INTERNATIONAL ORGANIZATION FOR STANDARDIZATION -MEЖДУНAPOДНАЯ OPГAHИЗALИЯ ПО СТАНДАРТИЗALИИ. ORGANISATION INTERNATIONALE DE NORMALISATION

# Inverse dovetail cutters and dovetail cutters with parallel shanks 

Fraises coniques à cône renversé et à cône direct, à queue cylindrique

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ISO 3859:1977
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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 3859 was developed by Technical Committee
ISO/TC 29, Small tools, and was circulated to the member bodies in July 1975.
It has been approved by the member bodies of the following countries: iteh.ai)

| Australia | India | Spain8559:1977 |
| :--- | :--- | :--- |
| Austria | Israel $/ / /$ standards.iteh.ai/cata Switzerland/sist/39766a5f-5f0e-461e-a2af- |  |
| Belgium | Italy | 62697 Turkey/iso-3859-1977 |
| Bulgaria | Mexico | United Kingdom |
| Canada | Netherlands | U.S.A. |
| France | Poland | U.S.S.R. |
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The member body of the following country expressed disapproval of the document on technical grounds :

## Czechoslovakia

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# Inverse dovetail cutters and dovetail cutters with parallel shanks 

## iTeh STANDARID PREVIIEW <br> (standards.iteh.ai)

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard lays down the dimensions of inverse dovetail cutters and dovetail cutters with plain parallel and flatted parallel shanks.

Inverse dovetail cutters and dovetail cutters have the same design characteristics.

This International Standard applies to $45^{\circ}$ and $60^{\circ}$ dovetail cutters and inverse dovetail cutters with cutting diameters of $D=16$ to $31,5 \mathrm{~mm}$.

Parallel shanks are in accordance with ISO 3338/I and ISO 3338/II.

2 REFERENCES
ISO 523, Milling cutters - Recommended range of outside diameters.

ISO 3338/I, Parallel shanks for milling cutters - Part 1: Dimensional characteristics of plain parallel shanks.

ISO 3338/II, Parallel shanks for milling cutters - Part II : Dimensional characteristics of flatted parallel shanks.


Dovetail cutters
Inverse dovetail cutters
iTeh STANDARD PREVIEW
Dimensions in millimetres

| $\begin{gathered} D \\ \mathrm{j}_{\mathrm{s}} 16 \end{gathered}$ | L | $\square$ | $d^{1)}$ | $\begin{array}{r} a^{2)} \\ \pm 30^{\prime} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| ttp 16 standa | ds.it60 ai/cat | log/4andard | //sist/39766a | f0e-461$45^{\circ}$ |
|  | 289 | +661736dinor | 385121977 |  |
| 20 | 63 | 5 |  |  |
| 25 | 67 | 6,3 | 16 |  |
| 31,53) | 71 | 8 |  |  |
| 16 | 60 | 6,3 | 12 | $60^{\circ}$ |
| 20 | 63 | 8 |  |  |
| 25 | 67 | 10 | 16 |  |
| 31,53) | 71 | 12,5 |  |  |

1) Tolerances on $d:$ h8 for plain parallel shanks;
h6 for flatted parallel shanks.
2) This angle corresponds to the cutting edge angle $\kappa_{r}$ in the case of inverse dovetail cutters and to the included angle $\epsilon_{r}$ in the case of dovetail cutters.
3) In accordance with ISO 523, the more rounded value of 32 mm is also allowed instead of this dimension.

[^0]:    (c) Intarnational Organization for Standardization, 1977

