

This is a preview of "ISO 3290-1:2014". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2014-09-01

Rolling bearings — Balls —

Part 1: Steel balls

Roulements — Billes —

Partie 1: Billes de roulement en acier



Reference number
ISO 3290-1:2014(E)

© ISO 2014

This is a preview of "ISO 3290-1:2014". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 3290-1:2014". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	4
5 Requirements	4
5.1 Ball size.....	4
5.2 Quality of geometry and surface.....	4
5.3 Sorting accuracy and ball gauges.....	5
5.4 Hardness.....	5
6 Dimensions and tolerances	5
6.1 General.....	5
6.2 Shortened formats for nominal diameter identification.....	5
Annex A (normative) Method for assessment of deviation from spherical form	11
Annex B (normative) Illustration of ball gauges and sorting principles	12
Bibliography	14

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 procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword – Supplementary information.

The committee responsible for this document is ISO/TC 4, *Rolling bearings*, Subcommittee SC 12, *Ball bearings*.

This second edition cancels and replaces the first edition (ISO 3290-1:2008), which has been technically revised. It also incorporates Technical Corrigendum ISO 3290-1:2008/Cor.1:2009. In particular, "material", specified in [Clause 6](#) of the first edition, has been deleted.

ISO 3290 consists of the following parts, under the general title *Rolling bearings — Balls*:

- *Part 1: Steel balls*
- *Part 2: Ceramic balls*