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Cycles — Stem and handlebar bend — Assembly dimensions

Cycles — Potence et cintre de guidon — Dimensions d'assemblage

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Foreword

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The committee responsible for this document is ISO/TC 149, *Cycles*.

This second edition cancels and replaces the first edition (ISO 6699:1990), which has been technically revised.

Cycles — Stem and handlebar bend — Assembly dimensions

1 Scope

This International Standard specifies the dimensions and tolerances to ensure secure assembly between the stem and the handlebar bend of a bicycle.

It applies to bicycles intended for use on public roads, and on which the saddle can be adjusted to provide a saddle height of 635 mm or more.

It does not apply to specialized types of bicycle such as tradesmen's delivery bicycles, tandems, toy bicycles and bicycles designed and equipped for use in sanctioned competitive events.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4210:2014, *Cycles — Safety requirements of bicycles*

3 Dimensions

3.1 External diameter and knurling width

The handlebar diameter, D , and the knurling width, w , at the stem interface shall be according to [Table 1](#) (see [Figure 1](#)).

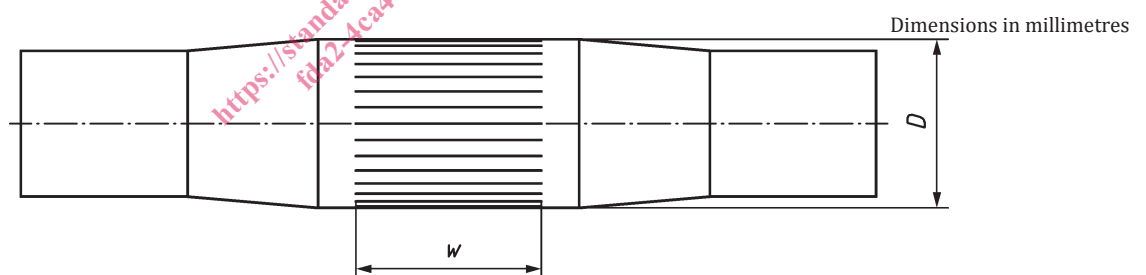


Figure 1 — Handlebar diameter

Table 1 — Dimensions and tolerances

Dimensions in millimetres

Handlebar knurling width (w)	Stem clamp diameter (d)
The knurling on handlebar shall be 3 mm shorter than the clamping area of the stem.	22,0 ^{0,25} ₋₀
	25,4 ^{0,25} ₋₀
	26,0 ^{0,25} ₋₀
	31,8 ^{0,25} ₋₀
—	35,0 ^{0,25} ₋₀

3.2 Internal diameter

The stem clamp diameter, *d*, shall be according to Table 1 (see Figure 2).

Dimensions in millimetres



Figure 2 — Stem clamp diameter

The internal diameter of the stem clamp can be measured with a tube of the corresponding external diameter.

3.3 Assembly conditions

The assembly of the stem and the handlebar bend, with the clamping bolt tightened with the torque recommended by the manufacturer, shall comply with the requirements of ISO 4210:2014, 4.7.

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