

STN	Letectvo a kozmonautika Závitové vložky z drôtu so závitmi MJ a M Technická špecifikácia	STN EN 2943
		31 3556

Aerospace series - Insert, MJ and M screw threads, helical coil - Technical specification

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/24

Obsahuje: EN 2943:2024

Oznámením tejto normy sa ruší
STN EN 2943 (31 3556) z mája 2020

138547

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2943

March 2024

ICS 49.030.30

Supersedes EN 2943:2019

English Version

Aerospace series - Insert, MJ and M screw threads, helical
coil - Technical specification

Série aérospatiale - Filets rapporté, filetages MJ et M -
Spécification technique

Luft- und Raumfahrt - Draht-Gewindeeinsatz, MJ- und
M-Gewinde - Technische Lieferbedingungen

This European Standard was approved by CEN on 15 January 2024.

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

EN 2943:2024 (E)

Contents	Page
European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions.....	4
4 Quality assurance	6
4.1 Approval of manufacturers	6
4.2 Qualification	6
4.3 Acceptance.....	6
4.3.1 Purpose.....	6
4.3.2 Conditions.....	6
4.3.3 Responsibility	6
4.3.4 Inspection and test report	7
5 Requirements.....	7
Annex A (normative) Specification of maximum and minimum test bolts for the permanent set test.....	15
Annex B (normative) Assembly for reusability tests	17
Annex C (normative) Specification of test bolt for reusability test.....	18
Annex D (normative) Specification of spacer for reusability tests	19
Bibliography	21

European foreword

This document (EN 2943:2024) 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 September 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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 2943:2019.

This document includes the following significant technical changes with respect to EN 2943:2019:

- a) normative references updated;
- b) subclauses 4.1 and 4.2 updated;
- c) Table 1 “Technical requirements and test methods” revised;
- d) Table 3 “Test equipment” revised;
- e) Table 4 “Values of breakaway torque, self-locking torque and seating torque” and Table 5 “Values of breakaway torque, self-locking torque and seating torque” extended by more thread types;
- f) Annex A extended in accordance with the revised Table 4 and Table 5;
- g) document editorially revised.

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.

EN 2943:2024 (E)**1 Scope**

This document specifies the characteristics, qualification and acceptance requirements for helical coil screw thread inserts.

It is applicable whenever referenced.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2398, *Aerospace series — Heat resisting steel FE-PA2601 (X6NiCrTiMoV26-15) — R_m ≥ 900 MPa — Bars for machined bolts — D ≤ 25 mm*

EN 2945, *Aerospace series — Inserts, screw thread, helical coil, self-locking — Assembly procedure*

EN 3044, *Aerospace series — Installation holes for inserts, screw thread, helical coil, self-locking — Design standard*

EN 3219, *Aerospace series — Heat resisting nickel base alloy (NI-P100HT) — Cold worked and softened — Bar and wire for continuous forging or extrusion for fasteners — 3 mm ≤ D ≤ 30 mm*

EN 9138, *Aerospace Series — Quality Management Systems — Statistical Product — Acceptance Requirements*

ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

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

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

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

ISO 21920-3, *Geometrical product specifications (GPS) — Surface texture: Profile — Part 3: Specification operators*

koniec náhľadu – text d'alej pokračuje v platenej verzii STN