

Second edition
2008-11-15

AMENDMENT 1
2013-09-15

Rolling bearings — Tapered roller bearings — Designation system

AMENDMENT 1: Design variant designation and comparison of tolerance class designations for single-row tapered roller bearings

Roulements — Roulements à rouleaux coniques — Système de désignation

AMENDEMENT 1: Désignation de la variante de conception et comparaison des désignations de la classe de tolérance pour les roulements à rouleaux coniques à une rangée



Reference number
ISO 10317:2008/Amd.1:2013(E)

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Published in Switzerland

Foreword

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The committee responsible for this document is ISO/TC 4, *Rolling bearings*, Subcommittee SC 9, *Tapered roller bearings*.

Rolling bearings — Tapered roller bearings — Designation system

AMENDMENT 1: Design variant designation and comparison of tolerance class designations for single-row tapered roller bearings

Page 4, Clause 9, Table 2

Replace Table 2 with the following new table:

Table 2 — Design variant designation

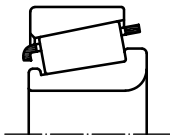
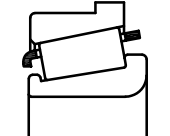
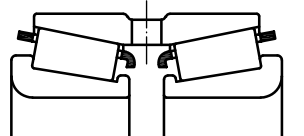
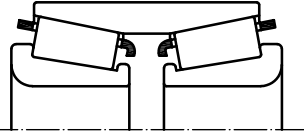
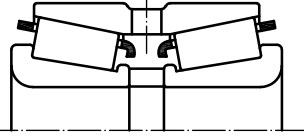
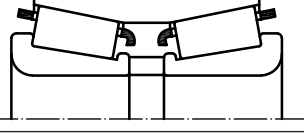
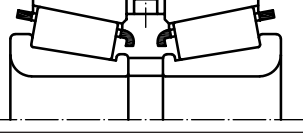
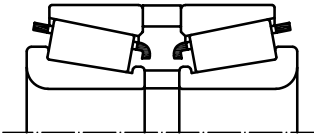
Symbol	Designated item	
None	Single-row bearing	
R	Single-row bearing with flanged outer ring	
DZ	Double-row bearing comprising two single inner subunits and a double outer ring with lubrication groove and holes	
DZU	Double-row bearing comprising two single inner subunits and a double outer ring without lubrication groove and/or holes	
Da	Double-row bearing comprising two single inner subunits, an inner ring spacer and a double outer ring with lubrication groove and holes	
DU ^a	Double-row bearing comprising two single inner subunits, an inner ring spacer and a double outer ring without lubrication groove and/or holes	
DB	Back-to-back matched pair of tapered roller bearings comprising two single-row bearings, an inner ring spacer and an outer ring spacer with lubrication groove and holes	

Table 2 (continued)

Symbol	Designated item	
DBU	Back-to-back matched pair of tapered roller bearings comprising two single-row bearings, an inner ring spacer and an outer ring spacer without lubrication groove and/or holes	
<p>^a To be used with the prefix L for a separate double outer ring. Double outer rings for D and DU are common to those for DZ and DZU, respectively.</p>		

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Add the following new Annex A following Clause 12.

Annex A (informative)

Comparison of tolerance class designations for single-row tapered roller bearings

This annex gives a comparison table of alternative tolerance class designations for single-row tapered roller bearings as defined in ISO 492.

Tolerances for double-row bearings are not defined in ISO 492. For this reason, it is not possible to apply the comparison table to double-row tapered roller bearings.

Table A.1 shows the relationship between the ISO tolerance classes of ISO 492 and tolerance class designations as given in Table 3 (of this International Standard), as well as the tolerance class designations as given in ANSI/ABMA 19.1.

Table A.1 — Tolerance class designation for single-row tapered roller bearings

Symbol in this International Standard (ISO 10317) ^a	Tolerance class in accordance with ISO 492 ^b	ANSI/ABMA 19.1 letter symbol
None	Normal class	K
/P6X	Class 6X	N
/P5	Class 5	C
/P4	Class 4	B
/P2	Class 2	A
^a	"/" may be omitted.	
^b	The tolerances of double-row bearing are not specified in ISO 492.	

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Add the following new Bibliography following new Annex A:

Bibliography

- [1] ANSI/ABMA 19.1, *Tapered Roller Bearings — Radial — Metric Design*

