

# INTERNATIONAL STANDARD



# 14

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Straight-sided splines for cylindrical shafts — Nominal dimensions

*Cannelures cylindriques à flancs parallèles — Dimensions nominales*

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**Descriptors** : shaft (machine elements), cylindrical shaft, splines, straight-sided splines, dimensions.

## 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*.

It was submitted directly to the ISO Council, in accordance with clause 6.13.1 of the Directives for the technical work of ISO. It cancels and replaces ISO Recommendation R 14-1955, which had been approved by the member bodies of the following countries :

Austria	India	Spain
Belgium	Israel	Sweden
Canada	Italy	Switzerland
Chile	Japan	United Kingdom
Denmark	New Zealand	U.S.A.
Finland	Pakistan	Yugoslavia
France	Portugal	
Germany	South Africa, Rep. of	

No member body had expressed disapproval of the document.

# Straight-sided splines for cylindrical shafts — Nominal dimensions

## 1 SCOPE AND FIELD OF APPLICATION

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

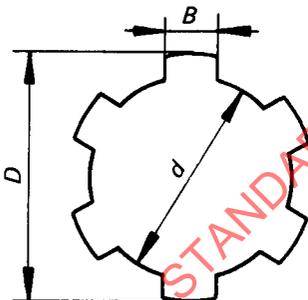
## 2 DIMENSIONS

The values given in the table for  $d$ ,  $D$  and  $B$  are the nominal dimensions common to shaft and hub.

## 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  $\times$ ; for example :

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



$d$	Light series				Medium series			
	Designation	$N$	$D$	$B$	Designation	$N$	$D$	$B$
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	$8 \times 32 \times 40$	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