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NSAI Standards

Irish Standard
I.S. EN 10243-2:2000

Steel die forgings - Tolerances on dimensions - Part 2: Upset forging made on horizontal forging machines

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I.S. EN 10243-2:2000

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10243-2:1999/AC

March 2005
Mars 2005
März 2005

ICS 77.140.85

English version
Version Française
Deutsche Fassung

Steel die forgings - Tolerances on dimensions - Part 2: Upset forging made on horizontal forging machines

Pièces forgées par estampage en acier - Tolérances dimensionelles - Partie 2: Pièces exécutées à chaud sur machines horizontales à forger

Gesenkschmiedeteile - Maßtoleranzen - Teil 2: Warm hergestellt in Waagerecht-Stauchmaschinen

This corrigendum becomes effective on 2 March 2005 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 2 mars 2005 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 2.März 2005 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No.:EN 10243-2:1999/AC:2005 D/E/F

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English version

In Table 4, last row, third column, “***d***” shall be added as follows: “0,7 ***d***”.

Version française

Dans le Tableau 4, dernière ligne, troisième colonne, il faut ajouter “***d***” comme suit: “0,7 ***d***”.

Deutsche Fassung

In der Tabelle 4, letzten Linie, dritten Spalte, ist “***d***” wie folgt hinzuzufügen: “0,7 ***d***”.

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I.S. EN 10243-2:2000

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10243-2

September 1999

ICS 77.140.85

English version

Steel die forgings - Tolerances on dimensions - Part 2: Upset forging made on horizontal forging machines

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Gesenkschmiedeteile - Maßtoleranzen - Teil 2: Warm hergestellt in Waagrecht-Stauchmaschinen

This European Standard was approved by CEN on 22 August 1999.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 28 “Steel forgings”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2000, and conflicting national standards shall be withdrawn at the latest by March 2000.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

1.1 This European Standard specifies the dimensional tolerances for steel upset forgings made on horizontal forging machines.

The second part of this European Standard applies to hot upset forgings, in the delivery condition, made in carbon and alloy steels. The tolerances specified apply to forgings not exceeding 250 kg in mass or 2 500 mm maximum dimension. Tolerances for heavier or layer forgings are subjected to negociation.

This European Standard does not apply to steel drop and press forgings (see prEN 10243-1).

1.2 For forgings produced in horizontal forging machines forging grade F tolerances only are provided. This tolerance grade provides an adequate standard of accuracy for the majority of applications and is capable of being complied with by commonly used forging equipment and production methods.

The tables showing dimensional tolerances are based on the R20 series of preferred numbers (see ISO 3).

The annex A gives for information some examples of application of these tolerances for different types of closed die forgings.

1.3 Any occasional instances may necessitate the use of tolerances wider than those indicated, e.g. specially complicated designs ; steels having particularly difficult forging characteristics. In such cases these standard tolerances can form only a basis on which to agree modifications appropriate to the particular circumstances.

1.4 This European Standard does not include ranges of special tolerances closer than grade F. Consideration of special tolerances whilst frequently encountered, are highly individual, and vary widely. They are best dealt with by consultation at the design stage and shall be agreed between the purchaser and the supplier. This approach will ensure that optimum use is made of the forging process in fulfilling the purchaser's special requirements at the lowest additional cost.

2 Normative references

This European 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 publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 3	Preferred numbers - Series of preferred numbers
ISO 8015	Technical drawings - Fundamental tolerancing principle

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