EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 286-1:2010/AC

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August 2013

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English version
Version Française
Deutsche Fassung

Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes - Part 1: Basis of tolerances, deviations and fits - Technical Corrigendum 1 (ISO 286-1:2010/Cor 1:2013)

Spécification géométrique des produits (GPS) - Système de codification ISO pour les tolérances sur les tailles linéaires - Partie 1: Base des tolérances, écarts et ajustements - Rectificatif technique 1 (ISO 286-1:2010/Cor 1:2013)

Geometrische Produktspezifikation (GPS) - ISO-Toleranzsystem für Längenmaße - Teil 1: Grundlagen für Toleranzen, Abmaße und Passungen (ISO 286-1:2010/Cor 1:2013)

This corrigendum becomes effective on 7 August 2013 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 7 août 2013 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 7. August 2013 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No.:EN ISO 286-1:2010/AC:2013 D/E/F

Foreword

This document (EN ISO 286-1:2010/AC:2013) has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" in collaboration with Technical Committee CEN/TC 290 “Dimensional and geometrical product specification and verification” the secretariat of which is held by AFNOR.

Endorsement notice

The text of ISO 286-1:2010/Cor 1:2013 has been approved by CEN as EN ISO 286-1:2010/AC:2013 without any modification.

INTERNATIONAL STANDARD ISO 286-1:2010
TECHNICAL CORRIGENDUM 1

Published 2013-08-01

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Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes —

Part 1: Basis of tolerances, deviations and fits

TECHNICAL CORRIGENDUM 1

Spécification géométrique des produits (GPS) — Système de codification ISO pour les tolérances sur les tailles linéaires —

Partie 1: Base des tolérances, écarts et ajustements

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 286-1:2010 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verifications*.

Page 1, Normative references

Replace the reference to ISO 286-2:— with the following:

> ISO 286-2:2010, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts*

Delete the reference to Footnote 1) and the footnote “To be published. (Revision of ISO 286-2:1988)".

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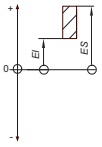
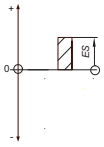
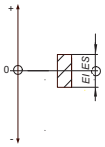
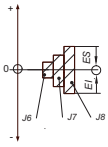
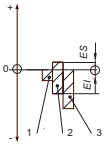
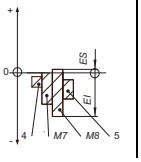
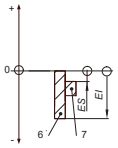
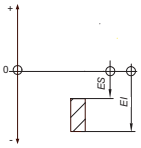
Page 16, 4.3.2.4, Example 3

Replace title by:

Toleranced size for a hole 28 P9 Ⓔ

Page 18, Figure 8

Replace Figure 8 by the following.

Limit deviation							
A to G	**H**	**JS**	**J**	**K**	**M**	**N**	**P to ZC**
							
ES = *EI* + IT	*ES* = 0 + IT	*ES* =+IT/2	*ES* > 0 (see Table 2)	*ES* (see Table 2 and 3)			*ES* < 0 (see Table 3)
EI > 0 (see Table 2)	*EI* = 0	*EI* = - IT/2	*EI* = *ES* - IT				
NOTE 1 IT, see Table 1.							
NOTE 2 The represented tolerance intervals correspond approximately to a nominal size range of above 10 mm up to and including 18 mm.							

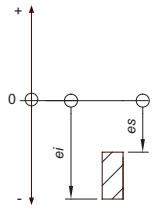
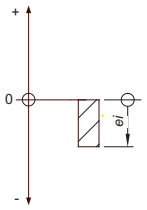
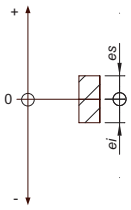
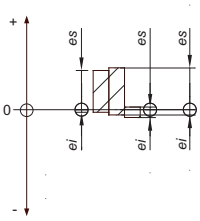
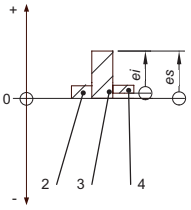
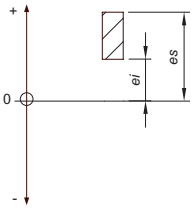
Key

1 K1 to K3, and also K4 to K8, for nominal size ≤ 3 mm
2 K4 to K8, for sizes for which 3 mm < nominal size ≤ 500 mm
3 K9 to K18, and also K4 to K8 for nominal size > 500 mm
4 M1 to M6
5 M9 to M18, and also M7 to M8 for nominal size > 500 mm
6 N1 to N8 and also N9 to N18 for sizes for which 1 mm < nominal size ≤ 3 mm, as well as nominal size > 500 mm
7 N9 to N18 for sizes for which 3 mm < nominal size ≤ 500 mm

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Page 19, Figure 9

Replace Figure 9 by the following.

Limit deviation					
a to g	h	js	j	k	m to z
					
es < 0 (see Table 4) $ei = es$ - IT	es = 0 ei = 0 – IT	es = + IT/2 ei = - IT/2	$es = ei$ + IT ei < 0 (see Table 4)	$es = ei$ + IT ei = 0 or > 0 (see Table 5)	$es = ei$ + IT ei > 0 (see Table 5)
NOTE 1 IT, see Table 1. NOTE 2 The represented tolerance intervals correspond approximately to a nominal size range of above 10 mm up to and including 18 mm.					

Key
1 j5, j6
2 k1 to k3, and also k4 to k7 for nominal size ≤ 3 mm
3 k4 to k7 for sizes where 3 mm < nominal size ≤ 500 mm
4 k8 to k18, and also k4 to k7 for sizes > 500 mm

Page 22, Table 3

Move the last two rows in Table 3, to Table 3 (*continued*) on page 23.

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Page 23, Table 3 (continued)

Replace Table 3 (*continued*) by the following.

Nominal size mm		Fundamental deviation values Upper limit deviation, ES							
Above	Up to and including	Up to and including IT8	Above IT8	Up to and including IT7	Standard tolerance grades above IT7				
		N[a,b]		P to ZC[a]	P	R	S	T	U
500	560	−44		Values as for standard tolerance grades above IT7 increased by Δ	−78	−150	−280	−400	−600
560	630					−155	−310	−450	−660
630	710	−50			−88	−175	−340	−500	−740
710	800					−185	−380	−560	−840
800	900	−56			−100	−210	−430	−620	−940
900	1 000					−220	−470	−680	−1 050
1 000	1 120	−66			−120	−250	−520	−780	−1 150
1 120	1 250					−260	−580	−840	−1 300
1 250	1 400	−78			−140	−300	−640	−960	−1 450
1 400	1 600					−330	−720	−1 050	−1 600
1 600	1 800	−92			−170	−370	−820	−1 200	−1 850
1 800	2 000					−400	−920	−1 350	−2 000
2 000	2 240	−110			−195	−440	−1 000	−1 500	−2 300
2 240	2 500					−460	−1 100	−1 650	−2 500
2 500	2 800	−135			−240	−550	−1 250	−1 900	−2 900
2 800	3 150					−580	−1 400	−2 100	−3 200

a For determining the values N and P to ZC, see 4.3.2.5

b Fundamental deviations N for standard tolerance grades above IT8 shall not be used for nominal sizes ≤ 1 mm.

Page 24,Table 4

Replace value for upper limit deviation for tolerance grade ef for nominal size from 18 mm up to and including 30 mm to −28 (not −25) in Table 4.

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