

# INTERNATIONAL STANDARD

# ISO 43

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## Aircraft — Jacking pads

*Aéronefs — Points d'appui du vérin de levage*

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## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

ISO 43 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 9, *Air cargo and ground equipment*.

This second edition cancels and replaces the first edition (ISO 43:1976), of which [Clause 4](#) and Figure 1 to Figure 6 has been technically revised to add a seventh size for heavier aircraft.

# Aircraft — Jacking pads

## 1 Scope

This document specifies the profiles and dimensions of aircraft jacking pads and the minimum clearance to be provided around them. Aircraft jacking pads, also called adapters, can be attached to primary flight structure (PFS) or to axles.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

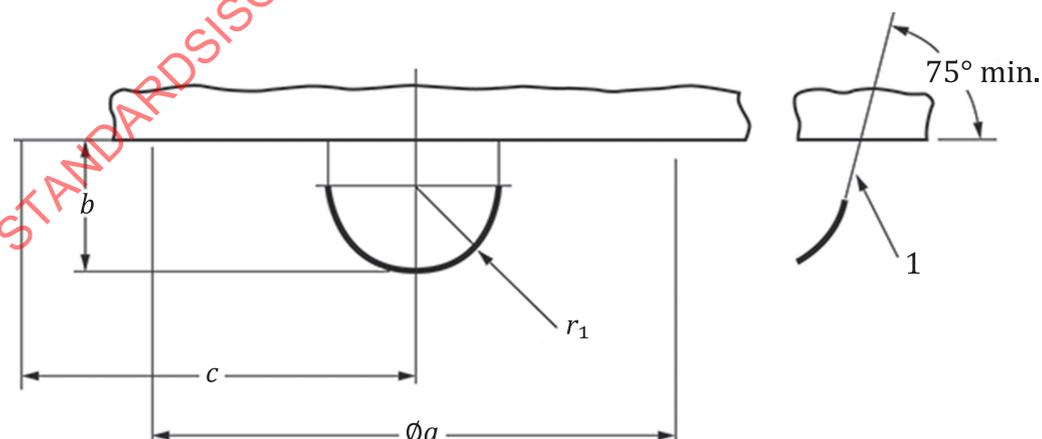
- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

## 4 Required characteristics

Aircraft jacking pads are to be limited to the seven types specified below, which specify the shape, size and clearances to be provided around the pads.

They shall meet the shape specified in [Figure 1](#) and the dimensions and clearances specified in [Table 1](#) and [Table 2](#) for the type corresponding to their intended load capacity.

Conversion factors: 1 pound force (lbf) = 4,45 Newtons. 1 inch = 25,4 mm



### Key

- 1 optional taper

**Figure 1 — Jacking pads adapters categorization**

Table 1 — Jacking pads adapters categorization (pounds - inches)

Type	Load		Adapter for	$\varnothing a$	$b$	$c$	$r_1$
	min. pound force	max. pound force		Minimum clearance space	Minimum clearance space	Wheel, brake, tire minimum clearance	Spherical radius
				inch	inch	inch	$\pm 0.010$ inch
I	0	10000	PFS	3	1.125	N/A	0.5
II	10000	112000	PFS	3 to 12	1.187	N/A	0.75
III	0	10000	Axle	3	0.750	2.25	0.5
IV	10000	150000	Axle	3 to 9	0.875	3.5	0.75
V	150000	281100	Axle	9	1.187	4.5	1.25
VI	112000	250000	PFS	12 to 13.7	1.375	N/A	1.25
VII	250000	359700	PFS	13.7	1.500	N/A	1.75

Table 2 — Jacking pads adapters categorization (kilonewtons - mm)

Type	Load		Adapter for	$\varnothing a$	$b$	$c$	$r_1$
	min. kN	max. kN		Minimum clearance space	Minimum clearance space	Wheel, brake, tire minimum clearance	Spherical radius
				mm	mm	mm	$\pm 0,25$ mm
I	0	44,5	PFS	76,2	28,58	N/A	12,70
II	44,5	500	PFS	76,2 to 304,8	30,15	N/A	19,05
III	0	44,5	Axle	76,2	19,05	57,15	12,70
IV	44,5	667	Axle	76,2 to 228,6	22,23	88,9	19,05
V	667	1250	Axle	228,6	30,15	114,3	31,75
VI	500	1112	PFS	304,8 to 347,98	34,93	N/A	31,75
VII	1112	1600	PFS	347,98	38,10	N/A	44,45