

SLOVENSKI STANDARD SIST ISO 2203:1995

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Technical drawings -- Conventional representation of gears

Dessins techniques -- Représentation conventionnelle des engrenages

Ta slovenski standard je istoveten z: ISO 2203:1973

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<u>ICS:</u>			
01.100	0.20 Konstrukcijske ris	sbe Mechanical engineerir drawings	ng
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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXCHAPOCHAS OPPAHUSALUS TO CTAHDAPTYSAUUS ORGANISATION INTERNATIONALE DE NORMALISATION

Technical drawings - Conventional representation of gears

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SIST ISO 2203:1995

FOREWORD

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Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2203 was drawn up by Technical Committee IEW ISO/TC 10, *Technical drawings*, and circulated to the Member Bodies in January 1971.

It has been approved by the Member Bodies of the following countries 995

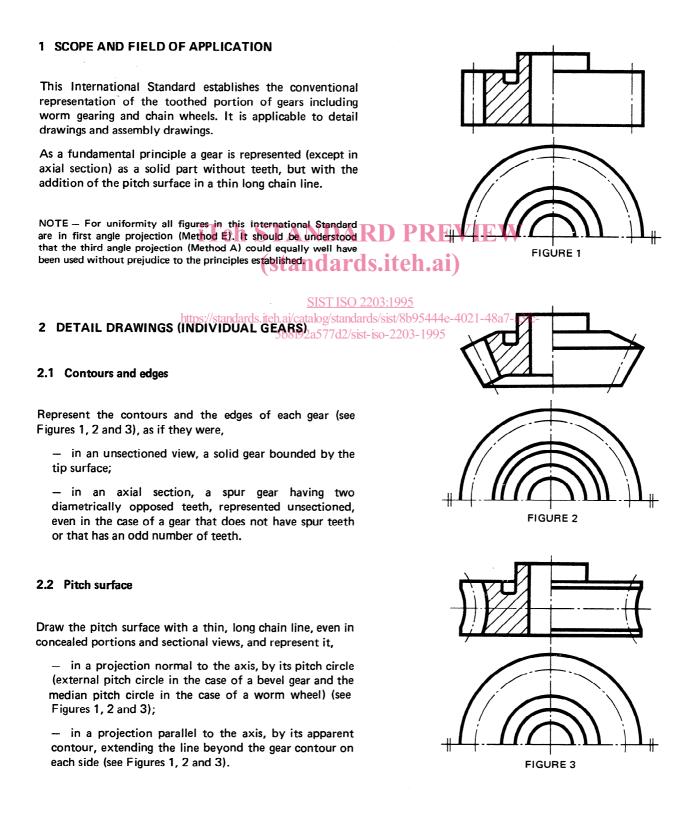
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No Member Body expressed disapproval of the document.

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Technical drawings – Conventional representation of gears



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2.4 Teeth

Specify the teeth profile either by reference to a standard

If it is essential to show one or two teeth on the drawing

itself (either to define the ends of a toothed portion or

rack, or in order to specify the position of the teeth in relation to a given axial plane), draw them as thick

or by a drawing to a suitable scale.

2.3 Root surface

As a general rule, do not represent the root surface except in sectional views.

However, if it seems helpful to show it also on unsectioned views, always draw it, in this case, as a thin continuous line (see Figures 4, 5 and 6).

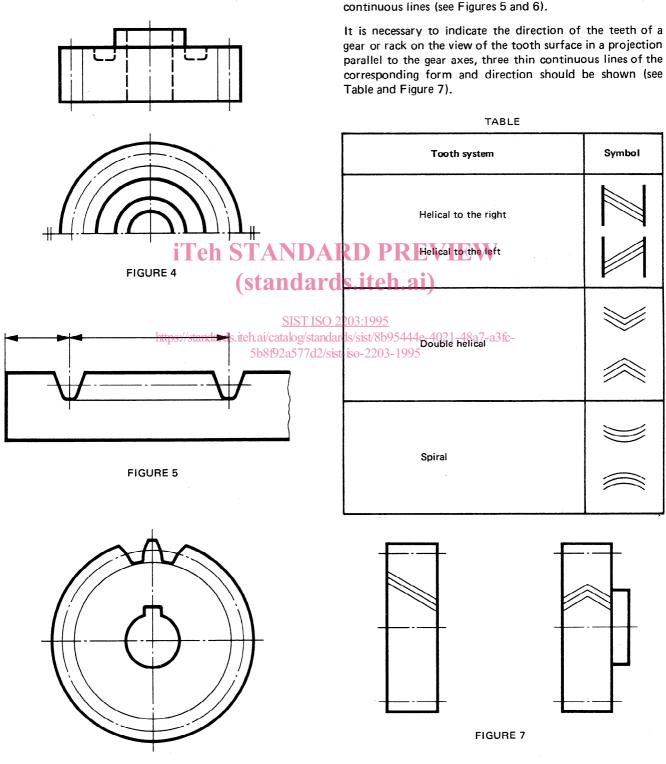


FIGURE 6

NOTE – If mating gears are represented, the direction of the teeth should be shown on one gear only.

3 ASSEMBLY DRAWINGS (GEAR PAIRS)

The specified rules for the representation of gears on detail drawings are equally applicable to assembly drawings. However, for a pair of bevel gears in projection parallel to the axis, extend the line drawn for the pitch surface to the point where the axes meet (see Figures 9 and 10).

Neither of the two gears of a gear pair is assumed to be hidden by the other in the portion in mesh (see Figure 8), except in the following two cases :

1) if one of the gears, the whole of which is located in front of the other, effectively conceals part of it (see Figures 9, 10 and 11);

2) if both gears are represented in axial section, in which case one of the two gears, chosen arbitrarily, is assumed to be partly concealed by the other (see Figure 9).

In these two cases, concealed contour edges need not be represented if they are not essential to the clarity of the drawing (see Figures 9 and 10).

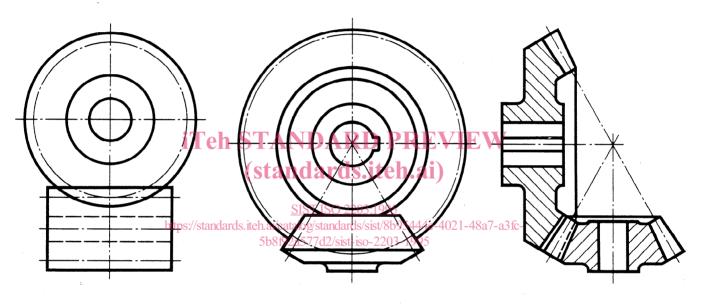
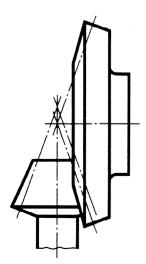
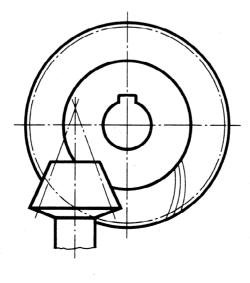


FIGURE 8

FIGURE 9





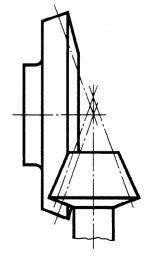
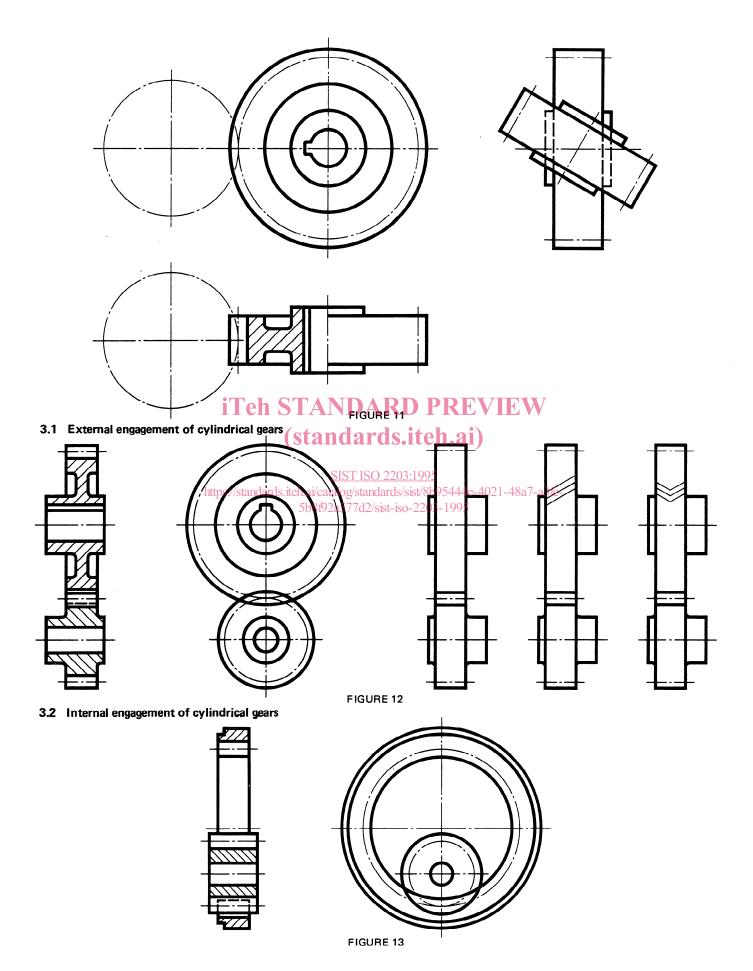
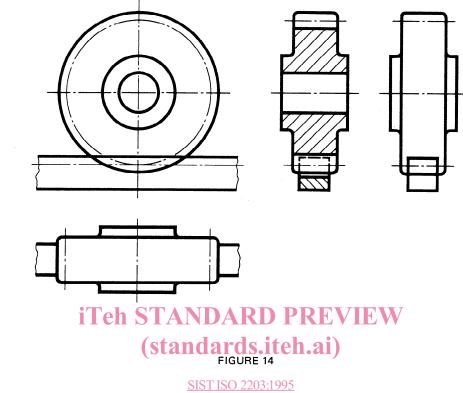


FIGURE 10

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3.3 Engagement of pinion with rack



https://standards.iteh.ai/catalog/standards/sist/8b95444e-4021-48a7-a3fc-3.4 Engagement of bevel gears, axis intersection at any anglest-iso-2203-1995

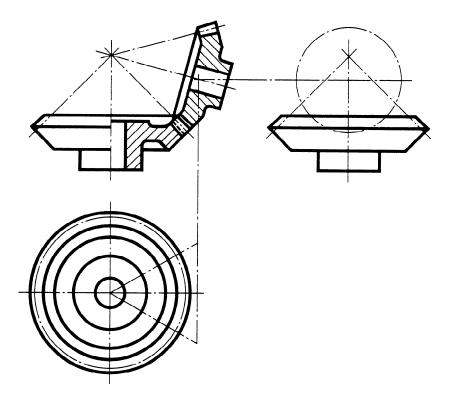


FIGURE 15