

Involute spline joints

30° pressure angle

Basic dimensions and test dimensions for modules 0,5, 0,6, 0,75, 0,8 and 1

DIN
5480
Part 3Zahnwellen-Verbindungen mit Evolventenflanken; Eingriffswinkel 30°;
Nennmaße, Maßgrößen, Modul 0,5, 0,6, 0,75, 0,8 und 1Supersedes
March 1986 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

See DIN 5480 Part 1 for symbols, quantities and examples of designation.

1 Module 0,5 ($\alpha_{\min} = 0,08$)

Dimensions in mm

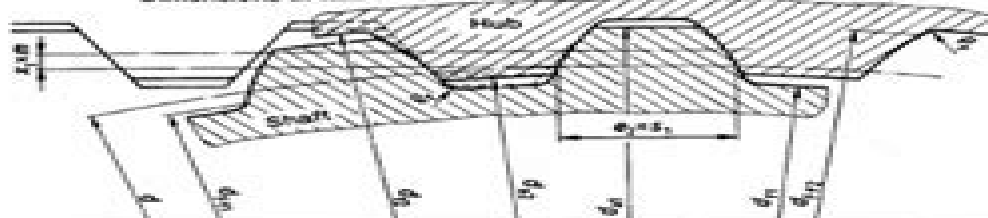


Table 1. Basic dimensions

Reference diam- eter, d_p	Num- ber of teeth, z	Pitch diam- eter, d	Base diam- eter, d_b	Hub root diameter, d_{a2}			Shaft root diameter, d_{f1}			Form circle diameter, d_{fo}		Shaft addendum modifi- cation, $x_1 \cdot m$	Space width (tooth thick- ness), $e_2 = s_1$
				$d_{a2}^{(1)}$	$d_{a2}^{(2)}$	$A_{a2}^{(2)}$	$d_{f1}^{(1)}$	$d_{f1}^{(2)}$	$A_{f1}^{(2)}$	min.	max.		
6	10	5	4,440	5	6	+ 0,19	5,9	4,9	- 0,41	5,95	4,95	+ 0,225	1,045
7	12	6	5,196	6	7	+ 0,19	6,9	5,9	- 0,41	6,95	5,95	+ 0,225	1,045
8	14	7	6,062	7	8	+ 0,19	7,9	6,9	- 0,41	7,95	6,95	+ 0,225	1,045
9	16	8	6,928	8	9	+ 0,19	8,9	7,9	- 0,41	8,95	7,95	+ 0,225	1,045
10	18	9	7,794	9	10	+ 0,19	9,9	8,9	- 0,41	9,95	8,95	+ 0,225	1,045
11	20	10	8,660	10	11	+ 0,19	10,9	9,9	- 0,41	10,95	9,95	+ 0,225	1,045
12	22	11	9,526	11	12	+ 0,19	11,9	10,9	- 0,41	11,95	10,95	+ 0,225	1,045
13	24	12	10,392	12	13	+ 0,20	12,9	11,9	- 0,45	12,96	11,94	+ 0,225	1,045
14	26	13	11,258	13	14	+ 0,20	13,9	12,9	- 0,45	13,96	12,94	+ 0,225	1,045
15	28	14	12,124	14	15	+ 0,20	14,9	13,9	- 0,45	14,96	13,94	+ 0,225	1,045
16	30	15	12,990	15	16	+ 0,20	15,9	14,9	- 0,45	15,96	14,94	+ 0,225	1,045
17	32	16	13,856	16	17	+ 0,20	16,9	15,9	- 0,45	16,96	15,94	+ 0,225	1,045
18	34	17	14,722	17	18	+ 0,20	17,9	16,9	- 0,45	17,96	16,94	+ 0,225	1,045
19	36	18	15,588	18	19	+ 0,20	18,9	17,9	- 0,45	18,96	17,94	+ 0,225	1,045
20	38	19	16,454	19	20	+ 0,20	19,9	18,9	- 0,45	19,96	18,94	+ 0,225	1,045
21	40	20	17,321	20	21	+ 0,20	20,9	19,9	- 0,45	20,96	19,94	+ 0,225	1,045
22	42	21	18,187	21	22	+ 0,20	21,9	20,9	- 0,45	21,96	20,94	+ 0,225	1,045
23	44	22	19,053	22	23	+ 0,20	22,9	21,9	- 0,45	22,96	21,94	+ 0,225	1,045
24	46	23	19,919	23	24	+ 0,20	23,9	22,9	- 0,45	23,96	22,94	+ 0,225	1,045
25	48	24	20,785	24	25	+ 0,20	24,9	23,9	- 0,45	24,96	23,94	+ 0,225	1,045
26	50	25	21,651	25	26	+ 0,21	25,9	24,9	- 0,49	25,97	24,93	+ 0,225	1,045
27	52	26	22,517	26	27	+ 0,21	26,9	25,9	- 0,49	26,97	25,93	+ 0,225	1,045
28	54	27	23,383	27	28	+ 0,21	27,9	26,9	- 0,49	27,97	26,93	+ 0,225	1,045
29	56	28	24,249	28	29	+ 0,21	28,9	27,9	- 0,49	28,97	27,93	+ 0,225	1,045
30	58	29	25,115	29	30	+ 0,21	29,9	28,9	- 0,49	29,97	28,93	+ 0,225	1,045
31	60	30	25,981	30	31	+ 0,21	30,9	29,9	- 0,49	30,97	29,93	+ 0,225	1,045
32	62	31	26,847	31	32	+ 0,21	31,9	30,9	- 0,49	31,97	30,93	+ 0,225	1,045
33	64	32	27,713	32	33	+ 0,21	32,9	31,9	- 0,49	32,97	31,93	+ 0,225	1,045
34	66	33	28,579	33	34	+ 0,21	33,9	32,9	- 0,49	33,97	32,93	+ 0,225	1,045
35	68	34	29,445	34	35	+ 0,21	34,9	33,9	- 0,49	34,97	33,93	+ 0,225	1,045
36	70	35	30,311	35	36	+ 0,21	35,9	34,9	- 0,49	35,97	34,93	+ 0,225	1,045
37	72	36	31,177	36	37	+ 0,21	36,9	35,9	- 0,49	36,97	35,93	+ 0,225	1,045
38	74	37	32,043	37	38	+ 0,21	37,9	36,9	- 0,49	37,97	36,93	+ 0,225	1,045
39	76	38	32,909	38	39	+ 0,21	38,9	37,9	- 0,49	38,97	37,93	+ 0,225	1,045
40	78	39	33,775	39	40	+ 0,21	39,9	38,9	- 0,49	39,97	38,93	+ 0,225	1,045

1) Theoretical root diameter as specified in DIN 5480 Part 1.

2) Limit deviations of theoretical root diameters.

Continued on pages 2 to 11

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Marcel A. Müller

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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