INTERNATIONAL STANDARD

ISO 6697

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Cycles — Hubs and freewheels — Assembly dimensions

iTeh Stycles Dimensions d'assemblage (standards.iteh.ai)

ISO 6697:1994 https://standards.iteh.ai/catalog/standards/sist/da3d42f8-7ce4-4eae-a796-ecf4a1423497/iso-6697-1994



ISO 6697:1994(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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International Standard ISO 6697 was prepared by Technical Committee ISO/TC 149, Cycles, Subcommittee SC 2, Sub-assemblies and components.

ISO 6697:1994

Annex A of this International Standard is for information only so-6697-1994

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Cycles — Hubs and freewheels — Assembly dimensions

1 Scope

This International Standard specifies the main dimensions for hubs and freewheels, including single-speed coaster brake hubs and multispeed gear hubs, to ensure assembly and interchangeability.

3.2 Rear hub

Rear hub dimensions are shown in figure 2 and given in table 2.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions site 1.21 of this International Standard. At the time of publication, the editions indicated were valid. All standards given in table 3. are subject to revision and parties to agreements resisted add 42/8-7ce4-4cae-a796-based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6698:1989, Cycles — Screw threads used to assemble freewheels on bicycle hubs.

ISO 8090:1990, Cycles — Terminology.

ISO 9633:1992, Cycle chains — Characteristics and test methods.

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Freewheel dimensions are shown in figure 3 and

Figure 1

3 Dimensions

NOTE 1 The figures are given as an indication only, and do not imply any design requirements.

3.1 Front hub

Front hub dimensions are shown in figure 1 and given in table 1.

Table 1 — Front hub dimensions

Dimensions in millimetres

Width A ± 1	Axle thread T			
100	M8 × 1			
91	M9 × 1			

Dimensions in millimetres

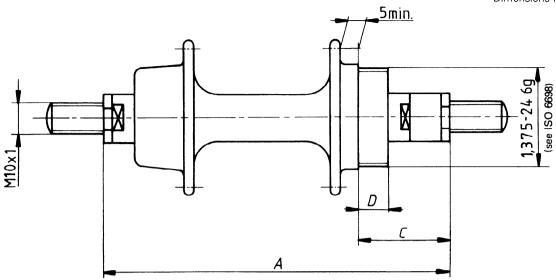


Figure 2

Table 2 — Rear hub dimensions iTeh STANDARD PREVIEW

Dimensions in millimetres

A	С	D	(standards.i		Rear sprocket chain line distance ²⁾ b ³⁾		
± 1			Application ISO 6697:199 https://standards.iteh.ai/catalog/standards/si	st/da3d42f8-7ce4-4eae-	Wheel with a796-spoke protector	Wheel without spoke protector	
110	21	10 —	Single speed freewheel Single speed coaster brake hub ⁴⁾⁵⁾	081 C 082 C		41 41	
117	28 28 —	10 10 —	3 speed freewheel 4 speed freewheel Single speed coaster brake hub ⁴⁾⁵⁾ Multispeed gear hub ⁴⁾	081 C or 082 C 082 C 081 C 081 C	42 42 — 42	41 41 41 41	
122	33	10	4 speed freewheel 5 speed freewheel Multispeed gear hub ⁴⁾	082 C 082 C 081 C	40 42 —	38,5 41 41	
126	36	10	5 speed freewheel 6 speed freewheel	082 C 082 C	41 43	40 42	

1) Chain number according to ISO 9633. These designations correspond to the following inch designations:

No. 081 C: $1/2 \times 1/8$ No. 082 C: $1/2 \times 3/32$

2) Rear chain line values are approximate, but may be calculated from the formula

$$\frac{A}{2}-C+M-\frac{S}{2}$$

taking into account the exact dimensions M and S of the freewheel (see table 3).

- 3) See ISO 8090:1990, clause 11.
- 4) Tolerance for $A:\pm 1.5$
- 5) For single speed coaster brake hubs, the preferred value for dimension A is 117 mm.

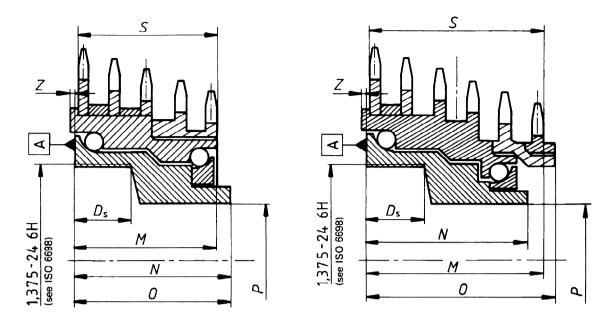


Figure 3

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Table 3 Freewheel dimensions https://standards.iteh.avcatalog/standards/sist/da3d42f8-7ce4-4eae-a796-

Dimensions in millimetres

		01	1.402.407/:	((07 1004			Diritoriorio	
Number of	Wheel for use with chain number ¹⁾	$D_{\rm s}$	М	N 2)	O 3)	P	Z	S
sprockets		min.	max.	max.	max.	min.	max.	max.
1	081 C			18	18			
3	081 C or 082 C		21	24	24			18
4	082 C	10,2	21	27	27	20	2	20
5	082 C		27	30	30			25
6	082 C		33	33	33			31

1) Chain number according to ISO 9633. These designations correspond to the following inch designations:

No. 081 C: 1/2 × 1/8 No. 082 C: 1/2 × 3/32

- 2) Overall width of inner body.
- 3) Overall width from reference face A to the extreme outside face of the freewheel assembly. It may be equal to N, or equal to or greater than M (see figure 3).

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Annex A

(informative)

Bibliography

[1] ISO 261:1973, ISO general purpose metric screw threads — General plan.

[2] ISO 4210:1989, Cycles — Safety requirements of bicycles.

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