

# SVENSK STANDARD

## SS-EN ISO 128-20

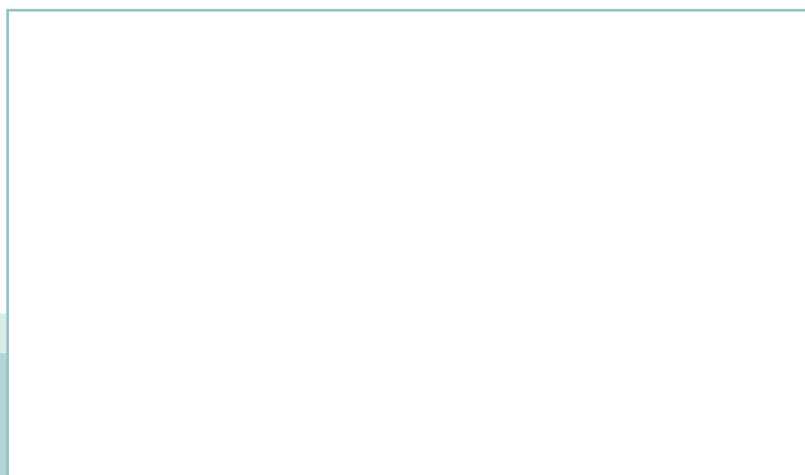


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### **Ritregler – Allmänna regler – Del 20: Linjer – Grundläggande krav (ISO 128-20:1996)**

### **Technical drawings – General principles of presentation – Part 20: Basic conventions for lines (ISO 128-20:1996)**



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Europastandarden EN ISO 128-20:2001 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 128-20:2001.

Denna standard ersätter SS-ISO 128-20, utgåva 1.

The European Standard EN ISO 128-20:2001 has the status of a Swedish Standard. This document contains the official English version of EN ISO 128-20:2001.

This standard supersedes the Swedish Standard SS-ISO 128-20, edition 1.

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EUROPEAN STANDARD

**EN ISO 128-20**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2001

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ICS 01.100.01

English version

**Technical drawings - General principles of presentation - Part  
20: Basic conventions for lines (ISO 128-20:1996)**

Dessins techniques - Principes généraux de représentation  
- Partie 20: Conventions de base pour les traits (ISO 128-  
20:1996)

This European Standard was approved by CEN on 30 September 2001.

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 Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

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## Foreword

The text of the International Standard from Technical Committee ISO/TC 10 "Technical drawings, product definition and related documentation" of the International Organization for Standardization (ISO), the secretariat of which is held by CMC.

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 April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

**NOTE FROM CMC** The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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.

## Endorsement notice

The text of the International Standard ISO 128-20:1996 has been approved by CEN as a European Standard without any modification.

## **Introduction**

ISO 128-20 was prepared as ISO/DIS 12011-1.

ISO 128-20 contains generally applicable rules for the presentation of lines in all kinds of technical product documentation.

The application of lines within drawings of special technical fields varies considerably. Therefore rules of application are not given in this part of ISO 128.

Other International Standards containing rules for lines in specialized fields are listed in annex A.





# Technical drawings — General principles of presentation —

## Part 20: Basic conventions for lines

### 1 Scope

This part of ISO 128 establishes the types of lines, their designations and their configurations, as well as general rules for draughting of lines used in technical drawings, e.g. diagrams, plans or maps.

### 2 Definitions

For the purposes of this part of ISO 128, the following definitions apply.

**2.1 line:** Geometrical object, the length of which is more than half of the line width and which connects an origin with an end in any way, e.g. straight, curved, without or with interruptions.

#### NOTES

- 1 The origin and the end may coincide with one another, e.g. in the case of a line forming a circle.
- 2 A line, the length of which is less than or equal to half of the line width, is called a dot.
- 3 A test should be made in order to check the appearance of drawings intended to be microcopied or transferred by fax.
















**2.2 line element:** Single part of a non-continuous line, e.g. dots, dashes, which vary in length, and gaps.

**2.3 line segment:** Group of two or more different line elements which form a non-continuous line, e.g. long dash/gap/dot/gap/dot/gap.

### 3 Types of lines

#### 3.1 Basic types





**Table 1**

No.	Representation	Description
01		continuous line
02		dashed line
03		dashed spaced line
04		long dashed dotted line
05		long dashed double-dotted line
06		long dashed triplicate-dotted line
07		dotted line
08		long dashed short dashed line
09		long dashed double-short dashed line
10		dashed dotted line
11		double-dashed dotted line
12		dashed double-dotted line
13		double-dashed double-dotted line
14		dashed triplicate-dotted line
15		double-dashed triplicate-dotted line

### 3.2 Variations of the basic types of lines

Possible variations of the basic types of lines in accordance with table 1 are given in table 2.

Table 2

Representation	Description
	uniform wavy continuous line
	uniform spiral continuous line
	uniform zigzag continuous line
	freehand continuous line
<p>NOTE — Table 2 contains only variations of the basic type of line No. 01. Variations of the basic types Nos. 02 to 15 are possible and are presented in the same way.</p>	

### 3.3 Combinations of lines with the same length

#### 3.3.1 Arrangement of two or more lines parallel to each other

For examples see figure 1.

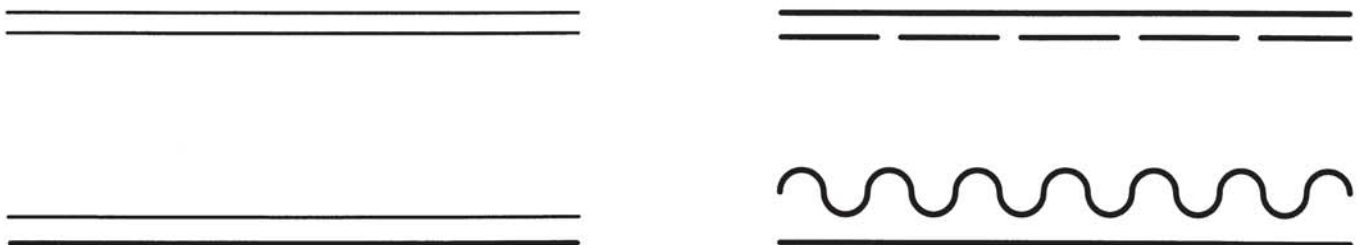


Figure 1