

Straight cylindrical involute splines — Metric module, side fit —

Part 2: Dimensions

ICS 21.120.30

National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 188, an inside back cover and a back cover.

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Straight cylindrical involute splines — Metric module, side fit —

Part 2: Dimensions

*Cannelures cylindriques droites à flancs en développante — Module
métrique, à centrage sur flancs —*

Partie 2: Dimensions



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4156-2 was prepared by Technical Committee ISO/TC 14, *Shafts for machinery and accessories*.

This first edition of ISO 4156-2, together with ISO 4156-1 and ISO 4156-3, cancels and replaces ISO 4156:1981 and ISO 4156:1981/Amd 1:1992, of which it constitutes a technical revision. The values and tables are the same as in ISO 4156:1981; however, some explanations and definitions have been clarified.

ISO 4156 consists of the following parts, under the general title *Straight cylindrical involute splines — Metric module, side fit*:

- *Part 1: Generalities*
- *Part 2: Dimensions*
- *Part 3: Inspection*

Introduction

ISO 4156 provides the data and indications necessary for the design, manufacture and inspection of straight (non-helical) side-fitting cylindrical involute splines.

Straight cylindrical involute splines manufactured in accordance with ISO 4156 are used for clearance, sliding and interference connections of shafts and hubs. They contain all the necessary characteristics for the assembly, transmission of torque, and economic production.

The nominal pressure angles are 30° , $37,5^\circ$ and 45° . For electronic data processing purposes, the form of expression $37,5^\circ$ has been adopted instead of $37^\circ 30'$. ISO 4156 establishes a specification based on the following modules:

— for pressure angles of 30° and $37,5^\circ$ the module increments are

0,5; 0,75; 1; 1,25; 1,5; 1,75; 2; 2,5; 3; 4; 5; 6; 8; 10

— for pressure angle of 45° the module increments are

0,25; 0,5; 0,75; 1; 1,25; 1,5; 1,75; 2; 2,5

Straight cylindrical involute splines — Metric module, side fit —

Part 2: Dimensions

1 Scope

This part of ISO 4156 specifies geometry and inspection dimensions for the design and manufacture of straight (non-helical) side-fitting cylindrical involute splines.

Limiting dimensions, tolerances, manufacturing errors and their effects on the fit between connecting coaxial spline elements are defined and tabulated. Linear dimensions are expressed in millimetres and angular dimensions in degrees.

The specified diameters for external splines in the geometry tables and the values in the inspection dimension tables are only valid for fundamental deviation “h”.

For fundamental deviations other than “h”, diameters and tooth thicknesses are calculated for external splines according to the formulae in ISO 4156-1 and inspection dimensions according to the formulae in ISO 4156-3.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4156-1:2005, *Straight cylindrical involute splines — Metric module, side fit — Part 1: Generalities*

ISO 4156-3:2005, *Straight cylindrical involute splines — Metric module, side fit — Part 3: Inspection*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4156-1 apply.

4 Symbols and abbreviated terms

D	Pitch diameter	mm
$D_{Fe\ max}$	Maximum form diameter, external spline	mm
$D_{Fi\ min}$	Minimum form diameter, internal spline	mm
D_{Re}	Diameter of measuring ball or pin for external spline	mm
D_{Ri}	Diameter of measuring ball or pin for internal spline	mm
D_b	Base diameter	mm
$D_{ee\ max}$	Maximum major diameter, external spline	mm
$D_{ei\ max}$	Maximum major diameter, internal spline	mm
$D_{ie\ min}$	Minimum major diameter, external spline	mm
$D_{ii\ min}$	Minimum diameter, internal spline	mm
E_{max}	Maximum actual space width	mm
E_{min}	Minimum actual space width	mm
$E_{v\ min}$	Minimum effective space width	mm
K_e	Approximation factor for external spline	—
K_i	Approximation factor for internal spline	—
M_{Re}	Measurement over two balls or pins, external spline	mm
M_{Ri}	Measurement between two balls or pins, internal spline	mm
S_{max}	Maximum actual tooth thickness	mm
S_{min}	Minimum actual tooth thickness	mm
$S_{v\ max}$	Maximum effective tooth thickness	mm
W	Measurement over k teeth, external spline	mm
z	Number of teeth	—
k	Number of measured teeth	—

5 Geometry and inspection dimensions

5.1 30° pressure angle, module 0,5

Table 1 — Geometry internal spline, $\alpha = 30^\circ$, $m = 0,5$, flat and fillet root, $E_{v \min} = 0,785$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{ii \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	3,00	2,5981	4,06	3,91	3,60	2,72	0,808	0,822	0,843	0,878
7	3,50	3,0311	4,56	4,41	4,10	3,18	0,809	0,823	0,844	0,879
8	4,00	3,4641	5,07	4,92	4,60	3,66	0,809	0,823	0,845	0,880
9	4,50	3,8971	5,57	5,42	5,10	4,14	0,809	0,824	0,845	0,881
10	5,00	4,3301	6,07	5,92	5,60	4,62	0,809	0,824	0,846	0,883
11	5,50	4,7631	6,57	6,42	6,10	5,11	0,810	0,824	0,847	0,884
12	6,00	5,1962	7,07	6,92	6,60	5,60	0,810	0,825	0,847	0,884
13	6,50	5,6292	7,57	7,42	7,10	6,09	0,810	0,825	0,848	0,885
14	7,00	6,0622	8,08	7,93	7,60	6,58	0,810	0,826	0,848	0,886
15	7,50	6,4952	8,58	8,43	8,10	7,08	0,811	0,826	0,849	0,887
16	8,00	6,9282	9,08	8,93	8,60	7,57	0,811	0,826	0,849	0,888
17	8,50	7,3612	9,58	9,43	9,10	8,07	0,811	0,826	0,850	0,889
18	9,00	7,7942	10,08	9,93	9,60	8,56	0,811	0,827	0,850	0,889
19	9,50	8,2272	10,58	10,43	10,10	9,06	0,811	0,827	0,851	0,890
20	10,00	8,6603	11,08	10,93	10,60	9,56	0,811	0,827	0,851	0,891
21	10,50	9,0933	11,58	11,43	11,10	10,05	0,812	0,828	0,851	0,891
22	11,00	9,5263	12,09	11,94	11,60	10,55	0,812	0,828	0,852	0,892
23	11,50	9,9593	12,59	12,44	12,10	11,05	0,812	0,828	0,852	0,893
24	12,00	10,3923	13,09	12,94	12,60	11,55	0,812	0,828	0,853	0,893
25	12,50	10,8253	13,59	13,44	13,10	12,05	0,812	0,829	0,853	0,894
26	13,00	11,2583	14,09	13,94	13,60	12,54	0,812	0,829	0,853	0,894
27	13,50	11,6913	14,59	14,44	14,10	13,04	0,812	0,829	0,854	0,895
28	14,00	12,1244	15,09	14,94	14,60	13,54	0,813	0,829	0,854	0,895
29	14,50	12,5574	15,59	15,44	15,10	14,04	0,813	0,829	0,854	0,896
30	15,00	12,9904	16,09	15,94	15,60	14,54	0,813	0,830	0,855	0,897
31	15,50	13,4234	16,59	16,44	16,10	15,04	0,813	0,830	0,855	0,897
32	16,00	13,8564	17,09	16,94	16,60	15,54	0,813	0,830	0,855	0,898
33	16,50	14,2894	17,60	17,45	17,10	16,03	0,813	0,830	0,856	0,898
34	17,00	14,7224	18,10	17,95	17,60	16,53	0,813	0,830	0,856	0,899
35	17,50	15,1554	18,60	18,45	18,10	17,03	0,813	0,831	0,856	0,899
36	18,00	15,5885	19,10	18,95	18,60	17,53	0,814	0,831	0,857	0,899
37	18,50	16,0215	19,60	19,45	19,10	18,03	0,814	0,831	0,857	0,900
38	19,00	16,4545	20,10	19,95	19,60	18,53	0,814	0,831	0,857	0,900
39	19,50	16,8875	20,60	20,45	20,10	19,03	0,814	0,831	0,857	0,901
40	20,00	17,3205	21,10	20,95	20,60	19,53	0,814	0,831	0,858	0,901
41	20,50	17,7535	21,60	21,45	21,10	20,03	0,814	0,832	0,858	0,902
42	21,00	18,1865	22,10	21,95	21,60	20,53	0,814	0,832	0,858	0,902
43	21,50	18,6195	22,60	22,45	22,10	21,03	0,814	0,832	0,858	0,902
44	22,00	19,0526	23,10	22,95	22,60	21,53	0,814	0,832	0,859	0,903
45	22,50	19,4856	23,60	23,45	23,10	22,02	0,815	0,832	0,859	0,903
46	23,00	19,9186	24,11	23,96	23,60	22,52	0,815	0,832	0,859	0,904
47	23,50	20,3516	24,61	24,46	24,10	23,02	0,815	0,833	0,859	0,904
48	24,00	20,7846	25,11	24,96	24,60	23,52	0,815	0,833	0,860	0,904
49	24,50	21,2176	25,61	25,46	25,10	24,02	0,815	0,833	0,860	0,905
50	25,00	21,6506	26,11	25,96	25,60	24,52	0,815	0,833	0,860	0,905
51	25,50	22,0836	26,61	26,46	26,10	25,02	0,815	0,833	0,860	0,906
52	26,00	22,5167	27,11	26,96	26,60	25,52	0,815	0,833	0,861	0,906
53	26,50	22,9497	27,61	27,46	27,10	26,02	0,815	0,834	0,861	0,906
54	27,00	23,3827	28,11	27,96	27,60	26,52	0,815	0,834	0,861	0,907
55	27,50	23,8157	28,61	28,46	28,10	27,02	0,815	0,834	0,861	0,907
56	28,00	24,2487	29,11	28,96	28,60	27,52	0,816	0,834	0,861	0,907
57	28,50	24,6817	29,61	29,46	29,10	28,02	0,816	0,834	0,862	0,908
58	29,00	25,1147	30,11	29,96	29,60	28,52	0,816	0,834	0,862	0,908
59	29,50	25,5477	30,61	30,46	30,10	29,02	0,816	0,834	0,862	0,908
60	30,00	25,9808	31,11	30,96	30,60	29,52	0,816	0,834	0,862	0,909
61	30,50	26,4138	31,61	31,46	31,10	30,02	0,816	0,835	0,863	0,909
62	31,00	26,8468	32,12	31,97	31,60	30,52	0,816	0,835	0,863	0,909
63	31,50	27,2798	32,62	32,47	32,10	31,02	0,816	0,835	0,863	0,910
64	32,00	27,7128	33,12	32,97	32,60	31,52	0,816	0,835	0,863	0,910
65	32,50	28,1458	33,62	33,47	33,10	32,02	0,816	0,835	0,863	0,910
66	33,00	28,5788	34,12	33,97	33,60	32,52	0,816	0,835	0,863	0,911
67	33,50	29,0119	34,62	34,47	34,10	33,02	0,816	0,835	0,864	0,911
68	34,00	29,4449	35,12	34,97	34,60	33,52	0,817	0,835	0,864	0,911
69	34,50	29,8779	35,62	35,47	35,10	34,02	0,817	0,836	0,864	0,912
70	35,00	30,3109	36,12	35,97	35,60	34,52	0,817	0,836	0,864	0,912
71	35,50	30,7439	36,62	36,47	36,10	35,02	0,817	0,836	0,864	0,912
72	36,00	31,1769	37,12	36,97	36,60	35,52	0,817	0,836	0,865	0,912
73	36,50	31,6099	37,62	37,47	37,10	36,02	0,817	0,836	0,865	0,913
74	37,00	32,0429	38,12	37,97	37,60	36,51	0,817	0,836	0,865	0,913
75	37,50	32,4760	38,62	38,47	38,10	37,01	0,817	0,836	0,865	0,913
76	38,00	32,9090	39,12	38,97	38,60	37,51	0,817	0,836	0,865	0,914
77	38,50	33,3420	39,62	39,47	39,10	38,01	0,817	0,837	0,866	0,914
78	39,00	33,7750	40,12	39,97	39,60	38,51	0,817	0,837	0,866	0,914
79	39,50	34,2080	40,62	40,47	40,10	39,01	0,817	0,837	0,866	0,914
80	40,00	34,6410	41,12	40,97	40,60	39,51	0,817	0,837	0,866	0,915
81	40,50	35,0740	41,63	41,48	41,10	40,01	0,817	0,837	0,866	0,915
82	41,00	35,5070	42,13	41,98	41,60	40,51	0,818	0,837	0,866	0,915
83	41,50	35,9401	42,63	42,48	42,10	41,01	0,818	0,837	0,867	0,916
84	42,00	36,3731	43,13	42,98	42,60	41,51	0,818	0,837	0,867	0,916
85	42,50	36,8061	43,63	43,48	43,10	42,01	0,818	0,837	0,867	0,916
86	43,00	37,2391	44,13	43,98	43,60	42,51	0,818	0,838	0,867	0,916
87	43,50	37,6721	44,63	44,48	44,10	43,01	0,818	0,838	0,867	0,917
88	44,00	38,1051	45,13	44,98	44,60	43,51	0,818	0,838	0,867	0,917
89	44,50	38,5381	45,63	45,48	45,10	44,01	0,818	0,838	0,868	0,917
90	45,00	38,9711	46,13	45,98	45,60	44,51	0,818	0,838	0,868	0,917
91	45,50	39,4042	46,63	46,48	46,10	45,01	0,818	0,838	0,868	0,918
92	46,00	39,8372	47,13	46,98	46,60	45,51	0,818	0,838	0,868	0,918
93	46,50	40,2702	47,63	47,48	47,10	46,01	0,818	0,838	0,868	0,918
94	47,00	40,7032	48,13	47,98	47,60	46,51	0,818	0,838	0,868	0,918
95	47,50	41,1362	48,63	48,48	48,10	47,01	0,818	0,838	0,869	0,919
96	48,00	41,5692	49,13	48,98	48,60	47,51	0,818	0,839	0,869	0,919
97	48,50	42,0022	49,63	49,48	49,10	48,01	0,819	0,839	0,869	0,919
98	49,00	42,4352	50,13	49,98	49,60	48,51	0,819	0,839	0,869	0,919
99	49,50	42,8683	50,63	50,48	50,10	49,01	0,819	0,839	0,869	0,920
100	50,00	43,3013	51,13	50,98	50,60	49,51	0,819	0,839	0,869	0,920

Table 2 — Geometry external spline, $\alpha = 30^\circ$, $m = 0,5$, flat and fillet root, $S_{v \max} = 0,785$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	3,00	2,5981	3,50	2,62	1,94	2,09	0,762	0,748	0,727	0,692
7	3,50	3,0311	4,00	3,08	2,44	2,59	0,761	0,747	0,726	0,691
8	4,00	3,4641	4,50	3,56	2,93	3,08	0,761	0,747	0,725	0,690
9	4,50	3,8971	5,00	4,04	3,43	3,58	0,761	0,746	0,725	0,689
10	5,00	4,3301	5,50	4,52	3,93	4,08	0,761	0,746	0,724	0,687
11	5,50	4,7631	6,00	5,01	4,43	4,58	0,760	0,746	0,723	0,686
12	6,00	5,1962	6,50	5,50	4,93	5,08	0,760	0,745	0,723	0,686
13	6,50	5,6292	7,00	5,99	5,43	5,58	0,760	0,745	0,722	0,685
14	7,00	6,0622	7,50	6,48	5,92	6,07	0,760	0,744	0,722	0,684
15	7,50	6,4952	8,00	6,98	6,42	6,57	0,759	0,744	0,721	0,683
16	8,00	6,9282	8,50	7,47	6,92	7,07	0,759	0,744	0,721	0,682
17	8,50	7,3612	9,00	7,97	7,42	7,57	0,759	0,744	0,720	0,681
18	9,00	7,7942	9,50	8,46	7,92	8,07	0,759	0,743	0,720	0,681
19	9,50	8,2272	10,00	8,96	8,42	8,57	0,759	0,743	0,719	0,680
20	10,00	8,6603	10,50	9,46	8,92	9,07	0,759	0,743	0,719	0,679
21	10,50	9,0933	11,00	9,95	9,42	9,57	0,758	0,742	0,719	0,679
22	11,00	9,5263	11,50	10,45	9,91	10,06	0,758	0,742	0,718	0,678
23	11,50	9,9593	12,00	10,95	10,41	10,56	0,758	0,742	0,718	0,677
24	12,00	10,3923	12,50	11,45	10,91	11,06	0,758	0,742	0,717	0,677
25	12,50	10,8253	13,00	11,95	11,41	11,56	0,758	0,741	0,717	0,676
26	13,00	11,2583	13,50	12,44	11,91	12,06	0,758	0,741	0,717	0,676
27	13,50	11,6913	14,00	12,94	12,41	12,56	0,758	0,741	0,716	0,675
28	14,00	12,1244	14,50	13,44	12,91	13,06	0,757	0,741	0,716	0,675
29	14,50	12,5574	15,00	13,94	13,41	13,56	0,757	0,741	0,716	0,674
30	15,00	12,9904	15,50	14,44	13,91	14,06	0,757	0,740	0,715	0,673
31	15,50	13,4234	16,00	14,94	14,41	14,56	0,757	0,740	0,715	0,673
32	16,00	13,8564	16,50	15,44	14,91	15,06	0,757	0,740	0,715	0,672
33	16,50	14,2894	17,00	15,93	15,40	15,55	0,757	0,740	0,714	0,672
34	17,00	14,7224	17,50	16,43	15,90	16,05	0,757	0,740	0,714	0,671
35	17,50	15,1554	18,00	16,93	16,40	16,55	0,757	0,739	0,714	0,671
36	18,00	15,5885	18,50	17,43	16,90	17,05	0,756	0,739	0,713	0,671
37	18,50	16,0215	19,00	17,93	17,40	17,55	0,756	0,739	0,713	0,670
38	19,00	16,4545	19,50	18,43	17,90	18,05	0,756	0,739	0,713	0,670
39	19,50	16,8875	20,00	18,93	18,40	18,55	0,756	0,739	0,713	0,669
40	20,00	17,3205	20,50	19,43	18,90	19,05	0,756	0,739	0,712	0,669
41	20,50	17,7535	21,00	19,93	19,40	19,55	0,756	0,738	0,712	0,668
42	21,00	18,1865	21,50	20,43	19,90	20,05	0,756	0,738	0,712	0,668
43	21,50	18,6195	22,00	20,93	20,40	20,55	0,756	0,738	0,712	0,668
44	22,00	19,0525	22,50	21,43	20,90	21,05	0,756	0,738	0,711	0,667
45	22,50	19,4855	23,00	21,92	21,40	21,55	0,755	0,738	0,711	0,667
46	23,00	19,9185	23,50	22,42	21,89	22,04	0,755	0,738	0,711	0,666
47	23,50	20,3515	24,00	22,92	22,39	22,54	0,755	0,737	0,711	0,666
48	24,00	20,7845	24,50	23,42	22,89	23,04	0,755	0,737	0,710	0,666
49	24,50	21,2175	25,00	23,92	23,39	23,54	0,755	0,737	0,710	0,665
50	25,00	21,6505	25,50	24,42	23,89	24,04	0,755	0,737	0,710	0,665
51	25,50	22,0835	26,00	24,92	24,39	24,54	0,755	0,737	0,710	0,664
52	26,00	22,5165	26,50	25,42	24,89	25,04	0,755	0,737	0,709	0,664
53	26,50	22,9495	27,00	25,92	25,39	25,54	0,755	0,736	0,709	0,664
54	27,00	23,3825	27,50	26,42	25,89	26,04	0,755	0,736	0,709	0,663
55	27,50	23,8155	28,00	26,92	26,39	26,54	0,755	0,736	0,709	0,663
56	28,00	24,2485	28,50	27,42	26,89	27,04	0,754	0,736	0,709	0,663
57	28,50	24,6815	29,00	27,92	27,39	27,54	0,754	0,736	0,708	0,662
58	29,00	25,1145	29,50	28,42	27,89	28,04	0,754	0,736	0,708	0,662
59	29,50	25,5475	30,00	28,92	28,39	28,54	0,754	0,736	0,708	0,662
60	30,00	25,9805	30,50	29,42	28,89	29,04	0,754	0,736	0,708	0,661
61	30,50	26,4135	31,00	29,92	29,39	29,54	0,754	0,735	0,707	0,661
62	31,00	26,8465	31,50	30,42	29,89	30,03	0,754	0,735	0,707	0,661
63	31,50	27,2795	32,00	30,92	30,38	30,53	0,754	0,735	0,707	0,660
64	32,00	27,7125	32,50	31,42	30,88	31,03	0,754	0,735	0,707	0,660
65	32,50	28,1455	33,00	31,92	31,38	31,53	0,754	0,735	0,707	0,660
66	33,00	28,5785	33,50	32,42	31,88	32,03	0,754	0,735	0,707	0,659
67	33,50	29,0115	34,00	32,92	32,38	32,53	0,754	0,735	0,706	0,659
68	34,00	29,4445	34,50	33,42	32,88	33,03	0,753	0,735	0,706	0,659
69	34,50	29,8775	35,00	33,92	33,38	33,53	0,753	0,734	0,706	0,658
70	35,00	30,3105	35,50	34,42	33,88	34,03	0,753	0,734	0,706	0,658
71	35,50	30,7435	36,00	34,92	34,38	34,53	0,753	0,734	0,706	0,658
72	36,00	31,1765	36,50	35,42	34,88	35,03	0,753	0,734	0,705	0,658
73	36,50	31,6095	37,00	35,92	35,38	35,53	0,753	0,734	0,705	0,657
74	37,00	32,0425	37,50	36,41	35,88	36,03	0,753	0,734	0,705	0,657
75	37,50	32,4755	38,00	36,91	36,38	36,53	0,753	0,734	0,705	0,657
76	38,00	32,9085	38,50	37,41	36,88	37,03	0,753	0,734	0,705	0,656
77	38,50	33,3420	39,00	37,91	37,38	37,53	0,753	0,733	0,704	0,656
78	39,00	33,7750	39,50	38,41	37,88	38,03	0,753	0,733	0,704	0,656
79	39,50	34,2080	40,00	38,91	38,38	38,53	0,753	0,733	0,704	0,656
80	40,00	34,6410	40,50	39,41	38,88	39,03	0,753	0,733	0,704	0,655
81	40,50	35,0740	41,00	39,91	39,37	39,52	0,753	0,733	0,704	0,655
82	41,00	35,5070	41,50	40,41	39,87	40,02	0,752	0,733	0,704	0,655
83	41,50	35,9401	42,00	40,91	40,37	40,52	0,752	0,733	0,703	0,654
84	42,00	36,3731	42,50	41,41	40,87	41,02	0,752	0,733	0,703	0,654
85	42,50	36,8061	43,00	41,91	41,37	41,52	0,752	0,733	0,703	0,654
86	43,00	37,2391	43,50	42,41	41,87	42,02	0,752	0,732	0,703	0,654
87	43,50	37,6721	44,00	42,91	42,37	42,52	0,752	0,732	0,703	0,653
88	44,00	38,1051	44,50	43,41	42,87	43,02	0,752	0,732	0,703	0,653
89	44,50	38,5381	45,00	43,91	43,37	43,52	0,752	0,732	0,702	0,653
90	45,00	38,9711	45,50	44,41	43,87	44,02	0,752	0,732	0,702	0,653
91	45,50	39,4042	46,00	44,91	44,37	44,52	0,752	0,732	0,702	0,652
92	46,00	39,8372	46,50	45,41	44,87	45,02	0,752	0,732	0,702	0,652
93	46,50	40,2702	47,00	45,91	45,37	45,52	0,752	0,732	0,702	0,652
94	47,00	40,7032	47,50	46,41	45,87	46,02	0,752	0,732	0,702	0,652
95	47,50	41,1362	48,00	46,91	46,37	46,52	0,752	0,732	0,701	0,651
96	48,00	41,5692	48,50	47,41	46,87	47,02	0,752	0,731	0,701	0,651
97	48,50	42,0022	49,00	47,91	47,37	47,52	0,751	0,731	0,701	0,651
98	49,00	42,4352	49,50	48,41	47,87	48,02	0,751	0,731	0,701	0,651
99	49,50	42,8683	50,00	48,91	48,37	48,52	0,751	0,731	0,701	0,650
100	50,00	43,3013	50,50	49,41	48,87	49,02	0,751	0,731	0,701	0,650

Table 3 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 0,5$, flat or fillet root, $E_{v \min} = 0,785$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	0,85	2,752	2,791	2,767	2,830	2,788	2,882	2,821	2,960	2,079
9	0,85	3,207	3,241	3,220	3,276	3,239	3,324	3,268	3,399	1,987
10	0,85	3,780	3,813	3,793	3,846	3,810	3,894	3,838	3,969	1,974
11	0,85	4,235	4,266	4,247	4,298	4,264	4,344	4,291	4,418	1,922
12	0,85	4,793	4,823	4,805	4,855	4,821	4,901	4,848	4,975	1,917
13	0,90	5,071	5,104	5,084	5,139	5,102	5,189	5,131	5,268	2,031
14	0,90	5,623	5,655	5,636	5,689	5,653	5,739	5,682	5,817	2,011
15	0,90	6,091	6,122	6,103	6,155	6,120	6,203	6,148	6,281	1,972
16	0,90	6,634	6,665	6,646	6,698	6,663	6,746	6,691	6,823	1,960
17	0,90	7,104	7,134	7,116	7,166	7,133	7,214	7,160	7,291	1,932
18	0,90	7,642	7,672	7,654	7,704	7,670	7,751	7,697	7,828	1,924
19	0,90	8,114	8,143	8,126	8,175	8,142	8,222	8,169	8,299	1,904
20	0,90	8,648	8,677	8,659	8,709	8,676	8,756	8,702	8,832	1,898
21	0,90	9,122	9,151	9,134	9,182	9,150	9,229	9,176	9,305	1,882
22	0,90	9,652	9,681	9,664	9,712	9,680	9,759	9,707	9,836	1,878
23	0,90	10,128	10,157	10,140	10,188	10,156	10,235	10,183	10,311	1,865
24	0,90	10,656	10,684	10,667	10,716	10,684	10,762	10,710	10,839	1,862
25	0,90	11,133	11,161	11,145	11,193	11,161	11,240	11,188	11,316	1,852
26	0,90	11,659	11,687	11,670	11,718	11,687	11,765	11,713	11,842	1,849
27	0,90	12,138	12,166	12,149	12,197	12,166	12,244	12,192	12,321	1,841
28	0,90	12,661	12,689	12,673	12,721	12,689	12,768	12,716	12,844	1,839
29	0,90	13,142	13,169	13,153	13,201	13,170	13,248	13,196	13,325	1,831
30	0,90	13,663	13,691	13,675	13,723	13,692	13,770	13,718	13,847	1,830
31	0,90	14,145	14,172	14,157	14,204	14,173	14,251	14,200	14,329	1,823
32	0,90	14,665	14,693	14,677	14,724	14,694	14,772	14,720	14,849	1,822
33	0,90	15,148	15,175	15,160	15,207	15,176	15,254	15,203	15,332	1,817
34	0,90	15,667	15,694	15,679	15,726	15,695	15,773	15,722	15,851	1,815
35	0,90	16,150	16,178	16,162	16,210	16,179	16,257	16,206	16,335	1,811
36	0,90	16,668	16,696	16,680	16,728	16,697	16,775	16,724	16,853	1,810
37	0,90	17,153	17,180	17,165	17,212	17,182	17,260	17,209	17,338	1,805
38	0,90	17,670	17,697	17,682	17,729	17,699	17,777	17,726	17,855	1,805
39	0,90	18,155	18,182	18,167	18,214	18,184	18,262	18,211	18,341	1,801
40	0,90	18,671	18,698	18,683	18,730	18,700	18,778	18,727	18,857	1,800
41	0,90	19,157	19,184	19,169	19,216	19,186	19,264	19,213	19,343	1,797
42	0,90	19,672	19,699	19,684	19,731	19,701	19,779	19,729	19,859	1,796
43	0,90	20,159	20,186	20,171	20,218	20,188	20,266	20,215	20,346	1,793
44	0,90	20,673	20,700	20,685	20,732	20,703	20,781	20,730	20,861	1,793
45	0,90	21,160	21,187	21,172	21,220	21,190	21,268	21,217	21,348	1,790
46	0,90	21,674	21,701	21,686	21,734	21,704	21,782	21,732	21,862	1,789
47	0,90	22,162	22,188	22,174	22,221	22,192	22,270	22,219	22,350	1,787
48	0,90	22,675	22,702	22,687	22,734	22,705	22,783	22,733	22,864	1,786
49	0,90	23,163	23,190	23,176	23,223	23,193	23,271	23,221	23,352	1,784
50	0,90	23,676	23,703	23,688	23,735	23,706	23,784	23,734	23,865	1,784
51	0,90	24,164	24,191	24,177	24,224	24,195	24,273	24,223	24,354	1,782
52	0,90	24,677	24,703	24,689	24,736	24,707	24,785	24,735	24,867	1,781
53	0,90	25,166	25,192	25,178	25,225	25,196	25,274	25,224	25,356	1,779
54	0,90	25,677	25,704	25,690	25,737	25,708	25,786	25,736	25,868	1,779
55	0,90	26,167	26,193	26,179	26,226	26,197	26,276	26,226	26,358	1,777
56	0,90	26,678	26,705	26,691	26,738	26,709	26,787	26,738	26,869	1,777
57	0,90	27,168	27,194	27,181	27,228	27,199	27,277	27,227	27,359	1,775
58	0,90	27,679	27,705	27,692	27,739	27,710	27,788	27,739	27,871	1,775
59	0,90	28,169	28,195	28,182	28,229	28,200	28,279	28,229	28,361	1,774
60	0,90	28,679	28,706	28,692	28,739	28,711	28,789	28,740	28,872	1,773
61	0,90	29,170	29,196	29,183	29,230	29,201	29,280	29,230	29,362	1,772
62	0,90	29,680	29,707	29,693	29,740	29,712	29,790	29,741	29,873	1,772
63	0,90	30,171	30,197	30,184	30,231	30,202	30,281	30,231	30,364	1,770
64	0,90	30,681	30,707	30,694	30,741	30,712	30,791	30,742	30,874	1,770
65	0,90	31,171	31,198	31,185	31,232	31,203	31,282	31,233	31,366	1,769
66	0,90	31,681	31,708	31,694	31,741	31,713	31,792	31,743	31,876	1,769
67	0,90	32,172	32,199	32,186	32,233	32,204	32,283	32,234	32,367	1,768
68	0,90	32,682	32,708	32,695	32,742	32,714	32,793	32,744	32,877	1,768
69	0,90	33,173	33,199	33,186	33,233	33,205	33,284	33,235	33,368	1,766
70	0,90	33,682	33,709	33,696	33,743	33,715	33,794	33,744	33,878	1,766
71	0,90	34,174	34,200	34,187	34,234	34,206	34,285	34,236	34,370	1,765
72	0,90	34,683	34,709	34,696	34,743	34,715	34,794	34,745	34,879	1,765
73	0,90	35,175	35,201	35,188	35,235	35,207	35,286	35,237	35,371	1,764
74	0,90	35,683	35,709	35,697	35,744	35,716	35,795	35,746	35,880	1,764
75	0,90	36,175	36,202	36,189	36,236	36,208	36,287	36,238	36,372	1,763
76	0,90	36,684	36,710	36,697	36,744	36,717	36,796	36,747	36,881	1,763
77	0,90	37,176	37,202	37,190	37,237	37,209	37,288	37,240	37,374	1,762
78	0,90	37,684	37,710	37,698	37,745	37,717	37,797	37,748	37,882	1,762
79	0,90	38,177	38,203	38,190	38,237	38,210	38,289	38,241	38,375	1,761
80	0,90	38,684	38,711	38,698	38,745	38,718	38,797	38,749	38,883	1,761
81	0,90	39,177	39,203	39,191	39,238	39,211	39,290	39,242	39,376	1,760
82	0,90	39,685	39,711	39,699	39,746	39,719	39,798	39,750	39,884	1,760
83	0,90	40,178	40,204	40,192	40,239	40,212	40,291	40,243	40,377	1,760
84	0,90	40,685	40,711	40,699	40,746	40,719	40,799	40,750	40,885	1,759
85	0,90	41,178	41,204	41,192	41,239	41,212	41,292	41,244	41,379	1,759
86	0,90	41,686	41,712	41,700	41,747	41,720	41,799	41,751	41,886	1,759
87	0,90	42,179	42,205	42,193	42,240	42,213	42,293	42,244	42,380	1,758
88	0,90	42,686	42,712	42,700	42,747	42,720	42,800	42,752	42,887	1,758
89	0,90	43,179	43,206	43,194	43,241	43,214	43,293	43,245	43,381	1,757
90	0,90	43,686	43,713	43,701	43,748	43,721	43,801	43,753	43,888	1,757
91	0,90	44,180	44,206	44,194	44,241	44,215	44,294	44,246	44,382	1,757
92	0,90	44,687	44,713	44,701	44,748	44,722	44,801	44,753	44,889	1,757
93	0,90	45,180	45,207	45,195	45,242	45,215	45,295	45,247	45,383	1,756
94	0,90	45,687	45,713	45,702	45,749	45,722	45,802	45,754	45,890	1,756
95	0,90	46,181	46,207	46,196	46,243	46,216	46,296	46,248	46,384	1,755
96	0,90	46,688	46,714	46,702	46,749	46,723	46,802	46,755	46,891	1,755
97	0,90	47,181	47,207	47,196	47,243	47,217	47,296	47,249	47,385	1,755
98	0,90	47,688	47,714	47,703	47,750	47,723	47,803	47,756	47,892	1,755
99	0,90	48,182	48,208	48,197	48,244	48,217	48,297	48,250	48,386	1,754
100	0,90	48,688	48,714	48,						

Table 4 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 0,5$, flat or fillet root, $S_{v\max} = 0,785$

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	1,12	4,797	4,813	4,780	4,807	4,754	4,798	4,711	4,784	1,255
7	1,12	5,204	5,220	5,187	5,214	5,161	5,206	5,117	5,191	1,254
8	1,06	5,670	5,687	5,651	5,681	5,622	5,671	5,575	5,655	1,350
9	1,06	6,099	6,117	6,080	6,110	6,051	6,101	6,003	6,085	1,354
10	1,06	6,683	6,701	6,663	6,694	6,633	6,684	6,582	6,668	1,395
11	1,00	6,970	6,989	6,950	6,982	6,918	6,972	6,866	6,955	1,441
12	1,00	7,535	7,555	7,514	7,547	7,482	7,537	7,427	7,519	1,471
13	1,00	7,987	8,007	7,965	7,999	7,933	7,988	7,878	7,970	1,475
14	1,00	8,541	8,561	8,519	8,554	8,485	8,542	8,429	8,524	1,498
15	1,00	8,999	9,020	8,977	9,012	8,943	9,001	8,886	8,982	1,501
16	1,00	9,546	9,566	9,523	9,558	9,488	9,547	9,430	9,528	1,520
17	1,00	10,009	10,030	9,986	10,022	9,951	10,010	9,892	9,991	1,523
18	1,00	10,549	10,571	10,526	10,562	10,490	10,550	10,431	10,531	1,538
19	1,00	11,017	11,038	10,993	11,029	10,957	11,017	10,897	10,998	1,541
20	1,00	11,552	11,574	11,528	11,565	11,492	11,553	11,431	11,533	1,554
21	0,95	11,884	11,906	11,860	11,898	11,822	11,885	11,760	11,864	1,587
22	0,95	12,416	12,438	12,391	12,429	12,353	12,416	12,289	12,396	1,597
23	0,95	12,889	12,911	12,864	12,902	12,826	12,889	12,761	12,868	1,598
24	0,95	13,417	13,440	13,392	13,431	13,353	13,418	13,289	13,396	1,607
25	0,95	13,892	13,915	13,867	13,906	13,828	13,892	13,763	13,871	1,608
26	0,95	14,419	14,441	14,393	14,432	14,354	14,419	14,288	14,397	1,615
27	0,95	14,896	14,918	14,869	14,909	14,830	14,895	14,764	14,874	1,616
28	0,95	15,420	15,442	15,393	15,433	15,354	15,419	15,287	15,397	1,623
29	0,95	15,898	15,921	15,872	15,911	15,832	15,898	15,766	15,876	1,624
30	0,95	16,420	16,443	16,394	16,434	16,353	16,420	16,286	16,398	1,629
31	0,95	16,900	16,923	16,873	16,914	16,833	16,900	16,765	16,877	1,630
32	0,95	17,421	17,444	17,394	17,434	17,353	17,420	17,285	17,398	1,635
33	0,95	17,902	17,926	17,875	17,916	17,834	17,901	17,765	17,879	1,636
34	0,95	18,422	18,445	18,394	18,435	18,353	18,421	18,284	18,398	1,641
35	0,95	18,904	18,927	18,876	18,917	18,835	18,903	18,765	18,880	1,642
36	0,95	19,422	19,446	19,395	19,436	19,353	19,421	19,283	19,398	1,646
37	0,95	19,906	19,929	19,878	19,919	19,836	19,904	19,765	19,881	1,646
38	0,95	20,423	20,446	20,395	20,436	20,353	20,421	20,281	20,398	1,650
39	0,95	20,907	20,930	20,879	20,920	20,836	20,905	20,765	20,881	1,651
40	0,95	21,423	21,447	21,395	21,436	21,352	21,421	21,280	21,397	1,654
41	0,95	21,908	21,932	21,880	21,921	21,837	21,906	21,765	21,882	1,655
42	0,95	22,424	22,447	22,395	22,437	22,352	22,422	22,279	22,397	1,658
43	0,95	22,909	22,933	22,880	22,922	22,837	22,907	22,764	22,882	1,658
44	0,95	23,424	23,448	23,395	23,437	23,351	23,422	23,278	23,397	1,661
45	0,95	23,910	23,934	23,881	23,923	23,837	23,908	23,764	23,883	1,661
46	0,95	24,424	24,448	24,395	24,437	24,351	24,422	24,277	24,397	1,664
47	0,95	24,911	24,935	24,882	24,924	24,838	24,908	24,764	24,883	1,664
48	0,95	25,424	25,448	25,395	25,437	25,351	25,422	25,276	25,396	1,667
49	0,95	25,912	25,936	25,882	25,925	25,838	25,909	25,763	25,883	1,667
50	0,95	26,425	26,449	26,395	26,437	26,350	26,421	26,275	26,396	1,669
51	0,95	26,912	26,936	26,883	26,925	26,838	26,909	26,763	26,884	1,670
52	0,95	27,425	27,449	27,395	27,437	27,350	27,421	27,274	27,396	1,672
53	0,95	27,913	27,937	27,883	27,926	27,838	27,909	27,762	27,884	1,672
54	0,95	28,425	28,449	28,395	28,438	28,349	28,421	28,273	28,395	1,674
55	0,95	28,914	28,938	28,883	28,926	28,838	28,910	28,761	28,884	1,674
56	0,95	29,425	29,449	29,395	29,438	29,349	29,421	29,272	29,395	1,676
57	0,95	29,914	29,938	29,884	29,927	29,838	29,910	29,761	29,884	1,676
58	0,95	30,425	30,449	30,395	30,438	30,348	30,421	30,271	30,395	1,678
59	0,95	30,914	30,939	30,884	30,927	30,838	30,910	30,760	30,884	1,678
60	0,95	31,425	31,449	31,394	31,438	31,348	31,421	31,270	31,394	1,680
61	0,95	31,915	31,939	31,884	31,927	31,838	31,910	31,760	31,884	1,680
62	0,95	32,425	32,450	32,394	32,438	32,348	32,421	32,269	32,394	1,682
63	0,95	32,915	32,940	32,884	32,928	32,837	32,911	32,759	32,884	1,682
64	0,95	33,425	33,450	33,394	33,438	33,347	33,420	33,269	33,393	1,683
65	0,95	33,916	33,940	33,884	33,928	33,837	33,911	33,758	33,883	1,684
66	0,95	34,425	34,450	34,394	34,438	34,347	34,420	34,268	34,393	1,685
67	0,95	34,916	34,940	34,884	34,928	34,837	34,911	34,758	34,883	1,685
68	0,95	35,425	35,450	35,394	35,437	35,346	35,420	35,267	35,392	1,686
69	0,95	35,916	35,941	35,885	35,928	35,837	35,911	35,757	35,883	1,686
70	0,95	36,425	36,450	36,394	36,437	36,346	36,420	36,266	36,392	1,688
71	0,95	36,916	36,941	36,885	36,928	36,837	36,911	36,757	36,883	1,688
72	0,95	37,425	37,450	37,393	37,437	37,345	37,419	37,265	37,391	1,689
73	0,95	37,917	37,941	37,885	37,929	37,837	37,911	37,756	37,883	1,689
74	0,95	38,425	38,450	38,393	38,437	38,345	38,419	38,264	38,391	1,690
75	0,95	38,917	38,941	38,885	38,929	38,836	38,911	38,755	38,882	1,690
76	0,95	39,425	39,450	39,393	39,437	39,344	39,419	39,263	39,390	1,691
77	0,95	39,917	39,942	39,885	39,929	39,836	39,911	39,755	39,882	1,691
78	0,95	40,425	40,450	40,393	40,437	40,344	40,419	40,262	40,390	1,692
79	0,95	40,917	40,942	40,885	40,929	40,836	40,911	40,754	40,882	1,693
80	0,95	41,425	41,450	41,393	41,437	41,344	41,418	41,261	41,389	1,693
81	0,95	41,917	41,942	41,885	41,929	41,836	41,911	41,753	41,882	1,694
82	0,95	42,425	42,450	42,392	42,437	42,343	42,418	42,261	42,389	1,694
83	0,95	42,918	42,942	42,885	42,929	42,835	42,910	42,753	42,881	1,695
84	0,95	43,425	43,450	43,392	43,436	43,343	43,418	43,260	43,389	1,695
85	0,95	43,918	43,942	43,885	43,929	43,835	43,910	43,752	43,881	1,696
86	0,95	44,425	44,450	44,392	44,436	44,342	44,418	44,259	44,388	1,696
87	0,95	44,918	44,942	44,885	44,929	44,835	44,910	44,751	44,881	1,696
88	0,95	45,425	45,450	45,392	45,436	45,342	45,417	45,258	45,388	1,697
89	0,95	45,918	45,943	45,885	45,929	45,835	45,910	45,751	45,880	1,697
90	0,95	46,425	46,450	46,392	46,436	46,341	46,417	46,257	46,387	1,698
91	0,95	46,918	46,943	46,885	46,929	46,834	46,910	46,750	46,880	1,698
92	0,95	47,425	47,450	47,391	47,436	47,341	47,417	47,256	47,387	1,699
93	0,95	47,918	47,943	47,885	47,929	47,834	47,910	47,749	47,880	1,699
94	0,95	48,425	48,449	48,391	48,436	48,340	48,416	48,256	48,386	1,700
95	0,95	48,918	48,943	48,884	48,929	48,834	48,910	48,749	48,879	1,700
96	0,95	49,425	49,449	49,391	49,436	49,340	49,416	49,255	49,386	1,700
97	0,95	49,918	49,943	49,884	49,929	49,833	49,910	49,748	49,879	1,700
98	0,95	50,425	50,449	50,391	50,435	50,				

5.2 30° pressure angle, module 0,75

Table 5 — Geometry internal spline, $\alpha = 30^\circ$, $m = 0,75$, flat and fillet root, $E_{v \min} = 1,178$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	4,50	3,8971	6,03	5,81	5,40	4,07	1,205	1,220	1,244	1,284
7	5,25	4,5466	6,79	6,56	6,15	4,77	1,205	1,221	1,245	1,286
8	6,00	5,1962	7,54	7,31	6,90	5,48	1,205	1,222	1,246	1,287
9	6,75	5,8457	8,29	8,07	7,65	6,20	1,206	1,222	1,247	1,289
10	7,50	6,4952	9,04	8,82	8,40	6,93	1,206	1,223	1,248	1,290
11	8,25	7,1447	9,80	9,57	9,15	7,66	1,206	1,223	1,249	1,291
12	9,00	7,7942	10,55	10,32	9,90	8,40	1,207	1,224	1,249	1,292
13	9,75	8,4437	11,30	11,07	10,65	9,14	1,207	1,224	1,250	1,293
14	10,50	9,0933	12,05	11,83	11,40	9,88	1,207	1,224	1,251	1,294
15	11,25	9,7428	12,80	12,58	12,15	10,62	1,207	1,225	1,251	1,295
16	12,00	10,3923	13,55	13,33	12,90	11,36	1,207	1,225	1,252	1,296
17	12,75	11,0418	14,31	14,08	13,65	12,10	1,208	1,226	1,252	1,297
18	13,50	11,6913	15,06	14,83	14,40	12,85	1,208	1,226	1,253	1,298
19	14,25	12,3409	15,81	15,58	15,15	13,59	1,208	1,226	1,253	1,298
20	15,00	12,9904	16,56	16,33	15,90	14,34	1,208	1,226	1,254	1,299
21	15,75	13,6399	17,31	17,09	16,65	15,08	1,208	1,227	1,254	1,300
22	16,50	14,2894	18,06	17,84	17,40	15,83	1,209	1,227	1,255	1,301
23	17,25	14,9389	18,81	18,59	18,15	16,57	1,209	1,227	1,255	1,301
24	18,00	15,5885	19,56	19,34	18,90	17,32	1,209	1,228	1,256	1,302
25	18,75	16,2380	20,32	20,09	19,65	18,07	1,209	1,228	1,256	1,303
26	19,50	16,8875	21,07	20,84	20,40	18,82	1,209	1,228	1,256	1,303
27	20,25	17,5370	21,82	21,59	21,15	19,56	1,210	1,228	1,257	1,304
28	21,00	18,1865	22,57	22,34	21,90	20,31	1,210	1,229	1,257	1,305
29	21,75	18,8361	23,32	23,10	22,65	21,06	1,210	1,229	1,258	1,305
30	22,50	19,4856	24,07	23,85	23,40	21,81	1,210	1,229	1,258	1,306
31	23,25	20,1351	24,82	24,60	24,15	22,55	1,210	1,229	1,258	1,307
32	24,00	20,7846	25,57	25,35	24,90	23,30	1,210	1,230	1,259	1,307
33	24,75	21,4341	26,32	26,10	25,65	24,05	1,210	1,230	1,259	1,308
34	25,50	22,0836	27,08	26,85	26,40	24,80	1,211	1,230	1,259	1,308
35	26,25	22,7332	27,83	27,60	27,15	25,55	1,211	1,230	1,260	1,309
36	27,00	23,3827	28,58	28,35	27,90	26,30	1,211	1,231	1,260	1,309
37	27,75	24,0322	29,33	29,10	28,65	27,05	1,211	1,231	1,260	1,310
38	28,50	24,6817	30,08	29,85	29,40	27,79	1,211	1,231	1,261	1,310
39	29,25	25,3312	30,83	30,61	30,15	28,54	1,211	1,231	1,261	1,311
40	30,00	25,9808	31,58	31,36	30,90	29,29	1,211	1,231	1,261	1,311
41	30,75	26,6303	32,33	32,11	31,65	30,04	1,211	1,232	1,262	1,312
42	31,50	27,2798	33,08	32,86	32,40	30,79	1,212	1,232	1,262	1,312
43	32,25	27,9293	33,83	33,61	33,15	31,54	1,212	1,232	1,262	1,313
44	33,00	28,5788	34,58	34,36	33,90	32,29	1,212	1,232	1,263	1,313
45	33,75	29,2284	35,34	35,11	34,65	33,04	1,212	1,232	1,263	1,314
46	34,50	29,8779	36,09	35,86	35,40	33,79	1,212	1,232	1,263	1,314
47	35,25	30,5274	36,84	36,61	36,15	34,54	1,212	1,233	1,263	1,315
48	36,00	31,1769	37,59	37,36	36,90	35,28	1,212	1,233	1,264	1,315
49	36,75	31,8264	38,34	38,11	37,65	36,03	1,212	1,233	1,264	1,316
50	37,50	32,4760	39,09	38,86	38,40	36,78	1,212	1,233	1,264	1,316
51	38,25	33,1255	39,84	39,61	39,15	37,53	1,213	1,233	1,265	1,316
52	39,00	33,7750	40,59	40,37	39,90	38,28	1,213	1,234	1,265	1,317
53	39,75	34,4245	41,34	41,12	40,65	39,03	1,213	1,234	1,265	1,317
54	40,50	35,0740	42,09	41,87	41,40	39,78	1,213	1,234	1,265	1,318
55	41,25	35,7235	42,84	42,62	42,15	40,53	1,213	1,234	1,266	1,318
56	42,00	36,3731	43,59	43,37	42,90	41,28	1,213	1,234	1,266	1,318
57	42,75	37,0226	44,34	44,12	43,65	42,03	1,213	1,234	1,266	1,319
58	43,50	37,6721	45,09	44,87	44,40	42,78	1,213	1,235	1,266	1,319
59	44,25	38,3216	45,85	45,62	45,15	43,53	1,213	1,235	1,267	1,320
60	45,00	38,9711	46,60	46,37	45,90	44,28	1,214	1,235	1,267	1,320
61	45,75	39,6207	47,35	47,12	46,65	45,03	1,214	1,235	1,267	1,320
62	46,50	40,2702	48,10	47,87	47,40	45,78	1,214	1,235	1,267	1,321
63	47,25	40,9197	48,85	48,62	48,15	46,53	1,214	1,235	1,267	1,321
64	48,00	41,5692	49,60	49,37	48,90	47,28	1,214	1,235	1,268	1,322
65	48,75	42,2187	50,35	50,12	49,65	48,03	1,214	1,236	1,268	1,322
66	49,50	42,8683	51,10	50,87	50,40	48,77	1,214	1,236	1,268	1,322
67	50,25	43,5178	51,85	51,63	51,15	49,52	1,214	1,236	1,268	1,323
68	51,00	44,1673	52,60	52,38	51,90	50,27	1,214	1,236	1,269	1,323
69	51,75	44,8168	53,35	53,13	52,65	51,02	1,214	1,236	1,269	1,323
70	52,50	45,4663	54,10	53,88	53,40	51,77	1,214	1,236	1,269	1,324
71	53,25	46,1159	54,85	54,63	54,15	52,52	1,215	1,236	1,269	1,324
72	54,00	46,7654	55,60	55,38	54,90	53,27	1,215	1,237	1,270	1,324
73	54,75	47,4149	56,35	56,13	55,65	54,02	1,215	1,237	1,270	1,325
74	55,50	48,0644	57,10	56,88	56,40	54,77	1,215	1,237	1,270	1,325
75	56,25	48,7139	57,86	57,63	57,15	55,52	1,215	1,237	1,270	1,325
76	57,00	49,3634	58,61	58,38	57,90	56,27	1,215	1,237	1,270	1,326
77	57,75	50,0130	59,36	59,13	58,65	57,02	1,215	1,237	1,271	1,326
78	58,50	50,6625	60,11	59,88	59,40	57,77	1,215	1,237	1,271	1,326
79	59,25	51,3120	60,86	60,63	60,15	58,52	1,215	1,238	1,271	1,327
80	60,00	51,9615	61,61	61,38	60,90	59,27	1,215	1,238	1,271	1,327
81	60,75	52,6110	62,36	62,13	61,65	60,02	1,215	1,238	1,271	1,327
82	61,50	53,2606	63,11	62,88	62,40	60,77	1,215	1,238	1,272	1,328
83	62,25	53,9101	63,86	63,63	63,15	61,52	1,216	1,238	1,272	1,328
84	63,00	54,5596	64,61	64,39	63,90	62,27	1,216	1,238	1,272	1,328
85	63,75	55,2091	65,36	65,14	64,65	63,02	1,216	1,238	1,272	1,329
86	64,50	55,8586	66,11	65,89	65,40	63,77	1,216	1,238	1,272	1,329
87	65,25	56,5082	66,86	66,64	66,15	64,52	1,216	1,239	1,273	1,329
88	66,00	57,1577	67,61	67,39	66,90	65,27	1,216	1,239	1,273	1,330
89	66,75	57,8072	68,36	68,14	67,65	66,02	1,216	1,239	1,273	1,330
90	67,50	58,4567	69,11	68,89	68,40	66,77	1,216	1,239	1,273	1,330
91	68,25	59,1062	69,86	69,64	69,15	67,52	1,216	1,239	1,273	1,331
92	69,00	59,7558	70,61	70,39	69,90	68,27	1,216	1,239	1,274	1,331
93	69,75	60,4053	71,37	71,14	70,65	69,02	1,216	1,239	1,274	1,331
94	70,50	61,0548	72,12	71,89	71,40	69,77	1,216	1,239	1,274	1,331
95	71,25	61,7043	72,87	72,64	72,15	70,52	1,216	1,239	1,274	1,332
96	72,00	62,3538	73,62	73,39	72,90	71,27	1,216	1,240	1,274	1,332
97	72,75	63,0033	74,37	74,14	73,65	72,02	1,217	1,240	1,274	1,332
98	73,50	63,6529	75,12	74,89	74,40	72,77	1,217	1,240	1,275	1,333
99	74,25	64,3024	75,87	75,64	75,15	73,52	1,217	1,240	1,275	1,333
100	75,00	64,9519	76,62	76,39	75,90	74,27	1,217	1,240	1,275	1,333

Table 6 — Geometry external spline, $\alpha = 30^\circ$, $m = 0,75$, flat and fillet root, $S_{v \max} = 1,178$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	4,50	3,8971	5,25	3,92	2,97	3,19	1,151	1,136	1,112	1,072
7	5,25	4,5466	6,00	4,62	3,71	3,94	1,151	1,135	1,111	1,070
8	6,00	5,1962	6,75	5,33	4,46	4,69	1,151	1,134	1,110	1,069
9	6,75	5,8457	7,50	6,05	5,21	5,43	1,150	1,134	1,109	1,067
10	7,50	6,4952	8,25	6,78	5,96	6,18	1,150	1,133	1,108	1,066
11	8,25	7,1447	9,00	7,51	6,70	6,93	1,150	1,133	1,107	1,065
12	9,00	7,7942	9,75	8,25	7,45	7,68	1,149	1,132	1,107	1,064
13	9,75	8,4437	10,50	8,99	8,20	8,43	1,149	1,132	1,106	1,063
14	10,50	9,0933	11,25	9,73	8,95	9,17	1,149	1,132	1,105	1,062
15	11,25	9,7428	12,00	10,47	9,70	9,92	1,149	1,131	1,105	1,061
16	12,00	10,3923	12,75	11,21	10,45	10,67	1,149	1,131	1,104	1,060
17	12,75	11,0418	13,50	11,95	11,19	11,42	1,148	1,130	1,104	1,059
18	13,50	11,6913	14,25	12,70	11,94	12,17	1,148	1,130	1,103	1,058
19	14,25	12,3409	15,00	13,44	12,69	12,92	1,148	1,130	1,103	1,058
20	15,00	12,9904	15,75	14,19	13,44	13,67	1,148	1,130	1,102	1,057
21	15,75	13,6399	16,50	14,93	14,19	14,41	1,148	1,129	1,102	1,056
22	16,50	14,2894	17,25	15,68	14,94	15,16	1,147	1,129	1,101	1,055
23	17,25	14,9389	18,00	16,42	15,69	15,91	1,147	1,129	1,101	1,055
24	18,00	15,5885	18,75	17,17	16,44	16,66	1,147	1,128	1,100	1,054
25	18,75	16,2380	19,50	17,92	17,18	17,41	1,147	1,128	1,100	1,053
26	19,50	16,8875	20,25	18,67	17,93	18,16	1,147	1,128	1,100	1,053
27	20,25	17,5370	21,00	19,41	18,68	18,91	1,146	1,128	1,099	1,052
28	21,00	18,1865	21,75	20,16	19,43	19,66	1,146	1,127	1,099	1,051
29	21,75	18,8361	22,50	20,91	20,18	20,40	1,146	1,127	1,098	1,051
30	22,50	19,4856	23,25	21,66	20,93	21,15	1,146	1,127	1,098	1,050
31	23,25	20,1351	24,00	22,40	21,68	21,90	1,146	1,127	1,098	1,049
32	24,00	20,7846	24,75	23,15	22,43	22,65	1,146	1,126	1,097	1,049
33	24,75	21,4341	25,50	23,90	23,18	23,40	1,146	1,126	1,097	1,048
34	25,50	22,0836	26,25	24,65	23,92	24,15	1,145	1,126	1,097	1,048
35	26,25	22,7332	27,00	25,40	24,67	24,90	1,145	1,126	1,096	1,047
36	27,00	23,3827	27,75	26,15	25,42	25,65	1,145	1,125	1,096	1,047
37	27,75	24,0322	28,50	26,90	26,17	26,40	1,145	1,125	1,096	1,046
38	28,50	24,6817	29,25	27,64	26,92	27,15	1,145	1,125	1,095	1,046
39	29,25	25,3312	30,00	28,39	27,67	27,89	1,145	1,125	1,095	1,045
40	30,00	25,9808	30,75	29,14	28,42	28,64	1,145	1,125	1,095	1,045
41	30,75	26,6303	31,50	29,89	29,17	29,39	1,145	1,124	1,094	1,044
42	31,50	27,2798	32,25	30,64	29,92	30,14	1,144	1,124	1,094	1,044
43	32,25	27,9293	33,00	31,39	30,67	30,89	1,144	1,124	1,094	1,043
44	33,00	28,5788	33,75	32,14	31,42	31,64	1,144	1,124	1,093	1,043
45	33,75	29,2284	34,50	32,89	32,16	32,39	1,144	1,124	1,093	1,042
46	34,50	29,8779	35,25	33,64	32,91	33,14	1,144	1,124	1,093	1,042
47	35,25	30,5274	36,00	34,39	33,66	33,89	1,144	1,123	1,093	1,041
48	36,00	31,1769	36,75	35,13	34,41	34,64	1,144	1,123	1,092	1,041
49	36,75	31,8264	37,50	35,88	35,16	35,39	1,144	1,123	1,092	1,040
50	37,50	32,4760	38,25	36,63	35,91	36,14	1,144	1,123	1,092	1,040
51	38,25	33,1255	39,00	37,38	36,66	36,89	1,143	1,123	1,091	1,040
52	39,00	33,7750	39,75	38,13	37,41	37,63	1,143	1,122	1,091	1,039
53	39,75	34,4245	40,50	38,88	38,16	38,38	1,143	1,122	1,091	1,039
54	40,50	35,0740	41,25	39,63	38,91	39,13	1,143	1,122	1,091	1,038
55	41,25	35,7235	42,00	40,38	39,66	39,88	1,143	1,122	1,090	1,038
56	42,00	36,3731	42,75	41,13	40,41	40,63	1,143	1,122	1,090	1,038
57	42,75	37,0226	43,50	41,88	41,16	41,38	1,143	1,122	1,090	1,037
58	43,50	37,6721	44,25	42,63	41,91	42,13	1,143	1,121	1,090	1,037
59	44,25	38,3216	45,00	43,38	42,65	42,88	1,143	1,121	1,089	1,036
60	45,00	38,9711	45,75	44,13	43,40	43,63	1,142	1,121	1,089	1,036
61	45,75	39,6207	46,50	44,88	44,15	44,38	1,142	1,121	1,089	1,036
62	46,50	40,2702	47,25	45,63	44,90	45,13	1,142	1,121	1,089	1,035
63	47,25	40,9197	48,00	46,38	45,65	45,88	1,142	1,121	1,089	1,035
64	48,00	41,5692	48,75	47,13	46,40	46,63	1,142	1,121	1,088	1,034
65	48,75	42,2187	49,50	47,88	47,15	47,38	1,142	1,120	1,088	1,034
66	49,50	42,8683	50,25	48,62	47,90	48,13	1,142	1,120	1,088	1,034
67	50,25	43,5178	51,00	49,37	48,65	48,87	1,142	1,120	1,088	1,033
68	51,00	44,1673	51,75	50,12	49,40	49,62	1,142	1,120	1,087	1,033
69	51,75	44,8168	52,50	50,87	50,15	50,37	1,142	1,120	1,087	1,033
70	52,50	45,4663	53,25	51,62	50,90	51,12	1,142	1,120	1,087	1,032
71	53,25	46,1159	54,00	52,37	51,65	51,87	1,141	1,120	1,087	1,032
72	54,00	46,7654	54,75	53,12	52,40	52,62	1,141	1,119	1,086	1,032
73	54,75	47,4149	55,50	53,87	53,15	53,37	1,141	1,119	1,086	1,031
74	55,50	48,0644	56,25	54,62	53,90	54,12	1,141	1,119	1,086	1,031
75	56,25	48,7139	57,00	55,37	54,64	54,87	1,141	1,119	1,086	1,031
76	57,00	49,3634	57,75	56,12	55,39	55,62	1,141	1,119	1,086	1,030
77	57,75	50,0130	58,50	56,87	56,14	56,37	1,141	1,119	1,085	1,030
78	58,50	50,6625	59,25	57,62	56,89	57,12	1,141	1,119	1,085	1,030
79	59,25	51,3120	60,00	58,37	57,64	57,87	1,141	1,118	1,085	1,029
80	60,00	51,9615	60,75	59,12	58,39	58,62	1,141	1,118	1,085	1,029
81	60,75	52,6110	61,50	59,87	59,14	59,37	1,141	1,118	1,085	1,029
82	61,50	53,2606	62,25	60,62	59,89	60,12	1,141	1,118	1,084	1,028
83	62,25	53,9101	63,00	61,37	60,64	60,87	1,140	1,118	1,084	1,028
84	63,00	54,5596	63,75	62,12	61,39	61,61	1,140	1,118	1,084	1,028
85	63,75	55,2091	64,50	62,87	62,14	62,36	1,140	1,118	1,084	1,027
86	64,50	55,8586	65,25	63,62	62,89	63,11	1,140	1,118	1,084	1,027
87	65,25	56,5082	66,00	64,37	63,64	63,86	1,140	1,117	1,083	1,027
88	66,00	57,1577	66,75	65,12	64,39	64,61	1,140	1,117	1,083	1,026
89	66,75	57,8072	67,50	65,87	65,14	65,36	1,140	1,117	1,083	1,026
90	67,50	58,4567	68,25	66,62	65,89	66,11	1,140	1,117	1,083	1,026
91	68,25	59,1062	69,00	67,37	66,64	66,86	1,140	1,117	1,083	1,025
92	69,00	59,7558	69,75	68,12	67,39	67,61	1,140	1,117	1,082	1,025
93	69,75	60,4053	70,50	68,87	68,13	68,36	1,140	1,117	1,082	1,025
94	70,50	61,0548	71,25	69,62	68,88	69,11	1,140	1,117	1,082	1,025
95	71,25	61,7043	72,00	70,37	69,63	69,86	1,140	1,117	1,082	1,024
96	72,00	62,3538	72,75	71,12	70,38	70,61	1,140	1,116	1,082	1,024
97	72,75	63,0033	73,50	71,87	71,13	71,36	1,139	1,116	1,082	1,024
98	73,50	63,6529	74,25	72,62	71,88	72,11	1,139	1,116	1,081	1,023
99	74,25	64,3024	75,00	73,37	72,63	72,86	1,139	1,116	1,081	1,023
100	75,00	64,9519	75,75	74,12	73,38	73,61	1,139	1,116	1,081	1,023

Table 7 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 0,75$, flat or fillet root, $E_{v \min} = 1,178$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	1,25	4,224	4,267	4,239	4,308	4,260	4,366	4,292	4,455	2,097
9	1,25	4,897	4,936	4,910	4,973	4,929	5,028	4,958	5,114	2,001
10	1,32	5,475	5,521	5,491	5,566	5,514	5,630	5,549	5,727	2,232
11	1,32	6,171	6,212	6,185	6,254	6,206	6,313	6,238	6,406	2,129
12	1,32	7,013	7,053	7,027	7,093	7,047	7,151	7,078	7,243	2,092
13	1,32	7,708	7,746	7,722	7,784	7,740	7,841	7,770	7,930	2,033
14	1,32	8,534	8,570	8,547	8,608	8,565	8,664	8,595	8,753	2,013
15	1,32	9,232	9,268	9,245	9,305	9,263	9,360	9,292	9,448	1,974
16	1,32	10,046	10,082	10,059	10,119	10,077	10,173	10,106	10,261	1,962
17	1,32	10,750	10,784	10,762	10,821	10,780	10,874	10,808	10,962	1,935
18	1,32	11,555	11,590	11,568	11,626	11,586	11,680	11,614	11,768	1,927
19	1,32	12,263	12,296	12,275	12,332	12,293	12,386	12,321	12,473	1,906
20	1,32	13,062	13,096	13,075	13,132	13,093	13,186	13,121	13,273	1,901
21	1,32	13,773	13,806	13,785	13,842	13,803	13,895	13,831	13,982	1,885
22	1,32	14,568	14,601	14,580	14,637	14,598	14,690	14,626	14,778	1,881
23	1,32	15,281	15,314	15,294	15,350	15,311	15,403	15,340	15,490	1,868
24	1,32	16,072	16,105	16,085	16,141	16,102	16,194	16,131	16,282	1,865
25	1,32	16,788	16,821	16,801	16,856	16,818	16,910	16,847	16,997	1,854
26	1,32	17,576	17,608	17,588	17,644	17,606	17,697	17,635	17,785	1,852
27	1,32	18,294	18,326	18,307	18,362	18,325	18,416	18,353	18,503	1,843
28	1,32	19,079	19,111	19,091	19,147	19,109	19,200	19,138	19,289	1,841
29	1,40	19,540	19,574	19,554	19,611	19,572	19,666	19,602	19,757	1,888
30	1,40	20,323	20,356	20,337	20,394	20,355	20,449	20,385	20,540	1,884
31	1,40	21,046	21,079	21,060	21,116	21,078	21,172	21,108	21,263	1,876
32	1,40	21,827	21,860	21,840	21,897	21,859	21,953	21,889	22,044	1,872
33	1,40	22,552	22,584	22,565	22,621	22,584	22,677	22,614	22,768	1,865
34	1,40	23,330	23,363	23,344	23,400	23,363	23,456	23,393	23,547	1,862
35	1,40	24,056	24,089	24,070	24,126	24,089	24,181	24,119	24,273	1,855
36	1,40	24,833	24,866	24,847	24,903	24,866	24,959	24,896	25,050	1,853
37	1,40	25,560	25,593	25,574	25,630	25,593	25,686	25,623	25,777	1,847
38	1,40	26,336	26,368	26,349	26,406	26,369	26,461	26,399	26,553	1,845
39	1,40	27,064	27,096	27,078	27,134	27,097	27,189	27,127	27,282	1,840
40	1,40	27,838	27,870	27,852	27,908	27,871	27,964	27,902	28,056	1,838
41	1,40	28,567	28,599	28,581	28,637	28,600	28,693	28,631	28,785	1,833
42	1,40	29,340	29,372	29,354	29,410	29,374	29,466	29,404	29,559	1,832
43	1,40	30,070	30,102	30,084	30,140	30,104	30,196	30,135	30,289	1,828
44	1,40	30,842	30,874	30,856	30,912	30,876	30,968	30,907	31,061	1,826
45	1,40	31,573	31,605	31,587	31,643	31,607	31,699	31,638	31,792	1,823
46	1,40	32,344	32,376	32,358	32,414	32,378	32,470	32,409	32,564	1,821
47	1,40	33,076	33,107	33,090	33,145	33,110	33,202	33,141	33,295	1,818
48	1,40	33,846	33,877	33,860	33,915	33,880	33,972	33,911	34,066	1,817
49	1,40	34,578	34,609	34,592	34,647	34,612	34,704	34,644	34,798	1,814
50	1,40	35,347	35,379	35,361	35,417	35,382	35,474	35,413	35,568	1,813
51	1,40	36,080	36,111	36,094	36,150	36,115	36,207	36,146	36,301	1,810
52	1,40	36,849	36,880	36,863	36,918	36,883	36,975	36,915	37,070	1,809
53	1,40	37,582	37,613	37,597	37,652	37,617	37,709	37,649	37,804	1,806
54	1,40	38,350	38,381	38,364	38,420	38,385	38,477	38,417	38,572	1,806
55	1,40	39,084	39,115	39,099	39,154	39,119	39,211	39,151	39,306	1,803
56	1,40	39,851	39,882	39,866	39,921	39,886	39,978	39,919	40,074	1,802
57	1,40	40,586	40,617	40,600	40,655	40,621	40,713	40,653	40,809	1,800
58	1,40	41,352	41,383	41,367	41,422	41,388	41,480	41,420	41,575	1,800
59	1,40	42,087	42,118	42,102	42,157	42,123	42,215	42,156	42,311	1,798
60	1,40	42,853	42,884	42,868	42,923	42,889	42,981	42,922	43,077	1,797
61	1,40	43,589	43,620	43,604	43,659	43,625	43,717	43,658	43,813	1,795
62	1,40	44,354	44,385	44,369	44,424	44,390	44,482	44,423	44,579	1,794
63	1,40	45,090	45,121	45,106	45,160	45,127	45,219	45,160	45,315	1,793
64	1,40	45,855	45,886	45,871	45,925	45,892	45,984	45,925	46,081	1,792
65	1,40	46,592	46,623	46,607	46,662	46,628	46,720	46,662	46,817	1,791
66	1,40	47,356	47,387	47,372	47,426	47,393	47,485	47,426	47,582	1,790
67	1,40	48,093	48,124	48,108	48,163	48,130	48,222	48,163	48,319	1,789
68	1,40	48,857	48,888	48,873	48,927	48,894	48,986	48,928	49,084	1,788
69	1,40	49,594	49,625	49,610	49,665	49,631	49,723	49,665	49,821	1,787
70	1,40	50,358	50,389	50,374	50,428	50,395	50,487	50,429	50,585	1,786
71	1,40	51,096	51,126	51,111	51,166	51,133	51,225	51,167	51,323	1,785
72	1,40	51,859	51,890	51,875	51,929	51,896	51,988	51,930	52,087	1,784
73	1,40	52,597	52,627	52,612	52,667	52,634	52,726	52,669	52,825	1,783
74	1,40	53,360	53,390	53,375	53,430	53,397	53,489	53,432	53,588	1,783
75	1,40	54,098	54,128	54,114	54,168	54,136	54,228	54,170	54,327	1,782
76	1,40	54,860	54,891	54,876	54,931	54,898	54,991	54,933	55,090	1,781
77	1,40	55,599	55,629	55,615	55,669	55,637	55,729	55,672	55,828	1,780
78	1,40	56,361	56,392	56,377	56,432	56,399	56,492	56,434	56,591	1,780
79	1,40	57,100	57,130	57,116	57,170	57,138	57,230	57,173	57,330	1,779
80	1,40	57,862	57,892	57,878	57,932	57,900	57,993	57,935	58,092	1,778
81	1,40	58,601	58,631	58,617	58,672	58,640	58,732	58,675	58,832	1,777
82	1,40	59,363	59,393	59,379	59,433	59,401	59,493	59,437	59,594	1,777
83	1,40	60,102	60,132	60,118	60,173	60,141	60,233	60,176	60,333	1,776
84	1,40	60,863	60,893	60,880	60,934	60,902	60,994	60,938	61,095	1,776
85	1,40	61,603	61,633	61,619	61,673	61,642	61,734	61,678	61,835	1,775
86	1,40	62,364	62,394	62,380	62,435	62,403	62,495	62,439	62,596	1,775
87	1,40	63,104	63,134	63,120	63,174	63,143	63,235	63,179	63,336	1,774
88	1,40	63,865	63,895	63,881	63,935	63,904	63,996	63,940	64,097	1,774
89	1,40	64,605	64,635	64,621	64,675	64,644	64,736	64,680	64,838	1,773
90	1,40	65,365	65,395	65,382	65,436	65,405	65,497	65,441	65,599	1,772
91	1,40	66,105	66,135	66,122	66,176	66,145	66,237	66,181	66,339	1,772
92	1,40	66,866	66,896	66,882	66,937	66,906	66,998	66,942	67,100	1,771
93	1,40	67,606	67,636	67,623	67,677	67,646	67,738	67,683	67,840	1,771
94	1,40	68,366	68,396	68,383	68,437	68,407	68,499	68,443	68,601	1,770
95	1,40	69,107	69,137	69,124	69,178	69,147	69,240	69,184	69,342	1,770
96	1,40	69,867	69,897	69,884	69,938	69,907	70,000	69,944	70,102	1,770
97	1,40	70,608	70,637	70,625	70,679	70,648	70,741	70,685	70,843	1,769
98	1,40	71,367	71,397	71,384	71,439	71,408	71,500	71,445	71,603	1,769
99	1,40	72,108	72,138	72,125	72,180	72,149	72,7			

Table 8 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 0,75$, flat or fillet root, $S_{v \max} = 1,178$

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	1,70	7,253	7,273	7,234	7,266	7,205	7,257	7,156	7,242	1,237
7	1,60	7,622	7,642	7,602	7,636	7,572	7,626	7,521	7,611	1,274
8	1,60	8,541	8,562	8,519	8,555	8,487	8,545	8,433	8,528	1,334
9	1,60	9,185	9,206	9,163	9,199	9,130	9,189	9,075	9,172	1,337
10	1,60	10,062	10,084	10,039	10,076	10,005	10,066	9,947	10,048	1,379
11	1,50	10,468	10,490	10,444	10,483	10,408	10,471	10,348	10,453	1,426
12	1,50	11,316	11,339	11,291	11,331	11,254	11,319	11,192	11,300	1,457
13	1,50	11,993	12,017	11,969	12,009	11,931	11,997	11,869	11,978	1,461
14	1,50	12,825	12,849	12,799	12,840	12,761	12,828	12,697	12,808	1,484
15	1,50	13,512	13,536	13,487	13,528	13,448	13,516	13,383	13,496	1,488
16	1,50	14,332	14,356	14,306	14,348	14,266	14,335	14,200	14,315	1,507
17	1,50	15,027	15,052	15,001	15,043	14,961	15,030	14,894	15,010	1,510
18	1,50	15,838	15,863	15,811	15,854	15,771	15,841	15,702	15,820	1,525
19	1,50	16,539	16,564	16,512	16,555	16,471	16,542	16,402	16,521	1,528
20	1,50	17,343	17,368	17,315	17,359	17,274	17,345	17,204	17,324	1,541
21	1,50	18,049	18,074	18,021	18,065	17,979	18,051	17,909	18,029	1,544
22	1,50	18,847	18,873	18,819	18,863	18,776	18,849	18,705	18,827	1,555
23	1,50	19,557	19,582	19,528	19,573	19,485	19,559	19,414	19,536	1,557
24	1,50	20,351	20,376	20,322	20,367	20,279	20,352	20,206	20,330	1,567
25	1,50	21,063	21,089	21,034	21,079	20,991	21,065	20,918	21,042	1,569
26	1,50	21,854	21,880	21,824	21,870	21,780	21,855	21,706	21,832	1,577
27	1,50	22,569	22,595	22,540	22,585	22,495	22,571	22,421	22,547	1,579
28	1,50	23,356	23,382	23,326	23,372	23,282	23,357	23,207	23,334	1,586
29	1,50	24,074	24,101	24,044	24,090	23,999	24,075	23,924	24,051	1,588
30	1,50	24,858	24,885	24,828	24,874	24,783	24,859	24,707	24,835	1,595
31	1,50	25,578	25,605	25,548	25,594	25,502	25,579	25,426	25,555	1,596
32	1,50	26,360	26,387	26,326	26,376	26,284	26,361	26,206	26,336	1,602
33	1,40	26,798	26,825	26,767	26,814	26,720	26,799	26,641	26,773	1,633
34	1,40	27,577	27,605	27,546	27,594	27,498	27,578	27,419	27,552	1,638
35	1,40	28,301	28,328	28,269	28,317	28,221	28,301	28,141	28,275	1,639
36	1,40	29,078	29,106	29,046	29,094	28,998	29,078	28,918	29,052	1,643
37	1,40	29,803	29,831	29,771	29,819	29,723	29,803	29,642	29,777	1,643
38	1,40	30,579	30,607	30,547	30,595	30,498	30,578	30,417	30,552	1,647
39	1,40	31,305	31,333	31,273	31,321	31,224	31,304	31,142	31,278	1,648
40	1,40	32,080	32,107	32,047	32,095	31,998	32,079	31,916	32,052	1,651
41	1,40	32,807	32,835	32,774	32,823	32,725	32,806	32,642	32,779	1,652
42	1,40	33,580	33,608	33,547	33,596	33,498	33,579	33,415	33,552	1,655
43	1,40	34,308	34,336	34,275	34,324	34,226	34,307	34,142	34,280	1,655
44	1,40	35,081	35,108	35,047	35,096	34,997	35,079	34,914	35,052	1,658
45	1,40	35,810	35,838	35,777	35,825	35,726	35,808	35,642	35,781	1,659
46	1,40	36,581	36,609	36,548	36,597	36,497	36,579	36,412	36,552	1,661
47	1,40	37,311	37,339	37,278	37,327	37,227	37,309	37,142	37,281	1,662
48	1,40	38,081	38,109	38,048	38,097	37,997	38,079	37,911	38,051	1,664
49	1,40	38,812	38,840	38,778	38,828	38,727	38,810	38,642	38,782	1,665
50	1,40	39,582	39,610	39,548	39,597	39,496	39,579	39,410	39,551	1,667
51	1,40	40,313	40,341	40,279	40,329	40,228	40,311	40,141	40,282	1,667
52	1,40	41,082	41,110	41,048	41,097	40,996	41,079	40,909	41,050	1,669
53	1,40	41,814	41,842	41,780	41,830	41,728	41,811	41,641	41,783	1,670
54	1,40	42,582	42,610	42,548	42,597	42,496	42,579	42,408	42,550	1,671
55	1,40	43,315	43,343	43,281	43,330	43,228	43,312	43,141	43,283	1,672
56	1,40	44,083	44,111	44,048	44,097	43,995	44,079	43,907	44,050	1,674
57	1,40	44,816	44,844	44,781	44,831	44,728	44,812	44,640	44,783	1,674
58	1,40	45,583	45,611	45,548	45,598	45,495	45,579	45,406	45,549	1,676
59	1,40	46,317	46,345	46,282	46,332	46,229	46,313	46,140	46,283	1,676
60	1,40	47,083	47,111	47,047	47,098	46,994	47,079	46,905	47,049	1,677
61	1,40	47,818	47,846	47,782	47,832	47,729	47,813	47,639	47,783	1,678
62	1,40	48,583	48,611	48,547	48,598	48,494	48,578	48,404	48,548	1,679
63	1,40	49,318	49,346	49,282	49,333	49,229	49,313	49,139	49,283	1,679
64	1,40	50,083	50,111	50,047	50,098	49,993	50,078	49,903	50,048	1,681
65	1,40	50,819	50,847	50,783	50,833	50,729	50,814	50,638	50,783	1,681
66	1,40	51,583	51,611	51,547	51,597	51,493	51,578	51,402	51,547	1,682
67	1,40	52,319	52,347	52,283	52,333	52,229	52,314	52,138	52,283	1,683
68	1,40	53,083	53,112	53,047	53,097	52,992	53,078	52,901	53,047	1,684
69	1,40	53,820	53,848	53,783	53,834	53,729	53,814	53,637	53,783	1,684
70	1,40	54,583	54,612	54,547	54,597	54,492	54,577	54,400	54,546	1,685
71	1,40	55,320	55,348	55,284	55,334	55,229	55,314	55,136	55,283	1,685
72	1,40	56,083	56,112	56,047	56,097	55,991	56,077	55,899	56,045	1,687
73	1,40	56,821	56,849	56,784	56,834	56,728	56,814	56,636	56,782	1,687
74	1,40	57,583	57,612	57,547	57,597	57,491	57,577	57,398	57,545	1,688
75	1,40	58,321	58,349	58,284	58,335	58,228	58,314	58,135	58,282	1,688
76	1,40	59,083	59,112	59,046	59,097	58,991	59,076	58,897	59,044	1,689
77	1,40	59,821	59,850	59,784	59,835	59,728	59,814	59,635	59,782	1,689
78	1,40	60,583	60,612	60,546	60,597	60,490	60,576	60,396	60,544	1,690
79	1,40	61,322	61,350	61,284	61,335	61,228	61,314	61,134	61,282	1,690
80	1,40	62,083	62,112	62,046	62,097	61,990	62,076	61,895	62,043	1,691
81	1,40	62,822	62,850	62,784	62,835	62,728	62,814	62,633	62,781	1,691
82	1,40	63,583	63,612	63,546	63,597	63,489	63,576	63,394	63,543	1,692
83	1,40	64,322	64,350	64,284	64,335	64,228	64,314	64,133	64,281	1,692
84	1,40	65,083	65,112	65,046	65,097	64,989	65,075	64,893	65,042	1,693
85	1,40	65,822	65,851	65,784	65,835	65,727	65,814	65,632	65,781	1,693
86	1,40	66,583	66,612	66,545	66,596	66,488	66,575	66,392	66,541	1,694
87	1,40	67,323	67,351	67,285	67,336	67,227	67,314	67,131	67,280	1,694
88	1,40	68,083	68,112	68,045	68,096	67,988	68,075	67,891	68,041	1,695
89	1,40	68,823	68,851	68,785	68,836	68,727	68,814	68,631	68,780	1,695
90	1,40	69,583	69,612	69,545	69,596	69,487	69,574	69,391	69,540	1,696
91	1,40	70,323	70,351	70,285	70,336	70,227	70,314	70,130	70,280	1,696
92	1,40	71,083	71,112	71,045	71,096	70,987	71,074	70,890	71,040	1,697
93	1,40	71,823	71,851	71,785	71,836	71,726	71,814	71,629	71,779	1,697
94	1,40	72,583	72,611	72,545	72,596	72,486	72,573	72,389	72,539	1,697
95	1,40	73,323	73,352	73,285	73,336	73,226	73,313	73,128	73,279	1,698
96	1,40	74,083	74,111	74,044	74,095	73,986	74,073	73,888		

5.3 30° pressure angle, module 1

Table 9 — Geometry internal spline, $\alpha = 30^\circ$, $m = 1$, flat or fillet root, $E_{v \min} = 1,571$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	6,00	5,1962	8,00	7,70	7,20	5,43	1,600	1,618	1,644	1,688
7	7,00	6,0622	9,01	8,71	8,20	6,36	1,601	1,618	1,645	1,690
8	8,00	6,9282	10,01	9,71	9,20	7,31	1,601	1,619	1,646	1,691
9	9,00	7,7942	11,01	10,71	10,20	8,27	1,601	1,620	1,647	1,693
10	10,00	8,6603	12,01	11,71	11,20	9,24	1,602	1,620	1,648	1,694
11	11,00	9,5263	13,02	12,72	12,20	10,22	1,602	1,621	1,649	1,695
12	12,00	10,3923	14,02	13,72	13,20	11,20	1,602	1,621	1,650	1,697
13	13,00	11,2583	15,02	14,72	14,20	12,18	1,603	1,622	1,650	1,698
14	14,00	12,1244	16,02	15,72	15,20	13,17	1,603	1,622	1,651	1,699
15	15,00	12,9904	17,02	16,72	16,20	14,16	1,603	1,623	1,652	1,700
16	16,00	13,8564	18,03	17,73	17,20	15,15	1,603	1,623	1,652	1,701
17	17,00	14,7224	19,03	18,73	18,20	16,14	1,604	1,623	1,653	1,702
18	18,00	15,5885	20,03	19,73	19,20	17,13	1,604	1,624	1,653	1,703
19	19,00	16,4545	21,03	20,73	20,20	18,12	1,604	1,624	1,654	1,704
20	20,00	17,3205	22,03	21,73	21,20	19,11	1,604	1,624	1,655	1,705
21	21,00	18,1865	23,03	22,73	22,20	20,11	1,605	1,625	1,655	1,705
22	22,00	19,0526	24,03	23,73	23,20	21,10	1,605	1,625	1,656	1,706
23	23,00	19,9186	25,04	24,74	24,20	22,10	1,605	1,625	1,656	1,707
24	24,00	20,7846	26,04	25,74	25,20	23,09	1,605	1,626	1,657	1,708
25	25,00	21,6506	27,04	26,74	26,20	24,09	1,605	1,626	1,657	1,709
26	26,00	22,5167	28,04	27,74	27,20	25,09	1,606	1,626	1,657	1,709
27	27,00	23,3827	29,04	28,74	28,20	26,08	1,606	1,627	1,658	1,710
28	28,00	24,2487	30,04	29,74	29,20	27,08	1,606	1,627	1,658	1,711
29	29,00	25,1147	31,04	30,74	30,20	28,08	1,606	1,627	1,659	1,711
30	30,00	25,9808	32,04	31,74	31,20	29,07	1,606	1,627	1,659	1,712
31	31,00	26,8468	33,05	32,75	32,20	30,07	1,606	1,628	1,660	1,713
32	32,00	27,7128	34,05	33,75	33,20	31,07	1,607	1,628	1,660	1,713
33	33,00	28,5788	35,05	34,75	34,20	32,07	1,607	1,628	1,660	1,714
34	34,00	29,4449	36,05	35,75	35,20	33,07	1,607	1,628	1,661	1,715
35	35,00	30,3109	37,05	36,75	36,20	34,06	1,607	1,629	1,661	1,715
36	36,00	31,1769	38,05	37,75	37,20	35,06	1,607	1,629	1,662	1,716
37	37,00	32,0429	39,05	38,75	38,20	36,06	1,607	1,629	1,662	1,716
38	38,00	32,9090	40,05	39,75	39,20	37,06	1,607	1,629	1,662	1,717
39	39,00	33,7750	41,05	40,75	40,20	38,06	1,608	1,630	1,663	1,718
40	40,00	34,6410	42,05	41,75	41,20	39,06	1,608	1,630	1,663	1,718
41	41,00	35,5070	43,06	42,76	42,20	40,05	1,608	1,630	1,663	1,719
42	42,00	36,3731	44,06	43,76	43,20	41,05	1,608	1,630	1,664	1,719
43	43,00	37,2391	45,06	44,76	44,20	42,05	1,608	1,630	1,664	1,720
44	44,00	38,1051	46,06	45,76	45,20	43,05	1,608	1,631	1,664	1,720
45	45,00	38,9711	47,06	46,76	46,20	44,05	1,608	1,631	1,665	1,721
46	46,00	39,8372	48,06	47,76	47,20	45,05	1,609	1,631	1,665	1,721
47	47,00	40,7032	49,06	48,76	48,20	46,05	1,609	1,631	1,665	1,722
48	48,00	41,5692	50,06	49,76	49,20	47,05	1,609	1,632	1,666	1,722
49	49,00	42,4352	51,06	50,76	50,20	48,05	1,609	1,632	1,666	1,723
50	50,00	43,3013	52,06	51,76	51,20	49,04	1,609	1,632	1,666	1,723
51	51,00	44,1673	53,06	52,76	52,20	50,04	1,609	1,632	1,666	1,724
52	52,00	45,0333	54,07	53,77	53,20	51,04	1,609	1,632	1,667	1,724
53	53,00	45,8993	55,07	54,77	54,20	52,04	1,609	1,632	1,667	1,725
54	54,00	46,7654	56,07	55,77	55,20	53,04	1,610	1,633	1,667	1,725
55	55,00	47,6314	57,07	56,77	56,20	54,04	1,610	1,633	1,668	1,726
56	56,00	48,4974	58,07	57,77	57,20	55,04	1,610	1,633	1,668	1,726
57	57,00	49,3634	59,07	58,77	58,20	56,04	1,610	1,633	1,668	1,727
58	58,00	50,2295	60,07	59,77	59,20	57,04	1,610	1,633	1,668	1,727
59	59,00	51,0955	61,07	60,77	60,20	58,04	1,610	1,634	1,669	1,727
60	60,00	51,9615	62,07	61,77	61,20	59,04	1,610	1,634	1,669	1,728
61	61,00	52,8275	63,07	62,77	62,20	60,04	1,610	1,634	1,669	1,728
62	62,00	53,6936	64,07	63,77	63,20	61,04	1,610	1,634	1,670	1,729
63	63,00	54,5596	65,07	64,77	64,20	62,03	1,611	1,634	1,670	1,729
64	64,00	55,4256	66,07	65,77	65,20	63,03	1,611	1,634	1,670	1,730
65	65,00	56,2917	67,08	66,78	66,20	64,03	1,611	1,635	1,670	1,730
66	66,00	57,1577	68,08	67,78	67,20	65,03	1,611	1,635	1,671	1,730
67	67,00	58,0237	69,08	68,78	68,20	66,03	1,611	1,635	1,671	1,731
68	68,00	58,8897	70,08	69,78	69,20	67,03	1,611	1,635	1,671	1,731
69	69,00	59,7558	71,08	70,78	70,20	68,03	1,611	1,635	1,671	1,732
70	70,00	60,6218	72,08	71,78	71,20	69,03	1,611	1,635	1,672	1,732
71	71,00	61,4878	73,08	72,78	72,20	70,03	1,611	1,636	1,672	1,732
72	72,00	62,3538	74,08	73,78	73,20	71,03	1,611	1,636	1,672	1,733
73	73,00	63,2199	75,08	74,78	74,20	72,03	1,612	1,636	1,672	1,733
74	74,00	64,0859	76,08	75,78	75,20	73,03	1,612	1,636	1,673	1,733
75	75,00	64,9519	77,08	76,78	76,20	74,03	1,612	1,636	1,673	1,734
76	76,00	65,8179	78,08	77,78	77,20	75,03	1,612	1,636	1,673	1,734
77	77,00	66,6840	79,08	78,78	78,20	76,03	1,612	1,636	1,673	1,735
78	78,00	67,5500	80,08	79,78	79,20	77,03	1,612	1,637	1,673	1,735
79	79,00	68,4160	81,08	80,78	80,20	78,03	1,612	1,637	1,674	1,735
80	80,00	69,2820	82,09	81,79	81,20	79,03	1,612	1,637	1,674	1,736
81	81,00	70,1481	83,09	82,79	82,20	80,03	1,612	1,637	1,674	1,736
82	82,00	71,0141	84,09	83,79	83,20	81,03	1,612	1,637	1,674	1,736
83	83,00	71,8801	85,09	84,79	84,20	82,03	1,612	1,637	1,675	1,737
84	84,00	72,7461	86,09	85,79	85,20	83,03	1,613	1,637	1,675	1,737
85	85,00	73,6122	87,09	86,79	86,20	84,03	1,613	1,638	1,675	1,737
86	86,00	74,4782	88,09	87,79	87,20	85,03	1,613	1,638	1,675	1,738
87	87,00	75,3442	89,09	88,79	88,20	86,03	1,613	1,638	1,675	1,738
88	88,00	76,2102	90,09	89,79	89,20	87,02	1,613	1,638	1,676	1,739
89	89,00	77,0763	91,09	90,79	90,20	88,02	1,613	1,638	1,676	1,739
90	90,00	77,9423	92,09	91,79	91,20	89,02	1,613	1,638	1,676	1,739
91	91,00	78,8083	93,09	92,79	92,20	90,02	1,613	1,638	1,676	1,740
92	92,00	79,6743	94,09	93,79	93,20	91,02	1,613	1,639	1,677	1,740
93	93,00	80,5404	95,09	94,79	94,20	92,02	1,613	1,639	1,677	1,740
94	94,00	81,4064	96,09	95,79	95,20	93,02	1,613	1,639	1,677	1,741
95	95,00	82,2724	97,09	96,79	96,20	94,02	1,613	1,639	1,677	1,741
96	96,00	83,1384	98,09	97,79	97,20	95,02	1,614	1,639	1,677	1,741
97	97,00	84,0045	99,10	98,80	98,20	96,02	1,614	1,639	1,678	1,742
98	98,00	84,8705	100,10	99,80	99,20	97,02	1,614	1,639	1,678	1,742
99	99,00	85,7365	101,10	100,80	100,20	98,02	1,614	1,639	1,678	1,742
100	100,00	86,6025	102,10	101,80	101,20	99,02	1,614	1,640	1,678	1,742

Table 10 — Geometry external spline, $\alpha = 30^\circ$, $m = 1$, flat and fillet root, $S_{v \max} = 1,571$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	6,00	5,1962	7,00	5,23	4,00	4,30	1,542	1,524	1,498	1,454
7	7,00	6,0622	8,00	6,16	4,99	5,29	1,541	1,524	1,497	1,452
8	8,00	6,9282	9,00	7,11	5,99	6,29	1,541	1,523	1,496	1,451
9	9,00	7,7942	10,00	8,07	6,99	7,29	1,541	1,522	1,495	1,449
10	10,00	8,6603	11,00	9,04	7,99	8,29	1,540	1,522	1,494	1,448
11	11,00	9,5263	12,00	10,02	8,98	9,28	1,540	1,521	1,493	1,447
12	12,00	10,3923	13,00	11,00	9,98	10,28	1,540	1,521	1,492	1,445
13	13,00	11,2583	14,00	11,98	10,98	11,28	1,539	1,520	1,492	1,444
14	14,00	12,1244	15,00	12,97	11,98	12,28	1,539	1,520	1,491	1,443
15	15,00	12,9904	16,00	13,96	12,98	13,28	1,539	1,519	1,490	1,442
16	16,00	13,8564	17,00	14,95	13,97	14,27	1,539	1,519	1,490	1,441
17	17,00	14,7224	18,00	15,94	14,97	15,27	1,538	1,519	1,489	1,440
18	18,00	15,5885	19,00	16,93	15,97	16,27	1,538	1,518	1,489	1,439
19	19,00	16,4545	20,00	17,92	16,97	17,27	1,538	1,518	1,488	1,438
20	20,00	17,3205	21,00	18,91	17,97	18,27	1,538	1,518	1,487	1,437
21	21,00	18,1865	22,00	19,91	18,97	19,27	1,537	1,517	1,487	1,437
22	22,00	19,0526	23,00	20,90	19,97	20,27	1,537	1,517	1,486	1,436
23	23,00	19,9186	24,00	21,90	20,96	21,26	1,537	1,517	1,486	1,435
24	24,00	20,7846	25,00	22,89	21,96	22,26	1,537	1,516	1,485	1,434
25	25,00	21,6506	26,00	23,89	22,96	23,26	1,537	1,516	1,485	1,433
26	26,00	22,5167	27,00	24,89	23,96	24,26	1,536	1,516	1,485	1,433
27	27,00	23,3827	28,00	25,88	24,96	25,26	1,536	1,515	1,484	1,432
28	28,00	24,2487	29,00	26,88	25,96	26,26	1,536	1,515	1,484	1,431
29	29,00	25,1147	30,00	27,88	26,96	27,26	1,536	1,515	1,483	1,431
30	30,00	25,9808	31,00	28,87	27,96	28,26	1,536	1,515	1,483	1,430
31	31,00	26,8468	32,00	29,87	28,95	29,25	1,536	1,514	1,482	1,429
32	32,00	27,7128	33,00	30,87	29,95	30,25	1,535	1,514	1,482	1,429
33	33,00	28,5788	34,00	31,87	30,95	31,25	1,535	1,514	1,482	1,428
34	34,00	29,4449	35,00	32,87	31,95	32,25	1,535	1,514	1,481	1,427
35	35,00	30,3109	36,00	33,86	32,95	33,25	1,535	1,513	1,481	1,427
36	36,00	31,1769	37,00	34,86	33,95	34,25	1,535	1,513	1,480	1,426
37	37,00	32,0429	38,00	35,86	34,95	35,25	1,535	1,513	1,480	1,426
38	38,00	32,9090	39,00	36,86	35,95	36,25	1,535	1,513	1,480	1,425
39	39,00	33,7750	40,00	37,86	36,95	37,25	1,534	1,512	1,479	1,424
40	40,00	34,6410	41,00	38,86	37,95	38,25	1,534	1,512	1,479	1,424
41	41,00	35,5070	42,00	39,85	38,94	39,24	1,534	1,512	1,479	1,423
42	42,00	36,3731	43,00	40,85	39,94	40,24	1,534	1,512	1,478	1,423
43	43,00	37,2391	44,00	41,85	40,94	41,24	1,534	1,512	1,478	1,422
44	44,00	38,1051	45,00	42,85	41,94	42,24	1,534	1,511	1,478	1,422
45	45,00	38,9711	46,00	43,85	42,94	43,24	1,534	1,511	1,477	1,421
46	46,00	39,8372	47,00	44,85	43,94	44,24	1,533	1,511	1,477	1,421
47	47,00	40,7032	48,00	45,85	44,94	45,24	1,533	1,511	1,477	1,420
48	48,00	41,5692	49,00	46,85	45,94	46,24	1,533	1,510	1,476	1,420
49	49,00	42,4352	50,00	47,85	46,94	47,24	1,533	1,510	1,476	1,419
50	50,00	43,3013	51,00	48,84	47,94	48,24	1,533	1,510	1,476	1,419
51	51,00	44,1673	52,00	49,84	48,94	49,24	1,533	1,510	1,476	1,418
52	52,00	45,0333	53,00	50,84	49,93	50,23	1,533	1,510	1,475	1,418
53	53,00	45,8993	54,00	51,84	50,93	51,23	1,533	1,510	1,475	1,417
54	54,00	46,7654	55,00	52,84	51,93	52,23	1,532	1,509	1,475	1,417
55	55,00	47,6314	56,00	53,84	52,93	53,23	1,532	1,509	1,474	1,416
56	56,00	48,4974	57,00	54,84	53,93	54,23	1,532	1,509	1,474	1,416
57	57,00	49,3634	58,00	55,84	54,93	55,23	1,532	1,509	1,474	1,415
58	58,00	50,2295	59,00	56,84	55,93	56,23	1,532	1,509	1,474	1,415
59	59,00	51,0955	60,00	57,84	56,93	57,23	1,532	1,508	1,473	1,415
60	60,00	51,9615	61,00	58,84	57,93	58,23	1,532	1,508	1,473	1,414
61	61,00	52,8275	62,00	59,84	58,93	59,23	1,532	1,508	1,473	1,414
62	62,00	53,6936	63,00	60,84	59,93	60,23	1,532	1,508	1,472	1,413
63	63,00	54,5596	64,00	61,83	60,93	61,23	1,531	1,508	1,472	1,413
64	64,00	55,4256	65,00	62,83	61,93	62,23	1,531	1,508	1,472	1,412
65	65,00	56,2917	66,00	63,83	62,92	63,22	1,531	1,507	1,472	1,412
66	66,00	57,1577	67,00	64,83	63,92	64,22	1,531	1,507	1,471	1,412
67	67,00	58,0237	68,00	65,83	64,92	65,22	1,531	1,507	1,471	1,411
68	68,00	58,8897	69,00	66,83	65,92	66,22	1,531	1,507	1,471	1,411
69	69,00	59,7558	70,00	67,83	66,92	67,22	1,531	1,507	1,471	1,410
70	70,00	60,6218	71,00	68,83	67,92	68,22	1,531	1,507	1,470	1,410
71	71,00	61,4878	72,00	69,83	68,92	69,22	1,531	1,506	1,470	1,410
72	72,00	62,3538	73,00	70,83	69,92	70,22	1,531	1,506	1,470	1,409
73	73,00	63,2199	74,00	71,83	70,92	71,22	1,530	1,506	1,470	1,409
74	74,00	64,0859	75,00	72,83	71,92	72,22	1,530	1,506	1,469	1,409
75	75,00	64,9519	76,00	73,83	72,92	73,22	1,530	1,506	1,469	1,408
76	76,00	65,8179	77,00	74,83	73,92	74,22	1,530	1,506	1,469	1,408
77	77,00	66,6840	78,00	75,83	74,92	75,22	1,530	1,506	1,469	1,407
78	78,00	67,5500	79,00	76,83	75,92	76,22	1,530	1,505	1,469	1,407
79	79,00	68,4160	80,00	77,83	76,92	77,22	1,530	1,505	1,468	1,407
80	80,00	69,2820	81,00	78,83	77,91	78,21	1,530	1,505	1,468	1,406
81	81,00	70,1481	82,00	79,83	78,91	79,21	1,530	1,505	1,468	1,406
82	82,00	71,0141	83,00	80,83	79,91	80,21	1,530	1,505	1,468	1,406
83	83,00	71,8801	84,00	81,83	80,91	81,21	1,530	1,505	1,467	1,405
84	84,00	72,7461	85,00	82,83	81,91	82,21	1,529	1,505	1,467	1,405
85	85,00	73,6122	86,00	83,83	82,91	83,21	1,529	1,504	1,467	1,405
86	86,00	74,4782	87,00	84,83	83,91	84,21	1,529	1,504	1,467	1,404
87	87,00	75,3442	88,00	85,83	84,91	85,21	1,529	1,504	1,467	1,404
88	88,00	76,2102	89,00	86,82	85,91	86,21	1,529	1,504	1,466	1,403
89	89,00	77,0763	90,00	87,82	86,91	87,21	1,529	1,504	1,466	1,403
90	90,00	77,9423	91,00	88,82	87,91	88,21	1,529	1,504	1,466	1,403
91	91,00	78,8083	92,00	89,82	88,91	89,21	1,529	1,504	1,466	1,402
92	92,00	79,6743	93,00	90,82	89,91	90,21	1,529	1,503	1,465	1,402
93	93,00	80,5404	94,00	91,82	90,91	91,21	1,529	1,503	1,465	1,402
94	94,00	81,4064	95,00	92,82	91,91	92,21	1,529	1,503	1,465	1,401
95	95,00	82,2724	96,00	93,82	92,91	93,21	1,529	1,503	1,465	1,401
96	96,00	83,1384	97,00	94,82	93,91	94,21	1,528	1,503	1,465	1,401
97	97,00	84,0045	98,00	95,82	94,90	95,20	1,528	1,503	1,464	1,400
98	98,00	84,8705	99,00	96,82	95,90	96,20	1,528	1,503	1,464	1,400
99	99,00	85,7365	100,00	97,82	96,90	97,20	1,528	1,503	1,464	1,400
100	100,00	86,6025	101,00	98,82	97,90	98,20	1,528	1,502	1,464	1,400

Table 11 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 1$, flat or fillet root, $E_{v \min} = 1,571$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	1,70	5,475	5,532	5,493	5,584	5,519	5,657	5,559	5,767	2,322
9	1,70	6,390	6,438	6,405	6,484	6,427	6,549	6,462	6,651	2,164
10	1,70	7,538	7,583	7,553	7,627	7,573	7,690	7,606	7,790	2,117
11	1,70	8,450	8,492	8,463	8,533	8,483	8,594	8,514	8,691	2,040
12	1,70	9,566	9,607	9,579	9,648	9,599	9,708	9,629	9,805	2,019
13	1,80	10,120	10,165	10,135	10,210	10,156	10,276	10,190	10,381	2,161
14	1,80	11,224	11,267	11,239	11,312	11,260	11,376	11,293	11,480	2,123
15	1,80	12,160	12,202	12,174	12,245	12,195	12,308	12,227	12,409	2,069
16	1,80	13,247	13,288	13,262	13,331	13,282	13,393	13,314	13,494	2,046
17	1,80	14,188	14,228	14,202	14,269	14,221	14,331	14,253	14,431	2,009
18	1,80	15,263	15,303	15,277	15,344	15,297	15,406	15,328	15,505	1,994
19	1,80	16,208	16,247	16,222	16,288	16,241	16,348	16,272	16,447	1,968
20	1,80	17,275	17,314	17,289	17,354	17,308	17,415	17,340	17,514	1,957
21	1,80	18,224	18,262	18,238	18,302	18,257	18,363	18,288	18,461	1,937
22	1,80	19,284	19,322	19,298	19,363	19,317	19,423	19,348	19,521	1,929
23	1,80	20,237	20,274	20,250	20,314	20,270	20,374	20,301	20,473	1,913
24	1,80	21,291	21,329	21,305	21,369	21,325	21,429	21,356	21,528	1,907
25	1,80	22,247	22,284	22,261	22,324	22,280	22,384	22,311	22,483	1,894
26	1,80	23,297	23,334	23,311	23,374	23,331	23,434	23,362	23,533	1,890
27	1,80	24,256	24,292	24,270	24,333	24,289	24,392	24,321	24,491	1,879
28	1,80	25,302	25,339	25,316	25,379	25,336	25,439	25,367	25,538	1,875
29	1,80	26,263	26,300	26,277	26,340	26,297	26,400	26,329	26,499	1,866
30	1,80	27,307	27,343	27,321	27,383	27,341	27,443	27,372	27,542	1,863
31	1,80	28,270	28,306	28,284	28,346	28,304	28,406	28,336	28,506	1,856
32	1,80	29,310	29,346	29,325	29,387	29,345	29,447	29,376	29,546	1,853
33	1,80	30,276	30,311	30,290	30,352	30,310	30,412	30,342	30,512	1,846
34	1,80	31,314	31,349	31,328	31,390	31,348	31,450	31,380	31,550	1,844
35	1,80	32,281	32,316	32,295	32,357	32,316	32,417	32,348	32,517	1,839
36	1,80	33,317	33,352	33,331	33,393	33,351	33,453	33,384	33,553	1,837
37	1,80	34,285	34,321	34,300	34,361	34,320	34,422	34,353	34,522	1,832
38	1,80	35,319	35,354	35,334	35,395	35,354	35,456	35,387	35,557	1,830
39	1,80	36,289	36,325	36,304	36,365	36,325	36,426	36,357	36,527	1,826
40	1,80	37,321	37,357	37,336	37,397	37,357	37,459	37,390	37,560	1,824
41	1,80	38,293	38,328	38,308	38,369	38,329	38,430	38,362	38,531	1,820
42	1,80	39,324	39,359	39,339	39,400	39,360	39,461	39,393	39,562	1,819
43	1,80	40,296	40,331	40,311	40,372	40,333	40,434	40,366	40,535	1,815
44	1,80	41,326	41,360	41,341	41,402	41,362	41,463	41,395	41,565	1,814
45	1,80	42,300	42,334	42,315	42,376	42,336	42,437	42,369	42,539	1,811
46	1,80	43,327	43,362	43,343	43,403	43,364	43,465	43,398	43,568	1,810
47	1,80	44,302	44,337	44,318	44,378	44,339	44,440	44,373	44,543	1,807
48	1,80	45,329	45,364	45,344	45,405	45,366	45,467	45,400	45,570	1,806
49	1,80	46,305	46,340	46,321	46,381	46,342	46,443	46,376	46,546	1,803
50	1,80	47,331	47,365	47,346	47,407	47,368	47,469	47,402	47,572	1,803
51	1,80	48,308	48,342	48,323	48,384	48,345	48,446	48,379	48,550	1,800
52	1,80	49,332	49,366	49,348	49,408	49,370	49,471	49,404	49,575	1,799
53	1,80	50,310	50,344	50,326	50,386	50,348	50,449	50,382	50,553	1,797
54	1,80	51,333	51,368	51,349	51,410	51,371	51,472	51,406	51,577	1,797
55	1,80	52,312	52,346	52,328	52,388	52,350	52,451	52,385	52,555	1,794
56	1,80	53,335	53,369	53,351	53,411	53,373	53,474	53,408	53,579	1,794
57	1,80	54,314	54,348	54,330	54,390	54,353	54,453	54,388	54,558	1,792
58	1,80	55,336	55,370	55,352	55,412	55,375	55,476	55,410	55,581	1,791
59	1,80	56,316	56,350	56,332	56,392	56,355	56,456	56,390	56,561	1,790
60	1,80	57,337	57,371	57,353	57,413	57,376	57,477	57,412	57,583	1,789
61	1,80	58,318	58,351	58,334	58,394	58,357	58,458	58,393	58,563	1,787
62	1,80	59,338	59,372	59,355	59,415	59,378	59,478	59,413	59,584	1,787
63	1,80	60,319	60,353	60,336	60,396	60,359	60,460	60,395	60,566	1,785
64	1,80	61,339	61,373	61,356	61,416	61,379	61,480	61,415	61,586	1,785
65	1,80	62,321	62,355	62,338	62,398	62,361	62,462	62,397	62,568	1,783
66	1,80	63,340	63,374	63,357	63,417	63,380	63,481	63,417	63,588	1,783
67	1,80	64,322	64,356	64,339	64,399	64,363	64,464	64,399	64,571	1,782
68	1,80	65,341	65,375	65,358	65,418	65,382	65,482	65,418	65,590	1,781
69	1,80	66,324	66,357	66,341	66,401	66,365	66,466	66,401	66,573	1,780
70	1,80	67,342	67,375	67,359	67,419	67,383	67,484	67,420	67,591	1,780
71	1,80	68,325	68,359	68,342	68,402	68,366	68,467	68,403	68,575	1,779
72	1,80	69,343	69,376	69,360	69,420	69,384	69,485	69,421	69,593	1,778
73	1,80	70,327	70,360	70,344	70,404	70,368	70,469	70,405	70,577	1,777
74	1,80	71,344	71,377	71,361	71,421	71,385	71,486	71,423	71,595	1,777
75	1,80	72,328	72,361	72,345	72,405	72,370	72,470	72,407	72,579	1,776
76	1,80	73,345	73,378	73,362	73,422	73,386	73,487	73,424	73,596	1,775
77	1,80	74,329	74,362	74,347	74,406	74,371	74,472	74,409	74,581	1,774
78	1,80	75,345	75,378	75,363	75,422	75,387	75,488	75,426	75,598	1,774
79	1,80	76,330	76,363	76,348	76,407	76,373	76,473	76,411	76,583	1,773
80	1,80	77,346	77,379	77,364	77,423	77,389	77,489	77,427	77,599	1,773
81	1,80	78,331	78,364	78,349	78,409	78,374	78,475	78,412	78,585	1,772
82	1,80	79,347	79,380	79,365	79,424	79,390	79,491	79,428	79,601	1,772
83	1,80	80,332	80,365	80,350	80,410	80,375	80,476	80,414	80,587	1,771
84	1,80	81,348	81,381	81,365	81,425	81,391	81,491	81,429	81,602	1,771
85	1,80	82,334	82,366	82,351	82,411	82,377	82,478	82,416	82,588	1,770
86	1,80	83,348	83,381	83,366	83,426	83,392	83,492	83,431	83,603	1,770
87	1,80	84,335	84,367	84,353	84,412	84,378	84,479	84,417	84,590	1,769
88	1,80	85,349	85,382	85,367	85,426	85,393	85,493	85,432	85,605	1,769
89	1,80	86,335	86,368	86,354	86,413	86,379	86,480	86,419	86,592	1,768
90	1,80	87,350	87,382	87,368	87,427	87,394	87,494	87,433	87,606	1,768
91	1,80	88,336	88,369	88,355	88,414	88,381	88,481	88,420	88,593	1,767
92	1,80	89,350	89,383	89,369	89,428	89,394	89,495	89,434	89,607	1,767
93	1,80	90,337	90,370	90,356	90,415	90,382	90,483	90,422	90,595	1,766
94	1,80	91,351	91,383	91,369	91,429	91,395	91,496	91,436	91,609	1,766
95	1,80	92,338	92,371	92,357	92,416	92,383	92,484	92,423	92,596	1,765
96	1,80	93,351	93,384	93,370	93,429	93,396	93,497	93,437	93,610	1,765
97	1,80	94,339	94,371	94,358	94,417	94,384	94,485	94,425	94,598	1,765
98	1,80	95,352	95,384	95,371	95,430	95,397	95,498	95,438	95,611	1,764
99	1,80	96,340	96,372	96,359	96,					

Table 12 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 1$, fillet root, $S_{v \max} = 1,571$

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	2,24	9,615	9,636	9,593	9,630	9,561	9,620	9,507	9,604	1,239
7	2,24	10,429	10,451	10,408	10,445	10,375	10,435	10,320	10,419	1,238
8	2,12	11,362	11,386	11,339	11,379	11,303	11,368	11,243	11,350	1,331
9	2,12	12,222	12,245	12,198	12,238	12,161	12,227	12,101	12,209	1,334
10	2,12	13,390	13,415	13,365	13,407	13,328	13,396	13,264	13,377	1,376
11	2,00	13,966	13,992	13,940	13,983	13,901	13,971	13,835	13,952	1,418
12	2,00	15,097	15,123	15,070	15,114	15,029	15,102	14,961	15,082	1,449
13	2,00	16,001	16,027	15,973	16,018	15,932	16,006	15,864	15,985	1,453
14	2,00	17,109	17,136	17,081	17,127	17,039	17,114	16,969	17,094	1,477
15	2,00	18,026	18,053	17,998	18,044	17,956	18,031	17,884	18,010	1,480
16	2,00	19,119	19,147	19,091	19,137	19,047	19,124	18,975	19,102	1,499
17	2,00	20,046	20,074	20,017	20,064	19,974	20,051	19,900	20,029	1,503
18	2,00	21,128	21,155	21,098	21,146	21,053	21,132	20,979	21,110	1,518
19	2,00	22,062	22,090	22,033	22,081	21,988	22,066	21,912	22,044	1,521
20	2,00	23,134	23,163	23,104	23,153	23,058	23,138	22,982	23,115	1,534
21	1,90	23,799	23,828	23,768	23,818	23,721	23,803	23,643	23,779	1,566
22	1,90	24,863	24,892	24,831	24,881	24,784	24,866	24,704	24,842	1,576
23	1,90	25,808	25,838	25,777	25,827	25,729	25,812	25,649	25,787	1,578
24	1,90	26,866	26,895	26,834	26,884	26,785	26,869	26,704	26,844	1,587
25	1,90	27,816	27,846	27,784	27,835	27,735	27,819	27,654	27,794	1,589
26	1,90	28,869	28,898	28,836	28,887	28,787	28,872	28,705	28,846	1,596
27	1,90	29,823	29,853	29,790	29,841	29,740	29,825	29,657	29,800	1,598
28	1,90	30,871	30,901	30,838	30,890	30,788	30,874	30,704	30,848	1,605
29	1,90	31,829	31,858	31,795	31,847	31,745	31,831	31,661	31,805	1,606
30	1,90	32,874	32,904	32,840	32,892	32,789	32,875	32,704	32,849	1,612
31	1,90	33,834	33,864	33,800	33,852	33,749	33,835	33,663	33,809	1,613
32	1,90	34,786	34,816	34,841	34,894	34,790	34,877	34,704	34,850	1,619
33	1,90	35,838	35,868	35,804	35,856	35,752	35,839	35,665	35,812	1,620
34	1,90	36,877	36,907	36,843	36,895	36,791	36,878	36,703	36,851	1,624
35	1,90	37,842	37,872	37,807	37,860	37,755	37,842	37,667	37,815	1,626
36	1,90	38,879	38,909	38,844	38,897	38,791	38,879	38,703	38,851	1,630
37	1,90	39,845	39,876	39,810	39,863	39,757	39,845	39,668	39,817	1,631
38	1,90	40,880	40,910	40,845	40,898	40,791	40,880	40,702	40,852	1,635
39	1,90	41,848	41,879	41,813	41,866	41,759	41,848	41,669	41,820	1,636
40	1,90	42,881	42,912	42,845	42,899	42,792	42,881	42,701	42,852	1,639
41	1,90	43,851	43,881	43,815	43,868	43,761	43,850	43,670	43,821	1,640
42	1,90	44,882	44,913	44,846	44,900	44,792	44,881	44,701	44,852	1,643
43	1,90	45,853	45,884	45,817	45,871	45,762	45,852	45,671	45,823	1,644
44	1,90	46,883	46,914	46,847	46,900	46,792	46,882	46,700	46,852	1,647
45	1,90	47,856	47,886	47,819	47,873	47,764	47,854	47,671	47,824	1,648
46	1,90	48,884	48,915	48,847	48,901	48,792	48,882	48,699	48,852	1,650
47	1,90	49,858	49,888	49,821	49,875	49,765	49,855	49,672	49,825	1,651
48	1,90	50,885	50,915	50,847	50,902	50,792	50,882	50,698	50,852	1,653
49	1,90	51,859	51,890	51,822	51,876	51,766	51,857	51,672	51,826	1,654
50	1,90	52,885	52,916	52,848	52,902	52,791	52,883	52,697	52,852	1,656
51	1,90	53,861	53,892	53,823	53,878	53,767	53,858	53,672	53,827	1,657
52	1,90	54,886	54,917	54,848	54,903	54,791	54,883	54,696	54,852	1,659
53	1,90	55,862	55,893	55,825	55,879	55,768	55,859	55,672	55,828	1,660
54	1,90	56,886	56,917	56,848	56,903	56,791	56,883	56,695	56,851	1,662
55	1,90	57,864	57,895	57,826	57,880	57,768	57,860	57,672	57,828	1,662
56	1,90	58,887	58,918	58,849	58,903	58,791	58,883	58,694	58,851	1,664
57	1,90	59,865	59,896	59,827	59,881	59,769	59,861	59,672	59,829	1,665
58	1,90	60,887	60,918	60,849	60,904	60,791	60,883	60,693	60,851	1,666
59	1,90	61,866	61,897	61,828	61,882	61,769	61,862	61,672	61,829	1,667
60	1,90	62,888	62,919	62,849	62,904	62,790	62,883	62,692	62,850	1,668
61	1,90	63,867	63,898	63,828	63,883	63,770	63,862	63,671	63,830	1,669
62	1,90	64,888	64,919	64,849	64,904	64,790	64,883	64,691	64,850	1,670
63	1,90	65,868	65,899	65,829	65,884	65,770	65,863	65,671	65,830	1,671
64	1,90	66,888	66,919	66,849	66,904	66,790	66,883	66,690	66,850	1,672
65	1,90	67,869	67,900	67,830	67,885	67,770	67,864	67,671	67,830	1,673
66	1,90	68,889	68,920	68,849	68,904	68,789	68,883	68,689	68,849	1,674
67	1,90	69,870	69,901	69,830	69,886	69,770	69,864	69,670	69,830	1,674
68	1,90	70,889	70,920	70,849	70,904	70,789	70,883	70,689	70,849	1,676
69	1,90	71,871	71,902	71,831	71,886	71,771	71,864	71,670	71,830	1,676
70	1,90	72,889	72,920	72,849	72,904	72,789	72,882	72,688	72,848	1,677
71	1,90	73,872	73,903	73,831	73,887	73,771	73,865	73,670	73,830	1,678
72	1,90	74,889	74,920	74,849	74,904	74,788	74,882	74,687	74,848	1,679
73	1,90	75,872	75,903	75,832	75,887	75,771	75,865	75,669	75,830	1,679
74	1,90	76,890	76,920	76,849	76,904	76,788	76,882	76,686	76,847	1,680
75	1,90	77,873	77,904	77,832	77,888	77,771	77,865	77,669	77,830	1,680
76	1,90	78,890	78,921	78,849	78,904	78,787	78,882	78,685	78,846	1,682
77	1,90	79,874	79,904	79,833	79,888	79,771	79,865	79,668	79,830	1,682
78	1,90	80,890	80,921	80,849	80,904	80,787	80,882	80,684	80,846	1,683
79	1,90	81,874	81,905	81,833	81,889	81,771	81,866	81,667	81,830	1,683
80	1,90	82,890	82,921	82,849	82,904	82,787	82,881	82,683	82,845	1,684
81	1,90	83,875	83,906	83,833	83,889	83,771	83,866	83,667	83,830	1,684
82	1,90	84,890	84,921	84,849	84,904	84,786	84,881	84,682	84,845	1,685
83	1,90	85,875	85,906	85,834	85,889	85,771	85,866	85,666	85,829	1,685
84	1,90	86,890	86,921	86,848	86,904	86,786	86,881	86,681	86,844	1,686
85	1,90	87,876	87,906	87,834	87,890	87,771	87,866	87,666	87,829	1,687
86	1,90	88,890	88,921	88,848	88,904	88,785	88,880	88,680	88,844	1,687
87	1,90	89,876	89,907	89,834	89,890	89,771	89,866	89,665	89,829	1,688
88	1,90	90,890	90,921	90,848	90,904	90,785	90,880	90,679	90,843	1,688
89	1,90	91,876	91,907	91,834	91,890	91,771	91,866	91,665	91,829	1,689
90	1,90	92,890	92,921	92,848	92,904	92,784	92,880	92,678	92,842	1,689
91	1,90	93,877	93,907	93,834	93,890	93,771	93,866	93,664	93,828	1,690
92	1,90	94,891	94,921	94,848	94,904	94,784	94,879	94,677	94,842	1,690
93	1,90	95,877	95,908	95,834	95,890	95,770	95,866	95,663	95,828	1,690
94	1,90	96,891	96,921	96,848	96,904	96,784	96,879	96,676	96,841	1,691
95	1,90	97,877	97,908	97,835	97,890	97,770	97,866	97,663	97,828	1,691
96	1,90									

5.4 30° pressure angle, module 1,25

Table 13 — Geometry internal spline, $\alpha = 30^\circ$, $m = 1,25$, flat and fillet root, $E_{v \min} = 1,963$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{ii \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	7,50	6,4952	9,97	9,59	9,00	6,79	1,994	2,013	2,042	2,089
7	8,75	7,5777	11,22	10,85	10,25	7,95	1,995	2,014	2,043	2,091
8	10,00	8,6603	12,47	12,10	11,50	9,14	1,995	2,015	2,044	2,093
9	11,25	9,7428	13,73	13,35	12,75	10,34	1,996	2,015	2,045	2,094
10	12,50	10,8253	14,98	14,60	14,00	11,55	1,996	2,016	2,046	2,096
11	13,75	11,9078	16,23	15,86	15,25	12,77	1,997	2,017	2,047	2,097
12	15,00	12,9904	17,48	17,11	16,50	14,00	1,997	2,017	2,048	2,098
13	16,25	14,0729	18,74	18,36	17,75	15,23	1,997	2,018	2,048	2,100
14	17,50	15,1554	19,99	19,61	19,00	16,46	1,997	2,018	2,049	2,101
15	18,75	16,2380	21,24	20,87	20,25	17,69	1,998	2,019	2,050	2,102
16	20,00	17,3205	22,49	22,12	21,50	18,93	1,998	2,019	2,051	2,103
17	21,25	18,4030	23,74	23,37	22,75	20,17	1,998	2,019	2,051	2,104
18	22,50	19,4856	25,00	24,62	24,00	21,41	1,999	2,020	2,052	2,105
19	23,75	20,5681	26,25	25,87	25,25	22,65	1,999	2,020	2,052	2,106
20	25,00	21,6506	27,50	27,12	26,50	23,89	1,999	2,021	2,053	2,107
21	26,25	22,7332	28,75	28,38	27,75	25,14	1,999	2,021	2,054	2,108
22	27,50	23,8157	30,00	29,63	29,00	26,38	1,999	2,021	2,054	2,109
23	28,75	24,8982	31,25	30,88	30,25	27,62	2,000	2,022	2,055	2,110
24	30,00	25,9808	32,51	32,13	31,50	28,87	2,000	2,022	2,055	2,111
25	31,25	27,0633	33,76	33,38	32,75	30,11	2,000	2,022	2,056	2,111
26	32,50	28,1458	35,01	34,63	34,00	31,36	2,000	2,023	2,056	2,112
27	33,75	29,2284	36,26	35,88	35,25	32,60	2,000	2,023	2,057	2,113
28	35,00	30,3109	37,51	37,14	36,50	33,85	2,001	2,023	2,057	2,114
29	36,25	31,3934	38,76	38,39	37,75	35,10	2,001	2,024	2,058	2,114
30	37,50	32,4760	40,01	39,64	39,00	36,34	2,001	2,024	2,058	2,115
31	38,75	33,5585	41,26	40,89	40,25	37,59	2,001	2,024	2,059	2,116
32	40,00	34,6410	42,52	42,14	41,50	38,84	2,001	2,024	2,059	2,117
33	41,25	35,7235	43,77	43,39	42,75	40,08	2,002	2,025	2,059	2,117
34	42,50	36,8061	45,02	44,64	44,00	41,33	2,002	2,025	2,060	2,118
35	43,75	37,8886	46,27	45,89	45,25	42,58	2,002	2,025	2,060	2,119
36	45,00	38,9711	47,52	47,15	46,50	43,83	2,002	2,026	2,061	2,119
37	46,25	40,0537	48,77	48,40	47,75	45,08	2,002	2,026	2,061	2,120
38	47,50	41,1362	50,02	49,65	49,00	46,32	2,002	2,026	2,061	2,121
39	48,75	42,2187	51,27	50,90	50,25	47,57	2,003	2,026	2,062	2,121
40	50,00	43,3013	52,53	52,15	51,50	48,82	2,003	2,027	2,062	2,122
41	51,25	44,3838	53,78	53,40	52,75	50,07	2,003	2,027	2,063	2,122
42	52,50	45,4663	55,03	54,65	54,00	51,32	2,003	2,027	2,063	2,123
43	53,75	46,5489	56,28	55,90	55,25	52,56	2,003	2,027	2,063	2,124
44	55,00	47,6314	57,53	57,15	56,50	53,81	2,003	2,027	2,064	2,124
45	56,25	48,7139	58,78	58,41	57,75	55,06	2,003	2,028	2,064	2,125
46	57,50	49,7965	60,03	59,66	59,00	56,31	2,004	2,028	2,064	2,125
47	58,75	50,8790	61,28	60,91	60,25	57,56	2,004	2,028	2,065	2,126
48	60,00	51,9615	62,53	62,16	61,50	58,81	2,004	2,028	2,065	2,126
49	61,25	53,0441	63,78	63,41	62,75	60,06	2,004	2,029	2,065	2,127
50	62,50	54,1266	65,03	64,66	64,00	61,31	2,004	2,029	2,066	2,127
51	63,75	55,2091	66,29	65,91	65,25	62,55	2,004	2,029	2,066	2,128
52	65,00	56,2917	67,54	67,16	66,50	63,80	2,004	2,029	2,066	2,128
53	66,25	57,3742	68,79	68,41	67,75	65,05	2,004	2,029	2,067	2,129
54	67,50	58,4567	70,04	69,66	69,00	66,30	2,005	2,030	2,067	2,129
55	68,75	59,5392	71,29	70,91	70,25	67,55	2,005	2,030	2,067	2,130
56	70,00	60,6218	72,54	72,17	71,50	68,80	2,005	2,030	2,068	2,130
57	71,25	61,7043	73,79	73,42	72,75	70,05	2,005	2,030	2,068	2,131
58	72,50	62,7868	75,04	74,67	74,00	71,30	2,005	2,030	2,068	2,131
59	73,75	63,8694	76,29	75,92	75,25	72,55	2,005	2,031	2,069	2,132
60	75,00	64,9519	77,54	77,17	76,50	73,80	2,005	2,031	2,069	2,132
61	76,25	66,0344	78,79	78,42	77,75	75,05	2,005	2,031	2,069	2,133
62	77,50	67,1170	80,04	79,67	79,00	76,29	2,006	2,031	2,069	2,133
63	78,75	68,1995	81,30	80,92	80,25	77,54	2,006	2,031	2,070	2,134
64	80,00	69,2820	82,55	82,17	81,50	78,79	2,006	2,031	2,070	2,134
65	81,25	70,3646	83,80	83,42	82,75	80,04	2,006	2,032	2,070	2,135
66	82,50	71,4471	85,05	84,67	84,00	81,29	2,006	2,032	2,071	2,135
67	83,75	72,5296	86,30	85,92	85,25	82,54	2,006	2,032	2,071	2,136
68	85,00	73,6122	87,55	87,17	86,50	83,79	2,006	2,032	2,071	2,136
69	86,25	74,6947	88,80	88,43	87,75	85,04	2,006	2,032	2,071	2,136
70	87,50	75,7772	90,05	89,68	89,00	86,29	2,006	2,033	2,072	2,137
71	88,75	76,8598	91,30	90,93	90,25	87,54	2,007	2,033	2,072	2,137
72	90,00	77,9423	92,55	92,18	91,50	88,79	2,007	2,033	2,072	2,138
73	91,25	79,0248	93,80	93,43	92,75	90,04	2,007	2,033	2,072	2,138
74	92,50	80,1073	95,05	94,68	94,00	91,29	2,007	2,033	2,073	2,139
75	93,75	81,1899	96,30	95,93	95,25	92,54	2,007	2,033	2,073	2,139
76	95,00	82,2724	97,56	97,18	96,50	93,79	2,007	2,034	2,073	2,139
77	96,25	83,3549	98,81	98,43	97,75	95,04	2,007	2,034	2,074	2,140
78	97,50	84,4375	100,06	99,68	99,00	96,29	2,007	2,034	2,074	2,140
79	98,75	85,5200	101,31	100,93	100,25	97,53	2,007	2,034	2,074	2,141
80	100,00	86,6025	102,56	102,18	101,50	98,78	2,008	2,034	2,074	2,141
81	101,25	87,6851	103,81	103,43	102,75	100,03	2,008	2,034	2,075	2,141
82	102,50	88,7676	105,06	104,68	104,00	101,28	2,008	2,035	2,075	2,142
83	103,75	89,8501	106,31	105,94	105,25	102,53	2,008	2,035	2,075	2,142
84	105,00	90,9327	107,56	107,19	106,50	103,78	2,008	2,035	2,075	2,143
85	106,25	92,0152	108,81	108,44	107,75	105,03	2,008	2,035	2,075	2,143
86	107,50	93,0977	110,06	109,69	109,00	106,28	2,008	2,035	2,076	2,143
87	108,75	94,1803	111,31	110,94	110,25	107,53	2,008	2,035	2,076	2,144
88	110,00	95,2628	112,56	112,19	111,50	108,78	2,008	2,035	2,076	2,144
89	111,25	96,3453	113,81	113,44	112,75	110,03	2,008	2,036	2,076	2,144
90	112,50	97,4279	115,06	114,69	114,00	111,28	2,008	2,036	2,077	2,145
91	113,75	98,5104	116,32	115,94	115,25	112,53	2,009	2,036	2,077	2,145
92	115,00	99,5929	117,57	117,19	116,50	113,78	2,009	2,036	2,077	2,146
93	116,25	100,6755	118,82	118,44	117,75	115,03	2,009	2,036	2,077	2,146
94	117,50	101,7580	120,07	119,69	119,00	116,28	2,009	2,036	2,078	2,146
95	118,75	102,8405	121,32	120,94	120,25	117,53	2,009	2,036	2,078	2,147
96	120,00	103,9230	122,57	122,19	121,50	118,78	2,009	2,037	2,078	2,147
97	121,25	105,0056	123,82	123,44	122,75	120,03	2,009	2,037	2,078	2,147
98	122,50	106,0881	125,07	124,70	124,00	121,28	2,009	2,037	2,078	2,148
99	123,75	107,1706	126,32	125,95	125,25	122,53	2,009	2,037	2,079	2,148
100	125,00	108,2532	127,57	127,20	126,50	123,78	2,009	2,037	2,079	2,148

Table 14 — Geometry external spline, $\alpha = 30^\circ$, $m = 1,25$, flat and fillet root, $S_{v \max} = 1,963$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	7,50	6,4952	8,75	6,54	5,03	5,41	1,932	1,913	1,884	1,837
7	8,75	7,5777	10,00	7,70	6,28	6,65	1,931	1,912	1,883	1,835
8	10,00	8,6603	11,25	8,89	7,53	7,90	1,931	1,911	1,882	1,833
9	11,25	9,7428	12,50	10,09	8,77	9,15	1,930	1,911	1,881	1,832
10	12,50	10,8253	13,75	11,30	10,02	10,40	1,930	1,910	1,880	1,830
11	13,75	11,9078	15,00	12,52	11,27	11,64	1,929	1,909	1,879	1,829
12	15,00	12,9904	16,25	13,75	12,52	12,89	1,929	1,909	1,878	1,828
13	16,25	14,0729	17,50	14,98	13,76	14,14	1,929	1,908	1,878	1,826
14	17,50	15,1554	18,75	16,21	15,01	15,39	1,929	1,908	1,877	1,825
15	18,75	16,2380	20,00	17,44	16,26	16,63	1,928	1,907	1,876	1,824
16	20,00	17,3205	21,25	18,68	17,51	17,88	1,928	1,907	1,875	1,823
17	21,25	18,4030	22,50	19,92	18,76	19,13	1,928	1,907	1,875	1,822
18	22,50	19,4856	23,75	21,16	20,00	20,38	1,927	1,906	1,874	1,821
19	23,75	20,5681	25,00	22,40	21,25	21,63	1,927	1,906	1,874	1,820
20	25,00	21,6506	26,25	23,64	22,50	22,88	1,927	1,905	1,873	1,819
21	26,25	22,7332	27,50	24,89	23,75	24,12	1,927	1,905	1,872	1,818
22	27,50	23,8157	28,75	26,13	25,00	25,37	1,927	1,905	1,872	1,817
23	28,75	24,8982	30,00	27,37	26,25	26,62	1,926	1,904	1,871	1,816
24	30,00	25,9808	31,25	28,62	27,49	27,87	1,926	1,904	1,871	1,815
25	31,25	27,0633	32,50	29,86	28,74	29,12	1,926	1,904	1,870	1,815
26	32,50	28,1458	33,75	31,11	29,99	30,37	1,926	1,903	1,870	1,814
27	33,75	29,2284	35,00	32,35	31,24	31,62	1,926	1,903	1,869	1,813
28	35,00	30,3109	36,25	33,60	32,49	32,86	1,925	1,903	1,869	1,812
29	36,25	31,3934	37,50	34,85	33,74	34,11	1,925	1,902	1,868	1,812
30	37,50	32,4760	38,75	36,09	34,99	35,36	1,925	1,902	1,868	1,811
31	38,75	33,5585	40,00	37,34	36,24	36,61	1,925	1,902	1,867	1,810
32	40,00	34,6410	41,25	38,59	37,48	37,86	1,925	1,902	1,867	1,809
33	41,25	35,7235	42,50	39,83	38,73	39,11	1,924	1,901	1,867	1,809
34	42,50	36,8061	43,75	41,08	39,98	40,36	1,924	1,901	1,866	1,808
35	43,75	37,8886	45,00	42,33	41,23	41,61	1,924	1,901	1,866	1,807
36	45,00	38,9711	46,25	43,58	42,48	42,85	1,924	1,900	1,865	1,807
37	46,25	40,0537	47,50	44,83	43,73	44,10	1,924	1,900	1,865	1,806
38	47,50	41,1362	48,75	46,07	44,98	45,35	1,924	1,900	1,865	1,805
39	48,75	42,2187	50,00	47,32	46,23	46,60	1,923	1,900	1,864	1,805
40	50,00	43,3013	51,25	48,57	47,47	47,85	1,923	1,899	1,864	1,804
41	51,25	44,3838	52,50	49,82	48,72	49,10	1,923	1,899	1,863	1,804
42	52,50	45,4663	53,75	51,07	49,97	50,35	1,923	1,899	1,863	1,803
43	53,75	46,5489	55,00	52,31	51,22	51,60	1,923	1,899	1,863	1,802
44	55,00	47,6314	56,25	53,56	52,47	52,85	1,923	1,899	1,862	1,802
45	56,25	48,7139	57,50	54,81	53,72	54,09	1,923	1,898	1,862	1,801
46	57,50	49,7965	58,75	56,06	54,97	55,34	1,922	1,898	1,862	1,801
47	58,75	50,8790	60,00	57,31	56,22	56,59	1,922	1,898	1,861	1,800
48	60,00	51,9615	61,25	58,56	57,47	57,84	1,922	1,898	1,861	1,800
49	61,25	53,0441	62,50	59,81	58,72	59,09	1,922	1,897	1,861	1,799
50	62,50	54,1266	63,75	61,06	59,97	60,34	1,922	1,897	1,860	1,799
51	63,75	55,2091	65,00	62,30	61,21	61,59	1,922	1,897	1,860	1,798
52	65,00	56,2917	66,25	63,55	62,46	62,84	1,922	1,897	1,860	1,798
53	66,25	57,3742	67,50	64,80	63,71	64,09	1,922	1,897	1,859	1,797
54	67,50	58,4567	68,75	66,05	64,96	65,34	1,921	1,896	1,859	1,797
55	68,75	59,5392	70,00	67,30	66,21	66,59	1,921	1,896	1,859	1,796
56	70,00	60,6218	71,25	68,55	67,46	67,83	1,921	1,896	1,858	1,796
57	71,25	61,7043	72,50	69,80	68,71	69,08	1,921	1,896	1,858	1,795
58	72,50	62,7868	73,75	71,05	69,96	70,33	1,921	1,896	1,858	1,795
59	73,75	63,8694	75,00	72,30	71,21	71,58	1,921	1,895	1,857	1,794
60	75,00	64,9519	76,25	73,55	72,46	72,83	1,921	1,895	1,857	1,794
61	76,25	66,0344	77,50	74,80	73,71	74,08	1,921	1,895	1,857	1,793
62	77,50	67,1170	78,75	76,04	74,96	75,33	1,920	1,895	1,857	1,793
63	78,75	68,1995	80,00	77,29	76,20	76,58	1,920	1,895	1,856	1,792
64	80,00	69,2820	81,25	78,54	77,45	77,83	1,920	1,895	1,856	1,792
65	81,25	70,3646	82,50	79,79	78,70	79,08	1,920	1,894	1,856	1,791
66	82,50	71,4471	83,75	81,04	79,95	80,33	1,920	1,894	1,855	1,791
67	83,75	72,5296	85,00	82,29	81,20	81,58	1,920	1,894	1,855	1,790
68	85,00	73,6122	86,25	83,54	82,45	82,83	1,920	1,894	1,855	1,790
69	86,25	74,6947	87,50	84,79	83,70	84,07	1,920	1,894	1,855	1,790
70	87,50	75,7772	88,75	86,04	84,95	85,32	1,920	1,893	1,854	1,789
71	88,75	76,8598	90,00	87,29	86,20	86,57	1,919	1,893	1,854	1,789
72	90,00	77,9423	91,25	88,54	87,45	87,82	1,919	1,893	1,854	1,788
73	91,25	79,0248	92,50	89,79	88,70	89,07	1,919	1,893	1,854	1,788
74	92,50	80,1073	93,75	91,04	89,95	90,32	1,919	1,893	1,853	1,787
75	93,75	81,1899	95,00	92,29	91,20	91,57	1,919	1,893	1,853	1,787
76	95,00	82,2724	96,25	93,54	92,44	92,82	1,919	1,892	1,853	1,787
77	96,25	83,3549	97,50	94,79	93,69	94,07	1,919	1,892	1,852	1,786
78	97,50	84,4375	98,75	96,04	94,94	95,32	1,919	1,892	1,852	1,786
79	98,75	85,5200	100,00	97,28	96,19	96,57	1,919	1,892	1,852	1,785
80	100,00	86,6025	101,25	98,53	97,44	97,82	1,918	1,892	1,852	1,785
81	101,25	87,6851	102,50	99,78	98,69	99,07	1,918	1,892	1,851	1,785
82	102,50	88,7676	103,75	101,03	99,94	100,32	1,918	1,891	1,851	1,784
83	103,75	89,8501	105,00	102,28	101,19	101,56	1,918	1,891	1,851	1,784
84	105,00	90,9327	106,25	103,53	102,44	102,81	1,918	1,891	1,851	1,783
85	106,25	92,0152	107,50	104,78	103,69	104,06	1,918	1,891	1,851	1,783
86	107,50	93,0977	108,75	106,03	104,94	105,31	1,918	1,891	1,850	1,783
87	108,75	94,1803	110,00	107,28	106,19	106,56	1,918	1,891	1,850	1,782
88	110,00	95,2628	111,25	108,53	107,44	107,81	1,918	1,891	1,850	1,782
89	111,25	96,3453	112,50	109,78	108,69	109,06	1,918	1,890	1,850	1,782
90	112,50	97,4279	113,75	111,03	109,94	110,31	1,918	1,890	1,849	1,781
91	113,75	98,5104	115,00	112,28	111,18	111,56	1,917	1,890	1,849	1,781
92	115,00	99,5929	116,25	113,53	112,43	112,81	1,917	1,890	1,849	1,780
93	116,25	100,6755	117,50	114,78	113,68	114,06	1,917	1,890	1,849	1,780
94	117,50	101,7580	118,75	116,03	114,93	115,31	1,917	1,890	1,848	1,780
95	118,75	102,8405	120,00	117,28	116,18	116,56	1,917	1,890	1,848	1,779
96	120,00	103,9230	121,25	118,53	117,43	117,81	1,917	1,889	1,848	1,779
97	121,25	105,0056	122,50	119,78	118,68	119,06	1,917	1,889	1,848	1,779
98	122,50	106,0881	123,75	121,03	119,93	120,30	1,917	1,889	1,848	1,778
99	123,75	107,1706	125,00	122,28	121,18	121,55	1,917	1,889	1,847	1,778
100	125,00	108,2532	126,25	123,53	122,43	122,80	1,917	1,889	1,847	1,778

Table 15 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 1,25$, flat or fillet root, $E_{v \min} = 1,963$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	2,12	6,860	6,922	6,879	6,978	6,906	7,058	6,948	7,179	2,378
9	2,12	8,002	8,054	8,018	8,103	8,041	8,174	8,077	8,286	2,203
10	2,12	9,436	9,485	9,451	9,532	9,473	9,601	9,507	9,710	2,147
11	2,12	10,575	10,621	10,589	10,665	10,610	10,731	10,643	10,837	2,064
12	2,12	11,970	12,014	11,984	12,058	12,004	12,124	12,037	12,229	2,039
13	2,24	12,682	12,731	12,698	12,779	12,720	12,850	12,756	12,964	2,178
14	2,24	14,061	14,108	14,077	14,156	14,099	14,225	14,133	14,338	2,137
15	2,24	15,231	15,276	15,246	15,322	15,267	15,390	15,301	15,500	2,081
16	2,24	16,589	16,634	16,604	16,679	16,625	16,746	16,659	16,856	2,057
17	2,24	17,764	17,807	17,779	17,852	17,799	17,918	17,833	18,026	2,019
18	2,24	19,108	19,151	19,123	19,196	19,144	19,262	19,177	19,370	2,003
19	2,24	20,289	20,331	20,303	20,375	20,324	20,440	20,357	20,547	1,976
20	2,24	21,622	21,664	21,637	21,708	21,658	21,773	21,690	21,880	1,965
21	2,24	22,808	22,849	22,822	22,893	22,843	22,958	22,876	23,064	1,944
22	2,24	24,133	24,174	24,148	24,218	24,169	24,283	24,201	24,389	1,936
23	2,24	25,323	25,364	25,338	25,407	25,359	25,472	25,391	25,578	1,919
24	2,24	26,642	26,682	26,656	26,726	26,677	26,790	26,710	26,897	1,913
25	2,24	27,836	27,876	27,851	27,919	27,872	27,984	27,905	28,090	1,900
26	2,24	29,149	29,189	29,164	29,232	29,185	29,297	29,218	29,404	1,895
27	2,24	30,347	30,386	30,362	30,430	30,383	30,494	30,416	30,601	1,884
28	2,24	31,655	31,694	31,670	31,738	31,691	31,802	31,724	31,909	1,880
29	2,24	32,856	32,895	32,871	32,938	32,892	33,003	32,926	33,110	1,871
30	2,24	34,160	34,199	34,175	34,242	34,196	34,307	34,230	34,415	1,868
31	2,24	35,364	35,403	35,379	35,446	35,400	35,511	35,434	35,618	1,860
32	2,24	36,664	36,703	36,680	36,747	36,701	36,812	36,735	36,919	1,857
33	2,24	37,871	37,909	37,886	37,953	37,908	38,018	37,942	38,126	1,850
34	2,24	39,168	39,207	39,184	39,250	39,205	39,316	39,240	39,424	1,848
35	2,24	40,377	40,415	40,393	40,459	40,414	40,524	40,449	40,632	1,842
36	2,24	41,672	41,710	41,687	41,754	41,709	41,819	41,744	41,928	1,840
37	2,24	42,883	42,921	42,898	42,965	42,920	43,030	42,955	43,139	1,835
38	2,24	44,175	44,213	44,191	44,257	44,213	44,323	44,248	44,431	1,833
39	2,24	45,388	45,425	45,403	45,470	45,426	45,535	45,461	45,644	1,829
40	2,24	46,678	46,715	46,694	46,760	46,716	46,826	46,751	46,935	1,827
41	2,24	47,892	47,930	47,908	47,974	47,931	48,040	47,966	48,149	1,823
42	2,24	49,180	49,218	49,196	49,262	49,219	49,328	49,254	49,438	1,822
43	2,24	50,396	50,434	50,412	50,478	50,435	50,544	50,471	50,654	1,818
44	2,24	51,683	51,720	51,699	51,764	51,722	51,831	51,757	51,941	1,817
45	2,24	52,900	52,937	52,916	52,982	52,939	53,048	52,975	53,159	1,814
46	2,24	54,185	54,222	54,201	54,267	54,224	54,333	54,260	54,444	1,813
47	2,24	55,403	55,441	55,420	55,485	55,443	55,552	55,479	55,663	1,810
48	2,24	56,687	56,724	56,703	56,769	56,727	56,836	56,763	56,947	1,809
49	2,24	57,907	57,944	57,923	57,989	57,947	58,056	57,983	58,167	1,806
50	2,24	59,189	59,225	59,205	59,271	59,229	59,338	59,266	59,449	1,805
51	2,24	60,410	60,447	60,426	60,492	60,450	60,559	60,487	60,671	1,803
52	2,24	61,690	61,727	61,707	61,772	61,731	61,840	61,768	61,952	1,802
53	2,24	62,912	62,949	62,929	62,994	62,953	63,062	62,991	63,174	1,800
54	2,24	64,192	64,229	64,209	64,274	64,233	64,342	64,270	64,454	1,799
55	2,24	65,415	65,452	65,432	65,497	65,456	65,565	65,494	65,678	1,797
56	2,24	66,693	66,730	66,711	66,776	66,735	66,844	66,773	66,957	1,796
57	2,24	67,917	67,954	67,935	68,000	67,959	68,068	67,997	68,181	1,794
58	2,24	69,195	69,231	69,212	69,277	69,237	69,345	69,275	69,459	1,794
59	2,24	70,420	70,456	70,437	70,502	70,462	70,570	70,500	70,684	1,792
60	2,24	71,696	71,733	71,714	71,778	71,739	71,847	71,777	71,961	1,791
61	2,24	72,922	72,958	72,940	73,004	72,964	73,073	73,003	73,187	1,789
62	2,24	74,197	74,234	74,215	74,280	74,240	74,349	74,279	74,463	1,789
63	2,24	75,424	75,460	75,442	75,506	75,467	75,575	75,506	75,690	1,787
64	2,24	76,699	76,735	76,717	76,781	76,742	76,850	76,781	76,965	1,787
65	2,24	77,926	77,962	77,944	78,008	77,969	78,078	78,008	78,193	1,785
66	2,24	79,200	79,236	79,218	79,282	79,243	79,352	79,283	79,467	1,785
67	2,24	80,428	80,464	80,446	80,510	80,471	80,580	80,511	80,696	1,784
68	2,24	81,701	81,737	81,719	81,784	81,745	81,853	81,785	81,969	1,783
69	2,24	82,929	82,965	82,948	83,012	82,974	83,082	83,013	83,198	1,782
70	2,24	84,202	84,238	84,220	84,285	84,246	84,355	84,286	84,471	1,782
71	2,24	85,431	85,467	85,450	85,514	85,476	85,584	85,516	85,701	1,780
72	2,24	86,703	86,739	86,722	86,786	86,748	86,856	86,788	86,973	1,780
73	2,24	87,933	87,969	87,951	88,015	87,978	88,086	88,018	88,203	1,779
74	2,36	88,834	88,870	88,853	88,918	88,880	88,989	88,920	89,107	1,794
75	2,36	90,064	90,100	90,083	90,148	90,110	90,219	90,151	90,338	1,793
76	2,36	91,335	91,371	91,354	91,419	91,381	91,490	91,422	91,609	1,792
77	2,36	92,566	92,602	92,585	92,650	92,612	92,721	92,654	92,840	1,791
78	2,36	93,837	93,872	93,856	93,920	93,883	93,992	93,924	94,111	1,791
79	2,36	95,068	95,103	95,087	95,151	95,114	95,223	95,156	95,343	1,789
80	2,36	96,338	96,373	96,357	96,421	96,384	96,493	96,426	96,613	1,789
81	2,36	97,569	97,605	97,589	97,653	97,616	97,725	97,658	97,845	1,788
82	2,36	98,839	98,874	98,858	98,923	98,886	98,995	98,928	99,115	1,787
83	2,36	100,071	100,106	100,091	100,155	100,118	100,227	100,160	100,347	1,786
84	2,36	101,340	101,375	101,359	101,424	101,387	101,496	101,430	101,617	1,786
85	2,36	102,572	102,608	102,592	102,656	102,620	102,729	102,662	102,850	1,785
86	2,36	103,841	103,876	103,861	103,925	103,888	103,998	103,931	104,118	1,784
87	2,36	105,074	105,109	105,094	105,158	105,122	105,231	105,165	105,352	1,783
88	2,36	106,342	106,377	106,362	106,426	106,390	106,499	106,433	106,620	1,783
89	2,36	107,575	107,610	107,595	107,659	107,623	107,732	107,667	107,854	1,782
90	2,36	108,843	108,878	108,863	108,927	108,891	109,000	108,934	109,122	1,782
91	2,36	110,077	110,112	110,097	110,161	110,125	110,234	110,168	110,356	1,781
92	2,36	111,344	111,379	111,364	111,428	111,392	111,501	111,436	111,623	1,781
93	2,36	112,578	112,613	112,598	112,662	112,627	112,735	112,670	112,858	1,780
94	2,36	113,845	113,880	113,865	113,929	113,894	114,002	113,938	114,125	1,779
95	2,36	115,079	115,114	115,099	115,163	115,128	115,237	115,172	115,360	1,779
96	2,36	116,345	116,380	116,366	116,430	116,395	116,504	116,439	116,627	1,778
97	2,36	117,580								

Table 16 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 1,25$, flat or fillet root, $S_{v\max} = 1,963$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions $S_{\min}$ and $S_{\max}$) for tolerance classes								K_e
		4h min.	max. (aux.)	5h min.	max. (aux.)	6h min.	max. (aux.)	7h min.	max. (aux.)	
6	2,80	12,024	12,048	12,001	12,041	11,967	12,031	11,908	12,015	1,235
7	2,80	13,043	13,067	13,020	13,060	12,984	13,050	12,925	13,033	1,235
8	2,65	14,210	14,236	14,184	14,228	14,146	14,217	14,082	14,198	1,327
9	2,65	15,284	15,310	15,258	15,302	15,219	15,290	15,154	15,272	1,330
10	2,65	16,745	16,772	16,718	16,764	16,678	16,752	16,610	16,732	1,372
11	2,50	17,465	17,493	17,437	17,484	17,395	17,472	17,324	17,451	1,413
12	2,50	18,879	18,907	18,850	18,898	18,806	18,885	18,733	18,864	1,444
13	2,50	20,009	20,037	19,979	20,028	19,935	20,015	19,861	19,993	1,448
14	2,50	21,395	21,424	21,365	21,414	21,319	21,401	21,244	21,379	1,472
15	2,50	22,541	22,570	22,511	22,561	22,465	22,547	22,388	22,525	1,476
16	2,50	23,908	23,937	23,876	23,927	23,830	23,913	23,752	23,890	1,495
17	2,50	25,066	25,096	25,035	25,086	24,988	25,072	24,909	25,049	1,498
18	2,50	26,418	26,448	26,386	26,438	26,338	26,423	26,258	26,400	1,514
19	2,50	27,587	27,617	27,554	27,606	27,506	27,591	27,425	27,568	1,517
20	2,50	28,927	28,957	28,894	28,947	28,845	28,931	28,762	28,907	1,530
21	2,50	30,103	30,134	30,070	30,123	30,021	30,108	29,937	30,083	1,533
22	2,50	31,434	31,465	31,401	31,454	31,350	31,438	31,266	31,413	1,544
23	2,50	32,617	32,648	32,583	32,637	32,533	32,621	32,448	32,596	1,547
24	2,36	33,550	33,581	33,515	33,570	33,463	33,553	33,375	33,527	1,586
25	2,36	34,737	34,769	34,702	34,758	34,650	34,741	34,562	34,714	1,587
26	2,36	36,053	36,085	36,018	36,073	35,965	36,056	35,876	36,030	1,595
27	2,36	37,246	37,278	37,210	37,266	37,157	37,249	37,067	37,222	1,597
28	2,36	38,556	38,589	38,520	38,576	38,467	38,559	38,376	38,532	1,603
29	2,36	39,753	39,785	39,717	39,773	39,662	39,755	39,572	39,728	1,605
30	2,36	41,059	41,092	41,023	41,079	40,968	41,061	40,876	41,033	1,611
31	2,36	42,259	42,291	42,222	42,279	42,167	42,261	42,075	42,233	1,612
32	2,36	43,561	43,594	43,525	43,581	43,469	43,563	43,376	43,535	1,617
33	2,36	44,764	44,797	44,727	44,784	44,672	44,766	44,578	44,737	1,619
34	2,36	46,064	46,096	46,026	46,083	45,970	46,065	45,876	46,036	1,623
35	2,36	47,269	47,302	47,232	47,289	47,175	47,270	47,081	47,241	1,624
36	2,36	48,565	48,598	48,528	48,585	48,471	48,566	48,375	48,536	1,629
37	2,36	49,774	49,806	49,736	49,793	49,678	49,774	49,583	49,744	1,630
38	2,36	51,067	51,100	51,029	51,086	50,971	51,067	50,875	51,037	1,634
39	2,36	52,277	52,310	52,239	52,296	52,181	52,277	52,084	52,247	1,635
40	2,36	53,569	53,601	53,530	53,588	53,472	53,568	53,374	53,537	1,638
41	2,36	54,781	54,814	54,742	54,800	54,683	54,780	54,586	54,749	1,639
42	2,36	56,070	56,103	56,031	56,089	55,972	56,069	55,874	56,038	1,642
43	2,36	57,284	57,317	57,245	57,303	57,186	57,283	57,087	57,251	1,643
44	2,36	58,571	58,604	58,532	58,590	58,472	58,570	58,373	58,538	1,646
45	2,36	59,787	59,820	59,747	59,805	59,687	59,785	59,588	59,753	1,647
46	2,36	61,072	61,105	61,032	61,091	60,972	61,070	60,872	61,038	1,649
47	2,36	62,289	62,322	62,249	62,308	62,189	62,287	62,088	62,254	1,650
48	2,36	63,573	63,606	63,533	63,591	63,472	63,571	63,371	63,538	1,652
49	2,36	64,791	64,824	64,751	64,810	64,690	64,789	64,589	64,756	1,653
50	2,36	66,074	66,107	66,033	66,092	65,972	66,071	65,871	66,038	1,655
51	2,36	67,293	67,327	67,253	67,311	67,192	67,290	67,089	67,257	1,656
52	2,36	68,575	68,608	68,534	68,593	68,472	68,571	68,370	68,538	1,658
53	2,36	69,795	69,829	69,754	69,813	69,693	69,792	69,590	69,758	1,659
54	2,36	71,075	71,109	71,034	71,093	70,972	71,071	70,869	71,037	1,661
55	2,36	72,297	72,330	72,256	72,315	72,194	72,293	72,090	72,259	1,661
56	2,36	73,576	73,609	73,534	73,594	73,472	73,571	73,368	73,537	1,663
57	2,36	74,799	74,832	74,757	74,816	74,695	74,794	74,590	74,759	1,664
58	2,36	76,077	76,110	76,035	76,094	75,972	76,072	75,867	76,037	1,665
59	2,36	77,300	77,333	77,258	77,317	77,195	77,295	77,090	77,260	1,666
60	2,36	78,577	78,610	78,535	78,594	78,472	78,572	78,366	78,536	1,668
61	2,36	79,802	79,835	79,759	79,819	79,696	79,796	79,590	79,761	1,668
62	2,36	81,078	81,111	81,035	81,094	80,972	81,072	80,865	81,036	1,670
63	2,36	82,303	82,336	82,260	82,320	82,197	82,297	82,090	82,261	1,670
64	2,36	83,578	83,611	83,535	83,595	83,471	83,572	83,364	83,536	1,671
65	2,36	84,804	84,837	84,761	84,821	84,697	84,797	84,590	84,761	1,672
66	2,36	86,078	86,112	86,035	86,095	85,971	86,071	85,863	86,035	1,673
67	2,36	87,305	87,338	87,262	87,322	87,197	87,298	87,089	87,262	1,674
68	2,36	88,579	88,612	88,536	88,595	88,471	88,571	88,362	88,535	1,675
69	2,36	89,806	89,839	89,763	89,822	89,698	89,799	89,589	89,762	1,675
70	2,36	91,079	91,112	91,036	91,095	90,970	91,071	90,861	91,034	1,676
71	2,36	92,307	92,340	92,264	92,323	92,198	92,299	92,089	92,262	1,677
72	2,36	93,579	93,612	93,536	93,595	93,470	93,571	93,360	93,534	1,678
73	2,36	94,808	94,841	94,764	94,824	94,698	94,800	94,588	94,762	1,678
74	2,36	96,080	96,113	96,036	96,095	95,970	96,071	95,859	96,033	1,679
75	2,36	97,309	97,342	97,265	97,324	97,199	97,300	97,088	97,262	1,680
76	2,36	98,580	98,613	98,536	98,595	98,469	98,571	98,358	98,532	1,681
77	2,36	99,810	99,843	99,765	99,825	99,699	99,800	99,587	99,762	1,681
78	2,36	101,080	101,113	101,036	101,095	100,969	101,070	100,857	101,032	1,682
79	2,36	102,310	102,343	102,266	102,326	102,199	102,300	102,087	102,262	1,682
80	2,36	103,580	103,613	103,536	103,595	103,468	103,570	103,356	103,531	1,683
81	2,36	104,811	104,844	104,766	104,826	104,699	104,801	104,586	104,762	1,683
82	2,36	106,080	106,113	106,035	106,095	105,968	106,070	105,855	106,031	1,684
83	2,36	107,312	107,345	107,267	107,326	107,199	107,301	107,086	107,261	1,685
84	2,36	108,581	108,613	108,535	108,595	108,468	108,570	108,354	108,530	1,685
85	2,36	109,812	109,845	109,767	109,827	109,699	109,801	109,585	109,761	1,686
86	2,36	111,081	111,114	111,035	111,095	110,967	111,069	110,853	111,029	1,687
87	2,36	112,313	112,346	112,267	112,327	112,199	112,301	112,085	112,261	1,687
88	2,36	113,581	113,614	113,535	113,595	113,467	113,569	113,352	113,529	1,688
89	2,36	114,813	114,846	114,768	114,827	114,699	114,801	114,584	114,761	1,688
90	2,36	116,081	116,114	116,035	116,095	115,966	116,069	115,851	116,028	1,689
91	2,36	117,314	117,347	117,268	117,328	117,199	117,301	117,084	117,260	1,689
92	2,36	118,581	118,614	118,535	118,595	118,466	118,568	118,350	118,527	1,689
93	2,36	119,814	119,847	119,768	119,828	119,699	119,801	119,583	119,760	1,690
94	2,36	121,081	121,114	121,035	121,095	120,965	121,068	120,849	121,027	1,690
95	2,36	122,315	122,347	122,268	122,328	122,199	122,301	122,082	122,260	1,691
96	2,36	123,581	123,614	123,535	123,595	123,466	123,568	123,348	123,526	1,691
97	2,36	124,815	124,848	124,769	124,828	124,699	124,801	124,582	124,759	1,691
98	2,36	126,081	126,114	126,035	126,094	125,964	126,067	125,847	126,025	1,692
99	2,36	127,316	127,348	127,269	127,329	127,198	127,301	127,081	127,259	1,692
100	2,36	128,581	128,614	128,534	128,594	128,464	128,567	128,346	128,524	1,693

5.5 30° pressure angle, module 1,5

Table 17 — Geometry internal spline, $\alpha = 30^\circ$, $m = 1,5$, flat and fillet root, $E_{v \min} = 2,356$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{fi \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	9,00	7,7942	11,93	11,48	10,80	8,15	2,389	2,410	2,440	2,490
7	10,50	9,0933	13,44	12,99	12,30	9,54	2,390	2,410	2,441	2,492
8	12,00	10,3923	14,94	14,49	13,80	10,97	2,390	2,411	2,442	2,494
9	13,50	11,6913	16,44	15,99	15,30	12,41	2,391	2,412	2,443	2,496
10	15,00	12,9904	17,94	17,49	16,80	13,86	2,391	2,412	2,444	2,497
11	16,50	14,2894	19,45	19,00	18,30	15,33	2,392	2,413	2,445	2,499
12	18,00	15,5885	20,95	20,50	19,80	16,80	2,392	2,414	2,446	2,500
13	19,50	16,8875	22,45	22,00	21,30	18,27	2,392	2,414	2,447	2,501
14	21,00	18,1865	23,95	23,50	22,80	19,75	2,393	2,415	2,448	2,503
15	22,50	19,4856	25,46	25,01	24,30	21,23	2,393	2,415	2,448	2,504
16	24,00	20,7846	26,96	26,51	25,80	22,72	2,393	2,416	2,449	2,505
17	25,50	22,0836	28,46	28,01	27,30	24,20	2,394	2,416	2,450	2,506
18	27,00	23,3827	29,96	29,51	28,80	25,69	2,394	2,417	2,451	2,507
19	28,50	24,6817	31,46	31,01	30,30	27,18	2,394	2,417	2,451	2,508
20	30,00	25,9808	32,97	32,52	31,80	28,67	2,394	2,417	2,452	2,509
21	31,50	27,2798	34,47	34,02	33,30	30,16	2,395	2,418	2,452	2,510
22	33,00	28,5788	35,97	35,52	34,80	31,66	2,395	2,418	2,453	2,511
23	34,50	29,8779	37,47	37,02	36,30	33,15	2,395	2,418	2,454	2,512
24	36,00	31,1769	38,97	38,52	37,80	34,64	2,395	2,419	2,454	2,513
25	37,50	32,4760	40,47	40,02	39,30	36,14	2,395	2,419	2,455	2,514
26	39,00	33,7750	41,98	41,53	40,80	37,63	2,396	2,420	2,455	2,515
27	40,50	35,0740	43,48	43,03	42,30	39,13	2,396	2,420	2,456	2,516
28	42,00	36,3731	44,98	44,53	43,80	40,62	2,396	2,420	2,456	2,516
29	43,50	37,6721	46,48	46,03	45,30	42,12	2,396	2,420	2,457	2,517
30	45,00	38,9711	47,98	47,53	46,80	43,61	2,397	2,421	2,457	2,518
31	46,50	40,2702	49,48	49,03	48,30	45,11	2,397	2,421	2,458	2,519
32	48,00	41,5692	50,98	50,53	49,80	46,61	2,397	2,421	2,458	2,520
33	49,50	42,8683	52,48	52,03	51,30	48,10	2,397	2,422	2,459	2,520
34	51,00	44,1673	53,99	53,54	52,80	49,60	2,397	2,422	2,459	2,521
35	52,50	45,4663	55,49	55,04	54,30	51,10	2,397	2,422	2,460	2,522
36	54,00	46,7654	56,99	56,54	55,80	52,59	2,398	2,423	2,460	2,522
37	55,50	48,0644	58,49	58,04	57,30	54,09	2,398	2,423	2,460	2,523
38	57,00	49,3634	59,99	59,54	58,80	55,59	2,398	2,423	2,461	2,524
39	58,50	50,6625	61,49	61,04	60,30	57,09	2,398	2,423	2,461	2,524
40	60,00	51,9615	62,99	62,54	61,80	58,58	2,398	2,424	2,462	2,525
41	61,50	53,2606	64,49	64,04	63,30	60,08	2,398	2,424	2,462	2,526
42	63,00	54,5596	66,00	65,55	64,80	61,58	2,399	2,424	2,462	2,526
43	64,50	55,8586	67,50	67,05	66,30	63,08	2,399	2,424	2,463	2,527
44	66,00	57,1577	69,00	68,55	67,80	64,58	2,399	2,425	2,463	2,528
45	67,50	58,4567	70,50	70,05	69,30	66,07	2,399	2,425	2,464	2,528
46	69,00	59,7558	72,00	71,55	70,80	67,57	2,399	2,425	2,464	2,529
47	70,50	61,0548	73,50	73,05	72,30	69,07	2,399	2,425	2,464	2,529
48	72,00	62,3538	75,00	74,55	73,80	70,57	2,399	2,426	2,465	2,530
49	73,50	63,6529	76,50	76,05	75,30	72,07	2,400	2,426	2,465	2,531
50	75,00	64,9519	78,00	77,55	76,80	73,57	2,400	2,426	2,465	2,531
51	76,50	66,2509	79,50	79,05	78,30	75,07	2,400	2,426	2,466	2,532
52	78,00	67,5500	81,01	80,56	79,80	76,56	2,400	2,426	2,466	2,532
53	79,50	68,8490	82,51	82,06	81,30	78,06	2,400	2,427	2,466	2,533
54	81,00	70,1481	84,01	83,56	82,80	79,56	2,400	2,427	2,467	2,533
55	82,50	71,4471	85,51	85,06	84,30	81,06	2,400	2,427	2,467	2,534
56	84,00	72,7461	87,01	86,56	85,80	82,56	2,401	2,427	2,467	2,534
57	85,50	74,0452	88,51	88,06	87,30	84,06	2,401	2,428	2,468	2,535
58	87,00	75,3442	90,01	89,56	88,80	85,56	2,401	2,428	2,468	2,535
59	88,50	76,6432	91,51	91,06	90,30	87,06	2,401	2,428	2,468	2,536
60	90,00	77,9423	93,01	92,56	91,80	88,56	2,401	2,428	2,469	2,536
61	91,50	79,2413	94,51	94,06	93,30	90,05	2,401	2,428	2,469	2,537
62	93,00	80,5404	96,01	95,56	94,80	91,55	2,401	2,429	2,469	2,537
63	94,50	81,8394	97,52	97,07	96,30	93,05	2,401	2,429	2,470	2,538
64	96,00	83,1384	99,02	98,57	97,80	94,55	2,402	2,429	2,470	2,538
65	97,50	84,4375	100,52	100,07	99,30	96,05	2,402	2,429	2,470	2,539
66	99,00	85,7365	102,02	101,57	100,80	97,55	2,402	2,429	2,471	2,539
67	100,50	87,0356	103,52	103,07	102,30	99,05	2,402	2,430	2,471	2,540
68	102,00	88,3346	105,02	104,57	103,80	100,55	2,402	2,430	2,471	2,540
69	103,50	89,6336	106,52	106,07	105,30	102,05	2,402	2,430	2,472	2,541
70	105,00	90,9327	108,02	107,57	106,80	103,55	2,402	2,430	2,472	2,541
71	106,50	92,2317	109,52	109,07	108,30	105,05	2,402	2,430	2,472	2,542
72	108,00	93,5307	111,02	110,57	109,80	106,55	2,403	2,430	2,472	2,542
73	109,50	94,8298	112,52	112,07	111,30	108,05	2,403	2,431	2,473	2,543
74	111,00	96,1288	114,02	113,57	112,80	109,54	2,403	2,431	2,473	2,543
75	112,50	97,4279	115,52	115,07	114,30	111,04	2,403	2,431	2,473	2,544
76	114,00	98,7269	117,03	116,58	115,80	112,54	2,403	2,431	2,474	2,544
77	115,50	100,0259	118,53	118,08	117,30	114,04	2,403	2,431	2,474	2,544
78	117,00	101,3250	120,03	119,58	118,80	115,54	2,403	2,432	2,474	2,545
79	118,50	102,6240	121,53	121,08	120,30	117,04	2,403	2,432	2,474	2,545
80	120,00	103,9230	123,03	122,58	121,80	118,54	2,403	2,432	2,475	2,546
81	121,50	105,2221	124,53	124,08	123,30	120,04	2,404	2,432	2,475	2,546
82	123,00	106,5211	126,03	125,58	124,80	121,54	2,404	2,432	2,475	2,547
83	124,50	107,8202	127,53	127,08	126,30	123,04	2,404	2,432	2,475	2,547
84	126,00	109,1192	129,03	128,58	127,80	124,54	2,404	2,433	2,476	2,547
85	127,50	110,4182	130,53	130,08	129,30	126,04	2,404	2,433	2,476	2,548
86	129,00	111,7173	132,03	131,58	130,80	127,54	2,404	2,433	2,476	2,548
87	130,50	113,0163	133,53	133,08	132,30	129,04	2,404	2,433	2,476	2,549
88	132,00	114,3154	135,03	134,58	133,80	130,54	2,404	2,433	2,477	2,549
89	133,50	115,6144	136,54	136,09	135,30	132,04	2,404	2,433	2,477	2,550
90	135,00	116,9134	138,04	137,59	136,80	133,54	2,404	2,434	2,477	2,550
91	136,50	118,2125	139,54	139,09	138,30	135,04	2,405	2,434	2,477	2,550
92	138,00	119,5115	141,04	140,59	139,80	136,54	2,405	2,434	2,478	2,551
93	139,50	120,8105	142,54	142,09	141,30	138,04	2,405	2,434	2,478	2,551
94	141,00	122,1096	144,04	143,59	142,80	139,53	2,405	2,434	2,478	2,552
95	142,50	123,4086	145,54	145,09	144,30	141,03	2,405	2,434	2,478	2,552
96	144,00	124,7077	147,04	146,59	145,80	142,53	2,405	2,435	2,479	2,552
97	145,50	126,0067	148,54	148,09	147,30	144,03	2,405	2,435	2,479	2,553
98	147,00	127,3057	150,04	149,59	148,80	145,53	2,405	2,435	2,479	2,553
99	148,50	128,6048	151,54	151,09	150,30	147,03	2,405	2,435	2,479	2,553
100	150,00	129,9038	153,04	152,59	151,80	148,53	2,405	2,435	2,480	2,554

Table 18 — Geometry external spline, $\alpha = 30^\circ$, $m = 1,5$, flat and fillet root, $S_{v\text{ ma}} = 2,356$

z	D	D_b	$D_{ee\text{ max}}$	$D_{Fe\text{ max}}$	$D_{ie\text{ min}}$ Fillet root	$D_{ie\text{ min}}$ Flat	S_{min}			
							4h	5h	6h	7h
6	9,00	7,7942	10,50	7,85	6,07	6,52	2,323	2,302	2,272	2,222
7	10,50	9,0933	12,00	9,24	7,56	8,01	2,322	2,302	2,271	2,220
8	12,00	10,3923	13,50	10,67	9,06	9,51	2,322	2,301	2,270	2,218
9	13,50	11,6913	15,00	12,11	10,56	11,01	2,321	2,300	2,269	2,216
10	15,00	12,9904	16,50	13,56	12,06	12,51	2,321	2,300	2,268	2,215
11	16,50	14,2894	18,00	15,03	13,55	14,00	2,320	2,299	2,267	2,213
12	18,00	15,5885	19,50	16,50	15,05	15,50	2,320	2,298	2,266	2,212
13	19,50	16,8875	21,00	17,97	16,55	17,00	2,320	2,298	2,265	2,211
14	21,00	18,1865	22,50	19,45	18,05	18,50	2,319	2,297	2,264	2,209
15	22,50	19,4856	24,00	20,93	19,54	19,99	2,319	2,297	2,264	2,208
16	24,00	20,7846	25,50	22,42	21,04	21,49	2,319	2,296	2,263	2,207
17	25,50	22,0836	27,00	23,90	22,54	22,99	2,318	2,296	2,262	2,206
18	27,00	23,3827	28,50	25,39	24,04	24,49	2,318	2,295	2,261	2,205
19	28,50	24,6817	30,00	26,88	25,54	25,99	2,318	2,295	2,261	2,204
20	30,00	25,9808	31,50	28,37	27,03	27,48	2,318	2,295	2,260	2,203
21	31,50	27,2798	33,00	29,86	28,53	28,98	2,317	2,294	2,260	2,202
22	33,00	28,5788	34,50	31,36	30,03	30,48	2,317	2,294	2,259	2,201
23	34,50	29,8779	36,00	32,85	31,53	31,98	2,317	2,294	2,258	2,200
24	36,00	31,1769	37,50	34,34	33,03	33,48	2,317	2,293	2,258	2,199
25	37,50	32,4760	39,00	35,84	34,53	34,98	2,317	2,293	2,257	2,198
26	39,00	33,7750	40,50	37,33	36,02	36,47	2,316	2,292	2,257	2,197
27	40,50	35,0740	42,00	38,83	37,52	37,97	2,316	2,292	2,256	2,196
28	42,00	36,3731	43,50	40,32	39,02	39,47	2,316	2,292	2,256	2,196
29	43,50	37,6721	45,00	41,82	40,52	40,97	2,316	2,292	2,255	2,195
30	45,00	38,9711	46,50	43,31	42,02	42,47	2,315	2,291	2,255	2,194
31	46,50	40,2702	48,00	44,81	43,52	43,97	2,315	2,291	2,254	2,193
32	48,00	41,5692	49,50	46,31	45,02	45,47	2,315	2,291	2,254	2,192
33	49,50	42,8683	51,00	47,80	46,52	46,97	2,315	2,290	2,253	2,192
34	51,00	44,1673	52,50	49,30	48,01	48,46	2,315	2,290	2,253	2,191
35	52,50	45,4663	54,00	50,80	49,51	49,96	2,315	2,290	2,252	2,190
36	54,00	46,7654	55,50	52,29	51,01	51,46	2,314	2,289	2,252	2,190
37	55,50	48,0644	57,00	53,79	52,51	52,96	2,314	2,289	2,252	2,189
38	57,00	49,3634	58,50	55,29	54,01	54,46	2,314	2,289	2,251	2,188
39	58,50	50,6625	60,00	56,79	55,51	55,96	2,314	2,289	2,251	2,188
40	60,00	51,9615	61,50	58,28	57,01	57,46	2,314	2,288	2,250	2,187
41	61,50	53,2606	63,00	59,78	58,51	58,96	2,314	2,288	2,250	2,186
42	63,00	54,5596	64,50	61,28	60,00	60,45	2,313	2,288	2,250	2,186
43	64,50	55,8586	66,00	62,78	61,50	61,95	2,313	2,288	2,249	2,185
44	66,00	57,1577	67,50	64,28	63,00	63,45	2,313	2,287	2,249	2,184
45	67,50	58,4567	69,00	65,77	64,50	64,95	2,313	2,287	2,248	2,184
46	69,00	59,7558	70,50	67,27	66,00	66,45	2,313	2,287	2,248	2,183
47	70,50	61,0548	72,00	68,77	67,50	67,95	2,313	2,287	2,248	2,183
48	72,00	62,3538	73,50	70,27	69,00	69,45	2,313	2,286	2,247	2,182
49	73,50	63,6529	75,00	71,77	70,50	70,95	2,312	2,286	2,247	2,181
50	75,00	64,9519	76,50	73,27	72,00	72,45	2,312	2,286	2,247	2,181
51	76,50	66,2509	78,00	74,77	73,50	73,95	2,312	2,286	2,246	2,180
52	78,00	67,5500	79,50	76,26	74,99	75,44	2,312	2,286	2,246	2,180
53	79,50	68,8490	81,00	77,76	76,49	76,94	2,312	2,285	2,246	2,179
54	81,00	70,1481	82,50	79,26	77,99	78,44	2,312	2,285	2,245	2,179
55	82,50	71,4471	84,00	80,76	79,49	79,94	2,312	2,285	2,245	2,178
56	84,00	72,7461	85,50	82,26	80,99	81,44	2,311	2,285	2,245	2,178
57	85,50	74,0452	87,00	83,76	82,49	82,94	2,311	2,284	2,244	2,177
58	87,00	75,3442	88,50	85,26	83,99	84,44	2,311	2,284	2,244	2,177
59	88,50	76,6432	90,00	86,76	85,49	85,94	2,311	2,284	2,244	2,176
60	90,00	77,9423	91,50	88,26	86,99	87,44	2,311	2,284	2,243	2,176
61	91,50	79,2413	93,00	89,75	88,49	88,94	2,311	2,284	2,243	2,175
62	93,00	80,5404	94,50	91,25	89,99	90,44	2,311	2,283	2,243	2,175
63	94,50	81,8394	96,00	92,75	91,48	91,93	2,311	2,283	2,242	2,174
64	96,00	83,1384	97,50	94,25	92,98	93,43	2,310	2,283	2,242	2,174
65	97,50	84,4375	99,00	95,75	94,48	94,93	2,310	2,283	2,242	2,173
66	99,00	85,7365	100,50	97,25	95,98	96,43	2,310	2,283	2,241	2,173
67	100,50	87,0356	102,00	98,75	97,48	97,93	2,310	2,282	2,241	2,172
68	102,00	88,3346	103,50	100,25	98,98	99,43	2,310	2,282	2,241	2,172
69	103,50	89,6336	105,00	101,75	100,48	100,93	2,310	2,282	2,240	2,171
70	105,00	90,9327	106,50	103,25	101,98	102,43	2,310	2,282	2,240	2,171
71	106,50	92,2317	108,00	104,75	103,48	103,93	2,310	2,282	2,240	2,170
72	108,00	93,5307	109,50	106,25	104,98	105,43	2,309	2,282	2,240	2,170
73	109,50	94,8298	111,00	107,75	106,48	106,93	2,309	2,281	2,239	2,169
74	111,00	96,1288	112,50	109,24	107,98	108,43	2,309	2,281	2,239	2,169
75	112,50	97,4279	114,00	110,74	109,48	109,93	2,309	2,281	2,239	2,168
76	114,00	98,7269	115,50	112,24	110,97	111,42	2,309	2,281	2,238	2,168
77	115,50	100,0259	117,00	113,74	112,47	112,92	2,309	2,281	2,238	2,168
78	117,00	101,3250	118,50	115,24	113,97	114,42	2,309	2,280	2,238	2,167
79	118,50	102,6240	120,00	116,74	115,47	115,92	2,309	2,280	2,238	2,167
80	120,00	103,9230	121,50	118,24	116,97	117,42	2,309	2,280	2,237	2,166
81	121,50	105,2221	123,00	119,74	118,47	118,92	2,308	2,280	2,237	2,166
82	123,00	106,5211	124,50	121,24	119,97	120,42	2,308	2,280	2,237	2,165
83	124,50	107,8202	126,00	122,74	121,47	121,92	2,308	2,280	2,237	2,165
84	126,00	109,1192	127,50	124,24	122,97	123,42	2,308	2,279	2,236	2,165
85	127,50	110,4182	129,00	125,74	124,47	124,92	2,308	2,279	2,236	2,164
86	129,00	111,7173	130,50	127,24	125,97	126,42	2,308	2,279	2,236	2,164
87	130,50	113,0163	132,00	128,74	127,47	127,92	2,308	2,279	2,236	2,163
88	132,00	114,3154	133,50	130,24	128,97	129,42	2,308	2,279	2,235	2,163
89	133,50	115,6144	135,00	131,74	130,46	130,91	2,308	2,279	2,235	2,162
90	135,00	116,9134	136,50	133,24	131,96	132,41	2,308	2,278	2,235	2,162
91	136,50	118,2125	138,00	134,74	133,46	133,91	2,307	2,278	2,235	2,162
92	138,00	119,5115	139,50	136,24	134,96	135,41	2,307	2,278	2,234	2,161
93	139,50	120,8105	141,00	137,74	136,46	136,91	2,307	2,278	2,234	2,161
94	141,00	122,1096	142,50	139,23	137,96	138,41	2,307	2,278	2,234	2,160
95	142,50	123,4086	144,00	140,73	139,46	139,91	2,307	2,278	2,234	2,160
96	144,00	124,7077	145,50	142,23	140,96	141,41	2,307	2,277	2,233	2,160
97	145,50	126,0067	147,00	143,73	142,46	142,91	2,307	2,277	2,233	2,159
98	147,00	127,3057	148,50	145,23	143,96	144,41	2,307	2,277	2,233	2,159
99	148,50	128,6048	150,00	146,73	145,46	145,91	2,307	2,277	2,233	2,159
100	150,00	129,9038	151,50	148,23	146,96	147,41	2,307	2,277	2,232	2,158

Table 19 — Inspection dimensions internal spine, $\alpha = 30^\circ$, $m = 1,5$, flat or fillet root, $E_{v \min} = 2,356$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	2,50	8,423	8,481	8,441	8,536	8,465	8,613	8,504	8,735	2,279
9	2,50	9,771	9,823	9,787	9,872	9,809	9,944	9,844	10,059	2,135
10	2,65	10,877	10,941	10,896	11,002	10,925	11,089	10,969	11,224	2,466
11	2,65	12,276	12,333	12,294	12,387	12,319	12,467	12,358	12,593	2,299
12	2,65	13,964	14,017	13,981	14,070	14,005	14,146	14,042	14,269	2,228
13	2,65	15,357	15,407	15,373	15,457	15,396	15,531	15,432	15,650	2,144
14	2,65	17,008	17,057	17,024	17,106	17,047	17,179	17,082	17,297	2,109
15	2,65	18,408	18,455	18,423	18,503	18,445	18,574	18,480	18,689	2,057
16	2,65	20,036	20,083	20,052	20,130	20,073	20,201	20,108	20,316	2,036
17	2,65	21,443	21,489	21,459	21,536	21,480	21,605	21,515	21,719	2,001
18	2,65	23,056	23,101	23,071	23,147	23,092	23,217	23,127	23,330	1,987
19	2,65	24,470	24,515	24,486	24,561	24,507	24,630	24,541	24,743	1,961
20	2,65	26,070	26,114	26,085	26,160	26,107	26,229	26,141	26,342	1,951
21	2,65	27,491	27,535	27,507	27,581	27,528	27,649	27,562	27,762	1,932
22	2,65	29,081	29,124	29,096	29,170	29,118	29,239	29,152	29,352	1,925
23	2,65	30,508	30,551	30,524	30,597	30,546	30,665	30,580	30,778	1,909
24	2,65	32,090	32,133	32,106	32,179	32,127	32,247	32,162	32,360	1,904
25	2,65	33,523	33,565	33,538	33,610	33,560	33,679	33,594	33,791	1,891
26	2,65	35,098	35,140	35,113	35,186	35,135	35,254	35,170	35,367	1,887
27	2,65	36,534	36,576	36,550	36,622	36,572	36,690	36,607	36,803	1,876
28	2,65	38,104	38,145	38,120	38,191	38,142	38,260	38,177	38,373	1,873
29	2,65	39,545	39,586	39,560	39,632	39,583	39,700	39,618	39,814	1,864
30	2,65	41,109	41,150	41,125	41,196	41,148	41,265	41,183	41,379	1,861
31	2,65	42,554	42,595	42,570	42,641	42,592	42,709	42,628	42,823	1,854
32	2,65	44,114	44,155	44,130	44,201	44,153	44,270	44,188	44,384	1,851
33	2,65	45,561	45,602	45,578	45,648	45,600	45,717	45,636	45,831	1,845
34	2,80	46,638	46,680	46,655	46,728	46,679	46,798	46,716	46,916	1,886
35	2,80	48,090	48,132	48,107	48,179	48,131	48,250	48,168	48,367	1,879
36	2,80	49,644	49,685	49,661	49,733	49,685	49,804	49,722	49,922	1,876
37	2,80	51,098	51,139	51,115	51,187	51,139	51,258	51,176	51,375	1,869
38	2,80	52,649	52,690	52,666	52,738	52,690	52,809	52,728	52,927	1,866
39	2,80	54,105	54,146	54,123	54,194	54,147	54,265	54,184	54,383	1,860
40	2,80	55,654	55,695	55,671	55,742	55,695	55,814	55,733	55,932	1,858
41	2,80	57,112	57,152	57,129	57,200	57,154	57,272	57,191	57,390	1,853
42	2,80	58,658	58,698	58,675	58,746	58,700	58,818	58,738	58,936	1,851
43	2,80	60,118	60,158	60,135	60,206	60,160	60,278	60,198	60,396	1,846
44	2,80	61,662	61,702	61,679	61,750	61,704	61,822	61,742	61,941	1,844
45	2,80	63,123	63,163	63,141	63,211	63,166	63,283	63,204	63,402	1,840
46	2,80	64,665	64,705	64,683	64,753	64,708	64,825	64,747	64,945	1,838
47	2,80	66,128	66,168	66,146	66,216	66,171	66,288	66,210	66,408	1,835
48	2,80	67,668	67,708	67,686	67,756	67,711	67,829	67,751	67,949	1,833
49	2,80	69,133	69,172	69,151	69,221	69,176	69,293	69,215	69,413	1,830
50	2,80	70,671	70,711	70,689	70,759	70,715	70,832	70,754	70,952	1,828
51	2,80	72,137	72,176	72,155	72,225	72,181	72,298	72,220	72,418	1,825
52	2,80	73,674	73,713	73,692	73,762	73,718	73,835	73,758	73,955	1,824
53	2,80	75,141	75,180	75,159	75,229	75,185	75,302	75,225	75,423	1,821
54	2,80	76,676	76,715	76,695	76,764	76,721	76,837	76,761	76,959	1,820
55	2,80	78,144	78,183	78,163	78,232	78,189	78,306	78,229	78,427	1,817
56	2,80	79,678	79,718	79,697	79,767	79,723	79,840	79,764	79,962	1,816
57	2,80	81,148	81,187	81,166	81,236	81,193	81,309	81,234	81,431	1,814
58	2,80	82,681	82,720	82,700	82,769	82,726	82,842	82,767	82,965	1,813
59	2,80	84,151	84,190	84,170	84,239	84,196	84,313	84,238	84,435	1,811
60	2,80	85,683	85,721	85,702	85,771	85,728	85,845	85,770	85,968	1,810
61	2,80	87,154	87,193	87,173	87,242	87,200	87,316	87,241	87,439	1,808
62	2,80	88,685	88,723	88,704	88,773	88,731	88,847	88,772	88,970	1,807
63	2,80	90,157	90,195	90,176	90,245	90,203	90,319	90,245	90,443	1,805
64	2,80	91,686	91,725	91,706	91,775	91,733	91,849	91,775	91,973	1,804
65	2,80	93,159	93,198	93,179	93,248	93,206	93,322	93,248	93,446	1,802
66	2,80	94,688	94,727	94,708	94,778	94,735	94,851	94,778	94,975	1,802
67	2,80	96,162	96,200	96,181	96,250	96,209	96,325	96,252	96,449	1,800
68	2,80	97,690	97,728	97,710	97,778	97,737	97,853	97,780	97,978	1,799
69	2,80	99,164	99,202	99,184	99,253	99,212	99,328	99,255	99,453	1,798
70	2,80	100,691	100,729	100,711	100,780	100,739	100,855	100,782	100,980	1,797
71	2,80	102,166	102,204	102,186	102,255	102,215	102,330	102,258	102,456	1,795
72	2,80	103,693	103,731	103,713	103,781	103,741	103,857	103,785	103,983	1,795
73	2,80	105,169	105,207	105,189	105,257	105,217	105,333	105,261	105,459	1,793
74	2,80	106,694	106,732	106,715	106,783	106,743	106,859	106,787	106,985	1,793
75	2,80	108,171	108,208	108,191	108,259	108,220	108,335	108,264	108,461	1,792
76	2,80	109,696	109,733	109,716	109,784	109,745	109,860	109,789	109,987	1,791
77	2,80	111,173	111,210	111,193	111,261	111,222	111,337	111,266	111,464	1,790
78	2,80	112,697	112,735	112,718	112,786	112,747	112,862	112,791	112,989	1,789
79	2,80	114,175	114,212	114,195	114,263	114,224	114,340	114,269	114,467	1,788
80	2,80	115,698	115,736	115,719	115,787	115,748	115,864	115,793	115,991	1,788
81	2,80	117,176	117,214	117,197	117,265	117,226	117,342	117,271	117,469	1,787
82	2,80	118,700	118,737	118,720	118,788	118,750	118,865	118,795	118,993	1,786
83	2,80	120,178	120,215	120,199	120,267	120,229	120,344	120,274	120,472	1,785
84	2,80	121,701	121,738	121,722	121,789	121,751	121,867	121,797	121,995	1,785
85	2,80	123,180	123,217	123,201	123,269	123,231	123,346	123,276	123,474	1,784
86	2,80	124,702	124,739	124,723	124,791	124,753	124,868	124,799	124,997	1,783
87	2,80	126,181	126,218	126,203	126,270	126,233	126,348	126,279	126,477	1,782
88	2,80	127,703	127,740	127,724	127,792	127,754	127,870	127,801	127,999	1,782
89	2,80	129,183	129,220	129,204	129,272	129,235	129,350	129,281	129,479	1,781
90	2,80	130,704	130,741	130,726	130,793	130,756	130,871	130,802	131,001	1,781
91	2,80	132,184	132,221	132,206	132,273	132,236	132,351	132,283	132,481	1,780
92	2,80	133,705	133,742	133,727	133,794	133,757	133,872	133,804	134,002	1,780
93	2,80	135,186	135,223	135,208	135,275	135,238	135,353	135,285	135,484	1,779
94	2,80	136,706	136,743	136,728	136,795	136,759	136,874	136,806	137,004	1,778
95	2,80	138,187	138,224	138,209	</					

Table 20 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 1,5$, flat or fillet root, $S_{v \max} = 2,356$

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	3,35	14,410	14,436	14,386	14,429	14,349	14,418	14,287	14,401	1,234
7	3,35	15,633	15,659	15,608	15,651	15,571	15,640	15,508	15,623	1,234
8	3,15	16,982	17,010	16,955	17,002	16,914	16,990	16,846	16,971	1,330
9	3,15	18,271	18,299	18,243	18,291	18,202	18,279	18,132	18,259	1,333
10	3,15	20,023	20,052	19,995	20,044	19,951	20,031	19,879	20,011	1,374
11	3,00	20,964	20,994	20,935	20,985	20,890	20,972	20,815	20,951	1,410
12	3,00	22,661	22,691	22,630	22,682	22,584	22,668	22,506	22,646	1,441
13	3,00	24,017	24,048	23,986	24,038	23,939	24,024	23,860	24,002	1,445
14	3,00	25,680	25,712	25,649	25,702	25,600	25,687	25,520	25,664	1,468
15	3,00	27,056	27,087	27,024	27,077	26,975	27,063	26,894	27,039	1,472
16	3,00	28,696	28,728	28,663	28,717	28,613	28,702	28,530	28,679	1,491
17	3,00	30,087	30,119	30,053	30,108	30,003	30,093	29,919	30,069	1,495
18	3,00	31,709	31,741	31,675	31,730	31,624	31,715	31,538	31,690	1,511
19	3,00	33,111	33,144	33,077	33,132	33,025	33,117	32,939	33,092	1,514
20	3,00	34,719	34,752	34,685	34,741	34,632	34,725	34,545	34,699	1,527
21	3,00	36,131	36,164	36,096	36,153	36,043	36,136	35,955	36,110	1,530
22	3,00	37,728	37,761	37,693	37,750	37,639	37,733	37,550	37,707	1,541
23	3,00	39,148	39,181	39,112	39,169	39,058	39,152	38,968	39,126	1,544
24	3,00	40,736	40,769	40,700	40,757	40,645	40,740	40,554	40,713	1,553
25	3,00	42,162	42,195	42,126	42,183	42,071	42,166	41,979	42,138	1,556
26	3,00	43,743	43,776	43,706	43,764	43,650	43,746	43,557	43,718	1,564
27	3,00	45,174	45,208	45,137	45,195	45,081	45,177	44,988	45,149	1,567
28	3,00	46,748	46,782	46,711	46,770	46,654	46,751	46,560	46,723	1,574
29	3,00	48,185	48,219	48,147	48,206	48,090	48,187	47,995	48,159	1,576
30	3,00	49,754	49,787	49,715	49,774	49,658	49,756	49,562	49,727	1,583
31	3,00	51,194	51,228	51,156	51,215	51,098	51,196	51,001	51,166	1,584
32	3,00	52,758	52,792	52,719	52,779	52,661	52,760	52,564	52,730	1,590
33	2,80	53,635	53,669	53,595	53,655	53,535	53,636	53,436	53,605	1,621
34	2,80	55,193	55,228	55,153	55,214	55,093	55,194	54,993	55,164	1,625
35	2,80	56,640	56,675	56,600	56,661	56,540	56,641	56,439	56,610	1,626
36	2,80	58,195	58,230	58,155	58,216	58,094	58,196	57,993	58,164	1,631
37	2,80	59,645	59,680	59,605	59,666	59,544	59,645	59,442	59,614	1,632
38	2,80	61,197	61,232	61,156	61,218	61,095	61,197	60,992	61,165	1,635
39	2,80	62,650	62,685	62,609	62,670	62,547	62,649	62,444	62,617	1,636
40	2,80	64,199	64,234	64,158	64,219	64,096	64,198	63,992	64,166	1,640
41	2,80	65,654	65,689	65,612	65,674	65,550	65,653	65,446	65,620	1,641
42	2,80	67,200	67,236	67,159	67,220	67,096	67,199	66,991	67,166	1,644
43	2,80	68,657	68,692	68,615	68,677	68,552	68,656	68,447	68,622	1,645
44	2,80	70,202	70,237	70,160	70,222	70,096	70,200	69,991	70,166	1,647
45	2,80	71,660	71,696	71,618	71,680	71,555	71,658	71,448	71,624	1,648
46	2,80	73,203	73,238	73,161	73,223	73,097	73,201	72,990	73,166	1,651
47	2,80	74,663	74,699	74,621	74,683	74,557	74,661	74,450	74,626	1,651
48	2,80	76,204	76,239	76,161	76,223	76,097	76,201	75,989	76,166	1,654
49	2,80	77,666	77,701	77,623	77,685	77,558	77,663	77,450	77,628	1,655
50	2,80	79,205	79,240	79,162	79,224	79,097	79,202	78,988	79,166	1,657
51	2,80	80,669	80,704	80,625	80,688	80,560	80,665	80,451	80,629	1,657
52	2,80	82,206	82,241	82,162	82,225	82,097	82,202	81,987	82,166	1,660
53	2,80	83,671	83,706	83,627	83,690	83,561	83,666	83,452	83,630	1,660
54	2,80	85,207	85,242	85,163	85,225	85,097	85,202	84,987	85,166	1,662
55	2,80	86,673	86,708	86,629	86,691	86,563	86,668	86,452	86,632	1,663
56	2,80	88,207	88,243	88,163	88,226	88,097	88,202	87,986	88,166	1,664
57	2,80	89,675	89,710	89,630	89,693	89,564	89,669	89,452	89,632	1,665
58	2,80	91,208	91,243	91,164	91,226	91,097	91,202	90,985	91,165	1,667
59	2,80	92,677	92,712	92,632	92,695	92,565	92,671	92,452	92,633	1,667
60	2,80	94,209	94,244	94,164	94,227	94,096	94,202	93,984	94,165	1,669
61	2,80	95,678	95,713	95,633	95,696	95,566	95,672	95,452	95,634	1,669
62	2,80	97,209	97,244	97,164	97,227	97,096	97,202	96,983	97,164	1,671
63	2,80	98,680	98,715	98,634	98,697	98,566	98,673	98,452	98,634	1,671
64	2,80	100,210	100,245	100,164	100,227	100,096	100,202	99,982	100,164	1,672
65	2,80	101,681	101,716	101,635	101,698	101,567	101,673	101,452	101,635	1,673
66	2,80	103,210	103,245	103,164	103,227	103,096	103,202	102,981	103,163	1,674
67	2,80	104,682	104,717	104,636	104,699	104,567	104,674	104,452	104,635	1,675
68	2,80	106,211	106,246	106,165	106,228	106,095	106,202	105,980	106,163	1,676
69	2,80	107,684	107,719	107,637	107,700	107,568	107,675	107,452	107,635	1,676
70	2,80	109,211	109,246	109,165	109,228	109,095	109,202	108,979	109,162	1,677
71	2,80	110,685	110,720	110,638	110,701	110,568	110,675	110,452	110,636	1,678
72	2,80	112,211	112,246	112,165	112,228	112,095	112,202	111,978	112,162	1,679
73	2,80	113,686	113,721	113,639	113,702	113,569	113,676	113,451	113,636	1,679
74	2,80	115,212	115,247	115,165	115,228	115,094	115,202	114,977	115,161	1,680
75	2,80	116,687	116,722	116,640	116,703	116,569	116,676	116,451	116,636	1,681
76	2,80	118,212	118,247	118,165	118,228	118,094	118,201	117,975	118,160	1,682
77	2,80	119,688	119,723	119,640	119,704	119,569	119,677	119,451	119,636	1,682
78	2,80	121,212	121,247	121,165	121,228	121,093	121,201	120,974	121,160	1,683
79	2,80	122,689	122,723	122,641	122,704	122,570	122,677	122,450	122,636	1,683
80	2,80	124,212	124,247	124,165	124,228	124,093	124,201	123,973	124,159	1,684
81	2,80	125,689	125,724	125,642	125,705	125,570	125,678	125,450	125,636	1,684
82	2,80	127,213	127,247	127,165	127,228	127,093	127,201	126,972	127,158	1,685
83	2,80	128,690	128,725	128,642	128,705	128,570	128,678	128,449	128,635	1,685
84	2,80	130,213	130,248	130,165	130,228	130,092	130,200	129,971	130,158	1,686
85	2,80	131,691	131,726	131,643	131,706	131,570	131,678	131,449	131,635	1,687
86	2,80	133,213	133,248	133,165	133,228	133,092	133,200	132,970	133,157	1,687
87	2,80	134,692	134,726	134,643	134,706	134,570	134,678	134,448	134,635	1,688
88	2,80	136,213	136,248	136,164	136,228	136,091	136,200	135,969	136,156	1,688
89	2,80	137,692	137,727	137,643	137,707	137,570	137,678	137,448	137,635	1,689
90	2,80	139,213	139,248	139,164	139,228	139,091	139,199	138,968	139,156	1,689
91	2,80	140,693	140,727	140,644	140,707	140,570	140,678	140,447	140,	

5.6 30° pressure angle, module 1,75

Table 21 — Geometry internal spline, $\alpha = 30^\circ$, $m = 1,75$, flat and fillet root, $E_{v \min} = 2,749$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	10,50	9,0933	13,89	13,37	12,60	9,50	2,784	2,805	2,837	2,890
7	12,25	10,6088	15,65	15,12	14,35	11,13	2,785	2,806	2,839	2,892
8	14,00	12,1244	17,40	16,88	16,10	12,79	2,785	2,807	2,840	2,894
9	15,75	13,6399	19,15	18,63	17,85	14,48	2,786	2,808	2,841	2,896
10	17,50	15,1554	20,91	20,38	19,60	16,17	2,786	2,808	2,842	2,898
11	19,25	16,6710	22,66	22,14	21,35	17,88	2,787	2,809	2,843	2,899
12	21,00	18,1865	24,41	23,89	23,10	19,60	2,787	2,810	2,844	2,901
13	22,75	19,7021	26,17	25,64	24,85	21,32	2,787	2,810	2,845	2,902
14	24,50	21,2176	27,92	27,39	26,60	23,04	2,788	2,811	2,846	2,904
15	26,25	22,7332	29,67	29,14	28,35	24,77	2,788	2,811	2,846	2,905
16	28,00	24,2487	31,42	30,90	30,10	26,50	2,788	2,812	2,847	2,906
17	29,75	25,7643	33,17	32,65	31,85	28,24	2,789	2,812	2,848	2,907
18	31,50	27,2798	34,93	34,40	33,60	29,97	2,789	2,813	2,849	2,908
19	33,25	28,7953	36,68	36,15	35,35	31,71	2,789	2,813	2,849	2,910
20	35,00	30,3109	38,43	37,90	37,10	33,45	2,789	2,814	2,850	2,911
21	36,75	31,8264	40,18	39,66	38,85	35,19	2,790	2,814	2,851	2,912
22	38,50	33,3420	41,93	41,41	40,60	36,93	2,790	2,814	2,851	2,913
23	40,25	34,8575	43,69	43,16	42,35	38,67	2,790	2,815	2,852	2,914
24	42,00	36,3731	45,44	44,91	44,10	40,42	2,790	2,815	2,852	2,915
25	43,75	37,8886	47,19	46,66	45,85	42,16	2,791	2,816	2,853	2,915
26	45,50	39,4042	48,94	48,41	47,60	43,90	2,791	2,816	2,854	2,916
27	47,25	40,9197	50,69	50,17	49,35	45,65	2,791	2,816	2,854	2,917
28	49,00	42,4352	52,44	51,92	51,10	47,39	2,791	2,817	2,855	2,918
29	50,75	43,9508	54,19	53,67	52,85	49,14	2,791	2,817	2,855	2,919
30	52,50	45,4663	55,95	55,42	54,60	50,88	2,792	2,817	2,856	2,920
31	54,25	46,9819	57,70	57,17	56,35	52,63	2,792	2,818	2,856	2,921
32	56,00	48,4974	59,45	58,92	58,10	54,37	2,792	2,818	2,857	2,921
33	57,75	50,0130	61,20	60,67	59,85	56,12	2,792	2,818	2,857	2,922
34	59,50	51,5285	62,95	62,43	61,60	57,87	2,792	2,819	2,858	2,923
35	61,25	53,0441	64,70	64,18	63,35	59,61	2,793	2,819	2,858	2,924
36	63,00	54,5596	66,45	65,93	65,10	61,36	2,793	2,819	2,859	2,924
37	64,75	56,0751	68,21	67,68	66,85	63,11	2,793	2,819	2,859	2,925
38	66,50	57,5907	69,96	69,43	68,60	64,85	2,793	2,820	2,860	2,926
39	68,25	59,1062	71,71	71,18	70,35	66,60	2,793	2,820	2,860	2,927
40	70,00	60,6218	73,46	72,93	72,10	68,35	2,794	2,820	2,860	2,927
41	71,75	62,1373	75,21	74,68	73,85	70,09	2,794	2,821	2,861	2,928
42	73,50	63,6529	76,96	76,44	75,60	71,84	2,794	2,821	2,861	2,929
43	75,25	65,1684	78,71	78,19	77,35	73,59	2,794	2,821	2,862	2,929
44	77,00	66,6840	80,46	79,94	79,10	75,34	2,794	2,821	2,862	2,930
45	78,75	68,1995	82,21	81,69	80,85	77,09	2,794	2,822	2,863	2,931
46	80,50	69,7150	83,97	83,44	82,60	78,83	2,795	2,822	2,863	2,931
47	82,25	71,2306	85,72	85,19	84,35	80,58	2,795	2,822	2,863	2,932
48	84,00	72,7461	87,47	86,94	86,10	82,33	2,795	2,822	2,864	2,932
49	85,75	74,2617	89,22	88,69	87,85	84,08	2,795	2,823	2,864	2,933
50	87,50	75,7772	90,97	90,44	89,60	85,83	2,795	2,823	2,864	2,934
51	89,25	77,2928	92,72	92,20	91,35	87,58	2,795	2,823	2,865	2,934
52	91,00	78,8083	94,47	93,95	93,10	89,32	2,795	2,823	2,865	2,935
53	92,75	80,3239	96,22	95,70	94,85	91,07	2,796	2,824	2,866	2,935
54	94,50	81,8394	97,97	97,45	96,60	92,82	2,796	2,824	2,866	2,936
55	96,25	83,3549	99,73	99,20	98,35	94,57	2,796	2,824	2,866	2,937
56	98,00	84,8705	101,48	100,95	100,10	96,32	2,796	2,824	2,867	2,937
57	99,75	86,3860	103,23	102,70	101,85	98,07	2,796	2,825	2,867	2,938
58	101,50	87,9016	104,98	104,45	103,60	99,82	2,796	2,825	2,867	2,938
59	103,25	89,4171	106,73	106,20	105,35	101,57	2,796	2,825	2,868	2,939
60	105,00	90,9327	108,48	107,95	107,10	103,31	2,797	2,825	2,868	2,939
61	106,75	92,4482	110,23	109,71	108,85	105,06	2,797	2,825	2,868	2,940
62	108,50	93,9638	111,98	111,46	110,60	106,81	2,797	2,826	2,869	2,940
63	110,25	95,4793	113,73	113,21	112,35	108,56	2,797	2,826	2,869	2,941
64	112,00	96,9948	115,48	114,96	114,10	110,31	2,797	2,826	2,869	2,942
65	113,75	98,5104	117,23	116,71	115,85	112,06	2,797	2,826	2,870	2,942
66	115,50	100,0259	118,98	118,46	117,60	113,81	2,797	2,826	2,870	2,943
67	117,25	101,5415	120,74	120,21	119,35	115,56	2,798	2,827	2,870	2,943
68	119,00	103,0570	122,49	121,97	121,10	117,31	2,798	2,827	2,871	2,944
69	120,75	104,5726	124,24	123,71	122,85	119,06	2,798	2,827	2,871	2,944
70	122,50	106,0881	125,99	125,46	124,60	120,80	2,798	2,827	2,871	2,945
71	124,25	107,6037	127,74	127,21	126,35	122,55	2,798	2,827	2,872	2,945
72	126,00	109,1192	129,49	128,97	128,10	124,30	2,798	2,828	2,872	2,946
73	127,75	110,6347	131,24	130,72	129,85	126,05	2,798	2,828	2,872	2,946
74	129,50	112,1503	132,99	132,47	131,60	127,80	2,798	2,828	2,872	2,947
75	131,25	113,6658	134,74	134,22	133,35	129,55	2,799	2,828	2,873	2,947
76	133,00	115,1814	136,49	135,97	135,10	131,30	2,799	2,828	2,873	2,948
77	134,75	116,6969	138,24	137,72	136,85	133,05	2,799	2,829	2,873	2,948
78	136,50	118,2125	140,00	139,47	138,60	134,80	2,799	2,829	2,874	2,948
79	138,25	119,7280	141,75	141,22	140,35	136,55	2,799	2,829	2,874	2,949
80	140,00	121,2436	143,50	142,97	142,10	138,30	2,799	2,829	2,874	2,949
81	141,75	122,7591	145,25	144,72	143,85	140,05	2,799	2,829	2,875	2,950
82	143,50	124,2746	147,00	146,47	145,60	141,80	2,799	2,830	2,875	2,950
83	145,25	125,7902	148,75	148,22	147,35	143,55	2,799	2,830	2,875	2,951
84	147,00	127,3057	150,50	149,98	149,10	145,30	2,800	2,830	2,875	2,951
85	148,75	128,8213	152,25	151,73	150,85	147,05	2,800	2,830	2,876	2,952
86	150,50	130,3368	154,00	153,48	152,60	148,79	2,800	2,830	2,876	2,952
87	152,25	131,8524	155,75	155,23	154,35	150,54	2,800	2,830	2,876	2,953
88	154,00	133,3679	157,50	156,98	156,10	152,29	2,800	2,831	2,876	2,953
89	155,75	134,8835	159,25	158,73	157,85	154,04	2,800	2,831	2,877	2,953
90	157,50	136,3990	161,00	160,48	159,60	155,79	2,800	2,831	2,877	2,954
91	159,25	137,9145	162,76	162,23	161,35	157,54	2,800	2,831	2,877	2,954
92	161,00	139,4301	164,51	163,98	163,10	159,29	2,800	2,831	2,878	2,955
93	162,75	140,9456	166,26	165,73	164,85	161,04	2,801	2,831	2,878	2,955
94	164,50	142,4612	168,01	167,48	166,60	162,79	2,801	2,832	2,878	2,956
95	166,25	143,9767	169,76	169,23	168,35	164,54	2,801	2,832	2,878	2,956
96	168,00	145,4923	171,51	170,98	170,10	166,29	2,801	2,832	2,879	2,956
97	169,75	147,0078	173,26	172,73	171,85	168,04	2,801	2,832	2,879	2,957
98	171,50	148,5234	175,01	174,49	173,60	169,79	2,801	2,832	2,879	2,957
99	173,25	150,0389	176,76	176,24	175,35	171,54	2,801	2,832	2,879	2,958
100	175,00	151,5544	178,51	177,99	177,10	173,29	2,801	2,833	2,880	2,958

Table 22 — Geometry external spline, $\alpha = 30^\circ$, $m = 1,75$, flat and fillet root, $S_{v \max} = 2,749$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	10,50	9,0933	12,25	9,15	7,11	7,63	2,714	2,693	2,661	2,608
7	12,25	10,6088	14,00	10,78	8,85	9,38	2,713	2,692	2,659	2,606
8	14,00	12,1244	15,75	12,44	10,60	11,12	2,713	2,691	2,658	2,604
9	15,75	13,6399	17,50	14,13	12,35	12,87	2,712	2,690	2,657	2,602
10	17,50	15,1554	19,25	15,82	14,09	14,62	2,712	2,690	2,656	2,600
11	19,25	16,6710	21,00	17,53	15,84	16,36	2,711	2,689	2,655	2,599
12	21,00	18,1865	22,75	19,25	17,59	18,11	2,711	2,688	2,654	2,597
13	22,75	19,7021	24,50	20,97	19,33	19,86	2,711	2,688	2,653	2,596
14	24,50	21,2176	26,25	22,69	21,08	21,61	2,710	2,687	2,652	2,594
15	26,25	22,7332	28,00	24,42	22,83	23,36	2,710	2,687	2,652	2,593
16	28,00	24,2487	29,75	26,15	24,58	25,10	2,710	2,686	2,651	2,592
17	29,75	25,7643	31,50	27,89	26,33	26,85	2,709	2,686	2,650	2,591
18	31,50	27,2798	33,25	29,62	28,07	28,60	2,709	2,685	2,649	2,590
19	33,25	28,7953	35,00	31,36	29,82	30,35	2,709	2,685	2,649	2,588
20	35,00	30,3109	36,75	33,10	31,57	32,10	2,709	2,684	2,648	2,587
21	36,75	31,8264	38,50	34,84	33,32	33,84	2,708	2,684	2,647	2,586
22	38,50	33,3420	40,25	36,58	35,07	35,59	2,708	2,684	2,647	2,585
23	40,25	34,8575	42,00	38,32	36,81	37,34	2,708	2,683	2,646	2,584
24	42,00	36,3731	43,75	40,07	38,56	39,09	2,708	2,683	2,646	2,583
25	43,75	37,8886	45,50	41,81	40,31	40,84	2,707	2,682	2,645	2,583
26	45,50	39,4042	47,25	43,55	42,06	42,59	2,707	2,682	2,644	2,582
27	47,25	40,9197	49,00	45,30	43,81	44,33	2,707	2,682	2,644	2,581
28	49,00	42,4352	50,75	47,04	45,56	46,08	2,707	2,681	2,643	2,580
29	50,75	43,9508	52,50	48,79	47,31	47,83	2,707	2,681	2,643	2,579
30	52,50	45,4663	54,25	50,53	49,05	49,58	2,706	2,681	2,642	2,578
31	54,25	46,9819	56,00	52,28	50,80	51,33	2,706	2,680	2,642	2,577
32	56,00	48,4974	57,75	54,02	52,55	53,08	2,706	2,680	2,641	2,577
33	57,75	50,0130	59,50	55,77	54,30	54,83	2,706	2,680	2,641	2,576
34	59,50	51,5285	61,25	57,52	56,05	56,57	2,706	2,679	2,640	2,575
35	61,25	53,0441	63,00	59,26	57,80	58,32	2,705	2,679	2,640	2,574
36	63,00	54,5596	64,75	61,01	59,55	60,07	2,705	2,679	2,639	2,574
37	64,75	56,0751	66,50	62,76	61,29	61,82	2,705	2,679	2,639	2,573
38	66,50	57,5907	68,25	64,50	63,04	63,57	2,705	2,678	2,638	2,572
39	68,25	59,1062	70,00	66,25	64,79	65,32	2,705	2,678	2,638	2,571
40	70,00	60,6218	71,75	68,00	66,54	67,07	2,704	2,678	2,638	2,571
41	71,75	62,1373	73,50	69,74	68,29	68,82	2,704	2,677	2,637	2,570
42	73,50	63,6529	75,25	71,49	70,04	70,56	2,704	2,677	2,637	2,569
43	75,25	65,1684	77,00	73,24	71,79	72,31	2,704	2,677	2,636	2,569
44	77,00	66,6840	78,75	74,99	73,54	74,06	2,704	2,677	2,636	2,568
45	78,75	68,1995	80,50	76,74	75,29	75,81	2,704	2,676	2,635	2,567
46	80,50	69,7150	82,25	78,48	77,03	77,56	2,703	2,676	2,635	2,567
47	82,25	71,2306	84,00	80,23	78,78	79,31	2,703	2,676	2,635	2,566
48	84,00	72,7461	85,75	81,98	80,53	81,06	2,703	2,676	2,634	2,566
49	85,75	74,2617	87,50	83,73	82,28	82,81	2,703	2,675	2,634	2,565
50	87,50	75,7772	89,25	85,48	84,03	84,56	2,703	2,675	2,634	2,564
51	89,25	77,2928	91,00	87,23	85,78	86,30	2,703	2,675	2,633	2,564
52	91,00	78,8083	92,75	88,97	87,53	88,05	2,703	2,675	2,633	2,563
53	92,75	80,3239	94,50	90,72	89,28	89,80	2,702	2,674	2,632	2,563
54	94,50	81,8394	96,25	92,47	91,03	91,55	2,702	2,674	2,632	2,562
55	96,25	83,3549	98,00	94,22	92,77	93,30	2,702	2,674	2,632	2,561
56	98,00	84,8705	99,75	95,97	94,52	95,05	2,702	2,674	2,631	2,561
57	99,75	86,3860	101,50	97,72	96,27	96,80	2,702	2,673	2,631	2,560
58	101,50	87,9016	103,25	99,47	98,02	98,55	2,702	2,673	2,631	2,560
59	103,25	89,4171	105,00	101,22	99,77	100,30	2,702	2,673	2,630	2,559
60	105,00	90,9327	106,75	102,96	101,52	102,05	2,701	2,673	2,630	2,559
61	106,75	92,4482	108,50	104,71	103,27	103,79	2,701	2,673	2,630	2,558
62	108,50	93,9638	110,25	106,46	105,02	105,54	2,701	2,672	2,629	2,558
63	110,25	95,4793	112,00	108,21	106,77	107,29	2,701	2,672	2,629	2,557
64	112,00	96,9948	113,75	109,96	108,52	109,04	2,701	2,672	2,629	2,556
65	113,75	98,5104	115,50	111,71	110,27	110,79	2,701	2,672	2,628	2,556
66	115,50	100,0259	117,25	113,46	112,01	112,54	2,701	2,672	2,628	2,555
67	117,25	101,5415	119,00	115,21	113,76	114,29	2,700	2,671	2,628	2,555
68	119,00	103,0570	120,75	116,96	115,51	116,04	2,700	2,671	2,627	2,554
69	120,75	104,5726	122,50	118,71	117,26	117,79	2,700	2,671	2,627	2,554
70	122,50	106,0881	124,25	120,45	119,01	119,54	2,700	2,671	2,627	2,553
71	124,25	107,6037	126,00	122,20	120,76	121,29	2,700	2,671	2,626	2,553
72	126,00	109,1192	127,75	123,95	122,51	123,03	2,700	2,670	2,626	2,552
73	127,75	110,6347	129,50	125,70	124,26	124,78	2,700	2,670	2,626	2,552
74	129,50	112,1503	131,25	127,45	126,01	126,53	2,700	2,670	2,626	2,551
75	131,25	113,6658	133,00	129,20	127,76	128,28	2,699	2,670	2,625	2,551
76	133,00	115,1814	134,75	130,95	129,51	130,03	2,699	2,670	2,625	2,550
77	134,75	116,6969	136,50	132,70	131,26	131,78	2,699	2,669	2,625	2,550
78	136,50	118,2125	138,25	134,45	133,00	133,53	2,699	2,669	2,624	2,550
79	138,25	119,7280	140,00	136,20	134,75	135,28	2,699	2,669	2,624	2,549
80	140,00	121,2436	141,75	137,95	136,50	137,03	2,699	2,669	2,624	2,549
81	141,75	122,7591	143,50	139,70	138,25	138,78	2,699	2,669	2,623	2,548
82	143,50	124,2746	145,25	141,45	140,00	140,53	2,699	2,668	2,623	2,548
83	145,25	125,7902	147,00	143,20	141,75	142,28	2,699	2,668	2,623	2,547
84	147,00	127,3057	148,75	144,95	143,50	144,02	2,698	2,668	2,623	2,547
85	148,75	128,8213	150,50	146,70	145,25	145,77	2,698	2,668	2,622	2,546
86	150,50	130,3368	152,25	148,44	147,00	147,52	2,698	2,668	2,622	2,546
87	152,25	131,8524	154,00	150,19	148,75	149,27	2,698	2,668	2,622	2,545
88	154,00	133,3679	155,75	151,94	150,50	151,02	2,698	2,667	2,622	2,545
89	155,75	134,8835	157,50	153,69	152,25	152,77	2,698	2,667	2,621	2,545
90	157,50	136,3990	159,25	155,44	154,00	154,52	2,698	2,667	2,621	2,544
91	159,25	137,9145	161,00	157,19	155,74	156,27	2,698	2,667	2,621	2,544
92	161,00	139,4301	162,75	158,94	157,49	158,02	2,698	2,667	2,620	2,543
93	162,75	140,9456	164,50	160,69	159,24	159,77	2,697	2,667	2,620	2,543
94	164,50	142,4612	166,25	162,44	160,99	161,52	2,697	2,666	2,620	2,542
95	166,25	143,9767	168,00	164,19	162,74	163,27	2,697	2,666	2,620	2,542
96	168,00	145,4923	169,75	165,94	164,49	165,02	2,697	2,666	2,619	2,542
97	169,75	147,0078	171,50	167,69	166,24	166,77	2,697	2,666	2,619	2,541
98	171,50	148,5234	173,25	169,44	167,99	168,51	2,697	2,666	2,619	2,541
99	173,25	150,0389	175,00	171,19	169,74	170,26	2,697	2,666	2,619	2,540
100	175,00	151,5544	176,75	172,94	171,49	172,01	2,697	2,665	2,618	2,540

Table 23 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 1,75$, flat or fillet root, $E_{v \min} = 2,749$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	3,00	9,426	9,509	9,451	9,583	9,486	9,683	9,539	9,835	2,639
9	3,00	11,057	11,120	11,076	11,180	11,103	11,266	11,145	11,401	2,366
10	3,00	13,075	13,133	13,092	13,188	13,117	13,269	13,156	13,399	2,267
11	3,00	14,677	14,730	14,693	14,783	14,716	14,859	14,753	14,983	2,156
12	3,00	16,633	16,684	16,649	16,735	16,672	16,811	16,708	16,933	2,116
13	3,00	18,245	18,295	18,261	18,344	18,283	18,418	18,318	18,537	2,053
14	3,00	20,166	20,214	20,181	20,264	20,203	20,337	20,239	20,456	2,032
15	3,15	21,262	21,314	21,279	21,367	21,303	21,444	21,341	21,570	2,130
16	3,15	23,165	23,216	23,182	23,268	23,206	23,344	23,243	23,469	2,099
17	3,15	24,811	24,860	24,827	24,911	24,851	24,986	24,888	25,110	2,056
18	3,15	26,694	26,742	26,710	26,793	26,734	26,868	26,770	26,991	2,037
19	3,15	28,347	28,395	28,363	28,445	28,386	28,519	28,423	28,640	2,006
20	3,15	30,215	30,262	30,231	30,312	30,254	30,385	30,291	30,507	1,992
21	3,15	31,875	31,921	31,891	31,971	31,914	32,044	31,951	32,165	1,969
22	3,15	33,730	33,777	33,747	33,826	33,770	33,899	33,807	34,020	1,959
23	3,15	35,397	35,443	35,413	35,492	35,437	35,565	35,473	35,686	1,941
24	3,15	37,243	37,289	37,260	37,338	37,283	37,411	37,320	37,532	1,934
25	3,15	38,915	38,960	38,932	39,009	38,955	39,082	38,992	39,203	1,919
26	3,15	40,754	40,798	40,770	40,847	40,794	40,920	40,831	41,041	1,913
27	3,15	42,431	42,475	42,447	42,524	42,471	42,597	42,508	42,718	1,901
28	3,15	44,262	44,306	44,279	44,355	44,303	44,429	44,340	44,549	1,896
29	3,15	45,944	45,988	45,961	46,037	45,985	46,110	46,022	46,231	1,886
30	3,15	47,770	47,813	47,787	47,862	47,811	47,936	47,848	48,057	1,882
31	3,15	49,455	49,499	49,472	49,548	49,496	49,621	49,534	49,742	1,874
32	3,15	51,276	51,319	51,293	51,369	51,317	51,442	51,355	51,563	1,871
33	3,15	52,965	53,008	52,982	53,058	53,007	53,131	53,045	53,252	1,863
34	3,15	54,782	54,825	54,799	54,874	54,823	54,947	54,862	55,069	1,861
35	3,15	56,474	56,517	56,491	56,566	56,516	56,640	56,554	56,762	1,854
36	3,15	58,287	58,329	58,304	58,379	58,329	58,452	58,367	58,575	1,852
37	3,15	59,982	60,024	59,999	60,074	60,024	60,148	60,063	60,270	1,846
38	3,15	61,791	61,833	61,809	61,883	61,834	61,957	61,873	62,080	1,844
39	3,15	63,489	63,531	63,507	63,581	63,532	63,655	63,571	63,778	1,839
40	3,15	65,295	65,337	65,313	65,387	65,338	65,461	65,378	65,584	1,838
41	3,15	66,995	67,037	67,013	67,087	67,039	67,161	67,078	67,285	1,833
42	3,15	68,799	68,840	68,817	68,890	68,842	68,965	68,882	69,089	1,832
43	3,15	70,501	70,543	70,519	70,593	70,545	70,668	70,585	70,791	1,828
44	3,15	72,302	72,344	72,320	72,394	72,346	72,469	72,386	72,593	1,826
45	3,15	74,006	74,048	74,025	74,098	74,051	74,173	74,091	74,298	1,823
46	3,15	75,805	75,846	75,823	75,897	75,850	75,972	75,890	76,097	1,821
47	3,15	77,511	77,553	77,530	77,603	77,556	77,678	77,597	77,803	1,818
48	3,15	79,308	79,349	79,326	79,399	79,353	79,475	79,394	79,600	1,817
49	3,15	81,016	81,057	81,035	81,107	81,061	81,183	81,102	81,309	1,814
50	3,15	82,810	82,851	82,829	82,902	82,856	82,978	82,897	83,104	1,813
51	3,15	84,520	84,561	84,539	84,612	84,566	84,688	84,607	84,814	1,810
52	3,15	86,313	86,354	86,332	86,404	86,359	86,481	86,401	86,607	1,809
53	3,15	88,024	88,065	88,043	88,115	88,070	88,192	88,112	88,318	1,807
54	3,15	89,815	89,856	89,834	89,907	89,862	89,983	89,904	90,110	1,806
55	3,15	91,527	91,568	91,547	91,619	91,574	91,696	91,617	91,823	1,804
56	3,15	93,317	93,358	93,337	93,409	93,364	93,486	93,407	93,613	1,803
57	3,15	95,031	95,071	95,050	95,123	95,078	95,199	95,121	95,327	1,801
58	3,15	96,819	96,859	96,839	96,911	96,867	96,988	96,910	97,116	1,800
59	3,15	98,534	98,574	98,554	98,626	98,582	98,703	98,625	98,831	1,798
60	3,15	100,321	100,361	100,341	100,413	100,369	100,490	100,412	100,619	1,798
61	3,15	102,037	102,077	102,057	102,129	102,085	102,206	102,129	102,335	1,796
62	3,15	103,823	103,863	103,843	103,915	103,871	103,992	103,915	104,122	1,795
63	3,15	105,540	105,580	105,560	105,632	105,589	105,710	105,633	105,839	1,793
64	3,15	107,324	107,364	107,345	107,416	107,373	107,494	107,418	107,624	1,793
65	3,15	109,042	109,082	109,063	109,134	109,092	109,213	109,136	109,343	1,791
66	3,15	110,826	110,866	110,846	110,918	110,875	110,996	110,920	111,127	1,791
67	3,15	112,545	112,585	112,566	112,637	112,595	112,716	112,640	112,846	1,789
68	3,15	114,327	114,367	114,348	114,420	114,377	114,498	114,423	114,629	1,789
69	3,15	116,047	116,087	116,068	116,139	116,098	116,218	116,143	116,349	1,787
70	3,15	117,829	117,868	117,850	117,921	117,879	118,000	117,925	118,131	1,787
71	3,15	119,550	119,589	119,571	119,642	119,600	119,721	119,646	119,852	1,786
72	3,15	121,330	121,370	121,351	121,423	121,381	121,502	121,427	121,634	1,785
73	3,15	123,052	123,091	123,073	123,144	123,103	123,224	123,149	123,356	1,784
74	3,15	124,832	124,871	124,853	124,924	124,883	125,004	124,929	125,136	1,784
75	3,15	126,554	126,593	126,575	126,646	126,605	126,726	126,652	126,859	1,783
76	3,15	128,333	128,372	128,354	128,425	128,385	128,505	128,431	128,638	1,782
77	3,15	130,056	130,095	130,077	130,148	130,108	130,228	130,155	130,361	1,781
78	3,15	131,834	131,873	131,856	131,927	131,886	132,007	131,933	132,140	1,781
79	3,15	133,558	133,597	133,580	133,650	133,610	133,731	133,657	133,864	1,780
80	3,15	135,335	135,374	135,357	135,428	135,388	135,508	135,435	135,642	1,779
81	3,15	137,059	137,098	137,082	137,152	137,113	137,233	137,160	137,367	1,778
82	3,15	138,836	138,875	138,859	138,929	138,890	139,010	138,937	139,144	1,778
83	3,15	140,561	140,600	140,583	140,654	140,615	140,735	140,663	140,870	1,777
84	3,15	142,338	142,376	142,360	142,430	142,391	142,511	142,439	142,646	1,777
85	3,15	144,063	144,101	144,085	144,156	144,117	144,237	144,165	144,372	1,776
86	3,15	145,839	145,877	145,861	145,931	145,893	146,013	145,941	146,148	1,776
87	3,15	147,565	147,603	147,587	147,657	147,619	147,739	147,668	147,875	1,775
88	3,15	149,340	149,378	149,362	149,433	149,394	149,514	149,443	149,650	1,775
89	3,15	151,066	151,104	151,089	151,159	151,121	151,241	151,170	151,377	1,774
90	3,15	152,841	152,879	152,864	152,934	152,896	153,016	152,945	153,152	1,773
91	3,15	154,568	154,606	154,591	154,661	154,623	154,743	154,672	154,879	1,773
92	3,15	156,342	156,380	156,365	156,435	156,397	156,517	156,447	156,654	1,772
93	3,15	158,069	158,107	158,092	158,162	158,125	158,245	158,174	158,382	1,772
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Table 24 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 1,75$, flat or fillet root, $S_{v\max} = 2,749$

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	4,00	17,037	17,064	17,011	17,056	16,973	17,046	16,909	17,028	1,220
7	3,75	17,860	17,888	17,833	17,880	17,793	17,868	17,726	17,850	1,255
8	3,75	20,006	20,035	19,977	20,026	19,935	20,014	19,863	19,995	1,315
9	3,75	21,510	21,539	21,481	21,530	21,438	21,518	21,365	21,498	1,318
10	3,55	23,044	23,075	23,013	23,066	22,967	23,052	22,889	23,031	1,394
11	3,55	24,594	24,625	24,563	24,616	24,516	24,602	24,437	24,580	1,398
12	3,55	26,575	26,607	26,543	26,597	26,495	26,583	26,414	26,561	1,429
13	3,55	28,158	28,190	28,125	28,180	28,076	28,165	27,994	28,142	1,433
14	3,55	30,100	30,133	30,066	30,122	30,016	30,107	29,932	30,084	1,457
15	3,55	31,705	31,738	31,671	31,728	31,621	31,712	31,535	31,688	1,461
16	3,55	33,620	33,653	33,585	33,642	33,533	33,627	33,446	33,602	1,481
17	3,55	35,242	35,276	35,208	35,265	35,155	35,249	35,067	35,224	1,484
18	3,55	37,136	37,170	37,100	37,158	37,047	37,142	36,958	37,116	1,500
19	3,35	38,225	38,260	38,188	38,248	38,133	38,231	38,041	38,204	1,536
20	3,35	40,099	40,134	40,062	40,122	40,006	40,105	39,913	40,078	1,549
21	3,35	41,746	41,781	41,708	41,769	41,652	41,751	41,558	41,724	1,551
22	3,35	43,607	43,643	43,569	43,630	43,512	43,612	43,417	43,584	1,562
23	3,35	45,263	45,298	45,225	45,286	45,167	45,268	45,071	45,239	1,564
24	3,35	47,114	47,150	47,076	47,137	47,017	47,119	46,920	47,090	1,573
25	3,35	48,778	48,813	48,739	48,800	48,680	48,782	48,582	48,752	1,575
26	3,35	50,620	50,656	50,581	50,643	50,522	50,624	50,423	50,594	1,583
27	3,35	52,290	52,326	52,250	52,312	52,191	52,293	52,091	52,263	1,585
28	3,35	54,125	54,161	54,085	54,148	54,025	54,128	53,924	54,098	1,592
29	3,35	55,801	55,837	55,760	55,823	55,700	55,803	55,598	55,773	1,594
30	3,35	57,630	57,666	57,589	57,652	57,528	57,632	57,426	57,601	1,600
31	3,35	59,310	59,346	59,269	59,332	59,208	59,312	59,105	59,281	1,601
32	3,35	61,134	61,170	61,093	61,156	61,031	61,136	60,927	61,104	1,607
33	3,35	62,818	62,855	62,777	62,840	62,714	62,820	62,610	62,788	1,608
34	3,35	64,637	64,674	64,596	64,659	64,533	64,638	64,428	64,606	1,613
35	3,35	66,326	66,362	66,284	66,347	66,220	66,326	66,115	66,294	1,614
36	3,35	68,141	68,177	68,098	68,162	68,035	68,141	67,928	68,108	1,619
37	3,35	69,832	69,868	69,789	69,853	69,726	69,832	69,619	69,799	1,620
38	3,35	71,643	71,680	71,601	71,665	71,536	71,643	71,429	71,609	1,624
39	3,35	73,338	73,374	73,295	73,359	73,230	73,337	73,122	73,303	1,625
40	3,35	75,146	75,182	75,103	75,167	75,038	75,145	74,929	75,111	1,629
41	3,35	76,843	76,880	76,800	76,864	76,734	76,842	76,625	76,807	1,630
42	3,35	78,648	78,685	78,604	78,669	78,539	78,646	78,429	78,612	1,633
43	3,35	80,348	80,384	80,304	80,368	80,238	80,346	80,128	80,311	1,634
44	3,35	82,150	82,187	82,106	82,171	82,040	82,148	81,929	82,112	1,637
45	3,35	83,852	83,889	83,808	83,872	83,741	83,849	83,630	83,814	1,638
46	3,35	85,652	85,689	85,607	85,672	85,540	85,648	85,428	85,613	1,641
47	3,35	87,356	87,393	87,311	87,376	87,244	87,353	87,131	87,316	1,642
48	3,35	89,154	89,190	89,109	89,174	89,041	89,150	88,928	89,114	1,644
49	3,35	90,859	90,896	90,814	90,879	90,746	90,856	90,633	90,819	1,645
50	3,35	92,655	92,692	92,610	92,675	92,542	92,651	92,428	92,614	1,647
51	3,35	94,363	94,399	94,317	94,382	94,249	94,358	94,134	94,321	1,648
52	3,35	96,157	96,193	96,111	96,176	96,042	96,152	95,927	96,114	1,650
53	3,35	97,866	97,902	97,820	97,885	97,751	97,861	97,635	97,823	1,651
54	3,35	99,658	99,694	99,612	99,677	99,542	99,652	99,427	99,614	1,653
55	3,35	101,368	101,405	101,322	101,387	101,253	101,363	101,136	101,324	1,654
56	3,35	103,159	103,196	103,112	103,178	103,043	103,153	102,926	103,114	1,656
57	3,35	104,871	104,908	104,824	104,890	104,754	104,865	104,637	104,826	1,656
58	3,35	106,660	106,697	106,613	106,679	106,543	106,653	106,425	106,614	1,658
59	3,35	108,373	108,410	108,326	108,392	108,256	108,366	108,138	108,327	1,659
60	3,35	110,161	110,198	110,114	110,179	110,043	110,154	109,925	110,114	1,661
61	3,35	111,875	111,912	111,828	111,894	111,757	111,868	111,638	111,828	1,661
62	3,35	113,662	113,699	113,614	113,680	113,543	113,654	113,424	113,614	1,663
63	3,35	115,378	115,414	115,330	115,396	115,258	115,369	115,139	115,329	1,663
64	3,35	117,163	117,199	117,115	117,181	117,043	117,154	116,923	117,114	1,665
65	3,35	118,879	118,916	118,831	118,897	118,759	118,871	118,639	118,830	1,665
66	3,35	120,664	120,700	120,615	120,681	120,543	120,655	120,422	120,613	1,667
67	3,35	122,381	122,418	122,333	122,399	122,260	122,372	122,139	122,331	1,667
68	3,35	124,164	124,201	124,116	124,182	124,043	124,155	123,921	124,113	1,668
69	3,35	125,883	125,919	125,834	125,900	125,761	125,873	125,639	125,831	1,669
70	3,35	127,665	127,701	127,616	127,682	127,543	127,655	127,421	127,613	1,670
71	3,35	129,384	129,421	129,335	129,401	129,262	129,374	129,139	129,332	1,671
72	3,35	131,166	131,202	131,116	131,182	131,043	131,155	130,920	131,112	1,672
73	3,35	132,886	132,922	132,837	132,902	132,763	132,875	132,639	132,832	1,672
74	3,35	134,666	134,702	134,617	134,683	134,543	134,655	134,419	134,612	1,673
75	3,35	136,387	136,423	136,338	136,404	136,263	136,376	136,139	136,332	1,674
76	3,35	138,167	138,203	138,117	138,183	138,042	138,155	137,918	138,111	1,675
77	3,35	139,888	139,925	139,839	139,905	139,764	139,876	139,639	139,833	1,675
78	3,35	141,667	141,703	141,617	141,683	141,542	141,655	141,417	141,611	1,676
79	3,35	143,390	143,426	143,340	143,405	143,264	143,377	143,139	143,333	1,677
80	3,35	145,168	145,204	145,117	145,183	145,042	145,154	144,916	145,110	1,678
81	3,35	146,891	146,927	146,840	146,906	146,765	146,877	146,639	146,833	1,678
82	3,35	148,668	148,704	148,617	148,683	148,542	148,654	148,415	148,610	1,679
83	3,35	150,392	150,428	150,341	150,407	150,265	150,378	150,138	150,333	1,679
84	3,35	152,168	152,204	152,118	152,184	152,041	152,154	151,914	152,109	1,680
85	3,35	153,893	153,929	153,842	153,908	153,766	153,878	153,638	153,833	1,680
86	3,35	155,669	155,705	155,618	155,684	155,541	155,654	155,413	155,609	1,681
87	3,35	157,394	157,430	157,343	157,409	157,266	157,379	157,138	157,333	1,682
88	3,35	159,169	159,205	159,118	159,184	159,041	159,154	158,912	159,108	1,682
89	3,35	160,895	160,931	160,843	160,909	160,766	160,879	160,637	160,833	1,683
90	3,35	162,669	162,705	162,618	162,684	162,540	162,654</			

5.7 30° pressure angle, module 2

Table 25 — Geometry internal spline, $\alpha = 30^\circ$, $m = 2$, flat and fillet root, $E_{v \min} = 3,142$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{ii \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	12,00	10,3923	15,86	15,26	14,40	10,86	3,179	3,201	3,234	3,290
7	14,00	12,1244	17,86	17,26	16,40	12,72	3,179	3,202	3,236	3,292
8	16,00	13,8564	19,86	19,26	18,40	14,62	3,180	3,203	3,237	3,294
9	18,00	15,5885	21,87	21,27	20,40	16,54	3,180	3,204	3,238	3,296
10	20,00	17,3205	23,87	23,27	22,40	18,48	3,181	3,204	3,239	3,298
11	22,00	19,0526	25,87	25,27	24,40	20,44	3,181	3,205	3,240	3,299
12	24,00	20,7846	27,88	27,28	26,40	22,40	3,182	3,206	3,241	3,301
13	26,00	22,5167	29,88	29,28	28,40	24,36	3,182	3,206	3,242	3,302
14	28,00	24,2487	31,88	31,28	30,40	26,34	3,182	3,207	3,243	3,304
15	30,00	25,9808	33,88	33,28	32,40	28,31	3,183	3,207	3,244	3,305
16	32,00	27,7128	35,88	35,28	34,40	30,29	3,183	3,208	3,245	3,306
17	34,00	29,4449	37,89	37,29	36,40	32,27	3,183	3,208	3,246	3,308
18	36,00	31,1769	39,89	39,29	38,40	34,26	3,184	3,209	3,246	3,309
19	38,00	32,9090	41,89	41,29	40,40	36,24	3,184	3,209	3,247	3,310
20	40,00	34,6410	43,89	43,29	42,40	38,23	3,184	3,210	3,248	3,311
21	42,00	36,3731	45,89	45,29	44,40	40,22	3,185	3,210	3,248	3,312
22	44,00	38,1051	47,90	47,30	46,40	42,21	3,185	3,211	3,249	3,313
23	46,00	39,8372	49,90	49,30	48,40	44,20	3,185	3,211	3,250	3,314
24	48,00	41,5692	51,90	51,30	50,40	46,19	3,185	3,211	3,250	3,315
25	50,00	43,3013	53,90	53,30	52,40	48,18	3,186	3,212	3,251	3,316
26	52,00	45,0333	55,90	55,30	54,40	50,17	3,186	3,212	3,252	3,317
27	54,00	46,7654	57,91	57,31	56,40	52,17	3,186	3,212	3,252	3,318
28	56,00	48,4974	59,91	59,31	58,40	54,16	3,186	3,213	3,253	3,319
29	58,00	50,2295	61,91	61,31	60,40	56,16	3,186	3,213	3,253	3,320
30	60,00	51,9615	63,91	63,31	62,40	58,15	3,187	3,214	3,254	3,321
31	62,00	53,6936	65,91	65,31	64,40	60,14	3,187	3,214	3,254	3,322
32	64,00	55,4256	67,91	67,31	66,40	62,14	3,187	3,214	3,255	3,323
33	66,00	57,1577	69,91	69,31	68,40	64,14	3,187	3,215	3,255	3,323
34	68,00	58,8897	71,92	71,32	70,40	66,13	3,188	3,215	3,256	3,324
35	70,00	60,6218	73,92	73,32	72,40	68,13	3,188	3,215	3,256	3,325
36	72,00	62,3538	75,92	75,32	74,40	70,12	3,188	3,215	3,257	3,326
37	74,00	64,0859	77,92	77,32	76,40	72,12	3,188	3,216	3,257	3,326
38	76,00	65,8179	79,92	79,32	78,40	74,12	3,188	3,216	3,258	3,327
39	78,00	67,5500	81,92	81,32	80,40	76,11	3,188	3,216	3,258	3,328
40	80,00	69,2820	83,92	83,32	82,40	78,11	3,189	3,217	3,259	3,329
41	82,00	71,0141	85,92	85,32	84,40	80,11	3,189	3,217	3,259	3,329
42	84,00	72,7461	87,93	87,33	86,40	82,11	3,189	3,217	3,260	3,330
43	86,00	74,4782	89,93	89,33	88,40	84,10	3,189	3,218	3,260	3,331
44	88,00	76,2102	91,93	91,33	90,40	86,10	3,189	3,218	3,260	3,332
45	90,00	77,9423	93,93	93,33	92,40	88,10	3,190	3,218	3,261	3,332
46	92,00	79,6743	95,93	95,33	94,40	90,10	3,190	3,218	3,261	3,333
47	94,00	81,4064	97,93	97,33	96,40	92,09	3,190	3,219	3,262	3,334
48	96,00	83,1384	99,93	99,33	98,40	94,09	3,190	3,219	3,262	3,334
49	98,00	84,8705	101,93	101,33	100,40	96,09	3,190	3,219	3,263	3,335
50	100,00	86,6025	103,94	103,34	102,40	98,09	3,190	3,219	3,263	3,336
51	102,00	88,3346	105,94	105,34	104,40	100,09	3,191	3,220	3,263	3,336
52	104,00	90,0666	107,94	107,34	106,40	102,09	3,191	3,220	3,264	3,337
53	106,00	91,7987	109,94	109,34	108,40	104,08	3,191	3,220	3,264	3,337
54	108,00	93,5307	111,94	111,34	110,40	106,08	3,191	3,220	3,264	3,338
55	110,00	95,2628	113,94	113,34	112,40	108,08	3,191	3,221	3,265	3,339
56	112,00	96,9948	115,94	115,34	114,40	110,08	3,191	3,221	3,265	3,339
57	114,00	98,7269	117,94	117,34	116,40	112,08	3,191	3,221	3,266	3,340
58	116,00	100,4589	119,94	119,34	118,40	114,08	3,192	3,221	3,266	3,340
59	118,00	102,1910	121,94	121,34	120,40	116,07	3,192	3,222	3,266	3,341
60	120,00	103,9230	123,95	123,35	122,40	118,07	3,192	3,222	3,267	3,342
61	122,00	105,6551	125,95	125,35	124,40	120,07	3,192	3,222	3,267	3,342
62	124,00	107,3872	127,95	127,35	126,40	122,07	3,192	3,222	3,267	3,343
63	126,00	109,1192	129,95	129,35	128,40	124,07	3,192	3,222	3,268	3,343
64	128,00	110,8513	131,95	131,35	130,40	126,07	3,192	3,223	3,268	3,344
65	130,00	112,5833	133,95	133,35	132,40	128,07	3,193	3,223	3,268	3,344
66	132,00	114,3154	135,95	135,35	134,40	130,07	3,193	3,223	3,269	3,345
67	134,00	116,0474	137,95	137,35	136,40	132,07	3,193	3,223	3,269	3,345
68	136,00	117,7795	139,95	139,35	138,40	134,06	3,193	3,224	3,269	3,346
69	138,00	119,5115	141,95	141,35	140,40	136,06	3,193	3,224	3,270	3,346
70	140,00	121,2436	143,96	143,36	142,40	138,06	3,193	3,224	3,270	3,347
71	142,00	122,9756	145,96	145,36	144,40	140,06	3,193	3,224	3,270	3,348
72	144,00	124,7077	147,96	147,36	146,40	142,06	3,194	3,224	3,271	3,348
73	146,00	126,4397	149,96	149,36	148,40	144,06	3,194	3,225	3,271	3,349
74	148,00	128,1718	151,96	151,36	150,40	146,06	3,194	3,225	3,271	3,349
75	150,00	129,9038	153,96	153,36	152,40	148,06	3,194	3,225	3,272	3,350
76	152,00	131,6359	155,96	155,36	154,40	150,06	3,194	3,225	3,272	3,350
77	154,00	133,3679	157,96	157,36	156,40	152,06	3,194	3,225	3,272	3,351
78	156,00	135,1000	159,96	159,36	158,40	154,06	3,194	3,226	3,273	3,351
79	158,00	136,8320	161,96	161,36	160,40	156,06	3,194	3,226	3,273	3,352
80	160,00	138,5641	163,96	163,36	162,40	158,05	3,195	3,226	3,273	3,352
81	162,00	140,2961	165,96	165,36	164,40	160,05	3,195	3,226	3,274	3,353
82	164,00	142,0282	167,97	167,37	166,40	162,05	3,195	3,226	3,274	3,353
83	166,00	143,7602	169,97	169,37	168,40	164,05	3,195	3,227	3,274	3,354
84	168,00	145,4923	171,97	171,37	170,40	166,05	3,195	3,227	3,274	3,354
85	170,00	147,2243	173,97	173,37	172,40	168,05	3,195	3,227	3,275	3,354
86	172,00	148,9564	175,97	175,37	174,40	170,05	3,195	3,227	3,275	3,355
87	174,00	150,6884	177,97	177,37	176,40	172,05	3,195	3,227	3,275	3,355
88	176,00	152,4205	179,97	179,37	178,40	174,05	3,195	3,228	3,276	3,356
89	178,00	154,1525	181,97	181,37	180,40	176,05	3,196	3,228	3,276	3,356
90	180,00	155,8846	183,97	183,37	182,40	178,05	3,196	3,228	3,276	3,357
91	182,00	157,6166	185,97	185,37	184,40	180,05	3,196	3,228	3,277	3,357
92	184,00	159,3487	187,97	187,37	186,40	182,05	3,196	3,228	3,277	3,358
93	186,00	161,0807	189,97	189,37	188,40	184,05	3,196	3,228	3,277	3,358
94	188,00	162,8128	191,98	191,38	190,40	186,05	3,196	3,229	3,277	3,359
95	190,00	164,5448	193,98	193,38	192,40	188,05	3,196	3,229	3,278	3,359
96	192,00	166,2769	195,98	195,38	194,40	190,05	3,196	3,229	3,278	3,359
97	194,00	168,0089	197,98	197,38	196,40	192,05	3,196	3,229	3,278	3,360
98	196,00	169,7410	199,98	199,38	198,40	194,04	3,197	3,229	3,278	3,360
99	198,00	171,4730	201,98	201,38	200,40	196,04	3,197	3,230	3,279	3,361
100	200,00	173,2051	203,98	203,38	202,40	198,04	3,197	3,230	3,279	3,361

Table 26 — Geometry external spline, $\alpha = 30^\circ$, $m = 2$, flat and fillet root, $S_{v \max} = 3,142$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	12,00	10,3923	14,00	10,46	8,14	8,74	3,105	3,083	3,050	2,994
7	14,00	12,1244	16,00	12,32	10,14	10,74	3,105	3,082	3,048	2,992
8	16,00	13,8564	18,00	14,22	12,14	12,74	3,104	3,081	3,047	2,990
9	18,00	15,5885	20,00	16,14	14,13	14,73	3,104	3,080	3,046	2,988
10	20,00	17,3205	22,00	18,08	16,13	16,73	3,103	3,080	3,045	2,986
11	22,00	19,0526	24,00	20,04	18,13	18,73	3,103	3,079	3,044	2,985
12	24,00	20,7846	26,00	22,00	20,12	20,72	3,102	3,078	3,043	2,983
13	26,00	22,5167	28,00	23,96	22,12	22,72	3,102	3,078	3,042	2,982
14	28,00	24,2487	30,00	25,94	24,12	24,72	3,102	3,077	3,041	2,980
15	30,00	25,9808	32,00	27,91	26,12	26,72	3,101	3,077	3,040	2,979
16	32,00	27,7128	34,00	29,89	28,12	28,72	3,101	3,076	3,039	2,978
17	34,00	29,4449	36,00	31,87	30,11	30,71	3,101	3,076	3,038	2,976
18	36,00	31,1769	38,00	33,86	32,11	32,71	3,100	3,075	3,038	2,975
19	38,00	32,9090	40,00	35,84	34,11	34,71	3,100	3,075	3,037	2,974
20	40,00	34,6410	42,00	37,83	36,11	36,71	3,100	3,074	3,036	2,973
21	42,00	36,3731	44,00	39,82	38,11	38,71	3,099	3,074	3,036	2,972
22	44,00	38,1051	46,00	41,81	40,10	40,70	3,099	3,073	3,035	2,971
23	46,00	39,8372	48,00	43,80	42,10	42,70	3,099	3,073	3,034	2,970
24	48,00	41,5692	50,00	45,79	44,10	44,70	3,099	3,073	3,034	2,969
25	50,00	43,3013	52,00	47,78	46,10	46,70	3,098	3,072	3,033	2,968
26	52,00	45,0333	54,00	49,77	48,10	48,70	3,098	3,072	3,032	2,967
27	54,00	46,7654	56,00	51,77	50,09	50,69	3,098	3,072	3,032	2,966
28	56,00	48,4974	58,00	53,76	52,09	52,69	3,098	3,071	3,031	2,965
29	58,00	50,2295	60,00	55,76	54,09	54,69	3,098	3,071	3,031	2,964
30	60,00	51,9615	62,00	57,75	56,09	56,69	3,097	3,070	3,030	2,963
31	62,00	53,6936	64,00	59,74	58,09	58,69	3,097	3,070	3,030	2,962
32	64,00	55,4256	66,00	61,74	60,09	60,69	3,097	3,070	3,029	2,961
33	66,00	57,1577	68,00	63,74	62,09	62,69	3,097	3,069	3,029	2,961
34	68,00	58,8897	70,00	65,73	64,08	64,68	3,096	3,069	3,028	2,960
35	70,00	60,6218	72,00	67,73	66,08	66,68	3,096	3,069	3,028	2,959
36	72,00	62,3538	74,00	69,72	68,08	68,68	3,096	3,069	3,027	2,958
37	74,00	64,0859	76,00	71,72	70,08	70,68	3,096	3,068	3,027	2,958
38	76,00	65,8179	78,00	73,72	72,08	72,68	3,096	3,068	3,026	2,957
39	78,00	67,5500	80,00	75,71	74,08	74,68	3,096	3,068	3,026	2,956
40	80,00	69,2820	82,00	77,71	76,08	76,68	3,095	3,067	3,025	2,955
41	82,00	71,0141	84,00	79,71	78,08	78,68	3,095	3,067	3,025	2,955
42	84,00	72,7461	86,00	81,71	80,07	80,67	3,095	3,067	3,024	2,954
43	86,00	74,4782	88,00	83,70	82,07	82,67	3,095	3,066	3,024	2,953
44	88,00	76,2102	90,00	85,70	84,07	84,67	3,095	3,066	3,024	2,952
45	90,00	77,9423	92,00	87,70	86,07	86,67	3,094	3,066	3,023	2,952
46	92,00	79,6743	94,00	89,70	88,07	88,67	3,094	3,066	3,023	2,951
47	94,00	81,4064	96,00	91,69	90,07	90,67	3,094	3,065	3,022	2,950
48	96,00	83,1384	98,00	93,69	92,07	92,67	3,094	3,065	3,022	2,950
49	98,00	84,8705	100,00	95,69	94,07	94,67	3,094	3,065	3,021	2,949
50	100,00	86,6025	102,00	97,69	96,06	96,66	3,094	3,065	3,021	2,948
51	102,00	88,3346	104,00	99,69	98,06	98,66	3,093	3,064	3,021	2,948
52	104,00	90,0666	106,00	101,69	100,06	100,66	3,093	3,064	3,020	2,947
53	106,00	91,7987	108,00	103,68	102,06	102,66	3,093	3,064	3,020	2,947
54	108,00	93,5307	110,00	105,68	104,06	104,66	3,093	3,064	3,020	2,946
55	110,00	95,2628	112,00	107,68	106,06	106,66	3,093	3,063	3,019	2,945
56	112,00	96,9948	114,00	109,68	108,06	108,66	3,093	3,063	3,019	2,945
57	114,00	98,7269	116,00	111,68	110,06	110,66	3,093	3,063	3,018	2,944
58	116,00	100,4589	118,00	113,68	112,06	112,66	3,092	3,063	3,018	2,944
59	118,00	102,1910	120,00	115,67	114,06	114,66	3,092	3,062	3,018	2,943
60	120,00	103,9230	122,00	117,67	116,05	116,65	3,092	3,062	3,017	2,942
61	122,00	105,6551	124,00	119,67	118,05	118,65	3,092	3,062	3,017	2,942
62	124,00	107,3872	126,00	121,67	120,05	120,65	3,092	3,062	3,017	2,941
63	126,00	109,1192	128,00	123,67	122,05	122,65	3,092	3,062	3,016	2,941
64	128,00	110,8513	130,00	125,67	124,05	124,65	3,092	3,061	3,016	2,940
65	130,00	112,5833	132,00	127,67	126,05	126,65	3,091	3,061	3,016	2,940
66	132,00	114,3154	134,00	129,67	128,05	128,65	3,091	3,061	3,015	2,939
67	134,00	116,0474	136,00	131,67	130,05	130,65	3,091	3,061	3,015	2,939
68	136,00	117,7795	138,00	133,66	132,05	132,65	3,091	3,060	3,015	2,938
69	138,00	119,5115	140,00	135,66	134,05	134,65	3,091	3,060	3,014	2,938
70	140,00	121,2436	142,00	137,66	136,04	136,64	3,091	3,060	3,014	2,937
71	142,00	122,9756	144,00	139,66	138,04	138,64	3,091	3,060	3,014	2,936
72	144,00	124,7077	146,00	141,66	140,04	140,64	3,090	3,060	3,013	2,936
73	146,00	126,4397	148,00	143,66	142,04	142,64	3,090	3,059	3,013	2,935
74	148,00	128,1718	150,00	145,66	144,04	144,64	3,090	3,059	3,013	2,935
75	150,00	129,9038	152,00	147,66	146,04	146,64	3,090	3,059	3,012	2,934
76	152,00	131,6359	154,00	149,66	148,04	148,64	3,090	3,059	3,012	2,934
77	154,00	133,3679	156,00	151,66	150,04	150,64	3,090	3,059	3,012	2,933
78	156,00	135,1000	158,00	153,66	152,04	152,64	3,090	3,058	3,011	2,933
79	158,00	136,8320	160,00	155,66	154,04	154,64	3,090	3,058	3,011	2,932
80	160,00	138,5641	162,00	157,65	156,04	156,64	3,089	3,058	3,011	2,932
81	162,00	140,2961	164,00	159,65	158,04	158,64	3,089	3,058	3,010	2,931
82	164,00	142,0282	166,00	161,65	160,03	160,63	3,089	3,058	3,010	2,931
83	166,00	143,7602	168,00	163,65	162,03	162,63	3,089	3,057	3,010	2,930
84	168,00	145,4923	170,00	165,65	164,03	164,63	3,089	3,057	3,010	2,930
85	170,00	147,2243	172,00	167,65	166,03	166,63	3,089	3,057	3,009	2,930
86	172,00	148,9564	174,00	169,65	168,03	168,63	3,089	3,057	3,009	2,929
87	174,00	150,6884	176,00	171,65	170,03	170,63	3,089	3,057	3,009	2,929
88	176,00	152,4205	178,00	173,65	172,03	172,63	3,089	3,056	3,008	2,928
89	178,00	154,1525	180,00	175,65	174,03	174,63	3,088	3,056	3,008	2,928
90	180,00	155,8846	182,00	177,65	176,03	176,63	3,088	3,056	3,008	2,927
91	182,00	157,6166	184,00	179,65	178,03	178,63	3,088	3,056	3,007	2,927
92	184,00	159,3487	186,00	181,65	180,03	180,63	3,088	3,056	3,007	2,926
93	186,00	161,0807	188,00	183,65	182,03	182,63	3,088	3,056	3,007	2,926
94	188,00	162,8128	190,00	185,65	184,02	184,62	3,088	3,055	3,007	2,925
95	190,00	164,5448	192,00	187,65	186,02	186,62	3,088	3,055	3,006	2,925
96	192,00	166,2769	194,00	189,65	188,02	188,62	3,088	3,055	3,006	2,925
97	194,00	168,0089	196,00	191,65	190,02	190,62	3,088	3,055	3,006	2,924
98	196,00	169,7410	198,00	193,64	192,02	192,62	3,087	3,055	3,006	2,924
99	198,00	171,4730	200,00	195,64	194,02	194,62	3,087	3,054	3,005	2,923
100	200,00	173,2051	202,00	197,64	196,02	196,62	3,087	3,054	3,005	2,923

Table 27 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 2$, flat or fillet root, $E_{v \min} = 3,142$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	3,35	11,150	11,217	11,169	11,280	11,197	11,370	11,241	11,511	2,396
9	3,35	12,955	13,014	12,973	13,070	12,997	13,152	13,037	13,283	2,216
10	3,55	14,413	14,489	14,436	14,560	14,468	14,660	14,518	14,818	2,602
11	3,55	16,290	16,354	16,309	16,417	16,337	16,507	16,381	16,652	2,391
12	3,55	18,545	18,605	18,563	18,664	18,590	18,750	18,631	18,890	2,297
13	3,55	20,405	20,462	20,423	20,518	20,448	20,601	20,488	20,735	2,199
14	3,55	22,609	22,664	22,626	22,719	22,651	22,800	22,690	22,932	2,155
15	3,55	24,476	24,529	24,493	24,583	24,518	24,662	24,556	24,792	2,096
16	3,55	26,649	26,700	26,666	26,753	26,690	26,832	26,728	26,961	2,070
17	3,55	28,526	28,577	28,543	28,629	28,567	28,706	28,604	28,834	2,031
18	3,55	30,676	30,726	30,693	30,778	30,717	30,855	30,754	30,982	2,014
19	3,55	32,563	32,612	32,580	32,664	32,604	32,740	32,641	32,866	1,986
20	3,55	34,696	34,745	34,713	34,796	34,737	34,873	34,775	34,999	1,974
21	3,55	36,592	36,640	36,609	36,691	36,633	36,767	36,670	36,893	1,952
22	3,55	38,712	38,760	38,729	38,811	38,753	38,887	38,791	39,013	1,944
23	3,55	40,615	40,663	40,632	40,714	40,656	40,789	40,694	40,915	1,927
24	3,55	42,725	42,772	42,742	42,822	42,766	42,898	42,804	43,024	1,920
25	3,55	44,635	44,681	44,652	44,732	44,676	44,808	44,714	44,933	1,907
26	3,55	46,735	46,781	46,752	46,832	46,777	46,908	46,815	47,034	1,902
27	3,55	48,651	48,697	48,668	48,748	48,693	48,824	48,731	48,949	1,890
28	3,55	50,744	50,789	50,761	50,840	50,786	50,916	50,824	51,042	1,886
29	3,55	52,665	52,710	52,682	52,761	52,707	52,837	52,746	52,963	1,877
30	3,55	54,751	54,796	54,769	54,847	54,794	54,924	54,833	55,050	1,873
31	3,55	56,677	56,722	56,695	56,773	56,720	56,849	56,759	56,975	1,865
32	3,55	58,757	58,802	58,775	58,854	58,801	58,930	58,840	59,056	1,862
33	3,55	60,687	60,732	60,705	60,783	60,731	60,860	60,770	60,986	1,855
34	3,55	62,763	62,808	62,781	62,859	62,807	62,936	62,846	63,063	1,853
35	3,55	64,697	64,741	64,715	64,793	64,741	64,869	64,781	64,996	1,847
36	3,55	66,768	66,812	66,786	66,864	66,812	66,941	66,852	67,068	1,845
37	3,55	68,705	68,749	68,724	68,801	68,750	68,878	68,790	69,005	1,840
38	3,55	70,772	70,817	70,791	70,868	70,817	70,945	70,858	71,073	1,838
39	3,55	72,713	72,757	72,731	72,808	72,758	72,886	72,799	73,014	1,833
40	3,55	74,777	74,820	74,795	74,872	74,822	74,950	74,863	75,078	1,831
41	3,75	76,088	76,132	76,107	76,185	76,134	76,264	76,176	76,395	1,862
42	3,75	78,149	78,193	78,168	78,246	78,196	78,326	78,238	78,457	1,859
43	3,75	80,096	80,140	80,115	80,193	80,143	80,272	80,185	80,404	1,855
44	3,75	82,154	82,198	82,174	82,251	82,201	82,331	82,244	82,463	1,852
45	3,75	84,103	84,147	84,123	84,200	84,150	84,280	84,193	84,412	1,848
46	3,75	86,159	86,202	86,178	86,256	86,206	86,336	86,250	86,468	1,846
47	3,75	88,109	88,153	88,129	88,207	88,157	88,286	88,201	88,419	1,842
48	3,75	90,163	90,206	90,183	90,260	90,211	90,340	90,255	90,473	1,840
49	3,75	92,116	92,159	92,136	92,213	92,164	92,293	92,208	92,426	1,837
50	3,75	94,167	94,210	94,187	94,264	94,216	94,344	94,260	94,478	1,835
51	3,75	96,121	96,164	96,142	96,218	96,170	96,299	96,214	96,432	1,832
52	3,75	98,170	98,213	98,191	98,267	98,220	98,348	98,264	98,482	1,830
53	3,75	100,126	100,169	100,147	100,223	100,176	100,304	100,221	100,438	1,827
54	3,75	102,174	102,217	102,194	102,271	102,224	102,352	102,268	102,486	1,826
55	3,75	104,131	104,174	104,152	104,228	104,181	104,309	104,226	104,444	1,823
56	3,75	106,177	106,219	106,198	106,274	106,227	106,355	106,272	106,490	1,822
57	3,75	108,136	108,178	108,157	108,233	108,186	108,314	108,232	108,449	1,820
58	3,75	110,180	110,222	110,201	110,277	110,231	110,358	110,276	110,494	1,819
59	3,75	112,140	112,182	112,161	112,237	112,191	112,319	112,237	112,454	1,816
60	3,75	114,182	114,225	114,204	114,279	114,234	114,361	114,280	114,497	1,815
61	3,75	116,144	116,186	116,165	116,241	116,196	116,323	116,242	116,459	1,813
62	3,75	118,185	118,227	118,207	118,282	118,237	118,364	118,284	118,501	1,812
63	3,75	120,148	120,190	120,169	120,245	120,200	120,327	120,247	120,464	1,810
64	3,75	122,187	122,229	122,209	122,284	122,240	122,367	122,287	122,504	1,809
65	3,75	124,151	124,193	124,173	124,248	124,204	124,331	124,251	124,468	1,807
66	3,75	126,190	126,231	126,212	126,287	126,243	126,370	126,290	126,507	1,807
67	3,75	128,155	128,196	128,177	128,252	128,208	128,335	128,255	128,473	1,805
68	3,75	130,192	130,233	130,214	130,289	130,245	130,372	130,293	130,510	1,804
69	3,75	132,158	132,199	132,180	132,255	132,211	132,338	132,259	132,477	1,802
70	3,75	134,194	134,235	134,216	134,291	134,248	134,375	134,296	134,513	1,802
71	3,75	136,161	136,202	136,183	136,258	136,215	136,341	136,263	136,480	1,800
72	3,75	138,196	138,237	138,219	138,293	138,250	138,377	138,299	138,516	1,800
73	3,75	140,164	140,205	140,186	140,261	140,218	140,345	140,267	140,484	1,798
74	3,75	142,198	142,239	142,221	142,295	142,253	142,379	142,302	142,519	1,797
75	3,75	144,166	144,207	144,189	144,264	144,221	144,348	144,271	144,488	1,796
76	3,75	146,200	146,241	146,223	146,297	146,255	146,381	146,304	146,522	1,795
77	3,75	148,169	148,210	148,192	148,266	148,224	148,351	148,274	148,491	1,794
78	3,75	150,201	150,242	150,225	150,299	150,257	150,383	150,307	150,524	1,794
79	3,75	152,171	152,212	152,195	152,269	152,227	152,354	152,278	152,495	1,792
80	3,75	154,203	154,244	154,226	154,300	154,259	154,385	154,310	154,527	1,792
81	3,75	156,174	156,214	156,197	156,271	156,230	156,356	156,281	156,498	1,791
82	3,75	158,205	158,245	158,228	158,302	158,261	158,387	158,312	158,529	1,790
83	3,75	160,176	160,216	160,200	160,273	160,233	160,359	160,284	160,501	1,789
84	3,75	162,206	162,246	162,230	162,304	162,263	162,389	162,314	162,532	1,789
85	3,75	164,178	164,218	164,202	164,276	164,236	164,361	164,287	164,504	1,788
86	3,75	166,208	166,248	166,232	166,305	166,265	166,391	166,317	166,534	1,787
87	3,75	168,180	168,220	168,204	168,278	168,238	168,364	168,290	168,507	1,786
88	3,75	170,209	170,249	170,233	170,307	170,267	170,393	170,319	170,536	1,786
89	3,75	172,182	172,222	172,207	172,280	172,241	172,366	172,293	172,510	1,785
90	3,75	174,210	174,250	174,235	174,308	174,269	174,395	174,321	174,539	1,784
91	3,75	176,184	176,224	176,209	176,282	176,243	176,369	176,296	176,513	1,784
92	3,75	178,212	178,252	178,236	178,309	178,271	178,396	178,323	178,541	1,783
93										

Table 28 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 2$, flat or fillet root, $S_{v \max} = 3,142$

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	4,50	19,304	19,332	19,277	19,324	19,236	19,313	19,168	19,295	1,227
7	4,25	20,329	20,358	20,301	20,350	20,258	20,338	20,188	20,319	1,259
8	4,25	22,779	22,810	22,749	22,801	22,704	22,788	22,629	22,768	1,318
9	4,25	24,498	24,529	24,467	24,520	24,422	24,507	24,346	24,486	1,322
10	4,25	26,837	26,869	26,805	26,859	26,758	26,846	26,679	26,824	1,363
11	4,00	27,964	27,997	27,931	27,987	27,882	27,973	27,799	27,950	1,405
12	4,00	30,226	30,260	30,192	30,250	30,142	30,235	30,056	30,211	1,436
13	4,00	32,034	32,068	32,000	32,058	31,949	32,043	31,862	32,019	1,440
14	4,00	34,253	34,287	34,218	34,276	34,165	34,261	34,076	34,236	1,464
15	4,00	36,087	36,122	36,052	36,111	35,998	36,095	35,909	36,070	1,468
16	4,00	38,274	38,309	38,238	38,298	38,183	38,281	38,092	38,255	1,487
17	4,00	40,128	40,164	40,092	40,152	40,036	40,135	39,944	40,109	1,491
18	4,00	42,291	42,327	42,254	42,315	42,198	42,298	42,104	42,271	1,506
19	4,00	44,161	44,197	44,124	44,185	44,067	44,168	43,972	44,140	1,510
20	4,00	46,306	46,342	46,268	46,330	46,210	46,312	46,114	46,284	1,523
21	4,00	48,188	48,225	48,150	48,212	48,092	48,194	47,994	48,166	1,526
22	4,00	50,318	50,355	50,279	50,342	50,220	50,323	50,122	50,295	1,537
23	4,00	52,211	52,247	52,171	52,234	52,112	52,216	52,013	52,187	1,540
24	4,00	54,329	54,365	54,289	54,352	54,229	54,333	54,128	54,303	1,550
25	4,00	56,230	56,267	56,190	56,253	56,129	56,234	56,028	56,204	1,552
26	4,00	58,338	58,375	58,297	58,361	58,236	58,341	58,134	58,311	1,561
27	4,00	60,247	60,283	60,206	60,270	60,144	60,250	60,041	60,219	1,563
28	4,00	62,346	62,383	62,304	62,369	62,242	62,349	62,138	62,317	1,570
29	3,75	63,556	63,594	63,514	63,580	63,450	63,559	63,344	63,527	1,601
30	3,75	65,646	65,684	65,604	65,670	65,539	65,649	65,432	65,616	1,607
31	3,75	67,567	67,604	67,523	67,590	67,459	67,568	67,351	67,535	1,609
32	3,75	69,650	69,688	69,607	69,673	69,542	69,652	69,433	69,619	1,614
33	3,75	71,575	71,613	71,532	71,598	71,466	71,577	71,357	71,543	1,615
34	3,75	73,654	73,692	73,610	73,677	73,544	73,655	73,434	73,621	1,620
35	3,75	75,583	75,621	75,539	75,606	75,473	75,584	75,362	75,549	1,621
36	3,75	77,657	77,695	77,613	77,679	77,546	77,657	77,434	77,622	1,625
37	3,75	79,590	79,628	79,545	79,612	79,478	79,590	79,366	79,555	1,626
38	3,75	81,660	81,698	81,615	81,682	81,547	81,659	81,434	81,624	1,630
39	3,75	83,596	83,634	83,551	83,618	83,483	83,595	83,370	83,560	1,631
40	3,75	85,662	85,701	85,617	85,684	85,548	85,661	85,434	85,625	1,635
41	3,75	87,602	87,640	87,556	87,624	87,487	87,600	87,373	87,564	1,636
42	3,75	89,664	89,703	89,619	89,686	89,549	89,662	89,434	89,626	1,639
43	3,75	91,607	91,645	91,561	91,628	91,491	91,604	91,375	91,567	1,640
44	3,75	93,666	93,705	93,620	93,688	93,550	93,664	93,434	93,626	1,643
45	3,75	95,611	95,650	95,565	95,633	95,495	95,608	95,378	95,571	1,644
46	3,75	97,668	97,707	97,621	97,689	97,551	97,665	97,433	97,627	1,646
47	3,75	99,616	99,654	99,569	99,636	99,498	99,612	99,380	99,574	1,647
48	3,75	101,670	101,708	101,623	101,691	101,552	101,666	101,433	101,627	1,650
49	3,75	103,619	103,658	103,572	103,640	103,501	103,615	103,381	103,576	1,650
50	3,75	105,671	105,710	105,624	105,692	105,552	105,667	105,432	105,627	1,653
51	3,75	107,623	107,661	107,575	107,643	107,503	107,618	107,383	107,578	1,653
52	3,75	109,673	109,711	109,625	109,693	109,552	109,667	109,432	109,628	1,655
53	3,75	111,626	111,664	111,578	111,646	111,505	111,620	111,384	111,580	1,656
54	3,75	113,674	113,712	113,626	113,694	113,553	113,668	113,431	113,628	1,658
55	3,75	115,629	115,667	115,580	115,649	115,507	115,622	115,385	115,582	1,659
56	3,75	117,675	117,713	117,626	117,695	117,553	117,668	117,430	117,627	1,661
57	3,75	119,632	119,670	119,583	119,651	119,509	119,624	119,386	119,583	1,661
58	3,75	121,676	121,714	121,627	121,695	121,553	121,669	121,430	121,627	1,663
59	3,75	123,634	123,672	123,585	123,653	123,511	123,626	123,387	123,585	1,663
60	3,75	125,677	125,715	125,628	125,696	125,553	125,669	125,429	125,627	1,665
61	3,75	127,637	127,675	127,587	127,655	127,512	127,628	127,387	127,586	1,665
62	3,75	129,678	129,716	129,628	129,697	129,553	129,669	129,428	129,627	1,667
63	3,75	131,639	131,677	131,589	131,657	131,513	131,630	131,388	131,587	1,667
64	3,75	133,679	133,717	133,629	133,697	133,553	133,669	133,427	133,626	1,669
65	3,75	135,641	135,679	135,590	135,659	135,515	135,631	135,388	135,588	1,669
66	3,75	137,680	137,718	137,629	137,698	137,553	137,669	137,426	137,626	1,671
67	3,75	139,643	139,681	139,592	139,660	139,516	139,632	139,388	139,588	1,671
68	3,75	141,680	141,718	141,629	141,698	141,553	141,669	141,425	141,626	1,672
69	3,75	143,644	143,682	143,593	143,662	143,517	143,633	143,388	143,589	1,673
70	3,75	145,681	145,719	145,630	145,698	145,553	145,669	145,424	145,625	1,674
71	3,75	147,646	147,684	147,595	147,663	147,517	147,634	147,389	147,590	1,674
72	3,75	149,682	149,719	149,630	149,699	149,553	149,669	149,423	149,625	1,676
73	3,75	151,648	151,685	151,596	151,665	151,518	151,635	151,389	151,590	1,676
74	3,75	153,682	153,720	153,630	153,699	153,552	153,669	153,422	153,624	1,677
75	3,75	155,649	155,687	155,597	155,666	155,519	155,636	155,388	155,590	1,677
76	3,75	157,683	157,720	157,630	157,699	157,552	157,669	157,421	157,623	1,678
77	3,75	159,650	159,688	159,598	159,667	159,519	159,637	159,388	159,591	1,679
78	3,75	161,683	161,721	161,631	161,699	161,552	161,669	161,420	161,623	1,680
79	3,75	163,652	163,690	163,599	163,668	163,520	163,637	163,388	163,591	1,680
80	3,75	165,683	165,721	165,631	165,699	165,551	165,669	165,419	165,622	1,681
81	3,75	167,653	167,690	167,600	167,669	167,520	167,638	167,388	167,591	1,681
82	3,75	169,684	169,721	169,631	169,699	169,551	169,669	169,418	169,621	1,682
83	3,75	171,654	171,691	171,601	171,669	171,521	171,638	171,388	171,591	1,683
84	3,75	173,684	173,722	173,631	173,700	173,551	173,668	173,417	173,621	1,683
85	3,75	175,655	175,692	175,602	175,670	175,521	175,639	175,387	175,591	1,684
86	3,75	177,684	177,722	177,631	177,700	177,550	177,668	177,416	177,620	1,684
87	3,75	179,656	179,693	179,602	179,671	179,522	179,639	179,387	179,591	1,685
88	3,75	181,685	181,722	181,631	181,700	181,550	181,668	181,415	181,619	1,686
89	3,75	183,657	183,694	183,603	183,672	183,522	183,640	183,386		

5.8 30° pressure angle, module 2,5

Table 29 — Geometry internal spline, $\alpha = 30^\circ$, $m = 2,5$, flat and fillet root, $E_{v \min} = 3,927$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{ii \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	15,00	12,9904	19,78	19,03	18,00	13,58	3,967	3,991	4,027	4,086
7	17,50	15,1554	22,28	21,53	20,50	15,90	3,967	3,992	4,028	4,089
8	20,00	17,3205	24,78	24,03	23,00	18,28	3,968	3,993	4,029	4,091
9	22,50	19,4856	27,29	26,54	25,50	20,68	3,968	3,993	4,031	4,093
10	25,00	21,6506	29,79	29,04	28,00	23,11	3,969	3,994	4,032	4,095
11	27,50	23,8157	32,29	31,54	30,50	25,54	3,969	3,995	4,033	4,097
12	30,00	25,9808	34,80	34,05	33,00	28,00	3,970	3,996	4,034	4,098
13	32,50	28,1458	37,30	36,55	35,50	30,45	3,970	3,996	4,035	4,100
14	35,00	30,3109	39,80	39,05	38,00	32,92	3,971	3,997	4,036	4,102
15	37,50	32,4760	42,30	41,55	40,50	35,39	3,971	3,997	4,037	4,103
16	40,00	34,6410	44,81	44,06	43,00	37,86	3,971	3,998	4,038	4,104
17	42,50	36,8061	47,31	46,56	45,50	40,34	3,972	3,998	4,039	4,106
18	45,00	38,9711	49,81	49,06	48,00	42,82	3,972	3,999	4,040	4,107
19	47,50	41,1362	52,31	51,56	50,50	45,30	3,972	4,000	4,040	4,108
20	50,00	43,3013	54,82	54,07	53,00	47,79	3,973	4,000	4,041	4,110
21	52,50	45,4663	57,32	56,57	55,50	50,27	3,973	4,000	4,042	4,111
22	55,00	47,6314	59,82	59,07	58,00	52,76	3,973	4,001	4,043	4,112
23	57,50	49,7965	62,32	61,57	60,50	55,25	3,973	4,001	4,043	4,113
24	60,00	51,9615	64,82	64,07	63,00	57,74	3,974	4,002	4,044	4,114
25	62,50	54,1266	67,33	66,58	65,50	60,23	3,974	4,002	4,045	4,115
26	65,00	56,2917	69,83	69,08	68,00	62,72	3,974	4,003	4,045	4,116
27	67,50	58,4567	72,33	71,58	70,50	65,21	3,975	4,003	4,046	4,117
28	70,00	60,6218	74,83	74,08	73,00	67,70	3,975	4,003	4,047	4,118
29	72,50	62,7868	77,33	76,58	75,50	70,19	3,975	4,004	4,047	4,119
30	75,00	64,9519	79,83	79,08	78,00	72,69	3,975	4,004	4,048	4,120
31	77,50	67,1170	82,34	81,59	80,50	75,18	3,976	4,005	4,048	4,121
32	80,00	69,2820	84,84	84,09	83,00	77,68	3,976	4,005	4,049	4,122
33	82,50	71,4471	87,34	86,59	85,50	80,17	3,976	4,005	4,049	4,123
34	85,00	73,6122	89,84	89,09	88,00	82,66	3,976	4,006	4,050	4,124
35	87,50	75,7772	92,34	91,59	90,50	85,16	3,976	4,006	4,051	4,125
36	90,00	77,9423	94,84	94,09	93,00	87,66	3,977	4,006	4,051	4,125
37	92,50	80,1073	97,35	96,60	95,50	90,15	3,977	4,007	4,052	4,126
38	95,00	82,2724	99,85	99,10	98,00	92,65	3,977	4,007	4,052	4,127
39	97,50	84,4375	102,35	101,60	100,50	95,14	3,977	4,007	4,053	4,128
40	100,00	86,6025	104,85	104,10	103,00	97,64	3,977	4,008	4,053	4,129
41	102,50	88,7676	107,35	106,60	105,50	100,14	3,978	4,008	4,054	4,130
42	105,00	90,9327	109,85	109,10	108,00	102,63	3,978	4,008	4,054	4,130
43	107,50	93,0977	112,35	111,60	110,50	105,13	3,978	4,009	4,055	4,131
44	110,00	95,2628	114,85	114,10	113,00	107,63	3,978	4,009	4,055	4,132
45	112,50	97,4279	117,36	116,61	115,50	110,12	3,978	4,009	4,056	4,133
46	115,00	99,5929	119,86	119,11	118,00	112,62	3,979	4,010	4,056	4,133
47	117,50	101,7580	122,36	121,61	120,50	115,12	3,979	4,010	4,056	4,134
48	120,00	103,9230	124,86	124,11	123,00	117,62	3,979	4,010	4,057	4,135
49	122,50	106,0881	127,36	126,61	125,50	120,11	3,979	4,010	4,057	4,136
50	125,00	108,2532	129,86	129,11	128,00	122,61	3,979	4,011	4,058	4,136
51	127,50	110,4182	132,36	131,61	130,50	125,11	3,979	4,011	4,058	4,137
52	130,00	112,5833	134,86	134,11	133,00	127,61	3,980	4,011	4,059	4,138
53	132,50	114,7484	137,37	136,62	135,50	130,10	3,980	4,012	4,059	4,138
54	135,00	116,9134	139,87	139,12	138,00	132,60	3,980	4,012	4,059	4,139
55	137,50	119,0785	142,37	141,62	140,50	135,10	3,980	4,012	4,060	4,140
56	140,00	121,2436	144,87	144,12	143,00	137,60	3,980	4,012	4,060	4,140
57	142,50	123,4086	147,37	146,62	145,50	140,10	3,980	4,013	4,061	4,141
58	145,00	125,5737	149,87	149,12	148,00	142,60	3,981	4,013	4,061	4,142
59	147,50	127,7387	152,37	151,62	150,50	145,09	3,981	4,013	4,062	4,142
60	150,00	129,9038	154,87	154,12	153,00	147,59	3,981	4,013	4,062	4,143
61	152,50	132,0688	157,37	156,62	155,50	150,09	3,981	4,014	4,062	4,143
62	155,00	134,2339	159,88	159,13	158,00	152,59	3,981	4,014	4,063	4,144
63	157,50	136,3990	162,38	161,63	160,50	155,09	3,981	4,014	4,063	4,145
64	160,00	138,5641	164,88	164,13	163,00	157,59	3,982	4,014	4,063	4,145
65	162,50	140,7291	167,38	166,63	165,50	160,08	3,982	4,015	4,064	4,146
66	165,00	142,8942	169,88	169,13	168,00	162,58	3,982	4,015	4,064	4,147
67	167,50	145,0593	172,38	171,63	170,50	165,08	3,982	4,015	4,065	4,147
68	170,00	147,2243	174,88	174,13	173,00	167,58	3,982	4,015	4,065	4,148
69	172,50	149,3894	177,38	176,63	175,50	170,08	3,982	4,016	4,065	4,148
70	175,00	151,5544	179,88	179,13	178,00	172,58	3,982	4,016	4,066	4,149
71	177,50	153,7195	182,39	181,64	180,50	175,08	3,983	4,016	4,066	4,149
72	180,00	155,8846	184,89	184,14	183,00	177,58	3,983	4,016	4,066	4,150
73	182,50	158,0496	187,39	186,64	185,50	180,08	3,983	4,016	4,067	4,151
74	185,00	160,2147	189,89	189,14	188,00	182,57	3,983	4,017	4,067	4,151
75	187,50	162,3798	192,39	191,64	190,50	185,07	3,983	4,017	4,067	4,152
76	190,00	164,5448	194,89	194,14	193,00	187,57	3,983	4,017	4,068	4,152
77	192,50	166,7099	197,39	196,64	195,50	190,07	3,983	4,017	4,068	4,153
78	195,00	168,8750	199,89	199,14	198,00	192,57	3,984	4,018	4,069	4,153
79	197,50	171,0400	202,39	201,64	200,50	195,07	3,984	4,018	4,069	4,154
80	200,00	173,2051	204,89	204,14	203,00	197,57	3,984	4,018	4,069	4,154
81	202,50	175,3701	207,39	206,64	205,50	200,07	3,984	4,018	4,070	4,155
82	205,00	177,5352	209,90	209,15	208,00	202,57	3,984	4,018	4,070	4,156
83	207,50	179,7003	212,40	211,65	210,50	205,07	3,984	4,019	4,070	4,156
84	210,00	181,8653	214,90	214,15	213,00	207,57	3,984	4,019	4,071	4,157
85	212,50	184,0304	217,40	216,65	215,50	210,06	3,985	4,019	4,071	4,157
86	215,00	186,1955	219,90	219,15	218,00	212,56	3,985	4,019	4,071	4,158
87	217,50	188,3605	222,40	221,65	220,50	215,06	3,985	4,019	4,071	4,158
88	220,00	190,5256	224,90	224,15	223,00	217,56	3,985	4,020	4,072	4,159
89	222,50	192,6907	227,40	226,65	225,50	220,06	3,985	4,020	4,072	4,159
90	225,00	194,8557	229,90	229,15	228,00	222,56	3,985	4,020	4,072	4,160
91	227,50	197,0208	232,40	231,65	230,50	225,06	3,985	4,020	4,073	4,160
92	230,00	199,1858	234,90	234,15	233,00	227,56	3,985	4,020	4,073	4,161
93	232,50	201,3509	237,41	236,66	235,50	230,06	3,986	4,021	4,073	4,161
94	235,00	203,5160	239,91	239,16	238,00	232,56	3,986	4,021	4,074	4,162
95	237,50	205,6810	242,41	241,66	240,50	235,06	3,986	4,021	4,074	4,162
96	240,00	207,8461	244,91	244,16	243,00	237,56	3,986	4,021	4,074	4,163
97	242,50	210,0112	247,41	246,66	245,50	240,06	3,986	4,021	4,075	4,163
98	245,00	212,1762	249,91	249,16	248,00	242,56	3,986	4,022	4,075	4,164
99	247,50	214,3413	252,41	251,66	250,50	245,06	3,986	4,022	4,075	4,164
100	250,00	216,5064	254,91	254,16	253,00	247,55	3,986	4,022	4,076	4,165

Table 30 — Geometry external spline, $\alpha = 30^\circ$, $m = 2,5$, flat and fillet root, $S_{v \max} = 3,927$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	15,00	12,9904	17,50	13,08	10,22	10,97	3,887	3,863	3,827	3,768
7	17,50	15,1554	20,00	15,40	12,72	13,47	3,887	3,862	3,826	3,765
8	20,00	17,3205	22,50	17,78	15,22	15,97	3,886	3,861	3,825	3,763
9	22,50	19,4856	25,00	20,18	17,71	18,46	3,886	3,861	3,823	3,761
10	25,00	21,6506	27,50	22,61	20,21	20,96	3,885	3,860	3,822	3,759
11	27,50	23,8157	30,00	25,04	22,71	23,46	3,885	3,859	3,821	3,757
12	30,00	25,9808	32,50	27,50	25,20	25,95	3,884	3,858	3,820	3,756
13	32,50	28,1458	35,00	29,95	27,70	28,45	3,884	3,858	3,819	3,754
14	35,00	30,3109	37,50	32,42	30,20	30,95	3,883	3,857	3,818	3,752
15	37,50	32,4760	40,00	34,89	32,70	33,45	3,883	3,857	3,817	3,751
16	40,00	34,6410	42,50	37,36	35,19	35,94	3,883	3,856	3,816	3,750
17	42,50	36,8061	45,00	39,84	37,69	38,44	3,882	3,856	3,815	3,748
18	45,00	38,9711	47,50	42,32	40,19	40,94	3,882	3,855	3,814	3,747
19	47,50	41,1362	50,00	44,80	42,69	43,44	3,882	3,854	3,814	3,746
20	50,00	43,3013	52,50	47,29	45,18	45,93	3,881	3,854	3,813	3,744
21	52,50	45,4663	55,00	49,77	47,68	48,43	3,881	3,854	3,812	3,743
22	55,00	47,6314	57,50	52,26	50,18	50,93	3,881	3,853	3,811	3,742
23	57,50	49,7965	60,00	54,75	52,68	53,43	3,881	3,853	3,811	3,741
24	60,00	51,9615	62,50	57,24	55,18	55,93	3,880	3,852	3,810	3,740
25	62,50	54,1266	65,00	59,73	57,67	58,42	3,880	3,852	3,809	3,739
26	65,00	56,2917	67,50	62,22	60,17	60,92	3,880	3,851	3,809	3,738
27	67,50	58,4567	70,00	64,71	62,67	63,42	3,879	3,851	3,808	3,737
28	70,00	60,6218	72,50	67,20	65,17	65,92	3,879	3,851	3,807	3,736
29	72,50	62,7868	75,00	69,69	67,67	68,42	3,879	3,850	3,807	3,735
30	75,00	64,9519	77,50	72,19	70,17	70,92	3,879	3,850	3,806	3,734
31	77,50	67,1170	80,00	74,68	72,66	73,41	3,878	3,849	3,806	3,733
32	80,00	69,2820	82,50	77,18	75,16	75,91	3,878	3,849	3,805	3,732
33	82,50	71,4471	85,00	79,67	77,66	78,41	3,878	3,849	3,805	3,731
34	85,00	73,6122	87,50	82,16	80,16	80,91	3,878	3,848	3,804	3,730
35	87,50	75,7772	90,00	84,66	82,66	83,41	3,878	3,848	3,803	3,729
36	90,00	77,9423	92,50	87,16	85,16	85,91	3,877	3,848	3,803	3,729
37	92,50	80,1073	95,00	89,65	87,65	88,40	3,877	3,847	3,802	3,728
38	95,00	82,2724	97,50	92,15	90,15	90,90	3,877	3,847	3,802	3,727
39	97,50	84,4375	100,00	94,64	92,65	93,40	3,877	3,847	3,801	3,726
40	100,00	86,6025	102,50	97,14	95,15	95,90	3,877	3,846	3,801	3,725
41	102,50	88,7676	105,00	99,64	97,65	98,40	3,876	3,846	3,800	3,724
42	105,00	90,9327	107,50	102,13	100,15	100,90	3,876	3,846	3,800	3,724
43	107,50	93,0977	110,00	104,63	102,65	103,40	3,876	3,845	3,799	3,723
44	110,00	95,2628	112,50	107,13	105,15	105,90	3,876	3,845	3,799	3,722
45	112,50	97,4279	115,00	109,62	107,64	108,39	3,876	3,845	3,798	3,721
46	115,00	99,5929	117,50	112,12	110,14	110,89	3,875	3,844	3,798	3,721
47	117,50	101,7580	120,00	114,62	112,64	113,39	3,875	3,844	3,798	3,720
48	120,00	103,9230	122,50	117,12	115,14	115,89	3,875	3,844	3,797	3,719
49	122,50	106,0881	125,00	119,61	117,64	118,39	3,875	3,844	3,797	3,718
50	125,00	108,2532	127,50	122,11	120,14	120,89	3,875	3,843	3,796	3,718
51	127,50	110,4182	130,00	124,61	122,64	123,39	3,875	3,843	3,796	3,717
52	130,00	112,5833	132,50	127,11	125,14	125,89	3,874	3,843	3,795	3,716
53	132,50	114,7484	135,00	129,60	127,63	128,38	3,874	3,842	3,795	3,716
54	135,00	116,9134	137,50	132,10	130,13	130,88	3,874	3,842	3,795	3,715
55	137,50	119,0785	140,00	134,60	132,63	133,38	3,874	3,842	3,794	3,714
56	140,00	121,2436	142,50	137,10	135,13	135,88	3,874	3,842	3,794	3,714
57	142,50	123,4086	145,00	139,60	137,63	138,38	3,874	3,841	3,793	3,713
58	145,00	125,5737	147,50	142,10	140,13	140,88	3,873	3,841	3,793	3,712
59	147,50	127,7387	150,00	144,59	142,63	143,38	3,873	3,841	3,792	3,712
60	150,00	129,9038	152,50	147,09	145,13	145,88	3,873	3,841	3,792	3,711
61	152,50	132,0689	155,00	149,59	147,63	148,38	3,873	3,840	3,792	3,711
62	155,00	134,2339	157,50	152,09	150,12	150,87	3,873	3,840	3,791	3,710
63	157,50	136,3990	160,00	154,59	152,62	153,37	3,873	3,840	3,791	3,709
64	160,00	138,5641	162,50	157,09	155,12	155,87	3,872	3,840	3,791	3,709
65	162,50	140,7291	165,00	159,58	157,62	158,37	3,872	3,839	3,790	3,708
66	165,00	142,8942	167,50	162,08	160,12	160,87	3,872	3,839	3,790	3,707
67	167,50	145,0593	170,00	164,58	162,62	163,37	3,872	3,839	3,789	3,707
68	170,00	147,2243	172,50	167,08	165,12	165,87	3,872	3,839	3,789	3,706
69	172,50	149,3894	175,00	169,58	167,62	168,37	3,872	3,838	3,789	3,706
70	175,00	151,5544	177,50	172,08	170,12	170,87	3,872	3,838	3,788	3,705
71	177,50	153,7195	180,00	174,58	172,61	173,36	3,871	3,838	3,788	3,705
72	180,00	155,8846	182,50	177,08	175,11	175,86	3,871	3,838	3,788	3,704
73	182,50	158,0496	185,00	179,58	177,61	178,36	3,871	3,838	3,787	3,703
74	185,00	160,2147	187,50	182,07	180,11	180,86	3,871	3,837	3,787	3,703
75	187,50	162,3798	190,00	184,57	182,61	183,36	3,871	3,837	3,787	3,702
76	190,00	164,5448	192,50	187,07	185,11	185,86	3,871	3,837	3,786	3,702
77	192,50	166,7099	195,00	189,57	187,61	188,36	3,871	3,837	3,786	3,701
78	195,00	168,8750	197,50	192,07	190,11	190,86	3,870	3,836	3,785	3,701
79	197,50	171,0400	200,00	194,57	192,61	193,36	3,870	3,836	3,785	3,700
80	200,00	173,2051	202,50	197,07	195,11	195,86	3,870	3,836	3,785	3,700
81	202,50	175,3701	205,00	199,57	197,61	198,36	3,870	3,836	3,784	3,699
82	205,00	177,5352	207,50	202,07	200,10	200,85	3,870	3,836	3,784	3,698
83	207,50	179,7003	210,00	204,57	202,60	203,35	3,870	3,835	3,784	3,698
84	210,00	181,8653	212,50	207,07	205,10	205,85	3,870	3,835	3,783	3,697
85	212,50	184,0304	215,00	209,56	207,60	208,35	3,869	3,835	3,783	3,697
86	215,00	186,1955	217,50	212,06	210,10	210,85	3,869	3,835	3,783	3,696
87	217,50	188,3605	220,00	214,56	212,60	213,35	3,869	3,835	3,783	3,696
88	220,00	190,5256	222,50	217,06	215,10	215,85	3,869	3,834	3,782	3,695
89	222,50	192,6907	225,00	219,56	217,60	218,35	3,869	3,834	3,782	3,695
90	225,00	194,8557	227,50	222,06	220,10	220,85	3,869	3,834	3,782	3,694
91	227,50	197,0208	230,00	224,56	222,60	223,35	3,869	3,834	3,781	3,694
92	230,00	199,1858	232,50	227,06	225,10	225,85	3,869	3,834	3,781	3,693
93	232,50	201,3509	235,00	229,56	227,59	228,34	3,868	3,833	3,781	3,693
94	235,00	203,5160	237,50	232,06	230,09	230,84	3,868	3,833	3,780	3,692
95	237,50	205,6810	240,00	234,56	232,59	233,34	3,868	3,833	3,780	3,692
96	240,00	207,8461	242,50	237,06	235,09	235,84	3,868	3,833	3,780	3,691
97	242,50	210,0112	245,00	239,56	237,59	238,34	3,868	3,833	3,779	3,691
98	245,00	212,1762	247,50	242,06	240,09	240,84	3,868	3,832	3,779	3,690
99	247,50	214,3413	250,00	244,56	242,59	243,34	3,868	3,832	3,779	3,690
100	250,00	216,5064	252,50	247,05	245,09	245,84	3,868	3,832	3,778	3,689

Table 31 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 2,5$, flat or fillet root, $E_{v \min} = 3,927$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	4,25	13,637	13,723	13,662	13,800	13,697	13,910	13,751	14,079	2,647
9	4,25	15,935	16,004	15,955	16,069	15,984	16,164	16,029	16,316	2,371
10	4,25	18,808	18,872	18,827	18,933	18,854	19,024	18,897	19,169	2,272
11	4,25	21,089	21,148	21,107	21,207	21,133	21,292	21,173	21,432	2,160
12	4,25	23,880	23,938	23,898	23,995	23,923	24,079	23,963	24,217	2,119
13	4,50	25,261	25,325	25,281	25,388	25,309	25,481	25,354	25,633	2,296
14	4,50	28,022	28,084	28,042	28,145	28,070	28,236	28,113	28,384	2,233
15	4,50	30,364	30,422	30,383	30,482	30,410	30,570	30,452	30,714	2,162
16	4,50	33,083	33,140	33,101	33,199	33,128	33,286	33,170	33,428	2,127
17	4,50	35,434	35,489	35,452	35,547	35,479	35,632	35,520	35,773	2,080
18	4,50	38,123	38,178	38,142	38,235	38,168	38,320	38,210	38,460	2,058
19	4,50	40,485	40,539	40,503	40,595	40,530	40,680	40,571	40,818	2,025
20	4,50	43,153	43,206	43,171	43,263	43,198	43,347	43,239	43,485	2,010
21	4,50	45,525	45,577	45,543	45,633	45,570	45,717	45,611	45,854	1,985
22	4,50	48,176	48,228	48,194	48,284	48,221	48,367	48,262	48,505	1,974
23	4,50	50,557	50,608	50,575	50,664	50,602	50,747	50,643	50,884	1,955
24	4,50	53,194	53,245	53,213	53,301	53,239	53,384	53,281	53,521	1,946
25	4,50	55,583	55,633	55,602	55,689	55,628	55,772	55,670	55,908	1,931
26	4,50	58,209	58,259	58,227	58,314	58,254	58,397	58,296	58,534	1,925
27	4,50	60,605	60,655	60,624	60,710	60,651	60,793	60,692	60,930	1,912
28	4,50	63,221	63,271	63,240	63,326	63,267	63,409	63,309	63,546	1,907
29	4,50	65,623	65,673	65,643	65,728	65,670	65,811	65,712	65,948	1,896
30	4,50	68,231	68,280	68,251	68,336	68,278	68,419	68,321	68,556	1,892
31	4,50	70,640	70,688	70,659	70,744	70,686	70,827	70,729	70,964	1,883
32	4,50	73,240	73,289	73,260	73,345	73,288	73,428	73,331	73,566	1,879
33	4,50	75,654	75,702	75,673	75,758	75,701	75,841	75,744	75,979	1,872
34	4,50	78,248	78,296	78,268	78,352	78,296	78,436	78,340	78,574	1,869
35	4,50	80,666	80,714	80,686	80,770	80,714	80,853	80,758	80,992	1,862
36	4,50	83,255	83,303	83,275	83,359	83,304	83,443	83,348	83,581	1,859
37	4,50	85,677	85,725	85,697	85,781	85,726	85,864	85,770	86,003	1,853
38	4,50	88,261	88,309	88,282	88,365	88,311	88,449	88,355	88,588	1,851
39	4,50	90,687	90,734	90,708	90,790	90,736	90,874	90,781	91,014	1,846
40	4,50	93,267	93,314	93,288	93,370	93,317	93,455	93,362	93,595	1,844
41	4,50	95,696	95,743	95,717	95,799	95,746	95,884	95,791	96,024	1,839
42	4,50	98,272	98,319	98,293	98,375	98,322	98,460	98,368	98,600	1,838
43	4,50	100,704	100,751	100,725	100,807	100,755	100,892	100,801	101,033	1,833
44	4,50	103,277	103,323	103,298	103,380	103,328	103,465	103,374	103,606	1,832
45	4,50	105,712	105,758	105,733	105,815	105,763	105,900	105,809	106,041	1,828
46	4,50	108,281	108,327	108,302	108,384	108,332	108,469	108,379	108,611	1,827
47	4,50	110,718	110,764	110,740	110,822	110,770	110,907	110,817	111,049	1,823
48	4,50	113,285	113,331	113,306	113,388	113,337	113,474	113,384	113,616	1,822
49	4,50	115,725	115,771	115,747	115,828	115,777	115,914	115,825	116,056	1,819
50	4,50	118,288	118,334	118,310	118,391	118,341	118,477	118,389	118,620	1,818
51	4,50	120,731	120,776	120,753	120,834	120,784	120,920	120,832	121,063	1,815
52	4,50	123,292	123,337	123,314	123,395	123,345	123,481	123,393	123,625	1,814
53	4,50	125,736	125,781	125,758	125,839	125,790	125,926	125,838	126,069	1,812
54	4,50	128,295	128,340	128,317	128,398	128,349	128,485	128,397	128,629	1,811
55	4,50	130,741	130,786	130,764	130,844	130,795	130,931	130,844	131,076	1,808
56	4,50	133,298	133,343	133,320	133,401	133,352	133,488	133,401	133,633	1,807
57	4,50	135,746	135,791	135,769	135,849	135,801	135,936	135,850	136,081	1,805
58	4,50	138,300	138,345	138,323	138,404	138,356	138,491	138,405	138,637	1,804
59	4,50	140,750	140,795	140,773	140,853	140,806	140,941	140,856	141,087	1,802
60	4,50	143,303	143,348	143,326	143,406	143,359	143,494	143,409	143,640	1,802
61	4,50	145,754	145,799	145,778	145,858	145,810	145,946	145,861	146,092	1,800
62	4,50	148,305	148,350	148,329	148,409	148,362	148,497	148,412	148,644	1,799
63	4,50	150,758	150,803	150,782	150,862	150,815	150,950	150,866	151,097	1,797
64	4,50	153,308	153,352	153,331	153,411	153,365	153,500	153,416	153,647	1,797
65	4,50	155,762	155,806	155,786	155,865	155,819	155,954	155,871	156,102	1,795
66	4,50	158,310	158,354	158,334	158,413	158,367	158,502	158,419	158,650	1,795
67	4,50	160,765	160,809	160,789	160,869	160,823	160,958	160,875	161,106	1,793
68	4,50	163,312	163,356	163,336	163,415	163,370	163,505	163,422	163,653	1,792
69	4,50	165,769	165,812	165,793	165,872	165,827	165,962	165,880	166,111	1,791
70	4,50	168,314	168,357	168,338	168,417	168,373	168,507	168,425	168,656	1,791
71	4,50	170,772	170,815	170,796	170,875	170,831	170,965	170,884	171,115	1,789
72	4,50	173,316	173,359	173,340	173,419	173,375	173,509	173,428	173,659	1,789
73	4,50	175,775	175,818	175,800	175,879	175,835	175,969	175,888	176,119	1,787
74	4,50	178,318	178,361	178,342	178,421	178,377	178,512	178,431	178,662	1,787
75	4,50	180,778	180,821	180,803	180,881	180,838	180,972	180,892	181,123	1,786
76	4,50	183,319	183,362	183,344	183,423	183,380	183,514	183,434	183,665	1,785
77	4,50	185,781	185,824	185,806	185,884	185,841	185,975	185,895	186,127	1,784
78	4,50	188,321	188,364	188,346	188,425	188,382	188,516	188,436	188,668	1,784
79	4,50	190,783	190,826	190,809	190,887	190,844	190,978	190,899	191,130	1,783
80	4,50	193,323	193,365	193,348	193,426	193,384	193,518	193,439	193,670	1,782
81	4,50	195,786	195,828	195,811	195,890	195,847	195,981	195,903	196,134	1,781
82	4,50	198,324	198,367	198,350	198,428	198,386	198,520	198,442	198,673	1,781
83	4,50	200,788	200,831	200,814	200,892	200,850	200,984	200,906	201,137	1,780
84	4,50	203,326	203,368	203,352	203,430	203,388	203,522	203,444	203,675	1,780
85	4,50	205,790	205,833	205,817	205,894	205,853	205,987	205,909	206,140	1,779
86	4,50	208,327	208,369	208,353	208,431	208,390	208,524	208,446	208,678	1,778
87	4,50	210,793	210,835	210,819	210,897	210,856	210,990	210,913	211,144	1,778
88	4,50	213,328	213,371	213,355	213,433	213,392	213,525	213,449	213,680	1,777
89	4,50	215,795	215,837	215,821	215,899	215,859	215,992	215,916	216,147	1,776
90	4,50	218,330	218,372	218,356	218,434	218,394	218,527	218,451	218,682	1,776
91	4,50	220,797	220,839	220,824	220,901	220,861	220,995	220,91		

Table 32 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 2,5$, flat or fillet root, $S_{v \max} = 3,927$

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	5,60	24,077	24,108	24,048	24,100	24,004	24,087	23,931	24,068	1,227
7	5,60	26,115	26,146	26,085	26,137	26,041	26,125	25,967	26,105	1,227
8	5,30	28,451	28,484	28,419	28,475	28,370	28,461	28,290	28,439	1,317
9	5,30	30,599	30,633	30,567	30,623	30,518	30,609	30,436	30,587	1,320
10	5,30	33,523	33,558	33,489	33,548	33,438	33,533	33,352	33,510	1,362
11	5,00	34,964	35,000	34,929	34,989	34,876	34,974	34,787	34,950	1,402
12	5,00	37,793	37,829	37,756	37,818	37,701	37,802	37,609	37,777	1,433
13	5,00	40,053	40,089	40,016	40,078	39,960	40,062	39,867	40,036	1,437
14	5,00	42,826	42,863	42,788	42,852	42,731	42,835	42,636	42,808	1,461
15	5,00	45,119	45,157	45,081	45,145	45,023	45,127	44,927	45,100	1,465
16	5,00	47,853	47,891	47,814	47,878	47,755	47,861	47,656	47,833	1,484
17	5,00	50,171	50,209	50,131	50,196	50,072	50,178	49,972	50,150	1,488
18	5,00	52,875	52,913	52,835	52,900	52,774	52,882	52,673	52,853	1,504
19	5,00	55,212	55,251	55,172	55,238	55,111	55,219	55,008	55,189	1,507
20	5,00	57,893	57,932	57,852	57,919	57,790	57,899	57,686	57,869	1,520
21	4,75	59,557	59,596	59,514	59,582	59,450	59,562	59,344	59,531	1,550
22	4,75	62,216	62,255	62,173	62,241	62,108	62,221	62,000	62,189	1,561
23	4,75	64,581	64,621	64,538	64,606	64,473	64,586	64,364	64,554	1,563
24	4,75	67,225	67,265	67,182	67,251	67,116	67,230	67,006	67,197	1,572
25	4,75	69,602	69,642	69,557	69,627	69,491	69,606	69,380	69,573	1,574
26	4,75	72,234	72,274	72,189	72,259	72,122	72,238	72,010	72,204	1,582
27	4,75	74,619	74,659	74,574	74,644	74,507	74,622	74,394	74,588	1,584
28	4,75	77,241	77,282	77,196	77,266	77,128	77,244	77,014	77,209	1,591
29	4,75	79,634	79,675	79,589	79,659	79,520	79,637	79,406	79,602	1,593
30	4,75	82,248	82,288	82,201	82,272	82,132	82,249	82,017	82,214	1,599
31	4,75	84,648	84,688	84,601	84,672	84,532	84,649	84,416	84,614	1,600
32	4,75	87,253	87,294	87,206	87,277	87,136	87,254	87,019	87,218	1,606
33	4,75	89,659	89,700	89,612	89,683	89,542	89,660	89,424	89,624	1,607
34	4,75	92,258	92,299	92,211	92,282	92,140	92,258	92,021	92,221	1,612
35	4,75	94,670	94,710	94,622	94,694	94,551	94,670	94,431	94,632	1,614
36	4,75	97,263	97,303	97,215	97,286	97,143	97,262	97,022	97,224	1,618
37	4,75	99,679	99,720	99,631	99,702	99,559	99,678	99,438	99,640	1,619
38	4,75	102,267	102,307	102,218	102,290	102,145	102,265	102,024	102,227	1,623
39	4,75	104,687	104,728	104,639	104,710	104,565	104,685	104,443	104,647	1,624
40	4,75	107,270	107,311	107,221	107,293	107,147	107,268	107,025	107,229	1,628
41	4,75	109,695	109,735	109,645	109,717	109,572	109,692	109,448	109,652	1,629
42	4,75	112,273	112,314	112,224	112,296	112,149	112,270	112,025	112,230	1,632
43	4,75	114,701	114,742	114,652	114,724	114,577	114,698	114,452	114,658	1,633
44	4,75	117,276	117,317	117,226	117,299	117,151	117,272	117,026	117,232	1,636
45	4,75	119,708	119,748	119,657	119,730	119,582	119,703	119,456	119,662	1,637
46	4,75	122,279	122,320	122,228	122,301	122,153	122,274	122,026	122,233	1,640
47	4,75	124,713	124,754	124,662	124,735	124,586	124,708	124,459	124,666	1,641
48	4,75	127,281	127,322	127,230	127,303	127,154	127,276	127,026	127,234	1,644
49	4,75	129,718	129,759	129,667	129,740	129,590	129,712	129,462	129,670	1,644
50	4,75	132,284	132,324	132,232	132,305	132,155	132,277	132,026	132,235	1,647
51	4,75	134,723	134,764	134,671	134,744	134,594	134,716	134,464	134,673	1,647
52	4,75	137,286	137,326	137,234	137,306	137,156	137,278	137,026	137,235	1,650
53	4,75	139,727	139,768	139,675	139,748	139,597	139,720	139,466	139,676	1,650
54	4,75	142,287	142,328	142,235	142,308	142,157	142,279	142,025	142,236	1,652
55	4,75	144,731	144,772	144,679	144,752	144,600	144,723	144,468	144,679	1,653
56	4,75	147,289	147,330	147,236	147,309	147,157	147,280	147,025	147,236	1,655
57	4,75	149,735	149,776	149,682	149,755	149,603	149,726	149,470	149,681	1,656
58	4,75	152,291	152,331	152,238	152,311	152,158	152,281	152,025	152,236	1,658
59	4,75	154,738	154,779	154,685	154,758	154,605	154,728	154,471	154,683	1,658
60	4,75	157,292	157,333	157,239	157,312	157,158	157,282	157,024	157,236	1,660
61	4,75	159,742	159,782	159,688	159,761	159,607	159,731	159,473	159,685	1,660
62	4,75	162,294	162,334	162,240	162,313	162,159	162,283	162,024	162,236	1,662
63	4,75	164,744	164,785	164,690	164,763	164,609	164,733	164,474	164,686	1,662
64	4,75	167,295	167,335	167,241	167,314	167,159	167,283	167,023	167,236	1,664
65	4,75	169,747	169,788	169,693	169,766	169,611	169,735	169,475	169,688	1,664
66	4,75	172,296	172,336	172,241	172,314	172,159	172,283	172,022	172,236	1,666
67	4,75	174,750	174,790	174,695	174,768	174,613	174,737	174,475	174,689	1,666
68	4,75	177,297	177,337	177,242	177,315	177,159	177,284	177,022	177,236	1,668
69	4,75	179,752	179,792	179,697	179,770	179,615	179,739	179,476	179,690	1,668
70	4,75	182,298	182,338	182,243	182,316	182,160	182,284	182,021	182,235	1,669
71	4,75	184,754	184,795	184,699	184,772	184,616	184,740	184,476	184,691	1,670
72	4,75	187,299	187,339	187,243	187,316	187,160	187,284	187,020	187,235	1,671
73	4,75	189,757	189,797	189,701	189,774	189,617	189,742	189,477	189,692	1,672
74	4,75	192,300	192,340	192,244	192,317	192,160	192,284	192,019	192,235	1,673
75	4,75	194,759	194,799	194,702	194,775	194,618	194,743	194,477	194,693	1,673
76	4,75	197,301	197,341	197,244	197,317	197,160	197,285	197,018	197,234	1,674
77	4,75	199,760	199,800	199,704	199,777	199,619	199,744	199,477	199,693	1,675
78	4,75	202,301	202,341	202,245	202,318	202,160	202,285	202,017	202,234	1,676
79	4,75	204,762	204,802	204,705	204,778	204,620	204,745	204,478	204,694	1,676
80	4,75	207,302	207,342	207,245	207,318	207,159	207,285	207,017	207,233	1,677
81	4,75	209,764	209,804	209,707	209,780	209,621	209,746	209,478	209,694	1,677
82	4,75	212,303	212,342	212,245	212,318	212,159	212,285	212,016	212,233	1,678
83	4,75	214,765	214,805	214,708	214,781	214,622	214,747	214,478	214,695	1,679
84	4,75	217,303	217,343	217,246	217,319	217,159	217,284	217,015	217,232	1,679
85	4,75	219,767	219,807	219,709	219,782	219,622	219,748	219,478	219,695	1,680
86	4,75	222,304	222,343	222,246	222,319	222,159	222,284	222,014	222,232	1,681
87	4,75	224,768	224,808	224,710	224,783	224,623	224,748	224,477	224,695	1,681
88	4,75	227,304	227,344	227,246	227,319	227,159	227,284	227,013	227,231	1,68

5.9 30° pressure angle, module 3

Table 33 — Geometry internal spline, $\alpha = 30^\circ$, $m = 3$, flat and fillet root, $E_{v \min} = 4,712$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{Fi \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	18,00	15,5885	23,69	22,79	21,60	16,29	4,754	4,780	4,818	4,881
7	21,00	18,1865	26,70	25,80	24,60	19,08	4,755	4,781	4,819	4,884
8	24,00	20,7846	29,70	28,80	27,60	21,93	4,756	4,782	4,821	4,886
9	27,00	23,3827	32,71	31,81	30,60	24,82	4,756	4,783	4,822	4,889
10	30,00	25,9808	35,71	34,81	33,60	27,73	4,757	4,783	4,824	4,891
11	33,00	28,5788	38,71	37,81	36,60	30,65	4,757	4,784	4,825	4,893
12	36,00	31,1769	41,72	40,82	39,60	33,59	4,758	4,785	4,826	4,894
13	39,00	33,7750	44,72	43,82	42,60	36,54	4,758	4,786	4,827	4,896
14	42,00	36,3731	47,72	46,82	45,60	39,50	4,758	4,786	4,828	4,898
15	45,00	38,9711	50,72	49,82	48,60	42,47	4,759	4,787	4,829	4,899
16	48,00	41,5692	53,73	52,83	51,60	45,44	4,759	4,788	4,830	4,901
17	51,00	44,1673	56,73	55,83	54,60	48,41	4,760	4,788	4,831	4,902
18	54,00	46,7654	59,73	58,83	57,60	51,38	4,760	4,789	4,832	4,904
19	57,00	49,3634	62,73	61,83	60,60	54,36	4,760	4,789	4,833	4,905
20	60,00	51,9615	65,74	64,84	63,60	57,34	4,761	4,790	4,833	4,906
21	63,00	54,5596	68,74	67,84	66,60	60,33	4,761	4,790	4,834	4,908
22	66,00	57,1577	71,74	70,84	69,60	63,31	4,761	4,791	4,835	4,909
23	69,00	59,7558	74,74	73,84	72,60	66,30	4,762	4,791	4,836	4,910
24	72,00	62,3539	77,75	76,85	75,60	69,28	4,762	4,792	4,837	4,911
25	75,00	64,9519	80,75	79,85	78,60	72,27	4,762	4,792	4,837	4,912
26	78,00	67,5500	83,75	82,85	81,60	75,26	4,762	4,793	4,838	4,913
27	81,00	70,1481	86,75	85,85	84,60	78,25	4,763	4,793	4,839	4,915
28	84,00	72,7461	89,75	88,85	87,60	81,24	4,763	4,793	4,839	4,916
29	87,00	75,3442	92,75	91,85	90,60	84,23	4,763	4,794	4,840	4,917
30	90,00	77,9423	95,76	94,86	93,60	87,22	4,763	4,794	4,841	4,918
31	93,00	80,5404	98,76	97,86	96,60	90,22	4,764	4,795	4,841	4,919
32	96,00	83,1384	101,76	100,86	99,60	93,21	4,764	4,795	4,842	4,920
33	99,00	85,7365	104,76	103,86	102,60	96,20	4,764	4,795	4,842	4,921
34	102,00	88,3346	107,76	106,86	105,60	99,20	4,764	4,796	4,843	4,922
35	105,00	90,9327	110,76	109,86	108,60	102,19	4,765	4,796	4,844	4,923
36	108,00	93,5307	113,77	112,87	111,60	105,19	4,765	4,797	4,844	4,924
37	111,00	96,1288	116,77	115,87	114,60	108,18	4,765	4,797	4,845	4,924
38	114,00	98,7269	119,77	118,87	117,60	111,18	4,765	4,797	4,845	4,925
39	117,00	101,3250	122,77	121,87	120,60	114,17	4,766	4,798	4,846	4,926
40	120,00	103,9230	125,77	124,87	123,60	117,17	4,766	4,798	4,846	4,927
41	123,00	106,5211	128,77	127,87	126,60	120,16	4,766	4,798	4,847	4,928
42	126,00	109,1192	131,78	130,88	129,60	123,16	4,766	4,799	4,847	4,929
43	129,00	111,7173	134,78	133,88	132,60	126,15	4,766	4,799	4,848	4,930
44	132,00	114,3154	137,78	136,88	135,60	129,15	4,767	4,799	4,848	4,930
45	135,00	116,9134	140,78	139,88	138,60	132,15	4,767	4,800	4,849	4,931
46	138,00	119,5115	143,78	142,88	141,60	135,14	4,767	4,800	4,849	4,932
47	141,00	122,1096	146,78	145,88	144,60	138,14	4,767	4,800	4,850	4,933
48	144,00	124,7077	149,78	148,88	147,60	141,14	4,767	4,801	4,850	4,934
49	147,00	127,3057	152,79	151,89	150,60	144,14	4,768	4,801	4,851	4,934
50	150,00	129,9038	155,79	154,89	153,60	147,13	4,768	4,801	4,851	4,935
51	153,00	132,5019	158,79	157,89	156,60	150,13	4,768	4,802	4,852	4,936
52	156,00	135,1000	161,79	160,89	159,60	153,13	4,768	4,802	4,852	4,937
53	159,00	137,6980	164,79	163,89	162,60	156,13	4,768	4,802	4,853	4,937
54	162,00	140,2961	167,79	166,89	165,60	159,12	4,769	4,802	4,853	4,938
55	165,00	142,8942	170,79	169,89	168,60	162,12	4,769	4,803	4,854	4,939
56	168,00	145,4923	173,79	172,89	171,60	165,12	4,769	4,803	4,854	4,940
57	171,00	148,0903	176,80	175,90	174,60	168,12	4,769	4,803	4,855	4,940
58	174,00	150,6884	179,80	178,90	177,60	171,11	4,769	4,804	4,855	4,941
59	177,00	153,2865	182,80	181,90	180,60	174,11	4,769	4,804	4,856	4,942
60	180,00	155,8846	185,80	184,90	183,60	177,11	4,770	4,804	4,856	4,942
61	183,00	158,4826	188,80	187,90	186,60	180,11	4,770	4,804	4,856	4,943
62	186,00	161,0807	191,80	190,90	189,60	183,11	4,770	4,805	4,857	4,944
63	189,00	163,6788	194,80	193,90	192,60	186,10	4,770	4,805	4,857	4,944
64	192,00	166,2769	197,80	196,90	195,60	189,10	4,770	4,805	4,858	4,945
65	195,00	168,8750	200,80	199,90	198,60	192,10	4,770	4,805	4,858	4,946
66	198,00	171,4730	203,81	202,91	201,60	195,10	4,771	4,806	4,858	4,946
67	201,00	174,0711	206,81	205,91	204,60	198,10	4,771	4,806	4,859	4,947
68	204,00	176,6692	209,81	208,91	207,60	201,10	4,771	4,806	4,859	4,948
69	207,00	179,2673	212,81	211,91	210,60	204,10	4,771	4,806	4,860	4,948
70	210,00	181,8653	215,81	214,91	213,60	207,09	4,771	4,807	4,860	4,949
71	213,00	184,4634	218,81	217,91	216,60	210,09	4,771	4,807	4,860	4,949
72	216,00	187,0615	221,81	220,91	219,60	213,09	4,772	4,807	4,861	4,950
73	219,00	189,6596	224,81	223,91	222,60	216,09	4,772	4,807	4,861	4,951
74	222,00	192,2576	227,81	226,91	225,60	219,09	4,772	4,808	4,862	4,951
75	225,00	194,8557	230,82	229,92	228,60	222,09	4,772	4,808	4,862	4,952
76	228,00	197,4538	233,82	232,92	231,60	225,09	4,772	4,808	4,862	4,953
77	231,00	200,0519	236,82	235,92	234,60	228,09	4,772	4,808	4,863	4,953
78	234,00	202,6499	239,82	238,92	237,60	231,08	4,772	4,809	4,863	4,954
79	237,00	205,2480	242,82	241,92	240,60	234,08	4,773	4,809	4,863	4,954
80	240,00	207,8461	245,82	244,92	243,60	237,08	4,773	4,809	4,864	4,955
81	243,00	210,4442	248,82	247,92	246,60	240,08	4,773	4,809	4,864	4,956
82	246,00	213,0422	251,82	250,92	249,60	243,08	4,773	4,810	4,865	4,956
83	249,00	215,6403	254,82	253,92	252,60	246,08	4,773	4,810	4,865	4,957
84	252,00	218,2384	257,82	256,92	255,60	249,08	4,773	4,810	4,865	4,957
85	255,00	220,8365	260,83	259,93	258,60	252,08	4,773	4,810	4,866	4,958
86	258,00	223,4346	263,83	262,93	261,60	255,08	4,774	4,811	4,866	4,958
87	261,00	226,0326	266,83	265,93	264,60	258,08	4,774	4,811	4,866	4,959
88	264,00	228,6307	269,83	268,93	267,60	261,07	4,774	4,811	4,867	4,959
89	267,00	231,2288	272,83	271,93	270,60	264,07	4,774	4,811	4,867	4,960
90	270,00	233,8269	275,83	274,93	273,60	267,07	4,774	4,811	4,867	4,961
91	273,00	236,4249	278,83	277,93	276,60	270,07	4,774	4,812	4,868	4,961
92	276,00	239,0230	281,83	280,93	279,60	273,07	4,774	4,812	4,868	4,962
93	279,00	241,6211	284,83	283,93	282,60	276,07	4,775	4,812	4,868	4,962
94	282,00	244,2192	287,83	286,93	285,60	279,07	4,775	4,812	4,869	4,963
95	285,00	246,8172	290,84	289,94	288,60	282,07	4,775	4,813	4,869	4,963
96	288,00	249,4153	293,84	292,94	291,60	285,07	4,775	4,813	4,869	4,964
97	291,00	252,0134	296,84	295,94	294,60	288,07	4,775	4,813	4,870	4,964
98	294,00	254,6115	299,84	298,94	297,60	291,07	4,775	4,813	4,870	4,965
99	297,00	257,2095	302,84	301,94	300,60	294,07	4,775	4,813	4,870	4,965
100	300,00	259,8076	305,84	304,94	303,60	297,07	4,775	4,814	4,871	4,966

Table 34 — Geometry external spline, $\alpha = 30^\circ$, $m = 3$, flat and fillet root, $S_{v \max} = 4,712$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{ie \min}$ Fillet root	$D_{ie \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	18,00	15,5885	21,00	15,69	12,31	13,21	4,670	4,644	4,606	4,543
7	21,00	18,1865	24,00	18,48	15,30	16,20	4,669	4,643	4,605	4,540
8	24,00	20,7846	27,00	21,33	18,30	19,20	4,668	4,642	4,603	4,538
9	27,00	23,3827	30,00	24,22	21,29	22,19	4,668	4,641	4,602	4,535
10	30,00	25,9808	33,00	27,13	24,29	25,19	4,667	4,641	4,600	4,533
11	33,00	28,5788	36,00	30,05	27,29	28,19	4,667	4,640	4,599	4,531
12	36,00	31,1769	39,00	32,99	30,28	31,18	4,666	4,639	4,598	4,530
13	39,00	33,7750	42,00	35,94	33,28	34,18	4,666	4,638	4,597	4,528
14	42,00	36,3731	45,00	38,90	36,28	37,18	4,666	4,638	4,596	4,526
15	45,00	38,9711	48,00	41,87	39,28	40,18	4,665	4,637	4,595	4,525
16	48,00	41,5692	51,00	44,84	42,27	43,17	4,665	4,636	4,594	4,523
17	51,00	44,1673	54,00	47,81	45,27	46,17	4,664	4,636	4,593	4,522
18	54,00	46,7654	57,00	50,78	48,27	49,17	4,664	4,635	4,592	4,520
19	57,00	49,3634	60,00	53,76	51,27	52,17	4,664	4,635	4,591	4,519
20	60,00	51,9615	63,00	56,74	54,26	55,16	4,663	4,634	4,591	4,518
21	63,00	54,5596	66,00	59,73	57,26	58,16	4,663	4,634	4,590	4,516
22	66,00	57,1577	69,00	62,71	60,26	61,16	4,663	4,633	4,589	4,515
23	69,00	59,7558	72,00	65,70	63,26	64,16	4,662	4,633	4,588	4,514
24	72,00	62,3538	75,00	68,68	66,25	67,15	4,662	4,632	4,587	4,513
25	75,00	64,9519	78,00	71,67	69,25	70,15	4,662	4,632	4,587	4,512
26	78,00	67,5500	81,00	74,66	72,25	73,15	4,662	4,631	4,586	4,511
27	81,00	70,1481	84,00	77,65	75,25	76,15	4,661	4,631	4,585	4,509
28	84,00	72,7461	87,00	80,64	78,25	79,15	4,661	4,631	4,585	4,508
29	87,00	75,3442	90,00	83,63	81,25	82,15	4,661	4,630	4,584	4,507
30	90,00	77,9423	93,00	86,62	84,24	85,14	4,661	4,630	4,583	4,506
31	93,00	80,5404	96,00	89,62	87,24	88,14	4,660	4,629	4,583	4,505
32	96,00	83,1384	99,00	92,61	90,24	91,14	4,660	4,629	4,582	4,504
33	99,00	85,7365	102,00	95,60	93,24	94,14	4,660	4,629	4,582	4,503
34	102,00	88,3346	105,00	98,60	96,24	97,14	4,660	4,628	4,581	4,502
35	105,00	90,9327	108,00	101,59	99,24	100,14	4,659	4,628	4,580	4,501
36	108,00	93,5307	111,00	104,59	102,23	103,13	4,659	4,627	4,580	4,500
37	111,00	96,1288	114,00	107,58	105,23	106,13	4,659	4,627	4,579	4,500
38	114,00	98,7269	117,00	110,58	108,23	109,13	4,659	4,627	4,579	4,499
39	117,00	101,3250	120,00	113,57	111,23	112,13	4,658	4,626	4,578	4,498
40	120,00	103,9230	123,00	116,57	114,23	115,13	4,658	4,626	4,578	4,497
41	123,00	106,5211	126,00	119,56	117,23	118,13	4,658	4,626	4,577	4,496
42	126,00	109,1192	129,00	122,56	120,22	121,12	4,658	4,625	4,577	4,495
43	129,00	111,7173	132,00	125,55	123,22	124,12	4,658	4,625	4,576	4,494
44	132,00	114,3154	135,00	128,55	126,22	127,12	4,657	4,625	4,576	4,494
45	135,00	116,9134	138,00	131,55	129,22	130,12	4,657	4,624	4,575	4,493
46	138,00	119,5115	141,00	134,54	132,22	133,12	4,657	4,624	4,575	4,492
47	141,00	122,1096	144,00	137,54	135,22	136,12	4,657	4,624	4,574	4,491
48	144,00	124,7077	147,00	140,54	138,22	139,12	4,657	4,623	4,574	4,490
49	147,00	127,3057	150,00	143,54	141,21	142,11	4,656	4,623	4,573	4,490
50	150,00	129,9038	153,00	146,53	144,21	145,11	4,656	4,623	4,573	4,489
51	153,00	132,5019	156,00	149,53	147,21	148,11	4,656	4,622	4,572	4,488
52	156,00	135,1000	159,00	152,53	150,21	151,11	4,656	4,622	4,572	4,487
53	159,00	137,6980	162,00	155,53	153,21	154,11	4,656	4,622	4,571	4,487
54	162,00	140,2961	165,00	158,52	156,21	157,11	4,655	4,622	4,571	4,486
55	165,00	142,8942	168,00	161,52	159,21	160,11	4,655	4,621	4,570	4,485
56	168,00	145,4923	171,00	164,52	162,21	163,11	4,655	4,621	4,570	4,484
57	171,00	148,0903	174,00	167,52	165,20	166,10	4,655	4,621	4,569	4,484
58	174,00	150,6884	177,00	170,51	168,20	169,10	4,655	4,620	4,569	4,483
59	177,00	153,2865	180,00	173,51	171,20	172,10	4,655	4,620	4,568	4,482
60	180,00	155,8846	183,00	176,51	174,20	175,10	4,654	4,620	4,568	4,482
61	183,00	158,4826	186,00	179,51	177,20	178,10	4,654	4,620	4,568	4,481
62	186,00	161,0807	189,00	182,51	180,20	181,10	4,654	4,619	4,567	4,480
63	189,00	163,6788	192,00	185,50	183,20	184,10	4,654	4,619	4,567	4,480
64	192,00	166,2769	195,00	188,50	186,20	187,10	4,654	4,619	4,566	4,479
65	195,00	168,8750	198,00	191,50	189,20	190,10	4,654	4,619	4,566	4,478
66	198,00	171,4730	201,00	194,50	192,19	193,09	4,653	4,618	4,566	4,478
67	201,00	174,0711	204,00	197,50	195,19	196,09	4,653	4,618	4,565	4,477
68	204,00	176,6692	207,00	200,50	198,19	199,09	4,653	4,618	4,565	4,476
69	207,00	179,2673	210,00	203,50	201,19	202,09	4,653	4,618	4,564	4,476
70	210,00	181,8653	213,00	206,49	204,19	205,09	4,653	4,617	4,564	4,475
71	213,00	184,4634	216,00	209,49	207,19	208,09	4,653	4,617	4,564	4,475
72	216,00	187,0615	219,00	212,49	210,19	211,09	4,652	4,617	4,563	4,474
73	219,00	189,6596	222,00	215,49	213,19	214,09	4,652	4,617	4,563	4,473
74	222,00	192,2577	225,00	218,49	216,19	217,09	4,652	4,616	4,562	4,473
75	225,00	194,8557	228,00	221,49	219,18	220,08	4,652	4,616	4,562	4,472
76	228,00	197,4538	231,00	224,49	222,18	223,08	4,652	4,616	4,562	4,471
77	231,00	200,0519	234,00	227,49	225,18	226,08	4,652	4,616	4,561	4,471
78	234,00	202,6499	237,00	230,48	228,18	229,08	4,652	4,615	4,561	4,470
79	237,00	205,2480	240,00	233,48	231,18	232,08	4,651	4,615	4,561	4,470
80	240,00	207,8461	243,00	236,48	234,18	235,08	4,651	4,615	4,560	4,469
81	243,00	210,4442	246,00	239,48	237,18	238,08	4,651	4,615	4,560	4,468
82	246,00	213,0422	249,00	242,48	240,18	241,08	4,651	4,614	4,559	4,468
83	249,00	215,6403	252,00	245,48	243,18	244,08	4,651	4,614	4,559	4,467
84	252,00	218,2384	255,00	248,48	246,18	247,08	4,651	4,614	4,559	4,467
85	255,00	220,8365	258,00	251,48	249,17	250,07	4,651	4,614	4,558	4,466
86	258,00	223,4346	261,00	254,48	252,17	253,07	4,650	4,613	4,558	4,466
87	261,00	226,0326	264,00	257,48	255,17	256,07	4,650	4,613	4,558	4,465
88	264,00	228,6307	267,00	260,47	258,17	259,07	4,650	4,613	4,557	4,465
89	267,00	231,2288	270,00	263,47	261,17	262,07	4,650	4,613	4,557	4,464
90	270,00	233,8269	273,00	266,47	264,17	265,07	4,650	4,613	4,557	4,463
91	273,00	236,4249	276,00	269,47	267,17	268,07	4,650	4,612	4,556	4,463
92	276,00	239,0230	279,00	272,47	270,17	271,07	4,650	4,612	4,556	4,462
93	279,00	241,6211	282,00	275,47	273,17	274,07	4,649	4,612	4,556	4,462
94	282,00	244,2192	285,00	278,47	276,17	277,07	4,649	4,612	4,555	4,461
95	285,00	246,8172	288,00	281,47	279,16	280,06	4,649	4,611	4,555	4,461
96	288,00	249,4153	291,00	284,47	282,16	283,06	4,649	4,611	4,555	4,460
97	291,00	252,0134	294,00	287,47	285,16	286,06	4,649	4,611	4,554	4,460
98	294,00	254,6115	297,00	290,47	288,16	289,06	4,649	4,611	4,554	4,459
99	297,00	257,2096	300,00	293,47	291,16	292,06	4,649	4,611	4,554	4,459
100	300,00	259,8076	303,00	296,47	294,16	295,06	4,649	4,610	4,553	4,458

Table 35 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 3$, flat or fillet root, $E_{v\min} = 4,712$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	5,00	16,818	16,894	16,839	16,965	16,871	17,068	16,919	17,232	2,440
9	5,00	19,517	19,584	19,536	19,648	19,564	19,742	19,608	19,893	2,245
10	5,30	21,720	21,805	21,745	21,885	21,781	22,000	21,837	22,184	2,655
11	5,30	24,523	24,596	24,545	24,667	24,577	24,771	24,626	24,939	2,426
12	5,30	27,901	27,969	27,922	28,037	27,952	28,136	27,999	28,297	2,324
13	5,30	30,688	30,752	30,708	30,817	30,737	30,912	30,782	31,067	2,220
14	5,30	33,991	34,054	34,011	34,117	34,040	34,210	34,084	34,363	2,172
15	5,30	36,791	36,851	36,810	36,912	36,838	37,003	36,882	37,153	2,111
16	5,30	40,048	40,107	40,067	40,168	40,095	40,258	40,138	40,407	2,083
17	5,30	42,862	42,920	42,882	42,980	42,909	43,069	42,952	43,216	2,042
18	5,30	46,087	46,144	46,106	46,203	46,134	46,292	46,177	46,438	2,024
19	5,30	48,916	48,972	48,936	49,031	48,963	49,119	49,006	49,265	1,995
20	5,30	52,116	52,171	52,135	52,230	52,163	52,318	52,206	52,463	1,983
21	5,30	54,958	55,013	54,978	55,072	55,006	55,159	55,049	55,304	1,960
22	5,30	58,138	58,192	58,158	58,251	58,185	58,338	58,229	58,483	1,951
23	5,30	60,992	61,046	61,012	61,105	61,040	61,192	61,084	61,336	1,934
24	5,30	64,156	64,209	64,176	64,268	64,204	64,355	64,248	64,500	1,927
25	5,30	67,021	67,073	67,040	67,132	67,069	67,219	67,113	67,363	1,913
26	5,30	70,171	70,223	70,191	70,282	70,219	70,369	70,263	70,514	1,908
27	5,30	73,044	73,096	73,064	73,155	73,093	73,242	73,137	73,386	1,896
28	5,30	76,183	76,235	76,203	76,293	76,232	76,381	76,277	76,526	1,892
29	5,30	79,064	79,116	79,085	79,174	79,114	79,262	79,159	79,407	1,882
30	5,30	82,193	82,245	82,214	82,303	82,243	82,391	82,288	82,536	1,878
31	5,30	85,082	85,133	85,103	85,192	85,132	85,279	85,178	85,425	1,870
32	5,30	88,203	88,253	88,223	88,312	88,253	88,400	88,299	88,546	1,867
33	5,30	91,097	91,148	91,118	91,207	91,148	91,295	91,194	91,441	1,860
34	5,60	93,251	93,302	93,272	93,363	93,303	93,453	93,351	93,603	1,903
35	5,60	96,154	96,205	96,176	96,266	96,207	96,356	96,254	96,506	1,895
36	5,60	99,262	99,313	99,284	99,374	99,315	99,464	99,363	99,615	1,891
37	5,60	102,170	102,221	102,192	102,281	102,223	102,372	102,271	102,522	1,884
38	5,60	105,272	105,323	105,294	105,383	105,326	105,474	105,374	105,625	1,880
39	5,60	108,184	108,235	108,206	108,295	108,238	108,386	108,287	108,537	1,874
40	5,60	111,281	111,331	111,303	111,392	111,335	111,483	111,384	111,634	1,871
41	5,60	114,197	114,247	114,219	114,308	114,251	114,399	114,301	114,550	1,866
42	5,60	117,289	117,339	117,311	117,400	117,344	117,491	117,393	117,643	1,863
43	5,60	120,208	120,258	120,231	120,319	120,264	120,411	120,314	120,563	1,858
44	5,60	123,296	123,345	123,319	123,407	123,352	123,498	123,402	123,651	1,856
45	5,60	126,219	126,268	126,242	126,330	126,275	126,421	126,325	126,574	1,851
46	5,60	129,302	129,352	129,326	129,413	129,359	129,505	129,410	129,658	1,849
47	5,60	132,228	132,277	132,252	132,339	132,285	132,431	132,336	132,584	1,845
48	5,60	135,308	135,357	135,332	135,419	135,365	135,511	135,417	135,665	1,844
49	5,60	138,237	138,286	138,261	138,348	138,295	138,440	138,346	138,594	1,840
50	5,60	141,314	141,362	141,338	141,424	141,372	141,517	141,423	141,671	1,838
51	5,60	144,245	144,294	144,269	144,356	144,303	144,449	144,356	144,603	1,835
52	5,60	147,319	147,367	147,343	147,429	147,377	147,523	147,430	147,677	1,833
53	5,60	150,253	150,301	150,277	150,363	150,312	150,457	150,364	150,611	1,830
54	5,60	153,324	153,372	153,348	153,434	153,383	153,528	153,436	153,683	1,829
55	5,60	156,280	156,308	156,285	156,370	156,319	156,464	156,372	156,619	1,826
56	5,60	159,328	159,376	159,353	159,439	159,388	159,532	159,441	159,688	1,825
57	5,60	162,267	162,314	162,291	162,377	162,326	162,471	162,380	162,627	1,822
58	5,60	165,332	165,380	165,357	165,443	165,393	165,537	165,447	165,693	1,821
59	5,60	168,273	168,320	168,298	168,383	168,333	168,477	168,387	168,634	1,819
60	5,60	171,336	171,383	171,361	171,446	171,397	171,541	171,452	171,698	1,818
61	5,60	174,278	174,325	174,304	174,389	174,340	174,483	174,394	174,641	1,816
62	5,60	177,340	177,387	177,365	177,450	177,401	177,545	177,456	177,703	1,815
63	5,60	180,284	180,331	180,309	180,394	180,346	180,489	180,401	180,647	1,813
64	5,60	183,343	183,390	183,369	183,454	183,405	183,549	183,461	183,707	1,812
65	5,60	186,289	186,335	186,315	186,399	186,351	186,495	186,407	186,653	1,810
66	5,60	189,346	189,393	189,372	189,457	189,409	189,552	189,465	189,712	1,809
67	5,60	192,294	192,340	192,320	192,404	192,357	192,500	192,413	192,659	1,807
68	5,60	195,349	195,396	195,376	195,460	195,413	195,556	195,470	195,716	1,806
69	5,60	198,298	198,344	198,325	198,408	198,362	198,505	198,419	198,665	1,805
70	5,60	201,352	201,398	201,379	201,463	201,416	201,559	201,474	201,720	1,804
71	5,60	204,302	204,348	204,329	204,413	204,367	204,509	204,424	204,670	1,802
72	5,60	207,355	207,401	207,382	207,466	207,420	207,562	207,478	207,723	1,802
73	5,60	210,306	210,352	210,333	210,417	210,371	210,514	210,430	210,675	1,800
74	5,60	213,358	213,403	213,385	213,468	213,423	213,565	213,481	213,727	1,800
75	5,60	216,310	216,356	216,338	216,421	216,376	216,518	216,435	216,680	1,798
76	5,60	219,360	219,406	219,388	219,471	219,426	219,568	219,485	219,731	1,798
77	5,60	222,314	222,359	222,342	222,425	222,380	222,522	222,439	222,685	1,796
78	5,60	225,363	225,408	225,390	225,473	225,429	225,571	225,489	225,734	1,796
79	5,60	228,318	228,363	228,345	228,428	228,384	228,526	228,444	228,690	1,794
80	5,60	231,365	231,410	231,393	231,476	231,432	231,574	231,492	231,738	1,794
81	5,60	234,321	234,366	234,349	234,432	234,388	234,530	234,448	234,694	1,793
82	5,60	237,367	237,412	237,395	237,478	237,435	237,577	237,495	237,741	1,792
83	5,60	240,324	240,369	240,352	240,435	240,392	240,534	240,453	240,698	1,791
84	5,60	243,369	243,414	243,398	243,480	243,438	243,579	243,498	243,744	1,791
85	5,60	246,327	246,372	246,356	246,438	246,396	246,537	246,457	246,702	1,789
86	5,60	249,371	249,416	249,400	249,482	249,440	249,582	249,502	249,747	1,789
87	5,60	252,330	252,375	252,359	252,441	252,399	252,541	252,461	252,706	1,788
88	5,60	255,373	255,418	255,402	255,484	255,443	255,584	255,505	255,750	1,788
89	5,60	258,333	258,377	258,362	258,444	258,403	258,544	258,465	258,710	1,787
90	5,60	261,375	261,419	261,404	261,486	261,445	261,586	261,508	261,753	1,786

Table 36 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 3$, flat or fillet root, $S_{v \max} = 4,712$

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	6,70	28,851	28,884	28,820	28,875	28,773	28,862	28,696	28,841	1,228
7	6,70	31,296	31,329	31,265	31,320	31,218	31,307	31,139	31,286	1,227
8	6,30	33,997	34,033	33,963	34,023	33,912	34,008	33,825	33,985	1,321
9	6,30	36,576	36,611	36,541	36,601	36,489	36,586	36,401	36,563	1,324
10	6,30	40,082	40,119	40,046	40,108	39,991	40,092	39,900	40,067	1,366
11	6,00	41,965	42,003	41,928	41,992	41,871	41,975	41,777	41,949	1,400
12	6,00	45,359	45,398	45,321	45,386	45,262	45,369	45,165	45,342	1,431
13	6,00	48,072	48,111	48,032	48,099	47,973	48,081	47,874	48,054	1,435
14	6,00	51,400	51,439	51,359	51,427	51,299	51,409	51,197	51,380	1,459
15	6,00	54,152	54,191	54,111	54,179	54,050	54,160	53,947	54,131	1,463
16	6,00	57,432	57,473	57,391	57,459	57,328	57,440	57,223	57,411	1,482
17	6,00	60,214	60,254	60,172	60,241	60,109	60,222	60,003	60,191	1,486
18	6,00	63,459	63,500	63,416	63,486	63,352	63,466	63,244	63,435	1,502
19	6,00	66,264	66,305	66,221	66,291	66,156	66,271	66,047	66,239	1,505
20	6,00	69,481	69,522	69,437	69,508	69,371	69,487	69,261	69,455	1,518
21	6,00	72,305	72,346	72,261	72,332	72,194	72,311	72,083	72,278	1,522
22	6,00	75,500	75,542	75,455	75,527	75,388	75,505	75,275	75,472	1,533
23	6,00	78,339	78,381	78,294	78,366	78,226	78,344	78,112	78,310	1,536
24	6,00	81,516	81,558	81,470	81,543	81,401	81,521	81,286	81,486	1,545
25	6,00	84,369	84,410	84,322	84,395	84,253	84,372	84,137	84,338	1,548
26	6,00	87,530	87,572	87,484	87,556	87,413	87,534	87,296	87,498	1,556
27	6,00	90,394	90,436	90,347	90,419	90,276	90,396	90,158	90,361	1,559
28	6,00	93,543	93,585	93,495	93,568	93,424	93,545	93,304	93,508	1,566
29	6,00	96,415	96,457	96,367	96,441	96,296	96,417	96,175	96,380	1,569
30	6,00	99,553	99,596	99,505	99,579	99,432	99,555	99,311	99,517	1,575
31	6,00	102,434	102,477	102,386	102,460	102,313	102,435	102,191	102,397	1,577
32	6,00	105,563	105,605	105,514	105,588	105,440	105,563	105,317	105,525	1,583
33	5,60	107,317	107,360	107,267	107,342	107,191	107,317	107,065	107,278	1,613
34	5,60	110,435	110,478	110,384	110,460	110,308	110,434	110,181	110,395	1,618
35	5,60	113,329	113,372	113,278	113,354	113,202	113,328	113,074	113,288	1,619
36	5,60	116,440	116,483	116,389	116,464	116,312	116,438	116,183	116,398	1,623
37	5,60	119,339	119,383	119,288	119,364	119,211	119,337	119,081	119,296	1,624
38	5,60	122,444	122,487	122,392	122,468	122,314	122,442	122,184	122,400	1,628
39	5,60	125,349	125,392	125,297	125,373	125,219	125,346	125,088	125,304	1,629
40	5,60	128,448	128,491	128,396	128,472	128,317	128,444	128,185	128,402	1,633
41	5,60	131,357	131,400	131,305	131,381	131,226	131,353	131,094	131,311	1,634
42	5,60	134,451	134,495	134,398	134,475	134,319	134,447	134,186	134,404	1,637
43	5,60	137,365	137,408	137,312	137,388	137,232	137,360	137,098	137,317	1,638
44	5,60	140,455	140,498	140,401	140,478	140,321	140,449	140,186	140,405	1,641
45	5,60	143,372	143,415	143,318	143,395	143,238	143,366	143,103	143,322	1,642
46	5,60	146,457	146,500	146,403	146,480	146,322	146,451	146,187	146,406	1,644
47	5,60	149,378	149,421	149,324	149,401	149,243	149,372	149,107	149,327	1,645
48	5,60	152,460	152,503	152,405	152,482	152,324	152,453	152,187	152,407	1,648
49	5,60	155,384	155,427	155,329	155,406	155,247	155,377	155,110	155,331	1,648
50	5,60	158,462	158,505	158,407	158,484	158,325	158,454	158,187	158,408	1,651
51	5,60	161,390	161,432	161,334	161,411	161,251	161,381	161,113	161,335	1,651
52	5,60	164,465	164,507	164,409	164,486	164,326	164,456	164,187	164,409	1,654
53	5,60	167,394	167,437	167,339	167,416	167,255	167,385	167,115	167,338	1,654
54	5,60	170,466	170,509	170,411	170,488	170,327	170,457	170,186	170,409	1,656
55	5,60	173,399	173,442	173,343	173,420	173,259	173,389	173,118	173,341	1,657
56	5,60	176,468	176,511	176,412	176,489	176,327	176,458	176,186	176,409	1,659
57	5,60	179,403	179,446	179,347	179,424	179,262	179,392	179,120	179,344	1,659
58	5,60	182,470	182,513	182,413	182,490	182,328	182,458	182,185	182,410	1,661
59	5,60	185,407	185,450	185,350	185,427	185,264	185,395	185,122	185,346	1,662
60	5,60	188,472	188,515	188,414	188,491	188,328	188,459	188,185	188,410	1,663
61	5,60	191,411	191,453	191,353	191,430	191,267	191,398	191,123	191,348	1,664
62	5,60	194,473	194,515	194,415	194,492	194,329	194,460	194,184	194,410	1,665
63	5,60	197,414	197,457	197,356	197,433	197,269	197,400	197,124	197,350	1,666
64	5,60	200,474	200,517	200,416	200,493	200,329	200,460	200,184	200,409	1,667
65	5,60	203,417	203,460	203,359	203,436	203,271	203,401	203,126	203,352	1,668
66	5,60	206,476	206,518	206,417	206,494	206,329	206,461	206,183	206,409	1,669
67	5,60	209,420	209,462	209,361	209,439	209,273	209,405	209,126	209,353	1,670
68	5,60	212,477	212,519	212,418	212,495	212,329	212,461	212,182	212,409	1,671
69	5,60	215,423	215,465	215,364	215,441	215,275	215,407	215,127	215,354	1,671
70	5,60	218,478	218,520	218,419	218,496	218,330	218,461	218,181	218,408	1,673
71	5,60	221,425	221,468	221,366	221,443	221,277	221,408	221,128	221,355	1,673
72	5,60	224,479	224,521	224,419	224,496	224,330	224,461	224,180	224,408	1,674
73	5,60	227,428	227,470	227,368	227,445	227,278	227,410	227,129	227,356	1,674
74	5,60	230,480	230,522	230,420	230,497	230,330	230,461	230,179	230,408	1,676
75	5,60	233,430	233,472	233,370	233,447	233,280	233,411	233,129	233,357	1,676
76	5,60	236,480	236,522	236,420	236,497	236,330	236,461	236,178	236,407	1,677
77	5,60	239,432	239,474	239,372	239,449	239,281	239,413	239,129	239,358	1,677
78	5,60	242,481	242,523	242,421	242,498	242,330	242,461	242,178	242,406	1,678
79	5,60	245,434	245,476	245,373	245,450	245,282	245,414	245,130	245,359	1,679
80	5,60	248,482	248,524	248,421	248,498	248,329	248,461	248,177	248,406	1,680
81	5,60	251,436	251,478	251,375	251,452	251,283	251,415	251,130	251,359	1,680
82	5,60	254,483	254,524	254,421	254,498	254,329	254,461	254,176	254,405	1,681
83	5,60	257,438	257,480	257,376	257,453	257,284	257,416	257,130	257,360	1,681
84	5,60	260,483	260,525	260,422	260,498	260,329	260,461	260,174	260,404	1,682
85	5,60	263,440	263,481	263,378	263,455	263,285	263,417	263,130	263,360	1,682
86	5,60	266,484	266,525	266,422	266,499	266,329	266,461	266,173	266,404	1,683
87	5,60	269,441	269,483	269,379	2					

5.10 30° pressure angle, module 4

Table 37 — Geometry internal spline, $\alpha = 30^\circ$, $m = 4$, flat and fillet root, $E_{v \min} = 6,283$

z	D	D_b	$D_{ei \max}$ Fillet root	$D_{ei \max}$ Flat	$D_{ii \min}$	$D_{li \min}$	$E_{\max}$			
							4H	5H	6H	7H
6	24,00	20,7846	31,52	30,32	28,80	21,72	6,330	6,358	6,400	6,470
7	28,00	24,2487	35,53	34,33	32,80	25,44	6,330	6,359	6,402	6,473
8	32,00	27,7128	39,53	38,33	36,80	29,24	6,331	6,360	6,403	6,475
9	36,00	31,1769	43,54	42,34	40,80	33,09	6,332	6,361	6,405	6,478
10	40,00	34,6410	47,54	46,34	44,80	36,97	6,332	6,362	6,406	6,480
11	44,00	38,1051	51,54	50,34	48,80	40,87	6,333	6,363	6,407	6,482
12	48,00	41,5692	55,55	54,35	52,80	44,79	6,333	6,363	6,409	6,484
13	52,00	45,0333	59,55	58,35	56,80	48,73	6,334	6,364	6,410	6,486
14	56,00	48,4974	63,56	62,36	60,80	52,67	6,334	6,365	6,411	6,488
15	60,00	51,9615	67,56	66,36	64,80	56,62	6,335	6,366	6,412	6,490
16	64,00	55,4256	71,56	70,36	68,80	60,58	6,335	6,366	6,413	6,491
17	68,00	58,8897	75,56	74,36	72,80	64,54	6,336	6,367	6,414	6,493
18	72,00	62,3538	79,57	78,37	76,80	68,51	6,336	6,368	6,415	6,495
19	76,00	65,8179	83,57	82,37	80,80	72,48	6,336	6,368	6,416	6,496
20	80,00	69,2820	87,57	86,37	84,80	76,46	6,337	6,369	6,417	6,498
21	84,00	72,7461	91,57	90,37	88,80	80,44	6,337	6,369	6,418	6,499
22	88,00	76,2102	95,58	94,38	92,80	84,41	6,337	6,370	6,419	6,500
23	92,00	79,6743	99,58	98,38	96,80	88,40	6,338	6,371	6,420	6,502
24	96,00	83,1384	103,58	102,38	100,80	92,38	6,338	6,371	6,421	6,503
25	100,00	86,6025	107,58	106,38	104,80	96,36	6,338	6,372	6,421	6,504
26	104,00	90,0666	111,59	110,39	108,80	100,35	6,339	6,372	6,422	6,506
27	108,00	93,5307	115,59	114,39	112,80	104,33	6,339	6,373	6,423	6,507
28	112,00	96,9948	119,59	118,39	116,80	108,32	6,339	6,373	6,424	6,508
29	116,00	100,4589	123,59	122,39	120,80	112,31	6,340	6,374	6,424	6,509
30	120,00	103,9230	127,59	126,39	124,80	116,30	6,340	6,374	6,425	6,510
31	124,00	107,3872	131,60	130,40	128,80	120,29	6,340	6,374	6,426	6,512
32	128,00	110,8513	135,60	134,40	132,80	124,28	6,340	6,375	6,427	6,513
33	132,00	114,3154	139,60	138,40	136,80	128,27	6,341	6,375	6,427	6,514
34	136,00	117,7795	143,60	142,40	140,80	132,26	6,341	6,376	6,428	6,515
35	140,00	121,2436	147,60	146,40	144,80	136,26	6,341	6,376	6,429	6,516
36	144,00	124,7077	151,61	150,41	148,80	140,25	6,341	6,377	6,429	6,517
37	148,00	128,1718	155,61	154,41	152,80	144,24	6,342	6,377	6,430	6,518
38	152,00	131,6359	159,61	158,41	156,80	148,23	6,342	6,377	6,431	6,519
39	156,00	135,1000	163,61	162,41	160,80	152,23	6,342	6,378	6,431	6,520
40	160,00	138,5641	167,61	166,41	164,80	156,22	6,342	6,378	6,432	6,521
41	164,00	142,0282	171,61	170,41	168,80	160,22	6,343	6,379	6,432	6,522
42	168,00	145,4923	175,62	174,42	172,80	164,21	6,343	6,379	6,433	6,523
43	172,00	148,9564	179,62	178,42	176,80	168,21	6,343	6,379	6,434	6,524
44	176,00	152,4205	183,62	182,42	180,80	172,20	6,343	6,380	6,434	6,525
45	180,00	155,8846	187,62	186,42	184,80	176,20	6,344	6,380	6,435	6,526
46	184,00	159,3487	191,62	190,42	188,80	180,19	6,344	6,380	6,435	6,527
47	188,00	162,8128	195,62	194,42	192,80	184,19	6,344	6,381	6,436	6,527
48	192,00	166,2769	199,63	198,43	196,80	188,18	6,344	6,381	6,436	6,528
49	196,00	169,7410	203,63	202,43	200,80	192,18	6,345	6,382	6,437	6,529
50	200,00	173,2051	207,63	206,43	204,80	196,18	6,345	6,382	6,437	6,530
51	204,00	176,6692	211,63	210,43	208,80	200,17	6,345	6,382	6,438	6,531
52	208,00	180,1333	215,63	214,43	212,80	204,17	6,345	6,383	6,439	6,532
53	212,00	183,5974	219,63	218,43	216,80	208,17	6,345	6,383	6,439	6,533
54	216,00	187,0615	223,63	222,43	220,80	212,16	6,346	6,383	6,440	6,534
55	220,00	190,5256	227,64	226,44	224,80	216,16	6,346	6,384	6,440	6,534
56	224,00	193,9897	231,64	230,44	228,80	220,16	6,346	6,384	6,441	6,535
57	228,00	197,4538	235,64	234,44	232,80	224,15	6,346	6,384	6,441	6,536
58	232,00	200,9179	239,64	238,44	236,80	228,15	6,346	6,384	6,442	6,537
59	236,00	204,3820	243,64	242,44	240,80	232,15	6,347	6,385	6,442	6,538
60	240,00	207,8461	247,64	246,44	244,80	236,15	6,347	6,385	6,443	6,538
61	244,00	211,3102	251,64	250,44	248,80	240,14	6,347	6,385	6,443	6,539
62	248,00	214,7743	255,64	254,44	252,80	244,14	6,347	6,386	6,444	6,540
63	252,00	218,2384	259,65	258,45	256,80	248,14	6,347	6,386	6,444	6,541
64	256,00	221,7025	263,65	262,45	260,80	252,14	6,348	6,386	6,444	6,541
65	260,00	225,1666	267,65	266,45	264,80	256,14	6,348	6,387	6,445	6,542
66	264,00	228,6307	271,65	270,45	268,80	260,13	6,348	6,387	6,445	6,543
67	268,00	232,0948	275,65	274,45	272,80	264,13	6,348	6,387	6,446	6,544
68	272,00	235,5589	279,65	278,45	276,80	268,13	6,348	6,388	6,446	6,544
69	276,00	239,0230	283,65	282,45	280,80	272,13	6,349	6,388	6,447	6,545
70	280,00	242,4871	287,66	286,46	284,80	276,13	6,349	6,388	6,447	6,546
71	284,00	245,9512	291,66	290,46	288,80	280,12	6,349	6,388	6,448	6,547
72	288,00	249,4153	295,66	294,46	292,80	284,12	6,349	6,389	6,448	6,547
73	292,00	252,8794	299,66	298,46	296,80	288,12	6,349	6,389	6,449	6,548
74	296,00	256,3435	303,66	302,46	300,80	292,12	6,349	6,389	6,449	6,549
75	300,00	259,8076	307,66	306,46	304,80	296,12	6,350	6,390	6,449	6,549
76	304,00	263,2717	311,66	310,46	308,80	300,12	6,350	6,390	6,450	6,550
77	308,00	266,7358	315,66	314,46	312,80	304,11	6,350	6,390	6,450	6,551
78	312,00	270,1999	319,66	318,46	316,80	308,11	6,350	6,390	6,451	6,551
79	316,00	273,6640	323,67	322,47	320,80	312,11	6,350	6,391	6,451	6,552
80	320,00	277,1281	327,67	326,47	324,80	316,11	6,350	6,391	6,452	6,553
81	324,00	280,5922	331,67	330,47	328,80	320,11	6,351	6,391	6,452	6,553
82	328,00	284,0563	335,67	334,47	332,80	324,11	6,351	6,391	6,452	6,554
83	332,00	287,5204	339,67	338,47	336,80	328,11	6,351	6,392	6,453	6,555
84	336,00	290,9845	343,67	342,47	340,80	332,10	6,351	6,392	6,453	6,555
85	340,00	294,4486	347,67	346,47	344,80	336,10	6,351	6,392	6,454	6,556
86	344,00	297,9127	351,67	350,47	348,80	340,10	6,351	6,392	6,454	6,557
87	348,00	301,3768	355,68	354,48	352,80	344,10	6,352	6,393	6,454	6,557
88	352,00	304,8409	359,68	358,48	356,80	348,10	6,352	6,393	6,455	6,558
89	356,00	308,3050	363,68	362,48	360,80	352,10	6,352	6,393	6,455	6,559
90	360,00	311,7691	367,68	366,48	364,80	356,10	6,352	6,394	6,456	6,559
91	364,00	315,2332	371,68	370,48	368,80	360,10	6,352	6,394	6,456	6,560
92	368,00	318,6973	375,68	374,48	372,80	364,10	6,352	6,394	6,456	6,561
93	372,00	322,1615	379,68	378,48	376,80	368,09	6,353	6,394	6,457	6,561
94	376,00	325,6256	383,68	382,48	380,80	372,09	6,353	6,395	6,457	6,562
95	380,00	329,0897	387,68	386,48	384,80	376,09	6,353	6,395	6,458	6,562
96	384,00	332,5538	391,69	390,49	388,80	380,09	6,353	6,395	6,458	6,563
97	388,00	336,0179	395,69	394,49	392,80	384,09	6,353	6,395	6,458	6,564
98	392,00	339,4820	399,69	398,49	396,80	388,09	6,353	6,396	6,459	6,564
99	396,00	342,9461	403,69	402,49	400,80	392,09	6,353	6,396	6,459	6,565
100	400,00	346,4102	407,69	406,49	404,80	396,09	6,354	6,396	6,460	6,565

Table 38 — Geometry external spline, $\alpha = 30^\circ$, $m = 4$, flat and fillet root, $S_{v \max} = 6,283$

z	D	D_b	$D_{ee \max}$	$D_{Fe \max}$	$D_{le \min}$ Fillet root	$D_{le \min}$ Flat	$S_{\min}$			
							4h	5h	6h	7h
6	24,00	20,7846	28,00	20,92	16,48	17,68	6,236	6,208	6,166	6,096
7	28,00	24,2487	32,00	24,64	20,47	21,67	6,236	6,207	6,164	6,093
8	32,00	27,7128	36,00	28,44	24,47	25,67	6,235	6,206	6,163	6,091
9	36,00	31,1769	40,00	32,29	28,46	29,66	6,234	6,205	6,161	6,088
10	40,00	34,6410	44,00	36,17	32,46	33,66	6,234	6,204	6,160	6,086
11	44,00	38,1051	48,00	40,07	36,46	37,66	6,233	6,203	6,159	6,084
12	48,00	41,5692	52,00	43,99	40,45	41,65	6,233	6,203	6,157	6,082
13	52,00	45,0333	56,00	47,93	44,45	45,65	6,232	6,202	6,156	6,080
14	56,00	48,4974	60,00	51,87	48,44	49,64	6,232	6,201	6,155	6,078
15	60,00	51,9615	64,00	55,82	52,44	53,64	6,231	6,200	6,154	6,076
16	64,00	55,4256	68,00	59,78	56,44	57,64	6,231	6,200	6,153	6,075
17	68,00	58,8897	72,00	63,74	60,44	61,64	6,230	6,199	6,152	6,073
18	72,00	62,3538	76,00	67,71	64,43	65,63	6,230	6,198	6,151	6,071
19	76,00	65,8179	80,00	71,68	68,43	69,63	6,230	6,198	6,150	6,070
20	80,00	69,2820	84,00	75,66	72,43	73,63	6,229	6,197	6,149	6,068
21	84,00	72,7461	88,00	79,64	76,43	77,63	6,229	6,197	6,148	6,067
22	88,00	76,2102	92,00	83,61	80,42	81,62	6,229	6,196	6,147	6,066
23	92,00	79,6743	96,00	87,60	84,42	85,62	6,228	6,195	6,146	6,064
24	96,00	83,1384	100,00	91,58	88,42	89,62	6,228	6,195	6,145	6,063
25	100,00	86,6025	104,00	95,56	92,42	93,62	6,228	6,194	6,145	6,062
26	104,00	90,0666	108,00	99,55	96,41	97,61	6,227	6,194	6,144	6,060
27	108,00	93,5307	112,00	103,53	100,41	101,61	6,227	6,193	6,143	6,059
28	112,00	96,9948	116,00	107,52	104,41	105,61	6,227	6,193	6,142	6,058
29	116,00	100,4589	120,00	111,51	108,41	109,61	6,226	6,192	6,142	6,057
30	120,00	103,9230	124,00	115,50	112,41	113,61	6,226	6,192	6,141	6,056
31	124,00	107,3872	128,00	119,49	116,40	117,60	6,226	6,192	6,140	6,054
32	128,00	110,8513	132,00	123,48	120,40	121,60	6,226	6,191	6,139	6,053
33	132,00	114,3154	136,00	127,47	124,40	125,60	6,225	6,191	6,139	6,052
34	136,00	117,7795	140,00	131,46	128,40	129,60	6,225	6,190	6,138	6,051
35	140,00	121,2436	144,00	135,46	132,40	133,60	6,225	6,190	6,137	6,050
36	144,00	124,7077	148,00	139,45	136,39	137,59	6,225	6,189	6,137	6,049
37	148,00	128,1718	152,00	143,44	140,39	141,59	6,224	6,189	6,136	6,048
38	152,00	131,6359	156,00	147,43	144,39	145,59	6,224	6,189	6,135	6,047
39	156,00	135,1000	160,00	151,43	148,39	149,59	6,224	6,188	6,135	6,046
40	160,00	138,5641	164,00	155,42	152,39	153,59	6,224	6,188	6,134	6,045
41	164,00	142,0282	168,00	159,42	156,39	157,59	6,223	6,187	6,134	6,044
42	168,00	145,4923	172,00	163,41	160,38	161,58	6,223	6,187	6,133	6,043
43	172,00	148,9564	176,00	167,41	164,38	165,58	6,223	6,187	6,132	6,042
44	176,00	152,4205	180,00	171,40	168,38	169,58	6,223	6,186	6,132	6,041
45	180,00	155,8846	184,00	175,40	172,38	173,58	6,222	6,186	6,131	6,040
46	184,00	159,3487	188,00	179,39	176,38	177,58	6,222	6,186	6,131	6,039
47	188,00	162,8128	192,00	183,39	180,38	181,58	6,222	6,185	6,130	6,039
48	192,00	166,2769	196,00	187,38	184,37	185,57	6,222	6,185	6,130	6,038
49	196,00	169,7410	200,00	191,38	188,37	189,57	6,221	6,184	6,129	6,037
50	200,00	173,2051	204,00	195,38	192,37	193,57	6,221	6,184	6,129	6,036
51	204,00	176,6692	208,00	199,37	196,37	197,57	6,221	6,184	6,128	6,035
52	208,00	180,1333	212,00	203,37	200,37	201,57	6,221	6,183	6,127	6,034
53	212,00	183,5974	216,00	207,37	204,37	205,57	6,221	6,183	6,127	6,033
54	216,00	187,0615	220,00	211,36	208,37	209,57	6,220	6,183	6,126	6,032
55	220,00	190,5256	224,00	215,36	212,36	213,56	6,220	6,182	6,126	6,032
56	224,00	193,9897	228,00	219,36	216,36	217,56	6,220	6,182	6,125	6,031
57	228,00	197,4538	232,00	223,35	220,36	221,56	6,220	6,182	6,125	6,030
58	232,00	200,9179	236,00	227,35	224,36	225,56	6,220	6,182	6,124	6,029
59	236,00	204,3820	240,00	231,35	228,36	229,56	6,219	6,181	6,124	6,028
60	240,00	207,8461	244,00	235,35	232,36	233,56	6,219	6,181	6,123	6,028
61	244,00	211,3102	248,00	239,34	236,36	237,56	6,219	6,181	6,123	6,027
62	248,00	214,7743	252,00	243,34	240,36	241,56	6,219	6,180	6,122	6,026
63	252,00	218,2384	256,00	247,34	244,35	245,55	6,219	6,180	6,122	6,025
64	256,00	221,7025	260,00	251,34	248,35	249,55	6,218	6,180	6,122	6,025
65	260,00	225,1666	264,00	255,34	252,35	253,55	6,218	6,179	6,121	6,024
66	264,00	228,6307	268,00	259,33	256,35	257,55	6,218	6,179	6,121	6,023
67	268,00	232,0948	272,00	263,33	260,35	261,55	6,218	6,179	6,120	6,022
68	272,00	235,5589	276,00	267,33	264,35	265,55	6,218	6,178	6,120	6,022
69	276,00	239,0230	280,00	271,33	268,35	269,55	6,217	6,178	6,119	6,021
70	280,00	242,4871	284,00	275,33	272,34	273,54	6,217	6,178	6,119	6,020
71	284,00	245,9512	288,00	279,32	276,34	277,54	6,217	6,178	6,118	6,019
72	288,00	249,4153	292,00	283,32	280,34	281,54	6,217	6,177	6,118	6,019
73	292,00	252,8794	296,00	287,32	284,34	285,54	6,217	6,177	6,117	6,018
74	296,00	256,3435	300,00	291,32	288,34	289,54	6,217	6,177	6,117	6,017
75	300,00	259,8076	304,00	295,32	292,34	293,54	6,216	6,176	6,117	6,017
76	304,00	263,2717	308,00	299,32	296,34	297,54	6,216	6,176	6,116	6,016
77	308,00	266,7358	312,00	303,31	300,34	301,54	6,216	6,176	6,116	6,015
78	312,00	270,1999	316,00	307,31	304,34	305,54	6,216	6,176	6,115	6,015
79	316,00	273,6640	320,00	311,31	308,33	309,53	6,216	6,175	6,115	6,014
80	320,00	277,1281	324,00	315,31	312,33	313,53	6,216	6,175	6,114	6,013
81	324,00	280,5922	328,00	319,31	316,33	317,53	6,215	6,175	6,114	6,013
82	328,00	284,0563	332,00	323,31	320,33	321,53	6,215	6,175	6,114	6,012
83	332,00	287,5204	336,00	327,31	324,33	325,53	6,215	6,174	6,113	6,011
84	336,00	290,9845	340,00	331,30	328,33	329,53	6,215	6,174	6,113	6,011
85	340,00	294,4486	344,00	335,30	332,33	333,53	6,215	6,174	6,112	6,010
86	344,00	297,9127	348,00	339,30	336,33	337,53	6,215	6,174	6,112	6,009
87	348,00	301,3768	352,00	343,30	340,32	341,52	6,214	6,173	6,112	6,009
88	352,00	304,8409	356,00	347,30	344,32	345,52	6,214	6,173	6,111	6,008
89	356,00	308,3050	360,00	351,30	348,32	349,52	6,214	6,173	6,111	6,007
90	360,00	311,7691	364,00	355,30	352,32	353,52	6,214	6,172	6,110	6,007
91	364,00	315,2332	368,00	359,30	356,32	357,52	6,214	6,172	6,110	6,006
92	368,00	318,6973	372,00	363,30	360,32	361,52	6,214	6,172	6,110	6,005
93	372,00	322,1615	376,00	367,29	364,32	365,52	6,213	6,172	6,109	6,005
94	376,00	325,6256	380,00	371,29	368,32	369,52	6,213	6,171	6,109	6,004
95	380,00	329,0897	384,00	375,29	372,32	373,52	6,213	6,171	6,108	6,004
96	384,00	332,5538	388,00	379,29	376,31	377,51	6,213	6,171	6,108	6,003
97	388,00	336,0179	392,00	383,29	380,31	381,51	6,213	6,171	6,108	6,002
98	392,00	339,4820	396,00	387,29	384,31	385,51	6,213	6,170	6,107	6,002
99	396,00	342,9461	400,00	391,29	388,31	389,51	6,213	6,170	6,107	6,001
100	400,00	346,4102	404,00	395,29	392,31	393,51	6,212	6,170	6,106	6,001

Table 39 — Inspection dimensions internal spline, $\alpha = 30^\circ$, $m = 4$, flat or fillet root, $E_{v \min} = 6,283$

z	D _{Ri}	Measurement over 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	—	—	—	—	—	—	—	—	—	—
8	6,70	22,268	22,355	22,293	22,437	22,329	22,556	22,386	22,746	2,562
9	6,70	25,883	25,958	25,905	26,031	25,937	26,138	25,987	26,310	2,322
10	7,10	28,790	28,888	28,820	28,981	28,862	29,115	28,927	29,328	2,800
11	7,10	32,548	32,630	32,573	32,711	32,610	32,830	32,666	33,021	2,514
12	7,10	37,060	37,136	37,084	37,212	37,118	37,325	37,172	37,507	2,388
13	7,10	40,783	40,854	40,805	40,926	40,838	41,033	40,889	41,208	2,269
14	7,10	45,190	45,259	45,213	45,330	45,245	45,434	45,295	45,606	2,212
15	7,10	48,926	48,993	48,948	49,061	48,980	49,163	49,029	49,330	2,144
16	7,10	53,271	53,336	53,292	53,403	53,324	53,504	53,373	53,670	2,112
17	7,10	57,026	57,089	57,047	57,156	57,079	57,255	57,127	57,419	2,067
18	7,10	61,326	61,388	61,348	61,455	61,379	61,554	61,427	61,717	2,047
19	7,10	65,100	65,161	65,122	65,227	65,153	65,325	65,201	65,487	2,015
20	7,10	69,366	69,427	69,388	69,493	69,420	69,590	69,468	69,752	2,001
21	7,10	73,158	73,218	73,180	73,283	73,211	73,380	73,260	73,541	1,977
22	7,10	77,398	77,457	77,420	77,522	77,451	77,619	77,500	77,780	1,967
23	7,10	81,204	81,263	81,227	81,328	81,258	81,425	81,307	81,585	1,948
24	7,10	85,423	85,481	85,445	85,546	85,477	85,643	85,526	85,804	1,941
25	7,10	89,243	89,301	89,265	89,365	89,297	89,462	89,347	89,623	1,926
26	7,10	93,443	93,501	93,466	93,565	93,498	93,662	93,548	93,823	1,919
27	7,10	97,275	97,332	97,298	97,397	97,330	97,494	97,380	97,654	1,907
28	7,10	101,460	101,517	101,483	101,582	101,516	101,679	101,566	101,840	1,902
29	7,10	105,303	105,359	105,326	105,424	105,359	105,521	105,409	105,682	1,892
30	7,10	109,475	109,531	109,498	109,596	109,531	109,693	109,582	109,854	1,888
31	7,10	113,326	113,382	113,350	113,447	113,383	113,544	113,435	113,706	1,879
32	7,10	117,487	117,543	117,511	117,608	117,545	117,705	117,596	117,867	1,876
33	7,10	121,347	121,402	121,371	121,468	121,405	121,565	121,457	121,727	1,868
34	7,10	125,498	125,553	125,522	125,619	125,556	125,716	125,609	125,879	1,865
35	7,10	129,366	129,420	129,390	129,486	129,424	129,584	129,477	129,746	1,859
36	7,10	133,508	133,562	133,532	133,628	133,567	133,726	133,620	133,889	1,856
37	7,10	137,382	137,436	137,407	137,502	137,441	137,600	137,495	137,764	1,851
38	7,10	141,517	141,570	141,541	141,636	141,576	141,735	141,630	141,899	1,849
39	7,10	145,397	145,450	145,422	145,516	145,457	145,615	145,511	145,779	1,843
40	7,10	149,524	149,578	149,549	149,644	149,585	149,743	149,639	149,908	1,842
41	7,50	152,146	152,200	152,172	152,268	152,208	152,369	152,264	152,537	1,873
42	7,50	156,268	156,323	156,294	156,390	156,331	156,492	156,387	156,660	1,870
43	7,50	160,162	160,215	160,188	160,283	160,224	160,385	160,281	160,553	1,865
44	7,50	164,278	164,332	164,304	164,400	164,342	164,502	164,399	164,671	1,862
45	7,50	168,176	168,229	168,202	168,297	168,239	168,399	168,297	168,568	1,858
46	7,50	172,287	172,340	172,314	172,409	172,351	172,511	172,409	172,681	1,855
47	7,50	176,189	176,242	176,215	176,310	176,253	176,412	176,311	176,582	1,851
48	7,50	180,295	180,348	180,322	180,417	180,360	180,519	180,418	180,690	1,849
49	7,50	184,201	184,253	184,228	184,322	184,266	184,424	184,324	184,595	1,845
50	7,50	188,303	188,355	188,330	188,424	188,368	188,527	188,427	188,698	1,844
51	7,50	192,212	192,264	192,239	192,333	192,278	192,436	192,337	192,607	1,840
52	7,50	196,310	196,362	196,337	196,431	196,376	196,534	196,436	196,706	1,839
53	7,50	200,222	200,274	200,249	200,343	200,289	200,446	200,348	200,618	1,835
54	7,50	204,316	204,368	204,344	204,437	204,383	204,541	204,444	204,713	1,834
55	7,50	208,231	208,283	208,259	208,352	208,299	208,456	208,359	208,629	1,831
56	7,50	212,322	212,374	212,350	212,443	212,390	212,547	212,451	212,720	1,830
57	7,50	216,240	216,291	216,268	216,361	216,308	216,465	216,369	216,639	1,827
58	7,50	220,328	220,379	220,356	220,449	220,396	220,553	220,458	220,727	1,826
59	7,50	224,248	224,299	224,277	224,369	224,317	224,474	224,379	224,648	1,823
60	7,50	228,333	228,384	228,362	228,454	228,402	228,559	228,464	228,733	1,822
61	7,50	232,256	232,306	232,285	232,377	232,326	232,482	232,388	232,657	1,820
62	7,50	236,338	236,388	236,367	236,459	236,408	236,564	236,471	236,739	1,819
63	7,50	240,263	240,313	240,292	240,384	240,334	240,489	240,397	240,665	1,817
64	7,50	244,342	244,393	244,372	244,463	244,413	244,569	244,477	244,745	1,816
65	7,50	248,270	248,320	248,299	248,391	248,341	248,497	248,405	248,673	1,814
66	7,50	252,347	252,397	252,376	252,468	252,418	252,574	252,482	252,751	1,813
67	7,50	256,276	256,326	256,306	256,397	256,348	256,504	256,413	256,681	1,811
68	7,50	260,351	260,400	260,381	260,472	260,423	260,578	260,488	260,756	1,810
69	7,50	264,282	264,332	264,312	264,403	264,355	264,510	264,420	264,688	1,808
70	7,50	268,355	268,404	268,385	268,476	268,428	268,583	268,493	268,761	1,808
71	7,50	272,288	272,337	272,318	272,409	272,361	272,516	272,427	272,695	1,806
72	7,50	276,358	276,407	276,389	276,479	276,432	276,587	276,498	276,766	1,805
73	7,50	280,293	280,342	280,324	280,414	280,368	280,522	280,434	280,702	1,804
74	7,50	284,362	284,411	284,393	284,483	284,436	284,591	284,503	284,771	1,803
75	7,50	288,299	288,347	288,330	288,420	288,373	288,528	288,440	288,708	1,801
76	7,50	292,365	292,414	292,396	292,486	292,440	292,595	292,508	292,775	1,801
77	7,50	296,303	296,352	296,335	296,425	296,379	296,533	296,447	296,714	1,799
78	7,50	300,368	300,417	300,400	300,489	300,444	300,598	300,512	300,780	1,799
79	7,50	304,308	304,356	304,340	304,429	304,385	304,538	304,453	304,720	1,798
80	7,50	308,371	308,420	308,403	308,492	308,448	308,602	308,516	308,784	1,797
81	7,50	312,313	312,361	312,345	312,434	312,390	312,543	312,458	312,726	1,796
82	7,50	316,374	316,422	316,406	316,495	316,452	316,605	316,521	316,788	1,795
83	7,50	320,317	320,365	320,349	320,438	320,395	320,548	320,464	320,731	1,794
84	7,50	324,377	324,425	324,409	324,498	324,455	324,608	324,525	324,792	1,793
85	7,50	328,321	328,369	328,354	328,442	328,400	328,553	328,469	328,736	1,792
86	7,50	332,380	332,427	332,412	332,501	332,459	332,612	332,529	332,796	1,792
87	7,50	336,325	336,372	336,358	336,446	336,404	336,557	336,475	336,742	1,791
88	7,50	340,382	340,430	340,415	340,504	340,462	340,615	340,533	340,800	1,790
89	7,50	344,329	344,376	344,362	344					

Table 40 — Inspection dimensions external spline, $\alpha = 30^\circ$, $m = 4$, flat or fillet root, $S_{v\max} = 6,283$

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	9,00	38,640	38,676	38,606	38,667	38,555	38,652	38,470	38,629	1,222
7	8,50	40,692	40,729	40,656	40,718	40,603	40,703	40,514	40,679	1,252
8	8,50	45,594	45,633	45,556	45,622	45,500	45,606	45,405	45,580	1,311
9	8,50	49,032	49,071	48,994	49,060	48,937	49,043	48,841	49,017	1,315
10	8,50	53,712	53,753	53,673	53,741	53,613	53,723	53,513	53,696	1,356
11	8,00	55,968	56,010	55,927	55,997	55,864	55,979	55,760	55,950	1,397
12	8,00	60,494	60,537	60,451	60,523	60,387	60,504	60,279	60,474	1,428
13	8,00	64,111	64,153	64,067	64,140	64,002	64,120	63,893	64,090	1,432
14	8,00	68,549	68,592	68,504	68,578	68,437	68,558	68,325	68,526	1,456
15	8,00	72,218	72,261	72,173	72,247	72,105	72,226	71,992	72,194	1,460
16	8,00	76,592	76,636	76,546	76,622	76,477	76,600	76,362	76,567	1,479
17	8,00	80,301	80,345	80,255	80,330	80,185	80,309	80,069	80,275	1,483
18	8,00	84,628	84,673	84,581	84,657	84,510	84,635	84,391	84,600	1,499
19	8,00	88,369	88,413	88,321	88,397	88,249	88,375	88,129	88,340	1,503
20	8,00	92,658	92,703	92,610	92,687	92,537	92,664	92,415	92,628	1,516
21	8,00	96,424	96,469	96,375	96,452	96,301	96,429	96,178	96,392	1,519
22	8,00	100,684	100,729	100,634	100,712	100,560	100,688	100,435	100,651	1,530
23	8,00	104,470	104,515	104,420	104,498	104,345	104,474	104,219	104,436	1,533
24	8,00	108,706	108,751	108,655	108,734	108,579	108,709	108,452	108,671	1,543
25	8,00	112,509	112,555	112,458	112,537	112,381	112,512	112,253	112,473	1,546
26	8,00	116,725	116,771	116,673	116,753	116,596	116,727	116,466	116,687	1,554
27	8,00	120,543	120,588	120,491	120,570	120,413	120,544	120,282	120,504	1,557
28	8,00	124,742	124,787	124,689	124,769	124,610	124,742	124,478	124,701	1,564
29	7,50	127,164	127,211	127,111	127,192	127,030	127,165	126,894	127,122	1,595
30	7,50	131,345	131,391	131,290	131,372	131,209	131,344	131,073	131,302	1,601
31	7,50	135,185	135,232	135,130	135,212	135,048	135,184	134,911	135,141	1,602
32	7,50	139,353	139,400	139,298	139,380	139,215	139,352	139,077	139,308	1,608
33	7,50	143,203	143,250	143,148	143,230	143,065	143,201	142,926	143,157	1,609
34	7,50	147,361	147,408	147,305	147,387	147,221	147,358	147,081	147,314	1,614
35	7,50	151,220	151,266	151,164	151,246	151,079	151,216	150,938	151,171	1,615
36	7,50	155,368	155,415	155,311	155,394	155,226	155,364	155,084	155,318	1,619
37	7,50	159,234	159,281	159,177	159,260	159,092	159,230	158,949	159,183	1,621
38	7,50	163,374	163,421	163,317	163,399	163,231	163,369	163,087	163,322	1,625
39	7,50	167,247	167,294	167,190	167,272	167,103	167,242	166,959	167,194	1,626
40	7,50	171,379	171,426	171,322	171,404	171,235	171,373	171,089	171,326	1,629
41	7,50	175,259	175,305	175,201	175,283	175,113	175,252	174,967	175,204	1,630
42	7,50	179,384	179,431	179,326	179,409	179,238	179,377	179,091	179,329	1,634
43	7,50	183,269	183,316	183,211	183,294	183,122	183,262	182,975	183,213	1,634
44	7,50	187,389	187,436	187,330	187,413	187,241	187,381	187,093	187,331	1,637
45	7,50	191,279	191,326	191,220	191,303	191,130	191,270	190,981	191,220	1,638
46	7,50	195,393	195,440	195,333	195,416	195,244	195,384	195,094	195,333	1,641
47	7,50	199,288	199,334	199,228	199,311	199,138	199,278	198,987	199,227	1,642
48	7,50	203,397	203,443	203,337	203,420	203,246	203,386	203,095	203,335	1,645
49	7,50	207,296	207,342	207,235	207,319	207,144	207,285	206,993	207,233	1,645
50	7,50	211,400	211,447	211,339	211,423	211,248	211,389	211,096	211,336	1,648
51	7,50	215,303	215,350	215,242	215,325	215,150	215,291	214,997	215,239	1,648
52	7,50	219,403	219,450	219,342	219,425	219,250	219,391	219,096	219,338	1,651
53	7,50	223,310	223,356	223,249	223,332	223,156	223,297	223,002	223,244	1,651
54	7,50	227,406	227,453	227,344	227,428	227,252	227,393	227,096	227,339	1,653
55	7,50	231,316	231,363	231,254	231,338	231,161	231,302	231,005	231,248	1,654
56	7,50	235,409	235,455	235,347	235,430	235,253	235,394	235,097	235,340	1,656
57	7,50	239,322	239,368	239,260	239,343	239,166	239,307	239,009	239,252	1,657
58	7,50	243,412	243,458	243,349	243,432	243,254	243,396	243,097	243,340	1,658
59	7,50	247,328	247,374	247,265	247,348	247,170	247,311	247,012	247,256	1,659
60	7,50	251,414	251,460	251,350	251,434	251,255	251,397	251,096	251,341	1,661
61	7,50	255,333	255,379	255,269	255,352	255,174	255,315	255,014	255,259	1,661
62	7,50	259,416	259,462	259,352	259,435	259,256	259,398	259,096	259,341	1,663
63	7,50	263,337	263,383	263,273	263,357	263,177	263,319	263,017	263,262	1,663
64	7,50	267,418	267,464	267,354	267,437	267,257	267,399	267,096	267,341	1,665
65	7,50	271,342	271,387	271,277	271,361	271,180	271,323	271,019	271,264	1,665
66	7,50	275,420	275,465	275,355	275,438	275,258	275,400	275,096	275,342	1,667
67	7,50	279,346	279,391	279,281	279,364	279,183	279,326	279,021	279,267	1,667
68	7,50	283,422	283,467	283,356	283,440	283,259	283,401	283,095	283,342	1,668
69	7,50	287,350	287,395	287,284	287,368	287,186	287,329	287,022	287,269	1,669
70	7,50	291,423	291,468	291,358	291,441	291,259	291,401	291,094	291,341	1,670
71	7,50	295,353	295,399	295,288	295,371	295,189	295,331	295,024	295,271	1,671
72	7,50	299,425	299,470	299,359	299,442	299,259	299,402	299,094	299,341	1,672
73	7,50	303,357	303,402	303,291	303,374	303,191	303,334	303,025	303,273	1,672
74	7,50	307,426	307,471	307,360	307,443	307,260	307,402	307,093	307,341	1,673
75	7,50	311,360	311,405	311,293	311,376	311,193	311,336	311,026	311,274	1,674
76	7,50	315,427	315,472	315,360	315,443	315,260	315,403	315,092	315,341	1,675
77	7,50	319,363	319,408	319,296	319,379	319,195	319,338	319,027	319,276	1,675
78	7,50	323,429	323,473	323,361	323,444	323,260	323,403	323,092	323,340	1,676
79	7,50	327,366	327,411	327,298	327,381	327,197	327,340	327,028	327,277	1,676
80	7,50	331,430	331,474	331,362	331,445	331,260	331,403	331,091	331,340	1,677
81	7,50	335,369	335,413	335,301	335,384	335,199	335,342	335,029	335,278	1,678
82	7,50	339,431	339,475	339,363	339,446	339,260	339,403	339,090	339,339	1,679
83	7,50	343,371	343,416	343,303	343,386	343,200	343,343	343,029	343,279	1,679
84	7,50	347,432	347,476	347,363	347,446	347,261	347,403	347,089	347,339	1,680
85	7,50	351,374	351,418	351,305	351,388	351,202	351,345	351,030	351,280	1,680
86	7,50	355,433	355,477	355,364	355,447	355,261	355,404	355,088	355,338	1,681
87	7,50	359,376	359,4							