# ERRATA
## ANSI/AGMA ISO 1328-1-B14
## July 2024

The following editorial corrections will be added to the next edition of ANSI/AGMA ISO 1328-1-B14, *Cylindrical Gears – ISO System of Flank Tolerance Classification – Part 1: Definitions and Allowable Values of Deviations Relevant to Flanks of Gear Teeth* (published September 2014).

The changes, discovered after publication, have been reviewed and approved by the Chairperson of the AGMA Accuracy and Nomenclature Committee.

## ERROR 1

**Discrepancy:** In Table 1, the following symbols are missing commas:

| Term | Symbol | Unit |
|---|---|---|
| Maximum length of tip relief | $L_{C\alpha a\,max}$ | mm |
| Maximum length of root relief | $L_{C\alpha f\,max}$ | mm |
| Minimum length of tip relief | $L_{C\alpha a\,min}$ | mm |
| Minimum length of root relief | $L_{C\alpha f\,min}$ | mm |

**Correction:** Add commas to the symbols as indicated below:

| Term | Symbol | Unit |
|---|---|---|
| Maximum length of tip relief | $L_{C\alpha a,max}$ | mm |
| Maximum length of root relief | $L_{C\alpha f,max}$ | mm |
| Minimum length of tip relief | $L_{C\alpha a,min}$ | mm |
| Minimum length of root relief | $L_{C\alpha f,min}$ | mm |

## ERROR 2

**Discrepancy:** In Table 2, the following symbols are missing commas:

| Symbol | Term | Unit |
|---|---|---|
| $L_{c\alpha a\,max}$ | Maximum length of tip relief | mm |
| $L_{c\alpha a\,min}$ | Minimum length of tip relief | mm |
| $L_{c\alpha f\,max}$ | Maximum length of root relief | mm |
| $L_{c\alpha f\,min}$ | Minimum length of root relief | mm |

**Correction:** Add commas to the symbols as indicated below:

| Symbol | Term | Unit |
|---|---|---|
| $L_{c\alpha,max}$ | Maximum length of tip relief | mm |
| $L_{c\alpha,min}$ | Minimum length of tip relief | mm |
| $L_{c\alpha f,max}$ | Maximum length of root relief | mm |
| $L_{c\alpha f,min}$ | Minimum length of root relief | mm |

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## ERROR 3

**Discrepancy:** In Formula 11, a subscript letter is incorrectly shown as "i" – see highlighted below.

Helix form tolerance, $f_{f\beta T}$, shall be calculated using Formula (11):

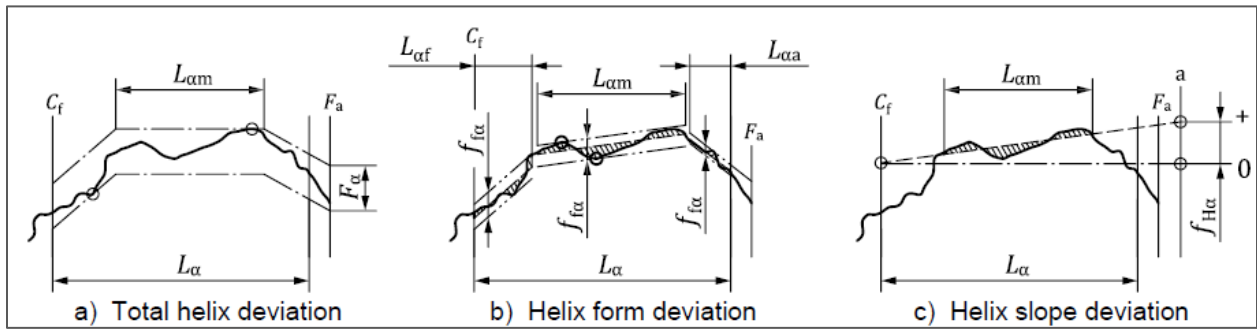$$f_{i\beta T} = \left(0.07\sqrt{d} + 0.45\sqrt{b} + 4\right)\left(\sqrt{2}\right)^{(A-5)}$$

**Correction:** The symbol for Helix form tolerance should be corrected from $f_{i\beta T}$ to $f_{f\beta T}$.

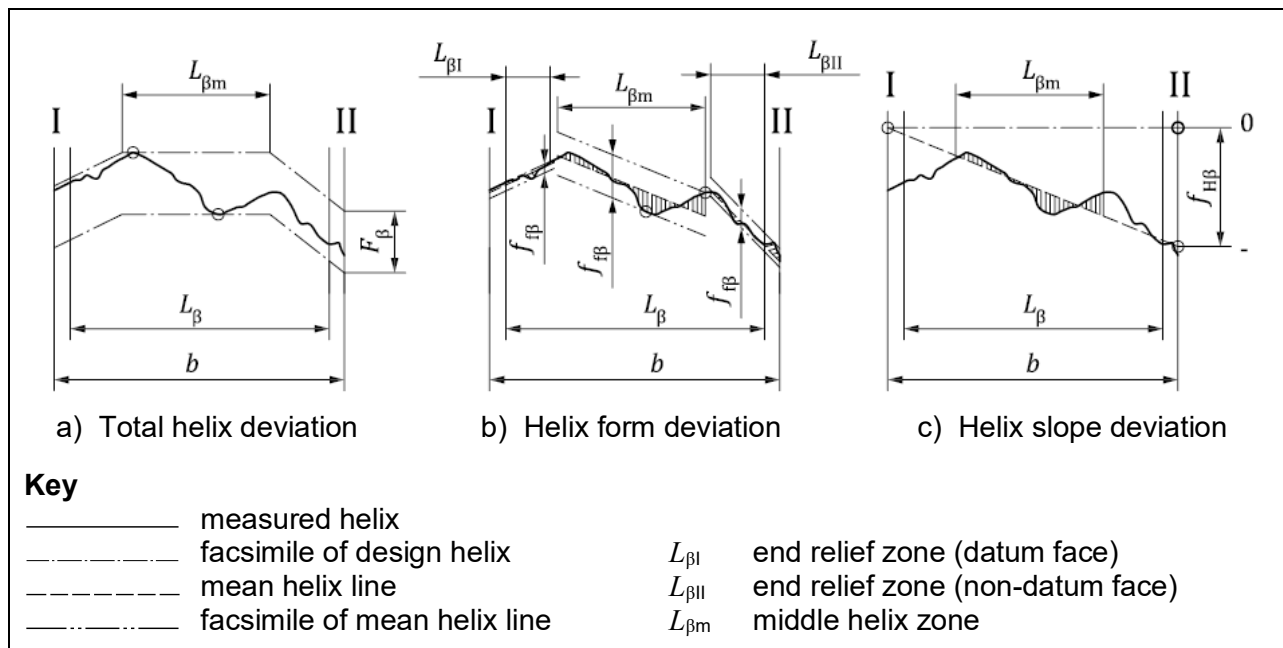Helix form tolerance, $f_{f\beta T}$, shall be calculated using Formula (11):

$$f_{f\beta T} = \left(0.07\sqrt{d} + 0.45\sqrt{b} + 4\right)\left(\sqrt{2}\right)^{(A-5)}$$

## ERROR 4

**Discrepancy:** Figure A.4 is the wrong graphic. Incorrect figure:



a) Total helix deviation
b) Helix form deviation
c) Helix slope deviation

**Correction:** Replace incorrect graphic with the following:



a) Total helix deviation
b) Helix form deviation
c) Helix slope deviation

**Key**

| | |
|---|---|
| —————— | measured helix |
| —·—·—·— | facsimile of design helix |
| —————— | mean helix line |
| —··—··— | facsimile of mean helix line |

$L_{\beta I}$    end relief zone (datum face)
$L_{\beta II}$    end relief zone (non-datum face)
$L_{\beta m}$    middle helix zone

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## ERROR 5

**Discrepancy:** In Formula D.1, the equal sign is incorrect and should be an "approximately equal to" sign.

$$k = \frac{z}{8}$$

**Correction:** Replace Formula D.1 with the following:

$$k \approx \frac{z}{8}$$

## ERROR 6

**Discrepancy:** In each of Formulas F.1, F.2, F.3, and F.5, there is not a comma after the "T" in the subscript:

$$f_{isT\,max} = f_{is\,(design)} + (0.375m_n + 5.0)(\sqrt{2})^{(A-5)} \tag{F.1}$$

$$f_{isT\,min} = f_{is\,(design)} - (0.375m_n + 5.0)(\sqrt{2})^{(A-5)}, \text{ or} \tag{F.2}$$

$$f_{isT\,min} = 0 \tag{F.3}$$

$$F_{isT} = F_{pT} + f_{isT\,max} \tag{F.5}$$

**Correction:** Replace Formulas F.1, F.2, F.3, and F.5 with the following:

$$f_{isT,max} = f_{is\,(design)} + (0.375m_n + 5.0)(\sqrt{2})^{(A-5)} \tag{F.1}$$

$$f_{isT,min} = f_{is\,(design)} - (0.375m_n + 5.0)(\sqrt{2})^{(A-5)}, \text{ or} \tag{F.2}$$

$$f_{isT,min} = 0 \tag{F.3}$$

$$F_{isT} = F_{pT} + f_{isT,max} \tag{F.5}$$

These changes will be included in the next revision of ANSI/AGMA ISO 1328-1-B14.