FINAL DRAFT

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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 1 100 MPa — Dimensions

Aéronautique et espace Vis à tête cylindrique, à empreinte cruciforme déportée, avec ou sans saillies antidérapantes, à tige de diamètre égal au diamètre sur flancs et filetage MJ long, en matériau métallique, revêtues ou non revêtues, des classes de résistance inférieures ou égales à 1 100 MPa — Dimensions

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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.

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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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 20, Aircraft and space vehicles, Subcommittee SC 4, Aerospace fastener systems.

This second edition cancels and replaces the first edition (ISO 12261:1996), of which it constitutes a minor revision.

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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 1 100 MPa — Dimensions

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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3353 (all parts), Aerospace — Lead and runout threads

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

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

ISO 14275, Aerospace — Drives, internal, offset cruciform, ribbed — Metric series

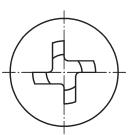
ISO 14276, Aerospace — Drives, internal offset cruciform — Metric series

3 Configuration and dimensions

See <u>Figure 1</u> and <u>Table 1</u>. 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.

Break sharp edges 0,1 to 0,4



Key

- a Shape optional.
- b In accordance with ISO 3353 (all parts).

Figure 1

Table 1.10 di ndard

Diam- eter code	Threada	D_1	D_2	D_3	D ₄		Idal K		L_1 bcd	L_2 bcd	L_3	L_4 d	R		T		
		± 0,13	min.	0 -0,3	nom.	tol	nom.	1151.	min.	max.		±0,3	nom.	tol.	max.	min.	Drive code ^e
040	MJ4×0,7 – 4h6h	3,54	6,7	8	3,0	0 -0,5 3061 ± 0,5		-0,2	0,4	2	14	16 to 56	0,4	0 -0,2	1,6	0,4	R4
050	MJ5×0,8 – 4h6h	4,48	8,7	10	3,4		3,0		0,5		16	20 to 70	0,5		2,0	0,5	R5
060	MJ6× 1 – 4h6h	5,35	10,7	12	4,2		3,6			4	18	22 to 84	0,7		2,4	0,6	R6
070	MJ7×1 – 4h6h	6,35	12,7	14	5,2		4,2		0,7	4	20	24 to 98			2,8	0,7	Ко
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		0,8		26	32 to 140			4,0	1,0	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

- 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 for $L_4 \le 100$
 - 4 for $L_4 > 100$
- In accordance with ISO 14275 or ISO 14276.

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