
INTERNATIONAL STANDARD



523

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

Milling cutters — Recommended range of outside diameters

Fraises à métaux — Gamme recommandée des diamètres extérieurs

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

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 29 has reviewed ISO Recommendation R 523 and found it technically suitable for transformation. International Standard ISO 523 therefore replaces ISO Recommendation R 523-1966 to which it is technically identical.

ISO Recommendation R 523 was approved by the Member Bodies of the following countries :

| | | |
|----------------|----------------|----------------|
| Australia | France | Portugal |
| Austria | Germany | Spain |
| Belgium | Hungary | Sweden |
| Brazil | India | Switzerland |
| Canada | Italy | Turkey |
| Chile | Japan | United Kingdom |
| Colombia | Korea, Rep. of | U.S.A. |
| Czechoslovakia | New Zealand | U.S.S.R. |
| Denmark | Poland | Yugoslavia |

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

Netherlands*

No Member Body disapproved the transformation of ISO/R 523 into an International Standard.

* Subsequently, this Member Body approved the Recommendation.

Milling cutters – Recommended range of outside diameters

1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes a recommended range of outside diameters, applicable in principle to all milling cutters, including metal slitting saws.

Cutters whose exact diameters are strictly governed by the particular purpose for which they are intended (T-slot cutters or keyway cutters for example) are, however, excluded from its scope.

2 INTERCHANGEABILITY

This International Standard comprises two numerical tables relating to the metric range (table 1) and to the inch range (table 2) respectively.

Although the sizes given in the two ranges are not identical, they are close enough to each other to provide practical interchangeability between the outside diameters in one range and the corresponding outside diameters in the other.

3 SPECIFICATION

The two recommended ranges of outside diameters, in millimetres and in inches, have been established by using preferred numbers, exact or rounded values, in accordance with the R 10 scale for the principal series and R 20 for the complete range, which includes the sizes in the secondary series.