



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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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.

minor diameter d and the outside diameter D , these three numbers being separated by the sign \times ; for example :

Shaft (or hub) $6 \times 23 \times 26$

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

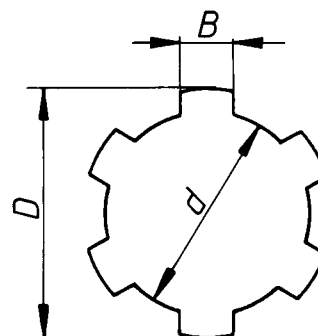


Table 1 — Nominal dimensions

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