ICS 21.100.20

J 11



OF CHINA

中华人民共和国国家标准

GB/T 308.1-2013

Replace GB/T 308-2002

Rolling bearings—Balls—Part 1: Steel balls

滚动轴承 球

第1部分:钢球

(ISO 3290-1: 2008, NEQ)

Issued on September 18, 2013

Implemented on June 01, 2014

Issued by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China

> Standardization Administration of the People's Republic of China

> > 1

Foreword	1
1 Scope	3
2 Normative references	3
3 Terms and definitions	4
4 Symbols	7
5 Size	8
6 Technical requirements	10
7 Measurement and inspection method	15
8 Inspection regulation	15
9 Marking	15
10 Packaging and storing	16
Annex A (Informative) Illustration of ball gauge and sorting principles	18
Annex B (Informative) Crush load value for finished ball of high-carbon c	hromium
steel	20
Annex C (Informative) Assessment method of roundness error	22
Annex D (Informative) The comparison of nominal ball diameter and the	rounded
nominal diameter	23

Contents

Foreword

GB/T 308 "Rolling bearings balls" includes two parts:

--Part 1:steel balls.

--Part 2: ceramic balls.

This part is the first part of GB/T 308.

This parts is drafted according to specification of GB/T 1.1 - 2009.

This parts will replace GB/T 308-2002 "rolling bearings steel balls". Compared with GB/T

308 - 2002, the main technical changes are as follows:

--The standard title is amended (see cover and the first page in this edition as well as that in 2002 edition);

--The scope is amended (see chapter 1 in this edition and that in 2002 edition);

--Parts of informative references are amended (see chapter 2 in this edition and that in 2002 edition);

--Parts of terms and definitions are added and amended (see chapter 3 in this edition and that in 2002 edition);

--"Symbols" is edited as a separate chapter (see chapter 4 in this edition and chapter 3 in 20002 edition)

-- Decimal places of nominal ball diameter is amended (see table 1 in this edition and that in 2002 edition);

--Parts of content concerning material and heat treatment, harness as well as crush load are added (see sub-clause 6.1 and 6.2);

--Appearance and surface defect is amended (see sub-clause 6.4 in this edition and sub-clause in 2002 edition);

--Measurements method of surface roughness is amended (see sub-clause 7.3 in this edition and that in 2002 edition);

--Inspection regulations of finished balls are amended (see chapter 8 in this edition and that in 2002 edition);

--Marking content and examples are amended (see sub-clause 9.1, 9.3 in this edition and sub-clause 6.1, 6.3 in 2002 edition);

--Deviation from spherical form assessment method is moved from annex B to annex C

1

(see annex C in this edition and annex B in 2002 edition)

--Comparison between nominal ball diameter and rounded nominal ball diameter is added (see annex D);

This part is drafted afresh with ISO 3290-1:2008" *Rolling bearings balls part 1: steel balls*" as reference. It is not equivalent to ISO 3290-1:2008.

This standard is proposed by China Machinery Industry Federation.

This national standard is under the jurisdiction of National Rolling Bearings

Standardization Committee (SAC/TC 98).

Drafting units of this standard: Luoyang Bearing Research Institute Co., Ltd, Luoyang Bearing Science& Technology Co.,Ltd, Shandong Donge Steel Ball Group Co.,Itd and Jiangsu LiXing General Steel Ball Co.,Ltd.

Main drafters of this standard: Ma Suqing, Zhang Yongqian, Yang Yong, Sha Xiaojian and Ma Lin.

Previous versions that this standard replaces are as follows:

- - GB 308 - 1964,GB 308 - 1977, GB 308 - 1984,GB/T 308 - 1989.GB/T 308 - 2002.

Rolling bearings-Balls Part 1: Steel balls

1 Scope

This part of GB/T 308 specifies the size, technical requirements, marking, measurements and inspection method, inspection regulation as well as packaging and storing. This part is applicable to rolling bearings accessory and commercial balls.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 3086-2008 High carbon chromium stainless bearing steels

GB/T 4199-2003 Rolling bearings—Tolerances—Definitions (ISO 1132-1: 2000, Rolling

bearings—Tolerances—Part 1: Terms and definitions, MOD)

GB/T 6930-2002 Rolling bearings-Vocabulary (ISO 5593: 1997,IDT)

GB/T 7234-2004 Geometrical Product Specifications (GPS)-- Measurement of roundness

--Terms, definitions and parameters of roundness

GB/T 7235-2004 Geometrical Product Specifications(GPS)--Methods for the assessment of departure from roundness--Measurement of variations in radius

GB/T 7811-2007 Rolling bearings—Symbols for quantities (ISO 15241: 2001, IDT)

GB/T 8597-2013 Rolling bearings—Rust proof packaging

GB/T 18254-2002 High-carbon chromium bearing steel

GB/T 18579-2001 High-carbon chromium bearing steel wires

GB/T 24606-2009 Rolling bearings—Non-destructive testing—Magnetic particle testing

GB/T 24608-2009Inspection rules for rolling bearings and commercial parts

JB/T 1255 Specification for heat-treatment of rolling bearing parts made from high carbon chromium steel

JB/T 1460-2011 Rolling bearings – Bearing parts made from high-carbon chromium stainless steel – Specifications for heat-treatment



北京文心雕语翻译有限公司 Beijing Lancarver Translation Inc.

完整版本请在线下单/Order Checks Online for Full version

联系我们/or Contact:

TEL: 400-678-1309

QQ: 19315219 | Skype: Lancarver

Email: info@lancarver.com

http://www.lancarver.com

线下付款方式:

I. 对公账户:

单位名称:北京文心雕语翻译有限公司

开户行:中国工商银行北京学清路支行

账 号: 0200 1486 0900 0006 131

II. 支付宝账户 : info@lancarver.com

III. Paypal: info@lancarver.com

注: 付款成功后,请预留电邮,完整版本将在一个工作日内通过电子 PDF 或

Word 形式发送至您的预留邮箱,如需索取发票,下单成功后的三个工作日内安

排开具并寄出,预祝合作愉快!

NOTE All documents on the store are in electronic Adobe Acrobat PDF format, there is not sell or ship documents in hard copy. Mail the order and payment information to <u>info@lancarver.com</u>, you will shortly receive an e-mail confirming your order.

