

TECHNICAL REPORT

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Cylindrical gears — Code of inspection practice —

Part 3:

Recommendations relative to gear blanks,
shaft centre distance and parallelism of axes

Engrenages cylindriques — Code pratique de réception —

*Partie 3: Recommandations relatives aux roues brutes, à l'entraxe et au
parallélisme des axes*



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Contents

	Page
Introduction	iv
1 Scope	1
2 References	1
3 Symbols and definitions	1
4 Accuracy of gear blanks	2
5 Centre distance and parallelism of axes	6
Annex	
A Bibliography	9

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is a future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 10064-3, which is a Technical Report of type 3, was prepared by Technical Committee ISO/TC 60, *Gears*.

ISO 10064 consists of the following parts, under the general title *Cylindrical gears - Code of inspection practice*:

- *Part 1: Inspection of corresponding flanks of gear teeth*
- *Part 2: Inspection related to radial composite deviations, runout, tooth thickness and backlash*
- *Part 3: Recommendations relative to gear blanks, shaft centre distance and parallelism of axes*
- *Part 4: Recommendations relative to surface roughness and tooth contact pattern checking.*

Annex A of this part of ISO 10064 is for information only.

Introduction

In the course of revising ISO 1328:1975, it was agreed that the descriptions and numerical values relative to the inspection of gear blanks, shaft centre distance and parallelism of axes should be published under separate cover as a Technical Report, type 3. For the general replacement of ISO 1328:1975, a system of documents as listed in clause 2 (References) and annex A (Bibliography) together with this Technical Report, has been established.

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Cylindrical gears - Code of inspection practice

Part 3: Recommendations relative to gear blanks, shaft centre distance and parallelism of axes

1 Scope

This technical report provides recommended values for dimensional deviations on blanks, centre distance and parallelism of axes of gears.

Numerical values given in this document are not to be regarded as strict ISO quality criteria, but may serve as a guide for mutual agreements, for steel or iron components.

2 References

The following standards contain provisions which are referenced in the text of this International Technical Report. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated.

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|-----------------|--|
| ISO 53: 1974 | <i>Cylindrical gears for general and heavy engineering - Basic rack.</i> |
| ISO 54: 1996 | <i>Cylindrical gears for general engineering and for heavy engineering - Modules.</i> |
| ISO 286-1:1988 | <i>ISO system of limits and fits - Part 1: Bases of tolerances, deviations and fits.</i> |
| ISO 1328-1:1995 | <i>Cylindrical gears - ISO System of accuracy - Definitions and allowable values of deviations relevant to corresponding flanks of gear teeth.</i> |
| ISO 1328-2:1996 | <i>Cylindrical gears - ISO System of accuracy - Definitions and allowable values of deviations relevant to radial composite deviations and runout information.</i> |

3 Symbols and definitions

3.1 Symbols

Symbols used for deviations of individual element measurements are composed of lower case letters, such as “*f*”, with subscripts, whereas symbols used for “total” deviations, which may represent combinations of several individual element deviations are composed of capital letters, such as “*F*”, also with subscripts, see table 1.