

INTERNATIONAL STANDARD

ISO
12260

First edition
1996-11-01

Aerospace — Screws, pan head, internal offset cruciform ribbed or unribbed drive, stepped shank, short or medium 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 fût dégagé et filetage MJ
court ou de longueur moyenne, en matériau métallique, revêtues ou non
revêtues, des classes de résistance inférieures ou égales à 1 100 MPa —
Dimensions*



Reference number
ISO 12260:1996(E)

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.

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 12260 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

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1 Scope

This International Standard specifies the dimensions of pan head screws with internal offset cruciform ribbed or unribbed drive, stepped shank, short or medium 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 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*.

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*.

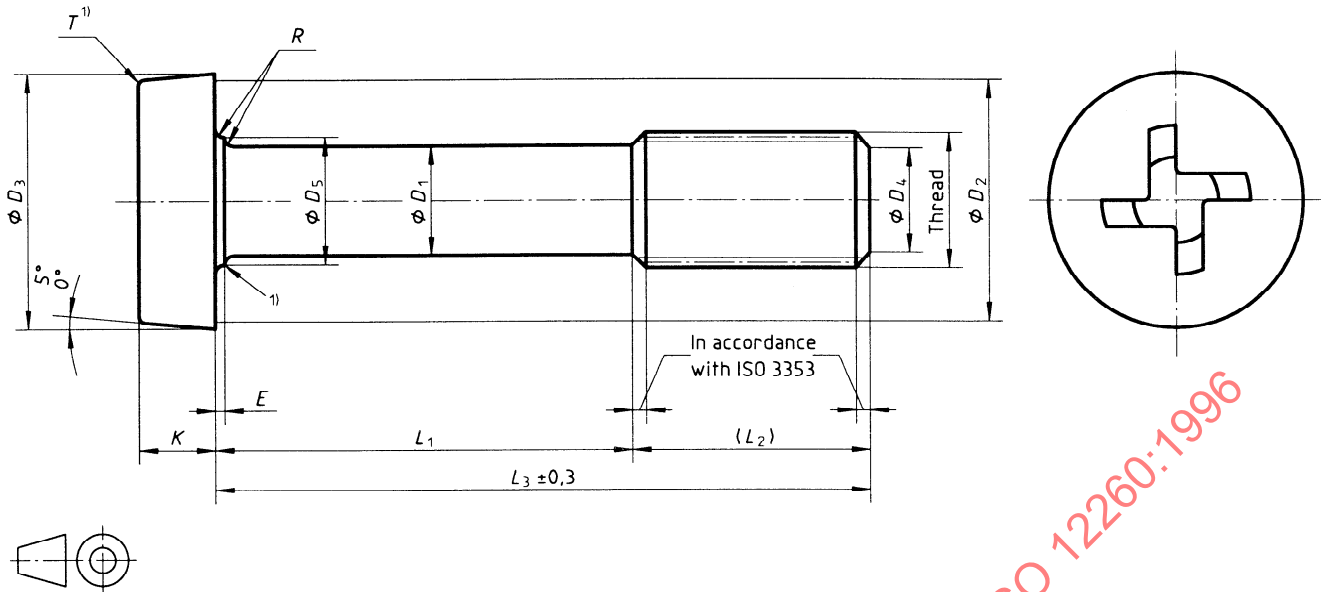
3 Configuration and dimensions

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.

Break sharp edges 0,1 to 0,4



1) Shape optional

Figure 1

Table 1

Diameter code	Thread ¹⁾	<i>D</i> ₁	<i>D</i> ₂	<i>D</i> ₃	<i>D</i> ₄		<i>D</i> ₅	<i>E</i>	<i>K</i>		<i>L</i> ₁ ³⁾	<i>L</i> ₂ Thread		<i>R</i>		<i>T</i>		Drive code ⁴⁾
		h12 ²⁾	min.	$- \begin{smallmatrix} 0 \\ 0,3 \end{smallmatrix}$	nom.	tol.	h12 ²⁾	$+ \begin{smallmatrix} 0,2 \\ 0 \end{smallmatrix}$	nom.	tol.	±0,2	short	medium	nom.	tol.	max.	min.	
040	MJ4×0,7 – 4h6h	3	6,7	8	3	±0,5	4	0,4	2,4	$- \begin{smallmatrix} 0 \\ 0,2 \end{smallmatrix}$	2 to 40	7,5	10	0,4	$- \begin{smallmatrix} 0 \\ 0,2 \end{smallmatrix}$	1,6	0,4	R4
050	MJ5×0,8 – 4h6h	3,9	8,7	10	3,4		5	0,5	3		3 to 50	9	12	0,5		2	0,5	R5
060	MJ6×1 – 4h6h	4,6	10,7	12	4,2		6	0,7	3,6	$- \begin{smallmatrix} 0 \\ 0,3 \end{smallmatrix}$	3 to 60	10	14	0,7		2,4	0,6	R6
070	MJ7×1 – 4h6h	5,6	12,7	14	5,2		7		4,2		4 to 70	11	15			2,8	0,7	
080	MJ8×1 – 4h6h	6,6	14,7	16	6,2		8		4,8		4 to 80	11,5	16,5			3,2	0,8	R8
100	MJ10×1,25 – 4h6h	8,3	18,7	20	7,9		10	0,8	6		5 to 100	14,5	20,5	0,8		4	1	R10
120	MJ12×1,25 – 4h6h	10,3	22,7	24	9,8		12	0,9	7,2	6 to 120	16	22,5	0,9	$- \begin{smallmatrix} 0 \\ 0,3 \end{smallmatrix}$		4,8	1,2	R12

- 1) In accordance with ISO 5855-2
2) See ISO 286-2.
3) Increments:
1 for $L_1 \leq 30$
2 for $30 < L_1 \leq 100$
4 for $L_1 > 100$
4) In accordance with ISO 14275 or ISO 14276

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