

Australian Standard[®]

**Glossary of terms and notations
for gears**

This Australian Standard was prepared by Committee ME/11, Gears and Splines. It was approved on behalf of the Council of Standards Australia on 9 September 1991 and published on 9 December 1991.

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Australian Shipbuilders Association
Australian Sugar Milling Council
Bureau of Steel Manufacturers of Australia
CSIRO, Division of Applied Physics
German-Australian Chamber of Industry and Commerce
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PREFACE

This Standard was prepared by the Standards Australia Committee on Gears and Splines to supersede AS 2075—1978.

Gear terms are based on ISO 1122-1: 1983, *Glossary of gear terms—Part 1: Geometric definitions*.

Gear notation symbols have been taken from ISO 701: 1976, *International gear notation—Symbols for geometrical data*.

In this edition, a number of definitions have been revised and many drawings modified and clarified. Design factors have been omitted from this edition as they are outside the boundaries of a glossary. The section on gear notation symbols has been revised.

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FOREWORD

A glossary can be produced in varying degrees of complexity, depending on the intended application. It may be a listing of recommended terms, without definitions and designed to identify the terminology used between those knowledgeable in the subject; or it may be a source of instruction, with complete definitions, and designed to educate those not familiar with the subject. Although ISO 1122-1 tends towards the former, this Standard has concentrated on providing concise definitions, with illustrations where appropriate. For this reason some of the definitions given in ISO 1122-1 have been modified, edited, expanded or omitted.

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Australian Standard

Glossary of terms and notations for gears

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard provides geometric and kinematic terms applicable to cylindrical, bevel, hypoid gears and gear pairs. Gear notation symbols are provided.

NOTE: AS 2938 is based on American Gear Manufacturers Association (AGMA) Standards and reference to ANSI/AGMA 1012-F90 may be necessary when using that Standard.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

2938 Gears—Spur and helical—Guide to specification and rating

ISO

701 International gear notation—Symbols for geometrical data

1122 Glossary of gear terms

1122.1 Part 1: Geometric definitions

ANSI/AGMA

1012-F90 Gear nomenclature—Definitions of terms with symbols