

**Open die steel forgings for general
engineering purposes - Part 1: General
requirements**

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purposes - Part 1: General requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10250-1:2000 sisaldab Euroopa standardi EN 10250-1:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10250-1:2000 consists of the English text of the European standard EN 10250-1:1999.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of EN 10250 specifies the general technical delivery conditions for open die forgings, forged bars, and products pre-forged and finished in ring rolling mills, for general engineering purposes.</p>	<p>Scope: This part of EN 10250 specifies the general technical delivery conditions for open die forgings, forged bars, and products pre-forged and finished in ring rolling mills, for general engineering purposes.</p>
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Võtmesõnad:

Hinnagrupp J

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English version

**Open die steel forgings for general engineering purposes
Part 1: General requirements**

Pièces forgées en acier pour usage
général – Partie 1: Exigences
générales

Freiformschmiedestücke aus Stahl für
allgemeine Verwendung – Teil 1:
Allgemeine Anforderungen

This European Standard was approved by CEN on 1999-07-16.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 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.

The titles of the other Parts of this European Standard are:

Part 2 : Non-alloy quality and special steels

Part 3 : Alloy special steels

Part 4 : Stainless steels

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.

1 Scope

This Part of this European Standard specifies the general technical delivery conditions for open die forgings, forged bars, and products pre-forged and finished in ring rolling mills, for general engineering purposes.

General information on technical delivery conditions is given in EN 10021.

2 Normative references

This Part of EN 10250 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.

EN 287-1	Approval testing of welders. Fusion welding – Part 1: Steels
EN 288-1	Specification and qualification of welding procedures for metallic materials – Part 1: General rules for fusion welding
EN 288-2	Specification and qualification of welding procedures for metallic materials – Part 2: Welding procedure specification for arc welding
EN 288-3	Specification and qualification of welding procedures for metallic materials – Part 3: Welding procedure tests for the arc welding of steels
EN 10002-1	Metallic materials – Tensile testing – Part 1: Method of test
EN 10003-1	Metallic materials – Brinell hardness test – Part 1: Test method
EN 10020	Definition and classification of grades of steel
EN 10021	General technical delivery requirements for steel and iron products
EN 10027-1	Designation systems for steels – Part 1 : Steel names, principal symbols
EN 10027-2	Designation systems for steels – Part 2 : Numerical system
EN 10045-1	Metallic materials – Charpy impact test – Part 1: Test method
EN 10052	Vocabulary of heat treatment terms for ferrous products
EN 10079	Definition of steel products.
EN 10204	Metallic products - types of inspection documents

EN 10228-1	Non-destructive testing of steel forgings – Part 1: Magnetic particle inspection
EN 10228-2	Non-destructive testing of steel forgings – Part 2: Penetrant testing
EN 10228-3	Non-destructive testing of steel forgings – Part 3: Ultrasonic testing of ferritic or martensitic steel forgings
prEN 10228-4	Non-destructive testing of steel forgings – Part 4: Ultrasonic testing of austenitic and austenitic-ferritic stainless steel forgings
EN ISO 377	Steel and steel products – Location and preparation of samples and test pieces for mechanical testing (ISO 377:1997)
CR 10260	Designation systems for steels - Additional symbols
EN ISO 3651-2	Determination of resistance to intergranular corrosion of stainless steels – Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in media containing sulfuric acid (ISO 3651-2:1998)
CR 10261	ECISS Information Circular 11 - Iron and steel - Review of available methods of chemical analysis
prEN 10168	Iron and steel documents – Inspection documents – Contents

3 Definitions

For the purposes of this Part of this European Standard the following definition applies in addition to the definitions in EN 10020, EN 10021, EN 10052, EN 10079 and EN ISO 377.

3.1 batch: Forgings of similar dimensions from the same cast, made by the same forging procedure and from the same heat treatment charge. 'Similar dimensions' are to be taken as forgings having dimensions within $\pm 10\%$ of the equivalent thickness.

4 Classification and designation

4.1 Classification

The steels covered by this European Standard are classified as follows:

- Part 2: Non-alloy quality and special steels;
- Part 3: Alloy special steels;
- Part 4: Stainless steels