



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4096.1-2022

**Geometrical product specifications (GPS) - Wedges - Part 1:
Series of angles and slopes**

Issued on: October 12, 2022

Implemented on: October 12, 2022

Issued by: SAMR; SAC

Table of Contents

Foreword...	3
Introduction...	5
1 Scope...	6
2 Normative references...	6
3 Terms and definitions...	6
4 Wedge series...	9
Annex A (Informative) Relationship to GPS matrix model...	11
Bibliography...	13

Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents.

This document is part 1 of GB/T 4096 Geometrical product specifications (GPS) - Wedges. The following parts have been released for GB/T 4096.

- Part 1: Series of angles and slopes;
- Part 2: Dimensioning and tolerancing.

This document replaces GB/T 4096-2001 Geometrical product specifications (GPS) - Series of angles and slopes on prisms; compared with GB/T 4096-2001, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Change "prisms" to "wedges" (see Clause 3; Clause 3 of the 2001 edition);
- b) Remove the terms and definitions, as well as corresponding diagrams, of prism, multiple prism, height of prism and thickness of prism (see Clause 2 of the 2001 edition);
- c) Combine the three tables of "Series of angles and slopes on general-purpose prisms", "Calculated values" and "Special-purpose prisms" into one table (see Clause 4; Clause 3 and Annex A of the 2001 edition).

This document is identical to ISO 2538-1:2014 Geometrical product specifications (GPS) - Wedges - Part 1: Series of angles and slopes.

Add the clause "Normative references" in this document;

1 Scope

This document specifies terms and definitions for wedges, three series of wedge angles ($120^\circ \sim 0^\circ 30'$) and a series of wedge slopes (1:10 ~ 1:500).

This document applies to general mechanical engineering purposes.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

wedge

Pair of intersecting planes.

Note 1: A wedge is a feature of size defined by an angular size.

Note 2: See Figure 1.

3.2

wedge angle

Angular size of the wedge defined in a plane perpendicular to the wedge edge.

Note: see Figure 1.

3.3

wedge slope

.....