



BSI Standards Publication

**Aerospace series — Screws, 100° countersunk
normal head, offset cruciform recess, close tolerance
normal shank, short thread, in titanium alloy,
anodized, MoS2 lubricated — Classification: 1 100
MPa (at ambient temperature)/315 °C**

National foreword

This British Standard is the UK implementation of EN 3381:2025. It supersedes BS EN 3381:1997, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2025
Published by BSI Standards Limited 2025

ISBN 978 0 539 27684 8

ICS 49.030.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2025.

Amendments/corrigenda issued since publication

Date	Text affected

English Version

Aerospace series - Screws, 100° countersunk normal head,
offset cruciform recess, close tolerance normal shank,
short thread, in titanium alloy, anodized, MoS2 lubricated -
Classification: 1 100 MPa (at ambient temperature)/315
°C

Série aéronautique - Vis à tête fraisée 100° normale, à
empreinte cruciforme déportée, tige normale à
tolérance serrée, filetage court, en alliage de titane,
anodisées, lubrifiées au MoS2 - Classification : 1 100
MPa (à température ambiante)/315 °C

Luft- und Raumfahrt - 100°-Senk-Passschraube mit
Flügelkreuzschlitz, kurzes Gewinde, aus
Titanlegierung, anodisiert, MoS2-geschmiert - Klasse: 1
100 MPa (bei Raumtemperatur)/315 °C

This European Standard was approved by CEN on 25 August 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents		Page
European foreword		3
1	Scope.....	4
2	Normative references.....	4
3	Terms and definitions	5
4	Required characteristics	5
4.1	Configuration – Dimensions – Masses	5
4.2	Tolerances of form and position	5
4.3	Materials	5
4.4	Surface treatment	5
5	Designation	8
6	Marking	8
7	Technical specification	9
7.1	General.....	9
7.2	Quality management system	9
7.3	Qualification of screws.....	9
8	Oversized bolts	9
Bibliography		10

European foreword

This document (EN 3381:2025) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 3381:1996.

This document includes the following significant technical changes with respect to EN 3381:1996:

- editorially updated;
- Clause 3 “Terms and definitions” added;
- SAE AMS4967 added;
- Table 3 “Drive Codes” updated;
- 7.2 “Quality management system” updated;
- 7.3 “Qualification of screws” updated.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.