03	6,213	6,170	6,107	6,001
100	400,00	317,3413	403,60	395,64	394,03	6,212	6,170	6,106	6,001

Table 95 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 4$, $E_{v\,min} = 6{,}283$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	7,10	12,302	12,416	12,334	12,513	12,380	12,645	12,448	12,842	2,668
7	7,10	16,151	16,214	16,169	16,273	16,194	16,360	16,234	16,500	1,946
8	7,10	20,918	20,974	20,934	21,027	20,957	21,106	20,994	21,236	1,786
9	7,10	24,529	24,580	24,544	24,630	24,566	24,703	24,600	24,825	1,652
10	7,50	27,815	27,869	27,831	27,922	27,855	28,001	27,891	28,131	1,745
11	7,50	31,500	31,551	31,516	31,601	31,538	31,676	31,573	31,800	1,648
12	7,50	35,964	36,014	35,980	36,063	36,002	36,137	36,037	36,259	1,610
13	7,50	39,667	39,714	39,682	39,762	39,703	39,834	39,737	39,953	1,559
14	7,50	44,052	44,098	44,067	44,146	44,089	44,218	44,123	44,337	1,540
15	7,50	47,779	47,824	47,794	47,872	47,816	47,942	47,850	48,060	1,507
16	7,50	52,110	52,155	52,125	52,202	52,147	52,273	52,181	52,390	1,496
17	7,50	55,861	55,905	55,876	55,952	55,898	56,022	55,932	56,138	1,473
18	7,50	60,151	60,196	60,167	60,242	60,189	60,313	60,223	60,429	1,466
19	7,50	63,923	63,967	63,939	64,014	63,961	64,083	63,995	64,200	1,449
20	7,50	68,183	68,226	68,198	68,273	68,221	68,343	68,256	68,460	1,444
21	8,00	70,551	70,595	70,567	70,643	70,590	70,715	70,626	70,835	1,471
22	8,00	74,790	74,833	74,806	74,881	74,829	74,953	74,865	75,073	1,464
23	8,00	78,603	78,647	78,620	78,695	78,643	78,766	78,679	78,886	1,451
24	8,00	82,820	82,863	82,837	82,911	82,860	82,983	82,897	83,103	1,446
25	8,00	86,646	86,689	86,663	86,737	86,687	86,809	86,723	86,928	1,435
26	8,00	90,845	90,888	90,862	90,936	90,886	91,008	90,923	91,128	1,431
27	8,00	94,682	94,725	94,699	94,773	94,723	94,844	94,760	94,964	1,423
28	8,00	98,866	98,908	98,883	98,957	98,908	99,029	98,945	99,149	1,420
29	8,00	102,713	102,755	102,730	102,803	102,754	102,875	102,792	102,995	1,412
30	8,00	106,884	106,926	106,901	106,974	106,926	107,046	106,964	107,167	1,410
31	8,00	110,739	110,781	110,757	110,829	110,782	110,901	110,820	111,022	1,404
32	8,00	114,899	114,941	114,917	114,989	114,942	115,062	114,980	115,183	1,402
33	8,00	118,763	118,803	118,780	118,852	118,805	118,925	118,844	119,046	1,396
34	8,00	122,913	122,954	122,931	123,002	122,956	123,075	122,995	123,197	1,395
35	8,00	126,783	126,824	126,801	126,872	126,826	126,945	126,866	127,067	1,390
36	8,00	130,924	130,965	130,943	131,014	130,968	131,087	131,008	131,209	1,388
37	8,00	134,801	134,841	134,819	134,890	134,845	134,964	134,885	135,086	1,384
38	8,00	138,935	138,975	138,953	139,024	138,979	139,098	139,019	139,220	1,383
39	8,00	142,817	142,857	142,836	142,906	142,862	142,980	142,902	143,103	1,379
40	8,00	146,944	146,984	146,963	147,033	146,989	147,107	147,030	147,230	1,378
41	8,00	150,832	150,871	150,851	150,921	150,877	150,995	150,918	151,118	1,375
42	8,00	154,953	154,992	154,971	155,042	154,998	155,116	155,039	155,240	1,374
43	8,00	158,845	158,884	158,864	158,934	158,891	159,009	158,932	159,132	1,371
44	8,00	162,960	162,999	162,979	163,049	163,006	163,124	163,048	163,248	1,370
45	8,00	166,857	166,896	166,876	166,946	166,904	167,021	166,946	167,146	1,368
46	8,00	170,967	171,006	170,986	171,056	171,014	171,131	171,056	171,256	1,367
47	8,00	174,868	174,907	174,888	174,957	174,915	175,032	174,958	175,158	1,365
48	8,00	178,973	179,012	178,993	179,062	179,021	179,138	179,064	179,264	1,364
49	8,00	182,878	182,917	182,898	182,967	182,926	183,043	182,969	183,169	1,362
50	8,00	186,979	187,018	186,999	187,068	187,027	187,144	187,071	187,270	1,361
51	8,00	190,888	190,926	190,908	190,977	190,936	191,053	190,980	191,179	1,359
52	8,00	194,985	195,023	195,005	195,074	195,033	195,150	195,077	195,277	1,359
53	8,00	198,896	198,934	198,917	198,985	198,945	199,062	198,990	199,189	1,357
54	8,00	202,990	203,028	203,010	203,079	203,039	203,155	203,083	203,283	1,356
55	8,00	206,904	206,942	206,925	206,993	206,954	207,070	206,999	207,198	1,355
56	8,00	210,994	211,032	211,015	211,083	211,044	211,160	211,089	211,289	1,354
57	8,00	214,912	214,950	214,933	215,001	214,962	215,078	215,007	215,206	1,353
58	8,00	218,999	219,036	219,020	219,088	219,049	219,165	219,095	219,294	1,352
59	8,00	222,919	222,956	222,940	223,008	222,970	223,086	223,015	223,215	1,351
60	8,00	227,003	227,040	227,024	227,092	227,054	227,170	227,100	227,299	1,350
61	8,00	230,925	230,963	230,947	231,015	230,977	231,093	231,023	231,222	1,349
62	8,00	235,006	235,044	235,028	235,096	235,058	235,174	235,105	235,304	1,349
63	8,00	238,932	238,969	238,953	239,021	238,984	239,099	239,030	239,229	1,347
64	8,00	243,010	243,047	243,032	243,100	243,063	243,178	243,110	243,309	1,347
65	8,00	246,937	246,974	246,959	247,027	246,990	247,105	247,037	247,236	1,346
66	8,00	251,013	251,050	251,035	251,103	251,067	251,182	251,114	251,313	1,346
67	8,00	254,943	254,980	254,965	255,032	254,996	255,111	255,044	255,243	1,345
68	8,00	259,017	259,053	259,039	259,106	259,070	259,185	259,118	259,317	1,344
69	8,00	262,948	262,985	262,970	263,038	263,002	263,117	263,050	263,249	1,343
70	8,00	267,020	267,056	267,042	267,109	267,074	267,189	267,122	267,321	1,343
71	8,00	270,953	270,989	270,975	271,043	271,007	271,122	271,056	271,255	1,342
72	8,00	275,023	275,059	275,045	275,112	275,077	275,192	275,126	275,325	1,342
73	8,00	278,958	278,994	278,980	279,047	279,013	279,127	279,062	279,261	1,341
74	8,00	283,025	283,062	283,048	283,115	283,081	283,195	283,130	283,329	1,341
75	8,00	286,962	286,998	286,985	287,052	287,018	287,132	287,067	287,266	1,340
76	8,00	291,028	291,064	291,051	291,118	291,084	291,198	291,134	291,333	1,339
77	8,00	294,966	295,002	294,989	295,056	295,022	295,137	295,072	295,271	1,339
78	8,00	299,031	299,066	299,054	299,120	299,087	299,201	299,137	299,336	1,338
79	8,00	302,970	303,006	302,994	303,060	303,027	303,141	303,078	303,276	1,338
80	8,00	307,033	307,069	307,057	307,123	307,090	307,204	307,141	307,340	1,337
81	8,00	310,974	311,010	310,998	311,064	311,031	311,146	311,082	311,281	1,337
82	8,00	315,035	315,071	315,059	315,125	315,093	315,207	315,144	315,343	1,337
83	8,00	318,978	319,013	319,002	319,068	319,036	319,150	319,087	319,286	1,336
84	8,00	323,037	323,073	323,061	323,128	323,096	323,210	323,147	323,346	1,336
85	8,00	326,981	327,017	327,005	327,071	327,040	327,154	327,092	327,290	1,335
86	8,00	331,040	331,075	331,064	331,130	331,098	331,212	331,150	331,349	1,335
87	8,00	334,985	335,020	335,009	335,075	335,044	335,157	335,096	335,295	1,334
88	8,00	339,042	339,077	339,066	339,132	339,101	339,215	339,153	339,352	1,334
89	8,00	342,988	343,023	343,013	343,078	343,047	343,161	343,100	343,299	1,334
90	8,00	347,044	347,079	347,068	347,134	347,103	347,217	347,156	347,355	1,333
91	8,00	350,991	351,026	351,016	351,081	351,051	351,165	351,104	351,303	1,333
92	8,00	355,045	355,080	355,070	355,136	355,106	355,219	355,159	355,358	1,333
93	8,00	358,994	359,029	359,019	359,085	359,054	359,168	359,108	359,307	1,332
94	8,00	363,047	363,082	363,072	363,138	363,108	363,221	363,162	363,361	1,332
95	8,00	366,997	367,032	367,022	367,087	367,058	367,171	367,112	367,311	1,331
96	8,00	371,049	371,084	371,074	371,140	371,110	371,224	371,165	371,363	1,331
97	8,00	375,000	375,034	375,025	375,090	375,061	375,174	375,116	375,315	1,331
98	8,00	379,051	379,085	379,076	379,141	379,112	379,226	379,167	379,366	1,331
99	8,00	383,002	383,037	383,028	383,093	383,064	383,178	383,119	383,318	1,330
100	8,00	387,052	387,087	387,078	387,143	387,115	387,228	387,170	387,369	1,330

Table 96 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 4$, $S_{v\,max} = 6{,}283$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	10,60	42,328	42,358	42,300	42,350	42,259	42,338	42,189	42,319	0,994
7	10,00	44,193	44,223	44,165	44,215	44,122	44,203	44,051	44,184	1,002
8	9,50	47,995	48,027	47,965	48,018	47,919	48,005	47,843	47,984	1,059
9	9,50	51,410	51,442	51,380	51,433	51,333	51,419	51,256	51,398	1,057
10	9,50	56,110	56,142	56,078	56,133	56,030	56,119	55,950	56,096	1,086
11	9,00	58,453	58,486	58,420	58,476	58,371	58,461	58,289	58,438	1,101
12	9,00	62,995	63,029	62,962	63,019	62,911	63,003	62,826	62,980	1,123
13	9,00	66,602	66,636	66,568	66,625	66,517	66,610	66,431	66,586	1,123
14	9,00	71,052	71,086	71,017	71,075	70,964	71,059	70,877	71,034	1,140
15	9,00	74,714	74,748	74,678	74,737	74,625	74,720	74,537	74,695	1,141
16	9,00	79,097	79,132	79,061	79,120	79,007	79,103	78,917	79,077	1,154
17	9,00	82,800	82,835	82,764	82,823	82,709	82,806	82,619	82,780	1,155
18	9,00	87,134	87,169	87,097	87,157	87,042	87,139	86,949	87,112	1,166
19	8,50	89,632	89,667	89,594	89,655	89,538	89,637	89,444	89,609	1,180
20	8,50	93,922	93,957	93,884	93,944	93,826	93,926	93,731	93,898	1,189
21	8,50	97,683	97,718	97,644	97,705	97,586	97,686	97,490	97,658	1,190
22	8,50	101,942	101,978	101,904	101,965	101,845	101,946	101,748	101,917	1,197
23	8,50	105,724	105,760	105,685	105,747	105,626	105,727	105,528	105,698	1,198
24	8,50	109,960	109,996	109,920	109,982	109,861	109,963	109,762	109,932	1,204
25	8,50	113,760	113,795	113,720	113,782	113,660	113,762	113,560	113,731	1,205
26	8,50	117,975	118,011	117,935	117,997	117,875	117,977	117,774	117,946	1,210
27	8,50	121,790	121,826	121,750	121,812	121,689	121,791	121,587	121,760	1,211
28	8,50	125,989	126,024	125,948	126,010	125,886	125,989	125,784	125,957	1,215
29	8,50	129,816	129,852	129,775	129,838	129,713	129,817	129,610	129,784	1,216
30	8,50	134,000	134,036	133,959	134,021	133,896	134,000	133,792	133,967	1,220
31	8,50	137,839	137,875	137,798	137,860	137,735	137,839	137,630	137,806	1,221
32	8,50	142,011	142,046	141,969	142,031	141,905	142,009	141,800	141,976	1,225
33	8,50	145,860	145,895	145,817	145,880	145,754	145,858	145,648	145,824	1,225
34	8,50	150,020	150,055	149,977	150,040	149,913	150,018	149,806	149,984	1,229
35	8,50	153,877	153,913	153,835	153,897	153,770	153,875	153,663	153,840	1,229
36	8,50	158,028	158,064	157,985	158,048	157,920	158,025	157,812	157,990	1,232
37	8,50	161,893	161,929	161,850	161,913	161,785	161,890	161,676	161,855	1,233
38	8,50	166,035	166,071	165,992	166,055	165,926	166,032	165,817	165,996	1,235
39	8,50	169,908	169,943	169,864	169,927	169,798	169,904	169,688	169,868	1,236
40	8,50	174,042	174,078	173,998	174,061	173,932	174,037	173,821	174,001	1,238
41	8,50	177,921	177,956	177,876	177,940	177,810	177,916	177,699	177,879	1,239
42	8,50	182,048	182,084	182,004	182,067	181,937	182,043	181,825	182,006	1,241
43	8,50	185,933	185,968	185,888	185,951	185,821	185,927	185,709	185,889	1,241
44	8,50	190,054	190,089	190,009	190,072	189,941	190,047	189,828	190,010	1,244
45	8,50	193,943	193,979	193,898	193,961	193,830	193,936	193,717	193,898	1,244
46	8,50	198,059	198,094	198,013	198,077	197,945	198,052	197,831	198,013	1,246
47	8,50	201,953	201,988	201,907	201,971	201,839	201,945	201,725	201,907	1,246
48	8,50	206,063	206,099	206,018	206,081	205,949	206,055	205,834	206,016	1,248
49	8,50	209,962	209,997	209,916	209,979	209,847	209,954	209,732	209,914	1,248
50	8,50	214,068	214,103	214,021	214,085	213,952	214,059	213,836	214,019	1,250
51	8,50	217,970	218,005	217,924	217,987	217,854	217,961	217,738	217,921	1,250
52	8,50	222,072	222,107	222,025	222,088	221,955	222,062	221,838	222,022	1,252
53	8,50	225,978	226,013	225,931	225,994	225,861	225,968	225,744	225,927	1,252
54	8,50	230,075	230,110	230,028	230,092	229,958	230,065	229,840	230,024	1,253
55	8,50	233,985	234,020	233,938	234,001	233,867	233,974	233,749	233,933	1,254
56	8,50	238,079	238,114	238,031	238,095	237,960	238,067	237,841	238,026	1,255
57	8,50	241,992	242,026	241,944	242,007	241,873	241,980	241,754	241,938	1,255
58	8,50	246,082	246,117	246,034	246,097	245,962	246,070	245,843	246,028	1,257
59	8,50	249,998	250,032	249,950	250,013	249,878	249,985	249,758	249,943	1,257
60	8,50	254,085	254,120	254,037	254,100	253,964	254,072	253,844	254,029	1,258
61	8,50	258,003	258,038	257,955	258,018	257,883	257,990	257,762	257,947	1,258
62	8,50	262,087	262,122	262,039	262,102	261,966	262,074	261,845	262,031	1,259
63	8,50	266,009	266,043	265,960	266,023	265,887	265,995	265,765	265,951	1,260
64	8,50	270,090	270,125	270,041	270,104	269,968	270,076	269,846	270,032	1,261
65	8,50	274,014	274,048	273,965	274,028	273,891	273,999	273,769	273,955	1,261
66	8,50	278,092	278,127	278,043	278,106	277,969	278,077	277,847	278,033	1,262
67	8,50	282,018	282,053	281,969	282,032	281,895	282,003	281,772	281,958	1,262
68	8,50	286,095	286,129	286,045	286,108	285,971	286,079	285,847	286,034	1,263
69	8,50	290,023	290,057	289,973	290,036	289,899	290,006	289,774	289,961	1,263
70	8,50	294,097	294,131	294,047	294,110	293,972	294,080	293,848	294,035	1,264
71	8,50	298,027	298,061	297,977	298,040	297,902	298,010	297,777	297,964	1,264
72	8,50	302,099	302,133	302,048	302,112	301,973	302,081	301,848	302,035	1,265
73	8,50	306,031	306,065	305,980	306,043	305,905	306,013	305,779	305,967	1,265
74	8,50	310,100	310,135	310,050	310,113	309,974	310,082	309,848	310,036	1,266
75	8,50	314,034	314,068	313,984	314,047	313,908	314,016	313,781	313,969	1,266
76	8,50	318,102	318,136	318,051	318,114	317,975	318,083	317,849	318,036	1,267
77	8,50	322,038	322,072	321,987	322,050	321,911	322,019	321,783	321,971	1,267
78	8,50	326,104	326,138	326,053	326,116	325,976	326,084	325,849	326,037	1,268
79	8,50	330,041	330,075	329,990	330,053	329,913	330,021	329,785	329,973	1,268
80	8,50	334,105	334,139	334,054	334,117	333,977	334,085	333,849	334,037	1,269
81	8,50	338,044	338,078	337,993	338,055	337,916	338,024	337,787	337,975	1,269
82	8,50	342,107	342,141	342,055	342,118	341,978	342,086	341,849	342,037	1,269
83	8,50	346,047	346,081	345,995	346,058	345,918	346,026	345,788	345,977	1,270
84	8,50	350,108	350,142	350,056	350,119	349,978	350,087	349,849	350,038	1,270
85	8,50	354,050	354,083	353,998	354,060	353,920	354,028	353,790	353,979	1,270
86	8,50	358,109	358,143	358,057	358,120	357,979	358,087	357,849	358,038	1,271
87	8,50	362,052	362,086	362,000	362,063	361,922	362,030	361,791	361,980	1,271
88	8,50	366,111	366,144	366,058	366,121	365,980	366,088	365,849	366,038	1,272
89	8,50	370,055	370,088	370,002	370,065	369,924	370,032	369,792	369,982	1,272
90	8,50	374,112	374,145	374,059	374,122	373,980	374,088	373,848	374,038	1,272
91	8,50	378,057	378,091	378,005	378,067	377,925	378,034	377,793	377,983	1,272
92	8,50	382,113	382,146	382,060	382,122	381,981	382,089	381,848	382,038	1,273
93	8,50	386,060	386,093	386,007	386,069	385,927	386,035	385,794	385,984	1,273
94	8,50	390,114	390,147	390,061	390,123	389,981	390,089	389,848	390,038	1,273
95	8,50	394,062	394,095	394,008	394,071	393,928	394,037	393,795	393,985	1,274
96	8,50	398,115	398,148	398,061	398,124	397,981	398,090	397,847	398,038	1,274
97	8,50	402,064	402,097	402,010	402,072	401,930	402,038	401,796	401,986	1,274
98	8,50	406,116	406,149	406,062	406,124	405,982	406,090	405,847	406,037	1,275
99	8,50	410,066	410,099	410,012	410,074	409,931	410,039	409,796	409,987	1,275
100	8,50	414,117	414,150	414,063	414,125	413,982	414,090	413,847	414,037	1,275

5.25 37,5° pressure angle, module 5

Table 97 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 5$, fillet root, $E_{v\,min} = 7{,}854$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	30,00	23,8006	37,26	35,50	26,53	7,904	7,935	7,980	8,056
7	35,00	27,7674	42,27	40,50	31,36	7,905	7,936	7,982	8,059
8	40,00	31,7341	47,27	45,50	36,24	7,906	7,937	7,984	8,062
9	45,00	35,7009	52,27	50,50	41,15	7,907	7,938	7,985	8,064
10	50,00	39,6677	57,28	55,50	46,07	7,907	7,939	7,987	8,067
11	55,00	43,6344	62,28	60,50	51,02	7,908	7,940	7,988	8,069
12	60,00	47,6012	67,28	65,50	55,97	7,908	7,941	7,990	8,071
13	65,00	51,5680	72,29	70,50	60,93	7,909	7,942	7,991	8,073
14	70,00	55,5347	77,29	75,50	65,90	7,909	7,943	7,992	8,075
15	75,00	59,5015	82,29	80,50	70,87	7,910	7,943	7,994	8,077
16	80,00	63,4683	87,29	85,50	75,84	7,910	7,944	7,995	8,079
17	85,00	67,4350	92,30	90,50	80,82	7,911	7,945	7,996	8,081
18	90,00	71,4018	97,30	95,50	85,80	7,911	7,945	7,997	8,083
19	95,00	75,3686	102,30	100,50	90,79	7,912	7,946	7,998	8,084
20	100,00	79,3353	107,30	105,50	95,77	7,912	7,947	7,999	8,086
21	105,00	83,3021	112,30	110,50	100,76	7,912	7,947	8,000	8,087
22	110,00	87,2689	117,31	115,50	105,75	7,913	7,948	8,001	8,089
23	115,00	91,2356	122,31	120,50	110,73	7,913	7,949	8,002	8,091
24	120,00	95,2024	127,31	125,50	115,72	7,913	7,949	8,003	8,092
25	125,00	99,1692	132,31	130,50	120,71	7,914	7,950	8,004	8,093
26	130,00	103,1359	137,31	135,50	125,71	7,914	7,950	8,004	8,095
27	135,00	107,1027	142,32	140,50	130,70	7,915	7,951	8,005	8,096
28	140,00	111,0695	147,32	145,50	135,69	7,915	7,951	8,006	8,097
29	145,00	115,0362	152,32	150,50	140,68	7,915	7,952	8,007	8,099
30	150,00	119,0030	157,32	155,50	145,68	7,916	7,952	8,008	8,100
31	155,00	122,9698	162,32	160,50	150,67	7,916	7,953	8,009	8,101
32	160,00	126,9365	167,32	165,50	155,67	7,916	7,953	8,009	8,102
33	165,00	130,9033	172,33	170,50	160,66	7,916	7,954	8,010	8,104
34	170,00	134,8701	177,33	175,50	165,66	7,917	7,954	8,011	8,105
35	175,00	138,8368	182,33	180,50	170,65	7,917	7,955	8,012	8,106
36	180,00	142,8036	187,33	185,50	175,65	7,917	7,955	8,012	8,107
37	185,00	146,7704	192,33	190,50	180,64	7,918	7,956	8,013	8,108
38	190,00	150,7371	197,33	195,50	185,64	7,918	7,956	8,014	8,109
39	195,00	154,7039	202,33	200,50	190,64	7,918	7,957	8,014	8,111
40	200,00	158,6707	207,34	205,50	195,63	7,918	7,957	8,015	8,112
41	205,00	162,6374	212,34	210,50	200,63	7,919	7,957	8,016	8,113
42	210,00	166,6042	217,34	215,50	205,63	7,919	7,958	8,016	8,114
43	215,00	170,5710	222,34	220,50	210,62	7,919	7,958	8,017	8,115
44	220,00	174,5377	227,34	225,50	215,62	7,919	7,959	8,018	8,116
45	225,00	178,5045	232,34	230,50	220,62	7,920	7,959	8,018	8,117
46	230,00	182,4713	237,34	235,50	225,61	7,920	7,960	8,019	8,118
47	235,00	186,4380	242,35	240,50	230,61	7,920	7,960	8,020	8,119
48	240,00	190,4048	247,35	245,50	235,61	7,920	7,960	8,020	8,120
49	245,00	194,3716	252,35	250,50	240,61	7,921	7,961	8,021	8,121
50	250,00	198,3383	257,35	255,50	245,61	7,921	7,961	8,021	8,122
51	255,00	202,3051	262,35	260,50	250,60	7,921	7,961	8,022	8,123
52	260,00	206,2719	267,35	265,50	255,60	7,921	7,962	8,023	8,124
53	265,00	210,2386	272,35	270,50	260,60	7,922	7,962	8,023	8,125
54	270,00	214,2054	277,35	275,50	265,60	7,922	7,963	8,024	8,126
55	275,00	218,1722	282,36	280,50	270,60	7,922	7,963	8,024	8,126
56	280,00	222,1389	287,36	285,50	275,59	7,922	7,963	8,025	8,127
57	285,00	226,1057	292,36	290,50	280,59	7,923	7,964	8,025	8,128
58	290,00	230,0725	297,36	295,50	285,59	7,923	7,964	8,026	8,129
59	295,00	234,0392	302,36	300,50	290,59	7,923	7,964	8,027	8,130
60	300,00	238,0060	307,36	305,50	295,59	7,923	7,965	8,027	8,131
61	305,00	241,9728	312,36	310,50	300,59	7,923	7,965	8,028	8,132
62	310,00	245,9395	317,36	315,50	305,58	7,924	7,965	8,028	8,133
63	315,00	249,9063	322,36	320,50	310,58	7,924	7,966	8,029	8,133
64	320,00	253,8731	327,37	325,50	315,58	7,924	7,966	8,029	8,134
65	325,00	257,8398	332,37	330,50	320,58	7,924	7,966	8,030	8,135
66	330,00	261,8066	337,37	335,50	325,58	7,924	7,967	8,030	8,136
67	335,00	265,7734	342,37	340,50	330,58	7,925	7,967	8,031	8,137
68	340,00	269,7401	347,37	345,50	335,58	7,925	7,967	8,031	8,138
69	345,00	273,7069	352,37	350,50	340,58	7,925	7,968	8,032	8,138
70	350,00	277,6737	357,37	355,50	345,57	7,925	7,968	8,032	8,139
71	355,00	281,6404	362,37	360,50	350,57	7,926	7,968	8,033	8,140
72	360,00	285,6072	367,37	365,50	355,57	7,926	7,969	8,033	8,141
73	365,00	289,5740	372,37	370,50	360,57	7,926	7,969	8,034	8,142
74	370,00	293,5407	377,38	375,50	365,57	7,926	7,969	8,034	8,142
75	375,00	297,5075	382,38	380,50	370,57	7,926	7,970	8,035	8,143
76	380,00	301,4743	387,38	385,50	375,57	7,926	7,970	8,035	8,144
77	385,00	305,4410	392,38	390,50	380,57	7,927	7,970	8,036	8,145
78	390,00	309,4078	397,38	395,50	385,57	7,927	7,971	8,036	8,145
79	395,00	313,3746	402,38	400,50	390,57	7,927	7,971	8,037	8,146
80	400,00	317,3413	407,38	405,50	395,57	7,927	7,971	8,037	8,147
81	405,00	321,3081	412,38	410,50	400,56	7,927	7,972	8,038	8,148
82	410,00	325,2749	417,38	415,50	405,56	7,928	7,972	8,038	8,148
83	415,00	329,2416	422,38	420,50	410,56	7,928	7,972	8,039	8,149
84	420,00	333,2084	427,39	425,50	415,56	7,928	7,972	8,039	8,150
85	425,00	337,1752	432,39	430,50	420,56	7,928	7,973	8,039	8,151
86	430,00	341,1419	437,39	435,50	425,56	7,928	7,973	8,040	8,151
87	435,00	345,1087	442,39	440,50	430,56	7,929	7,973	8,040	8,152
88	440,00	349,0755	447,39	445,50	435,56	7,929	7,974	8,041	8,153
89	445,00	353,0422	452,39	450,50	440,56	7,929	7,974	8,041	8,154
90	450,00	357,0090	457,39	455,50	445,56	7,929	7,974	8,042	8,154
91	455,00	360,9758	462,39	460,50	450,56	7,929	7,974	8,042	8,155
92	460,00	364,9425	467,39	465,50	455,56	7,929	7,975	8,043	8,156
93	465,00	368,9093	472,39	470,50	460,56	7,930	7,975	8,043	8,156
94	470,00	372,8761	477,40	475,50	465,56	7,930	7,975	8,043	8,157
95	475,00	376,8428	482,40	480,50	470,55	7,930	7,976	8,044	8,158
96	480,00	380,8096	487,40	485,50	475,55	7,930	7,976	8,044	8,159
97	485,00	384,7764	492,40	490,50	480,55	7,930	7,976	8,045	8,159
98	490,00	388,7431	497,40	495,50	485,55	7,930	7,976	8,045	8,160
99	495,00	392,7099	502,40	500,50	490,55	7,931	7,977	8,046	8,161
100	500,00	396,6767	507,40	505,50	495,55	7,931	7,977	8,046	8,161

Table 98 — Geometry external spline, $\alpha = 37{,}5°$, $m = 5$, fillet root, $S_{v\,max} = 7{,}854$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	30,00	23,8006	34,50	25,53	22,74	7,804	7,773	7,728	7,652
7	35,00	27,7674	39,50	30,36	27,73	7,803	7,772	7,726	7,649
8	40,00	31,7341	44,50	35,24	32,73	7,802	7,771	7,724	7,646
9	45,00	35,7009	49,50	40,15	37,73	7,801	7,770	7,723	7,644
10	50,00	39,6677	54,50	45,07	42,72	7,801	7,769	7,721	7,641
11	55,00	43,6344	59,50	50,02	47,72	7,800	7,768	7,720	7,639
12	60,00	47,6012	64,50	54,97	52,72	7,800	7,767	7,718	7,637
13	65,00	51,5680	69,50	59,93	57,71	7,799	7,766	7,717	7,635
14	70,00	55,5347	74,50	64,90	62,71	7,799	7,765	7,716	7,633
15	75,00	59,5015	79,50	69,87	67,71	7,798	7,765	7,714	7,631
16	80,00	63,4683	84,50	74,84	72,71	7,798	7,764	7,713	7,629
17	85,00	67,4350	89,50	79,82	77,70	7,797	7,763	7,712	7,627
18	90,00	71,4018	94,50	84,80	82,70	7,797	7,763	7,711	7,625
19	95,00	75,3686	99,50	89,79	87,70	7,796	7,762	7,710	7,624
20	100,00	79,3353	104,50	94,77	92,70	7,796	7,761	7,709	7,622
21	105,00	83,3021	109,50	99,76	97,70	7,796	7,761	7,708	7,621
22	110,00	87,2689	114,50	104,75	102,69	7,795	7,760	7,707	7,619
23	115,00	91,2356	119,50	109,73	107,69	7,795	7,759	7,706	7,617
24	120,00	95,2024	124,50	114,72	112,69	7,795	7,759	7,705	7,616
25	125,00	99,1692	129,50	119,71	117,69	7,794	7,758	7,704	7,615
26	130,00	103,1359	134,50	124,71	122,69	7,794	7,758	7,704	7,613
27	135,00	107,1027	139,50	129,70	127,68	7,793	7,757	7,703	7,612
28	140,00	111,0695	144,50	134,69	132,68	7,793	7,757	7,702	7,611
29	145,00	115,0362	149,50	139,68	137,68	7,793	7,756	7,701	7,609
30	150,00	119,0030	154,50	144,68	142,68	7,792	7,756	7,700	7,608
31	155,00	122,9698	159,50	149,67	147,68	7,792	7,755	7,699	7,607
32	160,00	126,9365	164,50	154,67	152,68	7,792	7,755	7,699	7,606
33	165,00	130,9033	169,50	159,66	157,67	7,792	7,754	7,698	7,604
34	170,00	134,8701	174,50	164,66	162,67	7,791	7,754	7,697	7,603
35	175,00	138,8368	179,50	169,65	167,67	7,791	7,753	7,696	7,602
36	180,00	142,8036	184,50	174,65	172,67	7,791	7,753	7,696	7,601
37	185,00	146,7704	189,50	179,64	177,67	7,790	7,752	7,695	7,600
38	190,00	150,7371	194,50	184,64	182,67	7,790	7,752	7,694	7,599
39	195,00	154,7039	199,50	189,64	187,67	7,790	7,751	7,694	7,597
40	200,00	158,6707	204,50	194,63	192,66	7,790	7,751	7,693	7,596
41	205,00	162,6374	209,50	199,63	197,66	7,789	7,751	7,692	7,595
42	210,00	166,6042	214,50	204,63	202,66	7,789	7,750	7,692	7,594
43	215,00	170,5710	219,50	209,62	207,66	7,789	7,750	7,691	7,593
44	220,00	174,5377	224,50	214,62	212,66	7,789	7,749	7,690	7,592
45	225,00	178,5045	229,50	219,62	217,66	7,788	7,749	7,690	7,591
46	230,00	182,4713	234,50	224,61	222,66	7,788	7,748	7,689	7,590
47	235,00	186,4380	239,50	229,61	227,65	7,788	7,748	7,688	7,589
48	240,00	190,4048	244,50	234,61	232,65	7,788	7,748	7,688	7,588
49	245,00	194,3716	249,50	239,61	237,65	7,787	7,747	7,687	7,587
50	250,00	198,3383	254,50	244,61	242,65	7,787	7,747	7,687	7,586
51	255,00	202,3051	259,50	249,60	247,65	7,787	7,747	7,686	7,585
52	260,00	206,2719	264,50	254,60	252,65	7,787	7,746	7,685	7,584
53	265,00	210,2386	269,50	259,60	257,65	7,786	7,746	7,685	7,583
54	270,00	214,2054	274,50	264,60	262,65	7,786	7,745	7,684	7,582
55	275,00	218,1722	279,50	269,60	267,64	7,786	7,745	7,684	7,582
56	280,00	222,1389	284,50	274,59	272,64	7,786	7,745	7,683	7,581
57	285,00	226,1057	289,50	279,59	277,64	7,785	7,744	7,683	7,580
58	290,00	230,0725	294,50	284,59	282,64	7,785	7,744	7,682	7,579
59	295,00	234,0392	299,50	289,59	287,64	7,785	7,744	7,681	7,578
60	300,00	238,0060	304,50	294,59	292,64	7,785	7,743	7,681	7,577
61	305,00	241,9728	309,50	299,59	297,64	7,785	7,743	7,680	7,576
62	310,00	245,9395	314,50	304,58	302,64	7,784	7,743	7,680	7,575
63	315,00	249,9063	319,50	309,58	307,64	7,784	7,742	7,679	7,575
64	320,00	253,8731	324,50	314,58	312,63	7,784	7,742	7,679	7,574
65	325,00	257,8398	329,50	319,58	317,63	7,784	7,742	7,678	7,573
66	330,00	261,8066	334,50	324,58	322,63	7,784	7,741	7,678	7,572
67	335,00	265,7734	339,50	329,58	327,63	7,783	7,741	7,677	7,571
68	340,00	269,7401	344,50	334,58	332,63	7,783	7,741	7,677	7,570
69	345,00	273,7069	349,50	339,58	337,63	7,783	7,740	7,676	7,570
70	350,00	277,6737	354,50	344,57	342,63	7,783	7,740	7,676	7,569
71	355,00	281,6404	359,50	349,57	347,63	7,782	7,740	7,675	7,568
72	360,00	285,6072	364,50	354,57	352,63	7,782	7,739	7,675	7,567
73	365,00	289,5740	369,50	359,57	357,63	7,782	7,739	7,674	7,566
74	370,00	293,5407	374,50	364,57	362,62	7,782	7,739	7,674	7,566
75	375,00	297,5075	379,50	369,57	367,62	7,782	7,738	7,673	7,565
76	380,00	301,4743	384,50	374,57	372,62	7,782	7,738	7,673	7,564
77	385,00	305,4410	389,50	379,57	377,62	7,781	7,738	7,672	7,563
78	390,00	309,4078	394,50	384,57	382,62	7,781	7,737	7,672	7,563
79	395,00	313,3746	399,50	389,57	387,62	7,781	7,737	7,671	7,562
80	400,00	317,3413	404,50	394,57	392,62	7,781	7,737	7,671	7,561
81	405,00	321,3081	409,50	399,56	397,62	7,781	7,736	7,670	7,560
82	410,00	325,2749	414,50	404,56	402,62	7,780	7,736	7,670	7,560
83	415,00	329,2416	419,50	409,56	407,62	7,780	7,736	7,669	7,559
84	420,00	333,2084	424,50	414,56	412,61	7,780	7,736	7,669	7,558
85	425,00	337,1752	429,50	419,56	417,61	7,780	7,735	7,669	7,557
86	430,00	341,1419	434,50	424,56	422,61	7,780	7,735	7,668	7,557
87	435,00	345,1087	439,50	429,56	427,61	7,779	7,735	7,668	7,556
88	440,00	349,0755	444,50	434,56	432,61	7,779	7,734	7,667	7,555
89	445,00	353,0422	449,50	439,56	437,61	7,779	7,734	7,667	7,554
90	450,00	357,0090	454,50	444,56	442,61	7,779	7,734	7,666	7,554
91	455,00	360,9758	459,50	449,56	447,61	7,779	7,734	7,666	7,553
92	460,00	364,9425	464,50	454,56	452,61	7,779	7,733	7,665	7,552
93	465,00	368,9093	469,50	459,56	457,61	7,778	7,733	7,665	7,552
94	470,00	372,8761	474,50	464,56	462,60	7,778	7,733	7,665	7,551
95	475,00	376,8428	479,50	469,55	467,60	7,778	7,732	7,664	7,550
96	480,00	380,8096	484,50	474,55	472,60	7,778	7,732	7,664	7,549
97	485,00	384,7764	489,50	479,55	477,60	7,778	7,732	7,663	7,549
98	490,00	388,7431	494,50	484,55	482,60	7,778	7,732	7,663	7,548
99	495,00	392,7099	499,50	489,55	487,60	7,777	7,731	7,662	7,547
100	500,00	396,6767	504,50	494,55	492,60	7,777	7,731	7,662	7,547

Table 99 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 5$, $E_{v\,min} = 7{,}854$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	8,50	17,044	17,113	17,063	17,178	17,091	17,273	17,135	17,426	2,001
7	9,00	19,708	19,782	19,729	19,851	19,760	19,953	19,808	20,117	2,101
8	9,00	25,715	25,778	25,733	25,838	25,760	25,927	25,802	26,073	1,863
9	9,00	30,259	30,315	30,275	30,370	30,300	30,452	30,338	30,586	1,700
10	9,00	35,962	36,016	35,979	36,070	36,003	36,150	36,040	36,281	1,645
11	9,00	40,524	40,575	40,540	40,627	40,563	40,704	40,599	40,831	1,574
12	9,50	44,564	44,617	44,581	44,672	44,606	44,753	44,644	44,887	1,640
13	9,50	49,201	49,253	49,218	49,305	49,242	49,384	49,280	49,515	1,583
14	9,50	54,687	54,737	54,703	54,789	54,728	54,868	54,766	54,998	1,560
15	9,50	59,351	59,401	59,368	59,452	59,392	59,529	59,430	59,657	1,525
16	9,50	64,767	64,816	64,784	64,868	64,808	64,945	64,846	65,072	1,511
17	9,50	69,460	69,508	69,477	69,559	69,501	69,635	69,539	69,762	1,487
18	9,50	74,825	74,872	74,842	74,923	74,866	75,000	74,904	75,127	1,478
19	9,50	79,543	79,590	79,560	79,640	79,584	79,716	79,623	79,843	1,460
20	9,50	84,868	84,915	84,885	84,966	84,910	85,042	84,949	85,168	1,454
21	9,50	89,608	89,654	89,625	89,705	89,650	89,781	89,689	89,907	1,440
22	9,50	94,902	94,948	94,920	94,999	94,945	95,075	94,984	95,202	1,436
23	9,50	99,661	99,707	99,679	99,757	99,704	99,833	99,743	99,960	1,425
24	9,50	104,929	104,974	104,947	105,025	104,973	105,102	105,012	105,229	1,422
25	9,50	109,705	109,750	109,723	109,801	109,749	109,877	109,789	110,004	1,413
26	9,50	114,952	114,996	114,970	115,047	114,996	115,124	115,036	115,252	1,410
27	9,50	119,743	119,787	119,761	119,838	119,787	119,915	119,827	120,042	1,403
28	10,00	123,577	123,622	123,596	123,674	123,623	123,752	123,664	123,882	1,421
29	10,00	128,386	128,430	128,404	128,482	128,431	128,560	128,473	128,690	1,414
30	10,00	133,599	133,644	133,618	133,696	133,646	133,774	133,688	133,904	1,411
31	10,00	138,419	138,462	138,438	138,515	138,465	138,593	138,507	138,723	1,405
32	10,00	143,618	143,662	143,638	143,715	143,665	143,793	143,708	143,924	1,403
33	10,00	148,447	148,491	148,467	148,543	148,495	148,622	148,537	148,753	1,397
34	10,00	153,635	153,678	153,655	153,731	153,683	153,810	153,726	153,941	1,395
35	10,00	158,473	158,516	158,492	158,568	158,521	158,648	158,564	158,779	1,391
36	10,00	163,650	163,692	163,670	163,745	163,698	163,825	163,742	163,957	1,389
37	10,00	168,495	168,538	168,515	168,591	168,544	168,670	168,588	168,803	1,385
38	10,00	173,662	173,705	173,683	173,758	173,712	173,838	173,756	173,971	1,384
39	10,00	178,515	178,558	178,536	178,611	178,565	178,691	178,610	178,824	1,380
40	10,00	183,674	183,716	183,695	183,770	183,724	183,850	183,769	183,983	1,379
41	10,00	188,534	188,576	188,554	188,629	188,584	188,709	188,629	188,843	1,376
42	10,00	193,684	193,726	193,705	193,780	193,735	193,860	193,781	193,994	1,375
43	10,00	198,550	198,592	198,571	198,645	198,601	198,726	198,647	198,860	1,372
44	10,00	203,694	203,735	203,715	203,789	203,745	203,870	203,791	204,005	1,371
45	10,00	208,565	208,606	208,586	208,660	208,617	208,742	208,663	208,876	1,368
46	10,00	213,702	213,744	213,724	213,798	213,754	213,879	213,801	214,015	1,368
47	10,00	218,579	218,620	218,600	218,674	218,631	218,756	218,678	218,891	1,365
48	10,00	223,710	223,751	223,732	223,806	223,763	223,887	223,810	224,024	1,365
49	10,00	228,591	228,632	228,613	228,687	228,644	228,769	228,692	228,905	1,362
50	10,00	233,717	233,758	233,739	233,813	233,771	233,895	233,819	234,032	1,362
51	10,00	238,603	238,643	238,625	238,698	238,657	238,781	238,705	238,918	1,360
52	10,00	243,724	243,765	243,746	243,820	243,778	243,902	243,827	244,040	1,359
53	10,00	248,614	248,654	248,636	248,709	248,668	248,792	248,717	248,930	1,357
54	10,00	253,730	253,771	253,753	253,826	253,785	253,909	253,834	254,047	1,357
55	10,00	258,624	258,664	258,646	258,719	258,679	258,802	258,728	258,941	1,355
56	10,00	263,736	263,776	263,759	263,832	263,792	263,915	263,841	264,054	1,355
57	10,00	268,633	268,673	268,656	268,729	268,689	268,812	268,739	268,951	1,353
58	10,00	273,741	273,781	273,765	273,837	273,798	273,921	273,848	274,061	1,353
59	10,00	278,642	278,681	278,665	278,737	278,698	278,821	278,749	278,961	1,351
60	10,00	283,746	283,786	283,770	283,842	283,803	283,926	283,854	284,067	1,351
61	10,00	288,650	288,689	288,673	288,745	288,707	288,830	288,758	288,970	1,350
62	10,00	293,751	293,790	293,775	293,847	293,809	293,932	293,860	294,073	1,349
63	10,00	298,657	298,697	298,681	298,753	298,715	298,838	298,767	298,979	1,348
64	10,00	303,755	303,795	303,780	303,851	303,814	303,936	303,866	304,078	1,348
65	10,00	308,664	308,704	308,689	308,760	308,723	308,846	308,776	308,988	1,346
66	10,00	313,760	313,799	313,784	313,856	313,819	313,941	313,871	314,083	1,346
67	10,00	318,671	318,710	318,696	318,767	318,731	318,853	318,784	318,996	1,345
68	10,00	323,764	323,802	323,788	323,860	323,823	323,946	323,877	324,089	1,345
69	10,00	328,678	328,716	328,702	328,774	328,738	328,860	328,791	329,003	1,344
70	10,00	333,767	333,806	333,792	333,863	333,828	333,950	333,882	334,093	1,343
71	10,00	338,684	338,722	338,709	338,780	338,744	338,866	338,799	339,010	1,342
72	10,00	343,771	343,809	343,796	343,867	343,832	343,954	343,886	344,098	1,342
73	10,00	348,690	348,728	348,715	348,786	348,751	348,873	348,805	349,017	1,341
74	10,00	353,774	353,812	353,800	353,871	353,836	353,958	353,891	354,103	1,341
75	10,00	358,695	358,733	358,721	358,791	358,757	358,879	358,812	359,024	1,340
76	10,00	363,777	363,815	363,803	363,874	363,840	363,961	363,895	364,107	1,340
77	10,00	368,700	368,738	368,726	368,797	368,763	368,884	368,819	369,030	1,339
78	10,00	373,781	373,818	373,807	373,877	373,843	373,965	373,899	374,111	1,339
79	10,00	378,705	378,743	378,731	378,802	378,768	378,890	378,825	379,036	1,338
80	10,00	383,783	383,821	383,810	383,880	383,847	383,968	383,904	384,115	1,338
81	10,00	388,710	388,747	388,736	388,806	388,774	388,895	388,831	389,042	1,337
82	10,00	393,786	393,824	393,813	393,883	393,850	393,972	393,908	394,119	1,337
83	10,00	398,714	398,752	398,741	398,811	398,779	398,900	398,836	399,048	1,336
84	10,00	403,789	403,826	403,816	403,886	403,854	403,975	403,911	404,123	1,336
85	10,00	408,719	408,756	408,746	408,815	408,784	408,905	408,842	409,053	1,335
86	10,00	413,792	413,829	413,819	413,888	413,857	413,978	413,915	414,127	1,335
87	10,00	418,723	418,760	418,750	418,820	418,789	418,909	418,847	419,059	1,335
88	10,00	423,794	423,831	423,821	423,891	423,860	423,981	423,919	424,130	1,334
89	10,00	428,727	428,764	428,754	428,824	428,793	428,914	428,852	429,064	1,334
90	10,00	433,796	433,833	433,824	433,893	433,863	433,984	433,922	434,134	1,334
91	10,00	438,731	438,767	438,758	438,828	438,798	438,918	438,857	439,069	1,333
92	10,00	443,799	443,835	443,827	443,896	443,866	443,986	443,926	444,137	1,333
93	10,00	448,734	448,771	448,762	448,831	448,802	448,922	448,862	449,073	1,332
94	10,00	453,801	453,837	453,829	453,898	453,869	453,989	453,929	454,140	1,332
95	10,00	458,738	458,774	458,766	458,835	458,806	458,926	458,866	459,078	1,332
96	10,00	463,803	463,839	463,831	463,900	463,871	463,992	463,932	464,144	1,332
97	10,00	468,741	468,778	468,770	468,839	468,810	468,930	468,871	469,082	1,331
98	10,00	473,805	473,841	473,834	473,902	473,874	473,994	473,935	474,147	1,331
99	10,00	478,745	478,781	478,773	478,842	478,814	478,934	478,875	479,087	1,331
100	10,00	483,807	483,843	483,836	483,905	483,877	483,997	483,938	484,150	1,330

Table 100 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 5$, $S_{v\,max} = 7{,}854$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	13,20	52,806	52,837	52,776	52,829	52,731	52,816	52,656	52,796	0,995
7	12,50	55,250	55,282	55,219	55,273	55,173	55,259	55,096	55,238	1,002
8	12,50	61,454	61,487	61,421	61,477	61,373	61,463	61,291	61,441	1,044
9	11,80	64,097	64,131	64,064	64,121	64,014	64,106	63,930	64,083	1,058
10	11,80	69,969	70,004	69,934	69,993	69,882	69,978	69,796	69,953	1,088
11	11,80	74,382	74,417	74,347	74,406	74,294	74,390	74,207	74,365	1,088
12	11,20	78,633	78,669	78,597	78,658	78,542	78,641	78,451	78,615	1,123
13	11,20	83,142	83,178	83,105	83,166	83,050	83,149	82,957	83,123	1,124
14	11,20	88,703	88,740	88,665	88,727	88,609	88,710	88,514	88,683	1,140
15	11,20	93,280	93,317	93,242	93,305	93,185	93,287	93,090	93,259	1,141
16	11,20	98,759	98,796	98,720	98,783	98,662	98,765	98,564	98,736	1,154
17	11,20	103,388	103,425	103,349	103,412	103,290	103,393	103,192	103,364	1,156
18	11,20	108,805	108,842	108,765	108,829	108,705	108,809	108,605	108,780	1,166
19	10,60	111,989	112,026	111,948	112,012	111,887	111,993	111,785	111,962	1,180
20	10,60	117,351	117,388	117,309	117,374	117,247	117,354	117,144	117,323	1,189
21	10,60	122,052	122,089	122,010	122,075	121,948	122,055	121,844	122,023	1,189
22	10,60	127,376	127,414	127,334	127,400	127,271	127,379	127,166	127,347	1,197
23	10,60	132,104	132,142	132,062	132,127	131,998	132,106	131,892	132,073	1,198
24	10,60	137,399	137,436	137,356	137,421	137,291	137,400	137,184	137,367	1,204
25	10,60	142,148	142,186	142,105	142,171	142,040	142,149	141,932	142,115	1,205
26	10,60	147,418	147,455	147,374	147,440	147,308	147,418	147,199	147,384	1,210
27	10,60	152,186	152,224	152,142	152,208	152,076	152,186	151,967	152,151	1,211
28	10,60	157,434	157,472	157,390	157,456	157,323	157,433	157,212	157,398	1,215
29	10,60	162,219	162,257	162,174	162,241	162,107	162,218	161,996	162,182	1,216
30	10,60	167,449	167,487	167,404	167,470	167,336	167,447	167,224	167,411	1,220
31	10,60	172,248	172,285	172,202	172,269	172,135	172,245	172,021	172,209	1,221
32	10,60	177,462	177,500	177,416	177,483	177,348	177,459	177,234	177,422	1,225
33	10,60	182,273	182,311	182,227	182,294	182,158	182,269	182,044	182,232	1,225
34	10,60	187,473	187,511	187,427	187,494	187,358	187,469	187,242	187,431	1,229
35	10,60	192,295	192,333	192,249	192,316	192,179	192,291	192,063	192,253	1,229
36	10,60	197,483	197,521	197,437	197,504	197,367	197,478	197,250	197,440	1,232
37	10,60	202,315	202,353	202,268	202,335	202,198	202,310	202,080	202,271	1,233
38	10,60	207,493	207,530	207,445	207,512	207,374	207,487	207,256	207,447	1,235
39	10,60	212,333	212,371	212,286	212,353	212,214	212,327	212,096	212,287	1,236
40	10,60	217,501	217,539	217,453	217,520	217,382	217,494	217,262	217,454	1,238
41	10,60	222,349	222,387	222,301	222,368	222,229	222,342	222,109	222,301	1,239
42	10,60	227,509	227,546	227,460	227,528	227,388	227,501	227,267	227,460	1,241
43	10,60	232,364	232,402	232,316	232,383	232,243	232,356	232,121	232,314	1,241
44	10,60	237,516	237,553	237,467	237,534	237,394	237,507	237,272	237,465	1,243
45	10,60	242,378	242,415	242,329	242,396	242,255	242,368	242,133	242,326	1,244
46	10,60	247,522	247,559	247,473	247,540	247,399	247,512	247,276	247,470	1,246
47	10,60	252,390	252,427	252,340	252,408	252,266	252,380	252,142	252,337	1,246
48	10,60	257,528	257,565	257,478	257,545	257,403	257,517	257,279	257,474	1,248
49	10,60	262,401	262,438	262,351	262,418	262,276	262,390	262,151	262,346	1,248
50	10,60	267,533	267,570	267,483	267,550	267,408	267,521	267,282	267,477	1,250
51	10,60	272,411	272,449	272,361	272,428	272,286	272,399	272,160	272,355	1,250
52	10,60	277,538	277,575	277,488	277,555	277,412	277,525	277,285	277,481	1,252
53	10,60	282,421	282,458	282,370	282,437	282,294	282,408	282,167	282,363	1,252
54	10,60	287,543	287,580	287,492	287,559	287,415	287,529	287,288	287,484	1,253
55	10,60	292,430	292,467	292,379	292,446	292,302	292,416	292,174	292,370	1,254
56	10,60	297,547	297,584	297,496	297,563	297,418	297,533	297,290	297,486	1,255
57	10,60	302,438	302,475	302,386	302,454	302,309	302,423	302,180	302,377	1,255
58	10,60	307,551	307,588	307,499	307,566	307,421	307,536	307,292	307,489	1,257
59	10,60	312,446	312,483	312,394	312,461	312,316	312,430	312,186	312,383	1,257
60	10,60	317,555	317,591	317,502	317,569	317,424	317,538	317,293	317,491	1,258
61	10,60	322,453	322,490	322,401	322,468	322,322	322,436	322,191	322,389	1,258
62	10,60	327,558	327,595	327,505	327,572	327,427	327,541	327,295	327,493	1,259
63	10,60	332,460	332,496	332,407	332,474	332,328	332,442	332,196	332,394	1,260
64	10,60	337,561	337,598	337,508	337,575	337,429	337,543	337,296	337,495	1,261
65	10,60	342,466	342,502	342,413	342,480	342,333	342,447	342,200	342,398	1,261
66	10,60	347,564	347,601	347,511	347,578	347,431	347,545	347,298	347,496	1,262
67	10,60	352,472	352,508	352,418	352,485	352,338	352,452	352,204	352,403	1,262
68	10,60	357,567	357,603	357,513	357,580	357,433	357,547	357,299	357,497	1,263
69	10,60	362,477	362,513	362,423	362,490	362,343	362,457	362,208	362,407	1,263
70	10,60	367,570	367,606	367,516	367,582	367,435	367,549	367,299	367,499	1,264
71	10,60	372,482	372,518	372,428	372,495	372,347	372,461	372,211	372,411	1,264
72	10,60	377,572	377,608	377,518	377,585	377,436	377,551	377,300	377,500	1,265
73	10,60	382,487	382,523	382,433	382,499	382,351	382,466	382,214	382,414	1,265
74	10,60	387,574	387,610	387,520	387,586	387,438	387,552	387,301	387,501	1,266
75	10,60	392,492	392,528	392,437	392,504	392,355	392,469	392,217	392,417	1,266
76	10,60	397,577	397,612	397,522	397,588	397,439	397,554	397,301	397,501	1,267
77	10,60	402,496	402,532	402,441	402,508	402,358	402,473	402,220	402,420	1,267
78	10,60	407,579	407,614	407,523	407,590	407,440	407,555	407,302	407,502	1,268
79	10,60	412,500	412,536	412,445	412,511	412,361	412,476	412,223	412,423	1,268
80	10,60	417,581	417,616	417,525	417,591	417,441	417,556	417,302	417,503	1,268
81	10,60	422,504	422,540	422,448	422,515	422,365	422,479	422,225	422,426	1,269
82	10,60	427,583	427,618	427,527	427,593	427,443	427,557	427,302	427,503	1,269
83	10,60	432,508	432,543	432,452	432,518	432,367	432,482	432,227	432,428	1,269
84	10,60	437,584	437,620	437,528	437,594	437,443	437,558	437,303	437,504	1,270
85	10,60	442,511	442,547	442,455	442,521	442,370	442,485	442,229	442,430	1,270
86	10,60	447,586	447,621	447,529	447,596	447,444	447,559	447,303	447,504	1,271
87	10,60	452,515	452,550	452,458	452,524	452,373	452,488	452,231	452,432	1,271
88	10,60	457,588	457,623	457,531	457,597	457,445	457,560	457,303	457,504	1,271
89	10,60	462,518	462,553	462,461	462,527	462,375	462,490	462,232	462,434	1,272
90	10,60	467,589	467,624	467,532	467,598	467,446	467,561	467,303	467,504	1,272
91	10,60	472,521	472,556	472,464	472,530	472,377	472,492	472,234	472,436	1,272
92	10,60	477,590	477,625	477,533	477,599	477,447	477,561	477,303	477,504	1,273
93	10,60	482,524	482,559	482,466	482,532	482,380	482,494	482,235	482,437	1,273
94	10,60	487,592	487,627	487,534	487,600	487,447	487,562	487,302	487,505	1,273
95	10,60	492,527	492,561	492,469	492,534	492,382	492,496	492,237	492,439	1,274
96	10,60	497,593	497,628	497,535	497,601	497,448	497,563	497,302	497,505	1,274
97	10,60	502,529	502,564	502,471	502,537	502,383	502,498	502,238	502,440	1,274
98	10,60	507,594	507,629	507,536	507,602	507,448	507,563	507,302	507,504	1,275
99	10,60	512,532	512,566	512,473	512,539	512,385	512,500	512,239	512,441	1,275
100	10,60	517,595	517,630	517,537	517,602	517,449	517,563	517,302	517,504	1,275