

INTERNATIONAL
STANDARD

29
ISO
3338-1

Third edition
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Parallel shanks for milling cutters —

Part 1:

Dimensional characteristics of plain parallel
shanks

Queues cylindriques d'outils à fraiser —

Partie 1: Caractéristiques dimensionnelles des queues cylindriques lisses



Reference number
ISO 3338-1:1993(E)

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.

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.

International Standard ISO 3338-1 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 7, *Milling cutters and milling machine accessories*.

This third edition cancels and replaces the second edition (ISO 3338-1:1977), to which the shank diameters d_1 of 3 mm, 14 mm and 18 mm have been added and in which the tolerance of length l_1 has been modified.

ISO 3338 consists of the following parts, under the general title *Parallel shanks for milling cutters*:

- Part 1: *Dimensional characteristics of plain parallel shanks*
- Part 2: *Dimensional characteristics of flatted parallel shanks*
- Part 3: *Dimensional characteristics of parallel shanks with 2 degree angular flats*
- Part 4: *Dimensional characteristics of screwed shanks*

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Parallel shanks for milling cutters —

Part 1:
Dimensional characteristics of plain parallel shanks

1 Scope

This part of ISO 3338 specifies the dimensions of plain parallel shanks for milling cutters (of diameters 3 mm to 63 mm). It is applicable to both single-ended cutters and double-ended cutters.

The dimensions of flattened parallel shanks, parallel shanks with 2° angular flats and screwed shanks are the subject of ISO 3338-2, ISO 3338-3 and ISO 3338-4, respectively.

2 Dimensions

See figure 1 and table 1.

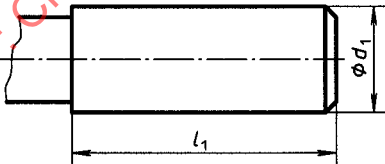


Figure 1

Table 1

Dimensions in millimetres

d_1 h8	3 ¹⁾	4	5	6 ¹⁾	8	10	12 ¹⁾	14	16	18	20	25	32 ¹⁾	40	50	63
l_1 $\begin{smallmatrix} +2 \\ 0 \end{smallmatrix}$	28			36		40	45		48		50	56	60	70	80	90

1) Not in conformity with ISO 237:1975, *Rotating tools with parallel shanks — Diameters of shanks and sizes of driving squares*.