

BS EN 3777:2010



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Aerospace series — Pins, quick release, single and double acting — Technical specification

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

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ISBN 978 0 580 71449 8

ICS 49.030.20

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2010.

Amendments issued since publication

Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3777

October 2010

ICS 49.030.20

English Version

**Aerospace series - Pins, quick release, single and double acting
- Technical specification**

Série aérospatiale - Broches à démontage rapide, simple et
double action - Spécification technique

Luft- und Raumfahrt - Kugelsperrbolzen mit Zugauslösung
und Zug- Druckauslösung - Technische Lieferbedingungen

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Ref. No. EN 3777:2010: E

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Foreword

This document (EN 3777:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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1 Scope

This standard specifies the characteristics, qualification and acceptance requirements for quick release pins, single and double acting for aerospace applications.

It is applicable whenever referenced.

2 Normative references

The following referenced documents are indispensable for the application 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 2002-001, *Aerospace series — Metallic materials — Test methods — Part 001: Tensile testing at ambient temperature*

EN 2002-7, *Aerospace series — Metallic materials — Test methods — Part 7: Hardness test* ¹⁾

EN 3238, *Aerospace series — Metallic materials — Test method — Shear test for wires and rivets*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

NASM 1312, *Fastener test methods FSC 53GP* ²⁾

MIL-PRF-23827C, *Grease, aircraft and instrument, gear and actuator screw, NATO code number G-354* ³⁾

MIL-STD-810G, *Environmental engineering considerations and laboratory tests* ³⁾

1) Published as ASD-STAN Prestandard at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN) (www.asd-stan.org).

2) Published by: Aerospace Industries Association/ National Aerospace Standards (AIA/NAS) (www.aia.aerospace.org).

3) Published by: Department of Defense (DoD), <http://www.defenselink.mil/>.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

batch

lot

inspection batch

inspection lot

quick release pins of the same type, size, material and surface protection manufactured under the same conditions and presented for inspection of the same size

3.2

surface discontinuities

3.2.1

crack

break in the material which may extend in all directions and be intercrystalline or transcrystalline in character

3.2.2

pit

void, hole in the surface as caused, for example, by corrosion

3.2.3

score, scratch

open surface defect

3.2.4

seam

unwelded fold which appears as an open defect in the material

4 Classification

4.1 General

The quick release pins, single or double acting, can be manufactured with handles of different configuration.

4.2 Single acting pin

The release is obtained only by an axial push applied to the actuating button.

4.3 Double acting pin

The release is obtained only when the spindle has been moved to a release position by an axial push or pull on the actuating button or handle.

5 Requirements

See Table 1.