
INTERNATIONAL STANDARD



1341

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Straight bevel gears — Information to be given to the manufacturer by the purchaser in order to obtain the gear required

Engrenages coniques — Indications à fournir au tailleur d'engrenages par le client pour obtenir la denture désirée

First edition — 1976-08-01

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UDC 621.833.2 : 658.74

Ref. No. ISO 1341-1976 (E)

Descriptors : gears, bevel gears, engineering drawings, specifications.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 60 has reviewed ISO Recommendation R 1341 and found it technically suitable for transformation. International Standard ISO 1341 therefore replaces ISO Recommendation R 1341-1971 to which it is technically identical.

ISO Recommendation R 1341 was approved by the Member Bodies of the following countries :

Australia	India	Spain
Austria	Israel	Sweden
Belgium	Italy	Switzerland
Chile	Japan	Thailand
Czechoslovakia	Korea, Rep. of	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	New Zealand	U.S.S.R.
France	Paraguay	Yugoslavia
Germany	Poland	
Greece	South Africa, Rep. of	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

Hungary

The Member Body of the following country disapproved the transformation of ISO/R 1341 into an International Standard :

Germany

Straight bevel gears – Information to be given to the manufacturer by the purchaser in order to obtain the gear required

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the information which should be stated on all straight bevel gear drawings. For each particular case they should be completed by such information as may be necessary or useful.

2 REFERENCES

ISO/R 468, *Surface roughness*.

ISO 677, *Basic rack of straight bevel gears for general engineering and heavy engineering*.

ISO 1302, *Technical drawings – Method of indicating surface texture on drawings*.

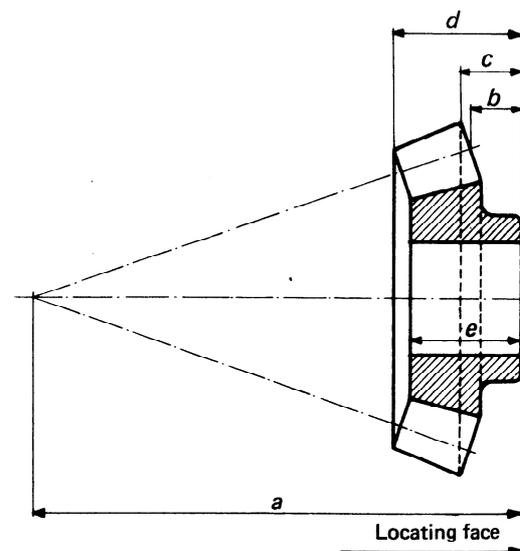
ISO 2203, *Technical drawings – Conventional representation of gears*.

ISO . . ., *Conical gears – ISO system of accuracy*.¹⁾

3 GENERAL DIMENSIONS AND CHARACTERISTICS TO BE INDICATED ON THE DRAWING

- Tip diameter and tolerance
- Facewidth
- Tip angle
- Angle of the back cone (and, if applicable, inner cone)
- Bore diameter and tolerance (or diameter and tolerance for the part of the shaft used for the setting on the cutting machine)
- Locating face(s)

- Distance to the locating face :
 - a : from the pitch cone apex (locating distance) and tolerance
 - b : from the pitch circle
 - c : from the tip circle of the tip cone (tip distance) and tolerance
 - d : from the tip circle of the inner cone
 - e : from the inner face
- Surface finish of the tooth flank surfaces and, if applicable, of the root surface and of the fillets²⁾



1) In preparation.

2) Specifications concerning surface texture and the symbols used should be in accordance with ISO/R 468 and ISO 1302.