

DIN 13-51

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**General purpose ISO metric screw threads –  
Part 51: External screw threads for transition fits –  
Tolerances, limit deviations, limits of sizes**

Metrisches ISO-Gewinde allgemeiner Anwendung –  
Teil 51: Außengewinde mit Übergangstoleranzfeld (früher Gewinde für Festsitz) –  
Toleranzen, Grenzabmaße, Grenzmaße

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In case of doubt, the German-language original should be consulted as the authoritative text.

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## Foreword

This standard has been prepared by Section B *Gewinde* of the *Normenausschuss Technische Grundlagen* (Fundamental Technical Standards Committee). It is an editorially revised edition of DIN 13-51:1988-12, with the normative references updated and the designations modified in form, but not in substance, to conform with standard terminology.

## Amendments

The following amendments have been made to DIN 13-51:1988-12:

- a) the title of the standard is now more precise;
- b) in the German edition of this standard, the following terminology has been modified. The first term has also been changed in the English translation:
  - *Außengewinde* (external thread) replaces *Bolzensgewinde* (bolt thread);
  - *Toleranzklasse* (tolerance class) replaces *Toleranzfeld*;
- c) the symbol " $A_0$ " used to designate limit deviation has been changed to "es";
- d) the symbol " $A_U$ " used to designate limit deviation has been changed to "ei";
- e) in the German edition of this standard, the unit of measure for major diameter, pitch diameter and minor diameter in tables 4 and 5 has been amended from " $\mu\text{m}$ " to "mm"; this correction had already been made in the previous English edition;
- f) the normative references clause has been updated;
- g) the annex "Explanatory notes" has been updated;
- h) the standard has been editorially revised,

## Previous editions

DIN 13 and DIN 14, Suppl. 14:1944x-03

DIN 13 and DIN 14, Suppl. 15:1944xx-03

DIN 13-51:1988-12

## 1 Scope

This standard specifies the tolerance classes for external threads to be paired with internal threads of tolerance class "fine" (4H and 4H5H) as in DIN ISO 965-1. This pairing of threads aims to achieve an interference fit; however, it should be noted that the actual dimensions of the external and internal threads in the transition tolerance zone will result in either clearance or interference in the threaded joint.

## 2 Normative references

This standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the titles of the publications are listed below. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to (including any amendments) applies.

DIN 13-1, *General purpose ISO metric screw threads — Part 1: Nominal sizes for 1 mm to 68 mm diameter coarse pitch threads*