

SLOVENSKI STANDARD SIST ISO 678:1998

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Straight bevel gears for general engineering and heavy engineering -- Modules and diametral pitches

iTeh STANDARD PREVIEW

Engrenages coniques à denture droite de mécanique générale et de grosse mécanique - Modules et diamétral pitches

SIST ISO 678:1998

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21.200 Gonila Gears

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INTERNATIONAL STANDARD



678

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION-МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ-ORGANISATION INTERNATIONALE DE NORMALISATION

Straight bevel gears for general engineering and heavy engineering — Modules and diametral pitches

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UDC 621.833.2

Descriptors: gears, bevel gears, teeth modulus, spacing.

Ref. No. ISO 678-1976 (E)

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published R was ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 60 has reviewed ISO Recommendation R 678 and found it technically suitable for transformation. International Standard ISO 678 therefore replaces ISO Recommendation R 678-1968 to which it is technically identical.

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ISO Recommendation R 678 was approved by the Member Bodies of the following countries:

Australia Hungary South Africa, Rep. of Austria India Spain Belgium Israel Sweden Brazil Italy Switzerland Bulgaria Japan Turkey United Kingdom Chile Netherlands Czechoslovakia New Zealand U.S.S.R. France Poland Yugoslavia Germany Portugal

No Member Body expressed disapproval of the Recommendation.

The Member Body of the following country disapproved the transformation of ISO/R 678 into an International Standard :

Germany

Straight bevel gears for general engineering and heavy engineering — Modules and diametral pitches

0 INTRODUCTION

This International Standard, intended essentially to facilitate the establishment of series of cutting tools, is not intended to prevent the use of any unstandardized module or diametral pitch, which can always be obtained by using the tool for the module or diametral pitch corresponding to the next smaller size given in the table.

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies modules and diametral pitches of straight bevel gears for general engineering and heavy engineering.

(standards.it

2 DEFINITIONS1)

3 VALUES

- 2.1 module: The ratio of the pitch, expressed in 8:192 millimetres, to the number in order the quotient soft the sist of the number so-67 of teeth).
- **2.2** diametral pitch: The ratio of the number π to the pitch expressed in inches (or the quotient of the number of teeth by the reference diameter expressed in inches).

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Preference should be given to the use of the modules and diametral pitches stated in column I. The module 6,5 in column II should be avoided.

The diametral pitches are given in this International Standard only on a provisional basis; they will be deleted after the period necessary to allow conversion to the metric system.

I II 1 1,125 1,25 1,375 1,5 1,75 2 2,25 2,5 2,75 3 3,5 4 4,5 PRSEVIE 5,5 6 (6,5) 7 9			
1,25 1,375 1,5 2 2,5 2,75 3 4 PRSEVE 5,5 6 (6,5) 7	ı	11	
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32 40	50	45	

Modules m

i	11
20	10
16	18
12	14
10	11
8	9
6	7
5	5.5
4	4.5
3	3.5
	2.75
2	2.25
2 1.5	1.75
	0.875
1.25	
1	

0.75

0.625

0.50

Diametral pitches P

NOTES

1 The module of a bevel gear is determined on the complementary cone.

The module and the diametral pitch are defined with respect to the reference surface.

2 For the definition of "basic rack", see ISO 677.

¹⁾ Extract from ISO/R 1122, Glossary of gears - Geometrical definitions.