STN

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Additive manufacturing - Material extrusion based additive manufacturing of plastic materials - Part 2: Process equipment (ISO/ASTM 52903-2:2020)

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

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Additive manufacturing - Material extrusion based additive manufacturing of plastic materials - Part 2: Process equipment (ISO/ASTM 52903-2:2020)

Fabrication additive - Fabrication additive de matériaux plastiques à base d'extrusion de matière -Partie 2: Équipement du procédé (ISO/ASTM 52903-2:2020) Additive Fertigung - Materialextrusionsbasierende additive Fertigungsverfahren für Kunststoffe - Teil 2: Prozesszubehör (ISO/ASTM 52903-2:2020)

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EN ISO/ASTM 52903-2:2020 (E)

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European foreword

This document (EN ISO/ASTM 52903-2:2020) has been prepared by Technical Committee ISO/TC 261 "Additive manufacturing" in collaboration with Technical Committee CEN/TC 438 "Additive Manufacturing" the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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INTERNATIONAL STANDARD

ISO/ASTM 52903-2

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Additive manufacturing — Material extrusion-based additive manufacturing of plastic materials —

Part 2: **Process equipment**

Fabrication additive — Fabrication additive de matériaux plastiques à base d'extrusion de matière —

Partie 2: Équipement de processus



ISO/ASTM 52903-2:2020(E)



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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).

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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 ISO/TC 261, *Additive manufacturing*, in cooperation with ASTM F 42, on the basis of a partnership agreement between ISO and ASTM International with the aim to create a common set of ISO/ASTM standards on additive manufacturing.

This first edition of ISO/ASTM 52903-2 cancels and replaces ASTM 20196-2.

A list of all parts in the ISO/ASTM 52903 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.

ISO/ASTM 52903-2:2020(E)

Introduction

The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, each system needs to be used independently of the other. Combining values from the two systems can result in non-conformance with this document.

INTERNATIONAL STANDARD

Additive manufacturing — Material extrusion-based additive manufacturing of plastic materials —

Part 2:

Process equipment

1 Scope

This document describes a method for defining requirements and assuring component integrity for plastic parts created using material extrusion based additive manufacturing processes. It relates to the process, equipment and operational parameters. Processes include all material extrusion based additive manufacturing processes.

This document is intended for use by AM users and customers procuring such parts.

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.

ISO/ASTM 52900:—1), Additive manufacturing — General principles — Fundamentals and vocabulary

ISO/ASTM 52903-1, Additive manufacturing — Material extrusion-based additive manufacturing of plastic materials — Part 1: Feedstock materials

ISO/ASTM 52921, Standard terminology for additive manufacturing — Coordinate systems and test methodologies

ASTM F3091/F3091M, Standard Specification for Powder Bed Fusion of Plastic Materials

koniec náhľadu – text ďalej pokračuje v platenej verzii STN