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International Standard



1984/0

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

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**Test conditions for milling machines with table of fixed height, with horizontal or vertical spindle —  
Part 0 : General introduction**

*Conditions de réception des machines à fraiser à table à hauteur fixe, à broche horizontale ou verticale — Partie 0 : Introduction générale*

First edition — 1984-06-01

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Descriptors : machine tools, milling machines, vocabulary.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (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 authorized 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 1984/0 was developed by Technical Committee ISO/TC 39, *Machine tools*, and was circulated to the member bodies in April 1982.

It has been approved by the member bodies of the following countries :

|                     |                        |                |
|---------------------|------------------------|----------------|
| Belgium             | Ireland                | Spain          |
| Brazil              | Italy                  | Sweden         |
| China               | Japan                  | Switzerland    |
| Czechoslovakia      | Korea, Dem. P. Rep. of | United Kingdom |
| Egypt, Arab Rep. of | Korea, Rep. of         | USA            |
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| Germany, F.R.       | Poland                 | Yugoslavia     |
| Hungary             | Romania                |                |
| India               | South Africa, Rep. of  |                |

No member body expressed disapproval of the document.

# Test conditions for milling machines with table of fixed height, with horizontal or vertical spindle — Part 0 : General introduction

## 1 Scope and field of application

This part of ISO 1984 defines the machining processes that can be carried out on milling machines with table of fixed height, with horizontal or vertical spindle, and describes the different types of machines.

Milling machines with table of variable height are covered by ISO 1701.

This part of ISO 1984 also gives a terminology for the main elements of the machine.

NOTE — In addition to terms used in the three official ISO languages (English, French and Russian), this International Standard gives the equivalent terms in German, Italian, Dutch, Spanish and Swedish; these have been included at the request of Technical Committee ISO/TC 39 and are published under the responsibility of the Member Bodies for Germany, F.R. (DIN), Italy (UNI), the Netherlands (NMI), Spain (IRANOR) and Sweden (SIS). However, only the terms given in the official languages can be considered as ISO terms.

## 2 References

ISO 1701/0, *Test conditions for milling machines with table of variable height, with horizontal or vertical spindle — Part 0: General introduction.*

ISO 3855, *Milling cutters — Nomenclature.*

## 3 Definitions of the machining processes that can be carried out

### 3.1 Milling operations

Milling is a machining operation which consists of removing material by means of a rotary tool called a "milling cutter" of which there are several different types.

The usual milling operations can be divided into three categories :

- slab milling operations (see figure 1);
- face milling operations (see figure 2);
- end milling operations (see figure 3).

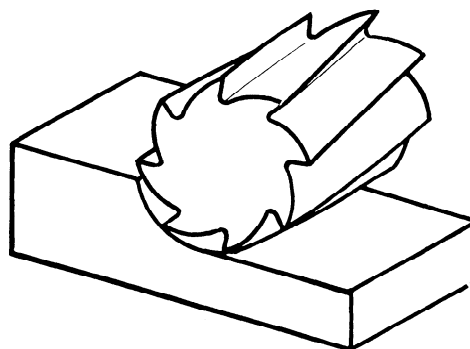


Figure 1 — Slab milling operation

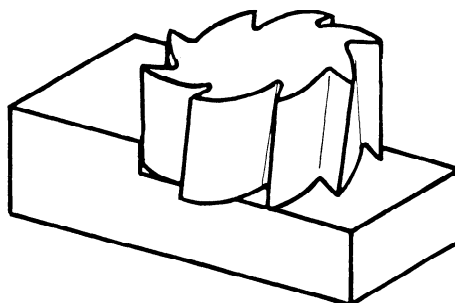


Figure 2 — Face milling operation

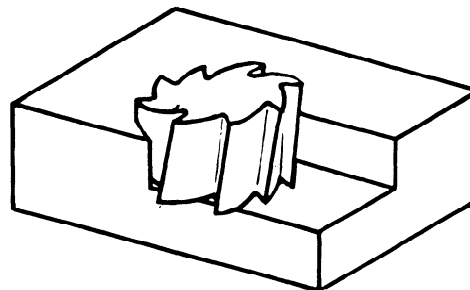


Figure 3 — End milling operation