# INTERNATIONAL STANDARD 2585

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

# Slotting cutters with plain bore and key drive — Metric series



First edition — 1972-12-01



UDC 621.914.28

Ref. No. ISO 2585-1972 (E)

**Descriptors** : tools, cutting tools, milling cutters, dimensions.

Price based on 1 page

## 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 2585 was drawn up by Technical Committee ISO/TC 29, *Small tools*.



It was approved in February 1972 by the Member Bodies of the following countries :



| | | |
|---|---|---|
| Austria | Italy | Switzerland |
| Belgium | Japan | Thailand |
| Egypt, Arab Rep. of | Poland | Turkey |
| France | Romania | United Kingdom |
| Hungary | South Africa, Rep. of | U.S.A. |
| India | Spain | U.S.S.R. |
| Israel | Sweden | |

The Member Body of the following country expressed disapproval of the document on technical grounds :

Czechoslovakia



Printed in Switzerland

# Slotting cutters with plain bore and key drive — Metric series

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of metric series slotting cutters with plain bore and key drive intended for fitting to cutter arbors.

These cutters may be made with different types of teeth — straight, helicoidal, etc. — the type of tooth being left to the choice of the manufacturer.

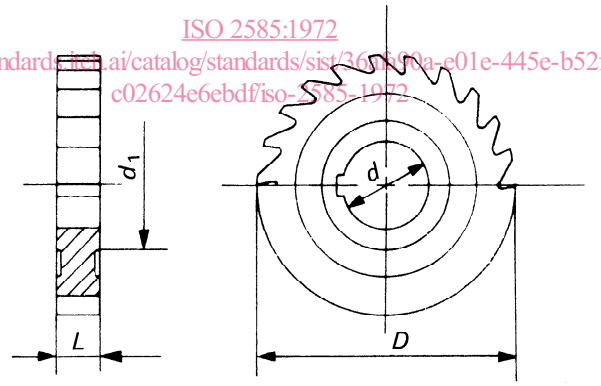
The range of outside diameters of these cutters is taken from ISO/R 523, *Recommended range of outside diameters for milling cutters.*

## 2 REFERENCE

ISO/R 240, *Interchangeability dimensions for milling cutters and cutter arbors or cutter mandrels — Metric series and inch series.*



## 3 DIMENSIONS




Dimensions in millimetres

| $D$ | $d$* | $d_1$ | $L$** | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $j_s16$ | H7 | min. | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 25 | 28 | 32 | 36 | 40 |
| **50** | 16 | 27 | X | X | X | X | X | | | | | | | | | | | |
| **63** | 22 | 34 | X | X | X | X | X | X | X | | | | | | | | | |
| **80** | 27 | 41 | | X | X | X | X | X | X | X | X | | | | | | | |
| **100** | 32 | 47 | | | X | X | X | X | X | X | X | X | X | X | | | | |
| **125** | | | | | | X | X | X | X | X | X | X | X | X | | | | |
| **160** | 40 | 55 | | | | | X | X | X | X | X | X | X | X | X | X | | |
| **200** | | | | | | | | X | X | X | X | X | X | X | X | X | X | X |

* The bore and keyway dimensions shall be in accordance with the metric series of ISO/R 240.

** The tolerance on thickness $L$ of the cutter is to be determined by agreement between the interested parties as a function of the tolerance of the part to be produced.

This page intentionally left blank