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Welding and allied processes - Welding positions (ISO 6947:2019)

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

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**Welding and allied processes - Welding positions (ISO
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(ISO 6947:2019)Schweißen und verwandte Prozesse -
Schweißpositionen (ISO 6947:2019)

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EN ISO 6947:2019 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 6947:2019) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding and allied processes" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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.

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Endorsement notice

The text of ISO 6947:2019 has been approved by CEN as EN ISO 6947:2019 without any modification.

INTERNATIONAL STANDARD

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Welding and allied processes — Welding positions

Soudage et techniques connexes — Positions de soudage



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Welding positions	2
4.1 Main welding positions.....	2
4.2 Welding positions and allowable deviations for testing.....	5
4.3 Welding positions and ranges in production.....	5
5 Designation	6
Annex A (informative) Limits of the slope of a weld axis and the rotation of the weld face about the weld axis for welding positions in production welds	8
Annex B (informative) Comparison of this document and US designation systems for welding positions	15
Bibliography	19

ISO 6947:2019(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 documents 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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 7, *Representation and terms*.

This fourth edition cancels and replaces the third edition (ISO 6947:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

- [Figure 1](#) and [Figure 2](#) have been revised;
- the concept of a special test position which is not covered by defined test positions has been introduced;
- editorial corrections/improvements have been made.

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. Official interpretations of TC 44 documents, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

Introduction

This document specifies positions for standard discrete test piece orientation, e.g. PA, PB, H-L045, that have been included in this document since the third edition (ISO 6947:2011).

Since the third edition was published, positions for production welding are also defined. These positions are flat, horizontal, vertical, and overhead. Unlike discrete testing positions, these positions are contiguous.

Welding position are not dependent on the geometrical arrangement of the joint, e.g. butt or fillet joint, or that of the semi-finished product. Welds of all types and in all directions are covered.

The direction of welding (i.e. upwards or downwards) can also contribute to defining welding positions.

The main positions have been given symbols which can easily be used for designation purposes; these symbols were not derived from any particular language.

The concept of a special test position, not covered by the existing and well-defined positions, has been included so that testing can be carried out in positions that do not meet the standard requirements.

The relationship between testing positions and production welding positions is specified elsewhere, e.g. in the ISO 9606 series or ISO 15614 series.

Welding and allied processes — Welding positions

1 Scope

This document defines welding positions for testing and production, for butt and fillet welds, in all product forms.

[Annex A](#) gives examples of the limits of the slope of a weld axis and the rotation of the weld face about the weld axis for welding positions in production welds.

[Annex B](#) gives a comparison of this document and US designation systems for welding positions.

2 Normative references

There are no normative references in this document.

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