

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION

### R 1341

STRAIGHT BEVEL GEARS

INFORMATION TO BE GIVEN TO THE MANUFACTURER  
BY THE PURCHASER IN ORDER TO OBTAIN THE GEAR REQUIRED

1st EDITION

October 1971

COPYRIGHT RESERVED

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

## BRIEF HISTORY

The ISO Recommendation R 1341, *Straight bevel gears – Information to be given to the manufacturer by the purchaser in order to obtain the gear required*, was drawn up by Technical Committee ISO/TC 60, *Gears*, the Secretariat of which is held by the Institut Belge de Normalisation (IBN).

Work on this question led to the adoption of Draft ISO Recommendation No. 1341, which was circulated to all the ISO Member Bodies for enquiry in November 1967.

The Draft has been approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

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

The following Member Body opposed the approval of the Draft :

Hungary

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

STRAIGHT BEVEL GEARS

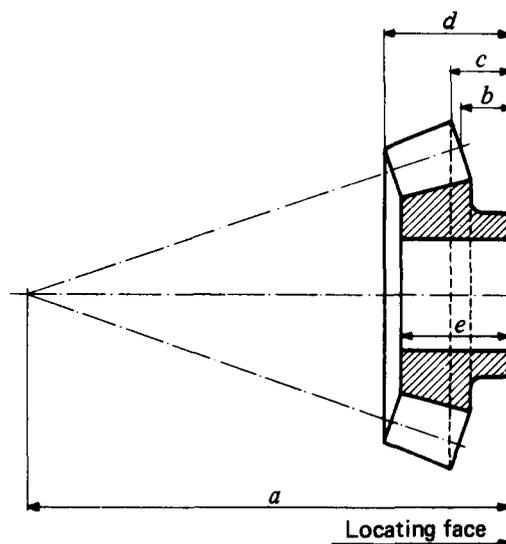
INFORMATION TO BE GIVEN TO THE MANUFACTURER  
BY THE PURCHASER IN ORDER TO OBTAIN THE GEAR REQUIRED

1. SCOPE

This ISO Recommendation 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. 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 root cone
  - $e$  : from the inner face
- Surface finish of the tooth flank surfaces and, if applicable, of the root surface and of the fillets\*



\* Specifications concerning surface texture and the symbols used should be in accordance with ISO Recommendations R 468, *Surface roughness*, and R 1302, *Technical drawings - Method of indicating surface texture on drawings*.