

JIS

JAPANESE INDUSTRIAL STANDARD

Road vehicles—Dimensions of starter pinions and ring gears

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Road vehicles – Dimensions
of starter pinions and ring gears

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1. Scope This Japanese Industrial Standard specifies the dimensions of module, pressure angle and number of teeth of starter pinions and ring gears, and other gears used for road vehicles.

Remarks: The following standards are cited in this Standard:

JIS B 0102 Glossary of gear terms

JIS B 0121 Gear notation – Symbols for geometrical data

2. Definitions and symbols The definitions of the main terms used in this Standard and the symbols for them shall be as given in JIS B 0102 and JIS B 0121 beside the following.

- (1) effective tip circle diameter d_a' The diameter of the circle made by connecting the points where the involute curve and the chamfering of top cross each other.
- (2) effective root circle diameter d_f' The diameter of the circle made by connecting the points where the involute curve and the fillet curve of dedendum cross each other.

3. Dimensions of pinions

3.1 Module, pressure angle, addendum modification coefficient and number of teeth Module m , pressure angle α , addendum modification coefficient x and number of teeth z of pinions should preferably be in accordance with Table 1.

Table 1. Module, pressure angle, addendum modification coefficient and number of teeth of pinions

Module m (mm)	Pressure angle α (°)	Addendum modification coefficient x	Number of teeth z							
			8	9	10	11	12	13	14	15
2.25	20	0.5	○	○	○	○	—	—	—	—
2.5			○	○	○	○	○	○	○	○
3			—	○	○	○	○	○	○	○
3.5			—	—	○	○	○	○	○	○
4			—	—	○	○	○	○	○	○

3.2 Addendum coefficient and dedendum coefficient The addendum coefficient ⁽¹⁾ which makes the basis for calculation of dimensions of pinions shall be as given in Table 2 and the dedendum coefficient ⁽²⁾ shall be 1.167.