Aerospace Screws, pan head, internal offset cruciform ribbed or unribbed drive, pitch diameter shank, long length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1100 MPa — **Dimensions**

ICS 49.030.20



Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems, upon which the following bodies were represented:

British Industrial Fasteners Federation Ministry of Defence Society of British Aerospace Companies

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National foreword

This British Standard has been prepared by Technical Committee ACE/12. It is identical with ISO 12261:1996, Aerospace — Screws, pan head, internal offset cruciform ribbed or unribbed drive, pitch diameter shank, long length MJ thread, metallic materials, coated or uncoated, strength classes less than or equal to 1 100 MPa — Dimensions, published by the International Organization for Standardization (ISO).

Cross-references

Publication referred to	Corresponding British Standard
ISO 3353:1992	BS 2A 231:1993 Rolled threads for bolts. Lead and runout requirements (Identical)
ISO 5855-2:1988	BS 6293 Aerospace. MJ threads Part 2:1994 Limit dimensions for bolts and nuts (Identical)
ISO 7913:1994	${\rm BS}\ 2{\rm A}\ 296{:}1995\ Bolts\ and\ screws,\ metric.\ Tolerances\ of\ form\ and\ position}$ (Identical)

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, 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

This International Standard specifies the dimensions of pan head screws with internal offset cruciform ribbed or unribbed drive, pitch diameter shank and long length MJ threads, in metallic material, coated or uncoated, with strength classes less than or equal to 1 100 MPa.

This International Standard is applicable to 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 3353:1992, Aerospace — Rolled threads for bolts — Lead and runout requirements.

ISO 5855-2:1988, Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.

ISO 7913:1994, Aerospace — Bolts and screws, metric — Tolerances of form and position.

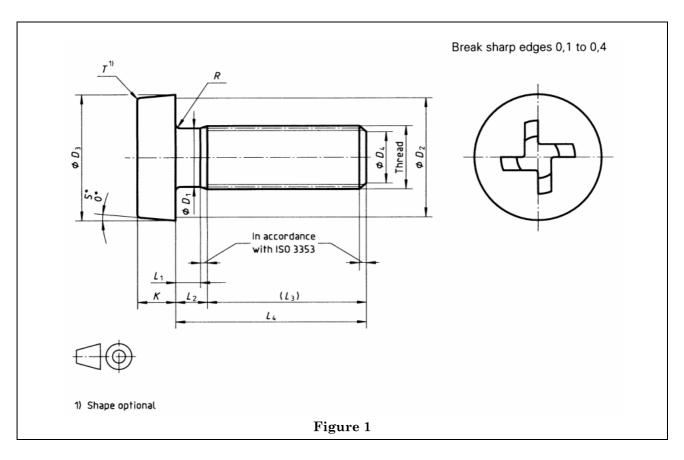
ISO 14275:— $^{1)}$, Aerospace — Drives, internal, offset cruciform, ribbed — Metric series.

ISO 14276:—¹⁾, Aerospace — Drives, internal, offset cruciform — Metric series.

3 Configuration and dimensions

See Figure 1 and Table 1. Dimensions and tolerances are expressed in millimetres. They are applicable after any surface coating, but before the application of any lubricant.

Tolerances of form and position are specified in ISO 7913.



¹⁾ To be published.

Table 1

Diameter	Thread ^a	-1 -2		D_3	- 4		K		$L_1^{ m bcd}$	$L_2^{ m bcd}$	L_3	L_4^{d}	R		T		Drive
code		± 0,13	min.	$0 \\ -0,3$	nom.	tol.	nom.	tol.	min.	max.		± 0,3	nom.	tol.	max.	min.	$\mathbf{code}^{\mathrm{e}}$
040	MJ4×0,7 – 4h6h	3,54	6,7	8	3	0	2,4		0,4	2	14	16 to 56	0,4		1,6	0,4	R4
						- 0,5		$0 \\ -0.2$									
050	MJ5×0,8 – 4h6h	4,48	8,7	10	3,4		3		0,5		16	20 to 70	0,5		2	0,5	R5
060	MJ6×1 – 4h6h	5,35	10,7	12	4,2		3,6			1	18	22 to 84		0 -0.2	2,4	0,6	R6
070	$MJ7 \times 1 - 4h6h$	6,35	12,7	14	5,2	± 0.5	4,2		0,7	4	20	24 to 98	0,7	0,2	2,8	0,7	100
080	MJ8×1 – 4h6h	7,35	14,7	16	6,2		4,8				22	26 to 112			3,2	0,8	R8
100	MJ10×1,25 – 4h6h	9,19	18,7	20	7,9		6	-0, 3	0,8		26	32 to 140	0,8		4	1	R10
120	MJ12×1,25 –4h6h	11,19	22,7	24	9,8		7,2		0,9	6	30	36 to 168	0,9	0 - 0,3	4,8	1,2	R12
														.,.			

a In accordance with ISO 5855-2
b First length corresponding to first L_4 length
c Conditions L_1 min. and L_2 max. cannot be obtained simultaneously.
d Increments: $2 \text{ for } L_4 \leq 100$ $4 \text{ for } L_4 \geq 100$

 $^{^{\}rm e}$ In accordance with ISO 14275 or ISO 14276

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List of references

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