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Straight-sided splines for cylindrical shafts with internal centering — Dimensions, tolerances and verification

Cannelures cylindriques à flancs parallèles, à centrage intérieur — Dimensions, tolérances et vérification

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 14 was developed by Technical Committee ISO/TC 32, *Splines and serrations*, and was circulated to the member bodies in June 1980.

It has been approved by the member bodies of the following countries :

Australia	Germany, F. R.	Romania
Austria	India	South Africa, Rep. of
Belgium	Ireland	Spain
Brazil	Italy	Sweden
Czechoslovakia	Japan	United Kingdom
France	Korea, Rep. of	USSR

The member body of the following country expressed disapproval of the document on technical grounds :

China

This second edition cancels and replaces the first edition (i.e. ISO 14-1978).

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Straight-sided splines for cylindrical shafts with internal centering — Dimensions, tolerances and verification

1 Scope and field of application

This International Standard lays down dimensions, in millimetres, of straight-sided splines for cylindrical shafts with internal centering, light series and medium series.

This International Standard also specifies control methods and corresponding gauges.

2 Dimensions

The nominal dimensions common to shaft and hub, d, D and B are given in table 1. The tolerances are indicated in tables 2 and 3.

3 Designation

The profile of a splined shaft or hub shall be designated by stating, in the following order : the number of splines N, the minor diameter d and the outside diameter D, these three numbers being separated by the sign × ; for example :

Shaft (or hub) 6 × 23 × 26

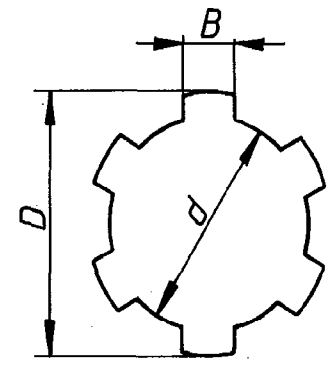

Table 1 — Nominal dimensions

d mm	Light series				Medium series			
	Designation	N	D mm	B mm	Designation	N	D mm	B mm
11					6 × 11 × 14	6	14	3
13					6 × 13 × 16	6	16	3,5
16					6 × 16 × 20	6	20	4
18					6 × 18 × 22	6	22	5
21					6 × 21 × 25	6	25	5
23	6 × 23 × 26	6	26	6	6 × 23 × 28	6	28	6
26	6 × 26 × 30	6	30	6	6 × 26 × 32	6	32	6
28	6 × 28 × 32	6	32	7	6 × 28 × 34	6	34	7
32	8 × 32 × 36	8	36	6	8 × 32 × 38	8	38	6
36	8 × 36 × 40	8	40	7	8 × 36 × 42	8	42	7
42	8 × 42 × 46	8	46	8	8 × 42 × 48	8	48	8
46	8 × 46 × 50	8	50	9	8 × 46 × 54	8	54	9
52	8 × 52 × 58	8	58	10	8 × 52 × 60	8	60	10
56	8 × 56 × 62	8	62	10	8 × 56 × 65	8	65	10
62	8 × 62 × 68	8	68	12	8 × 62 × 72	8	72	12
72	10 × 72 × 78	10	78	12	10 × 72 × 82	10	82	12
82	10 × 82 × 88	10	88	12	10 × 82 × 92	10	92	12
92	10 × 92 × 98	10	98	14	10 × 92 × 102	10	102	14
102	10 × 102 × 108	10	108	16	10 × 102 × 112	10	112	16
112	10 × 112 × 120	10	120	18	10 × 112 × 125	10	125	18