
**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*



STANDARDSISO.COM : Click to view the full PDF of ISO 12261:2016



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Configuration and dimensions.....	1

STANDARDSISO.COM : Click to view the full PDF of ISO 12261:2016

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).

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).

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 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.

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*

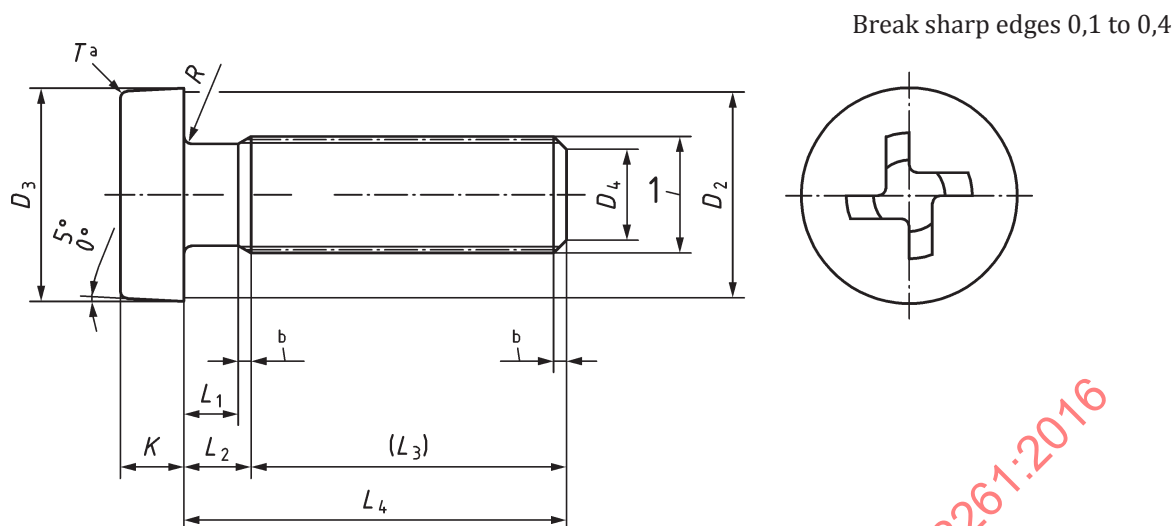
ISO 14275, *Aerospace — Drives, internal, offset cruciform, ribbed — Metric series*

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

3 Configuration and dimensions

See [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.



Key

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

Figure 1

Table 1

Diameter code	Thread ^a	D_1	D_2	D_3	D_4		K		L_1^{bcd}	L_2^{bcd}	L_3	L_4^d	R		T		Drive code ^e
		$\pm 0,13$	min.	$\begin{matrix} 0 \\ -0,3 \end{matrix}$	nom.	tol.	nom.	tol.	min.	max.		$\pm 0,3$	nom.	tol.	max.	min.	
040	MJ4×0,7 – 4h6h	3,54	6,7	8	3,0	$\begin{matrix} 0 \\ -0,5 \end{matrix}$	2,4	$\begin{matrix} 0 \\ -0,2 \end{matrix}$	0,4	2	14	16 to 56	0,4		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				18	22 to 84			2,4	0,6	
070	MJ7×1 – 4h6h	6,35	12,7	14	5,2		4,2		0,7	4	20	24 to 98	0,7		2,8	0,7	R6
080	MJ8×1 – 4h6h	7,35	14,7	16	6,2		4,8	$\begin{matrix} 0 \\ -0,3 \end{matrix}$			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	0,8		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	$\begin{matrix} 0 \\ -0,3 \end{matrix}$	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 for $L_4 \leq 100$
4 for $L_4 > 100$
e In accordance with ISO 14275 or ISO 14276.