

English version  
Version Française  
Deutsche Fassung

Geometrical Product Specifications (GPS) - Acceptance and reverification tests for coordinate measuring machines (CMM) - Part 6: Estimation of errors in computing Gaussian associated features (ISO 10360-6:2001/Cor 1:2007)

Spécification géométrique des produits (GPS) - Essai de réception et de vérification périodique des machines à mesurer tridimensionnelles (MMT) - Partie 6: Estimation des erreurs dans le calcul des éléments associés Gaussiens (ISO 10360-6:2001/Cor 1:2007)

Geometrische Produktspezifikation (GPS) - Annahmeprüfung und Bestätigungsprüfung für Koordinatenmessgeräte (KMG) - Teil 6: Abweichungsabschätzung beim Berechnen zugeordneter Geometrieelemente nach Gauß (ISO 10360-6:2001/Cor 1:2007)

This corrigendum becomes effective on 17 September 2008 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 17 septembre 2008 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 17. September 2008 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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**Endorsement notice**

The text of ISO 10360-6:2001/Cor.1:2007 has been approved by CEN as a European Corrigendum without any modification.



# Geometrical Product Specifications (GPS) — Acceptance and reverification tests for coordinate measuring machines (CMM) —

## Part 6: Estimation of errors in computing Gaussian associated features

### TECHNICAL CORRIGENDUM 1

*Spécification géométrique des produits (GPS) — Essai de réception et de vérification périodique des machines à mesurer tridimensionnelles (MMT) —*

*Partie 6: Estimation des erreurs dans le calcul des éléments associés gaussiens*

*RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to ISO 10360-6:2001 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

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Page 9

In the next to last row of Table 3, change  $r_1$  to  $r_2$ . In the last row of Table 3, change  $r_2$  to  $r_1$ .

Page 14, Annex A

In Table A.3, in the part of the table relating to cone, replace  $5 \leq \xi \leq \frac{1}{2 \tan \frac{\psi}{2}}$  with  $4 \leq \xi \leq \frac{1}{2 \tan \frac{\psi}{2}}$ .

Page 14, Annex A

In Table A.3, replace the Torus section with the following:

|       |        |                                                                                                                                                                                     |
|-------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Torus | —      | $\xi = r_2/r_1$                                                                                                                                                                     |
|       | FM, FI | $\frac{1}{10} \leq \xi \leq \frac{9}{10}$<br>$\pi \text{ rad} \leq \theta \leq 2\pi \text{ rad}$<br>$\frac{1}{2}\pi \text{ rad} \leq \phi \leq \frac{3}{2}\pi \text{ rad}$          |
|       | PM, PI | $\frac{1}{10} \leq \xi \leq \frac{9}{10}$<br>$\frac{\pi}{2} \text{ rad} \leq \theta \leq \pi \text{ rad}$<br>$\frac{3}{4}\pi \text{ rad} \leq \phi \leq \frac{5}{4}\pi \text{ rad}$ |

Page 15, Annex A

In the second sentence of the first paragraph of A.4, interchange  $10^{-4}$  with  $10^{-3}$ , to give the following:

“The maximum form deviation of the sampled points  $\zeta$  [see A.2, h] is  $10^{-3}$  for reference data set types (FM, PM) and  $10^{-4}$  for reference data set types (FI, PI), respectively, multiplied by the extent size.”

Page 15, Annex A

Replace the second paragraph of A.5 with the following:

“A nominal sampling point shall be generated at random in each subset and shall then be projected onto the deformed extent, normally to the nominal extent, by taking the same value(s) of the linear (1D) or real (2D) coordinate(s) of the nominal sampling points in the deformed extent.”

Page 16, Annex A

In Table A.5:

- 1) Change superscript <sup>b</sup> to <sup>c</sup> at the end of the specification for torus and at the bottom of the table.
- 2) Change superscript <sup>a</sup> to <sup>b</sup> at the end of the specification for cone and at the bottom of the table.
- 3) Add a superscript <sup>a</sup> to the end of the specification for the sphere and add a note to the bottom of Table A.5 with superscript <sup>a</sup> saying: “The use of the linear coordinate  $z$  instead of the angular  $(\theta, \varphi)$  avoids oversampling near the poles and provides patches of equal area.”

Page 17, Annex A

In Table A.6, replace 10 with: “The lesser of  $10 \mu\text{m}$  and the maximum form error size of the feature.”