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**Aerospace — Nuts, anchor, self-locking,  
floating, two lug, with incremental  
counterbore, with MJ threads,  
classifications: 900 MPa (at ambient  
temperature)/235 °C, 900 MPa (at ambient  
temperature)/315 °C and 900 MPa  
(at ambient temperature)/425 °C —  
Dimensions**

*Aéronautique et espace — Écrous à river, à freinage interne, flottants,  
double patte, à chambrage très profond, à filetage MJ, classifications:  
900 MPa (à température ambiante)/235 °C, 900 MPa (à température  
ambiante)/315 °C et 900 MPa (à température ambiante)/425 °C —  
Dimensions*



## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12272 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

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## Introduction

The dimensions specified in this International Standard have been determined to allow production of a part which will satisfy the requirements of the procurement specification ISO 5858.

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# **Aerospace — Nuts, anchor, self-locking, floating, two lug, with incremental counterbore, with MJ threads, classifications: 900 MPa (at ambient temperature)/235 °C, 900 MPa (at ambient temperature)/315 °C and 900 MPa (at ambient temperature)/425 °C — Dimensions**

## **1 Scope**

This International Standard specifies the dimensions of self-locking, floating, two lug anchor nuts, with incremental counterbore, with MJ threads, for classifications: 900 MPa <sup>1)</sup>/235 °C <sup>2)</sup>, 900 MPa <sup>1)</sup>/315 °C <sup>2)</sup> and 900 MPa <sup>1)</sup>/425 °C <sup>2)</sup>.

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

## **2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements 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 5855-2:1988, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.*

ISO 5858:1991, *Aerospace — Self-locking nuts with maximum operating temperature less than or equal to 425 °C — Procurement specification.*

ISO 8788:1987, *Aerospace — Fasteners — Tolerances of form and position for nuts.*

## **3 Configuration and dimensions**

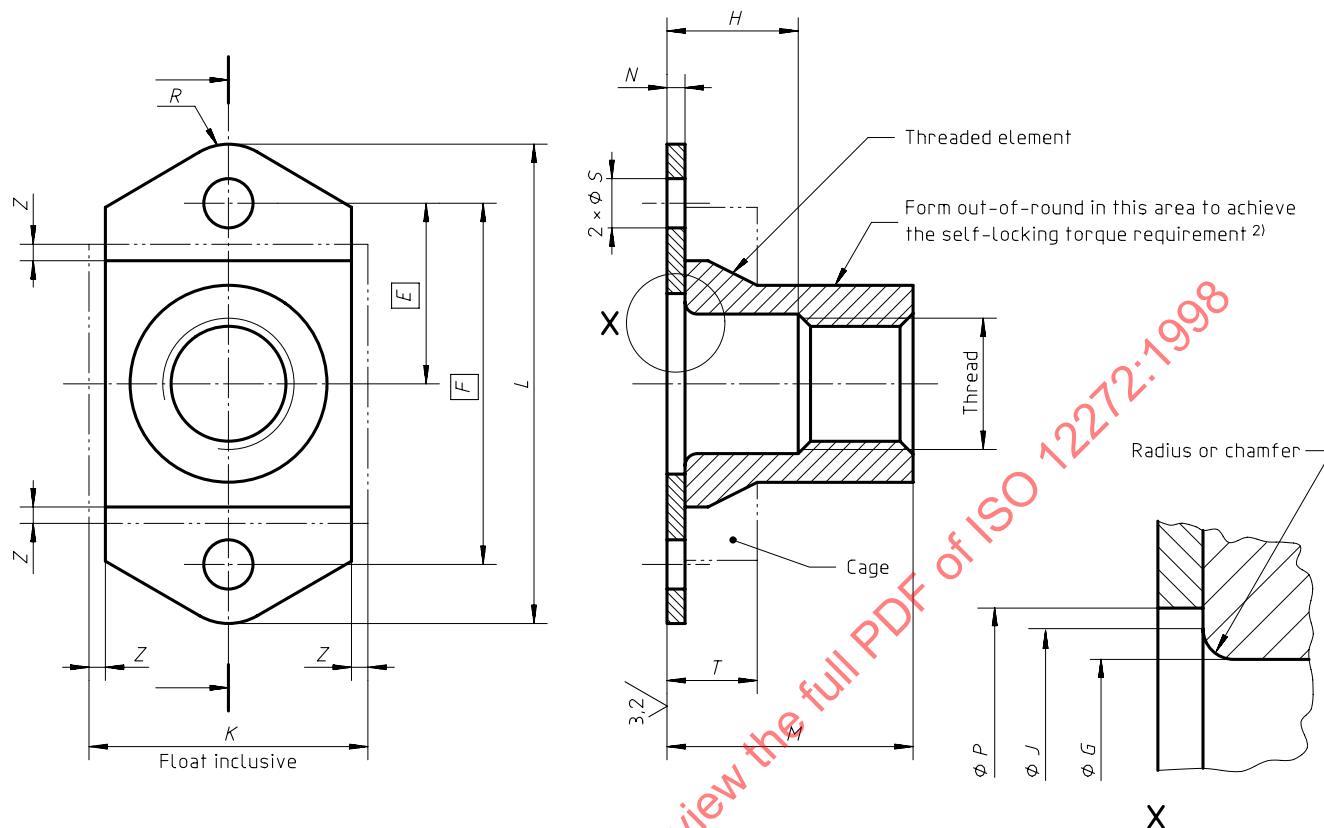
See figure 1 and table 1. Dimensions and tolerances are expressed in millimetres. They apply after any surface coating(s) but before the application of any lubricant.

1) Corresponds to the minimum tensile stress which the nut is able to withstand at ambient temperature without breaking or cracking when tested with a bolt of a higher strength class.

2) Maximum temperature that the nut is able to withstand, without permanent alteration to its original characteristics, after ambient temperature has been restored. The maximum temperature is conditioned by the material or by the surface treatment.

$$6,3 / \left( 3,2 / \right)^1$$

Remove sharp edges 0,1 to 0,4



NOTE — Tolerances of form and position shall conform to those specified in ISO 8788. Details of form not stated are at the manufacturer's option.

1) These values, in micrometres, apply before any surface coating(s) is(are) applied. The values do not apply to threads, punched holes or sheared edges, the surface texture of which will be as achieved by the usual manufacturing methods.

2) Tooling marks permissible in this area.

Figure 1

Table 1

| Diameter code | Thread <sup>1)</sup> | E   | F  | G<br>min. | H<br>min. | J <sup>2)</sup><br>max. | K<br>max. | L<br>max. | M<br>max. | N<br>max. | P<br>min. | R<br>≈ | S<br>+0,2<br>0 | T<br>max. | Radial floating<br>Z<br>min. |
|---------------|----------------------|-----|----|-----------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|--------|----------------|-----------|------------------------------|
| 050           | MJ5×0,8 – 4H6H       | 9,5 | 19 | 5,2       | 4         | 7,3                     | 12        | 25,2      | 8,5       | 0,9       | 6,5       | 3      | 2,5            | 4,5       | 0,5                          |
|               |                      |     |    |           | 6         |                         |           |           | 10,5      |           |           |        |                |           |                              |
|               |                      |     |    |           | 8         |                         |           |           | 12,5      |           |           |        |                |           |                              |
|               |                      |     |    |           | 10        |                         |           |           | 14,5      |           |           |        |                |           |                              |
| 060           | MJ6×1 – 4H5H         | 11  | 22 | 6,2       | 4         | 8,7                     | 13,5      | 29,2      | 9,4       | 0,9       | 7,5       | 3,5    | 2,5            | 4,6       | 0,5                          |
|               |                      |     |    |           | 6         |                         |           |           | 11,4      |           |           |        |                |           |                              |
|               |                      |     |    |           | 8         |                         |           |           | 13,4      |           |           |        |                |           |                              |
|               |                      |     |    |           | 10        |                         |           |           | 15,4      |           |           |        |                |           |                              |
| 080           | MJ8×1 – 4H5H         | 11  | 22 | 8,2       | 4         | 10,9                    | 16        | 29,2      | 11,2      | 1,1       | 9,5       | 3,5    | 3              | 5,5       | 0,5                          |
|               |                      |     |    |           | 6         |                         |           |           | 13,2      |           |           |        |                |           |                              |
|               |                      |     |    |           | 8         |                         |           |           | 15,2      |           |           |        |                |           |                              |
|               |                      |     |    |           | 10        |                         |           |           | 17,2      |           |           |        |                |           |                              |

1) In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

2) Measured at sharp corners (chamfered) or point of tangency (radiused).