

International Standard



1860

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Information processing — Precision reels for magnetic tape used in interchange instrumentation applications

Traitement de l'information — Bobines de précision pour bandes magnétiques pour l'enregistrement de mesures

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1860 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

This third edition cancels and replaces the second edition (ISO 1860-1978), of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Contents

	Page
0 Introduction	1
1 Scope and field of application	1
2 Compatibility	1
3 Reference	1
4 Requirements	1
Annex — Protecting collars for precision reels used in interchange instrumentation applications	6

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0 Introduction

The performance levels contained in this International Standard represent the minimum acceptable levels of performance for interchange purposes. They, therefore, represent the performance levels which the interchange media are expected to meet or surpass during their useful life and thus define end-of-life criteria for interchange purposes. The performance levels in this International Standard are not intended to be used for purchase specifications.

Quantitative limits for some of the requirements falling within the scope of this International Standard are not stated but are left to agreement between interchange parties. Standard test methods and measurement procedures should be used to establish such quantities.

The annex, which does not form part of this International Standard, gives recommended characteristics for wraparound reel bands.

1 Scope and field of application

This International Standard specifies the recorder/reproducer interface or envelope requirements for metal- and glass-flanged precision reels with 76 mm (3 in) centrehole, for magnetic tape used in interchange instrumentation applications.

NOTE — Numeric values in the S.I. and/or Imperial measurement system in this International Standard may have been rounded off and therefore are consistent with, but not exactly equal to, each other. Either system may be used, but the two should be neither intermixed nor reconverted. The original design was made using the Imperial measurement system.

Conversions of toleranced dimensions from Imperial units to S.I. units have been performed according to ISO 370.

2 Compatibility

Except as indicated in clause 0, interchange parties conforming to this International Standard should be able to achieve compatibility with a minimum need for additional exchange of technical information.

3 Reference

ISO 370, *Toleranced dimensions — Conversion from inches into millimetres and vice versa*.

4 Requirements

4.1 Dimensions

For measurement purposes, dimensions are referred to the reference plane (see figure 1) which is defined as the mounting surface of the reel.

The dimensions of the reels shall be as specified in the figure and tables 1, 2, 3 and 4.

4.2 Symmetry

Reels and hubs shall be symmetrical to permit mounting from either side.

NOTE — In the section view in figure 1, the mounting surface and the reference plane are shown on the right side. For left side mounting, the same dimensions apply with the reference plane taken on the left mounting surface. Thus, designation of left and right sides is arbitrary and is not intended to imply asymmetry.