



SLOVENSKI STANDARD SIST EN ISO 23783-1:2023

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Avtomatizirani sistemi za ravnanje s tekočinami - 1. del: Slovar in splošne zahteve (ISO 23783-1:2022)

Automated liquid handling systems - Part 1: Vocabulary and general requirements (ISO 23783-1:2022)

Automatisierte Flüssigkeitsdosiersysteme - Teil1: Terminologie und allgemeine Anforderungen (ISO 23783-1:2022)

Systèmes automatisés de manipulation de liquides - Partie 1: Vocabulaire et exigences générales (ISO 23783-1:2022)

Ta slovenski standard je istoveten z: EN ISO 23783-1:2023

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Automated liquid handling systems - Part 1: Vocabulary and general requirements (ISO 23783-1:2022)

Systèmes automatisés de manipulation de liquides -
Partie 1: Vocabulaire et exigences générales (ISO
23783-1:2022)

Automatisierte Flüssigkeitsdosiersysteme - Teil1:
Terminologie und allgemeine Anforderungen (ISO
23783-1:2022)

This European Standard was approved by CEN on 25 September 2023.

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European foreword

The text of ISO 23783-1:2022 has been prepared by Technical Committee ISO/TC 48 "Laboratory equipment" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 23783-1:2023 by Technical Committee CEN/TC 332 "Laboratory equipment" 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of an identical text or by endorsement, at the latest by April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

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INTERNATIONAL STANDARD

ISO
23783-1

First edition
2022-08

Automated liquid handling systems — Part 1: Vocabulary and general requirements

*Systèmes automatisés de manipulation de liquides —
Partie 1: Vocabulaire et exigences générales*

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 48, *Laboratory equipment*.

This first edition of ISO 23783-1, together with ISO 23783-2 and ISO 23783-3, cancels and replaces IWA 15:2015.

A list of all parts in the ISO 23783 series can be found on the ISO website.

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.

Introduction

Globalization of laboratory operations requires standardized practices for operating automated liquid handling systems (ALHS), communicating test protocols, as well as analysing and reporting of performance parameters. IWA 15:2015 was developed to provide standardized terminology, test protocols, and analytical methods for reporting test results. The concepts developed for, and described in, IWA 15 form the foundation of the ISO 23783 series.

Specifically, this document addresses the needs of:

- users of ALHS, as a basis for calibration, verification, validation, optimization, and routine testing of trueness and precision;
- manufacturers of ALHS, as a basis for quality control, communication of acceptance test specifications and conditions, and issuance of manufacturer's declarations (where appropriate);
- test houses and other bodies, as a basis for certification, calibration, and testing.

The tests established in this document should be carried out by trained personnel.

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