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International Standard



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**Aerospace construction — MJ threads —  
Part 1 : Basic profile**

*Constructions aérospatiales — Filetage MJ — Partie 1 : Profil de base*

First edition — 1981-12-01

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UDC 621.882.082 : 629.7

Ref. No. ISO 5855/1-1981 (E)

Descriptors : aircraft industry, screw threads, profiles, dimensions, dimensional tolerances.

## Foreword

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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 5855/1 was developed by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and was circulated to the member bodies in July 1980.

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

Austria	Egypt, Arab Rep. of	Pakistan
Belgium	France	Romania
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China	Japan	United Kingdom
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The member body of the following country expressed disapproval of the document on technical grounds :

USSR

# Aerospace construction — MJ threads — Part 1 : Basic profile

## 0 Introduction

The basic profile of the MJ threads specified in this International Standard differs from that of the general purpose screw threads (M threads) specified in ISO 68 only in an increase in truncation on the minor diameter of internal thread  $D_1$  (0,312 5  $H$  instead of 0,250 0  $H$ ). This difference is due to the adoption of a maximum radius of 0,180 42  $P$  on the root diameter of external thread  $d_3$  (see ISO 5855/2).

## 1 Scope and field of application

This part of ISO 5855 specifies the basic profile for MJ threads.

This basic profile is applicable to all threaded parts of nominal diameters 1,6 mm and larger for use in aerospace construction. Threaded parts of nominal diameters 1 mm and 1,2 mm shall comply with ISO/R 1501.

## 2 References

ISO 68, *ISO general purpose screw threads — Basic profile.*

ISO/R 1501, *ISO miniature screw threads.*

ISO 5855/2, *Aerospace construction — MJ threads — Part 2 : Dimensions for bolts and nuts.*

## 3 Definition

**basic profile** : The theoretical profile corresponding to the basic dimensions (without tolerances) of the major diameter, pitch diameter and minor diameter of the threads. (See the figure.)

Tolerance deviations shall be applied to these basic dimensions.