

Inserts, self-locking, with MJ threads, open type, in metallic material, coated or uncoated — Dimensions

ICS 49.030.30

National foreword

This British Standard reproduces verbatim ISO 13597:2000 and implements it as the UK national standard.

The UK participation in its preparation was entrusted by Technical Committee ACE/12, Aerospace fasteners and fastening systems, to Subcommittee ACE/12/1, Aerospace fasteners and fastening systems (international), which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii and iii, a blank page, pages 1 to 3 and a back cover.

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Amendments issued since publication

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**Aerospace — Inserts, self-locking,
with MJ threads, open type, in metallic
material, coated or uncoated — Dimensions**

*Aéronautique et espace — Douilles filetées, à freinage interne et filetage
MJ, du type ouvert, en matériau métallique, revêtues ou non revêtues —
Dimensions*



Reference number
ISO 13597:2000(E)

Foreword

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International Standard ISO 13597 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

Aerospace — Inserts, self-locking, with MJ threads, open type, in metallic material, coated or uncoated — Dimensions

1 Scope

This International Standard specifies the dimensions of open inserts, with self-locking MJ threads, in metallic material, coated or uncoated, for honeycomb and composite materials. The classification referring to strength and temperature, depending on the core material and potting compound, is not specified.

This International Standard is only applicable to the compilation of aerospace product standards.

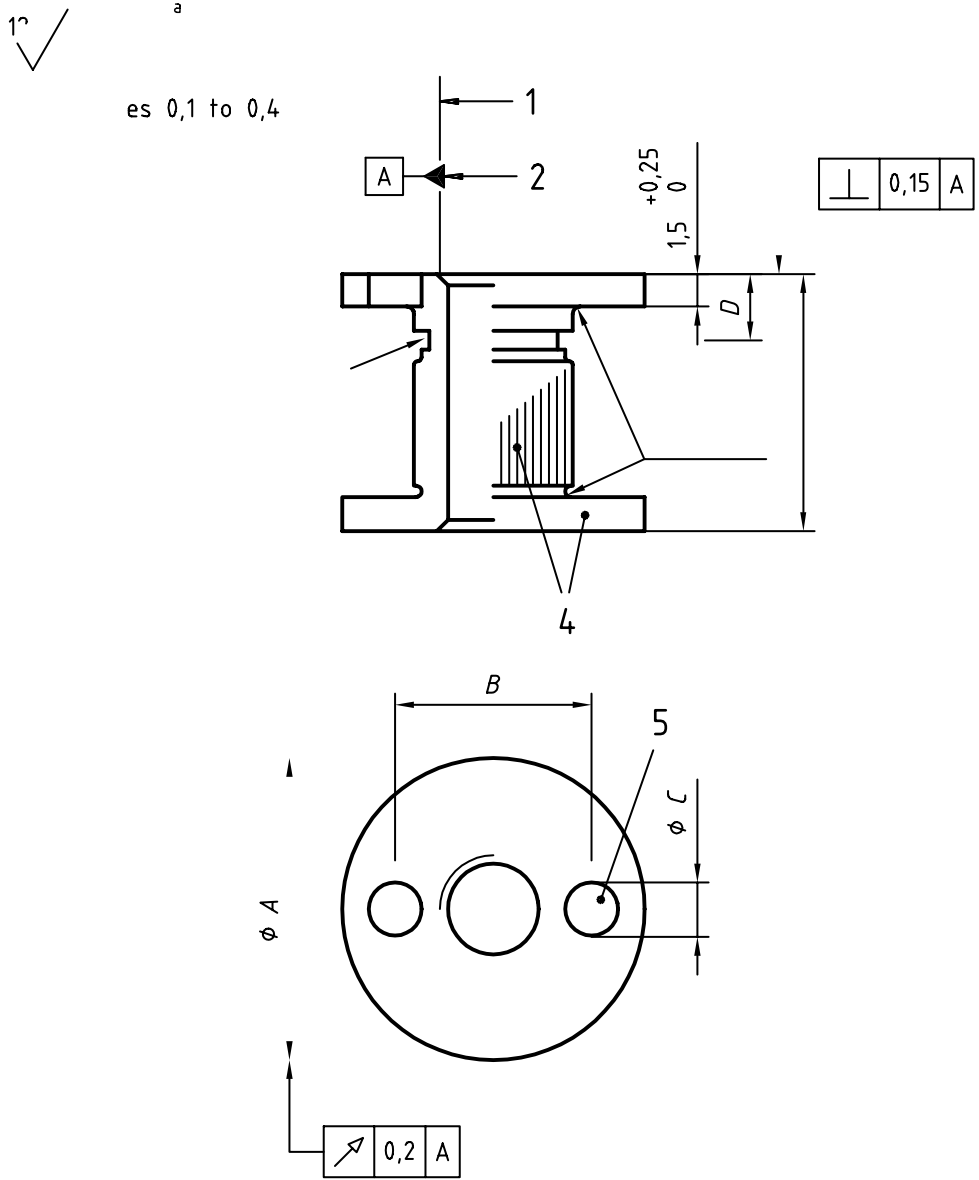
2 Normative reference

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ISO 5855-2:1999, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.*

3 Configuration and dimensions

See Figure 1 and Table 1. Dimensions and tolerances are expressed in millimetres. They apply to inserts after any surface coating(s).



Details of form not stated are at the manufacturer's discretion.

- Key**
- 1 Thread
 - 2 Pitch diameter
 - 3 Shank deformed this area to provide thread lock
 - 4 Antirotation feature at manufacturer's option on shank or bottom flange
 - 5 Potting and vent hole

^a These values, in micrometres, are valid prior to any surface coating(s). The values do not apply to threads having a surface texture obtained by usual manufacturing methods.

Figure 1

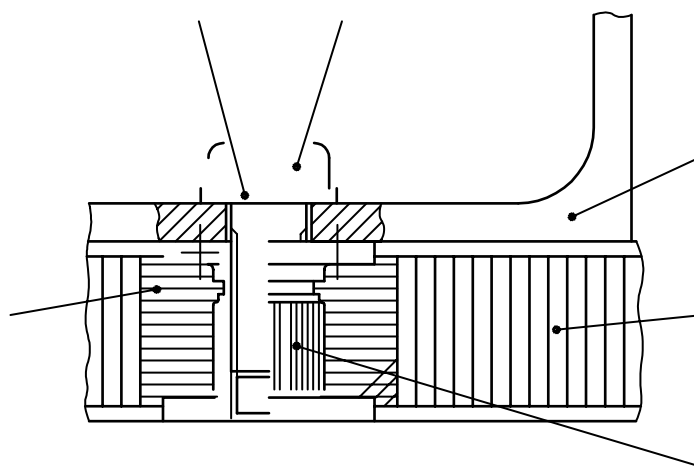
Table 1

Diameter code	Thread ^a	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i> ^{b,c}	
		± 0,25	± 0,25	± 0,25	≈	nom.	tol.
030	MJ3 × 0,5-4H6H	14,2	9,3	2,4	3	7 to 30	+ 0,25 0
040	MJ4 × 0,7-4H6H				4	8 to 40	
050	MJ5 × 0,8-4H6H				5	10 to 50	
060	MJ6 × 1-4H5H				6	12 to 60	

^a In accordance with ISO 5855-2
^b Increments: 1
^c Other height values to be agreed

4 Example of application

See Figure 2.



Key

- 1 Washer
- 2 Bolt
- 3 Potting compound
- 4 Attached component
- 5 Sandwich panel
- 6 Insert

Figure 2

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