INTERNATIONAL STANDARD

ISO 3186

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Aerospace — Bolts, large bihexagonal head, normal shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes 1250 MPa to 1800 MPa — Dimensions

Aéronautique et espace — Vis à tête bihexagonale large, avec tige normale et filetage MJ court ou de longueur moyenne, en matériau métallique, revêtues ou non revêtues, des classes de résistance 1 250 MPa à 1 800 MPa — Dimensions



Foreword

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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

Commit, Aerospac International Standard ISO 3186 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 large bihexagonal head bolts, with close or large tolerance normal shank, and short or medium length MJ threads, in metallic material, coated or uncoated, with strength classes 1 250 MPa to 1 800 MPa.

It is intended for the drawing up 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 4095:1978, Fasteners for aerospace construction
— Bi-hexagonal wrenching configuration.

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.

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.