

# Relationship between tolerances of size, form, and parallelism

## Envelope requirement without individual indication on the drawing

**DIN**  
**7167**

Zusammenhang zwischen Maß-, Form- und Parallelitätstoleranzen; Hüllbedingung ohne Zeichnungseintragung

This standard, together with DIN ISO 1101, March 1985 edition, supersedes DIN 7184 Part 1, May 1972 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

### 1 Scope and field of application

The specifications given in this standard with regard to the relationship between tolerances of size, form and parallelism apply to drawings in which no reference is made in or close to the drawing title block to their being tolerated in accordance with ISO 8015 (or with its predecessor, DIN 2300).

The purpose of this standard is to clarify the corresponding specifications previously given in DIN 7184 Part 1. It is the national standard referred to in subclause 7.2 of ISO 8015 (issued as a DIN ISO Standard in July 1986), which lays down that the envelope requirement for single features is the norm and therefore does not need to be separately specified on the drawing.

### 2 Envelope requirement without indication on the drawing

In the case of drawings based on DIN Standards on tolerances and fits and with no specifications to the contrary (e.g. reference to ISO 8015), the envelope requirement (see Figure 1) shall apply for all features without its being separately indicated on the drawing.

This envelope requirement corresponds to the envelope requirement specified in subclause 6.1 of ISO 8015 which states that, for a single feature, i.e. a cylindrical surface or a feature established by two parallel plane surfaces, the envelope of perfect form at maximum material size of the feature shall not be violated.

That means that the deviations of form and the deviations from parallelism of opposing plane surfaces are controlled by the dimensional tolerance, unless other more specific tolerances are indicated for the features concerned by means of the symbols specified in ISO 1101, the values of these tolerances being greater than that of the dimensional tolerance of the feature.

Indication on drawing

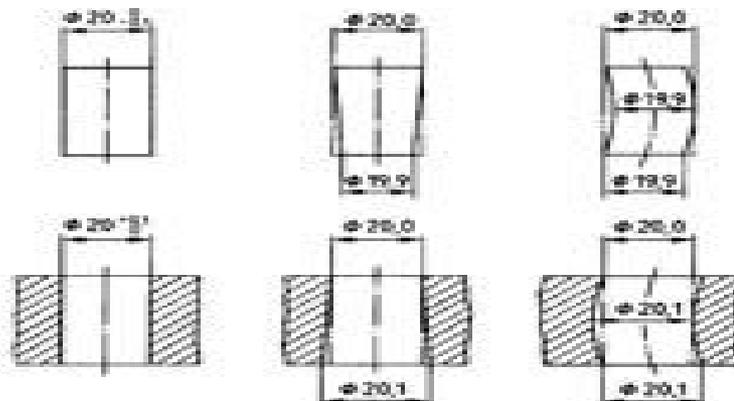


Figure 1. Envelope requirement

Meaning

In the case of shafts, the surface of the feature shall not exceed the geometrically ideal form (cylinder) at its maximum material limit of size (envelope requirement), nor shall the actual size be smaller than the maximum material limit of size at any point.

The cylinder at its maximum material limit of size is embodied by the GO ring gauge.

In the case of holes, the surface of the feature shall not be smaller than the geometrically ideal form (cylinder) at its minimum material limit of size (envelope requirement), nor shall the actual size be greater than the maximum material limit of size at any point.

The cylinder at its minimum material limit of size is embodied by the GO plug gauge.

Continued on page 2

# Din 7167

**JL Elias**



## **Din 7167:**

### **Geometrical Dimensioning and Tolerancing for Design, Manufacturing and Inspection** Georg

Henzold,2006-10-13 Geometrical tolerancing is used to specify and control the form location and orientation of the features of components and manufactured parts This book presents the state of the art of geometrical tolerancing covers the latest ISO and ANSI ASME standards and is a comprehensive reference and guide for all professional engineers designers CAD users quality managers and anyone involved in the creation or interpretation of CAD plans or engineering designs and specifications For all design and manufacturing engineers working with these internationally required design standards Covers ISO and ANSI geometrical tolerance standards including the 2005 revisions to the ISO standard Geometrical tolerancing is used in the preparation and interpretation of the design for any manufactured component or item essential information for designers engineers and CAD professionals

**Inspection-oriented Tolerancing - Size, Form and Location** Robert Roithmeier,2016-10-13 **Handbook of Geometrical Tolerancing** G. Henzold,1995-05-30 This book presents the state of the art regarding geometrical tolerancing It describes the international standardisation laid down in ISO Standards and the differences with the American National Standards ANSI and the East European Standards Additional specifications laid down in the British and German standards DIN Standards are also addressed New techniques e g vectorial dimensioning and tolerancing statistical tolerancing and general geometrical tolerancing are explained Hints for manufacturing according to geometrical tolerancing are given Principles for the inspection of geometrical deviations are outlined providing a basis for tolerancing suitable for inspection Examples for tolerancing appropriate to various functional requirements are given

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Automotive Handbook Robert Bosch GmbH,2022-05-02 The latest edition of the leading automotive engineering reference In the newly revised Eleventh Edition of the Bosch Automotive Handbook a team of accomplished automotive experts delivers a comprehensive and authoritative resource for automotive engineers designers technicians and students alike Since 1936 the Bosch Automotive Handbook has been providing readers with of the moment coverage of the latest mechanical and research developments in automotive technology from detailed technical analysis to the newest types of vehicles This newest edition is packed with over 2 000 pages of up to date automotive info making it the go to reference for both engineers and technicians It includes

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*Sessional Papers* Great Britain. Parliament. House of Commons,1909

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*BOSCH Automotive Handbook* Robert Bosch GmbH,2004

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