# INTERNATIONAL STANDARD

**ISO** 3185

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Aerospace — Bolts, normal bihexagonal head, normal shank, short or medium 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 bihexagonale normale, avec tige normale et filetages MJ courts ou de longueur moyenne, en matériau métallique, revêtues ou non revêtues, des classes de résistance inférieures ou égales à 1 100 MPa — Dimensions



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ISO 3185 was prepared by Technical committee ISO/TC 20, Aircraft and space vehicles, Subcommittee SC 4, Aerospace fastener systems.

This second edition cancels and replaces the first edition (ISO 3185:1993), which has been technically revised.

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Aerospace — Bolts, normal bihexagonal head, normal shank, short or medium 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 normal bihexagonal head bolts, with close or large tolerance normal shank and affert or medium 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 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.

ISO 286-2, ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts

ISO 3353-1, Aerospace — Lead and runout threads — Part : Rolled external threads

ISO 4095, Aerospace — Bihexagonal drives — Wrenching configuration — Metric series

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

### 3 Configuration and dimensions

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres. They are applicable after any coating (tolerance on shank diameter before coating is also specified for heat cured matrix coatings), but before the application of any lubricant.

Details of form not stated are left to the manufacturer's discretion.

Tolerances of form and position shall be as specified in ISO 7913 if not otherwise stated on product standard.

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