

Specification for

Nominal dimensions and tolerances of flywheel housings for reciprocating internal combustion engines

[ISO title: Flywheel housings for reciprocating internal
combustion engines — Nominal dimensions and tolerances]

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Committees responsible for this British Standard

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- Department of Transport (Highways)
- Freight Transport Association
- Institute of Road Transport Engineers (Incorporated)
- London Regional Transport
- Ministry of Defence
- National Bus Company
- Road Haulage Association Ltd.
- Society of Motor Manufacturers and Traders Limited

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National foreword

This British Standard has been prepared under the direction of the Automobile Standards Committee and is identical with ISO 7648:1987 “*Flywheel housings for reciprocating internal combustion engines — Nominal dimensions and tolerances*”, published by the International Organization for Standardization (ISO).

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.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

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

Cross-references

International Standard	Corresponding British Standard
ISO 273:1979	BS 4186:1984 <i>Specification for clearance holes for metric bolts and screws</i> (Identical)

The Technical Committee has reviewed the provisions of ISO 1101 and ISO 7649, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard to ISO 1101 is BS 308 “*Engineering drawing practice*” Part 3 “*Geometrical tolerancing*”.

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 8, an inside back cover 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 specifies the nominal dimensions and tolerances of flywheel housings for reciprocating internal combustion engines, in particular those which affect inter-changeability with mating parts.

It applies to reciprocating internal combustion engines except engines for aircraft and passenger cars. Flywheel housings of size codes 1 to 4 are recommended for commercial vehicles and buses.

2 References

ISO 273, *Fasteners — Clearance holes for bolts and screws.*

ISO 1101, *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

ISO 7649, *Commercial vehicles — Clutch housings for internal combustion engines — Nominal dimensions and tolerances¹⁾.*

3 Nominal dimensions and tolerances

3.1 Flywheel housing

See Figure 1 and Table 1.

Table 1 — Flywheel housing dimensions and tolerances

Dimensions in millimetres

Size code	A		Run-out (assembled flywheel housing)	B	D ^a
	nom.	tol.	<i>t</i>	nom.	min.
02	1 245	+0,25 0	not applicable	1 400	10
01	1 010,00	+0,25 0		1 165	10
00	787,40	+0,25 0		883	8
0	647,70	+0,25 0	0,39	711	8
1/2	584,20	+0,20 0	0,35	648	8
1	511,18	+0,13 0	0,31	553	8
2	447,68	+0,13 0	0,27	489	8
3	409,58	+0,13 0	0,25	451	8
4	361,95	+0,13 0	0,25	404	8
5	314,32	+0,13 0	0,25	356	8
6	266,70	+0,13 0	0,25	308	8

NOTE Run-out tolerances *t* shall be measured on the assembled engine mounted on its supports in accordance with the annex. (See ISO 1101 for definition of run-out.)

^a Dimension *D* relates to flywheel housings without rubber sealing. However, this dimension may be increased if a rubber seal is necessary.

¹⁾ At present at the stage of draft.