International Standard

# ISO 6549

# Road vehicles — Procedure for H- and R-point determination

*Véhicules routiers — Procédure de détermination des points H et R*

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# Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 39, *Ergonomics*.

This third edition cancels and replaces the second edition (ISO 6549:1999), which has been technically revised.

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The main changes are as follows:

— editorial changes.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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# Road vehicles — Procedure for H- and R-point determination

## 1 Scope

This document defines a three-dimensional H-point machine for use in the determination of the actual H-point and torso angle of a seat, for the purpose of comparing these measurements to the manufacturer's seating reference point and design torso angle. The three-dimensional H-point machine is intended to be used as a checking device for one designated seat position at a time and is not a device which measures or indicates an occupant's capabilities or comfort.

This document is applicable to any motor vehicle where:

a) the distance, vertically measured, between the operator heel point and the seating reference point is less than 550 mm,

b) the torso angle is greater than 5° rearward of vertical or where the attitude of the thigh centreline as indicated by the thigh bar is greater than 5° above the horizontal.

## 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.

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ISO 3833, *Road vehicles — Types — Terms and definitions*

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## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3833 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

**3.1**
**three-dimensional H-point machine**
device used for the determination of the *actual H-point* (3.2.2) and *actual torso angle* (3.3.2) in a vehicle

**3.2**
**H-point**
pivot centre of the torso and thigh of the *three-dimensional H-point machine* (3.1) which simulates the pivot centre of the human torso and thigh and is used for *actual H-point* (3.2.2) determination

Note 1 to entry: It is located on the centreplane of the device which is midway between the H-point sight buttons on either side of the H-point machine.

**3.2.1**
**seating reference point R-point**
**SgRP**
**design H-point**
manufacturer's intended location for *H-point* (3.2), which is specifically designated as R-point or SgRP, and which:

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