

Glossary of

# Terms for cylindrical screw threads

[ISO title: Cylindrical screw threads — Vocabulary]

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- Fasteners and Turned Parts Institute
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- Institution of Production Engineers
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## National foreword

This British Standard, prepared under the direction of the Mechanical Engineering Standards Committee, is identical with ISO 5408:1983 “*Cylindrical screw threads — Vocabulary*” published by the International Organization for Standardization (ISO).

To assist in the cross-referencing of terms between languages the French text of the International Standard has been retained together with equivalent Russian, German and Italian terms given in Annex A, Annex B and Annex C respectively.

**Terminology and conventions.** The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

## 1 Scope and field of application

This International Standard provides fundamental terms and definitions in English and French applicable to cylindrical screw threads with profiles (in an axial plane) based on triangles. A list of Russian equivalent terms is given in annex A.

NOTE — In addition to terms used in the three official ISO languages (English, French and Russian), this International Standard gives in annexes B and C, the equivalent terms in German and Italian; these have been included at the request of the technical committee ISO/TC 1, and are published under the responsibility of the member bodies for Germany, F.R. (DIN) and Italy (UNI). However, only the terms given in the official languages can be considered as ISO terms.

## 2 Geometrical and general terms

**2.1 helix** : A curve on a right, circular cylindrical surface, intersecting the generators of the surface at constant angles other than 0 or  $\pi/2$  radians (see figure 1).

### NOTES

- 1 The axis of the cylindrical surface is also the axis of the helix.
- 2 If the cylindrical surface is cut along a straight line generator and then developed flat onto a plane, the helix will appear as a number of inclined, straight, parallel lines.
- 3 Terms 2.1, 2.2, 2.3 and figure 1 define general helix parameters which shall not be confused with parameters applicable to a screw thread.
- 4 The terms "*cylinder*" and "*cylindrical surface*", when used in this International Standard stand for "*right circular cylinder*" and "*right circular cylinder surface*" respectively.

## 1 Objet et domaine d'application

La présente Norme internationale définit des termes fondamentaux en anglais et en français, applicables aux filetages cylindriques dont les profils (dans un plan axial) sont basés sur des triangles. Une liste de termes russes équivalents est donnée dans l'annexe A.

NOTE — En supplément aux termes donnés dans les trois langues officielles de l'ISO (anglais, français, russe), la présente Norme internationale donne, dans les annexes B et C, les termes équivalents en allemand et en italien; ces termes ont été inclus à la demande du comité technique ISO/TC 1, et sont publiés sous la responsabilité des comités membres de l'Allemagne, R.F. (DIN) et de l'Italie (UNI). Toutefois, seuls les termes donnés dans les langues officielles peuvent être considérés comme termes ISO.

## 2 Termes géométriques et généraux

**2.1 hélice** : Courbe sur une surface cylindrique de révolution droite qui coupe sous un angle constant, différent de 0 ou  $\pi/2$  radians, les génératrices de la surface (voir figure 1).

### NOTES

- 1 L'axe de la surface cylindrique est aussi l'axe de l'hélice.
- 2 Si l'on coupe la surface cylindrique le long d'une génératrice et la développe dans un plan, l'hélice se présentera sous forme de droites inclinées et parallèles.
- 3 Les termes 2.1, 2.2, 2.3 et la figure 1 définissent des paramètres généraux de l'hélice et ne doivent pas être confondus avec les paramètres se rapportant à un filetage.
- 4 Dans la présente Norme internationale les termes «*cylindre* et *surface cylindrique*» sont employés à la place des termes complets «*cylindre de révolution droit* et *surface cylindrique de révolution droite*».